



## South Coast Assessment Bulletin June 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 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.**

### 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.

## **Contacts:**

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

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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, June 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	81	6	527	31%	527	446
111	43	6	83	55%	83	290
12	124	6	587	15%	587	1154
13	120	8	2631	16%	2631	2404
14	141	8	1693	15%	1693	1899
15	27	8	1854	12%	1854	894
16	20	8	1164	19%	1164	1232
17	141	8	1467	19%	1467	1318
18	70	8	635	13%	635	853
19	90	8	1150	18%	1150	1688
20	192	10	2329	19%	2329	2189
21	73	9	125	32%	125	221
121	84	9	397	18%	397	397
23	544	9	4987	18%	4987	3571
123	197	9	389	13%	389	601
24	63	9	352	37%	352	193
124	100	10	362	18%	362	405
25	118	8	579	18%	579	967
125	72	9	1553	31%	1553	554
26	Based on Logbooks	7	347	0%	347	533
126	Based on Logbooks	9	251	0%	251	338
27	89	7	659	14%	659	646
127	27	7	296	32%	296	242
28	30	8	521	16%	521	684
29	27	8	1320	23%	1320	1335
Total <sup>4</sup>	2498		26258	5%	26258	25054

<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), June 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	1549	30%	1549	1090								
111	275	51%	275	739								
12	293	42%	293	581								
13	2753	27%	2753	1418	1398	35%	1398	676				
14					2329	24%	2329	388				
15	2754	20%	2754	1022	602	42%	602	10				
16					168	46%	168	23				
17					1640	27%	1640	166				
18												
19												
20					182	49%	182	843				
21	297	28%	297	450								
121												
23	3948	15%	3948	3649	223	34%	223	483	10984	32%	10984	2556
123	334	18%	334	939								
24	481	45%	481	124								
124	478	24%	478	292								
25	606	22%	606	1151	290	27%	290	445				
125	2601	27%	2601	619	851	43%	851	277				
26	597		597	982	110		110	191				
126												
27	1474	28%	1474	732	427	33%	427	306				
127												
28					695	33%	695	24				
29					2047	40%	2047	104				
Kept Total <sup>2</sup>	18440	8%	18440	13788	10962	12%	10962	3936	10984	32%	10984	2556

<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), June 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	251	52%	251	354	0		0	3				
111	65	87%	65	203	0		0	9				
12	902	25%	902	1017	5	121%	5	101	4	113%	4	
13	6665	19%	6665	6030	3064	35%	3064	3084				
14	3694	18%	3694	6382	7054	23%	7054	1258				
15	5142	19%	5142	2559	2128	32%	2128	59				
16	736	27%	736	702	450	42%	450	44				
17	2192	24%	2192	3063	4595	27%	4595	474				
18	498	19%	498	109	95	101%	95	23				
19	453	18%	453	248	8	68%	8	75				
20	2708	35%	2708	1785	1136	40%	1136	2254				
21	32	52%	32	138	0		0	22				
121	0		0	98								
23	9481	18%	9481	11019	39	77%	39	318	872	30%	872	226
123	147	28%	147	1082	9	44%	9	196				
24	127	67%	127	104	6	79%	6	13				
124	60	62%	60	99	2	162%	2	25				
25	824	33%	824	1863	200	45%	200	486				
125	2503	38%	2503	1868	502	52%	502	240				
26	170		170	347	16		16	30				
126												
27	681	27%	681	455	129	39%	129	108				
127	70	134%	70	34	70	134%	70	5				
28	888	36%	888	353	681	30%	681	72				
29	2693	46%	2693	1808	2544	36%	2544	367				
Released Total <sup>2</sup>	40982	8%	40982	41720	22733	12%	22733	9266	876	30%	876	226

