



## South Coast Assessment Bulletin August 24, 2017 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 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 2017, available on the Federal Science Library catalogue:

<http://science-libraries.canada.ca/eng/home/>

The search term "South Coast Creel Bulletin" 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.

## **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.

Please be aware that catch by month comparisons to past years may be affected by changes in management measures. Refer to the Recreational Fishery Links above for the management measures in each area.

## **Contacts:**

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

***Johnstone Strait and North Island Surveys (PFMA's 11, 12, 27, & 127)***

Pieter Van Will - Program Head, Johnstone Strait Salmon Stock Assessment  
250-949-9273

***Strait of Georgia Survey (PFMA's 13 – 20, 28 & 29)***

Patrik Zetterberg – Creel Coordinator, Strait of Georgia Salmon Stock Assessment  
250-756-7304

***West Coast Vancouver Island Survey (PFMA's 20 – 26 & 121 – 126)***

Karin Mathias - Biologist, WCVI Salmon Stock Assessment  
250-756-7290

**Table 1** Creel survey statistics (number of interviews and flights) and preliminary effort estimates (number of boat trips) by Pacific Fishery Management Area, July 2017.

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 average
11	194	8	661	14%	1164	1067
12	835	8	4407	8%	6932	6752
13	226	10	8513	6%	13095	12484
14	226	10	7215	10%	11405	7230
15			No survey this month			
16			No survey this month			
17	218	8	3005	12%	4673	6038
18	69	8	1899	12%	3139	1895
19	154	8	2166	9%	5108	4524
20	598	11	5214	11%	9015	13054
21	8	6	112	31%	205	168
121	116	7	2038	23%	2336	1368
23	476	10	6499	12%	8916	12424
123	107	7	1797	13%	2255	2503
24	26	7	640	24%	995	792
124	21	7	1275	31%	1700	1813
25	698	10	5079	10%	5079	5696
125	120	10	1551	29%	1551	1220
26			Analysis not complete			
126			Analysis not complete			
27	313	8	1286	9%	1751	1475
127	207	8	722	27%	981	1381
28	55	8	1341	9%	1564	3612
29	31	8	2760	11%	4715	2504
Totals 4	4698		58180		86579	88000

<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 June 2017) 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), July 2017. 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	1897	18%	3695	2576	301	26%	493	929	0		0	0
12	2716	11%	4639	3709	3243	11%	4035	3516	0		0	0
13	7059	12%	11792	10989	417	31%	417	3428	0		0	0
14	2130	23%	5436	2774	1638	25%	2031	1842	0		0	0
15							No survey this month					
16							No survey this month					
17	413	22%	770	1923	418	28%	429	840	0		0	0
18	329	56%	429	205	0		0	0	0		0	0
19	474	21%	952	928	0		0	0	0		0	0
20	3747	10%	5819	8536	146	50%	417	4470	0		0	0
21	242	42%	427	176	7	90%	7	43	0		0	0
121	9937	18%	11194	6398	5642	26%	6000	2043	0		0	0
23	1224	13%	3704	5704	434	23%	1227	2967	10738	24%	10738	38615
123	7071	14%	7718	7804	1546	22%	1680	2167	0		0	0
24	416	24%	697	1449	41	12%	98	1434	0		0	0
124	1704	31%	2287	5673	365	65%	367	1322	0		0	0
25	7136	11%	7136	6827	305	19%	305	2962	0		0	0
125	1527	27%	1527	2168	82	58%	82	539	0		0	0
26							Analysis not complete					
126							Analysis not complete					
27	1762	15%	2194	1754	1092	21%	1553	2370	0		0	0
127	1416	16%	1502	2181	142	23%	202	958	0		0	0
28	95	49%	128	327	14	67%	14	814	0		0	0
29	339	34%	653	462	132	57%	132	110	0		0	0
Kept Total <sup>2</sup>	51634		72699	72563	15965		19489	32754	10738		10738	38615

<sup>1</sup> Cumulative kept catch (from June 2017) 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 2017. 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	664	30%	1229	736	189	42%	221	438	1	115%	1	8
12	4096	15%	9435	4103	3767	20%	6336	2461	23	54%	23	65
13	4134	18%	7847	10112	1476	23%	1668	10210	452	49%	505	739
14	6092	25%	9148	7108	4241	17%	5430	6252	0		2	1
15							No survey this month					
16							No survey this month					
17	5429	29%	6254	5422	1719	20%	1871	2215	0		0	0
18	281	41%	364	197	0		0	0	0		0	0
19	324	30%	465	640	0		0	0	0		0	0
20	5884	19%	7898	6812	442	31%	1579	12869	110	79%	123	518
21	0		163	119	43	89%	43	190	0		0	0
121	5947	22%	7298	4606	9769	25%	10376	3375	0		0	0
23	6965	19%	9570	5688	233	38%	235	2259	2043	24%	2043	1608
123	5129	19%	5485	7953	2232	25%	2233	5482	22	81%	22	17
24	167	43%	340	410	173	57%	176	494	0		31	14
124	1350	54%	1495	3812	128	78%	173	2584	0		0	0
25	2126	24%	2126	6190	26	48%	26	3312	0		0	0
125	507	36%	507	1242	256	47%	256	1502	0		0	0
26							Analysis not complete					
126							Analysis not complete					
27	478	17%	641	1045	311	28%	687	1423	24	67%	24	7
127	306	35%	306	938	348	30%	453	1189	88	60%	88	14
28	58	50%	173	140	0		0	0	45	63%	45	0
29	991	44%	1178	226	74	92%	74	94	0		0	0
Released Total <sup>2</sup>	50928		71922	67499	25427		31837	56349	2808		2907	2991

