FISHERIES AND OCEANS CANADA

South Coast Assessment Bulletin

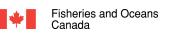
CREEL SURVEY DATA REVIEW PACKAGE

Area 17 August 2020



Prepared By: South Coast Salmon Stock Assessment Section

Wednesday 3rd February, 2021



Pêches et Océans Canada



Table 1: Numbers of Interviews conducted contributing to the area by day and access site.

		Brech	hin	Cowichan Bay	Crofton	Ramp	Ladys	mith	McDonal	ld Beach	Planetar- ium	Scho	oner	Sewell's West	Sidney
Date	Day Type	AM	PM	PM	AM	PM	AM	PM	AM	PM	PM	AM	PM	PM	PM
29 Jul 2020	Midweek					4									
30 Jul 2020	Midweek						5								
31 Jul 2020	Midweek		22										2		
01 Aug 2020	Weekend														
02 Aug 2020	Weekend									8					
03 Aug 2020	Weekend														
04 Aug 2020	Midweek							18				1			1
05 Aug 2020	Midweek		11				3		1						
06 Aug 2020	Midweek	1													
07 Aug 2020	Midweek		8							2					
08 Aug 2020	Weekend												5		
09 Aug 2020	Weekend		26												
10 Aug 2020	Midweek														
11 Aug 2020	Midweek												1		
12 Aug 2020	Midweek													1	
13 Aug 2020	Midweek														
14 Aug 2020	Midweek	16													
15 Aug 2020	Weekend		18												
16 Aug 2020	Weekend			1				9							
17 Aug 2020	Midweek						1								
18 Aug 2020	Midweek							3							
19 Aug 2020	Midweek														
20 Aug 2020	Midweek	1										1			
21 Aug 2020	Midweek		1												
22 Aug 2020	Weekend	31													
23 Aug 2020	Weekend					3						4			
24 Aug 2020	Midweek														
25 Aug 2020	Midweek					5									
26 Aug 2020	Midweek														
27 Aug 2020	Midweek				1						3				
28 Aug 2020	Midweek														
29 Aug 2020	Weekend		1												
30 Aug 2020	Weekend							17	1						
31 Aug 2020	Midweek														
01 Sep 2020	Midweek	11					1						7		
02 Sep 2020	Midweek		13			3									
03 Sep 2020	Midweek														

