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**South Coast Assessment Bulletin
August 2019 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 2019, available on the Federal Science Library catalogue:

<http://science-libraries.canada.ca/eng/home/>

The search term "South Coast assessment bulletin, creel survey" 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.

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)
Patrik Zetterberg – Creel Coordinator, Strait of Georgia Salmon Stock Assessment
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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, August 2019.

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	46	6	472	32%	1479	1583
111	4	5	138	40%	1384	6
12	683	6	5323	18%	10377	13117
13	367	11	7869	5%	16888	23507
14	228	11	7404	8%	14080	13832
15	87	11	2018	10%	4311	5921
16	38	10	2793	11%	5126	6928
17	181	10	3209	11%	7047	8243
18	41	10	1074	9%	1665	5467
19	238	10	3629	9%	6640	7631
20	730	12	14534	7%	20411	24616
21	32	7	281	28%	587	536
121	60	7	597	34%	2521	2578
23	628	9	14734	5%	26979	22880
123	55	8	1104	24%	2900	3812
24	233	7	897	28%	2684	1704
124	46	7	66	31%	549	2745
25	522	10	5681	10%	12579	11631
125	47	9	345	22%	1131	2334
26	Based on Logbooks	7	1387	0%	4430	1444
126	Based on Logbooks	7	887	0%	2673	1760
27	254	7	1540	9%	3650	3044
127	120	7	464	29%	1048	1925
28	45	10	1165	12%	2561	5528
29	115	10	7279	16%	10061	10823
Total ⁴	4874		84890	3%	163761	183595

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 2019) 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 2019. 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	560	34%	2859	3818	220	43%	305	833				
111	229	54%	3472	39	32	90%	139					
12	2878	16%	4202	7563	410	20%	1973	5680				
13	9682	10%	15746	22043	235	25%	592	3986				
14	3119	12%	6671	6072	558	25%	2863	3361				
15	1444	19%	3029	3409	86	54%	154	421				
16	457	52%	985	1800	33	66%	46	289				
17	674	24%	1532	2093	375	30%	953	1021				
18	314	18%	314	848								
19	2069	12%	2069	1813	55	56%	140	48				
20	14973	7%	15831	19800	1840	20%	2575	3059				
21	944	23%	1493	1138	87	56%	168	180				
121	2005	21%	4081	10132	1674	43%	6977	4714				
23	19312	7%	33604	15597	7456	9%	13977	5411				
123	3020	25%	7180	10987	1588	50%	2419	5164				
24	1065	42%	3138	2164	1094	40%	2803	1278				
124	39	49%	44	7365	0		3	1536				
25	5190	11%	15926	13957	3216	11%	6390	3247				
125	360	40%	860	3349	74	60%	164	726				
26	1391		5406	2078	34		274	676				
126	1540		2609	4844	11		32	829				
27	875	10%	4277	2669	2076	12%	4142	4329				
127	616	28%	764	2554	87	45%	145	1592				
28	710	23%	799	661								
29	7256	20%	7497	2351	247	54%	531	551				
Kept Total ²	80722	4%	144388	149144	21488	7%	47765	48931				

¹ Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

² 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), August 2019. 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	269	48%	1174	1143	146	57%	159	169				
111	43	95%	1058		21	91%	59					
12	6213	21%	13255	9534	3307	20%	4257	5169	89	37%	117	279
13	11031	9%	36647	20849	3970	16%	6417	15252	147	73%	147	1253
14	8216	18%	24423	12975	4873	24%	12224	9707				
15	2926	20%	5801	607	659	44%	1026	1368				
16	4367	62%	7531	205	319	49%	1480	1328				
17	3734	21%	25725	4368	1809	21%	4530	2869				
18	897	16%	1116	440	640	29%	640	97				
19	2385	16%	4148	1614	133	50%	495	153	14	94%	26	11
20	8912	12%	15855	19021	3471	19%	5747	6378	96	77%	152	768
21					38	70%	299	150				
121	147	52%	1287	5915	4043	40%	16778	5529				
23	15504	19%	46892	19167	2877	17%	11783	1816	11	120%	11	927
123	2571	39%	7725	10910	2874	42%	6510	9313				
24	240	34%	740	933	547	41%	2121	725				
124					10	111%	16	2277				
25	3738	15%	11221	9990	1090	21%	2056	1673				
125	74	53%	189	1617	51	51%	160	1446				
26	717		3350	1277	225		294	160				
126	257		530	2220	36		36	1243				
27	1209	18%	2318	1778	936	16%	1897	2032				
127	119	40%	207	888	479	51%	904	1579				
28	72	52%	560	312	67	52%	274	459				
29	7672	22%	11280	1909	3465	21%	4546	924	266	72%	266	310
Released Total ²	81313	7%	223032	127672	36086	8%	84708	71816	623	38%	719	3548

