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South Coast Assessment Bulletin August 2020 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 111, 121 to 127. These estimates are generated from data collected by the DFOs 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 2020, 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 PFMAs are available by following the link provided above to the Fisheries and Oceans Canada Pacific Region Recreational Fishery webpage.

Cumulative totals are calculated from July to August inclusive.

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:

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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 2020.

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 avg
11	175	7	637	12%	1184	1101
111	10	6	55	37%	185	767
12	570	7	4149	6%	6506	10295
13	275	10	7289	9%	12699	17045
14	309	10	8224	12%	13205	11382
15	131	10	1569	14%	3325	5171
16	67	10	2512	10%	10309	6388
17	203	10	3690	13%	7318	6095
18	54	10	1164	7%	2480	4220
19	236	10	3219	9%	4972	5403
20	984	11	14989	8%	21553	20266
21	25	5	101	44%	237	469
121	109	8	607	30%	1338	2312
23	554	10	11772	6%	16475	18386
123	139	9	1353	12%	2118	3441
24	220	9	472	25%	1035	1624
124	109	9	635	22%	906	1743
25	626	9	4650	6%	9817	10977
125	44	10	271	16%	666	1624
26	Based on Logbooks	12	1961	0%	3685	1735
126	Based on Logbooks	12	377	0%	701	1741
27	372	8	1678	6%	3092	2789
127	72	8	374	17%	672	1268
28	85	10	1370	10%	2431	3736
29	30	10	1752	10%	3710	7963
Total ⁴	5442		74870	3%	130619	147941

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 July 2020) 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), August 2020. 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	877	14%	2095	2248	561	18%	983	562				
111	44	44%	441	1684	33	53%	51	108				
12	1367	12%	1754	5852	704	16%	1834	4004				
13	6188	11%	11294	16560	44	72%	181	1971	0		0	450
14	4680	13%	7872	4348	924	25%	1982	2694				
15	404	26%	1054	2980	105	45%	210	423				
16	653	24%	3639	1636	96	73%	194	302				
17	560	20%	1223	1281	699	24%	1218	895				
18	81	87%	81	701								
19	563	18%	563	1704	44	59%	95	64				
20	9904	8%	10869	18282	4867	14%	8778	2372				
21	141	45%	407	1156	100	108%	220	93				
121	1127	32%	1639	7807	1565	32%	3249	5147				
23	15540	8%	18302	15184	1731	22%	1912	5625				
123	3228	14%	5291	9632	2535	18%	3427	3913				
24	525	30%	862	1759	45	36%	94	1046				
124	1296	24%	1440	3988	27	60%	35	665				
25	3916	11%	9070	12875	497	19%	816	4020	10	138%	10	15
125	72	70%	99	2050								
26	1260		2988	2294	2		6	656				
126	273		407	3656								
27	299	15%	1076	2363	1132	10%	1786	4094				
127	82	47%	313	1520	46	51%	141	541				
28	170	37%	170	582	190	44%	319	408				
29	64	78%	227	3286	265	57%	732	464				
Kept Total ²	53314	4%	83176	125428	16212	7%	28263	40067	10	139%	10	465

¹Cumulative kept catch (from July 2020) to date summed across periods where surveys are active

²Including 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 2020. 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	620	21%	1411	660	377	24%	485	177				
111	26	65%	106	443	28	50%	55	36				
12	4127	14%	7179	8257	2591	16%	3915	5097				
13	10556	12%	21548	18151	1803	20%	2295	12172	68	59%	82	755
14	14278	14%	21637	12627	2844	18%	4631	10039				
15	2575	26%	6204	1294	487	46%	665	1321				
16	2999	23%	8697	1316	853	54%	1087	1419				
17	7185	19%	18149	6738	850	18%	3001	3114				
18	264	30%	387	401	81	87%	92	253				
19	1365	20%	1564	1974	104	38%	240	209				
20	11870	12%	19278	18003	8503	12%	17174	4998				
21	2	280%	27	211	156	89%	181	136				
121	8	106%	61	3666	1357	38%	3366	8048				
23	4179	15%	7817	17895	922	33%	1005	2873				
123	1514	24%	2683	7482	3621	25%	5555	8549				
24	86	47%	197	669	33	58%	44	774				
124	255	39%	276	1490	49	57%	49	956				
25	3528	19%	7748	8259	272	39%	493	1474	0		18	3
125	7	138%	28	640								
26	168		231	1295								
126	22		56	1501	1		4	956				
27	1259	18%	2156	1709	717	19%	880	2145				
127	13	108%	146	542	0		171	1333				
28	392	30%	615	290	57	58%	189	402				
29	1935	34%	4392	3366	649	34%	1586	1615				
Released Total ²	69233	5%	132593	118879	26355	7%	47163	68096	68	59%	100	758

¹Cumulative released catch (from July 2020) to date summed across periods where surveys are active