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Date	Day	Average Fishing Conditions	Interviews & Log Trips	Chinook	Coho	Sockeye	Halibut	Observed Fishing	Flight Time	Expanded Fishing
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	29-Jul-2020	Wednesday	calm/rippled	5	1						
01-Aug-2020 Saturday 5 9 99 1140 244 02-Aug-2020 Sunday (B.C. 1 3 3 1 3 1 2 2 1 3 1 </td <td>30-Jul-2020</td> <td>Thursday</td> <td></td> <td>6</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	30-Jul-2020	Thursday		6	2						
$ \begin{array}{ c c c c c c c } \hline 02-Aug-2020 & Sunday & choppy & 9 & 4 & 1 \\ \hline 03-Aug-2020 & Monday (B.C. & 1 & 3 \\ \hline Day & & & & & & & & & \\ \hline 04-Aug-2020 & Tucsday & choppy & 20 & & & & & & & & \\ \hline 05-Aug-2020 & Tucsday & choppy & 16 & 5 & 8 & & & & & & & & & \\ \hline 06-Aug-2020 & Thursday & frequent & 1 & & & & & & & & & & & \\ \hline whitecaps & & & & & & & & & & & & & & \\ \hline 07-Aug-2020 & Sturday & choppy & 6 & 4 & 2 & & & & & & \\ \hline 08-Aug-2020 & Sturday & choppy & 6 & 4 & 2 & & & & & & \\ \hline 08-Aug-2020 & Sturday & choppy & 26 & 5 & 3 & & & & & & & \\ \hline 08-Aug-2020 & Sturday & choppy & 1 & & & & & & & & \\ \hline 10-Aug-2020 & Monday & & & & & & & & & & \\ \hline 11-Aug-2020 & Tucsday & choppy & 2 & 4 & & & & & & & \\ \hline 11-Aug-2020 & Tucsday & choppy & 2 & 4 & & & & & & \\ \hline 13-Aug-2020 & Thursday & choppy & 1 & & & & & & & \\ \hline 15-Aug-2020 & Sturday & choppy & 14 & 1 & & & & & & \\ \hline 15-Aug-2020 & Sturday & choppy & 14 & 1 & & & & & \\ \hline 18-Aug-2020 & Tucsday & choppy & 14 & 1 & & & & & \\ \hline 18-Aug-2020 & Tucsday & choppy & 1 & & & & & & \\ \hline 18-Aug-2020 & Tucsday & choppy & 1 & & & & & & \\ \hline 19-Aug-2020 & Tucsday & choppy & 1 & & & & & \\ \hline 12-Aug-2020 & Tucsday & choppy & 1 & & & & & \\ \hline 12-Aug-2020 & Tucsday & choppy & 1 & & & & & \\ \hline 12-Aug-2020 & Tucsday & choppy & 1 & & & & & \\ \hline 12-Aug-2020 & Tucsday & choppy & 1 & & & & & \\ \hline 12-Aug-2020 & Tucsday & choppy & 7 & & & & & & \\ \hline 22-Aug-2020 & Sturday & choppy & 5 & & & & & & \\ \hline 22-Aug-2020 & Monday & & & & & & & & & & & \\ \hline 22-Aug-2020 & Wechesday & & & & & & & & & & & \\ \hline 13-Aug-2020 & Tucsday & clam/tripled & 6 & 1 & 2 & & & & & & & \\ \hline 23-Aug-2020 & Tucsday & clam/tripled & 6 & & & & & & & & & & & \\ \hline 23-Aug-2020 & Wochesday & & & & & & & & & & & & & \\ \hline 23-Aug-2020 & Tucsday & clam/tripled & 6 & & & & & & & & & & & & & \\ \hline 23-Aug-2020 & Wochesday & & & & & & & & & & & & & & & \\ \hline 31-Aug-2020 & Tucsday & clam/tripled & 6 & & & & & & & & & & & & & & & \\ \hline 20-Aug-2020 & Wochesday & & & & & & & & & & & & & & & & & \\ \hline 01-Serp-202 & Wochesday & & & & & & & & & & & & & & & & & \\ \hline 01-Serp-202$	31-Jul-2020	Friday	calm/rippled	25	2	2			49	1154	120
	01-Aug-2020	Saturday		5	9				99	1140	244
	02-Aug-2020	Sunday	choppy	9	4	1					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	03-Aug-2020	Monday (B.C.		1	3						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Day)									
