



South Coast Creel Survey Bulletin #4 – August 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, Sonora Resort, Morgan's Landing and Eagle Creek Lodge



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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)
Pieter Van Will - Program Head, Johnstone Strait Salmon Stock Assessment
250-949-9273

Strait of Georgia Survey (PFMA's 13 – 20, 28 & 29)
David O'Brien - Program Head, Strait of Georgia Salmon Stock Assessment
250-756-7003

West Coast Vancouver Island Survey (PFMA's 20 – 26 & 121 – 126)
Diana Dobson - Program Head, WCVI Salmon Stock Assessment
250-756-7186



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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 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	23	7	399	21%	1412	1522
12	891	8	5931	10%	13075	13546
13	899	10	12656	5%	25545	16978
14	184	10	5002	9%	5002	8926
15	No Survey this month					
16	No Survey this month	10				
17	160	10	3060	7%	3060	7724
18	69	10	3066	6%	3066	3768
19	205	10	2932	8%	6858	6208
20	854	9	13049	9%	26303	27878
21	7	7	203	34%	369	375
121	176	4	662	51%	2077	1814
23	516	12	11377	5%	24465	23069
123	434	8	1109	24%	2889	6915
24	51	8	275	15%	971	1063
124	178	8	824	19%	2088	3332
25	301	12	5142	14%	10740	10277
125	138	8	1465	10%	2507	2686
26	Analysis not yet available	7				
126	Analysis not yet available	7				
27	271	9	904	14%	2574	3276
127	215	8	1511	19%	2823	3036
28	66	10	2306	11%	2306	4701
29	244	10	14159	14%	14159	4238
Totals 4	5882		86032		152289	151332

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), August 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	250	29%	2860	2966	265	33%	907	1728	0		0	0
12	1962	10%	5829	6767	4788	11%	9068	4191	3542	15%	3553	2902
13	4537	9%	20420	9950	3548	11%	7146	2984	37103	8%	37103	7891
14	3549	10%	3549	3149	1769	18%	1769	1240	137	33%	137	91
15	No survey this month											
16	No survey this month											
17	630	23%	630	1714	534	21%	534	873	204	43%	204	10
18	460	45%	460	463	0		0	0	593	90%	593	253
19	493	23%	1118	1316	62	65%	62	99	36	64%	36	105
20	6552	9%	14490	17456	3289	15%	4908	7375	1845	25%	1884	5364
21	30	117%	50	314	637	50%	637	164	0		0	0
121	2849	29%	9748	7424	2199	44%	3393	4365	5	238%	5	59
23	8836	9%	16931	17521	4725	17%	8839	7867	3613	11%	23933	45281
123	3281	22%	8762	22131	4896	12%	7396	8987	35	60%	35	143
24	90	32%	1341	811	333	14%	1697	2404	1	113%	1	5
124	2593	16%	5876	9830	1614	15%	2562	3174	25	46%	36	61
25	7134	14%	15536	13368	284	25%	1184	7103	0		0	0
125	2824	13%	4384	4559	1069	16%	1506	1878	21	42%	25	64
26	Analysis not yet available											
126	Analysis not yet available											
27	401	13%	2855	2412	1635	16%	3160	7661	3	99%	3	22
127	1938	16%	3989	5714	3275	17%	4768	1661	0		0	0
28	48	45%	48	195	480	36%	480	953	155	76%	155	157
29	806	32%	806	613	101	58%	101	94	49044	17%	49044	5592
Kept Total ²	49263		119682	128673	35503		60117	64801	96362		116747	68000

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), August 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	284	42%	1419	910	180	43%	335	1154	0		0	0
12	2665	13%	6570	8057	1999	18%	4737	10078	669	21%	764	536
13	7658	10%	23059	8589	3041	15%	5667	14861	1290	31%	2488	1262
14	1653	16%	1653	7695	917	30%	917	5496	187	90%	187	0
15	No survey this month											
16	No survey this month											
17	1221	23%	1221	8005	948	25%	948	2376	0		0	0
18	766	60%	766	540	7	115%	7	139	0		0	0
19	184	52%	777	612	159	38%	159	276	0		0	0
20	3367	17%	10446	10772	4127	18%	8836	20502	717	51%	1465	1163
21	0		10	92	0		0	0	0		0	0
121	1030	61%	7327	3348	602	77%	930	7186	0		0	0
23	3451	21%	12254	9274	619	62%	1958	5285	158	34%	1126	3297
123	2354	30%	8942	17563	2768	20%	4780	22739	0		0	0
24	162	27%	750	522	116	18%	424	1685	0		0	0
124	2114	23%	4215	6898	379	31%	669	9644	0		0	0
25	5978	15%	13681	8335	87	37%	322	6047	3	86%	3	28
125	2152	21%	3937	1916	244	36%	516	6942	11	79%	11	44
26	Analysis not yet available											
126	Analysis not yet available											
27	366	27%	1202	1939	391	18%	845	4647	1	103%	1	19
127	794	22%	1465	2248	1540	21%	1903	4615	8	108%	8	55
28	0		0	0	18	77%	18	547	0		0	0
29	338	59%	338	1674	165	60%	165	112	733	38%	733	700
Released Total ²	36537		100032	98989	18307		34136	124331	3777		6786	7104

