



South Coast Creel Survey Bulletin #3 – July 2016

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 2016, available on the DFO *ExtraNet*:

http://www-ops2.pac.dfo-mpo.gc.ca/xnet/content/salmon/sc_creelbulletins

*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.htm>

In-season management measures 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://ops.info.pac.dfo.ca/fishman/fnotice/fnotice.htm>

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:

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

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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, July 2016.

Pacific Fishery Management Area (PFMA)	Number of Creel Interviews	Number of Effort Count Flights ¹	Effort			
			Estimate	% SE ²	Year to date ³	Year to date 5-yr average
11	199	7	676	17%	1072	1063
12	1278	7	5302	9%	8099	6839
13	270	10	6585	8%	10520	11908
14	186	10	4038	17%	6653	6401
15	No Survey this month					
16	No Survey this month					
17	No Survey this month					
18	No Survey this month					
19	171	10	1886	10%	4595	4207
20	595	15	7107	8%	10702	13407
21	18	8	68	63%	163	147
121	137	8	1435	15%	2081	1223
23	662	16	7879	6%	12777	12079
123	213	8	1247	10%	1658	2901
24	37	8	532	41%	678	730
124	189	8	779	28%	1623	1829
25	605	10	7531	23%	7531	5553
125	186	8	1223	30%	1223	1057
26	Analysis not yet available					
126	Analysis not yet available					
27	356	7	1348	17%	2039	1409
127	173	7	678	16%	1043	1335
28	No Survey this month					
29	No Survey this month					
Totals ⁴	5275		48314		72457	72088

¹ The number of flights where weather conditions allowed effort counts; not including on-water counts

² %SE is a measure of uncertainty; one Standard Error as a percentage of the estimate.

³ Cumulative effort (from June 2016) to date summed across periods where surveys are active
- note that WCVI 5 year averages including September are unavailable (N/A)

⁴ 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), July 2016. 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 ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹
11	1413	17%	2617	2626	111	25%	113	1273	0		0	0
12	1543	11%	2663	4108	2318	12%	2454	3488	0		0	0
13	4730	13%	8004	10636	1474	19%	1530	3139	0		0	0
14	845	28%	2075	2446	1979	39%	2571	1273	0		0	0
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	135	37%	602	963	0		0	0	0		0	0
20	4031	11%	5291	8798	309	31%	383	4560	0		0	61
21	94	49%	289	145	0		8	41	0		0	0
121	5744	10%	7627	5990	1084	23%	1646	2112	0		0	0
23	1130	16%	1808	6493	62	29%	130	3544	26205	5%	50860	37776
123	3096	12%	4312	9363	557	22%	695	2413	0		0	116
24	549	33%	642	1402	511	34%	526	1487	0		0	0
124	2837	20%	5473	5669	315	46%	331	1362	0		0	0
25	4543	21%	4543	8417	683	36%	683	4526	0		0	0
125	2212	26%	2212	1866	428	27%	428	703	0		0	0
26	Analysis not yet available											
126	Analysis not yet available											
27	1066	19%	1793	1707	2396	19%	2443	2795	0		0	0
127	451	20%	696	2379	521	26%	521	969	0		0	0
28	No survey this month											
29	No survey this month											
Kept Total²	34419		50647	73008	12748		14462	33685	26205		50860	37953

¹ Cumulative kept catch (from June 2016) to date summed across periods where surveys are active

² 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), July 2016. 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 ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹	Estimate	%SE	Year to date ¹	Year to date 5-yr. average ¹
11	180	39%	639	799	4	49%	4	573	0		0	0
12	1986	16%	3609	3783	1492	15%	1581	2416	9	61%	14	86
13	7267	12%	14237	7927	3138	15%	3803	9780	151	58%	195	830
14	4180	26%	9836	5158	6316	25%	8553	4401	0		2	1
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	120	41%	543	574	0		0	0	0		0	0
20	6306	18%	7437	5939	101	40%	198	13322	87	62%	133	617
21	19	167%	19	117	0		0	0	0		0	0
121	2954	17%	3934	4293	1106	30%	1654	3513	0		0	0
23	3496	17%	5086	6000	29	69%	73	3046	164	53%	257	1705
123	3264	16%	3746	9300	589	28%	687	7035	0		4	17
24	74	64%	100	458	525	44%	526	558	0		0	0
124	750	29%	1530	4174	1184	43%	1232	3177	1	100%	1	56
25	7421	27%	7421	5600	376	96%	376	4561	0		0	0
125	955	34%	955	1243	1560	25%	1560	2336	0		0	0
26	Analysis not yet available											
126	Analysis not yet available											
27	1386	23%	1488	904	1864	22%	1864	1592	0		0	0
127	236	40%	303	922	309	39%	309	1263	0		0	0
28	No survey this month											
29	No survey this month											
Released Total²	40594		60883	57191	18593		22420	57573	412		606	3312