<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), June 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	521	42%	521	328	964	71%	964	268	657	40%	657	667
111	43	87%	43	143	13	193%	13	145	110	63%	110	593
12	132	37%	132	214	136	42%	136	208	423	26%	423	404
13	0		0	6	691	16%	691	525	650	25%	650	344
14	0		0	0	293	47%	293	155	93	41%	93	160
15	0		0	13	141	38%	141	251	200	38%	200	207
16	0		0	44	192	58%	192	193	579	39%	579	282
17	0		0	0	271	33%	271	133	278	35%	278	202
18	0		0	0	69	36%	69	105	135	46%	135	321
19	240	62%	240	185	78	40%	78	72	408	34%	408	374
20	49	64%	49	82	318	30%	318	157	508	25%	508	827
21	27	63%	27	32	18	78%	18	50	105	40%	105	140
121	1311	18%	1311	1168	81	30%	81	148	475	21%	475	260
23	11	111%	11	46	363	32%	363	325	667	27%	667	826
123	308	26%	308	366	401	24%	401	125	512	17%	512	345
24	8	104%	8	17	9	71%	9	26	8	81%	8	195
124	150	46%	150	404	231	43%	231	205	187	32%	187	337
25	85	42%	85	197	181	43%	181	392	273	29%	273	529
125	696	33%	696	202	2102	44%	2102	554	901	33%	901	677
26	0		0	89	193		193	300	249		249	353
126	511		511	376	342		342	451	196		196	555
27	80	46%	80	104	241	39%	241	447	396	24%	396	479
127	185	71%	185	252	858	30%	858	557	286	36%	286	415
28	0		0	2	0		0	2	0		0	10
29	0		0	1	280	49%	280	188	118	54%	118	383
Kept Total <sup>3</sup>	4357	12%	4357	4271	8466	16%	8466	5982	8414	8%	8414	9885

<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), June 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	138	66%	138	36	256	41%	256	281	265	44%	265	537
111	16	98%	16	17	51	89%	51	272	27	55%	27	491
12	49	57%	49	47	119	51%	119	154	788	42%	788	1032
13	0		0	2	2392	24%	2392	1401	891	24%	891	1208
14	0		0	0	130	63%	130	467	151	57%	151	627
15	0		0	0	663	41%	663	723	382	37%	382	594
16	0		0	0	553	53%	553	285	922	38%	922	498
17	7	110%	7	0	330	48%	330	455	235	45%	235	520
18	0		0	0	267	27%	267	215	24	70%	24	435
19	60	108%	60	54	1158	33%	1158	1145	451	34%	451	980
20	39	80%	39	11	982	30%	982	764	1171	33%	1171	1074
21	6	122%	6	3	23	63%	23	44	26	55%	26	56
121	610	20%	610	97	39	38%	39	47	207	54%	207	54
23	0		0	4	1145	31%	1145	471	1685	32%	1685	645
123	155	48%	155	38	559	25%	559	152	196	21%	196	254
24	0		0	0	10	85%	10	8	36	72%	36	387
124	25	82%	25	180	88	45%	88	53	103	40%	103	219
25	16	82%	16	14	88	42%	88	239	71	38%	71	691
125	179	65%	179	37	1533	51%	1533	486	1509	41%	1509	729
26	0		0	6	7		7	27	41		41	308
126	48		48	106	18		18	84	240		240	863
27	96	87%	96	12	158	40%	158	178	337	26%	337	372
127	18	132%	18	94	27	83%	27	124	227	60%	227	313
28	0		0	0	0		0	8	0		0	85
29	0		0	0	281	83%	281	502	16	117%	16	422
Released Total <sup>3</sup>	1462	17%	1462	758	10877	12%	10877	8585	10001	11%	10001	13394

<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), June 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	0	0	2100	0	0	0
123	Offshore Barkley	334	334	950	0	0	0
124	Offshore Clayoquot	478	478	450	0	0	0
125	Offshore Nootka	2601	2601	750	0	0	0
126	Offshore Kyuquot	0	0	0	0	0	0
127	Offshore Quatsino	0	0	200	0	0	0
20 (West)	Juan de Fuca	0	0	0	0	0	650
21	Nitinat	297	297	450	0	0	0
23-1,2	Alberni Inlet	0	0	150	0	0	0
23-3 to 11	Barkley Sound	3948	3948	3600	0	0	0
24	Clayoquot Sound	481	481	150	0	0	0
25	Nootka Snd. / Esperanza Inlet	606	606	1150	0	0	0
26	Kyuquot Sound	597	597	1200	0	0	0
27	Quatsino Sound	1474	1474	750	0	0	0
Total		10816	10816	11900	0	0	650

<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.