

FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 20 (East) August 2021



Prepared By:

South Coast Salmon Stock Assessment Section

Thursday 10th February, 2022



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

Date	Day Type	Becher Bay		Flemming		Pedder Bay		Prestige Hotel Ramp		Sooke Harbour Marina	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
29 Jul 2021	Midweek	15									
30 Jul 2021	Midweek						15				
31 Jul 2021	Weekend	15					26				8
01 Aug 2021	Weekend						29				
02 Aug 2021	Weekend		14			35					19
03 Aug 2021	Midweek	22									15
04 Aug 2021	Midweek									20	
05 Aug 2021	Midweek										
06 Aug 2021	Midweek		2								
07 Aug 2021	Weekend								25		
08 Aug 2021	Weekend			1							14
09 Aug 2021	Midweek							30			
10 Aug 2021	Midweek						35				
11 Aug 2021	Midweek										
12 Aug 2021	Midweek										
13 Aug 2021	Midweek										
14 Aug 2021	Weekend							26		23	
15 Aug 2021	Weekend	14					14				
16 Aug 2021	Midweek					8					8
17 Aug 2021	Midweek		13								
18 Aug 2021	Midweek	11									
19 Aug 2021	Midweek										
20 Aug 2021	Midweek						30				
21 Aug 2021	Weekend				5						
22 Aug 2021	Weekend		4								
23 Aug 2021	Midweek			2							
24 Aug 2021	Midweek							28			
25 Aug 2021	Midweek										
26 Aug 2021	Midweek										
27 Aug 2021	Midweek										
28 Aug 2021	Weekend	31									
29 Aug 2021	Weekend				2				12		
30 Aug 2021	Midweek					3					
31 Aug 2021	Midweek									8	
01 Sep 2021	Midweek										
02 Sep 2021	Midweek										
03 Sep 2021	Midweek		16								

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

Date	Day	Average Fishing Conditions	Interviews & Log Trips	Chinook	Coho	Sockeye	Halibut	Observed Fishing	Flight Time	Expanded Fishing
29-Jul-2021	Thursday	choppy	16		1					
30-Jul-2021	Friday	frequent whitecaps	16	3	2					
31-Jul-2021	Saturday	choppy	49	4	2					
01-Aug-2021	Sunday	choppy	31	17	1		3			
02-Aug-2021	Monday (B.C. Day)	choppy	69	42	9					
03-Aug-2021	Tuesday	choppy	39	14	3			3	0835	6
04-Aug-2021	Wednesday	choppy	23	26	1					
05-Aug-2021	Thursday		1	1				4	0839	8
06-Aug-2021	Friday	frequent whitecaps	2	1	1					
07-Aug-2021	Saturday	frequent whitecaps	27	12	5		2	318	0839	557
08-Aug-2021	Sunday	frequent whitecaps	16	24				172	0846	301
09-Aug-2021	Monday	choppy	33	37	2			211	0859	354
10-Aug-2021	Tuesday	calm/rippled	38	31	4					
11-Aug-2021	Wednesday		3	4						
12-Aug-2021	Thursday		2	1						
13-Aug-2021	Friday		4	11						
14-Aug-2021	Saturday	frequent whitecaps	50	85	1			7	0850	12
15-Aug-2021	Sunday	frequent whitecaps	29	13	2					
16-Aug-2021	Monday	frequent whitecaps	17	13				92	0837	177
17-Aug-2021	Tuesday	frequent whitecaps	14	8	1					
18-Aug-2021	Wednesday	calm/rippled	12	3						
19-Aug-2021	Thursday		3	5						
20-Aug-2021	Friday	choppy	31	13	2					
21-Aug-2021	Saturday	frequent whitecaps	8	10						
22-Aug-2021	Sunday	choppy	6	2				79	0856	141
23-Aug-2021	Monday	calm/rippled	4	5						
24-Aug-2021	Tuesday	choppy	29	25	5			168	0850	283
25-Aug-2021	Wednesday		1	1						
26-Aug-2021	Thursday		1							
27-Aug-2021	Friday		2	2	1					
28-Aug-2021	Saturday	calm/rippled	32	7	1			0	0824	0
29-Aug-2021	Sunday	frequent whitecaps	15	7	2					
30-Aug-2021	Monday	frequent whitecaps	4					29	0901	49
31-Aug-2021	Tuesday	choppy	9	4	2					
01-Sep-2021	Wednesday		1	1						
02-Sep-2021	Thursday		1		1					
03-Sep-2021	Friday	calm/rippled	17	6						
	Totals	choppy	272	205	22			85*		146*
	Totals	frequent whitecaps	283	219	21		5	115*		202*

