



## South Coast Assessment Bulletin September 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)***

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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, September 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			No Survey this month			
12			No Survey this month			
13	129	8	7666	15%	28775	26583
14	154	8	2548	16%	20374	15612
15			No Survey this month			
16			No Survey this month			
17			No Survey this month			
18			No Survey this month			
19	84	7	2113	11%	10356	9243
20	350	9	9275	10%	30780	31566
21	2	4	75	12%	481	533
121	13	4	121	43%	3165	2237
23	167	4	4705	13%	27036	25293
123	2	4	99	80%	3988	4736
24			No Survey this month			
124			No Survey this month			
25			No Survey this month			
125			No Survey this month			
26			No Survey this month			
126			No Survey this month			
27			No Survey this month			
127			No Survey this month			
28	26	7	3054	21%	5863	8076
29	12	7	5206	18%	13764	10379
Totals <sup>4</sup>	939		34862		144582	134258

<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), September 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							No survey this month					
12							No survey this month					
13	2849	33%	23426	20242	787	46%	2322	6781	0		0	0
14	1186	23%	10118	5743	196	37%	3554	3488	0		0	0
15							No survey this month					
16							No survey this month					
17							No survey this month					
18							No survey this month					
19	389	24%	2173	2424	42	81%	69	375	0		0	0
20	4043	13%	23767	22282	5333	17%	6629	13785	0		0	0
21	0		619	889	0		57	225	0		0	0
121	0		13329	9623	385	51%	8983	3940	0		0	0
23	4303	13%	21324	15547	2250	19%	5823	10715	0		10893	41232
123	37	117%	11913	14167	0	158%	2967	6480	0		0	0
24							No survey this month					
124							No survey this month					
25							No survey this month					
125							No survey this month					
26							No survey this month					
126							No survey this month					
27							No survey this month					
127							No survey this month					
28	1294	45%	1803	944	676	47%	1627	1642	0		0	0
29	3026	75%	5846	2445	132	104%	366	340	0		0	0
Kept Total <sup>2</sup>	17127		114318	94306	9801		43913	76685	0		10893	41232

<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), September 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							No survey this month					
12							No survey this month					
13	4763	34%	23015	20239	6528	24%	15075	23057	50	60%	1401	1926
14	3607	24%	26041	13918	1896	24%	13728	10385	0		22	81
15							No survey this month					
16							No survey this month					
17							No survey this month					
18							No survey this month					
19	556	38%	1508	1754	232	33%	241	1002	0		9	20
20	6077	20%	25754	16078	10914	17%	13781	33679	588	94%	942	1127
21	0		163	186	0		43	205	0		0	0
121	70	110%	8592	6059	497	70%	13719	6460	0		0	0
23	2928	21%	19353	11445	918	28%	1783	3606	0		2057	1717
123	0		9388	15014	0		4277	13984	0		22	26
24							No survey this month					
124							No survey this month					
25							No survey this month					
125							No survey this month					
26							No survey this month					
126							No survey this month					
27							No survey this month					
127							No survey this month					
28	328	48%	910	609	736	68%	803	672	0		45	76
29	3479	55%	7403	1747	328	87%	508	477	0		0	0
Released Total <sup>2</sup>	21808		122127	87049	22049		63958	93527	638		4498	4973

<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), September 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												
12												
13	0		106	171	1604	39%	4393	3050	994	42%	1488	1711
14	0		98	17	191	51%	833	780	355	35%	2347	759
15												
16												
17												
18												
19	149	39%	1578	1414	34	69%	172	221	305	31%	1658	1152
20	0		452	713	730	30%	1534	886	2078	23%	6297	4319
21	0		17	133	147	17%	248	110	220	13%	779	136
121	24	118%	4363	4636	195	78%	503	303	60	72%	1412	925
23	1		356	319	5		1186	1139	51	75%	2842	3761
123	3		4229	5484	0		182	995	1	112%	352	2162
24												
124												
25												
125												
26												
126												
27												
127												
28	0		0	0	0		0	0	0		26	243
29	0		0	0	0		563	360	0		308	480
Kept Total <sup>3</sup>	177		11199	12887	2906		9614	7844	4064		17509	15648

<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), September 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												
12												
13	0		0	0	1061	53%	3464	8686	349	39%	2227	4192
14	0		0	0	146	51%	552	2405	394	43%	1956	2771
15												
16												
17												
18												
19	6	113%	160	209	367	40%	1334	1687	230	41%	2410	1921
20	0		100	250	1089	41%	3675	3309	3186	25%	10292	5995
21	0		0	0	0		16	179	0		98	116
121	0		96	823	50	125%	261	82	0		348	420
23	0		94	65	29	73%	2134	1063	0		6905	2504
123	1		853	915	0		434	404	0		163	458
24												
124												
25												
125												
26												
126												
27												
127												
28	0		0	0	0		0	0	0		0	0
29	0		0	0	0		0	0	0		88	495
<b>Released Total<sup>3</sup></b>	<b>7</b>		<b>1303</b>	<b>2262</b>	<b>2742</b>		<b>11870</b>	<b>17815</b>	<b>4159</b>		<b>24487</b>	<b>18872</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), September 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>	0	427	200	0	192	700
121	<b>Swiftsure Bank</b>	0	13329	9600	0	0	0
23 -1,2	<b>Alberni Inlet</b>	0	11	0	1011	4885	3900
23 - 3 to 11	<b>Barkley Sound</b>	0	3694	5700	3291	12735	6750
123	<b>Offshore Barkley</b>	37	11913	14150	0	0	0
24	<b>Clayoquot Sound</b>	0	697	1450	0	115	150
124	<b>Offshore Clayoquot</b>	0	3550	8900	0	0	650
25	<b>Nootka Snd. / Esperanza Inlet</b>	0	0	350	0	14793	13950
125	<b>Offshore Nootka</b>	0	2859	4050	0	0	50
26	<b>Kyuquot Sound</b>	0	259	150	0	3525	600
126	<b>Offshore Kyuquot</b>	0	7649	5600	0	0	0
27	<b>Quatsino Sound</b>	0	432	450	0	2573	2000
127	<b>Offshore Quatsino</b>	0	1886	4350	0	0	0
<b>Total</b>		<b>37</b>	<b>46706</b>	<b>54950</b>	<b>4302</b>	<b>38818</b>	<b>28750</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.