

FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 20 (East) July 2022



Prepared By:

South Coast Salmon Stock Assessment Section

Thursday 19th January, 2023



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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
28 Jun 2022	Midweek					5					
29 Jun 2022	Midweek						6				
30 Jun 2022	Midweek								7		
01 Jul 2022	Weekend	6									
02 Jul 2022	Weekend		10								
03 Jul 2022	Weekend										1
04 Jul 2022	Midweek			1		4					
05 Jul 2022	Midweek										
06 Jul 2022	Midweek										
07 Jul 2022	Midweek		5								9
08 Jul 2022	Midweek				2						
09 Jul 2022	Weekend	18	7				17				
10 Jul 2022	Weekend			2				19			
11 Jul 2022	Midweek		3			7					
12 Jul 2022	Midweek										
13 Jul 2022	Midweek										
14 Jul 2022	Midweek										
15 Jul 2022	Midweek	6			1		15				
16 Jul 2022	Weekend				3			11			
17 Jul 2022	Weekend					18				8	
18 Jul 2022	Midweek									12	
19 Jul 2022	Midweek								15		
20 Jul 2022	Midweek		5								
21 Jul 2022	Midweek										
22 Jul 2022	Midweek							6			1
23 Jul 2022	Weekend								21		
24 Jul 2022	Weekend		16								10
25 Jul 2022	Midweek				6		16				
26 Jul 2022	Midweek							11			
27 Jul 2022	Midweek										
28 Jul 2022	Midweek										
29 Jul 2022	Midweek		15						12		
30 Jul 2022	Weekend				4		17				
31 Jul 2022	Weekend								15		
01 Aug 2022	Weekend						16				
02 Aug 2022	Midweek										
03 Aug 2022	Midweek										

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
28-Jun-2022	Tuesday	choppy	5		2					
29-Jun-2022	Wednesday	calm/rippled	7		2					
30-Jun-2022	Thursday	choppy	7		14					
01-Jul-2022	Friday (Canada Day)	choppy	6	1						
02-Jul-2022	Saturday	frequent whitecaps	10		1			57	0947	109
03-Jul-2022	Sunday	choppy	1		2					
04-Jul-2022	Monday	calm/rippled	5	2	8					
05-Jul-2022	Tuesday		0					0	0911	0
06-Jul-2022	Wednesday		0							
07-Jul-2022	Thursday	calm/rippled	15		34		3			
08-Jul-2022	Friday	frequent whitecaps	2		6			59	0945	147
09-Jul-2022	Saturday	choppy	42	9	27			105	0950	202
10-Jul-2022	Sunday	calm/rippled	21		29			163	0945	363
11-Jul-2022	Monday	choppy	11	1	13					
12-Jul-2022	Tuesday		0							
13-Jul-2022	Wednesday		1		2			34	0947	72
14-Jul-2022	Thursday		0							
15-Jul-2022	Friday	calm/rippled	22	5	28			87	0949	183
16-Jul-2022	Saturday	choppy	14	1	16					
17-Jul-2022	Sunday	choppy	26		25			71	0949	135
18-Jul-2022	Monday	choppy	12		43					
19-Jul-2022	Tuesday	calm/rippled	15		15		1	69	0944	173
20-Jul-2022	Wednesday	calm/rippled	5		4					
21-Jul-2022	Thursday		0							
22-Jul-2022	Friday	choppy	7		9					
23-Jul-2022	Saturday	choppy	21	1	30		1			
24-Jul-2022	Sunday	calm/rippled	26	1	26			10	0920	23
25-Jul-2022	Monday	calm/rippled	22	2	15					
26-Jul-2022	Tuesday	calm/rippled	11		20			93	0945	235
27-Jul-2022	Wednesday		0							
28-Jul-2022	Thursday		1		1					
29-Jul-2022	Friday	choppy	28	2	22					
30-Jul-2022	Saturday	calm/rippled	21	4	33			184	0947	413
31-Jul-2022	Sunday	choppy	16		9	1				
01-Aug-2022	Monday (B.C. Day)	frequent whitecaps	17	12	3			147	0936	333
02-Aug-2022	Tuesday		0					139	0953	289
03-Aug-2022	Wednesday		1	1	1					
	Totals	choppy	157	12	220		4	57*		135*
	Totals	choppy	204	17	198	1	1	98*		208*