<sup>1</sup> Cumulative kept catch (from June 2017) 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 2017. 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	600	16%	1091	1055	601	23%	831	747	1705	13%	2582	2099
12	330	18%	684	1759	278	21%	456	536	658	14%	1070	1311
13	0		106	137	1358	31%	2071	1761	205	42%	338	727
14	75	97%	98	16	159	49%	327	461	697	37%	1102	486
15							No survey this month					
16							No survey this month					
17	0		0	0	248	31%	366	1054	870	22%	1059	1519
18	0		0	0	110	62%	245	189	89	43%	373	500
19	57	51%	957	756	93	57%	128	92	631	36%	930	698
20	3	116%	317	532	160	50%	467	328	825	23%	2069	1891
21	0		5	49	56	74%	59	18	315	67%	345	33
121	3303	25%	3675	3355	123	49%	151	164	631	32%	823	514
23	45	58%	54	220	193	38%	1064	531	1057	18%	1807	2491
123	2465	17%	3023	3123	152	43%	156	465	258	54%	267	1196
24	128	64%	153	142	30		102	263	115	29%	374	871
124	212	38%	510	1893	233	29%	564	353	311	32%	989	1129
25	104	55%	104	300	342	33%	342	358	1219	20%	1219	943
125	982	35%	982	797	1959	32%	1959	1173	2574	21%	2574	1665
26							Analysis not complete					
126							Analysis not complete					
27	199	31%	352	443	710	25%	1112	604	1343	17%	1776	1039
127	536	27%	791	1590	1708	28%	2218	2161	1513	19%	2050	2356
28	0		0	0	0		0	0	26	59%	26	168
29	0		0	0	210	79%	452	237	192	79%	205	370
Kept Total <sup>3</sup>	9039		12902	16167	8723		13070	11495	15234		21978	22006

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

<sup>2</sup> Cumulative kept catch (from June 2017) 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 2017. 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	52	52%	73	221	105	39%	264	315	802	26%	985	863
12	58	36%	188	411	55	41%	173	561	574	24%	1219	2336
13	0		0	0	1113	22%	1802	5266	503	41%	1128	2234
14	0		0	0	175	44%	315	1071	558	36%	999	1247
15							No survey this month					
16							No survey this month					
17	0		0	0	260	61%	416	836	907	28%	1084	5179
18	0		0	0	90	55%	384	289	335	39%	778	1106
19	0		145	110	466	35%	774	1060	653	33%	1701	1126
20	0		0	0	284	38%	753	1445	1369	30%	3286	3147
21	0		0	0	0		16	52	36	104%	55	28
121	87	63%	96	597	35	76%	52	65	209	62%	265	251
23	0		0	0	113	35%	1922	756	1655	30%	6300	1761
123	783	38%	800	450	22	77%	413	246	34	46%	81	204
24	11	58%	11	8	158	44%	171	139	327	37%	369	180
124	2		76	273	234	41%	386	273	357	40%	443	470
25	2	106%	2	167	89	57%	89	248	886	25%	886	972
125	130	74%	130	102	286	61%	286	376	744	28%	744	486
26							Analysis not complete					
126							Analysis not complete					
27	16	43%	131	102	175	67%	304	159	1103	42%	1474	428
127	87	39%	102	655	136	35%	151	463	796	26%	1012	363
28	0		0	0	0		0	0	0		0	0
29	0		0	0	0		0	0	58	114%	78	506
<b>Released Total<sup>3</sup></b>	<b>1228</b>		<b>1754</b>	<b>3096</b>	<b>3796</b>		<b>8671</b>	<b>13620</b>	<b>11906</b>		<b>22887</b>	<b>22887</b>

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

<sup>2</sup> Cumulative kept catch (from June 2017) 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 2017, 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>
21	<b>Nitinat</b>	242	427	200	0	0	0
121	<b>Swiftsure Bank</b>	9937	11194	6400	0	0	0
23 -1,2	<b>Alberni Inlet</b>	11	11	0	0	0	0
23 - 3 to 11	<b>Barkley Sound</b>	1213	3694	5700	0	0	0
123	<b>Offshore Barkley</b>	7071	7718	7800	0	0	0
24	<b>Clayoquot Sound</b>	416	697	1450	0	0	0
124	<b>Offshore Clayoquot</b>	1704	2287	5650	0	0	0
25	<b>Nootka Snd. / Esperanza Inlet</b>	0	0	350	7136	7136	6700
125	<b>Offshore Nootka</b>	1527	1527	2150	0	0	0
26	<b>Kyuquot Sound</b>			Analysis not complete			
126	<b>Offshore Kyuquot</b>			Analysis not complete			
27	<b>Quatsino Sound</b>	0	432	450	1762	1762	1350
127	<b>Offshore Quatsino</b>	1416	1502	2200	0	0	0
<b>Total</b>		<b>23537</b>	<b>29489</b>	<b>35950</b>	<b>8898</b>	<b>8898</b>	<b>8400</b>

<sup>1</sup> Cumulative kept (from June 2017) 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.