



**South Coast Assessment Bulletin
2019 Creel Survey Update
Recreational Fishery South Coast Tidal Waters**

Overview:

This bulletin provides a final review of the 2019 estimates of recreational fishing effort and fin-fish catch by month in the marine waters of southern British Columbia (Pacific Fishery Management Areas 11 through 29 and 121 to 127). These estimates are generated from data collected by DFO's South Coast Creel Survey, paper and electronic logbooks and lodge manifests. A brief overview of the survey, the study area and methods used to collect data and generate these estimates are provided in the first bulletin of 2019 available on the Federal Science Library

<http://science-libraries.canada.ca/eng/home/>

The search term "South Coast assessment bulletin, creel survey" is helpful to find the bulletins

The Department of Fisheries and Oceans would like to take this opportunity to thank everyone who took the time to participate in our recreational catch estimate programs in 2019. The data you provided during creel survey interviews, recorded in logbooks, or was submitted for you by fishing lodge staff are very much appreciated - Thank you!

Recreational Fishery Links:

It is your responsibility to know the current fishing regulations prior to fishing. A listing of recreational fishing regulations can be viewed at the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage:

<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/index-eng.html>

In addition, Fisheries and Oceans fishery notices of in-season regulation updates can be viewed at:

<http://notices.dfo-mpo.gc.ca/fns-sap/index-eng.cfm>

Creel Survey Data:

The number of angling trip interviews and effort flights conducted by month and area are presented in Table 1 and 2, respectively. Estimates of recreational effort, measured in boat trips, by area and month are presented in Table 4. A map of Pacific Fishery Management Areas is in the British Columbia Tidal Waters Sport Fishing Guide.

Recreational Catch Estimates:

Final post season estimates of kept and released catch for key finfish species (or groups of species) are presented in a series of Tables attached to this document. Each of the tables presents catch estimates partitioned by both creel area and month as well as rolling up the estimates into regional totals. The regional groupings are 1.) North Island (PFMAs 11, 111, 12) 2.) West Coast of Vancouver Island - WCVI (PFMAs 20-1 to 20-4, 21, 121, 23- 27, 123-127), 3.) Strait of Georgia (PFMAs 13 - 18, 19-7 to 19-12, 28, 29) and 4.) Juan de Fuca (PFMAs 19-1 to 6, 20-5). In addition these tables sum the 2019 estimates by creel area and regional grouping and provide the 5-year average estimate for the same areas for comparison. The tables containing blank cells indicate areas and times not surveyed. Percent standard error (%SE, a measure of uncertainty) is presented for estimates where it is calculated. Tables present kept and released catch estimates for: Chinook (Tables 5 and 6; Chinook kept catch is also partitioned to aggregate abundance-based management (AABM) and individual stock-based management (ISBM) groupings in Table 4), Coho (7 and 8), Chum (9 and 10), Pink (11 and 12), Sockeye (13 and 14), Halibut (15 and 16), Lingcod (17 and 18), combined China, Copper, Quillback, Tiger and Yelloweye rockfish (19 and 20), and other rockfish (including identified rockfish other than the five in Table 19 and 20 as well as those unidentified to species; Tables 21 and 22).

Contacts:

For additional information on the South Coast Creel Survey Programs, please contact:

Johnstone Strait and North Island Surveys (PFMA's 11, 12, 27, 111 & 127)

Pieter Van Will - Program Head, Johnstone Strait Salmon Stock Assessment
Pieter.VanWill@dfo-mpo.gc.ca
250-949-9273

Strait of Georgia Survey (PFMA's 13 – 20, 28 & 29)

Kevin Pellett – Program Head, Strait of Georgia Salmon Stock Assessment
Patrik.Zetterberg@dfo-mpo.gc.ca
250-756-7273

West Coast Vancouver Island Survey (PFMA's 20 – 26 & 121 – 126)

Karin Mathias - Biologist, WCVI Salmon Stock Assessment
Karin.Mathias@dfo-mpo.gc.ca
250-756-7290

Table 1: Number of Creel Survey Interviews by Pacific Fishery Management Area (PFMA), 2019.

PFMA	Jan- uary	Febru- ary	March	April	May	June	July	August	Septem- ber	Octo- ber	Novem- ber	Decem- ber	Total	5 Yr. Avg.
Area 11						69	153	49					271	252
Area 111						3	2	3					8	2
Area 12						192	595	685					1472	2100
Area 13					45	65	216	367	67	10			770	1245
Area 14					41	79	207	228	163	27			745	711
Area 15					1	28	70	87	26	1			213	45
Area 16					2	5	13	38	10				68	10
Area 17					88	90	270	181	81				710	390
Area 18			4	5	29	19	13	41	18	3			132	219
Area 19 (GS)			16	16	23	15	21	59	13	2			165	301
Area 19 (JDF)				81	52	52	36	179	50	44			494	1137
Area 20 (East)				46	53	42	91	239	143	76			690	1625
Area 20 (West)					1	91	91	508	150				841	1126
Area 21						60	68	36	8				172	36
Area 121						72	93	63	9				237	277
Area 23 (Alberni Canal)						165	62	272	79				578	1009
Area 23 (Barkley)						142	232	409	32				815	822
Area 123						12	30	56	1				99	586
Area 24						107	167	266	34				574	162
Area 124						31	44	54	10				139	292
Area 25						73	512	531					1116	1333
Area 125						4	44	49					97	306
Area 26						5	17	25					47	18
Area 126						1	13	51					65	119
Area 27						85	226	254					565	705
Area 127						28	74	120					222	352
Area 28						33	72	45	25				175	179
Area 29						45	34	115	75				269	229
Juan de Fuca	0			127	105	94	127	418	193	120	0	0	1184	2762
North Island	0	0	0	0	0	264	750	737	0	0	0	0	1751	2354
Strait of Georgia	0	0	20	21	229	379	916	1161	478	43	0	0	3247	3329
WCVI	0	0	0	0	1	876	1673	2694	323	0	0	0	5567	7143
All Areas			20	148	335	1613	3466	5010	994	163			11749	15588

Table 2: Number of aerial and on-water effort counts by Pacific Fishery Management Area (PFMA), 2019.

PFMA	January	February	March	April	May	June	July	August	September	October	November	December	Total	5 Yr. Avg.
Area 11						3	6	6					15	20
Area 111						3	6	5					14	
Area 12						4	6	6					16	21
Area 13					6	8	12	11	8	6			51	45
Area 14					6	8	12	11	8	6			51	39
Area 15						8	12	11	8	6			45	13
Area 16						8	11	10	7	6			42	13
Area 17					5	8	11	10	8				42	18
Area 18					5	8	11	10	8				42	18
Area 19 (GS)				6	6	8	11	10	8	6			55	64
Area 19 (JDF)				6	6	8	11	10	8	6			55	64
Area 20 (East)				6	4	8	11	7	7	6			49	60
Area 20 (West)						7	7	7	5				26	28
Area 21						8	8	7	5				28	26
Area 121						8	8	7	5				28	25
Area 23 (Alberni Canal)						9	9	9	6				33	42
Area 23 (Barkley)						9	9	9	6				33	30
Area 123						9	9	8	4				30	27
Area 24						9	9	7	4				29	27
Area 124						9	9	7	4				29	27
Area 25						5	8	10					23	21
Area 125						6	8	9					23	17
Area 26						5	6	7					18	15
Area 126						5	6	7					18	15
Area 27						7	9	7					23	20
Area 127						4	6	7					17	18
Area 28					2	8	11	10	8				39	32
Area 29					3	8	11	10	8				40	32
Juan de Fuca				6	5	8	11	9	8	6			52	62
North Island						3	6	6					15	20
Strait of Georgia				6	5	8	11	10	8	6			45	32
WCVI						7	8	8	5				26	24

Table 3: Final recreational kept Chinook catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019, divided into Aggregate Abundance-based Management (AABM) and Individual Stock-based Management (ISBM) groupings.

