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**South Coast Assessment Bulletin
July 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)

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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 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	149	6	644	23%	1008	1130
111	Based on Logbooks	6	620	13%	1246	
12	591	6	3878	27%	5054	7500
13	216	12	7061	5%	9019	13466
14	207	12	5464	5%	6677	7791
15	70	12	1844	9%	2294	3517
16	13	11	1863	9%	2333	4133
17	270	11	2579	14%	3838	4799
18	13	11	358	10%	591	2556
19	57	11	1831	16%	3011	4751
20	182	14	4613	9%	5877	12106
21	68	8	159	12%	306	215
121	93	8	1690	4%	1924	1842
23	269	9	7298	6%	12244	12142
123	29	9	1702	39%	1796	2041
24	166	9	1469	13%	1787	1285
124	44	9	147	33%	483	1857
25	512	8	5664	6%	6898	6089
125	44	9	601	25%	786	1513
26	Based on Logbooks	6	1841	0%	2989	979
126	Based on Logbooks	6	1718	0%	1822	1027
27	221	9	1537	9%	2110	1698
127	74	6	448	11%	584	1141
28	72	11	945	10%	1396	3470
29	34	11	1740	10%	2782	3712
Total ⁴	3426		57714	3%	78855	100760

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), July 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	1225	21%	2300	3048	68	63%	85	467				
111	1489	14%	3243		87	29%	107					
12	1321	32%	1323	4743	1526	25%	1563	3564	3	104%	3	17
13	6063	8%	6063	12945	298	27%	357	2338				
14	3550	11%	3550	3463	2140	26%	2305	1793	35	98%	35	0
15	1575	20%	1575	2081	68	62%	68	273				
16	519	30%	519	1344	13	74%	13	220				
17	846	15%	846	1458	305	27%	578	479				
18												
19					85	54%	85	10				
20	858	18%	858	8123	200	66%	735	966				
21	359	15%	549	455	40	69%	81	20				
121	2076	16%	2076	7908	5144	13%	5303	2702				
23	8437	10%	14292	5817	6183	12%	6521	1735	76	33%	573	34572
123	4159	35%	4159	6307	829	45%	831	1737				
24	1747	15%	2073	1641	1678	19%	1710	1006				
124	5	31%	5	4873	3	111%	3	838				
25	9609	10%	10736	6940	2889	15%	3173	1790	18	70%	18	42
125	457	58%	457	2177	90	71%	90	369				
26	2858		3900	1361	48		243	224				
126	862		891	3232	27		28	323				
27	2281	10%	3402	1909	1827	13%	2066	2121				
127	147	29%	147	1523	51	51%	58	741				
28	88	41%	88	370	109	51%	109	433				
29	233	33%	241	628	192	44%	285	308				
Kept Total ²	50764	5%	63293	82385	23900	6%	26397	24457	132	34%	629	34631

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), July 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	556	46%	905	895	11	119%	13	68				
111	427	20%	1015		19	68%	38					
12	6008	19%	7042	6476	832	21%	950	2725	28	68%	28	42
13	19416	8%	25617	11781	1954	15%	2447	7442				
14	12018	13%	16207	7124	6179	18%	7351	5407				
15	1838	28%	2874	392	366	39%	366	853				
16	1938	76%	3164	161	1099	77%	1161	1171				
17	18288	7%	21991	3287	1714	12%	2721	1108				
18	136	55%	219	255								
19	1450	20%	1763	896	362	31%	362	69	12	128%	12	3
20	5013	14%	6943	9493	1398	37%	2276	2856	56	103%	56	339
21	36	67%	69	155	118	63%	261	134				
121	1016	33%	1140	4952	12466	14%	12735	3802				
23	23109	11%	31387	13118	8745	24%	8906	918				
123	5154	44%	5154	6164	3636	56%	3636	2973				
24	432	29%	500	719	1560	35%	1574	532				
124	34	126%	34	2489	6	131%	6	1400				
25	6588	14%	7483	5631	904	37%	965	1184				
125	58	70%	115	869	109	99%	109	723				
26	1500		2576	739	8		68	53	5		5	6
126	275		275	1519					11		11	18
27	744	12%	1109	933	943	15%	961	1024				
127	88	78%	88	469	424	43%	426	730				
28	214	34%	488	153	144	34%	207	397				
29	2238	24%	3609	739	817	30%	1081	418				
Released Total ²	108574	5%	141767	79409	43814	9%	48620	35987	112	66%	112	408

