



South Coast Assessment Bulletin July 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 July 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.

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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, July 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	121	6	621	12%	833	1118
111	4	7	175	32%	451	568
12	388	7	2573	16%	3130	5625
13	280	12	6224	4%	7248	10696
14	403	12	4361	10%	5534	8430
15	51	12	1791	12%	3046	3535
16	79	12	3588	10%	4453	5089
17	413	12	3315	13%	4263	4364
18	61	12	1058	9%	1658	2113
19	164	12	1883	13%	2946	3804
20	730	17	6823	9%	9227	7903
21	130	8	244	43%	467	319
121	198	9	764	21%	1190	1798
23	575	9	4813	7%	7850	8788
123	357	9	1676	17%	2044	3092
24	123	8	501	13%	787	647
124	265	9	819	18%	1280	1731
25	510	10	3688	13%	4631	5048
125	140	12	1324	15%	1847	2244
26	Based on Logbooks	8	1181	0%	1643	1839
126	Based on Logbooks	12	1010	0%	1482	1408
27	311	10	1440	5%	2350	1739
127	148	8	732	14%	1171	954
28	44	12	745	13%	1157	1897
29	39	12	1368	10%	2116	3564
Total ⁴	5630		52717	3%	72804	88313

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), July 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	722	15%	1154	2803	937	18%	962	274				
111	193	58%	878	1537								
12	704	22%	1044	3063	2436	19%	2436	2357				
13	7075	7%	7485	9125								
14	4388	14%	4388	4871								
15	1597	27%	2932	2404								
16	1830	18%	2166	2098								
17	2134	16%	2139	1111								
18												
19												
20	1270	14%	1424	3613	8894	14%	10198	1638				
21	938	27%	1760	693								
121	2441	16%	2441	4626	440	28%	440	3693				
23	4424	9%	7524	6321	4414	9%	5348	2384	686	31%	2809	10786
123	3905	15%	4410	7034	1329	22%	1355	2138				
24	247	22%	498	452	1208	16%	1293	412				
124	889	22%	1320	2140	138	49%	202	520				
25	4189	13%	6170	5838	3002	10%	3725	1294				
125	1419	20%	2253	2617	1501	25%	1987	972				
26	2476		3274	2847	1119		1259	351				
126												
27	821	12%	1922	1852	2371	13%	2874	1481				
127	1263	21%	1401	928	194	29%	246	388				
28												
29	482	18%	482	425								
Kept Total ²	43407	4%	57065	66398	27983	6%	32325	17902	686	31%	2809	10786

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), July 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	406	29%	510	1036	171	54%	174	75				
111	0		49	489								
12	4856	25%	5192	7346	3086	26%	3086	2442	29	118%	29	25
13	18567	9%	23960	19131	662	41%	741	5893				
14	14809	10%	18252	15874	358	28%	485	5669				
15	4932	18%	10866	4068	15	59%	146	602				
16	7305	20%	7987	3219	81	79%	81	1144				
17	13767	16%	16248	11282	105	40%	132	1851				
18	1104	23%	1502	215	6	103%	6	41				
19	552	35%	575	955	10	112%	10	165				
20	11773	11%	14720	9009	30093	13%	33959	4324	214	53%	269	55
21	244	57%	737	114	39	73%	43	44				
121	741	28%	741	1964	327	30%	327	5641				
23	21607	9%	30566	20689	1903	20%	2148	2090	49	87%	343	1267
123	4953	22%	5339	6178	2581	27%	2655	4947	3	125%	3	8
24	319	30%	402	399	507	50%	515	142				
124	1300	42%	1527	711	106	34%	106	723				
25	7787	13%	10587	5183	1687	23%	2374	728	7	117%	7	6
125	1741	27%	3618	1971	485	32%	863	611				
26	1379		1771	837	214		217	82				
126	55		55	424	74		74	219				
27	1564	24%	2614	1156	1528	25%	1616	895				
127	137	46%	169	245	809	29%	809	508				
28	835	43%	1406	410	0		0	160				
29	3192	16%	4992	3150	0		0	1004				
Released Total ²	123925	4%	164385	116055	44847	9%	50567	40000	302	42%	651	1361