PFMA	AABM					ISBM					Total
	June	July	August	September	Total	June	July	August	September	Total	
Area 11						1766	1265	562		3593	3593
Area 111						1730	1426	258		3414	3414
Area 12							1274	2697	166 ¹	4137	4137
Area 13							6024	9527	2476	18027	18027
Area 14							3593	3651	1230	8474	8474
Area 15							1590	1442	736	3768	3768
Area 16							1066 ¹	492		1558	1558
Area 17							862	735	406	2003	2003
Area 18								319		319	319
Area 19 (GS)								264		264	264
Area 19 (JDF)								1811	285	2096	2096
Area 20 (East)								8320	1725	10045	10045
Area 20 (West)							869	6741	945	8555	8555
Area 21	168	341			509			931		931	1440
Area 121		2043	1978		4021						4021
Area 23 (Alberni Canal)		152			152			5442	134	5576	5728
Area 23 (Barkley)	5869	8212			14081			12957	1928	14885	28966
Area 123		4055	3305		7360						7360
Area 24	324	1440			1764			1246		1246	3010
Area 25	511				511	718	8038	5230 ⁴	325 ¹	14311	14822
Area 125		478	340		818						818
Area 26	875 ²				875		2050 ²	1106 ²		3156	4031
Area 126		644 ²	1672 ²		2316						2316
Area 27	1036				1036		2343	889	106 ¹	3338	4374
Area 127		143	670		813						813
Area 28								727	198	925	925
Area 29							242	7308	2674	10224	10224
Juan de Fuca								10131	2010	12141	12141
North Island						3496	3965	3517	166	11144	11144
Strait of Georgia							13377	24465	7720	45562	45562
WCVI	8783	17508	7965		34256	718	13300	34542	3438	51998	86254
All Areas	8783	17508	7965		34256	4214	30642	72655	13334	120845	155101

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 4: Final recreational Effort estimates (boat trips) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg		
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.		
Area 11									31 ¹		677	(21%)	647	(23%)	454	(43%)	31 ¹									1840	(16%)	1661	
Area 111											620	(63%)	613	(13%)	154	(36%)											1387	(29%)	6
Area 12									188 ¹		1382	(31%)	3845	(27%)	5027	(18%)	764 ¹									11206	(14%)	13841	
Area 13									867	(17%)	1969	(13%)	6784	(5%)	7869	(5%)	2845	(16%)	376	(19%)						20710	(4%)	31186	
Area 14									747	(19%)	1266	(13%)	5419	(5%)	7607	(8%)	2060	(29%)	548	(24%)						17647	(5%)	19280	
Area 15									514 ¹		467	(14%)	1828	(9%)	2017	(10%)	1255	(33%)								6081	(9%)	7883	
Area 16									561 ¹		726 ¹		2613 ¹		2960	(12%)	344	(41%)								7204	(11%)	9169	
Area 17									1009	(26%)	1267	(15%)	2561	(14%)	3261	(11%)	1033	(19%)								9131	(7%)	14235	
Area 18									811	(19%)	243	(14%)	358	(10%)	1079	(9%)	532	(12%)								3023	(7%)	7396	
Area 19 (GS)							263	(27%)	378	(25%)	237	(16%)	348	(16%)	784	(10%)	446	(20%)	45	(80%)						2501	(7%)	3683	
Area 19 (JDF)							853	(29%)	1907	(16%)	982	(23%)	1458	(19%)	2849	(12%)	3155	(17%)	469	(32%)						11673	(7%)	12956	
Area 20 (East)							593	(24%)	885	(9%)	1038	(28%)	3548	(10%)	11070	(9%)	6617	(15%)	1655	(35%)						25406	(6%)	29756	
Area 20 (West)											237	(12%)	1041	(17%)	3502	(8%)	1441	(33%)								6221	(9%)	6822	
Area 21									115 ¹		112	(20%)	134	(13%)	287	(28%)	63	(59%)								711	(16%)	677	
Area 121									126 ¹		234	(50%)	1698	(4%)	609	(34%)	143	(40%)								2810	(9%)	2729	
Area 23 (Alberni Canal)									132 ¹		1479	(12%)	564	(17%)	4689	(10%)	1044									7908	(7%)	11862	
Area 23 (Barkley)									360 ¹		3466	(10%)	6337	(6%)	9544	(5%)	2744									22451	(3%)	16011	
Area 123									136 ¹		104	(21%)	1594	(41%)	1635	(37%)	335									3804	(24%)	4184	
Area 24									86 ¹		327	(21%)	1280	(15%)	1104	(22%)	126									2923	(11%)	1968	
Area 124									36 ¹		349	(39%)	149	(32%)	340	(6%)	35									909	(17%)	3025	
Area 25									263 ¹		1236	(16%)	5042	(6%)	5748	(10%)	896 ¹									13185	(7%)	12226	
Area 125									125 ¹		167	(33%)	487	(34%)	343	(22%)	104 ¹									1226	(19%)	2512	
Area 26									7 ¹		616 ²		1803 ²		1312 ²		45 ¹								3783		1496		
Area 126									11 ¹		274 ²		1677 ²		901 ²		24 ¹								2887		1801		
Area 27									148 ¹		537	(13%)	1516	(9%)	1537	(9%)	431 ¹									4169	(6%)	3299	
Area 127									85 ¹		167	(35%)	442	(11%)	463	(29%)	64 ¹									1221	(14%)	1947	
Area 28									633 ¹		441	(10%)	939	(10%)	1167	(12%)	1132	(33%)								4312	(11%)	9073	
Area 29									718 ¹		1023	(13%)	1744	(10%)	7253	(16%)	4017	(25%)								14755	(11%)	18734	
Juan de Fuca							1446	(19%)	2792	(11%)	2020	(18%)	5006	(9%)	13919	(8%)	9772	(12%)	2124	(28%)						37079	(5%)	42712	
North Island							219		2679	(22%)	5105	(20%)	5635	(16%)	795											14433	(11%)	15508	
Strait of Georgia							263	(27%)	6238	(10%)	7639	(6%)	22594	(3%)	33997	(4%)	13664	(10%)	969	(16%)						85364	(3%)	120638	
WCVI									1630		9305	(6%)	23764	(4%)	32014	(4%)	7495	(8%)								74208	(3%)	70556	
All Areas							1709	(17%)	10879	(8%)	21643	(5%)	56469	(3%)	85565	(3%)	31726	(6%)	3093	(20%)						211084	(2%)	249414	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 5: Final recreational Kept Chinook catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.
Area 11											1766	(24%)	1265	(20%)	562	(39%)									3593	(15%)	3818
Area 111											1730	(61%)	1426	(14%)	258	(47%)									3414	(32%)	
Area 12													1274	(30%)	2697	(16%)	166 ¹							4137	(15%)	7726	
Area 13													6024	(8%)	9527	(10%)	2476	(27%)							18027	(7%)	26249
Area 14													3593	(11%)	3651	(13%)	1230	(24%)	104	(35%)				8578	(8%)	9098	
Area 15													1590	(19%)	1442	(19%)	736	(52%)							3768	(15%)	4800
Area 16													1066 ¹		492	(54%)								1558	(54%)	2764	
Area 17													862	(15%)	735	(23%)	406	(41%)						2003	(13%)	6012	
Area 18															319	(18%)								319	(18%)	1325	
Area 19 (GS)															264	(30%)								264	(30%)	380	
Area 19 (JDF)															1811	(13%)	285	(46%)						2096	(13%)	3863	
Area 20 (East)															8320	(11%)	1725	(23%)						10045	(10%)	17103	
Area 20 (West)													869	(18%)	6741	(8%)	945	(33%)						8555	(8%)	7448	
Area 21											168	(17%)	341	(12%)	931	(22%)								1440	(15%)	1533	
Area 121													2043	(16%)	1978	(21%)								4021	(13%)	10131	
Area 23 (Alberni Canal)													152	(39%)	5442	(12%)	134	(30%)						5728	(12%)	3183	
Area 23 (Barkley)										172 ¹	5869	(17%)	8212	(9%)	12957	(6%)	1928	(25%)						29138	(5%)	16091	
Area 123													4055	(35%)	3305	(33%)								7360	(24%)	11310	
Area 24											324	(20%)	1440	(13%)	1246	(31%)								3010	(15%)	2223	
Area 124																											7645
Area 25										113 ¹	1229	(16%)	8038	(8%)	5230	(11%)	325 ¹							14935	(7%)	14153	
Area 125													478	(53%)	340	(36%)								818	(34%)	3349	
Area 26											875 ²		2050 ²		1106 ²									4031		2131	
Area 126													644 ²		1672 ²									2316		4856	
Area 27											1036	(13%)	2343	(10%)	889	(9%)	106 ¹							4374	(6%)	2837	
Area 127													143	(20%)	670	(25%)								813	(21%)	2537	
Area 28															727	(22%)	198	(54%)						925	(21%)	1590	
Area 29													242	(31%)	7308	(20%)	2674	(33%)						10224	(17%)	5571	
Juan de Fuca															10131	(9%)	2010	(20%)						12141	(9%)	20966	
North Island											3496	(33%)	3965	(13%)	3517	(14%)	166							11144	(12%)	11544	
Strait of Georgia													13377	(6%)	24465	(8%)	7720	(16%)	104	(35%)				45666	(5%)	57788	
WCVI										285		9501	(12%)	30808	(6%)	42507	(5%)	3438	(19%)					86539	(4%)	89428	
All Areas										285		12997	(13%)	48150	(4%)	80620	(4%)	13334	(11%)	104	(35%)			155490	(3%)	179726	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 6: Final recreational Released Chinook catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.
Area 11											546	(30%)	525	(46%)	208	(65%)									1279	(25%)	1148
Area 111											587	(36%)	406	(20%)	38	(102%)									1031	(22%)	
Area 12											1121	(49%)	5885	(19%)	5315	(20%)	50 ¹								12371	(13%)	9542
Area 13										561	(40%)	6287	(30%)	18214	(9%)	11082	(9%)	2244	(31%)	102	(86%)				38490	(7%)	24422
Area 14										1579	(28%)	4533	(16%)	11818	(13%)	8379	(18%)	2392	(42%)	915	(33%)				29616	(9%)	17469
Area 15										509 ¹		1090	(20%)	1839	(28%)	2923	(20%)	1571	(41%)						7932	(14%)	713
Area 16										115 ¹		1305 ¹		1285 ¹		4780	(63%)	375	(47%)						7860	(59%)	253
Area 17										3567	(48%)	3770	(18%)	17707	(8%)	3793	(22%)	2037	(33%)						30874	(8%)	9502
Area 18										86	(58%)	98	(45%)	133	(56%)	905	(16%)	292	(54%)						1514	(16%)	797
Area 19 (GS)							21	(128%)	38	(90%)	204	(36%)	187	(79%)	916	(24%)	226	(93%)	9	(89%)					1601	(22%)	688
Area 19 (JDF)							141	(74%)	1093	(51%)	413	(16%)	1253	(20%)	1468	(21%)	567	(42%)	118	(64%)					5053	(15%)	2962
Area 20 (East)							172	(60%)	200	(45%)	1567	(34%)	3985	(16%)	6787	(15%)	2623	(27%)	389	(57%)					15723	(10%)	20234
Area 20 (West)											705	(43%)	1017	(27%)	2074	(15%)	174	(44%)							3970	(13%)	3900
Area 21										2 ¹		52	(29%)	53	(22%)										107	(18%)	218
Area 121										2 ¹		137	(77%)	1061	(30%)	149	(51%)								1349	(26%)	5940
Area 23 (Alberni Canal)											7	(113%)	128	(59%)	406	(33%)	47	(48%)							588	(27%)	622
Area 23 (Barkley)										33 ¹		8051	(18%)	18235	(10%)	10571	(13%)	842	(47%)						37732	(7%)	21190
Area 123											2		4136	(53%)	2341	(51%)									6479	(39%)	11216
Area 24										1 ¹		83	(28%)	474	(19%)	347	(21%)	8	(49%)						913	(13%)	962
Area 124										7 ¹			29	(145%)										36	(145%)	4347	
Area 25										30 ¹		912	(78%)	6149	(15%)	3591	(15%)	55 ¹							10737	(12%)	10021
Area 125										17 ¹		23	(349%)	53	(59%)	69	(47%)								162	(63%)	1621
Area 26											685 ²		1019 ²		452 ²										2156		1278
Area 126													174 ²		272 ²										446		2225
Area 27										31 ¹		325	(19%)	698	(11%)	1166	(18%)								2220	(11%)	1784
Area 127										21 ¹			90	(55%)	107	(42%)									218	(34%)	888
Area 28										426 ¹		285	(31%)	210	(34%)	82	(46%)	283	(61%)						1286	(24%)	609
Area 29										629 ¹		1417	(24%)	2223	(24%)	7690	(22%)	1516	(40%)						13475	(15%)	3548
Juan de Fuca							313	(47%)	1293	(44%)	1980	(27%)	5238	(13%)	8255	(13%)	3190	(24%)	507	(46%)					20776	(8%)	23196
North Island											2254	(27%)	6816	(17%)	5561	(19%)	50								14681	(12%)	10690
Strait of Georgia							21	(128%)	7510	(31%)	18989	(12%)	53616	(5%)	40550	(10%)	10936	(15%)	1026	(31%)					132648	(5%)	58001
WCVI										144		10982	(16%)	33316	(10%)	21545	(9%)	1126	(38%)						67113	(6%)	66211
All Areas							334	(44%)	8947	(26%)	34205	(9%)	98986	(4%)	75911	(6%)	15302	(12%)	1533	(26%)					235218	(3%)	159506