* Average number of boats Observed and Expanded

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

Day Type	Average Expanded Boats	Number of Days	Total Estimated Effort	CPUE				Retained			
				Chinook	Coho	Sockeye	Halibut	Chinook	Coho	Sockeye	Halibut
Midweek	146	21	3066	0.754	0.081			2312	248		
Weekend	202	10	2020	0.774	0.074		0.018	1563	149		36

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2016	August	8726	5486	2054		150
2017	August	9046	7170	838	17	99
2018	August	9029	8702	572	4894	49
2019	August	11070	8320	1497	0	67
2020	August	9936	5026	3568		48
2021	August	8382	6559	754	0	44
5-Yr Avg	August	9561	6941	1706	1637	83

Table 5: Sport Head Recovery Review.

Species	Creel Marked Catch	Creel Mark Rate	Creel Submission Rate	iRec Marked Catch	iRec Mark Rate	iRec Submission Rate	Sport Head Recoveries
Coho	1103	91%	17%	814	79%	23%	188
Chinook	1911	17%	49%	1919	23%	49%	932

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	787	14%
iRec Anglers	4288	23%
iRec Anglers	9030	18%

Figure 1: Proportion of each day's fishing by hour.

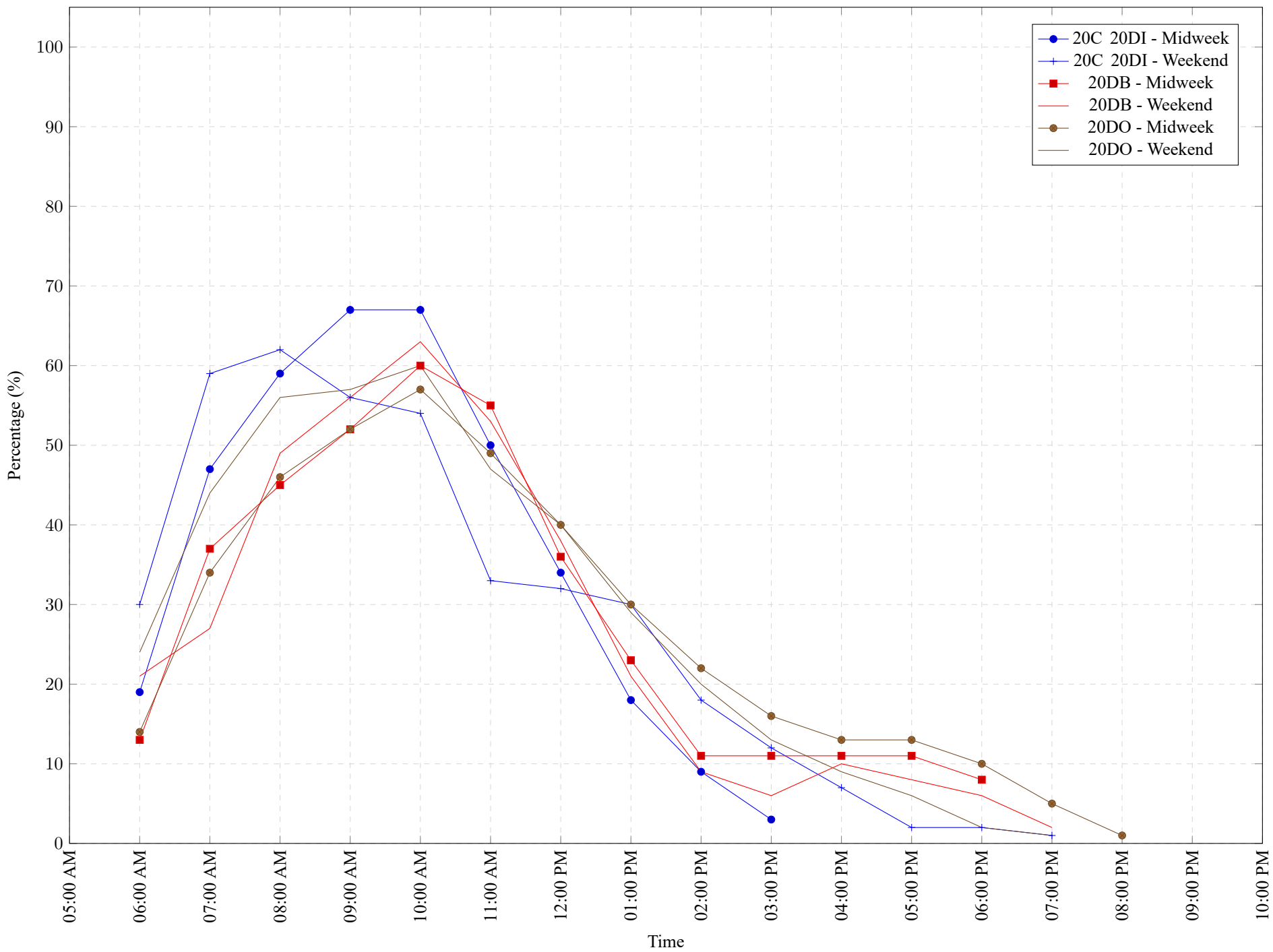


Table 7: Proportion of each day's fishing by hour.

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
20C 20DI	Midweek	19%	47%	59%	67%	67%	50%	34%	18%	9%	3%	0%	0%	0%	0%	0%	0%	0%
20C 20DI	Weekend	30%	59%	62%	56%	54%	33%	32%	30%	18%	12%	7%	2%	2%	1%	0%	0%	0%
20DB	Midweek	13%	37%	45%	52%	60%	55%	36%	23%	11%	11%	11%	11%	8%	0%	0%	0%	0%
20DB	Weekend	21%	27%	49%	56%	63%	53%	38%	21%	9%	6%	10%	8%	6%	2%	0%	0%	0%
20DO	Midweek	14%	34%	46%	52%	57%	49%	40%	30%	22%	16%	13%	13%	10%	5%	1%	0%	0%
