



South Coast Assessment Bulletin September 2022 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 - 29, 111, and 121 - 127. These estimates are generated from data collected by the DFO's South Coast Creel Survey. An overview of the survey, the study area, and methods used to collect data and generate these estimates is provided in the first bulletin of 2022, 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. Information on regulations and management measures in place can be accessed from 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 here:

<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.

Cumulative totals are calculated from June to September inclusive.

Recreational Catch Estimates:

Summaries 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.

Note:

As of March 2022, catch and effort estimates for the creel sub-areas within the management corridor along the west coast of Vancouver Island (i.e. 1 nm seaward from the surfline, from Barkley to Quatsino) are included as part of the associated offshore PFMA, with the exception of Chinook AABM/ISBM catch estimates (Table 6) as per the Pacific Salmon Treaty.

During overflights in PFMA's 24, 124, 25, and 125, Five Nations vessels are indistinguishable from sport vessels. Current in-season estimates are not adjusted to remove Five Nations effort.

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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 2022.

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			%	1330	1691
111	No Survey This Month			%	542	690
12	No Survey This Month			%	4815	11371
13	256	8	3425	15%	19130	23504
14	335	8	3010	20%	16870	18537
15	27	8	490	17%	6816	7180
16	54	8	538	11%	6866	9113
17	248	8	2132	18%	10524	9214
18	58	8	850	8%	3630	4743
19	260	8	2558	7%	8775	9309
20	537	14	8238	8%	30201	29188
21	1	8	2	79%	544	567
121	10	8	126	42%	2274	2615
23	360	8	3166	11%	23510	23820
123	155	8	747	21%	5580	7167
24	37	7	242	21%	1446	1045
124	47	7	249	20%	2646	2873
25	No Survey This Month	4		%	8875	11025
125	No Survey This Month	4		%	2293	3027
26	No Survey This Month			%	3357	2939
126	No Survey This Month			%	2713	2392
27	No Survey This Month			%	3645	3728
127	No Survey This Month			%	1861	1587
28	76	8	2870	31%	5520	5162
29	120	8	6956	21%	10971	14123
Total ⁴	2620		35599	6%	184734	206610

¹ The number of flights where weather conditions allowed effort counts.

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

³ Cumulative effort (from June 2022) to date summed across periods where surveys are active.

⁴ Individual flights cover multiple PFMAs, 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 2022. 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	3201	19%	18409	19527	1928	12%	2450	2312				
14	1768	21%	14422	10238	949	27%	1286	3134				
15	155	32%	5465	4195								
16												
17	581	25%	4176	2074	147	33%	437	1157				
18												
19	819	14%	2070	1813	396	19%	431	191				
20	5268	9%	17274	18796	5835	12%	19217	10159				
21												
121	104	47%	6705	6064								
23	1727	18%	24995	20461	1635	15%	11316	6558				
123	980	26%	12339	15677	305	34%	2942	6077				
24	166	33%	675	540	292	26%	2756	889				
124	165	41%	3608	3925								
25												
125												
26												
126												
27												
127												
28	1408	48%	1631	991	726	54%	1085	902				
29	7585	31%	8407	4759	1591	38%	1897	995	721	74%	721	11029
Kept Total ²	23927	11%	120176	109060	13804	8%	43817	32374	721	74%	721	11029

¹Cumulative kept catch (from June 2022) 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 2022. 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	6134	23%	49178	35920	819	20%	4933	13764	51	56%	559	368
14	4825	23%	41147	31384	2043	47%	3981	13036	0		0	5
15	862	23%	17485	7502	30	43%	1227	1432				
16	176	43%	10700	5587	0		141	1613				
17	5005	24%	32481	17313	1822	31%	2726	4283				
18	1239	39%	4534	806	254	54%	268	226				
19	1992	19%	5163	2789	2225	14%	2687	880	38	50%	126	26
20	17139	12%	72032	26267	23006	12%	74342	26343	31	70%	413	390
21	0		857	116								
121	76	111%	3265	2346	35	94%	3067	8333				
23	1205	21%	44355	31115	517	39%	3455	3258	0		463	1714
123	547	29%	12319	11616	379	36%	5720	12613				
24	122	68%	660	481	25	65%	678	207				
124	44	86%	2711	1140	0		438	1217				
25												
125												
26												
126												
27												
127												
28	484	70%	2760	1126	25	63%	157	480				
29	6841	23%	17198	9081	2611	35%	3241	2583	1570	68%	1728	260
Released Total ²	46691	8%	316845	184589	33791	9%	107061	90268	1690	64%	3289	2763