¹ Cumulative kept catch (from June 2016) to date summed across periods where surveys are active

² 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), July 2016. 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 ¹			
	Estimate	%SE	Year to date ²	Year to date 5-yr. average ²	Estimate	%SE	Year to date ²	Year to date 5-yr. average ²	Estimate	%SE	Year to date ²	Year to date 5-yr. average ²
11	559	19%	983	1107	661	21%	927	625	1906	13%	2677	1750
12	544	15%	1232	1977	315	20%	622	501	837	13%	1496	1280
13	0		17	144	762	27%	2058	1401	173	36%	401	727
14	11	83%	29	10	154	89%	311	490	312	61%	548	439
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	198	38%	340	764	35	56%	45	103	387	32%	582	704
20	120	72%	382	506	221	40%	455	270	1319	18%	2595	1604
21	0		16	44	14	167%	19	8	19	102%	19	30
121	2713	15%	4050	3179	161	38%	299	156	507	23%	702	435
23	114	70%	157	260	340	48%	688	502	1614	22%	2164	2339
123	916	15%	1756	3515	143	38%	188	579	249	29%	279	1695
24	20	129%	124	149	150	63%	390	204	468	46%	712	762
124	389	39%	578	2129	567	33%	574	288	602	31%	666	1253
25	599	128%	599	232	238	37%	238	344	942	23%	942	893
125	371	33%	371	766	875	62%	875	1092	1177	31%	1177	1199
26	Analysis not yet available											
126	Analysis not yet available											
27	351	21%	751	392	654	19%	1139	481	935	12%	1574	996
127	756	18%	1224	1561	845	19%	1340	2541	1202	14%	1923	2446
28	No survey this month											
29	No survey this month											
Kept Total³	7661		12609	16735	6135		10168	9585	12649		18457	18552

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2016) to date summed across periods where surveys are active

³ 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), July 2016. 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 ¹			
	Estimate	%SE	Year to date ²	Year to date 5-yr. average ²	Estimate	%SE	Year to date ²	Year to date 5-yr. average ²	Estimate	%SE	Year to date ²	Year to date 5-yr. average ²
11	33	42%	91	268	45	50%	113	502	595	28%	958	782
12	94	32%	325	444	96	40%	141	768	1349	13%	2257	2539
13	0		102	79	1497	28%	3206	4763	651	48%	1180	2005
14	0		2	30	123	61%	187	1474	120	37%	1419	916
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	8	119%	8	110	557	56%	784	1107	481	55%	870	1221
20	17	71%	135	159	383	26%	1021	1588	2001	20%	3724	2854
21	0		0	0	27	148%	52	28	5	167%	5	34
121	173	40%	489	568	106	50%	179	45	510	30%	626	164
23	49	54%	49	41	290	44%	762	730	366	28%	558	1999
123	110	35%	217	427	33	73%	59	334	306	36%	312	201
24	0		34	8	118	95%	118	123	246	105%	250	132
124	48	78%	48	284	33	55%	33	279	87	43%	135	534
25	564	136%	564	35	88	49%	88	340	568	32%	568	997
125	28	55%	28	101	73	39%	73	433	294	32%	294	522
26	Analysis not yet available											
126	Analysis not yet available											
27	58	31%	147	98	138	23%	275	145	910	25%	1117	221
127	137	40%	378	576	141	36%	291	428	208	28%	370	302
28	No survey this month											
29	No survey this month											
Released Total³	1319		2617	3228	3748		7382	13087	8697		14643	15423

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2016) to date summed across periods where surveys are active

³ 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), July 2016, divided into Aggregate Abundance-based Management (AABM) and Individual Stock-based Management (ISBM) groupings.

Area	Region	AABM			ISBM		
		Estimate	Year to Date ¹	Year to Date 5-yr average ²	Estimate	Year to Date ¹	Year to Date 5-yr average ²
21	Nitinat	94	289	150	0	0	0
121	Swiftsure Bank	5744	7627	6000	0	0	0
23 -1,2	Alberni Inlet	0	0	0	0	0	0
23 - 3 to 11	Barkley Sound	1130	1808	6450	0	0	0
123	Offshore Barkely	3096	4312	9350	0	0	0
24	Clayquot Sound	549	642	1400	0	0	0
124	Offshore Clayquot	2837	5473	5650	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	0	200	4543	4543	8400
125	Offshore Nootka	2212	2212	1850	0	0	0
26	Kyuquot Sound	Analysis not yet available					
126	Offshore Kyuquot	Analysis not yet available					
27	Quatsino Sound	0	727	350	1066	1066	1350
127	Offshore Quatsino	451	696	2400	0	0	0
Total		16113	23786	33800	5609	5609	9750

¹ Cumulative kept (from June 2016) to date summed across periods where surveys are active.

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