



South Coast Creel Survey Bulletin #3 – July 2014

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 2014, 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 2013-2015 British Columbia Tidal Waters Sport Fishing Guide will provide you with information on many of regulations and management measures that are in place. A copy of this may be obtained from most licence vendors. It may also be viewed at 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 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://ops.info.pac.dfo.ca/fishman/fnotice/fnotice.htm>

Improvements and Participation:

In 2014 DFO is working with the Sports Fish Advisory Board, recreational fishing guides and avid anglers to improve recreational catch monitoring information by collecting detailed fishing information from some fishery participants. This detailed information includes reports of fishing activity, through logs, and the collection of biological samples. This information is used to improve catch monitoring as well as our understanding of the distribution of fish stocks. This project includes some fishing lodges, individual guides, and selected avid anglers within the South Coast area. We would like to thank all of the individual participants in this project along with the staff and management of the following lodges for their important contributions of catch monitoring information (partial list):

Canadian Princess Resort, Dent Island Resort, Nanook Lodge, Ritchie Brothers, and Sonora Resort.



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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 in the 2013-2015 British Columbia Tidal Waters Sport Fishing Guide, or follow 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 and Individual Stock-based Management 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, July 2014.

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	84	8	738	19%	1013	936
12	731	8	4944	13%	7145	7064
13	540	9	7996	5%	12890	9207
14	No Survey this month					
15	No Survey this month					
16	No Survey this month					
17	No Survey this month					
18	No Survey this month					
19	154	10	1803	7%	3926	4068
20	588	12	8282	12%	13255	14377
21	3	8	131	56%	166	147
121	137	8	943	24%	1415	992
23	799	14	8323	6%	13089	12868
123	183	8	980	32%	1780	3626
24	21	8	696	14%	696	590
124	99	8	1070	16%	1264	1716
25	420	10	5599	13%	5599	5465
125	180	7	1041	20%	1041	1090
26	Analysis not yet available					
126	Analysis not yet available					
27	234	9	1278	10%	1670	1574
127	76	6	1101	33%	1313	1669
28	No Survey this month					
29	No Survey this month					
Totals 4	4249		44925		66262	65389

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 2014) 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 2014. 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	699	10%	1625	2102	723	19%	773	1132	0		0	0
12	2320	14%	3867	3781	3993	13%	4280	3342	11	114%	11	40
13	9194	9%	15882	6182	3223	11%	3598	2434	0		0	0
14	No survey this month											
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	352	23%	625	788	0		0	0	0		0	0
20	4717	10%	7939	7789	1609	24%	1619	4843	39	87%	39	90
21	0		20	105	0		0	0	0		0	0
121	5371	15%	6899	4510	1038	23%	1194	2478	0		0	0
23	5663	9%	8095	6386	3872	11%	4114	3757	13101	10%	20320	41901
123	2726	36%	5481	12501	1873	41%	2500	3044	0		0	0
24	1250	22%	1250	735	1363	33%	1363	1084	0		0	0
124	3049	16%	3283	5071	895	17%	949	1311	10	110%	10	5
25	8402	13%	8402	7499	899	20%	899	4552	0		0	0
125	1561	25%	1561	1883	437	27%	437	737	4	132%	4	13
26	Analysis not yet available											
126	Analysis not yet available											
27	1969	11%	2454	1310	1295	12%	1525	3328	0		0	0
127	1746	29%	2051	2903	1406	32%	1492	715	0		0	0
28	No survey this month											
29	No survey this month											
Kept Total ²	49019		69434	63545	22626		24743	32757	13165		20384	42049

¹ Cumulative kept catch (from June 2014) 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 2014. 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	667	15%	1144	669	413	22%	425	620	13	53%	13	7
12	2097	15%	3905	4763	2480	17%	2738	3364	83	42%	95	107
13	7359	10%	15402	4984	1181	16%	2626	8926	1197	38%	1197	392
14	No survey this month											
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	316	40%	592	263	0		0	0	0		0	0
20	5571	23%	7079	4341	4621	24%	4709	13528	748	52%	748	434
21	0		10	43	0		0	0	0		0	0
121	4412	22%	6298	2198	212	40%	328	3736	0		0	0
23	5262	11%	8803	5849	1254	15%	1339	3385	959	23%	967	3068
123	2382	47%	6587	10357	1562	49%	2011	9139	0		0	0
24	588	28%	588	274	307	36%	307	565	0		0	0
124	1861	19%	2101	3942	275	31%	289	3699	0		0	0
25	7702	13%	7702	4233	235	30%	235	5027	0		0	0
125	1785	34%	1785	972	272	34%	272	2701	0		0	0
26	Analysis not yet available											
126	Analysis not yet available											
27	591	15%	835	1013	443	24%	453	2505	0		0	0
127	590	44%	671	1331	360	42%	363	2352	0		0	0
28	No survey this month											
29	No survey this month											
Released Total ²	41183		63502	45232	13615		16095	59547	3000		3020	4008