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	04-Aug-2020	Tuesday	choppy	20							
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					5	8			38	1105	90
whitecaps whitecaps 07-Aug-2020 Friday choppy 12 1 3 08-Aug-2020 Saturday choppy 26 5 3 28 1151 68 10-Aug-2020 Monday 1 10 21 1137 51 11-Aug-2020 Tuesday choppy 2 4 21 1137 51 12-Aug-2020 Wednesday choppy 2 4 21 1137 51 13-Aug-2020 Tuesday choppy 2 4 2 14 14 14 326 16-Aug-2020 Saturday choppy 20 4 2 14 326 16-Aug-2020 Sturday choppy 14 1 11 326 16-Aug-2020 Sturday choppy 1 1 11 11 12 13 1143 326 16-Aug-2020 Friday choppy 1 1 1 12	06-Aug-2020	Thursday		1							
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	C										
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	07-Aug-2020	Friday		12	1	3					
09-Aug-2020 Sunday choppy 26 5 3 28 1151 68 10-Aug-2020 Monday 1 10 21 1137 51 11-Aug-2020 Tuesday choppy 2 4 21 1137 51 12-Aug-2020 Wednesday choppy 2 4 2 2 14-Aug-2020 Friday calm/rippled 18 4 2 2 14-Aug-2020 Saturday choppy 20 4 2 2 15-Aug-2020 Saturday choppy 10 4 2 2 16-Aug-2020 Sunday calm/rippled 2 1 133 1143 326 16-Aug-2020 Tuesday calm/rippled 2 1 1 1 2 19-Aug-2020 Tuesday choppy 1 1 1 1 2 1 13 1137 286 23-Aug-2020 Tuesday cho					4						
10-Aug-2020 Monday 1 10 11-Aug-2020 Tuesday choppy 1 21 1137 51 12-Aug-2020 Tuesday choppy 2 2 1 137 51 12-Aug-2020 Thursday 2 2 1 137 51 13-Aug-2020 Thursday choppy 2 4 2 1 133 1143 326 16-Aug-2020 Saurday choppy 20 4 133 1143 326 16-Aug-2020 Saurday choppy 14 1									28	1151	68
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				1	10						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		•	choppy	1					21	1137	51
13-Aug-2020 Thursday 2 2 14-Aug-2020 Friday calm/rippled 18 4 2 15-Aug-2020 Saturday choppy 20 4 133 1143 326 15-Aug-2020 Sunday choppy 14 1 133 1143 326 16-Aug-2020 Sunday calm/rippled 2 1 133 1143 326 18-Aug-2020 Monday calm/rippled 2 1					4						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			115								
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$			calm/rippled			2					
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$		•							133	1143	326
17-Aug-2020 Monday calm/rippled 2 18-Aug-2020 Tuesday calm/rippled 5 1 1 19-Aug-2020 Wednesday 1 6 1027 13 20-Aug-2020 Thursday choppy 2 1 6 1027 13 21-Aug-2020 Friday choppy 1 1 17 1137 286 22-Aug-2020 Saturday calm/rippled 32 5 8 117 1137 286 23-Aug-2020 Sunday choppy 7 7 7 7 7 24-Aug-2020 Monday 0 0 7											
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$											
19-Aug-2020 Wednesday 1 20-Aug-2020 Thursday choppy 2 1 6 1027 13 21-Aug-2020 Friday choppy 1 1 1 1 1 1 1 22-Aug-2020 Saturday calm/rippled 32 5 8 117 1137 286 23-Aug-2020 Sunday choppy 7					1	1					
20-Aug-2020 Thursday choppy 2 1 6 1027 13 21-Aug-2020 Friday choppy 1 1 117 1137 286 22-Aug-2020 Saturday calm/rippled 32 5 8 117 1137 286 23-Aug-2020 Sunday choppy 7 7 7 7 7 7 24-Aug-2020 Monday 0 0 7			11								
21-Aug-2020 Friday choppy 1 22-Aug-2020 Saturday calm/rippled 32 5 8 117 1137 286 23-Aug-2020 Sunday choppy 7 7 7 7 7 24-Aug-2020 Monday 0 0 7 1 1 1 7 7 1 <			choppy		1				6	1027	13