¹Cumulative released catch (from June 2022) 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 2022. 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 ²	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 ²
11												
111												
12												
13	0		34	45	312	24%	2880	2914	422	25%	2154	2079
14	0		0	34	104	38%	407	685	241	39%	997	1344
15	0		41	23	0		634	551	0		543	764
16	0		100	0	31	44%	670	1418	80	46%	1935	2405
17	0		0	0	142	35%	881	760	139	33%	1443	1926
18	0		0	7	227	42%	598	442	173	38%	578	1293
19	92	34%	470	781	192	40%	661	306	516	27%	2004	1744
20	39	60%	296	413	521	30%	1383	1433	1329	17%	6562	5458
21	0		48	61	0		40	136	0		136	471
121	0		5666	5518	632	81%	1130	633	409	123%	1350	1409
23	2	126%	64	155	140	44%	1441	1110	168	27%	2278	2755
123	663	42%	6425	4910	342	39%	2500	864	408	36%	3309	2515
24	0		34	38	0		47	246	34	62%	118	519
124	115	39%	1812	1192	130	41%	2003	1412	75	31%	1051	1824
25												
125												
26												
126												
27												
127												
28	0		0	3	0		0	3	1	87%	12	52
29	0		0	1	66	52%	685	498	3	46%	531	801
Kept Total ³	911	31%	14990	13181	2839	20%	15960	13411	3998	15%	25001	27359

¹ All rockfishes including those not identified to species.

² Cumulative kept catch (from June 2022) 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 2022. Percent standard error (%SE; one standard error as a percentage of the estimate), a measure of uncertainty, is indicated for estimates from PFMAs 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	0		47	20	847	28%	8161	5681	337	32%	4095	4107
14	6	94%	7	43	840	66%	2068	2798	1781	31%	5607	2862
15	0		0	2	81	44%	2226	812	51	46%	976	2441
16	0		0	0	348	48%	2777	1848	233	28%	3127	5373
17	0		8	0	380	34%	2620	1235	514	23%	3088	2235
18	0		0	26	346	35%	2344	1286	210	42%	1155	2150
19	28	60%	81	146	1546	25%	6642	3237	654	36%	3265	2970
20	0		41	76	1133	23%	6253	4380	1136	25%	6488	6420
21	0		9	0	0		120	15	0		155	98
121	0		378	138	388	95%	515	132	388	85%	782	239
23	0		38	21	302	43%	1853	1729	393	35%	2895	3411
123	57	71%	982	636	211	53%	1977	884	67	39%	1325	1741
24	0		0	2	0		55	85	0		108	370
124	0		163	172	11	60%	436	444	21	66%	669	693
25												
125												
26												
126												
27												
127												
28	0		0	0	4	75%	178	10	1	87%	28	82
29	0		9	4	79	57%	895	918	124	48%	425	587
Released Total ³	91	49%	1763	1286	6516	14%	39120	25494	5910	13%	34188	35779

¹ All rockfishes including those not identified to species.

² Cumulative released catch (from June 2022) 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 2022, 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
121	Swiftsure Bank	104	6687	6050	0	0	0
123	Offshore Barkley	0	6946	11250	897	5393	4400
124	Offshore Clayoquot	0	2742	2850	141	866	1050
125	Offshore Nootka	0	969	1800	0	1607	1450
126	Offshore Kyuquot	0	144	3150	0	0	200
127	Offshore Quatsino	0	1947	1000	0	285	350
20 (West)	Juan de Fuca	0	0	0	1225	5137	7650
21	Nitinat	0	1760	700	0	0	400
23-1,2	Alberni Inlet	0	0	150	1008	9314	5200
23-3 to 11	Barkley Sound	0	7511	6250	719	8156	8950
24	Clayoquot Sound	0	498	450	166	177	300
25	Nootka Snd. / Esperanza Inlet	0	1981	1100	0	8853	10300
26	Kyuquot Sound	0	798	1100	0	5257	3500
27	Quatsino Sound	0	1101	600	0	1524	2350
Total		104	33084	36450	4156	46569	46100

¹Cumulative kept catch (from June 2022) to date summed across periods where surveys are active.

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