¹ Cumulative kept catch (from June 2014) 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 2014. 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	127	14%	375	1057	133	15%	162	479	271	8%	405	1399
12	1104	22%	1979	1804	443	24%	571	375	897	19%	1312	1152
13	47	44%	126	135	861	20%	1397	555	286	25%	578	484
14	No survey this month											
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	108	31%	798	871	25	69%	73	143	121	43%	410	625
20	121	53%	365	559	280	41%	372	263	1069	21%	1524	1653
21	0		42	73	0		0	0	0		13	41
121	2644	25%	3928	2748	29	59%	66	164	371	32%	567	352
23	437	19%	522	239	514	19%	962	310	2529	12%	4442	1287
123	1360	42%	2676	3984	170	54%	523	649	183	22%	866	2126
24	67	50%	67	108	4	37%	4	130	57	66%	57	435
124	785	22%	1173	1825	185	29%	260	210	899	19%	1000	1020
25	53	46%	53	348	377	41%	377	323	808	26%	808	949
125	1007	28%	1007	675	555	35%	555	1064	898	23%	898	1134
26	Analysis not yet available											
126	Analysis not yet available											
27	222	25%	227	331	380	22%	386	415	780	15%	866	1019
127	760	38%	826	1777	782	29%	870	2844	736	26%	942	3134
28	No survey this month											
29	No survey this month											
Kept Total³	8842		14164	16534	4738		6578	7924	9905		14688	16810

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2014) 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 2014. 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	29	53%	69	224	72	21%	96	515	538	34%	717	564
12	185	44%	348	421	514	30%	705	876	2212	26%	3216	2951
13	26	97%	26	88	3102	14%	4005	1884	1153	23%	2076	1284
14	No survey this month											
15	No survey this month											
16	No survey this month											
17	No survey this month											
18	No survey this month											
19	164	78%	237	77	701	22%	1347	1632	122	56%	451	1312
20	29	76%	43	138	1750	25%	2865	2926	3190	23%	4304	2776
21	0		17	15	0		0	0	0		13	36
121	694	31%	978	268	11	85%	11	38	99	45%	136	115
23	42	36%	44	30	660	26%	1122	394	1687	18%	4402	702
123	88	54%	331	349	59	56%	115	461	20	73%	71	161
24	0		0	0	4	118%	4	116	5		5	68
124	87	45%	179	176	169	45%	215	355	160	42%	267	282
25	3	118%	3	55	259	33%	259	399	991	26%	991	611
125	137	53%	137	53	262	95%	262	456	708	62%	708	343
26	Analysis not yet available											
126	Analysis not yet available											
27	25	18%	26	82	99	31%	101	266	116	34%	140	469
127	219	33%	236	561	133	31%	159	556	91	61%	117	536
28	No survey this month											
29	No survey this month											
Released Total³	1728		2674	2537	7795		11266	10874	11092		17614	12210

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2014) 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 2014, 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	0	20	100	0	0	0
121	Swiftsure Bank	5371	6899	4500	0	0	0
23 -1,2	Alberni Inlet	0	0	50	0	0	0
23 - 3 to 11	Barkley Sound	5663	8095	6350	0	0	0
123	Offshore Barkely	2726	5481	12500	0	0	0
24	Clayquot Sound	1250	1250	750	0	0	0
124	Offshore Clayquot	3049	3283	5050	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	0	200	8402	8402	7450
125	Offshore Nootka	1561	1561	1900	0	0	0
26	Kyuquot Sound	No Estimate	0	100	0	0	500
126	Offshore Kyuquot	No Estimate	0	2700	0	0	0
27	Quatsino Sound	0	485	300	1969	1969	1000
127	Offshore Quatsino	1746	2051	2900	0	0	0
Total		21366	29125	37400	10371	10371	8950

¹ Cumulative kept (from June 2014) 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.