



## South Coast Assessment Bulletin July 2023 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 2023, 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.

## **Contacts:**

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#### **Correct citation for this publication:**

Fisheries and Oceans Canada. 2023. South Coast Assessment Bulletin, July 2023 Creel Survey Update, Recreational Fishery South Coast Tidal Waters: 8p.

*Table 1: Creel survey statistics (number of interviews and flights) and preliminary effort estimates (number of boat trips) by Pacific Fishery Management Area, July 2023.*

Pacific Fishery Management Area (PFMA)	Number of Creel Interviews	Number of Effort Count Flights <sup>1</sup>	Effort			
			Estimate	%SE <sup>2</sup>	Year to date <sup>3</sup>	Year to date 5-yr avg
11	195	7	607	24%	1134	1052
111	60	7	147	41%	230	544
12	428	7	1515	13%	2102	4872
13	198	12	7354	11%	9985	9723
14	332	12	5915	26%	7608	7182
15	9	12	2037	12%	3628	3047
16	29	12	1159	10%	2323	4686
17	312	10	3132	20%	4599	4182
18	71	10	811	9%	1446	1753
19	159	10	1453	14%	2603	3695
20	459	15	5760	12%	8089	8052
21	54	10	105	32%	230	379
121	97	10	733	28%	1130	1546
23	599	10	5825	10%	10812	8778
123	392	10	2424	12%	2813	2825
24	124	10	240	17%	591	699
124	300	10	1343	15%	1704	1680
25	388	8	2858	17%	3437	4815
125	159	9	1429	15%	2982	2073
26	Based on Logbooks	8	887	0%	1234	1883
126	Based on Logbooks	9	1233	0%	1484	1363
27	157	8	1329	14%	1988	1939
127	56	8	1083	12%	1379	931
28	51	10	919	12%	1440	1658
29	84	10	2856	20%	4175	3002
Total <sup>4</sup>	4793		53154	4%	79146	82359

<sup>1</sup> The number of flights where weather conditions allowed effort counts.

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

<sup>3</sup> Cumulative effort (from June 2023) to date summed across periods where surveys are active.

<sup>4</sup> 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 2023. 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 <sup>1</sup>	Year to date 5-yr. average <sup>1</sup>	Estimate	%SE	Year to date <sup>1</sup>	Year to date 5-yr. average <sup>1</sup>	Estimate	%SE	Year to date <sup>1</sup>	Year to date 5-yr. average <sup>1</sup>
11	1904	21%	3453	2283	468	25%	482	364				
111	526	44%	801	1386								
12	1575	24%	1868	2319	420	18%	428	2075				
13	4908	14%	7661	8713	6177	18%	7575	1261				
14	4724	32%	4725	4725	6210	28%	8539	1452				
15	2131	18%	4130	2529	2220	24%	2752	81				
16	300	27%	300	2269	617	31%	785	125				
17	959	26%	970	1331	2241	27%	3882	468				
18												
19												
20	976	22%	1021	2737	3291	28%	3473	3511				
21	270	28%	567	980								
121	530	28%	530	2734	730	51%	730	2527				
23	2679	10%	6628	7315	1454	15%	1677	3280	11172	20%	22156	9153
123	3886	12%	4220	6061	675	25%	685	1986				
24	419	21%	900	373								
124	2526	16%	3004	1841	460	28%	460	488				
25	3105	15%	3711	5386	717	24%	1007	1947				
125	1795	17%	4396	2338	803	24%	1653	1177				
26	1544		2140	3139	129		239	631				
126	1115		1119	564	122		122	40				
27	2004	16%	3478	1946	1176	18%	1603	1825				
127	1542	28%	1600	803	242	44%	277	340				
28					938	38%	1633	128				
29	265	40%	265	354	4673	26%	6721	334	228	88%	228	0
Kept Total <sup>2</sup>	39683	6%	57487	62126	33763	8%	44723	24040	11400	20%	22384	9153

<sup>1</sup>Cumulative kept catch (from June 2023) to date summed across periods where surveys are active.