22-Aug-2020 Saturday calm/rippled 32 5 8 117 1137 286 23-Aug-2020 Sunday choppy 7 7 7 7 7 24-Aug-2020 Monday 0 0 7<											
23-Aug-2020 Sunday choppy 7 24-Aug-2020 Monday 0 25-Aug-2020 Tuesday choppy 5 26-Aug-2020 Wednesday 0 27-Aug-2020 Thursday calm/rippled 6 1 2 18 1051 42 28-Aug-2020 Thursday calm/rippled 6 1 2 18 1051 42 28-Aug-2020 Friday 1 1 1 73 1116 175 29-Aug-2020 Saturday frequent 1 1 4 1105 9 30-Aug-2020 Sunday choppy 18 1 1 1 105 9 31-Aug-2020 Monday 0 0 0 0 1 1 1 105 9 01-Sep-2020 Tuesday calm/rippled 19 8 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td></td> <td>•</td> <td></td> <td></td> <td>5</td> <td>8</td> <td></td> <td></td> <td>117</td> <td>1137</td> <td>286</td>		•			5	8			117	1137	286
24-Aug-2020 Monday 0 25-Aug-2020 Tuesday choppy 5 26-Aug-2020 Wednesday 0 27-Aug-2020 Thursday calm/rippled 6 1 2 18 1051 42 28-Aug-2020 Friday 1 1 1 73 1116 175 29-Aug-2020 Saturday frequent 1 1 4 1105 9 whitecaps 30-Aug-2020 Sunday choppy 18 1 1 105 9 0-Aug-2020 Sunday choppy 18 1105 9 9 01-Sep-2020 Monday 0 0 0 0 0 0 01-Sep-2020 Tuesday calm/rippled 19 8 0 0 0 0 02-Sep-2020 Wednesday calm/rippled 16 1 0 0 0 0			· · ·								
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			117								
26-Aug-2020 Wednesday 0 27-Aug-2020 Thursday calm/rippled 6 1 2 18 1051 42 28-Aug-2020 Friday 1 1 1 73 1116 175 29-Aug-2020 Saturday frequent 1 1 1 73 1116 175 29-Aug-2020 Saturday frequent 1 1 1 4 1105 9 30-Aug-2020 Sunday choppy 18 1 1 105 9 31-Aug-2020 Monday 0 0 1 19 8 1 1 1 1 01-Sep-2020 Tuesday calm/rippled 19 8 1 1 1 1 1 02-Sep-2020 Wednesday calm/rippled 16 1 <td></td> <td>•</td> <td>choppy</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		•	choppy								
27-Aug-2020 Thursday calm/rippled 6 1 2 18 1051 42 28-Aug-2020 Friday 1 1 1 73 1116 175 29-Aug-2020 Saturday frequent 1 1 4 1105 9 29-Aug-2020 Saturday frequent component 1 4 1105 9 30-Aug-2020 Sunday choppy 18		•	115								
28-Aug-2020 Friday 1 1 1 10 10 175 29-Aug-2020 Saturday frequent whitecaps 1 1 1 105 9 30-Aug-2020 Sunday choppy 18 105 9 105 </td <td></td> <td></td> <td>calm/rippled</td> <td></td> <td>1</td> <td>2</td> <td></td> <td></td> <td>18</td> <td>1051</td> <td>42</td>			calm/rippled		1	2			18	1051	42
29-Aug-2020Saturdayfrequent whitecaps141105930-Aug-2020Sundaychoppy1831-Aug-2020Monday001-Sep-2020Tuesdaycalm/rippled19802-Sep-2020Wednesdaycalm/rippled161			11								
whitecaps30-Aug-2020Sundaychoppy1831-Aug-2020Monday001-Sep-2020Tuesdaycalm/rippled1902-Sep-2020Wednesdaycalm/rippled161		•	frequent								
30-Aug-2020Sundaychoppy1831-Aug-2020Monday001-Sep-2020Tuesdaycalm/rippled19802-Sep-2020Wednesdaycalm/rippled161	0	<u>,</u>									
31-Aug-2020Monday001-Sep-2020Tuesdaycalm/rippled19802-Sep-2020Wednesdaycalm/rippled161	30-Aug-2020	Sunday		18							
01-Sep-2020Tuesdaycalm/rippled19802-Sep-2020Wednesdaycalm/rippled161			112								
02-Sep-2020 Wednesday calm/rippled 16 1			calm/rippled		8						
		•									
03-Sep-2020 Thursday 1	03-Sep-2020	Thursday	11								
Totals choppy 96 30 16 31* 74*	1		choppy		30	16			31*		74*
Totals choppy 139 35 14 76* 187*											

