



South Coast Assessment Bulletin June 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.

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, June 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	76	7	212	24%	212	506
111	15	7	276	30%	276	294
12	88	7	557	24%	557	1554
13	146	8	1024	12%	1024	3186
14	101	8	1173	15%	1173	2527
15	36	8	1254	10%	1254	985
16	58	8	865	16%	865	1320
17	179	8	948	15%	948	1538
18	43	8	600	12%	600	1037
19	112	8	1063	11%	1063	1753
20	354	15	2404	11%	2404	2309
21	97	9	223	64%	223	193
121	132	9	425	16%	425	370
23	429	9	3037	10%	3037	3388
123	172	9	368	16%	368	681
24	68	9	285	22%	285	176
124	121	9	462	21%	462	396
25	180	7	943	13%	943	1048
125	123	7	523	21%	523	552
26	Based on Logbooks	7	462	0%	462	519
126	Based on Logbooks	9	472	0%	472	329
27	92	7	910	15%	910	548
127	42	6	439	28%	439	230
28	34	8	412	11%	412	782
29	24	8	748	22%	748	1566
Total ⁴	2746		20085	3%	20085	27787

¹ The number of flights where weather conditions allowed effort counts; not including on-water 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
- note that WCVI 5 year averages including September are unavailable (N/A)

⁴ Individual flights cover multiple PFMA's, 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 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	431	28%	431	1376								
111	685	40%	685	775								
12	340	72%	340	913								
13	410	23%	410	2306								
14												
15	1335	19%	1335	1097								
16	336	27%	336	521								
17												
18												
19												
20	154	38%	154	888	1304	27%	1304	640				
21	823	37%	823	315								
121												
23	3100	11%	3100	3405	934	17%	934	446	2123	25%	2123	2663
123	505	18%	505	1114								
24	251	30%	251	167								
124	431	24%	431	394								
25	1981	13%	1981	1115	723	21%	723	358				
125	835	25%	835	586	486	24%	486	194				
26	798		798	901	141		141	207				
126												
27	1101	20%	1101	589	503	33%	503	296				
127	138	70%	138	116								
28												
29												
Kept Total ²	13654	6%	13654	16578	4091	12%	4091	2141	2123	25%	2123	2663

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), June 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	104	46%	104	443	3	80%	3	10				
111	49	110%	49	253								
12	336	45%	336	2022								
13	5393	13%	5393	5868	79	38%	79	3112				
14	3443	17%	3443	6252	127	62%	127	1480				
15	5934	16%	5934	1432	131	64%	131	184				
16	681	29%	681	553								
17	2481	22%	2481	2885	27	53%	27	527				
18	398	34%	398	63	0		0	46				
19	24	71%	24	266								
20	2947	15%	2947	1529	3866	24%	3866	1679	55	73%	55	13
21	493	43%	493	50	4	173%	4	28				
121	0		0	407								
23	8959	12%	8959	9345	245	29%	245	340	294	37%	294	203
123	386	23%	386	1212	74	36%	74	184				
24	83	42%	83	236	8	91%	8	12				
124	227	44%	227	177	0		0	31				
25	2800	19%	2800	1204	687	34%	687	393				
125	1876	28%	1876	1402	379	31%	379	166	3	116%	3	
26	392		392	321	3		3	30				
126												
27	1050	34%	1050	230	88	59%	88	182				
127	32	121%	32	36	0		0	32				
28	571	34%	571	266								
29	1800	30%	1800	1547	0	121%	0	459				
Released Total ²	40459	5%	40459	37999	5721	17%	5721	8895	352	33%	352	216