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 7: Final recreational Kept Coho catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	
Area 11															163	(63%)									163	(63%)	851	
Area 111																												
Area 12													1484	(26%)	367	(20%)									1851	(21%)	5726	
Area 13													293	(27%)	263	(23%)	128	(57%)							684	(18%)	5720	
Area 14											194	(37%)	2151	(25%)	569	(25%)	113	(60%)							3027	(19%)	3798	
Area 15																	144	(87%)							144	(87%)	981	
Area 16													167 ¹												167		310	
Area 17											246	(44%)	301	(27%)	380	(30%)	121	(53%)							1048	(18%)	1094	
Area 18																											118	
Area 19 (GS)																											114	
Area 19 (JDF)																			168	(48%)					168	(48%)	327	
Area 20 (East)											548	(55%)	169	(75%)	1497	(24%)	3966	(22%)	2242	(28%)					8422	(14%)	10449	
Area 20 (West)															330	(33%)	1052	(27%)							1382	(22%)	1664	
Area 21																											394	
Area 121											150	(64%)	4902	(14%)	1698	(44%)									6750	(15%)	4852	
Area 23 (Alberni Canal)															343	(28%)	120	(30%)							463	(22%)	997	
Area 23 (Barkley)											341	(44%)	6009	(9%)	5321	(9%)	828	(45%)							12499	(7%)	6642	
Area 123													679	(46%)	1467	(57%)									2146	(41%)	5456	
Area 24													1738	(21%)	707	(52%)	125	(15%)							2570	(20%)	1364	
Area 124																											1543	
Area 25											304	(34%)	2793	(12%)	3068	(11%)	294 ¹							6459	(8%)	3631		
Area 125																	172 ¹							172		711		
Area 26											130 ²														130		1093	
Area 126																											1037	
Area 27											212	(12%)	1452	(15%)	1978	(12%)	348 ¹							3990	(9%)	4587		
Area 127																											1545	
Area 28													108	(51%)			190	(64%)							298	(45%)	1144	
Area 29													190	(44%)	250	(53%)	251	(56%)							691	(30%)	873	
Juan de Fuca											548	(55%)	169	(75%)	1497	(24%)	3966	(22%)	2410	(26%)					8590	(14%)	10776	
North Island													1484	(26%)	530	(24%)									2014	(20%)	6577	
Strait of Georgia											440	(30%)	3210	(19%)	1462	(16%)	947	(27%)							6059	(11%)	14152	
WCVI											1137	(21%)	17573	(6%)	14912	(9%)	2939	(22%)							36561	(5%)	35517	
All Areas											2125	(19%)	22436	(6%)	18401	(8%)	7852	(14%)	2410	(26%)					53224	(4%)	67021	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 8: Final recreational Released Coho catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE		
Area 11											7	(163%)	10	(123%)	111	(77%)									128	(68%)	186	
Area 111											19	(170%)	17	(71%)	19	(96%)										55	(71%)	
Area 12											128	(89%)	811	(22%)	2995	(21%)	89 ¹								4023	(17%)	5375	
Area 13											495	(34%)	1944	(15%)	4076	(14%)	588	(25%)							7103	(10%)	19103	
Area 14										88	(123%)	1251	(27%)	6081	(18%)	4991	(24%)	1940	(44%)	18	(72%)				14369	(13%)	11966	
Area 15											1		364	(39%)	659	(44%)	9	(155%)							1033	(31%)	2059	
Area 16											85 ¹		256 ¹		332	(49%)	254	(71%)							927	(42%)	1421	
Area 17										133	(43%)	1140	(34%)	1683	(13%)	1807	(21%)	403	(39%)						5166	(12%)	3850	
Area 18															643	(29%)									643	(29%)	134	
Area 19 (GS)																	57	(104%)							57	(104%)	14	
Area 19 (JDF)													360	(31%)	132	(50%)	1441	(40%)	184	(66%)					2117	(28%)	632	
Area 20 (East)											597	(39%)	1231	(40%)	2789	(22%)	19556	(20%)	1657	(64%)					25830	(16%)	19128	
Area 20 (West)											314	(59%)	147	(56%)	653	(27%)	2976	(41%)							4090	(30%)	2608	
Area 21											72	(67%)	60	(76%)	34	(68%)									166	(42%)	150	
Area 121											263	(74%)	11876	(15%)	3969	(39%)	98	(124%)							16206	(15%)	5680	
Area 23 (Alberni Canal)															18	(102%)									18	(102%)	103	
Area 23 (Barkley)											148	(67%)	6891	(16%)	2175	(16%)									9214	(13%)	2328	
Area 123													2919	(67%)	3603	(62%)									6522	(46%)	9629	
Area 24											12	(68%)	863	(40%)	508	(42%)	37	(39%)							1420	(29%)	768	
Area 124													1	(464%)	7	(120%)									8	(120%)	2361	
Area 25											59	(111%)	665	(25%)	1086	(20%)	138 ¹								1948	(15%)	1779	
Area 125										61 ¹		71	(94%)	59	(52%)										191	(56%)	1469	
Area 26											23 ²		6 ²		63 ²		8 ¹								100		199	
Area 126															47 ²		17 ¹								64		1251	
Area 27											21	(25%)	761	(16%)	886	(16%)	67 ¹								1735	(11%)	2052	
Area 127											2		275	(48%)	444	(54%)	8 ¹								729	(38%)	1580	
Area 28											61	(54%)	142	(34%)	66	(53%)									269	(25%)	659	
Area 29											278	(42%)	822	(29%)	3446	(21%)	271	(64%)							4817	(16%)	1337	
Juan de Fuca											597	(39%)	1591	(32%)	2921	(22%)	20997	(19%)	1841	(58%)					27947	(15%)	19760	
North Island											154	(77%)	838	(21%)	3125	(20%)	89								4206	(16%)	5560	
Strait of Georgia										221	(56%)	3311	(17%)	11292	(11%)	16020	(10%)	3522	(26%)	18	(72%)				34384	(7%)	40544	
WCVI										61		914	(33%)	24535	(12%)	13552	(21%)	3349	(39%)						42411	(10%)	31955	
All Areas										282	(56%)	4976	(14%)	38256	(8%)	35618	(9%)	27957	(15%)	1859	(57%)				108948	(6%)	98135	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 9: Final recreational Kept Chum catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	
Area 11																									0		42	
Area 111													2	(141%)												2	(141%)	
Area 12													5	(116%)	7	(118%)										12	(84%)	147
Area 13															141	(74%)				239	(81%)					380	(58%)	1257
Area 14																										0		14
Area 15																												
Area 16																												513
Area 17																	30	(96%)								30	(96%)	42
Area 18																												
Area 19 (GS)																												4
Area 19 (JDF)																												32
Area 20 (East)																	50	(103%)								50	(103%)	85
Area 20 (West)																												19
Area 21																												
Area 121																												
Area 23 (Alberni Canal)																												0
Area 23 (Barkley)																												61
Area 123																												6
Area 24																										0		
Area 124																												7
Area 25																												18
Area 125																												22
Area 26																												2
Area 126																												11
Area 27													3	(75%)	3	(112%)										6	(67%)	6
Area 127																												19
Area 28																												74
Area 29																	38	(107%)								38	(107%)	23
Juan de Fuca																	50	(103%)								50	(103%)	117
North Island													7	(98%)	7	(118%)										14	(77%)	188
Strait of Georgia															141	(74%)	68	(73%)	239	(81%)						448	(50%)	1928
WCVI													3	(81%)	3	(112%)										6	(69%)	168
All Areas													10	(73%)	151	(69%)	118	(61%)	239	(81%)						518	(45%)	2401