Table 2: Daily tally of interviews, catch and effort.

* Average number of boats Observed and Expanded

					CPUE				Retained				
Day Type	Average	Number of	Total	Chinook	Coho	Sockeye	Halibut	Chinook	Coho	Sockeye	Halibut		
	Expanded	Days	Estimated										
	Boats		Effort										
Midweek	74	20	1480	0.3130	0.1670			463	247				
Weekend	187	11	2057	0.2520	0.1010			518	208				

Table 3: Simple area based cpue (catch per boat trip) expansion.

Table 4: Recent years estimates of retained catch and effort.

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2015	August	2876	343	281		
2016	August	2960	905	426		
2017	August	5457	829	345		
2018	August	2872	456	1123	196	
2019	August	3261	735	380		0
2020	August	3428	538	648		0
5-Yr Avg	August	3485	654	511	196	0

Table 5: Sport Head Recovery Review.

Species		Mark	Creel Submission	iRec Marked		iRec Submission	Sport Head Recoveries
	Catch	Rate	Rate	Catch	Rate	Rate	

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	225	5%
iRec Anglers	6789	12%

4

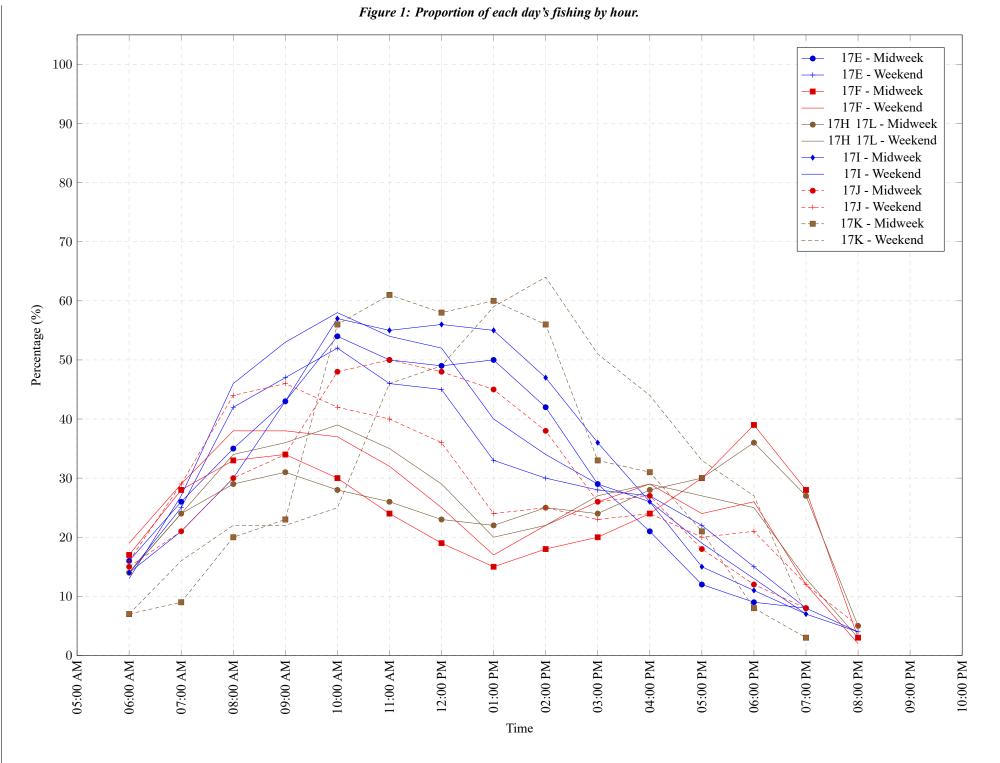


Table 7: Proportion of each day's fishing by hour.

