



South Coast Assessment Bulletin August 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 PFMAs 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 August 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 PFMAs 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.

Contacts:

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

Johnstone Strait and North Island Surveys (PFMAs 11, 12, 27, 111 & 127)

Matthew Clarke– Acting Program Head, Johnstone Strait Salmon Stock Assessment

Matthew.Clarke@dfo-mpo.gc.ca

250-527-0157

Strait of Georgia Survey (PFMAs 13 – 20, 28 & 29)

Kevin Pellett– Program Head, Strait of Georgia Salmon Stock Assessment

Kevin.Pellett@dfo-mpo.gc.ca

250-619-3781

West Coast Vancouver Island Survey (PFMAs 20 – 26 & 121 – 126)

Pieter Van Will– Program Head, WCVI Salmon Stock Assessment

Pieter.VanWill@dfo-mpo.gc.ca

250-230-0048

All South Coast Area

Erin Rechisky– Area Chief South Coast Salmon Stock Assessment

Erin.Rechisky@dfo-mpo.gc.ca

250-756-7222

Table 1: Creel survey statistics (number of interviews and flights) and preliminary effort estimates (number of boat trips) by Pacific Fishery Management Area, August 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	67	6	497	16%	1330	1600
111	3	5	91	66%	542	686
12	209	7	1685	15%	4815	10412
13	378	9	8457	12%	15705	19750
14	461	9	8327	9%	13861	15733
15	24	9	3280	21%	6325	6206
16	70	9	1874	8%	6327	8177
17	419	10	4130	14%	8392	7823
18	67	10	1122	8%	2781	3961
19	308	11	3272	10%	6218	6889
20	926	16	12737	5%	21963	21187
21	11	9	75	41%	542	531
121	148	9	958	12%	2147	2485
23	786	9	12493	6%	20343	19781
123	447	10	2789	8%	4833	6380
24	171	9	417	15%	1204	856
124	290	9	1117	15%	2397	2725
25	389	10	4244	11%	8875	10247
125	46	8	446	28%	2293	2851
26	Based on Logbooks	7	1715	0%	3357	2780
126	Based on Logbooks	11	1230	0%	2713	2350
27	188	7	1295	8%	3645	3138
127	107	7	690	16%	1861	1479
28	65	10	1493	12%	2650	3165
29	32	10	1899	12%	4015	8653
Total ⁴	5710		76333	3%	149134	169845

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), August 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	475	25%	1629	3587	553	26%	1514	555				
111												
12	707	23%	1750	5411	244	27%	2680	2857				
13	7723	15%	15207	17604	490	31%	522	1948				
14	8266	11%	12654	9024	241	39%	337	2921				
15	2379	32%	5310	3858								
16	544	26%	2710	2815								
17	1456	18%	3595	1770	231	37%	291	1078				
18	284	24%	284	416								
19	1251	13%	1251	1467								
20	10582	6%	12006	16166	3184	15%	13382	3792				
21												
121	4160	13%	6601	6058	1895	17%	2335	5868				
23	15744	8%	23269	18437	4334	10%	9682	5394	4125	19%	6934	10841
123	6950	8%	11359	14953	1282	16%	2637	5697				
24					1170	16%	2463	744				
124	2124	15%	3443	3842	133	30%	335	777				
25	4664	14%	10834	11159	2066	22%	5791	3149				
125	322	49%	2575	3253	241	48%	2228	1151				
26	2781		6055	4279	1710		2969	716				
126												
27	703	13%	2625	2654	1435	14%	4309	2857				
127	832	24%	2233	1304	150	42%	395	515				
28	200	56%	223	417	345	36%	359	467				
29	340	39%	822	2835	260	39%	306	681				
Kept Total ²	72487	4%	126435	131309	19964	5%	52535	41167	4125	19%	6934	10841

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), August 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)	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	196	45%	706	1328	153	61%	327	201				
111	0		49	550	0		0	37				
12	1836	23%	7028	11512	793	27%	3879	5298	11	55%	40	138
13	19084	12%	43044	32798	3373	19%	4114	11441	508	39%	508	359
14	18070	13%	36321	27430	1453	23%	1937	10790	0		0	6
15	5757	28%	16623	6993	1051	55%	1197	1312	45	82%	45	
16	2537	23%	10523	5168	60	52%	141	1513				
17	11227	17%	27476	15516	772	25%	904	3885				
18	1794	28%	3295	655	7	117%	13	237	114	56%	114	63
19	2596	18%	3171	2160	452	29%	462	240	88	54%	88	23
20	40174	10%	54893	22581	17377	12%	51336	8469	113	49%	381	298
21	120	66%	857	116								
121	2448	16%	3190	2332	2705	18%	3032	8161				
23	12584	13%	43150	29775	790	25%	2938	3037	119	64%	463	1658
123	6433	14%	11772	11274	2686	20%	5341	11957	5	102%	7	10
24	137	27%	538	467	138	33%	653	167				
124	1140	20%	2667	1130	332	26%	438	1210	12	71%	12	38
25	3849	14%	14436	9341	813	45%	3186	1373				
125	792	101%	4410	2189	29	113%	892	1067				
26	804		2575	1407	84		301	208				
126	33		88	672	24		98	749				
27	398	25%	3012	2273	523	20%	2139	1667				
127	258	49%	427	349	170	52%	979	948				
28	870	36%	2276	685	132	69%	132	245				
29	5366	19%	10357	6284	630	33%	631	2175	158	69%	158	228
Released Total ²	138503	5%	302884	194985	34547	7%	85070	76387	1173	22%	1816	2821