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 10: Final recreational Released Chum catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg			
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.			
Area 11																											0		1	
Area 111																												0		
Area 12															14	(113%)												14	(113%)	36
Area 13																												0		37
Area 14																				12	(105%)							12	(105%)	41
Area 15																														
Area 16																														
Area 17																												0		
Area 18																														
Area 19 (GS)																														
Area 19 (JDF)																														
Area 20 (East)																		50	(103%)									50	(103%)	13
Area 20 (West)																														5
Area 21																														
Area 121																														
Area 23 (Alberni Canal)																														
Area 23 (Barkley)																														
Area 123																														5
Area 24																													0	
Area 124																														
Area 25																														4
Area 125																														
Area 26																														7
Area 126																														10
Area 27																													0	5
Area 127																														
Area 28																														37
Area 29																													0	23
Juan de Fuca																		50	(103%)									50	(103%)	13
North Island															14	(113%)												14	(113%)	36
Strait of Georgia																					12	(105%)						12	(105%)	137
WCVI																													0	36
All Areas															14	(113%)	50	(103%)	12	(105%)								76	(73%)	222

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 11: Final recreational Kept Pink catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.
Area 11													12	(136%)	31	(114%)									43	(90%)	58
Area 111													14	(77%)											14	(77%)	
Area 12													1090	(31%)	2782	(21%)	165 ¹								4037	(17%)	5150
Area 13															5585	(16%)	202	(62%)							5787	(16%)	8342
Area 14													105	(109%)	735	(39%)	67	(54%)							907	(34%)	869
Area 15													80	(50%)	196	(53%)	74	(130%)							350	(42%)	379
Area 16													146 ¹		57	(70%)									203	(70%)	851
Area 17															536	(35%)	148	(79%)							684	(32%)	952
Area 18															403	(33%)	32	(72%)							435	(31%)	6115
Area 19 (GS)																	28	(106%)							28	(106%)	32
Area 19 (JDF)													976	(54%)	698	(32%)	6	(108%)							1680	(34%)	2494
Area 20 (East)													5264	(26%)	21916	(14%)	402	(46%)							27582	(12%)	12108
Area 20 (West)													195	(57%)	329	(33%)									524	(30%)	401
Area 21																	3	(143%)							3	(143%)	130
Area 121													277	(38%)	348	(62%)									625	(39%)	382
Area 23 (Alberni Canal)																									0		28
Area 23 (Barkley)													94	(57%)	14	(103%)									108	(51%)	523
Area 123													27	(98%)	501	(88%)									528	(84%)	270
Area 24													132	(50%)	8	(94%)									140	(47%)	12
Area 124																											160
Area 25													120	(45%)	34	(74%)									154	(39%)	72
Area 125													6	(133%)	10	(97%)									16	(79%)	131
Area 26													23 ²		6 ²										29		5
Area 126													231 ²		96 ²										327		74
Area 27											5	(72%)	159	(22%)	98	(31%)									262	(18%)	110
Area 127													36	(64%)	91	(61%)									127	(47%)	114
Area 28													180	(36%)	498	(46%)	40	(111%)							718	(34%)	3496
Area 29													72	(53%)	9261	(25%)	2257	(37%)							11590	(21%)	1725
Juan de Fuca													6240	(24%)	22614	(14%)	408	(46%)							29262	(12%)	14602
North Island													1116	(30%)	2813	(21%)	165								4094	(17%)	5208
Strait of Georgia													583	(33%)	17271	(15%)	2848	(30%)							20702	(13%)	22761
WCVI												5	(72%)	1300	(18%)	1535	(35%)	3	(143%)						2843	(22%)	2413
All Areas												5	(72%)	9239	(17%)	44233	(9%)	3424	(27%)						56901	(8%)	44984