Areas	Day Type	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	01:00 PM	02:00 PM	03:00 PM	04:00 PM	05:00 PM	06:00 PM	07:00 PM	08:00 PM	09:00 PM	10:00 PM
	X #1 1																	
17E	Midweek	16%	26%	35%	43%	54%	50%	49%	50%	42%	29%	21%	12%	9%	8%	0%	0%	0%
17E	Weekend	14%	25%	42%	47%	52%	46%	45%	33%	30%	28%	27%	22%	15%	8%	4%	0%	0%
17F	Midweek	17%	28%	33%	34%	30%	24%	19%	15%	18%	20%	24%	30%	39%	28%	3%	0%	0%
17F	Weekend	19%	29%	38%	38%	37%	32%	25%	17%	22%	26%	29%	24%	26%	12%	2%	0%	0%
17H 17L	Midweek	14%	24%	29%	31%	28%	26%	23%	22%	25%	24%	28%	30%	36%	27%	5%	0%	0%
17H 17L	Weekend	14%	24%	34%	36%	39%	35%	29%	20%	22%	27%	29%	27%	25%	13%	3%	0%	0%
17I	Midweek	14%	21%	30%	43%	57%	55%	56%	55%	47%	36%	26%	15%	11%	7%	0%	0%	0%
17I	Weekend	13%	27%	46%	53%	58%	54%	52%	40%	34%	29%	26%	19%	13%	7%	4%	0%	0%
17J	Midweek	15%	21%	30%	34%	48%	50%	48%	45%	38%	26%	27%	18%	12%	8%	0%	0%	0%
17J	Weekend	16%	29%	44%	46%	42%	40%	36%	24%	25%	23%	24%	20%	21%	12%	5%	0%	0%
17K	Midweek	7%	9%	20%	23%	56%	61%	58%	60%	56%	33%	31%	21%	8%	3%	0%	0%	0%
17K	Weekend	7%	16%	22%	22%	25%	46%	49%	59%	64%	51%	44%	33%	27%	7%	0%	0%	0%

 \boldsymbol{v}

Table 8: Daily Fishing Conditions.

Date	Day Type	Brechin	Cowichan Bay	Crofton Ramp	Ladysmith	McDonald Beach	Planetarium	Schooner	Sewell's West	Sidney
29 Jul 2020	Midweek			calm/rippled						
30 Jul 2020	Midweek			11	calm/rippled					
31 Jul 2020	Midweek	calm/rippled			11			choppy		
01 Aug 2020	Weekend	11						117		
02 Aug 2020	Weekend					choppy				
03 Aug 2020	Weekend									
04 Aug 2020	Midweek				choppy			choppy		calm/rippled
05 Aug 2020	Midweek	choppy			choppy	choppy				**
06 Aug 2020	Midweek	frequent			112	117				
C		whitecaps								
07 Aug 2020	Midweek	choppy				choppy				
08 Aug 2020	Weekend	112				117		choppy		
09 Aug 2020	Weekend	choppy								
10 Aug 2020	Midweek									
11 Aug 2020	Midweek							choppy		
12 Aug 2020	Midweek								choppy	
13 Aug 2020	Midweek									
14 Aug 2020	Midweek	calm/rippled								
15 Aug 2020	Weekend	choppy								
16 Aug 2020	Weekend		choppy		choppy					
17 Aug 2020	Midweek				calm/rippled					
18 Aug 2020	Midweek				calm/rippled					
19 Aug 2020	Midweek									
20 Aug 2020	Midweek	choppy						frequent whitecaps		
21 Aug 2020	Midweek	choppy								
22 Aug 2020	Weekend	calm/rippled								
23 Aug 2020	Weekend			choppy				choppy		
24 Aug 2020	Midweek									
25 Aug 2020	Midweek			choppy						
26 Aug 2020	Midweek									
27 Aug 2020	Midweek			calm/rippled			calm/rippled			
28 Aug 2020	Midweek									
29 Aug 2020	Weekend	frequent whitecaps								
30 Aug 2020	Weekend				choppy	choppy				
31 Aug 2020	Midweek									
01 Sep 2020	Midweek	calm/rippled			calm/rippled			calm/rippled		
02 Sep 2020	Midweek	choppy		calm/rippled						
03 Sep 2020	Midweek									