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), July 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	113	23%	295	1068	189	39%	458	786	689	18%	1551	2176
111	190	22%	400	16	98	21%	125	5	535	14%	670	63
12	201	33%	359	1376	309	31%	406	581	729	19%	1180	1501
13					595	25%	1081	2221	754	31%	921	1042
14					74	36%	303	465	196	59%	216	763
15					51	77%	96	348	304	31%	640	508
16					13	105%	114	713	85	39%	102	1368
17					213	39%	337	696	277	49%	433	958
18					12	63%	24	247	139	44%	260	747
19	93	47%	329	424	113	37%	159	102	550	25%	1029	746
20	112	103%	158	308	216	49%	259	321	1389	28%	1669	1922
21	16	64%	40	43	55	64%	68	32	7	108%	40	201
121	5654	7%	6321	3806	192	43%	331	224	290	37%	520	941
23	143	42%	151	169	465	45%	677	865	1644	24%	3623	3273
123	1933	52%	2076	2394	170	105%	170	296	407	76%	411	772
24	120	79%	163	136	146	49%	187	389	397	22%	583	1039
124	119	47%	525	1303	94	53%	137	739	151	49%	194	1535
25	85	59%	140	360	510	35%	948	674	2262	24%	3302	1798
125	600	43%	699	982	585	34%	758	1310	391	33%	564	2187
26	56		262	139	2446		4091	656	3727		6023	1088
126	2337		2462	1529	3499		3765	2443	1193		1317	1429
27	168	15%	207	455	352	9%	451	806	796	10%	1112	1348
127	371	19%	593	1186	608	20%	947	1687	322	19%	602	1708
28					1	108%	1	66				
29					90	66%	106	386	36	79%	268	447
Kept Total ²	12311	12%	15180	15694	11096	10%	15999	17058	17270	8%	27230	29560

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), July 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	27	56%	65	143	181	65%	373	316	812	29%	1416	1153
111	16	52%	16	1	340	27%	653	7	890	25%	1155	6
12	42	66%	60	296	172	44%	354	344	1655	21%	2972	2712
13					616	30%	2232	5110	1114	51%	1534	2345
14					227	63%	399	916	245	50%	330	1503
15					44	71%	498	65	44	80%	353	768
16					181	66%	410	326	107	55%	1514	2546
17					262	37%	371	418	678	36%	843	1208
18					326	45%	376	322	201	50%	318	1107
19	27	69%	215	107	1275	32%	2643	1208	858	32%	2481	1368
20	125	73%	125	116	1205	33%	1430	1680	1655	34%	1853	3643
21					18	97%	61	74	8	76%	22	47
121	36	80%	98	540	72	80%	80	97				
23	21	91%	29	52	1250	41%	1621	1502	1015	29%	2636	3608
123	130	91%	134	518	57	105%	57	291	226	105%	272	307
24	1		11	8	223	36%	276	125	226	56%	260	413
124					23	97%	69	279	98	52%	148	599
25					1304	73%	1960	333	1432	21%	1986	2271
125	95	111%	108	128	114	46%	170	219	495	28%	614	827
26	19		70	63	73		73	189	180		4264	689
126	1747		1753	654	577		609	378	658		854	668
27	19	22%	23	113	358	27%	501	219	1733	11%	2103	976
127	47	63%	60	404	210	36%	275	263	607	37%	923	624
28												
29					158	61%	307	340	208	78%	306	881
Released Total ²	2352	33%	2767	3143	9266	15%	15798	15021	15145	8%	29157	30269

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), July 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	858	858	2050
21	Nitinat	359	549	450	0	0	0
121	Swiftsure Bank	2076	2076	7900	0	0	0
23 -1,2	Alberni Inlet	158	158	0	0	0	0
23 - 3 to 11	Barkley Sound	8279	14126	5800	0	0	0
123	Offshore Barkley	4159	4159	6300	0	0	0
24	Clayoquot Sound	1747	2073	1650	0	0	0
124	Offshore Clayoquot	5	5	4850	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	446	1050	9609	10289	6300
125	Offshore Nootka	457	457	2200	0	0	0
26	Kyuquot Sound	0	1041	450	2858	2858	1000
126	Offshore Kyuquot	862	862	3250	0	0	0
27	Quatsino Sound	0	1121	450	2281	2281	1450
127	Offshore Quatsino	147	147	1500	0	0	0
Total		18249	27220	35850	15606	16286	10800

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.