



## South Coast Creel Survey Bulletin #2 – June 2017

### 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 DFO Waves catalogue:

<http://waves-vagues.dfo-mpo.gc.ca/waves-vagues/>

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.



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**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



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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 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	45	5	503	18%	503	359
12	347	5	2525	16%	2525	1916
13	127	8	4582	15%	4582	5111
14	174	8	4190	10%	4190	3627
15	No Survey this month					
16	No Survey this month					
17	123	4	1667	17%	1667	2888
18	59	4	1240	17%	1240	821
19	126	4	2942	9%	2942	2261
20	283	9	3801	24%	3801	4658
21	14	7	92	32%	92	59
121	45	7	298	21%	298	378
23	27	7	2417	18%	2417	5089
123	8	7	457	13%	457	836
24	35	7	355	26%	355	220
124	21	7	425	37%	425	723
25	No Survey this month					
125	No Survey this month					
26	No Survey this month					
126	No Survey this month					
27	144	5	465	10%	465	379
127	53	5	259	37%	259	359
28	29	3	222	29%	222	977
29	50	4	1955	22%	1955	1035
<b>Totals 4</b>	<b>1710</b>		<b>28395</b>		<b>28395</b>	<b>31696</b>

<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



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**Table 2** Preliminary recreational kept catch estimates (number of fish) for key salmon species by Pacific Fishery Management Area (PFMA), June 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	1798	19%	1798	990	191	52%	191	107	0		0	0
12	1923	16%	1923	1060	792	24%	792	227	0		0	0
13	4732	20%	4732	4691	0		0	0	0		0	0
14	3305	17%	3305	1895	392	32%	392	1146	0		0	0
15	No survey this month											
16	No survey this month											
17	357	36%	357	1271	11	57%	11	618	0		0	0
18	100	46%	100	106	0		0	0	0		0	0
19	479	31%	479	409	0		0	0	0		0	0
20	2072	19%	2072	3063	270	79%	270	782	0		0	0
21	185	30%	185	153	0		0	0	0		0	0
121	1257	17%	1257	1444	357	33%	357	428	0		0	0
23	2481	18%	2481	2301	793	32%	793	321	0		0	0
123	647	53%	647	2272	134	83%	134	627	0		0	0
24	281	28%	281	479	56	40%	56	187	0		0	0
124	583	47%	583	2097	2		2	455	0		0	0
25	No survey this month											
125	No survey this month											
26	No survey this month											
126	No survey this month											
27	432	12%	432	429	461	15%	461	375	0		0	0
127	86	45%	86	486	60	54%	60	103	0		0	0
28	33	61%	33	138	0		0	0	0		0	0
29	314	79%	314	302	0		0	0	0		0	0
<b>Kept Total<sup>2</sup></b>	<b>21065</b>		<b>21065</b>	<b>23586</b>	<b>3519</b>		<b>3519</b>	<b>5376</b>	<b>0</b>		<b>0</b>	<b>0</b>

<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



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**Table 3** Preliminary recreational released catch estimates (number of fish) for key salmon species by Pacific Fishery Management Area (PFMA), June 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	565	61%	565	279	31	62%	31	16	0		0	0
12	5339	21%	5339	1235	2569	34%	2569	126	0		0	0
13	3713	22%	3713	4739	193	46%	193	4616	53	92%	53	40
14	3056	15%	3056	3979	1188	26%	1188	2473	2	103%	2	1
15	No survey this month											
16	No survey this month											
17	825	24%	825	4403	152	46%	152	1693	0		0	0
18	83	60%	83	124	0		0	0	0		0	0
19	141	42%	141	248	0		0	0	0		0	0
20	2014	23%	2014	2064	1137	61%	1137	2328	13	100%	13	28
21	163	33%	163	18	0		0	0	0		0	0
121	1352	25%	1352	1287	607	45%	607	657	0		0	0
23	2605	34%	2605	1925	2		2	292	0		0	0
123	356	38%	356	2141	1		1	1835	0		0	0
24	172	55%	172	75	3		3	68	31	94%	31	0
124	145	63%	145	1106	44	89%	44	750	0		0	0
25	No survey this month											
125	No survey this month											
26	No survey this month											
126	No survey this month											
27	163	28%	163	235	376	23%	376	187	0		0	0
127	0		0	0	105	58%	105	82	0		0	0
28	115	63%	115	71	0		0	0	0		0	0
29	187	86%	187	75	0		0	0	0		0	0
Released Total <sup>2</sup>	20994		20994	24004	6408		6408	15123	99		99	69

