



## South Coast Assessment Bulletin September 2020 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 DFOs 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 2020, 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 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 July to September 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.

## **Contacts:**

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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, September 2020.**

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	No Survey This Month			%	1184	1160
111	No Survey This Month			%	185	767
12	No Survey This Month			%	6506	10873
13	142	9	3227	13%	15926	21607
14	228	8	4925	15%	18130	13633
15	No Survey This Month	9		%	3325	6165
16	21	7	1081	17%	11390	7388
17	167	7	2146	21%	9463	7517
18	42	7	2586	29%	5065	5160
19	158	8	2687	16%	7659	7862
20	544	10	9342	17%	30895	27859
21	4	5	35	4%	272	548
121	18	4	173	19%	1511	2401
23	185	6	5740	6%	22216	23168
123	23	6	425	16%	2543	3642
24	44	6	310	27%	1344	1799
124	30	6	136	31%	1042	1885
25	No Survey This Month			%	9817	11558
125	No Survey This Month			%	666	1729
26	No Survey This Month			%	3685	1777
126	No Survey This Month			%	701	1772
27	No Survey This Month			%	3092	3073
127	No Survey This Month			%	672	1298
28	71	7	2377	26%	4808	5567
29	89	7	6317	33%	10027	12821
Total <sup>4</sup>	1771		41507	7%	172124	183029

<sup>1</sup> The number of flights where weather conditions allowed effort counts; not including on-water 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 July 2020) to date summed across periods where surveys are active  
- note that WCVI 5 year averages including September are unavailable (N/A)

<sup>4</sup> 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), September 2020. 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												
111												
12												
13	2121	24%	13414	19222	368	37%	549	3197				
14	1708	19%	9580	5213	115	44%	2098	2956				
15												
16	27	167%	3665	1845								
17	283	35%	1506	1693	98	46%	1316	1010				
18	114	89%	195	955	65	64%	65	66				
19	314	31%	877	2454	223	38%	318	189				
20	1700	16%	12569	21593	10248	14%	19026	7708	18	107%	18	2205
21	10	100%	417	1279								
121	0		1639	7818	428	41%	3677	5281				
23	1570	11%	19872	18743	739	23%	2652	7656				
123	247	34%	5538	9733	508	57%	3935	3957				
24	46	71%	908	1834	125	63%	219	1208				
124	5	112%	1445	4096								
25												
125												
26												
126												
27												
127												
28	749	31%	919	1087	355	46%	674	697				
29	2337	54%	2564	5208	605	56%	1338	748	0		0	22059
Kept Total <sup>2</sup>	11231	13%	75108	102773	13877	11%	35867	34673	18	109%	18	24264

<sup>1</sup>Cumulative kept catch (from July 2020) 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), September 2020. 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												
111												
12												
13	1988	23%	23536	20822	1206	50%	3501	15645				
14	5606	20%	27243	15182	1747	37%	6378	12486				
15												
16	384	60%	9080	1406								
17	7918	30%	26067	7274	581	42%	3582	3624				
18	1249	58%	1636	537	340	90%	432	259				
19	510	30%	2074	2708	815	39%	1055	869				
20	3332	26%	22611	21964	22361	18%	39535	19944	0		50	606
21	0		27	225								
121	0		61	3680	92	89%	3458	8189				
23	654	26%	8471	20532	274	39%	1279	3357				
123	445	52%	3128	7523	1236	53%	6792	8617				
24	53	60%	250	690	23	89%	67	823				
124	0		276	1537								
25												
125												
26												
126												
27												
127												
28	632	59%	1247	439	316	51%	506	572				
29	6138	41%	10530	4566	669	74%	2255	1958	91	132%	91	237
Released Total <sup>2</sup>	28909	14%	136237	109085	29660	15%	68840	76343	91	132%	141	843

<sup>1</sup>Cumulative released catch (from July 2020) 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), September 2020. 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>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												
111												
12												
13	0		20	27	235	35%	867	2700	239	44%	1429	1751
14	5	112%	8	28	31	115%	224	643	360	35%	848	1166
15												
16	0		0	0	53	69%	3632	1047	643	54%	3534	2736
17	0		0	0	148	48%	734	1003	264	35%	1492	1884
18	0		0	0	642	56%	756	509	593	61%	1210	1344
19	209	39%	633	651	229	44%	366	167	444	36%	1494	1263
20	150	56%	493	287	695	27%	1616	878	1836	22%	5723	4117
21	14	71%	93	55	28	71%	53	178	38	59%	149	598
121	173	46%	3385	4616	178	72%	737	369	220	75%	1462	1071
23	0		156	176	116	35%	963	738	285	36%	2427	3733
123	964	46%	4312	3092	45	92%	233	361	24	88%	679	1004
24	17	70%	54	118	165	48%	351	309	219	35%	576	791
124	323	46%	736	938	20	79%	502	1530	33	63%	588	1676
25												
125												
26												
126												
27												
127												
28	0		0	0	0		0	15	75	45%	75	192
29	0		0	0	48	137%	296	314	757	66%	1393	388
Kept Total <sup>3</sup>	1855	27%	9890	9988	2633	18%	11330	10761	6030	15%	23079	23714

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

<sup>2</sup> Cumulative kept catch (from July 2020) 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), September 2020. 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												
111												
12												
13	0		24	64	1008	34%	4709	5047	418	46%	2737	2931
14	15	101%	20	40	616	30%	2900	2529	636	29%	2400	3105
15												
16	0		0	0	185	56%	2536	905	872	44%	7726	3362
17	0		0	0	469	38%	1823	543	522	33%	2140	1799
18	0		82	48	4137	92%	4815	590	3143	78%	4146	1786
19	44	61%	125	108	1464	38%	3680	1642	1096	35%	3284	1880
20	0		76	79	452	37%	2814	3048	1134	32%	4596	5575
21	0		0	58	0		17	197	0		9	302
121	0		68	137	0		111	121	0		149	377
23	0		0	59	463	59%	1884	1232	315	26%	2312	2660
123	1		58	452	0		176	227	12	88%	155	480
24	3	100%	13	6	125	58%	231	140	120	80%	193	552
124	5	112%	22	78	21	79%	322	427	14	69%	413	684
25												
125												
26												
126												
27												
127												
28	0		0	0	0		0	57	0		0	290
29	0		0	0	55	119%	234	447	48	131%	89	399
Released Total <sup>3</sup>	68	48%	488	1129	8995	43%	26252	17152	8330	31%	30349	26182

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

<sup>2</sup> Cumulative released catch (from July 2020) 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), September 2020, 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	1639	7800	0	0	0
123	Offshore Barkley	247	5538	9700	0	0	150
124	Offshore Clayoquot	5	1445	4050	0	0	150
125	Offshore Nootka	0	99	2050	0	0	50
126	Offshore Kyuquot	0	407	3650	0	0	100
127	Offshore Quatsino	0	313	1500	0	0	0
20 (West)	Juan de Fuca	0	0	0	793	6445	7850
21	Nitinat	0	266	300	10	151	1000
23 - 3 to 11	Barkley Sound	0	2745	3450	1057	11110	11650
23 -1,2	Alberni Inlet	0	16	50	513	6000	3600
24	Clayoquot Sound	0	336	1000	46	572	850
25	Nootka Snd. / Esperanza Inlet	0	0	0	0	9070	13050
26	Kyuquot Sound	0	0	0	0	2988	2400
27	Quatsino Sound	0	0	0	0	1076	2550
Total		252	12804	33550	2419	37412	43400

<sup>1</sup>Cumulative kept (from July 2020) to date summed across periods where surveys are active.

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