²Including 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 2020. 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	126	23%	411	620	609	19%	886	629	1160	13%	1852	1953
111	29	52%	117	248	8	87%	50	107	34	54%	316	709
12	793	23%	1114	1148	166	32%	250	610	720	17%	1241	2061
13	20	101%	20	27	383	26%	632	2129	854	39%	1190	1145
14	3	134%	3	28	92	59%	193	481	287	33%	489	987
15	0		0	0	32	81%	85	503	39	58%	95	779
16	0		0	0	252	43%	3579	804	441	34%	2891	2479
17	0		0	0	217	34%	586	749	618	36%	1227	1641
18	0		0	0	98	34%	114	393	286	43%	617	1102
19	134	39%	424	344	123	43%	138	123	511	33%	1050	985
20	177	41%	343	190	454	28%	921	514	3062	16%	3887	3159
21	55	73%	79	55	5	184%	25	140	63	50%	111	531
121	1381	32%	3212	4587	366	48%	559	297	532	26%	1243	1026
23	35	58%	156	171	501	25%	846	674	1363	26%	2142	3310
123	2233	19%	3348	3044	44	48%	187	314	409	56%	655	914
24	21	57%	37	116	114	47%	186	248	148	28%	358	672
124	255	36%	412	896	125	39%	482	1345	191	28%	554	1414
25	27	84%	88	261	235	36%	991	677	534	26%	1608	2139
125	78	45%	512	1020	306	44%	882	1846	391	32%	1132	2173
26	64		195	208	1437		3271	1057	2772		4793	2702
126	360		851	2162	394		758	2893	279		613	2036
27	200	20%	394	472	513	18%	1081	1017	658	17%	1504	1925
127	276	30%	481	1252	627	28%	953	2039	248	28%	567	1936
28	0		0	0	0		0	15	0		0	192
29	0		0	0	43	59%	248	225	394	46%	636	356
Kept Total ³	6267	11%	12197	16849	7144	8%	17903	19829	15994	7%	30771	38326

¹ All rockfishes; including those not identified to species

² Cumulative kept catch (from July 2020) 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 2020. 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 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 ¹
11	7	59%	49	67	152	34%	342	252	1507	16%	2632	1203
111	1		10	21	20	86%	89	383	70	47%	197	1072
12	39	50%	64	221	265	47%	334	263	2497	15%	3884	3792
13	0		24	54	1986	21%	3701	3998	1670	20%	2320	2519
14	0		4	39	1338	25%	2283	2358	1206	24%	1765	2668
15	0		0	0	557	38%	1908	164	370	31%	1050	1360
16	0		0	0	676	37%	2351	826	1913	24%	6854	2836
17	0		0	0	326	31%	1354	448	269	31%	1616	1644
18	0		82	48	653	22%	677	406	456	26%	1003	1390
19	19	102%	81	68	1629	30%	2216	1387	1309	30%	2188	1506
20	0		76	72	1343	23%	2362	2059	1956	23%	3460	3981
21	0		0	58	1		17	191	0		9	302
121	37	60%	68	136	28	75%	111	101	69	84%	149	390
23	0		0	58	236	41%	1421	1187	682	34%	1997	2502
123	25	61%	57	450	42	53%	176	184	41	60%	143	489
24	10	102%	10	6	30	46%	106	138	56	57%	73	537
124	18	98%	18	64	55	46%	301	370	40	55%	399	626
25	0	166%	0	143	95	77%	867	576	563	43%	1452	3108
125	10	166%	79	130	225	43%	995	391	214	50%	1804	935
26	17		46	66	84		167	178	331		1358	841
126	47		206	905	27		61	334	246		613	1169
27	9	70%	66	88	168	29%	460	399	1155	23%	2084	1929
127	9	70%	17	275	73	47%	354	319	282	37%	725	933
28	0		0	0	0		0	48	0		0	290
29	0		0	0	68	65%	178	428	23	104%	41	324
Released Total ³	248	26%	957	2969	10077	9%	22831	17388	16925	7%	37816	38346

¹ All rockfishes; including those not identified to species

² Cumulative released catch (from July 2020) 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 2020, 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
121	Swiftsure Bank	1127	1639	7800	0	0	0
123	Offshore Barkley	3228	5291	9650	0	0	0
124	Offshore Clayoquot	1296	1440	4000	0	0	0
125	Offshore Nootka	72	99	2050	0	0	0
126	Offshore Kyuquot	273	407	3650	0	0	0
127	Offshore Quatsino	82	313	1500	0	0	0
20 (West)	Juan de Fuca	0	0	0	4803	5652	6750
21	Nitinat	0	266	300	141	141	850
23 - 3 to 11	Barkley Sound	0	2745	3450	10053	10053	8750
23 -1,2	Alberni Inlet	0	16	50	5487	5487	2950
24	Clayoquot Sound	0	336	1000	525	525	750
25	Nootka Snd. / Esperanza Inlet	0	0	0	3916	9070	12900
26	Kyuquot Sound	0	0	0	1260	2988	2300
27	Quatsino Sound	0	0	0	299	1076	2350
Total		6078	12552	33450	26484	34992	37600

¹Cumulative kept (from July 2020) to date summed across periods where surveys are active.

²Cumulative kept to date 5 year averages have been rounded to the nearest 50 fish.