¹ Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

² 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), August 2019. 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	121	44%	416	1295	64	35%	522	1014	193	21%	1743	2884
111	45	54%	444	16	21	72%	146	5	158	23%	830	63
12	395	27%	754	2121	149	41%	556	904	769	20%	1948	2666
13					1475	50%	2556	3207	694	29%	1615	1487
14					777	100%	1080	679	1174	62%	1390	1017
15					224	43%	321	630	128	51%	768	956
16					32	68%	146	1076	686	29%	789	3492
17					203	47%	540	1152	399	33%	833	1917
18					128	30%	153	686	87	37%	347	1387
19	7	113%	336	701	94	48%	254	163	535	26%	1565	1143
20	68	101%	226	391	516	30%	775	668	2251	21%	3919	3865
21	9	112%	49	72	20	108%	88	149	28	66%	69	559
121	1146	33%	7468	4867	32	93%	363	360	224	66%	745	1207
23	261	41%	413	261	351	30%	1028	1290	2003	22%	5623	4801
123	1360	34%	3436	3562	32	96%	202	523	12	90%	423	1158
24	2	96%	166	170	41	60%	228	424	179	55%	761	1190
124	14	75%	539	1889	41	24%	178	1540	59	30%	254	2082
25	19	99%	159	410	531	45%	1479	874	1269	24%	4571	2694
125	142	45%	841	1587	310	34%	1068	2289	453	41%	1017	3079
26	50		316	221	297		4415	896	360		6384	1351
126	545		3037	2504	619		4101	3643	305		1583	2258
27	77	26%	284	671	341	15%	792	1244	605	17%	1716	2277
127	244	22%	837	1930	670	30%	1617	2846	358	22%	961	2858
28												
29					324	28%	430	442	18	102%	286	497
Kept Total ²	4505	16%	19721	22668	7292	18%	23038	26704	12947	9%	40140	46888

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

³ 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), August 2019. 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	42	83%	107	172	311	60%	684	432	904	32%	2320	1545
111	4		20	1	47	82%	700	7	217	46%	1373	6
12	36	62%	96	459	199	39%	553	510	3184	23%	6157	4731
13	29	91%	29	120	956	22%	3187	7106	711	31%	2246	3704
14					5556	72%	5954	1623	1852	49%	2182	3093
15					301	36%	799	138	882	41%	1234	1519
16					3103	83%	3513	424	1089	44%	2602	3149
17					246	52%	617	646	481	43%	1323	1694
18					624	25%	1000	511	195	32%	512	1858
19					1118	24%	3761	1633	773	31%	3254	1825
20	32	103%	157	136	2748	22%	4178	2922	2026	24%	3878	6134
21					10	108%	71	238	0		22	291
121	6	140%	104	649								
23					577	43%	2199	1912	1272	26%	3908	4856
123	39		173	696	5	173%	61	390	5	165%	277	669
24	1		12	11	41	77%	318	145	171	71%	432	501
124	3		61	252	4	103%	73	536	16	45%	166	933
25					651	35%	2611	525	1307	29%	3291	4376
125					379	40%	549	607	440	51%	1057	1394
26	1		66	78	38		177	230	161		4609	999
126	135		1882	1070	71		588	498	178		964	1162
27	12	70%	34	147	276	23%	778	389	1581	14%	3680	1658
127	10		70	609	203	48%	478	414	602	36%	1526	973
28												
29					1330	27%	1637	400				
Released Total ²	350	38%	2811	4400	18794	26%	34486	22236	18047	9%	47013	47070

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2019) to date summed across periods where surveys are active

³ 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), August 2019, 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
20 (West)	Juan de Fuca	0	0	0	6711	7569	6450
21	Nitinat	0	549	450	944	944	700
121	Swiftsure Bank	2005	4081	10150	0	0	0
23 -1,2	Alberni Inlet	0	166	0	5774	5774	2500
23 - 3 to 11	Barkley Sound	0	14126	5800	13538	13538	7300
123	Offshore Barkley	3020	7180	11000	0	0	0
24	Clayoquot Sound	0	2073	1650	1065	1065	500
124	Offshore Clayoquot	39	44	7350	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	446	1050	5190	15479	13300
125	Offshore Nootka	360	860	3350	0	0	0
26	Kyuquot Sound	0	1041	450	1391	4365	1750
126	Offshore Kyuquot	1540	2609	4850	0	0	0
27	Quatsino Sound	0	1121	450	875	3156	2200
127	Offshore Quatsino	616	764	2550	0	0	0
Total		7580	35060	49100	35488	51890	34700

¹ Cumulative kept (from June 2019) 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.