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 12: Final recreational Released Pink catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	
Area 11															5	(146%)									5	(931%)	85	
Area 111													43	(131%)												43	(131%)	
Area 12													1161	(30%)	1912	(22%)	99 ¹								3172	(17%)	10231	
Area 13															1658	(22%)									1658	(22%)	5984	
Area 14									2	(135%)			110	(94%)	283	(61%)	467	(68%)							862	(44%)	562	
Area 15															57	(87%)	74	(93%)							131	(65%)	509	
Area 16													30 ¹												30		1254	
Area 17													13	(75%)	294	(69%)	80	(59%)							387	(54%)	611	
Area 18															888	(33%)	11	(110%)							899	(33%)	2771	
Area 19 (GS)															11	(104%)	30	(115%)							41	(89%)	34	
Area 19 (JDF)													649	(68%)	276	(42%)									925	(49%)	2695	
Area 20 (East)													3343	(38%)	13278	(21%)	106	(105%)							16727	(18%)	17581	
Area 20 (West)															22	(103%)									22	(103%)	1326	
Area 21																									0		174	
Area 121													92	(85%)	220	(71%)									312	(56%)	450	
Area 23 (Alberni Canal)																	11	(117%)							11	(117%)	9	
Area 23 (Barkley)																	148	(47%)							148	(47%)	458	
Area 123													324	(97%)	486	(82%)									810	(62%)	1147	
Area 24													43	(58%)											43	(58%)	39	
Area 124																											289	
Area 25										12	(109%)	18	(85%)	66	(69%)										96	(52%)	55	
Area 125													15	(133%)	11	(100%)									26	(87%)	71	
Area 26													11 ²		59 ²										70		18	
Area 126													95 ²		312 ²										407		109	
Area 27													361	(28%)	449	(53%)									810	(32%)	150	
Area 127													200	(72%)	491	(63%)									691	(49%)	164	
Area 28													257	(74%)	111	(92%)									368	(59%)	5687	
Area 29													127	(87%)	4615	(28%)	1383	(55%)							6125	(25%)	560	
Juan de Fuca													3992	(33%)	13554	(20%)	106	(105%)							17652	(17%)	20276	
North Island													1204	(29%)	1917	(21%)	99								3220	(17%)	10316	
Strait of Georgia									2	(135%)			537	(48%)	7917	(18%)	2045	(41%)							10501	(16%)	17972	
WCVI											12	(109%)	1159	(35%)	2275	(31%)									3446	(23%)	4458	
All Areas									2	(135%)	12	(109%)	6892	(21%)	25663	(13%)	2250	(39%)							34819	(11%)	53022	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 13: Final recreational Kept Sockeye catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg		
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.		
Area 11																													
Area 111																													
Area 12																												3577	
Area 13																												19969	
Area 14																												145	
Area 15																												121	
Area 16																													
Area 17																												200	
Area 18																												591	
Area 19 (GS)																													
Area 19 (JDF)																													
Area 20 (East)																												2521	
Area 20 (West)																												2802	
Area 21																												126	
Area 121																												724	
Area 23 (Alberni Canal)											459	(25%)												459	(25%)		35743		
Area 23 (Barkley)																												1811	
Area 123																												135	
Area 24																													
Area 124																													
Area 25																													
Area 125																													
Area 26																													
Area 126																													
Area 27																													
Area 127																													
Area 28																												154	
Area 29																												54037	
Juan de Fuca																												2521	
North Island																												3577	
Strait of Georgia																												75217	
WCVI											459	(25%)												459	(25%)		41341		
All Areas											459	(25%)												459	(25%)		122656		

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 14: Final recreational Released Sockeye catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.
Area 11																											1
Area 12													27	(69%)	85	(37%)									112	(33%)	279
Area 13															148	(72%)									148	(72%)	1324
Area 14																									0		55
Area 15																											1
Area 16																											1202
Area 17																											88
Area 18																											157
Area 19 (GS)																											
Area 19 (JDF)													12	(132%)	14	(92%)									26	(78%)	11
Area 20 (East)													56	(102%)	95	(77%)									151	(61%)	718
Area 20 (West)																											137
Area 21																											
Area 121																											9
Area 23 (Alberni Canal)																11	(117%)								11	(117%)	830
Area 23 (Barkley)																									0		141
Area 123																											24
Area 24																									0		26
Area 124																											35
Area 25																								0			5
Area 125																											11
Area 26													3 ²												3		6
Area 126													5 ²												5		10
Area 27																											15
Area 127																											45
Area 28																											53
Area 29																262	(72%)								262	(72%)	469
Juan de Fuca													68	(87%)	109	(68%)									177	(54%)	729
North Island													27	(69%)	85	(37%)									112	(33%)	280
Strait of Georgia																410	(53%)								410	(53%)	3349
WCVI													8		11	(117%)									19	(117%)	1294
All Areas													103	(65%)	615	(38%)									718	(34%)	5652

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 15: Final recreational Kept Halibut catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.
Area 11									42 ¹		235	(30%)	117	(22%)	99	(57%)									493	(21%)	1375
Area 111											210	(74%)	194	(21%)	54	(43%)									458	(35%)	16
Area 12									33 ¹		171	(32%)	181	(33%)	385	(27%)									770	(18%)	2322
Area 13																									0		92
Area 14																									0		41
Area 15																									0		1
Area 16																									0		1
Area 17																									0		1
Area 18									1																1		29
Area 19 (GS)																									0		117
Area 19 (JDF)							278	(46%)	33	(80%)	225	(51%)	93	(47%)	7	(106%)	493	(56%)							1129	(29%)	2703
Area 20 (East)							173	(87%)	123	(37%)			111	(103%)	67	(101%)	53	(105%)	24	(147%)					551	(39%)	712
Area 20 (West)											46	(93%)			13	(99%)									59	(76%)	49
Area 21											16	(52%)	10	(55%)	8	(111%)									34	(39%)	106
Area 121									115 ¹		651	(52%)	5549	(7%)	1130	(32%)	36	(112%)							7481	(9%)	5034
Area 23 (Alberni Canal)									26 ¹				11	(111%)											37	(111%)	5
Area 23 (Barkley)											16	(32%)	110	(41%)	117	(32%)									243	(24%)	295
Area 123									129 ¹		173	(21%)	2029	(49%)	1744	(40%)	9								4084	(31%)	3735
Area 24									21 ¹		32	(56%)	147	(34%)	11	(83%)									211	(28%)	189
Area 124									55 ¹		407	(50%)	126	(44%)	22	(40%)	6								616	(38%)	2026
Area 25									86 ¹		56	(61%)	88	(57%)	29	(75%)	32 ¹								291	(37%)	478
Area 125									163 ¹		100	(25%)	526	(51%)	134	(36%)	70 ¹								993	(36%)	1712
Area 26											38 ²		46 ²		58 ²										142		225
Area 126											429 ²		1557 ²		674 ²		27 ¹								2687		2587
Area 27									32 ¹		41	(19%)	160	(12%)	92	(21%)									325	(10%)	749
Area 127									72 ¹		250	(23%)	442	(13%)	230	(23%)	12 ¹								1006	(10%)	1938
Area 28																									0		44
Area 29																									0		87
Juan de Fuca							451	(44%)	156	(34%)	225	(51%)	204	(60%)	74	(92%)	546	(51%)	24	(147%)					1680	(23%)	3415
North Island									75		616	(29%)	492	(16%)	538	(22%)									1721	(14%)	3712
Strait of Georgia									1																1		413
WCVI										699		2255	(23%)	10801	(12%)	4262	(23%)	192	(79%)						18209	(10%)	19127
All Areas							451	(44%)	931	(34%)	3096	(17%)	11497	(11%)	4874	(20%)	738	(47%)	24	(147%)					21611	(8%)	26667