* 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	135	20	2700	0.076	1.401		0.025	205	3783		68
Weekend	208	11	2288	0.083	0.971	0.005	0.005	190	2222	11	11

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2017	July	3594	2138	138	61	
2018	July	6600	4849	132		
2019	July	3548	0	169	0	111
2020	July	4160	121	3142	0	120
2021	July	3039	195	701	0	34
2022	July	5377	438	8245	0	100
5-Yr Avg	July	4188	1461	856	15	88

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	8428	97%	9%	4646	99%	16%	756
Chinook	648	60%	27%	495	47%	36%	176

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	762	13%
iRec Anglers	1747	12%
iRec Anglers	4596	15%

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

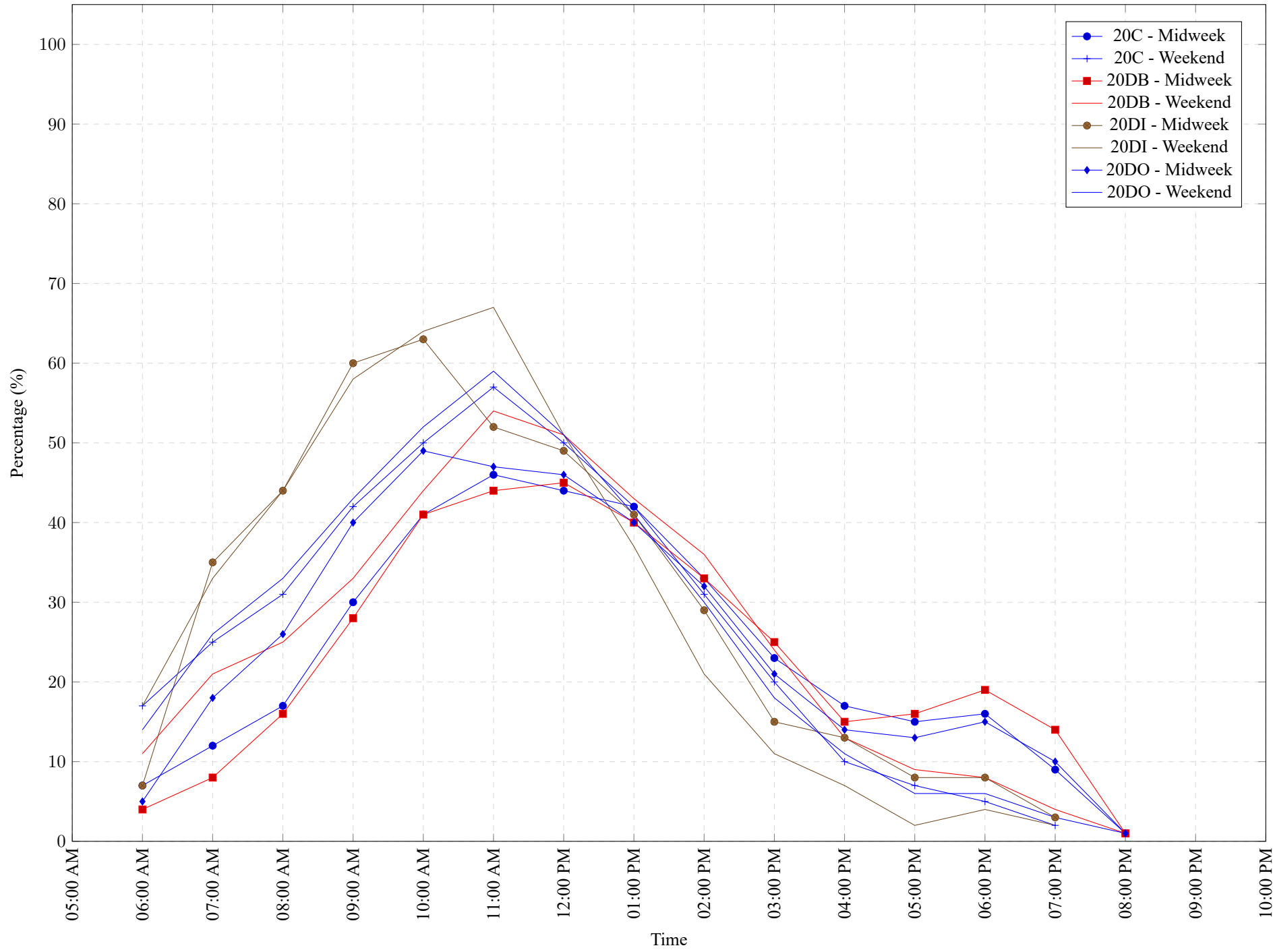


Table 7: Proportion of each day's fishing by hour.

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	Midweek	7%	12%	17%	30%	41%	46%	44%	42%	33%	23%	17%	15%	16%	9%	1%	0%	0%
20C	Weekend	17%	25%	31%	42%	50%	57%	50%	42%	31%	20%	10%	7%	5%	2%	0%	0%	0%
20DB	Midweek	4%	8%	16%	28%	41%	44%	45%	40%	33%	25%	15%	16%	19%	14%	1%	0%	0%
20DB	Weekend	11%	21%	25%	33%	44%	54%	51%	43%	36%	24%	13%	9%	8%	4%	1%	0%	0%
20DI	Midweek	7%	35%	44%	60%	63%	52%	49%	41%	29%	15%	13%	8%	8%	3%	0%	0%	0%
20DI	Weekend	17%	33%	44%	58%	64%	67%	51%	37%	21%	11%	7%	2%	4%	2%	0%	0%	0%
20DO	Midweek	5%	18%	26%	40%	49%	47%	46%	40%	32%	21%	14%	13%	15%	10%	1%	0%	0%
