



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

Overview:

This bulletin provides a monthly update on estimates of recreational fin fishing effort and catch in the marine waters of southern British Columbia, within Pacific Fishery Management Areas 11 through 29 and 111, 121 to 127. These estimates are generated from data collected by the DFO's South Coast Creel Survey. A brief overview of the survey, the study area and methods used to collect data and generate these estimates is provided in the first bulletin of 2019, available on the Federal Science Library catalogue:

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

The search term "South Coast assessment bulletin, creel survey" is helpful to find the bulletins
The estimates presented in this bulletin are based on in-season data and should be interpreted as preliminary and subject to revision as the data are finalized.

Recreational Fishery Links:

It is the responsibility of all fishers to be familiar with the current regulations prior to fishing. The online British Columbia Sport Fishing Guide will provide you with information on regulations and management measures in place. The guide can be accessed from the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage at:

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

In-season management measure are sometimes required that are not published in the guide. These decisions are implemented by the issuance of a fishery notice which can be viewed at:

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

Creel Survey Data:

A summary of survey statistics and preliminary recreation effort, measured in boat trips, by Pacific Fishery Management Area (PFMA) are presented in Table 1. Maps identifying the PFMA's are available by following the link provided above to the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage.

Recreational Catch Estimates:

A summary of preliminary kept and released catch estimates for key species by PFMA are presented in Tables 2 through 5. Table 6 presents kept Chinook catch estimates by Pacific Fishery Management Area, divided into Aggregate Abundance-based Management (AABM) and Individual Stock-based Management (ISBM) groupings.

Contacts:

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Table 1: Creel survey statistics (number of interviews and flights) and preliminary effort estimates (number of boat trips) by Pacific Fishery Management Area, September 2019.

Pacific Fishery Management Area (PFMA)	Number of Creel Interviews	Number of Effort Count Flights ¹	Effort			
			Estimate	%SE ²	Year to date ³	Year to date 5-yr avg
11	No Survey This Month			%	1479	1636
111	No Survey This Month			%	1384	6
12	No Survey This Month			%	10377	13543
13	66	8	2808	16%	19695	28277
14	163	8	2062	29%	16142	16360
15	26	8	1254	33%	5565	6805
16	10	7	344	41%	5469	8039
17	81	8	1032	19%	8079	9712
18	18	8	534	12%	2199	6300
19	63	8	3648	15%	10288	9764
20	282	11	7637	14%	28049	31743
21	8	5	58	57%	645	622
121	9	5	128	39%	2648	2653
23	111	6	4187	0%	31166	27435
123	No Survey This Month	4		%	2900	3989
24	28	4	103	1%	2787	1854
124	No Survey This Month	4		%	549	2944
25	No Survey This Month			%	12579	12077
125	No Survey This Month			%	1131	2425
26	No Survey This Month			%	4337	1477
126	No Survey This Month			%	2684	1786
27	No Survey This Month			%	3650	3242
127	No Survey This Month			%	1048	1942
28	25	8	1133	33%	3694	7578
29	74	8	4018	25%	14079	15918
Total ⁴	975		28946	6%	192623	218127

¹ The number of flights where weather conditions allowed effort counts; not including on-water counts

² %SE is a measure of uncertainty; one Standard Error as a percentage of the estimate.

³ Cumulative effort (from June 2019) to date summed across periods where surveys are active
- note that WCVI 5 year averages including September are unavailable (N/A)

⁴ Individual flights cover multiple PFMA's, so an additive total is not appropriate

Table 2: Preliminary recreational kept catch estimates (number of fish) for key salmon species by Pacific Fishery Management Area (PFMA), September 2019. Percent standard error (%SE); one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

Pacific Fishery Management Area (PFMA)	Chinook				Coho				Sockeye			
	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹
11												
111												
12												
13	2294	28%	18040	24707	264	47%	856	5677				
14	1162	26%	7833	7018	105	64%	2968	3803				
15	734	53%	3762	3733	144	87%	298	856				
16	49	59%	1034	2022	41	71%	87	306				
17	406	41%	1938	2467	121	53%	1074	1112				
18	53	59%	367	1092	40	62%	40	58				
19	312	53%	2381	2553	136	75%	276	241				
20	2983	19%	18814	22835	4541	20%	7116	9430				
21	77	54%	1570	1262	3	128%	171	181				
121	4	124%	4086	10147								
23	1770	28%	35373	19020	1155	27%	15132	7658				
123												
24	6	54%	3145	2237	259	15%	3062	1417				
124												
25												
125												
26												
126												
27												
127												
28	191	56%	990	1226	191	64%	300	1154				
29	2663	33%	10161	3841	255	55%	787	822				
Kept Total ²	12704	11%	109494	104160	7255	14%	32167	32715	0		0	0

¹Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

²Including only those areas with in-season estimates this month

Table 3: Preliminary recreational released catch estimates (number of fish) for key salmon species by Pacific Fishery Management Area (PFMA), September 2019. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