<sup>2</sup>Including 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 2023. 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 <sup>1</sup>	Year to date 5-yr. average <sup>1</sup>	Estimate	%SE	Year to date <sup>1</sup>	Year to date 5-yr. average <sup>1</sup>	Estimate	%SE	Year to date <sup>1</sup>	Year to date 5-yr. average <sup>1</sup>
11	1404	28%	1654	897	163	29%	163	64	5	144%	5	1
111	306	44%	371	380	1		1	23				
12	4638	17%	5540	6515	480	31%	486	1806	6	106%	10	26
13	13497	13%	20161	22584	17263	17%	20326	5738	29	98%	29	96
14	10159	25%	13852	17623	12450	24%	19504	4646	0	121%	0	0
15	3606	19%	7958	6200	5219	17%	7137	316	5	73%	5	
16	557	28%	1293	4608	1554	37%	2004	1135				
17	7907	22%	10099	12990	6293	31%	10888	1488				
18	689	44%	1186	431	24	81%	119	33				
19	501	41%	953	989	107	53%	115	134				
20	11660	18%	14369	10471	8861	21%	9997	10597				
21	39	50%	70	233	12	92%	12	44				
121	197	50%	197	651	561	68%	561	3600				
23	8786	12%	18267	25044	577	41%	616	2507	739	33%	1612	902
123	2767	17%	2914	5905	1132	28%	1141	4993				
24	134	59%	261	242	85	47%	90	185	0		0	
124	1338	23%	1398	800	1307	26%	1308	692	8	116%	8	12
25	4315	22%	5139	6836	308	42%	508	1202				
125	844	30%	3347	2527	454	44%	956	692				
26	212		382	956	33		49	112				
126	184		184	216	154		154	64				
27	802	25%	1483	1512	473	33%	602	1065	7		7	3
127	335	40%	405	225	482	62%	552	589				
28	624	39%	1512	652	1557	44%	2238	128				
29	2841	25%	5534	3804	7968	28%	10512	988	74	100%	74	14
Released Total <sup>2</sup>	78342	6%	118529	133291	67518	8%	90039	42841	873	30%	1750	1054

<sup>1</sup>Cumulative released catch (from June 2023) to date summed across periods where surveys are active.

<sup>2</sup>Including 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 2023. 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 <sup>1</sup>			
	Estimate	%SE	Year to date <sup>2</sup>	Year to date 5-yr. average <sup>2</sup>	Estimate	%SE	Year to date <sup>2</sup>	Year to date 5-yr. average <sup>2</sup>	Estimate	%SE	Year to date <sup>2</sup>	Year to date 5-yr. average <sup>2</sup>
11	384	40%	906	600	669	29%	1633	579	1050	18%	1704	1288
111	134	49%	177	317	36	54%	48	196	149	37%	258	817
12	311	36%	443	592	181	29%	317	484	847	17%	1269	1162
13	0		0	20	1647	23%	2338	1406	565	26%	1215	888
14	11	72%	11	2	149	50%	442	270	198	51%	292	379
15	1	110%	1	10	273	28%	413	362	54	36%	254	292
16	0		0	30	369	27%	561	800	450	31%	1029	1054
17	0		0	0	114	47%	385	319	273	35%	549	715
18	0		0	0	116	67%	186	186	284	36%	419	515
19	210	47%	450	390	118	39%	196	160	557	24%	967	834
20	10	83%	58	165	226	43%	544	512	795	36%	1302	1853
21	12	73%	39	46	12	66%	30	77	21	50%	127	167
121	1878	35%	3189	4266	279	40%	360	351	582	25%	1057	1042
23	35	58%	47	80	359	28%	722	774	875	29%	1542	1667
123	3847	18%	4155	2530	796	24%	1197	468	1257	17%	1770	1115
24	12	106%	19	29	100	79%	109	94	170	26%	178	315
124	1204	23%	1353	949	1617	19%	1848	732	1044	19%	1232	853
25	82	40%	167	271	132	47%	314	789	390	35%	662	1412
125	184	39%	880	690	2051	33%	4153	1911	1009	20%	1913	1871
26	38		38	168	279		473	1058	225		475	1519
126	2258		2769	1335	2559		2901	2414	952		1148	2954
27	243	33%	323	303	701	18%	942	1023	631	20%	1026	1101
127	1695	23%	1880	855	2966	21%	3824	1974	1537	34%	1822	1122
28	0		0	2	63	63%	63	2	0		0	10
29	0		0	1	145	87%	425	310	36	87%	155	550
Kept Total <sup>3</sup>	12549	11%	16905	13651	15957	9%	24424	17251	13951	7%	22365	25495

<sup>1</sup> All rockfishes including those not identified to species.