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), August 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	274	35%	1132	1583	327	33%	648	780	659	21%	1574	2088
12	1145	13%	3124	3075	305	22%	876	633	924	14%	2236	2110
13	37	67%	163	139	650	30%	2047	759	421	41%	999	847
14	4	86%	4	17	143	77%	143	380	224	45%	224	487
15	No survey this month											
16	No survey this month											
17	0		0	0	259	29%	259	996	941	30%	941	1620
18	27	101%	27	25	1112	49%	1112	311	154	40%	154	530
19	604	28%	1402	1246	118	39%	191	200	276	25%	686	887
20	33	79%	398	725	725	26%	1096	481	2687	16%	4211	2918
21	0		42	220	61	117%	61	15	61	117%	74	93
121	772	58%	4701	4594	55	54%	121	304	203	48%	770	642
23	81	52%	604	362	1039	35%	2001	708	1779	19%	6221	2045
123	1404	17%	4081	7329	370	19%	892	1275	279	21%	1145	3575
24	21	48%	88	136	15	38%	19	189	34	45%	91	649
124	873	20%	2046	3105	144	37%	404	520	215	28%	1215	1610
25	78	69%	130	498	39	70%	416	585	1182	75%	1991	1757
125	1532	17%	2538	1699	1233	21%	1788	2704	1391	13%	2289	3221
26	Analysis not yet available											
126	Analysis not yet available											
27	269	20%	496	540	338	18%	724	729	779	14%	1645	1715
127	1175	21%	2001	3188	1686	19%	2556	4999	1591	16%	2533	5614
28	0		0	0	0		0	0	0		0	0
29	0		0	0	209	73%	209	192	0		0	0
Kept Total ³	8329		22977	28481	8828		15563	16760	13800		28999	32408

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), August 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	2		255	363	216	41%	356	685	431	37%	1164	1003
12	328	28%	676	648	309	33%	1014	1180	3263	14%	6479	5314
13	103	80%	129	52	1693	20%	5698	2870	735	22%	2811	1871
14	10	85%	10	22	596	32%	596	1957	459	39%	459	762
15	No survey this month											
16	No survey this month											
17	0		0	0	683	30%	683	3651	1262	31%	1262	5303
18	16	115%	16	0	572	33%	572	968	1001	39%	1001	2146
19	141	57%	378	95	519	31%	1866	2197	608	27%	1059	1739
20	99	72%	142	155	3172	20%	6037	4383	3746	17%	8050	4407
21	0		17	46	0		0	0	30	117%	44	36
121	46	76%	1024	481	26	94%	36	36	82	55%	218	190
23	73	103%	117	35	314	47%	1435	750	706	27%	5108	1048
123	133	36%	464	746	87	78%	202	710	53	58%	124	312
24	12	98%	12	19	8	48%	12	178	79	31%	84	192
124	137	43%	316	454	79	39%	294	737	87	38%	354	620
25	0		3	127	241	49%	499	737	1371	41%	2362	945
125	165	34%	303	127	615	34%	877	1020	579	25%	1287	880
26	Analysis not yet available											
126	Analysis not yet available											
27	62	39%	88	123	111	27%	213	425	399	40%	539	945
127	493	21%	729	882	321	22%	480	990	305	25%	422	830
28	0		0	0	0		0	0	0		0	0
29	2	106%	2	0	209	96%	209	196	6	63%	6	230
Released Total ³	1822		4681	4375	9771		21079	23670	15202		32833	28773

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), August 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	30	30	200
121	Swiftsure Bank	2849	9748	7400	0	0	0
23 -1,2	Alberni Inlet	0	0	50	3075	3075	5850
23 - 3 to 11	Barkley Sound	0	8095	6350	5761	5761	6450
123	Offshore Barkely	3281	8762	22150	0	0	0
24	Clayquot Sound	0	1250	750	90	90	100
124	Offshore Clayquot	2593	5876	9850	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	0	200	7134	15536	13350
125	Offshore Nootka	2824	4384	4550	0	0	0
26	Kyuquot Sound	No Estimate			No Estimate		
126	Offshore Kyuquot	No Estimate			No Estimate		
27	Quatsino Sound	0	485	300	401	2370	2100
127	Offshore Quatsino	1938	3989	5700	0	0	0
Total		13485	42609	57400	16491	26862	28050

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.