Pacific Fishery Management Area (PFMA)	Chinook				Coho				Sockeye			
	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹
11												
111												
12												
13	2139	32%	38786	23676	382	38%	6799	18993				
14	2406	41%	26829	15268	1957	44%	14181	11788				
15	1572	41%	7372	647	9	164%	1034	2045				
16	375	47%	7906	220	254	71%	1734	1411				
17	2042	33%	27767	4515	406	39%	4935	3303				
18	291	54%	1408	517								
19	711	45%	4859	2205	1362	52%	1857	579				
20	2751	26%	18606	22640	20205	20%	25952	18434				
21												
121					109	124%	16887	5680				
23	1419	36%	48310	21801								
123												
24	10	52%	751	954	72	28%	2193	767				
124												
25												
125												
26												
126												
27												
127												
28	283	61%	843	414								
29	1521	40%	12802	2852	270	64%	4816	1215				
Kept Total ²	15520	12%	196239	95709	25026	16%	80388	64215	0		0	0

¹Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

²Including only those areas with in-season estimates this month

Table 4: Preliminary recreational kept catch estimates (number of fish) for key groundfish species by Pacific Fishery Management Area (PFMA), September 2019. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

Pacific Fishery Management Area (PFMA)	Halibut				Lingcod				Rockfishes ¹			
	Estimate	%SE	Year to date 5-yr. average ²	Year to date 5-yr. average ²	Estimate	%SE	Year to date 5-yr. average ²	Year to date 5-yr. average ²	Estimate	%SE	Year to date 5-yr. average ²	Year to date 5-yr. average ²
11												
111												
12												
13					648	52%	3204	3696	847	36%	2462	1895
14					43	59%	1122	835	130	74%	1520	1171
15									9	155%	777	1244
16					41	72%	187	1363	92	54%	881	3867
17					18	135%	557	1497	65	65%	898	2131
18									244	41%	591	1566
19	485	79%	821	1027					336	35%	1900	1327
20	62	106%	288	482	573	51%	1349	982	1362	29%	5280	4802
21									17	126%	86	632
121	39	114%	7507	4920	35	86%	398	429	22	77%	767	1223
23					304	81%	1332	1361	863	41%	6486	5192
123												
24					19	64%	247	470	21	67%	782	1309
124												
25												
125												
26												
126												
27												
127												
28												
29					279	34%	709	476	4008	16%	22430	26359
Kept Total ²	586	67%	8616	6429	1960	27%	9105	11109	4008	16%	22430	26359

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

³ Including only those areas with in-season estimates this month

Table 5: Preliminary recreational released catch estimates (number of fish) for key groundfish species by Pacific Fishery Management Area (PFMA), September 2019. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMA's where they are calculated in-season.

Pacific Fishery Management Area (PFMA)	Halibut				Lingcod				Rockfishes ¹			
	Estimate	%SE	Year to date ²	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ²	Year to date 5-yr. average ²	Estimate	%SE	Year to date ²	Year to date 5-yr. average ¹
11												
111												
12												
13					1912	33%	5100	7974	47	132%	2293	4291
14					71	62%	6026	1788	169	110%	2351	3508
15									337	117%	1571	2101
16					274	66%	3787	458	47	86%	2650	3796
17					134	80%	751	730	50	63%	1373	1838
18					695	67%	1695	603	191	72%	703	2261
19	27	145%	242	194	743	44%	4504	1840	567	52%	3822	2107
20					2406	47%	6583	3758	2234	39%	6113	7515
21												
121	4	124%	109	657	4	124%	84	167	13	93%	13	496
23									621	78%	4529	5062
123												
24												
124					4	100%	322	148	4	106%	436	523
25												
125												
26												
126												
27												
127												
28												
29					63	118%	1700	415	378	118%	684	768
Released Total ²	31	129%	351	851	6306	23%	30552	17881	4658	26%	26538	34266

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

³ Including only those areas with in-season estimates this month

Table 6: Preliminary recreational kept Chinook catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), September 2019, divided into Aggregate Abundance-based Management (AABM) and Individual Stock-based Management (ISBM) groupings.

Area	Region	AABM			ISBM		
		Estimate	Year to date ¹	Year to date 5-yr. average ²	Estimate	Year to date ¹	Year to date 5-yr. average ²
20 (West)	Juan de Fuca	0	0	0	980	8549	7450
21	Nitinat	0	549	450	77	1021	800
121	Swiftsure Bank	4	4086	10150	0	0	0
23 -1,2	Alberni Inlet	0	166	0	134	5908	3150
23 - 3 to 11	Barkley Sound	0	14126	5800	1635	15173	10050
123	Offshore Barkley	0	7180	11150	0	0	150
24	Clayoquot Sound	0	2073	1650	6	1072	600
124	Offshore Clayoquot	0	44	7400	0	0	300
25	Nootka Snd. / Esperanza Inlet	0	446	1050	0	15479	13450
125	Offshore Nootka	0	860	3350	0	0	50
26	Kyuquot Sound	0	1041	450	0	4287	1850
126	Offshore Kyuquot	0	2517	4850	0	0	100
27	Quatsino Sound	0	1121	450	0	3156	2350
127	Offshore Quatsino	0	764	2550	0	0	0

¹Cumulative kept (from June 2019) to date summed across periods where surveys are active.

²Cumulative kept to date 5 year averages have been rounded to the nearest 50 fish.