20DO	Weekend	24%	44%	56%	57%	60%	47%	40%	29%	20%	13%	9%	6%	2%	1%	0%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	Becher Bay	Flemming	Pedder Bay	Prestige Hotel Ramp	Sooke Harbour Marina
29 Jul 2021	Midweek	choppy				
30 Jul 2021	Midweek			frequent whitecaps		
31 Jul 2021	Weekend	choppy		frequent whitecaps		choppy
01 Aug 2021	Weekend			choppy		
02 Aug 2021	Weekend	choppy		choppy		choppy
03 Aug 2021	Midweek	choppy				frequent whitecaps
04 Aug 2021	Midweek					choppy
05 Aug 2021	Midweek					
06 Aug 2021	Midweek	frequent whitecaps				
07 Aug 2021	Weekend				frequent whitecaps	
08 Aug 2021	Weekend		choppy			frequent whitecaps
09 Aug 2021	Midweek				choppy	
10 Aug 2021	Midweek			calm/rippled		
11 Aug 2021	Midweek					
12 Aug 2021	Midweek					
13 Aug 2021	Midweek					
14 Aug 2021	Weekend				frequent whitecaps	frequent whitecaps
15 Aug 2021	Weekend	choppy		frequent whitecaps		
16 Aug 2021	Midweek			frequent whitecaps		frequent whitecaps
17 Aug 2021	Midweek	frequent whitecaps				
18 Aug 2021	Midweek	calm/rippled				
19 Aug 2021	Midweek					
20 Aug 2021	Midweek			choppy		
21 Aug 2021	Weekend		frequent whitecaps			
22 Aug 2021	Weekend	choppy				
23 Aug 2021	Midweek		calm/rippled			
24 Aug 2021	Midweek				choppy	
25 Aug 2021	Midweek					
26 Aug 2021	Midweek					
27 Aug 2021	Midweek					
28 Aug 2021	Weekend	calm/rippled				
29 Aug 2021	Weekend		frequent whitecaps		frequent whitecaps	
30 Aug 2021	Midweek			frequent whitecaps		
31 Aug 2021	Midweek					choppy
01 Sep 2021	Midweek					
02 Sep 2021	Midweek					
03 Sep 2021	Midweek	calm/rippled				