<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



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**Table 4** Preliminary recreational kept catch estimates (number of fish) for key groundfish species by Pacific Fishery Management Area (PFMA), June 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	491	28%	491	386	230	63%	230	252	877	27%	877	712
12	354	26%	354	681	178	36%	178	188	412	24%	412	403
13	106	66%	106	74	714	27%	714	851	133	74%	133	295
14	22	64%	22	11	168	45%	168	189	405	26%	405	199
15	No survey this month											
16	No survey this month											
17	0		0	0	118	61%	118	477	190	45%	190	351
18	0		0	0	136	55%	136	111	285	57%	285	310
19	900	33%	900	482	35	81%	35	47	298	39%	298	276
20	314	28%	314	369	307	37%	307	129	1244	30%	1244	747
21	5	104%	5	20	3	104%	3	7	30	54%	30	9
121	372	20%	372	967	28	51%	28	55	192	29%	192	120
23	9		9	61	871	45%	871	199	750	23%	750	1065
123	559	32%	559	1077	4		4	165	9		9	437
24	25	51%	25	42	72	26%	72	170	260	39%	260	643
124	299	57%	299	655	331	67%	331	71	679	35%	679	284
25	No survey this month											
125	No survey this month											
26	No survey this month											
126	No survey this month											
27	153	28%	153	153	402	21%	402	176	433	20%	433	298
127	255	42%	255	425	510	45%	510	582	537	27%	537	666
28	0		0	0	0		0	0	0		0	0
29	0		0	0	242	93%	242	84	13	100%	13	67
<b>Kept Total<sup>3</sup></b>	<b>3864</b>		<b>3864</b>	<b>5403</b>	<b>4349</b>		<b>4349</b>	<b>3753</b>	<b>6747</b>		<b>6747</b>	<b>6882</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



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**Table 5** Preliminary recreational released catch estimates (number of fish) for key groundfish species by Pacific Fishery Management Area (PFMA), June 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	21	60%	21	65	159	62%	159	123	183	39%	183	349
12	129	38%	129	163	118	55%	118	175	644	28%	644	785
13	0		0	0	689	26%	689	2518	625	43%	625	921
14	0		0	0	140	34%	140	258	440	35%	440	786
15	No survey this month											
16	No survey this month											
17	0		0	0	156	62%	156	346	177	62%	177	921
18	0		0	0	294	80%	294	130	443	96%	443	338
19	145	72%	145	91	308	42%	308	451	1048	40%	1048	475
20	0		0	0	469	38%	469	647	1917	40%	1917	1249
21	0		0	0	16	104%	16	49	19	65%	19	17
121	9	117%	9	251	17	71%	17	32	56	60%	56	35
23	0		0	0	1809	54%	1809	342	4645	28%	4645	919
123	17	71%	17	207	391	6%	391	87	47	80%	47	28
24	0		0	0	13		13	112	43	67%	43	37
124	74	73%	74	101	152	106%	152	160	87	42%	87	178
25	No survey this month											
125	No survey this month											
26	No survey this month											
126	No survey this month											
27	115	50%	115	35	130	25%	130	41	371	61%	371	80
127	15	68%	15	194	15	119%	15	91	217	63%	217	126
28	0		0	0	0		0	0	0		0	0
29	0		0	0	0		0	0	20	100%	20	186
<b>Released Total<sup>3</sup></b>	<b>525</b>		<b>525</b>	<b>1107</b>	<b>4876</b>		<b>4876</b>	<b>5562</b>	<b>10982</b>		<b>10982</b>	<b>7430</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



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**Table 6** Preliminary recreational kept Chinook catch estimates (number of fish) by Pacific Fishery Management Area (PFMA), June 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>	185	185	150	0	0	0
121	<b>Swiftsure Bank</b>	1257	1257	1450	0	0	0
23 -1,2	<b>Alberni Inlet</b>	0	0	0	0	0	0
23 - 3 to 11	<b>Barkley Sound</b>	2481	2481	2300	0	0	0
123	<b>Offshore Barkley</b>	647	647	2250	0	0	0
24	<b>Clayoquot Sound</b>	281	281	500	0	0	0
124	<b>Offshore Clayoquot</b>	583	583	2100	0	0	0
25	<b>Nootka Snd. / Esperanza Inlet</b>	No Survey this month					
125	<b>Offshore Nootka</b>	No Survey this month					
26	<b>Kyuquot Sound</b>	No Survey this month					
126	<b>Offshore Kyuquot</b>	No Survey this month					
27	<b>Quatsino Sound</b>	432	432	450	0	0	0
127	<b>Offshore Quatsino</b>	86	86	500	0	0	0
<b>Total</b>		<b>5952</b>	<b>5952</b>	<b>12700</b>	<b>0</b>	<b>0</b>	<b>0</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.