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**South Coast Assessment Bulletin  
August 2018 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 2018, 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.

### **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)***

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

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

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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 2018.

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	63	6	551	25%	2066	1532
12	1016	6	5921	10%	14488	12109
13	182	10	10717	4%	27046	22778
14	162	10	6453	10%	12165	14824
15	No Survey this month					
16	No Survey this month					
17	148	10	2672	9%	6152	8806
18	31	10	938	10%	2536	5985
19	179	10	2927	10%	9739	7291
20	500	12	13630	10%	27500	25174
21	No Survey this month					
121	24	5	751	7%	3308	2294
23	560	12	10004	6%	19790	21736
123	188	7	3871	22%	6344	3945
24	Based on Logbooks	8	1051	0%	3882	1237
124	Based on Logbooks	8	270	0%	3317	2669
25	813	11	4975	8%	10047	11453
125	85	10	162	26%	1414	2303
26	Based on Logbooks	7	892	0%	3398	859
126	Based on Logbooks	7	874	0%	1404	1913
27	300	8	1559	9%	3133	2930
127	105	7	533	42%	1363	2245
28	36	10	810	13%	3907	6177
29	155	10	10443	20%	15082	8632
Totals <sup>4</sup>	4547		80004		178081	166892

<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 2018) 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), August 2018. 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	868	28%	4685	3665	247	45%	423	1106	1	221%	11	1
12	2135	11%	8462	6698	372	19%	3170	5915	3686	17%	3692	914
13	5719	10%	21314	20026	1452	43%	10201	5131	2210	22%	2210	12103
14	2074	16%	5732	6017	2577	19%	3957	3453	38	68%	38	75
15							No survey this month					
16							No survey this month					
17	451	33%	2300	2154	872	26%	2021	1076	196	46%	196	204
18	88	47%	154	878	0		0	0	0		0	0
19	737	20%	2072	1834	15	90%	15	89	31	64%	31	17
20	15339	11%	24870	20653	1454	25%	1930	5014	12104	17%	12104	437
21							No survey this month					
121	1212	26%	9109	10287	3014	35%	6409	4286	624	37%	624	5
23	10069	7%	19405	13225	2980	12%	4654	6710	77	53%	4809	39834
123	8300	19%	14496	12906	10531	24%	12468	4299	192	53%	192	24
24	1574		3538	1771	425		1203	2176	0		0	0
124	97		3716	8006	16		817	2012	0		0	0
25	5262	12%	9072	15021	3534	15%	6081	3867	5	109%	8	5
125	133	46%	906	3599	95	37%	573	1003	0		0	0
26	1786		4476	1225	1218		1881	527	0		0	0
126	1036		2653	5495	418		578	1269	0		0	0
27	1303	10%	2520	2695	2568	10%	4799	4807	4	65%	4	22
127	363	38%	1141	3572	161	51%	528	1978	0		0	0
28	56	50%	84	682	201	40%	391	1100	35	80%	35	87
29	2098	45%	2990	2026	659	48%	1506	264	23467	32%	23467	24428
Kept Total <sup>2</sup>	60700		143695	142435	32809		63605	56082	42670		47421	78156

<sup>1</sup> Cumulative kept catch (from June 2018) 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), August 2018. 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	291	52%	1565	1049	43	82%	61	426	0		0	0
12	3021	16%	13653	7931	2265	13%	4342	6313	253	28%	320	224
13	9049	19%	26345	19480	6418	15%	36236	17793	0		470	1777
14	5396	35%	12616	15012	8377	18%	13730	10631	1	104%	1	55
15							No survey this month					
16							No survey this month					
17	2674	21%	6597	7188	5167	28%	7426	3503	22	105%	22	137
18	358	28%	394	511	10	102%	10	109	0		0	0
19	719	22%	2434	1275	132	46%	247	227	0		0	0
20	27039	18%	43685	16071	4031	38%	6451	13775	729	54%	766	954
21							No survey this month					
121	308	46%	1497	7185	2870	58%	5908	6941	0		0	0
23	7157	16%	40834	11419	747	29%	2315	2547	84	74%	269	2073
123	9508	23%	13878	13523	22997	24%	27956	7513	0		15	32
24	474		1354	860	448		1320	893	0		0	0
124	8		1347	4682	39		1420	3537	0		0	0
25	2128	14%	5959	11137	953	25%	1734	3379	0		0	0
125	5	28%	128	1845	137	73%	1210	3332	0		0	0
26	890		2166	985	323		439	234	0		0	0
126	356		635	2706	1344		1531	2587	0		0	0
27	779	16%	1449	1786	1697	14%	2848	2314	0		0	23
127	148	63%	285	1288	1129	52%	2070	2128	0		11	65
28	18	80%	216	417	246	70%	351	489	0		0	0
29	1627	31%	3530	1476	1232	46%	3511	341	9	109%	9	409
Released Total <sup>2</sup>	71953		180567	127826	60605		121116	89012	1098		1883	5749