20DO	Weekend	14%	26%	33%	43%	52%	59%	51%	41%	30%	18%	11%	6%	6%	3%	1%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	Becher Bay	Flemming	Pedder Bay	Prestige Hotel Ramp	Sooke Harbour Marina
28 Jun 2022	Midweek			choppy		
29 Jun 2022	Midweek			calm/rippled		
30 Jun 2022	Midweek				choppy	
01 Jul 2022	Weekend	choppy				
02 Jul 2022	Weekend	frequent whitecaps				
03 Jul 2022	Weekend					choppy
04 Jul 2022	Midweek		choppy	calm/rippled		
05 Jul 2022	Midweek					
06 Jul 2022	Midweek					
07 Jul 2022	Midweek	choppy				calm/rippled
08 Jul 2022	Midweek		frequent whitecaps			
09 Jul 2022	Weekend	choppy		frequent whitecaps		
10 Jul 2022	Weekend		choppy		calm/rippled	
11 Jul 2022	Midweek	calm/rippled		choppy		
12 Jul 2022	Midweek					
13 Jul 2022	Midweek					
14 Jul 2022	Midweek					
15 Jul 2022	Midweek	calm/rippled	calm/rippled	calm/rippled		
16 Jul 2022	Weekend		frequent whitecaps		choppy	
17 Jul 2022	Weekend			frequent whitecaps		calm/rippled
18 Jul 2022	Midweek					choppy
19 Jul 2022	Midweek				calm/rippled	
20 Jul 2022	Midweek	calm/rippled				
21 Jul 2022	Midweek					
22 Jul 2022	Midweek				choppy	frequent whitecaps
23 Jul 2022	Weekend				choppy	
24 Jul 2022	Weekend	calm/rippled				calm/rippled
25 Jul 2022	Midweek		calm/rippled	calm/rippled		
26 Jul 2022	Midweek				calm/rippled	
27 Jul 2022	Midweek					
28 Jul 2022	Midweek					
29 Jul 2022	Midweek	choppy			choppy	
30 Jul 2022	Weekend		calm/rippled	calm/rippled		
31 Jul 2022	Weekend				choppy	
01 Aug 2022	Weekend			frequent whitecaps		
02 Aug 2022	Midweek					
03 Aug 2022	Midweek					