<sup>2</sup> Cumulative kept catch (from June 2023) to date summed across periods where surveys are active.

<sup>3</sup> 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 2023. 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 <sup>1</sup>			
	Estimate	%SE	Year to date <sup>2</sup>	Year to date 5-yr. average <sup>1</sup>	Estimate	%SE	Year to date <sup>2</sup>	Year to date 5-yr. average <sup>2</sup>	Estimate	%SE	Year to date <sup>2</sup>	Year to date 5-yr. average <sup>1</sup>
11	106	44%	245	54	311	27%	567	392	600	21%	864	1323
111	22	40%	38	21	79	44%	130	305	94	51%	119	603
12	64	47%	113	124	320	37%	438	398	1654	17%	2441	3108
13	0		0	14	2510	36%	4903	3361	1758	20%	2651	2667
14	0		0	30	427	55%	556	958	496	78%	647	1475
15	0		0	0	363	40%	1025	840	98	35%	462	1061
16	0		0	0	444	37%	996	1021	318	38%	1240	2484
17	39	106%	46	2	443	32%	773	965	695	33%	929	1617
18	0		0	19	421	35%	688	710	383	42%	407	994
19	79	103%	140	113	1176	28%	2334	2140	615	34%	1066	1972
20	0		39	52	485	34%	1467	1962	934	26%	2104	2541
21	5	88%	11	2	5	128%	29	38	21	78%	47	104
121	541	42%	1151	155	59	36%	99	84	245	38%	452	95
23	16	103%	16	21	482	25%	1627	1058	935	20%	2621	1443
123	747	32%	902	284	1060	24%	1619	587	735	17%	930	736
24	0		0	1	5	76%	15	41	62	62%	98	463
124	130	48%	155	177	548	23%	637	206	318	25%	423	410
25	19	94%	35	14	157	36%	245	628	240	39%	310	1838
125	90	64%	269	88	757	33%	2290	1153	602	27%	2108	1730
26									40		81	797
126	448		496	448	89		106	196	633		872	1948
27	55	41%	151	67	190	31%	349	391	488	23%	826	1101
127	411	39%	429	138	332	41%	359	460	954	27%	1181	1192
28	0		0	0	0		0	30	0		0	85
29	0		0	2	110	49%	392	522	303	83%	320	464
Released Total <sup>3</sup>	2772	17%	4236	1826	10773	11%	21644	18446	13221	7%	23199	32251

<sup>1</sup> All rockfishes including those not identified to species.

<sup>2</sup> Cumulative released catch (from June 2023) to date summed across periods where surveys are active.

<sup>3</sup> 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 2023, divided into Aggregate Abundance-based Management (AABM) and Individual Stock-based Management (ISBM) groupings.*

Area	Region	AABM			ISBM		
		Estimate	Year to date <sup>1</sup>	Year to date 5-yr. average <sup>2</sup>	Estimate	Year to date <sup>1</sup>	Year to date 5-yr. average <sup>2</sup>
121	Swiftsure Bank	530	530	2750	0	0	0
123	Offshore Barkley	3886	4220	6050	0	0	0
124	Offshore Clayoquot	2526	3004	1850	0	0	0
125	Offshore Nootka	295	2896	1000	1500	1500	1300
126	Offshore Kyuquot	1095	1098	800	0	0	150
127	Offshore Quatsino	1369	1427	750	173	173	250
20 (West)	Juan de Fuca	0	0	0	568	568	1150
21	Nitinat	270	567	1000	0	0	0
23-1,2	Alberni Inlet	0	0	150	0	0	0
23-3 to 11	Barkley Sound	2648	6596	7250	0	0	0
24	Clayoquot Sound	419	900	350	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	606	1150	3105	3105	4250
26	Kyuquot Sound	0	597	1200	1544	1544	2150
27	Quatsino Sound	0	1474	750	2004	2004	1200
Total		14702	28238	26800	10567	10567	12000

<sup>1</sup>Cumulative kept catch (from June 2023) to date summed across periods where surveys are active.

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