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 16: Final recreational Released Halibut catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE		
Area 11											42	(56%)	25	(57%)	39	(90%)									106	(42%)	186	
Area 111													17	(47%)	4										21	(38%)	1	
Area 12											20	(121%)	42	(64%)	30	(60%)									92	(44%)	479	
Area 13															29	(91%)									29	(91%)	129	
Area 14																									0		37	
Area 15																									0			
Area 16																									0			
Area 17									5	(165%)	1														6	(137%)		
Area 18																									0		57	
Area 19 (GS)																									0		38	
Area 19 (JDF)							43	(80%)	77	(70%)	170	(48%)	27	(68%)			19	(145%)							336	(32%)	322	
Area 20 (East)							19	(121%)					123	(72%)	32	(101%)									174	(56%)	170	
Area 20 (West)																									0		15	
Area 21													1												1		53	
Area 121											17	(122%)	46	(62%)	6	(143%)	4	(121%)							73	(50%)	662	
Area 23 (Alberni Canal)																									0			
Area 23 (Barkley)											8	(137%)	19	(85%)											27	(72%)	82	
Area 123											5	(75%)	148	(75%)	62		3								218	(51%)	732	
Area 24											8	(64%)	3		1										12	(42%)	15	
Area 124											58	(80%)	12		4										74	(63%)	279	
Area 25											34	(106%)	9	(76%)											43	(85%)	224	
Area 125									8 ¹		41		142	(74%)	7										198	(55%)	253	
Area 26											23 ²		12 ²		1 ²										36		85	
Area 126											188 ²		1163 ²		152 ²										1503		1078	
Area 27									24 ¹		4		65	(32%)	26	(41%)									119	(25%)	180	
Area 127											34	(183%)	70	(45%)	11	(37%)	18 ¹							133	(61%)	610		
Area 28																									0			
Area 29																									0		19	
Juan de Fuca							62	(67%)	77	(70%)	170	(48%)	150	(61%)	32	(101%)	19	(145%)							510	(29%)	492	
North Island											62	(55%)	84	(38%)	73	(54%)									219	(28%)	666	
Strait of Georgia										5	(165%)	1			29	(91%)									35	(79%)	279	
WCVI										32		420	(43%)	1690	(31%)	270	(12%)	25	(69%)							2437	(22%)	4266
All Areas							62	(67%)	114	(67%)	653	(28%)	1924	(25%)	404	(24%)	44	(108%)							3201	(15%)	5714	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 17: Final recreational Kept Lingcod catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	
Area 11											368	(35%)	197	(35%)											565	(26%)	1013	
Area 111																												
Area 12											109	(58%)	299	(31%)	148	(40%)									556	(23%)	996	
Area 13										303	(34%)	488	(35%)	577	(27%)	1367	(49%)	695	(55%)						3430	(24%)	4470	
Area 14											237	(51%)			812	(100%)									1049	(78%)	1038	
Area 15										107 ¹					224	(43%)									331	(43%)	783	
Area 16											142 ¹		443 ¹												585		1535	
Area 17										163	(42%)	124	(32%)	211	(39%)	178	(46%)								676	(21%)	1944	
Area 18										223	(49%)				129	(30%)									352	(33%)	893	
Area 19 (GS)										119	(65%)														119	(65%)		
Area 19 (JDF)																												
Area 20 (East)													190	(53%)	328	(41%)	255	(69%)							773	(31%)	493	
Area 20 (West)															231	(34%)	485	(53%)							716	(38%)	332	
Area 21																												265
Area 121											131	(60%)	187	(43%)											318	(36%)	565	
Area 23 (Alberni Canal)																												
Area 23 (Barkley)										116 ¹		221	(46%)	474	(41%)	378	(21%)								1189	(22%)	1384	
Area 123													148	(113%)											148	(113%)	530	
Area 24													118	(52%)											118	(52%)	509	
Area 124													146	(33%)											146	(33%)	1789	
Area 25											447	(39%)	470	(33%)	521	(45%)	229 ¹								1667	(23%)	982	
Area 125										188 ¹		133	(76%)	582	(33%)	359	(31%)								1262	(23%)	2413	
Area 26											301 ²		1791 ²		212 ²										2304		892	
Area 126											351 ²		1822 ²		717 ²										2890		3662	
Area 27											118	(14%)	368	(7%)	351	(14%)									837	(7%)	1359	
Area 127											390	(33%)	779	(12%)	682	(29%)									1851	(14%)	2846	
Area 28																												113
Area 29										154 ¹					328	(27%)	279	(34%)							761	(21%)	707	
Juan de Fuca													190	(53%)	328	(41%)	255	(69%)							773	(31%)	493	
North Island											477	(30%)	496	(23%)	148	(40%)									1121	(17%)	2010	
Strait of Georgia										1069	(23%)	991	(25%)	1231	(22%)	3038	(35%)	974	(41%)						7303	(18%)	11483	
WCVI										304		2092	(19%)	6885	(12%)	3451	(14%)	714	(53%)						13446	(8%)	17526	
All Areas										1373	(23%)	3560	(14%)	8802	(10%)	6965	(19%)	1943	(29%)						22643	(9%)	31512	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 18: Final recreational Released Lingcod catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE		Est.
Area 11											261	(41%)	159	(73%)	238	(79%)									658	(37%)	432	
Area 111											307	(103%)	335	(28%)	48	(77%)									690	(48%)	7	
Area 12											237	(44%)	166	(45%)	187	(40%)									590	(25%)	509	
Area 13										1478	(34%)	1609	(46%)	631	(29%)	989	(21%)	2053	(33%)	113	(74%)				6873	(17%)	9188	
Area 14										369	(47%)	184	(30%)	219	(62%)	5801	(73%)	71	(62%)	59	(63%)				6703	(63%)	2114	
Area 15										33 ¹		447	(24%)	44	(70%)	300	(36%)								824	(20%)	231	
Area 16										35 ¹		74 ¹		46 ¹		3418	(85%)	275	(65%)						3848	(79%)	524	
Area 17										676	(39%)	127	(57%)	263	(37%)	256	(53%)	135	(80%)						1457	(23%)	1122	
Area 18										514	(40%)	36	(67%)	326	(45%)	627	(25%)	489	(64%)						1992	(22%)	664	
Area 19 (GS)							21	(128%)	205	(50%)	336	(58%)	688	(51%)	342	(54%)	330	(64%)	22	(103%)					1944	(26%)	595	
Area 19 (JDF)							265	(78%)	763	(49%)	887	(42%)	571	(32%)	777	(25%)	210	(51%)	59	(69%)					3532	(18%)	2575	
Area 20 (East)							48	(104%)	406	(45%)	211	(65%)	1185	(33%)	2642	(22%)	1966	(47%)	219	(91%)					6677	(18%)	4012	
Area 20 (West)											7	(79%)			83	(65%)	88	(67%)							178	(45%)	447	
Area 21											14	(115%)	16	(91%)	10	(108%)									40	(61%)	197	
Area 121											7	(72%)	70	(82%)			4	(121%)							81	(71%)	169	
Area 23 (Alberni Canal)										2 ¹															2			
Area 23 (Barkley)										20 ¹		364	(41%)	1120	(42%)	501	(46%)	4								2009	(27%)	2009
Area 123										1 ¹			46	(121%)	16	(198%)									63	(103%)	471	
Area 24										7 ¹		56	(40%)	201	(42%)	72	(61%)	2	(82%)						338	(30%)	151	
Area 124											58	(70%)	31	(70%)	20	(15%)	17								126	(37%)	606	
Area 25										17 ¹		654	(70%)	464	(39%)	603	(37%)	120 ¹							1858	(31%)	537	
Area 125										28 ¹		49	(66%)	46	(68%)	339	(41%)								462	(34%)	648	
Area 26											14 ²		85 ²		25 ²										124		241	
Area 126										10 ¹		36 ²		294 ²		81 ²									421		541	
Area 27										33 ¹		128	(29%)	326	(25%)	266	(23%)	88 ¹							841	(15%)	452	
Area 127										8 ¹		79	(46%)	181	(30%)	199	(48%)	8 ¹							475	(25%)	415	
Area 28																									0		56	
Area 29											125	(103%)	182	(55%)	1324	(27%)	63	(118%)							1694	(24%)	370	
Juan de Fuca							313	(68%)	1169	(36%)	1098	(36%)	1756	(24%)	3419	(18%)	2176	(42%)	278	(73%)					10209	(13%)	6587	
North Island											805	(44%)	660	(25%)	473	(44%)									1938	(23%)	948	
Strait of Georgia							21	(128%)	3310	(20%)	2938	(28%)	2399	(20%)	13057	(39%)	3416	(24%)	194	(49%)					25335	(21%)	14864	
WCVI									126		1466	(34%)	2880	(21%)	2215	(18%)	331	(51%)							7018	(13%)	6885	
All Areas							334	(64%)	4605	(17%)	6307	(17%)	7695	(12%)	19164	(27%)	5923	(22%)	472	(48%)					44500	(13%)	29407	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 19: Final recreational Kept Rockfish¹ catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.
Area 11									54 ¹		563	(30%)	384	(24%)	109	(21%)									1110	(18%)	2068
Area 111											112	(80%)	359	(15%)	133	(13%)									604	(18%)	
Area 12									26 ¹		333	(41%)	377	(23%)	522	(26%)	40 ¹								1298	(17%)	1708
Area 13									189	(38%)	164	(72%)	509	(39%)	429	(30%)	659	(43%)							1950	(20%)	1645
Area 14									83	(50%)	23	(43%)	170	(68%)	695	(78%)	35	(62%)							1006	(55%)	1051
Area 15									51 ¹		326	(26%)	271	(33%)	129	(51%)									777	(19%)	1339
Area 16									685 ¹		71 ¹		704 ¹		593	(31%)	90	(56%)							2143	(28%)	1871
Area 17									261	(42%)	132	(35%)	216	(58%)	232	(45%)	44	(74%)							885	(23%)	1845
Area 18									55	(101%)	64	(56%)	121	(50%)	87	(38%)	110	(49%)							437	(25%)	1389
Area 19 (GS)									45	(96%)	113	(38%)	136	(47%)	95	(54%)	199	(41%)							588	(22%)	461
Area 19 (JDF)									335	(43%)	267	(27%)	349	(34%)	425	(31%)	135	(67%)							1511	(17%)	903
Area 20 (East)									268	(60%)	146	(63%)	970	(37%)	1244	(34%)	511	(49%)							3139	(20%)	1665
Area 20 (West)															121	(35%)	118	(59%)							239	(34%)	207
Area 21											3	(108%)			16	(78%)									19	(68%)	140
Area 121									83 ¹		67	(52%)	84	(58%)	52	(97%)									286	(39%)	426
Area 23 (Alberni Canal)									36 ¹																36		47
Area 23 (Barkley)									19 ¹		328	(42%)	212	(32%)	370	(37%)	11								940	(22%)	1066
Area 123													327	(89%)	17	(186%)									344	(85%)	217
Area 24									169 ¹		60	(52%)	150	(34%)	106	(39%)	7	(74%)							492	(23%)	607
Area 124									32 ¹		26	(24%)	76	(34%)	68	(17%)	15								217	(16%)	1029
Area 25									21 ¹		532	(51%)	513	(43%)	599	(28%)	1642 ¹								3307	(24%)	1075
Area 125									31 ¹		83	(39%)	322	(39%)	142	(36%)									578	(25%)	1596
Area 26									150 ¹		247 ²		1443 ²		70 ²										1910		555
Area 126											133 ²		414 ²		195 ²										742		1392
Area 27											43	(22%)	166	(16%)	101	(17%)									310	(11%)	1305
Area 127											133	(26%)	205	(13%)	179	(21%)									517	(11%)	1983
Area 28																									0		77
Area 29									119 ¹		80	(105%)	36	(79%)	17	(108%)									252	(68%)	787
Juan de Fuca									603	(36%)	413	(29%)	1319	(29%)	1669	(27%)	646	(41%)							4650	(15%)	2568
North Island									80		1008	(23%)	1120	(12%)	764	(18%)	40								3012	(11%)	3777
Strait of Georgia									1488	(24%)	973	(20%)	2163	(20%)	2277	(27%)	1137	(27%)							8038	(12%)	10465
WCVI									541		1655	(25%)	3912	(19%)	2036	(14%)	1793	(46%)							9937	(11%)	11646
All Areas									2712	(21%)	4049	(12%)	8514	(11%)	6746	(12%)	3616	(21%)							25637	(6%)	28455

