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**South Coast Assessment Bulletin
July 2018 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 2017, available on the Federal Science Library catalogue:

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

The search term "South Coast Creel Bulletin" 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)

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

Strait of Georgia Survey (PFMA's 13 – 20, 28 & 29)

Kevin Pellett – A/Program Head, Strait of Georgia Salmon Stock Assessment
250-756-7273

West Coast Vancouver Island Survey (PFMA's 20 – 26 & 121 – 126)

Karin Mathias - Biologist, WCVI Salmon Stock Assessment
250-756-7290

Table 1 Creel survey statistics (number of interviews and flights) and preliminary effort estimates (number of boat trips) by Pacific Fishery Management Area, July 2018.

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	64	7	702	18%	1515	1019
12	974	7	5684	6%	8567	6757
13	90	10	10706	4%	16329	13338
14	193	10	3259	10%	5712	8738
15	3	10	1829	13%	1829	3209
16			No Survey this month			
17	138	10	2277	17%	3480	5422
18	69	10	405	13%	1598	2645
19	109	10	3468	9%	6811	4494
20	502	14	11097	8%	15364	12462
21	5	5	286	55%	414	188
121	37	5	3129	27%	3833	1552
23	374	10	5062	7%	9787	12069
123	108	5	1884	16%	2474	2283
24	41	4	2492	17%	2831	906
124	13	4	2877	29%	3048	1659
25	784	10	5072	9%	5072	5933
125	154	7	1252	16%	1252	1297
26			Analysis Not Yet Available			
126			Analysis Not Yet Available			
27	301	7	1212	13%	1575	1608
127	66	7	664	23%	830	1288
28	49	10	2645	12%	3097	3825
29	31	10	2621	9%	4639	3187
Totals 4	4105		68623		100057	93879

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 2018) 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

Table 2 Preliminary recreational kept catch estimates (number of fish) for key salmon species by Pacific Fishery Management Area (PFMA), July 2018. 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	1526	18%	3817	2865	150	43%	176	626	0		10	1
12	4146	7%	6327	4009	2712	9%	2798	3756	7	104%	7	22
13	9312	11%	15594	11955	4813	24%	8750	3463	0		0	0
14	1513	20%	3657	3440	515	26%	1380	2249	0		0	0
15	1924	18%	1924	1600	0		0	0	0		0	0
16							No Survey this month					
17	1004	34%	1848	1554	617	38%	1149	759	0		0	0
18	34	47%	66	323	0		0	0	0		0	0
19	901	22%	1335	944	0		0	0	0		0	0
20	8069	10%	10797	8305	501	29%	658	2588	0		0	0
21	1107	50%	1583	259	10		10	33	0		0	0
121	8837	19%	11289	7396	5464	35%	5569	2577	0		0	0
23	2922	10%	9336	4956	1017	18%	1674	2187	1186	21%	4732	37256
123	4826	17%	6195	7711	1736	16%	1937	1900	0		0	0
24	1657	31%	1964	1582	772	37%	778	1349	0		0	0
124	3335	31%	3619	5235	790	92%	802	1089	0		0	0
25	3810	9%	3810	7443	2547	13%	2547	2499	4	101%	4	0
125	773	15%	773	2043	477	53%	477	376	0		0	0
26							Analysis Not Yet Available					
126							Analysis Not Yet Available					
27	878	14%	1217	1987	1936	13%	2231	2247	0		0	0
127	571	26%	778	2059	339	34%	367	897	0		0	0
28	0		28	389	164	32%	189	747	0		0	0
29	446	61%	892	555	531	87%	847	185	0		0	0
Kept Total ²	57591		86849	76610	25091		32339	29527	1197		4753	37279

¹ Cumulative kept catch (from June 2018) 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 2018. 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	490	45%	1274	809	18	97%	18	158	0		0	0
12	7346	10%	10632	5029	1906	16%	2077	3181	68	33%	68	32
13	10971	27%	17296	10892	13297	25%	29818	10021	0		470	719
14	3330	24%	7220	8346	2085	17%	5353	7262	0		0	0
15	3811	69%	3811	325	0		0	0	0		0	0
16							No survey this month					
17	1459	30%	3924	6308	1681	35%	2259	2569	0		0	0
18	15	81%	35	237	0		0	0	0		0	0
19	1482	32%	1715	683	115	50%	115	187	0		0	0
20	15681	17%	17585	7652	2135	23%	2895	8609	37	103%	37	413
21	481	193%	488	127	37	125%	37	160	0		0	0
121	1549	42%	1785	5689	4746	43%	4871	4536	0		0	0
23	17666	15%	33677	6623	859	33%	1568	1643	41	53%	185	1983
123	3119	15%	4371	8051	4805	25%	4959	3591	15	165%	15	23
24	692	59%	880	611	873	45%	873	387	0		0	0
124	1307	46%	1339	2794	1344	62%	1380	1962	0		0	0
25	3830	19%	3830	5803	781	23%	781	2897	0		0	0
125	123	33%	123	914	1073	46%	1073	1222	0		0	0
26							Analysis Not Yet Available					
126							Analysis Not Yet Available					
27	527	23%	670	999	1081	16%	1150	1234	0		0	24
127	104	47%	137	751	933	39%	941	893	11	119%	11	88
28	50	46%	198	212	82	37%	105	473	0		0	0
29	317	65%	1903	415	1790	96%	2279	122	0		0	0
Released Total ²	74350		112893	73270	39641		62552	51107	172		786	3282

