



**South Coast Assessment Bulletin
August 2021 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 through 29 and 111, 121 to 127. These estimates are generated from data collected by the DFO's South Coast Creel Survey. A brief overview of the survey, the study area and methods used to collect data and generate these estimates is provided in the first bulletin of 2021, 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. The online British Columbia Sport Fishing Guide will provide you with information on regulations and management measures in place. The guide can be accessed from the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage at:

<http://www.pac.dfo-mpo.gc.ca/fm-gp/rec/index-eng.html>

In-season management measure are sometimes required that are not published in the guide. These decisions are implemented by the issuance of a fishery notice which can be viewed at:

<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 to August inclusive.

Recreational Catch Estimates:

A summary 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.

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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, August 2021.

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	122	7	440	21%	1337	1702
111	56	7	265	41%	1165	539
12	502	7	3425	9%	7675	11607
13	595	12	10955	8%	22324	19316
14	338	12	6452	8%	15363	14508
15	109	12	2325	12%	5187	5934
16	55	12	3061	8%	8371	7416
17	146	12	2757	14%	6953	7848
18	54	12	1083	7%	2927	4261
19	283	12	2556	12%	5404	7201
20	723	14	11100	16%	17452	22358
21	17	6	124	51%	552	518
121	23	7	196	39%	1207	2713
23	1335	9	13406	8%	25907	22073
123	213	9	1019	20%	2615	3541
24	194	9	1060	13%	1927	2071
124	92	9	381	24%	1750	1877
25	571	9	5045	14%	9967	12168
125	39	8	157	18%	712	1932
26	Pending Review	7		%	2745	2837
126	Pending Review	7		%	394	1801
27	236	8	1284	12%	3555	3614
127	46	8	362	31%	760	1354
28	137	12	1741	9%	3044	3913
29	98	12	2235	13%	4730	9398
Total ⁴	6086		71429	4%	154023	172500

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 2021) 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), August 2021. 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	857	19%	2708	3922	336	25%	569	622				
111	779	43%	3196	1350	282	46%	750	85				
12	1262	13%	2485	5804	292	20%	2460	3154				
13	8060	12%	17611	17505	182	33%	270	2475				
14	4252	14%	8294	7151	304	42%	514	3542				
15	1002	23%	3162	3378								
16	1384	31%	4373	2162								
17	692	32%	2029	1735	134	79%	249	1269				
18	281	18%	281	444								
19	603	22%	603	1570								
20	11524	9%	12869	16646	1168	23%	3677	3587				
21	446	51%	1548	1081								
121					261	53%	2297	5757				
23	22907	7%	30988	20465	3889	9%	7464	5485				
123	2556	17%	5709	8940	1931	27%	4388	4196				
24	1417	19%	2304	2220	1010	17%	1506	1045				
124	328	23%	1868	3970	156	40%	613	572				
25	5204	14%	10794	12226	1965	12%	4068	3425				
125												
26												
126												
27	812	18%	2668	2896	649	18%	2895	3699				
127												
28	173	31%	181	584	315	29%	410	453				
29	192	41%	277	2981	205	60%	295	647				
Kept Total ²	64731	4%	113948	117030	13079	6%	32425	40013	0		0	0

¹Cumulative kept catch (from June 2021) 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 2021. 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	220	42%	976	1362	55	58%	81	247				
111	144	57%	532	566	10	104%	19	50	1	160%	1	
12	3897	15%	10473	10705	1404	16%	2880	5594	9	103%	9	144
13	24858	11%	59366	24501	3002	30%	3388	12828	27	59%	71	381
14	13385	13%	33963	20106	1841	20%	2840	12104				
15	4693	28%	10268	2761	188	45%	210	1588				
16	2310	65%	7737	3452	140	105%	265	1607				
17	7827	23%	21461	11527	852	43%	1500	3985				
18	263	32%	271	489	26	69%	26	229	0		0	126
19	915	22%	1240	2135	139	44%	162	223	34	74%	34	16
20	18942	19%	26616	20485	3578	21%	12325	6673	510	36%	598	236
21	0		112	124	0		3	116	5	88%	5	
121	44	70%	88	3252	790	45%	1398	8251				
23	20860	9%	55149	24164	971	18%	4716	3179	1978	20%	5435	705
123	3023	30%	7680	7341	5369	36%	12706	8478				
24	568	28%	1282	857	563	25%	729	775				
124	39	81%	512	1290	471	51%	1455	788				
25	8417	14%	24722	8273	741	27%	2218	1358	0		0	8
125	55	77%	442	547	0		273	968				
26												
126												
27	1495	22%	4511	2126	531	27%	3061	1915				
127	5		90	320	37		228	914				
28	456	27%	887	529	136	46%	215	282	232	49%	232	35
29	1566	27%	3754	4795	221	75%	479	2194	297	45%	317	135
Released Total ²	113982	5%	272132	151707	21065	11%	51177	74346	3093	15%	6702	1786