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), June 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	116	37%	116	408	378	38%	378	239	204	26%	204	837
111	408	45%	408	98	387	73%	387	112	369	80%	369	677
12	300	57%	300	239	353	67%	353	174	566	46%	566	437
13	14	63%	14	31	338	23%	338	611	233	24%	233	343
14	0	146%	0	8	166	36%	166	153	154	37%	154	216
15	41	91%	41	0	429	44%	429	182	184	50%	184	208
16	100	83%	100	0	105	78%	105	228	381	39%	381	330
17	0		0	0	254	27%	254	109	245	24%	245	232
18	0		0	0	76	41%	76	112	77	30%	77	423
19	111	36%	111	206	108	39%	108	57	269	26%	269	372
20	140	37%	140	121	292	28%	292	136	1564	15%	1564	591
21	11	69%	11	30	12	128%	12	48	63	57%	63	111
121	1675	17%	1675	910	55	41%	55	142	210	23%	210	268
23	15	76%	15	43	180	34%	180	448	412	31%	412	887
123	388	23%	388	404	186	27%	186	98	184	28%	184	349
24	29	82%	29	14	12	62%	12	44	48	62%	48	178
124	488	53%	488	355	526	57%	526	157	382	40%	382	458
25	130	37%	130	194	354	29%	354	426	437	26%	437	727
125	292	51%	292	189	1011	34%	1011	445	789	29%	789	627
26	28		28	86	414		414	237	355		355	368
126	409		409	409	1412		1412	477	651		651	853
27	111	52%	111	85	870	30%	870	317	899	23%	899	286
127	495	44%	495	212	1302	37%	1302	435	691	41%	691	461
28	0		0	3	0		0	2	11	86%	11	0
29	0		0	1	365	36%	365	201	355	42%	355	332
Kept Total ³	5301	11%	5301	4046	9585	11%	9585	5590	9733	8%	9733	10571

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), June 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	36	62%	36	29	175	38%	175	267	138	33%	138	581
111	56	89%	56	7	324	84%	324	242	16	111%	16	600
12	57	76%	57	65	183	48%	183	125	902	49%	902	923
13	4	98%	4	0	1250	18%	1250	1285	555	19%	555	1250
14	0	146%	0	0	293	45%	293	419	327	39%	327	634
15	0		0	0	1046	27%	1046	362	743	38%	743	452
16	0		0	0	644	45%	644	149	129	33%	129	510
17	0		0	1	515	28%	515	387	442	23%	442	431
18	0		0	0	232	31%	232	251	190	35%	190	559
19	0		0	56	1562	22%	1562	797	927	24%	927	726
20	17	110%	17	9	1225	27%	1225	548	1516	27%	1516	1003
21	5	91%	5	0	74	88%	74	15	32	147%	32	68
121	180	27%	180	55	45	46%	45	41	15	50%	15	69
23	5	114%	5	4	436	33%	436	777	382	29%	382	1507
123	45	26%	45	56	184	32%	184	220	97	39%	97	359
24	0		0	0	9	90%	9	22	37	76%	37	219
124	102	77%	102	149	65	60%	65	66	225	115%	225	172
25	14	71%	14	13	410	42%	410	157	380	37%	380	1191
125	25	80%	25	53	849	34%	849	285	969	40%	969	654
26	0		0	8	66		66	15	113		113	350
126	90		90	113	111		111	149	1220		1220	561
27	34	61%	34	8	385	44%	385	101	269	30%	269	352
127	47	93%	47	114	320	56%	320	67	634	39%	634	294
28	0		0	0	7	95%	7	9	7	100%	7	92
29	0		0	0	502	40%	502	511	30	71%	30	461
Released Total ³	717	21%	717	740	10912	8%	10912	7267	10295	10%	10295	14018

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), June 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	0	0	1700	0	0	0
123	Offshore Barkley	505	505	1100	0	0	0
124	Offshore Clayoquot	431	431	600	0	0	0
125	Offshore Nootka	835	835	700	0	0	0
126	Offshore Kyuquot	0	0	1500	0	0	0
127	Offshore Quatsino	138	138	200	0	0	0
20 (West)	Juan de Fuca	0	0	0	0	0	450
21	Nitinat	823	823	300	0	0	0
23-1,2	Alberni Inlet	0	0	150	0	0	0
23-3 to 11	Barkley Sound	3095	3095	3350	0	0	0
24	Clayoquot Sound	251	251	200	0	0	0
25	Nootka Snd. / Esperanza Inlet	1981	1981	1100	0	0	0
26	Kyuquot Sound	798	798	1100	0	0	0
27	Quatsino Sound	1101	1101	600	0	0	0
Total		9958	9958	12600	0	0	450

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

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