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), August 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	164	50%	660	890	339	60%	1110	832	661	28%	1612	2249
111	82	90%	881	271	98	57%	485	211	0		659	952
12	110	73%	647	1014	183	39%	820	664	204	29%	1377	2084
13	20	91%	34	45	989	22%	2568	2320	904	21%	1732	1577
14	0		0	33	113	54%	303	577	394	27%	755	1109
15	0		41	23	157	50%	634	483	272	69%	543	679
16	0		100	0	384	41%	639	1249	1060	33%	1855	2021
17	0		0	0	278	27%	739	594	620	29%	1305	1704
18	0		0	0	36	62%	371	297	73	62%	404	1022
19	196	39%	378	509	253	32%	470	222	682	22%	1485	1393
20	6	101%	258	286	335	25%	863	931	2202	17%	5231	3992
21	8	133%	48	60	9	124%	40	96	8	137%	136	370
121	1535	18%	5666	5458	267	25%	498	526	519	41%	941	1332
23	16	103%	62	155	387	31%	1301	1069	920	20%	2109	2714
123	3485	18%	5762	4583	1404	17%	2157	775	1857	14%	2903	2313
24	5	107%	34	38	10	50%	47	200	20	52%	84	426
124	507	25%	1698	1083	484	35%	1873	1328	338	23%	978	1679
25	50	75%	268	273	416	39%	1403	908	901	27%	2411	2278
125	428	90%	945	1126	1014	53%	4385	2525	357	35%	3361	2645
26	114		174	252	468		1459	1348	805		2305	1990
126	753		2570	2222	2244		6186	3413	1228		3483	4595
27	38	43%	488	341	386	26%	2084	1131	432	25%	2016	1558
127	601	24%	1868	1158	2311	20%	6531	2624	1116	17%	2917	1980
28	0		0	3	0		0	3	0		11	16
29	0		0	1	67	81%	619	424	0		528	683
Kept Total ³	8118	11%	22582	19824	12632	9%	37585	24750	15573	6%	41141	43361

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), August 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 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	16	122%	73	71	34	65%	394	528	73	83%	380	2261
111	0		56	20	0		324	317	0		23	948
12	6	77%	83	206	68	90%	750	453	386	44%	2411	6141
13	20	91%	47	20	2527	23%	7314	4403	1117	24%	3758	3693
14	1	165%	2	38	458	61%	1228	2502	2420	22%	3824	2410
15	0		0	2	514	68%	2146	784	47	56%	925	1834
16	0		0	0	642	44%	2429	1615	1876	36%	2894	4694
17	0		8	0	1075	26%	2240	1097	1081	18%	2575	2001
18	0		0	26	410	35%	1997	939	162	41%	945	1622
19	34	69%	52	119	1513	25%	5096	2551	510	23%	2613	2399
20	24	75%	41	72	2188	27%	5120	3135	2528	19%	5352	4588
21	0		9	0	0		120	15	0		155	98
121	22	77%	378	137	66	35%	127	120	284	38%	394	251
23	17	103%	38	21	459	27%	1551	1619	1222	19%	2503	3333
123	657	35%	925	631	1167	19%	1766	831	886	19%	1258	1603
24	0		0	1	33	53%	55	74	70	68%	108	356
124	45	61%	163	163	190	28%	426	415	220	41%	648	647
25	0		14	13	448	57%	1494	610	679	39%	2627	3390
125	33	90%	65	164	227	73%	1850	1162	471	58%	3127	2031
26	98		103	49	57		182	132	264		816	1260
126	132		296	732	74		268	341	1009		6777	1471
27	38	56%	164	52	50	41%	764	460	279	41%	1127	2163
127	80	62%	220	176	114	59%	693	558	487	29%	2151	1711
28	0		0	0	74	73%	174	10	20	70%	27	92
29	0		9	0	64	83%	815	841	0		301	452
Released Total ³	1223	25%	2746	2713	12452	10%	39323	25512	16091	8%	47719	51449

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), August 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	4141	6582	6050	0	0	0
123	Offshore Barkley	2453	6863	11100	4496	4496	3850
124	Offshore Clayoquot	1399	2718	2800	725	725	1050
125	Offshore Nootka	0	969	1800	223	1607	1450
126	Offshore Kyuquot	0	144	3100	0	0	200
127	Offshore Quatsino	672	1947	1000	159	285	350
20 (West)	Juan de Fuca	0	0	0	3089	3912	6850
21	Nitinat	0	1760	700	0	0	400
23-1,2	Alberni Inlet	0	0	150	8307	8307	4600
23-3 to 11	Barkley Sound	0	7511	6250	7437	7437	7500
24	Clayoquot Sound	0	498	450	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	1981	1100	4664	8853	10050
26	Kyuquot Sound	0	798	1100	2781	5257	3400
27	Quatsino Sound	0	1101	600	703	1524	2050
Total		8665	32872	36200	32584	42403	41750

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.