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 20: Final recreational Released Rockfish¹ catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg	
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE		Est.
Area 11											535	(26%)	518	(35%)	218	(49%)									1271	(20%)	710	
Area 111											117	(60%)	374	(14%)	168	(50%)									659	(18%)	6	
Area 12										108 ¹		680	(45%)	433	(27%)	973	(28%)	28 ¹							2222	(20%)	1709	
Area 13										295	(56%)	170	(39%)	696	(76%)	569	(33%)	5							1735	(34%)	873	
Area 14										51	(61%)	151	(29%)	73	(49%)	532	(60%)	50	(90%)						857	(38%)	421	
Area 15										63 ¹		109	(37%)	3		415	(42%)	337	(117%)						927	(50%)	307	
Area 16										373 ¹		99 ¹		741 ¹		1112	(48%)	47	(86%)						2372	(46%)	866	
Area 17										68	(64%)	45	(90%)	293	(67%)	89	(78%)	18	(91%)						513	(42%)	634	
Area 18										74	(67%)	12	(74%)	26	(97%)	36	(51%)								148	(40%)	631	
Area 19 (GS)										38	(90%)	10	(78%)	105	(109%)	42	(71%)			2	(125%)				197	(63%)	101	
Area 19 (JDF)										50	(111%)			164	(43%)	324	(62%)	186	(88%)	3	(103%)				727	(38%)	164	
Area 20 (East)										174	(54%)	60	(79%)	470	(76%)	101	(75%)	899	(70%)						1704	(43%)	476	
Area 20 (West)											14	(102%)	7	(106%)	93	(51%)									114	(44%)	136	
Area 21											3	(108%)	1	(175%)											4	(92%)	65	
Area 121																									0		93	
Area 23 (Alberni Canal)																												
Area 23 (Barkley)											220 ¹		548	(75%)	157	(39%)	242	(52%)	2							1169	(46%)	535
Area 123												23	(85%)			17	(186%)									40	(93%)	104
Area 24										50 ¹		50	(11%)	156	(61%)	169	(60%)	2	(82%)							427	(37%)	144
Area 124										32 ¹		225	(17%)	84	(53%)	54	(4%)	35								430	(15%)	361
Area 25										169 ¹		374	(56%)	456	(30%)	406	(52%)	2980 ¹								4385	(26%)	778
Area 125										80 ¹		113	(99%)	246	(41%)	284	(31%)									723	(27%)	527
Area 26												627 ²		622 ²		107 ²										1356		1582
Area 126												301 ²		984 ²		458 ²		30 ¹								1773		733
Area 27										49 ¹		132	(27%)	580	(15%)	459	(19%)									1220	(11%)	998
Area 127												343	(35%)	243	(39%)	586	(37%)									1172	(23%)	654
Area 28												1														1		38
Area 29												1		171	(93%)											172	(92%)	238
Juan de Fuca										224	(49%)	60	(79%)	634	(57%)	425	(50%)	1085	(60%)	3	(103%)					2431	(32%)	640
North Island										108		1332	(26%)	1325	(17%)	1359	(22%)	28								4152	(13%)	2425
Strait of Georgia										962	(35%)	598	(20%)	2108	(44%)	2795	(24%)	457	(87%)	2	(125%)					6922	(18%)	4109
WCVI										600		2753	(27%)	3536	(13%)	2875	(16%)	3049	(4%)							12813	(11%)	6708
All Areas										1894	(29%)	4743	(16%)	7603	(15%)	7454	(12%)	4619	(48%)	5	(80%)					26318	(8%)	13882