<sup>1</sup> Cumulative kept catch (from June 2018) 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), August 2018. 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	186	31%	1554	1245	136	42%	505	1046	737	24%	1990	2797
12	221	24%	746	2360	355	18%	943	800	1235	12%	2936	2322
13	0		0	0	1303	24%	3998	2943	470	49%	1779	1082
14	70	75%	70	36	328	52%	516	734	259	30%	405	914
15	No survey this month											
16	No survey this month											
17	0		0	0	80	70%	123	1334	728	31%	1014	1918
18	0		0	0	146	48%	317	713	52	65%	125	1325
19	145	58%	360	991	252	48%	425	130	425	54%	982	1070
20	71	101%	250	674	160	36%	362	697	2186	20%	3846	3761
21	No survey this month											
121	1675	17%	6670	4445	220	52%	862	258	140	47%	1660	870
23	22	85%	93	299	364	36%	1478	1111	1609	23%	4079	3715
123	2236	34%	4471	4429	389	39%	472	682	635	45%	1070	1273
24	7		86	186	22		373	444	334		1331	1280
124	136		1305	2273	788		1088	1332	778		1740	1745
25	72	72%	161	358	220	23%	716	686	1245	21%	3135	1901
125	129	46%	1035	1503	238	40%	1365	2289	235	22%	1120	3098
26	18		294	189	386		3642	475	428		6715	582
126	1209		2006	2702	1142		1725	4377	864		1392	2360
27	70	28%	340	695	294	20%	935	1175	751	17%	1695	2079
127	361	38%	1220	2259	667	37%	2117	3196	401	23%	1117	3483
28	0		0	0	0		0	0	0		0	0
29	0		0	0	0		644	354	120	74%	120	335
Kept Total <sup>3</sup>	6628		20661	24644	7490		22606	24776	13632		38251	37910

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

<sup>2</sup> Cumulative kept catch (from June 2018) 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), August 2018. 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	17	53%	79	240	329	80%	993	284	715	41%	2248	1293
12	81	51%	302	560	213	35%	504	524	2573	13%	7340	3709
13	0		0	0	1062	27%	5480	7094	1182	36%	2598	3153
14	0		0	0	175	37%	632	2134	3764	73%	4408	2623
15							No survey this month					
16							No survey this month					
17	0		0	0	325	41%	346	903	243	52%	799	2245
18	0		0	0	186	59%	603	569	331	44%	1367	1818
19	15	90%	44	145	800	30%	2781	1376	590	35%	3637	1542
20	0		136	195	357	45%	3611	2627	1799	45%	6269	5761
21							No survey this month					
121	30	67%	299	807	0		238	112	0		57	354
23	0		69	78	667	31%	2494	1384	1918	27%	4549	3578
123	305	33%	732	867	265	74%	502	383	1083	41%	1572	346
24	0		2	11	55		103	172	143		308	345
124	4		126	367	85		165	510	73		282	867
25	2	113%	94	174	336	25%	1198	438	2835	10%	5722	2494
125	33	107%	66	242	15	53%	130	720	121	42%	886	1301
26	3		98	99	53		646	198	410		6313	592
126	391		811	1526	58		123	866	766		1169	889
27	2	18%	67	177	324	26%	630	303	1827	20%	3105	1009
127	21	80%	304	771	73	69%	346	511	657	32%	1539	696
28	0		0	0	0		0	0	0		0	0
29	0		0	0	0		1125	130	20	105%	695	460
Released Total <sup>3</sup>	904		3229	6259	5378		22650	21238	21050		54863	35075

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

<sup>2</sup> Cumulative kept catch (from June 2018) 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), August 2018, 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>
20 (West)	<b>Juan de Fuca</b>	0	0	0	3654	6198	6900
21	<b>Nitinat</b>	0	1126	250	2	2	600
121	<b>Swiftsure Bank</b>	1212	9109	10300	0	0	0
23 -1,2	<b>Alberni Inlet</b>	0	80	0	2301	2301	2600
23 - 3 to 11	<b>Barkley Sound</b>	0	9257	4950	7768	7768	6200
123	<b>Offshore Barkley</b>	8300	14496	12900	0	0	0
24	<b>Clayoquot Sound</b>	0	1964	1600	1574	1574	200
124	<b>Offshore Clayoquot</b>	97	3716	8000	0	0	0
25	<b>Nootka Snd. / Esperanza Inlet</b>	0	0	1150	5262	9072	14550
125	<b>Offshore Nootka</b>	133	906	3600	0	0	0
26	<b>Kyuquot Sound</b>	0	447	200	1786	4029	1050
126	<b>Offshore Kyuquot</b>	1036	2653	5500	0	0	0
27	<b>Quatsino Sound</b>	0	339	450	1303	2181	2250
127	<b>Offshore Quatsino</b>	363	1141	3550	0	0	0
<b>Total</b>		<b>11141</b>	<b>45234</b>	<b>52450</b>	<b>23650</b>	<b>33125</b>	<b>34350</b>

<sup>1</sup> Cumulative kept (from June 2018) 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.