¹ Cumulative kept catch (from June 2018) 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 2018. 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	396	21%	1368	956	198	35%	368	777	701	26%	1253	2110
12	250	19%	525	1489	274	19%	588	527	1180	10%	1701	1290
13	0		0	0	1935	31%	2695	2018	1153	45%	1310	757
14	0		0	0	89	70%	188	519	56	49%	146	685
15	0		0	0	0		0	0	0		0	0
16							No survey this month					
17	0		0	0	21	69%	43	775	287	45%	287	980
18	0		0	0	31	103%	171	235	62	103%	73	604
19	157	44%	215	672	47	104%	173	77	114	88%	558	728
20	176	67%	180	547	168	54%	229	340	1114	23%	1754	1964
21	0		19	46	0		0	0	0		0	0
121	5944	31%	7316	3406	548	50%	873	130	1666	54%	2180	530
23	25	33%	71	201	451	63%	1114	702	1940	24%	2470	2724
123	1850	22%	2235	2919	7	70%	83	369	283	55%	435	806
24	50	112%	78	150	335	53%	350	390	668	46%	997	1069
124	1056	65%	1170	1428	241	87%	300	680	836	48%	962	1206
25	90	46%	90	300	496	19%	496	495	1890	16%	1890	1227
125	906	44%	906	787	1127	33%	1127	1171	885	30%	885	1882
26							Analysis Not Yet Available					
126							Analysis Not Yet Available					
27	179	17%	270	444	465	19%	641	733	738	13%	944	1172
127	644	26%	858	1305	1093	25%	1449	1871	541	20%	717	2017
28	0		0	0	0		0	0	0		0	0
29	0		0	0	188	106%	644	282	0		0	0
Kept Total ³	11723		15301	14650	7714		11532	12091	14114		18562	21751

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2018) 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 2018. 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	32	27%	62	167	181	43%	664	217	1053	35%	1532	864
12	128	34%	221	343	178	26%	290	366	3893	11%	4766	1990
13	0		0	0	3195	25%	4418	5057	894	32%	1416	2108
14	0		0	0	299	47%	457	1079	439	39%	644	1367
15	0		0	0	0		0	0	0		0	0
16							No survey this month					
17	0		0	0	21	57%	21	572	556	55%	556	1350
18	0		0	0	133	96%	417	314	531	88%	1036	944
19	20	119%	29	102	901	35%	1982	1068	1947	44%	3047	1065
20	110	77%	136	172	2119	40%	3260	1354	2569	32%	4484	3266
21	0		0	0	0		0	0	0		0	0
121	31		268	592	95	110%	279	77	11		57	246
23	69	62%	69	47	992	34%	1827	1111	1683	22%	2632	2931
123	348	44%	427	557	105	64%	237	286	326	34%	488	188
24	2		2	8	48	106%	48	157	165	47%	165	245
124	109	93%	123	191	76	77%	79	268	191	53%	209	526
25	92	38%	92	164	862	14%	862	214	2887	16%	2887	1311
125	34	42%	34	127	116	44%	116	248	764	33%	764	565
26							Analysis Not Yet Available					
126							Analysis Not Yet Available					
27	50	35%	64	119	229	24%	306	180	906	14%	1278	672
127	68	46%	283	463	256	41%	273	322	750	33%	882	443
28	0		0	0	0		0	0	0		0	0
29	0		0	0	0		1125	63	0		675	539
Released Total ³	1093		1810	3052	9806		16661	12953	19565		27518	20620

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from June 2018) 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 2018, 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	3008	3809	2200
21	Nitinat	1107	1583	250	0	0	0
121	Swiftsure Bank	8837	11289	7400	0	0	0
23 -1,2	Alberni Inlet	40	80	0	0	0	0
23 - 3 to 11	Barkley Sound	2882	9257	4950	0	0	0
123	Offshore Barkley	4826	6195	7700	0	0	0
24	Clayoquot Sound	1657	1964	1600	0	0	0
124	Offshore Clayoquot	3335	3619	5250	0	0	0
25	Nootka Snd. / Esperanza Inlet	0	0	1150	3810	3810	7000
125	Offshore Nootka	773	773	2050	0	0	0
26	Kyuquot Sound			Analysis Not Yet Available			
126	Offshore Kyuquot			Analysis Not Yet Available			
27	Quatsino Sound	0	339	450	878	878	1550
127	Offshore Quatsino	571	778	2050	0	0	0
Total		24028	35877	32850	7696	8497	10750

¹ Cumulative kept (from June 2018) 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.