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 21: Final recreational Kept Rockfish² catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.
Area 11									17 ¹		853	(36%)	268	(27%)	132	(21%)									1270	(25%)	870
Area 111											26	(125%)	171	(27%)	47	(61%)									244	(26%)	63
Area 12									13 ¹		176	(71%)	338	(31%)	217	(26%)	70 ¹								814	(24%)	1161
Area 13									144	(68%)			161	(53%)	238	(59%)	201	(83%)							744	(34%)	287
Area 14									33	(72%)	19	(123%)	25	(48%)	521	(104%)	94	(99%)							692	(79%)	292
Area 15									53 ¹				23	(85%)			9	(155%)							85	(75%)	561
Area 16									57 ¹		20 ¹		124 ¹		96	(79%)	2	(152%)							299	(78%)	2266
Area 17									42	(62%)	70	(89%)	62	(84%)	161	(50%)	21	(128%)							356	(34%)	399
Area 18											56	(76%)	18	(63%)			75	(63%)							149	(44%)	229
Area 19 (GS)											5	(106%)	13	(103%)	1		39	(84%)							58	(62%)	88
Area 19 (JDF)									79	(110%)	42	(57%)	49	(58%)	15	(102%)	100	(67%)							285	(41%)	259
Area 20 (East)									43	(103%)	90	(66%)	235	(48%)	162	(55%)	250	(55%)	49	(112%)					829	(26%)	1619
Area 20 (West)											67	(48%)	167	(56%)	782	(24%)	520	(44%)							1536	(20%)	1619
Area 21											11	(73%)	12	(44%)	14	(77%)	17	(126%)							54	(48%)	128
Area 121									61 ¹		149	(57%)	200	(45%)	165	(79%)	20	(76%)							595	(34%)	735
Area 23 (Alberni Canal)									87 ¹						32	(73%)									119	(73%)	46
Area 23 (Barkley)									61 ¹		1606	(49%)	1339	(24%)	1550	(24%)	401	(54%)							4957	(19%)	4112
Area 123									21 ¹		4	(94%)	18	(62%)	42	(17%)									85	(22%)	1083
Area 24									102 ¹		54	(63%)	169	(53%)	166	(51%)	12	(14%)							503	(32%)	718
Area 124									54 ¹		32	(75%)	72	(92%)	21	(27%)	21								200	(48%)	1272
Area 25									183 ¹		527	(48%)	535	(24%)	680	(35%)	374 ¹								2299	(21%)	1897
Area 125									146 ¹		141	(48%)	193	(33%)	320	(40%)									800	(24%)	1683
Area 26									52 ¹		445 ²		6869 ²		204 ²										7570		850
Area 126											233 ²		575 ²		606 ²		42 ¹								1456		992
Area 27									95 ¹		245	(22%)	515	(13%)	495	(20%)									1350	(10%)	1169
Area 127									136 ¹		186	(21%)	176	(21%)	198	(33%)									696	(15%)	866
Area 28																									0		83
Area 29									39 ¹		160	(74%)			1										200	(74%)	240
Juan de Fuca									122	(80%)	132	(48%)	284	(41%)	177	(51%)	350	(44%)	49	(112%)					1114	(22%)	1878
North Island									30		1055	(31%)	777	(17%)	396	(17%)	70								2328	(16%)	2094
Strait of Georgia									368	(48%)	330	(46%)	426	(35%)	1018	(56%)	441	(46%)							2583	(28%)	4443
WCVI									998		3700	(28%)	10840	(12%)	5275	(12%)	1407	(32%)							22220	(9%)	17169
All Areas									1518	(42%)	5217	(20%)	12327	(9%)	6866	(13%)	2268	(23%)	49	(112%)					28245	(8%)	25584

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions

Table 22: Final recreational Released Rockfish² catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), 2019

PFMA	January		February		March		April		May		June		July		August		September		October		November		December		Total		5 Yr. Avg
	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	Est.	%SE	
Area 11											560	(46%)	210	(61%)	494	(56%)									1264	(32%)	796
Area 111											149	(107%)	472	(42%)	58	(67%)									679	(38%)	
Area 12										63 ¹		775	(36%)	1185	(27%)	1809	(31%)	19 ¹							3851	(19%)	3132
Area 13										91	(48%)	255	(58%)	423	(47%)	166	(65%)	52	(122%)	95	(86%)				1082	(27%)	4251
Area 14										61	(72%)	28	(65%)	194	(60%)	1413	(64%)	115	(157%)	85	(110%)				1896	(50%)	3668
Area 15										563 ¹		194	(37%)	44	(79%)	464	(68%)								1265	(46%)	1818
Area 16										63 ¹		309 ¹		384 ¹		30	(72%)								786	(72%)	3515
Area 17										348	(47%)	171	(53%)	388	(37%)	394	(52%)	31	(88%)						1332	(24%)	2046
Area 18										521	(63%)	90	(55%)	177	(56%)	161	(38%)	191	(72%)						1140	(33%)	1683
Area 19 (GS)										163	(69%)	302	(66%)	208	(80%)	168	(55%)	85	(74%)	9	(134%)				935	(33%)	1126
Area 19 (JDF)							19	(100%)	362	(55%)	1120	(48%)	373	(43%)	239	(36%)	483	(53%)	28	(70%)				2624	(25%)	1684	
Area 20 (East)							58	(88%)	121	(72%)	114	(66%)	1116	(38%)	1758	(27%)	1126	(33%)	438	(60%)				4731	(17%)	6116	
Area 20 (West)											6	(75%)	36	(118%)	54	(56%)	44	(81%)							140	(45%)	1647
Area 21											9	(107%)	2	(175%)											11	(93%)	85
Area 121																		12	(90%)						12	(90%)	277
Area 23 (Alberni Canal)															18	(102%)	15	(88%)							33	(69%)	77
Area 23 (Barkley)										176 ¹		991	(52%)	781	(34%)	1012	(28%)	1							2961	(23%)	4632
Area 123											12	(91%)	185	(121%)											197	(113%)	587
Area 24										19 ¹		30	(61%)	124	(106%)	37	(89%)								210	(72%)	310
Area 124											7	(116%)	19	(118%)	5	(101%)									31	(79%)	749
Area 25										168 ¹		207	(44%)	718	(25%)	838	(36%)	299 ¹							2230	(21%)	3659
Area 125										36 ¹		6	(44%)	132	(44%)	222	(66%)								396	(44%)	989
Area 26											79 ²		104 ²		120 ²										303	(60%)	607
Area 126											66 ²		129 ²		89 ²										284	(57%)	502
Area 27											254	(49%)	881	(18%)	1061	(18%)									2196	(13%)	2355
Area 127											25	(46%)	186	(74%)	45	(63%)									256	(55%)	294
Area 28										224 ¹		1													225	(51%)	362
Area 29										52 ¹		99	(88%)	37	(79%)			378	(118%)						566	(89%)	1266
Juan de Fuca							77	(71%)	483	(45%)	1234	(44%)	1489	(31%)	1997	(24%)	1609	(28%)	466	(57%)					7355	(14%)	7800
North Island							63		1484	(28%)	1867	(22%)	2361	(26%)	19										5794	(15%)	3928
Strait of Georgia										2086	(33%)	1449	(26%)	1855	(23%)	2796	(36%)	852	(60%)	189	(66%)				9227	(17%)	19733
WCVI										399		1692	(35%)	3297	(15%)	3501	(15%)	371	(55%)						9260	(11%)	16769
All Areas							77	(71%)	3031	(27%)	5859	(17%)	8508	(11%)	10655	(13%)	2851	(27%)	655	(45%)				31636	(7%)	49303	

¹Estimate based on In-Fill process

²Estimate based on Logbook expansions