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), July 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	380	32%	496	727	393	27%	771	591	746	21%	951	1613
111	391	34%	799	217	0		387	175	290	39%	659	840
12	236	34%	537	625	285	35%	637	446	608	22%	1173	1202
13	0		14	35	1240	15%	1578	1468	595	20%	829	824
14	0		0	27	23	43%	189	268	205	29%	360	543
15	0		41	0	48	55%	477	337	87	73%	271	435
16	0		100	0	150	46%	255	915	413	33%	794	1219
17	0		0	0	207	23%	461	306	439	24%	685	831
18	0		0	0	258	35%	334	159	254	32%	331	557
19	71	53%	182	407	109	44%	216	138	534	21%	802	860
20	112	81%	252	186	235	41%	528	485	1465	15%	3028	1563
21	29	67%	40	39	19	99%	31	81	65	69%	128	248
121	2457	24%	4131	4212	175	29%	230	340	214	28%	422	956
23	31	54%	46	78	734	27%	914	764	777	17%	1189	1615
123	1890	36%	2278	2706	568	36%	754	388	860	23%	1044	1161
24	0		29	31	26	83%	37	143	16	75%	64	330
124	703	29%	1190	856	862	47%	1389	814	256	32%	638	1206
25	88	63%	218	251	632	25%	987	714	1073	19%	1510	1553
125	226	35%	517	852	2361	22%	3371	1745	2214	21%	3004	1891
26	32		60	191	577		991	992	1146		1499	1578
126	1408		1817	1450	2530		3942	2355	1603		2253	3327
27	339	29%	450	234	829	16%	1699	790	685	17%	1584	920
127	772	30%	1267	770	2918	19%	4220	1635	1110	16%	1799	1313
28	0		0	3	0		0	3	0		11	16
29	0		0	1	187	28%	552	331	173	26%	528	516
Kept Total ³	9165	13%	14464	13898	15366	8%	24950	16383	15828	6%	25556	27117

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), July 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	20	67%	56	56	184	40%	360	360	169	28%	305	1481
111	0		56	14	0		324	291	7		23	770
12	20	57%	77	145	500	50%	682	280	1123	29%	2023	2988
13	23	96%	27	10	3537	13%	4787	2743	2087	16%	2641	2346
14	0	161%	0	38	478	31%	771	874	1078	20%	1406	1059
15	0		0	0	586	52%	1632	499	134	29%	878	932
16	0		0	0	1142	30%	1787	716	889	48%	1018	2630
17	8	123%	8	0	649	28%	1164	842	1052	21%	1492	1452
18	0		0	26	1356	17%	1587	511	593	33%	783	1065
19	18	103%	18	110	2021	22%	3583	1551	1174	27%	2102	1682
20	0		17	61	1708	22%	2932	1477	1308	22%	2824	2521
21	3	112%	9	0	46	73%	120	12	123	88%	155	85
121	176	45%	356	109	16	35%	61	85	94	43%	110	218
23	16	105%	21	20	656	24%	1092	1175	897	21%	1279	2270
123	223	42%	268	417	415	37%	599	585	274	32%	373	890
24	0		0	1	13	74%	22	63	0		37	344
124	15	85%	118	150	170	44%	235	282	202	46%	427	438
25	0		14	13	636	26%	1046	428	1567	33%	1948	2029
125	7	65%	32	129	774	35%	1622	812	1687	32%	2656	1431
26	5		5	42	59		125	99	436		548	907
126	74		164	534	83		194	275	4548		5766	966
27	92	34%	126	42	329	26%	714	267	578	20%	846	1032
127	92	51%	139	152	258	30%	578	407	1031	26%	1665	1233
28	0		0	0	93	73%	100	8	0		7	92
29	9	116%	9	0	249	37%	751	474	271	31%	301	450
Released Total ³	801	20%	1520	2069	15958	7%	26868	15116	21322	7%	31613	31311

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), July 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	2441	2441	4650	0	0	0
123	Offshore Barkley	3905	4410	7050	0	0	0
124	Offshore Clayoquot	889	1320	2150	0	0	0
125	Offshore Nootka	0	870	1350	1384	1384	1250
126	Offshore Kyuquot	0	0	1900	0	0	200
127	Offshore Quatsino	1138	1275	800	126	126	300
20 (West)	Juan de Fuca	0	0	0	823	823	1450
21	Nitinat	938	1760	700	0	0	0
23-1,2	Alberni Inlet	0	0	150	0	0	0
23-3 to 11	Barkley Sound	4416	7511	6250	0	0	0
24	Clayoquot Sound	247	498	450	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	1981	1100	4189	4189	4700
26	Kyuquot Sound	0	798	1100	2476	2476	1950
27	Quatsino Sound	0	1101	600	821	821	1250
Total		13974	23965	28250	9819	9819	11100

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.