¹Cumulative released catch (from June 2021) 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 2021. 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	223	25%	802	1025	548	34%	1254	891	927	21%	2425	2654
111	106	53%	505	203	145	79%	738	73	214	38%	1816	568
12	256	26%	989	1164	126	27%	522	730	660	18%	1675	2218
13	33	82%	102	39	1453	19%	2702	2520	1265	33%	2201	1229
14	10	109%	12	38	94	50%	528	600	139	45%	672	1129
15	0		0	0	117	79%	413	468	44	69%	203	745
16	0		0	0	541	38%	1282	1140	655	53%	2197	1975
17	0		0	0	371	20%	548	722	881	29%	1982	1663
18	0		0	0	16	61%	110	386	84	61%	536	1274
19	8	111%	716	468	80	69%	193	194	724	26%	1422	1300
20	75	73%	188	365	539	33%	1614	728	1942	17%	3381	4166
21	15	88%	37	52	16	107%	75	70	20	54%	91	338
121	464	57%	4136	5582	80	83%	453	499	160	56%	507	1380
23	0		136	238	1173	17%	2478	1206	2280	13%	4581	3943
123	2298	34%	5004	3773	108	57%	268	290	425	79%	549	760
24	2	119%	70	159	201	36%	370	425	412	24%	796	994
124	555	37%	2266	957	625	41%	1977	1179	242	35%	1834	1289
25	36	53%	393	442	652	43%	1873	1224	452	24%	1267	3038
125	218	41%	405	1161	427	35%	2064	1898	216	36%	1067	2573
26												
126												
27	117	45%	563	584	525	25%	2974	1433	720	23%	2315	2306
127	584	29%	1094	1247	1479	34%	2247	2247	283	22%	636	1906
28	0		0	5	0		0	34	0		0	157
29	0		0	2	0		229	502	186	69%	1147	767
Kept Total ³	5000	18%	17418	17504	9316	9%	24912	19459	12931	7%	33300	38372

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2021) 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 2021. 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	11	58%	99	87	295	42%	724	471	813	26%	2316	2028
111	20	73%	82	11	94	82%	635	255	330	31%	1778	689
12	26	51%	241	241	143	35%	342	431	4779	13%	7692	5080
13	0		0	57	4820	15%	8763	4012	1419	27%	4195	3140
14	0		0	39	593	37%	6012	2130	896	38%	3071	2324
15	0		0	4	376	83%	806	560	275	32%	1160	1655
16	0		0	1	168	61%	1964	1143	1570	39%	4005	4075
17	0		0	1	363	43%	1870	698	694	32%	2101	1914
18	0		0	58	221	73%	458	629	237	44%	577	1750
19	8	111%	23	115	1179	29%	2823	2072	526	33%	1447	2293
20	0		33	103	2062	30%	3956	2723	1568	27%	4004	5101
21	0		0	1	0		0	49	21	154%	54	121
121	7	96%	100	216	0		12	149	0		75	415
23	5	109%	18	53	1127	28%	2498	1815	1512	18%	3159	4063
123	533	59%	668	519	101	50%	384	235	276	108%	316	501
24	0		4	13	58	53%	172	185	174	34%	236	533
124	20	64%	808	61	141	43%	415	324	212	49%	1004	536
25	0		31	149	260	47%	942	992	503	36%	1924	4014
125	3	116%	17	144	194	61%	999	460	112	54%	1196	1193
26												
126												
27	0		14	124	220	57%	704	542	305	47%	1063	2646
127	40	67%	126	264	40		213	420	199	70%	686	1246
28	0		0	0	4	82%	15	36	0		46	294
29	0		0	0	125	35%	154	765	0		982	678
Released Total ³	673	47%	2264	2261	12584	9%	34861	21096	16421	8%	43087	46289

¹ All rockfishes; including those not identified to species

² Cumulative released catch (from June 2021) 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 2021, 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	833	7750	0	0	0
123	Offshore Barkley	2556	5709	8950	0	0	0
124	Offshore Clayoquot	328	1868	4950	0	0	0
125	Offshore Nootka	0	429	2200	0	0	0
126	Offshore Kyuquot	0	0	3350	0	0	0
127	Offshore Quatsino	0	122	1200	0	0	0
20 (West)	Juan de Fuca	0	0	0	5074	6123	6800
21	Nitinat	0	1101	550	446	446	550
23-1,2	Alberni Inlet	0	0	150	7051	7051	3550
23-3 to 11	Barkley Sound	0	8065	6950	15857	15857	9900
24	Clayoquot Sound	0	887	1350	1417	1417	850
25	Nootka Snd. / Esperanza Inlet	0	1803	1150	5204	8991	11100
26	Kyuquot Sound	0	1267	800	0	3137	2800
27	Quatsino Sound	0	484	700	812	2184	2200
Total		2884	22568	40050	35861	45206	37750

¹Cumulative kept (from June 2021) to date summed across periods where surveys are active.

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