

FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 18 September 2022



Prepared By:

South Coast Salmon Stock Assessment Section

Thursday 19th January, 2023



Fisheries and Oceans
Canada

Pêches et Océans
Canada



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

Date	Day Type	Cowichan Bay		Lady-smith PM	Mill Bay	Sidney	
		AM	PM		PM	AM	PM
29 Aug 2022	Midweek						
30 Aug 2022	Midweek						
31 Aug 2022	Midweek		4				
01 Sep 2022	Midweek						
02 Sep 2022	Midweek						
03 Sep 2022	Weekend				2	1	
04 Sep 2022	Weekend						
05 Sep 2022	Weekend						
06 Sep 2022	Midweek						
07 Sep 2022	Midweek		4				
08 Sep 2022	Midweek						
09 Sep 2022	Midweek					3	
10 Sep 2022	Weekend						
11 Sep 2022	Weekend		6				
12 Sep 2022	Midweek		5				1
13 Sep 2022	Midweek					1	
14 Sep 2022	Midweek						3
15 Sep 2022	Midweek						
16 Sep 2022	Midweek		2				
17 Sep 2022	Weekend			1			
18 Sep 2022	Weekend	4				1	2
19 Sep 2022	Midweek						
20 Sep 2022	Midweek						
21 Sep 2022	Midweek						
22 Sep 2022	Midweek		3				
23 Sep 2022	Midweek						
24 Sep 2022	Weekend						
25 Sep 2022	Weekend		5		3		
26 Sep 2022	Midweek						
27 Sep 2022	Midweek						
28 Sep 2022	Midweek						
29 Sep 2022	Midweek						
30 Sep 2022	Midweek	8			3		
01 Oct 2022	Weekend					1	
02 Oct 2022	Weekend						
03 Oct 2022	Midweek				1		

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-Aug-2022	Monday		0					9	1046	21
30-Aug-2022	Tuesday		0							
31-Aug-2022	Wednesday	choppy	4	1						
01-Sep-2022	Thursday		0					14	1137	28
02-Sep-2022	Friday		0							
03-Sep-2022	Saturday	choppy	1					19	1151	35
04-Sep-2022	Sunday	calm/rippled	2							
05-Sep-2022	Monday (Labour Day)		0							
06-Sep-2022	Tuesday		0							
07-Sep-2022	Wednesday	choppy	4					6	1134	12
08-Sep-2022	Thursday		0							
09-Sep-2022	Friday	choppy	3							
10-Sep-2022	Saturday		0					33	1150	58
11-Sep-2022	Sunday	choppy	6	1						
12-Sep-2022	Monday	choppy	6					9	1149	19
13-Sep-2022	Tuesday	calm/rippled	1							
14-Sep-2022	Wednesday	choppy	3							
15-Sep-2022	Thursday		0							
16-Sep-2022	Friday	choppy	2							
17-Sep-2022	Saturday	calm/rippled	1							
18-Sep-2022	Sunday	calm/rippled	7					6	1141	11
19-Sep-2022	Monday		0							
20-Sep-2022	Tuesday		0							
21-Sep-2022	Wednesday		0					11	1149	23
22-Sep-2022	Thursday	choppy	3							
23-Sep-2022	Friday		0							
24-Sep-2022	Saturday		0							
25-Sep-2022	Sunday	choppy	8	1	1			29	1152	51
26-Sep-2022	Monday		0							
27-Sep-2022	Tuesday		0							
28-Sep-2022	Wednesday		0							
29-Sep-2022	Thursday		0							
30-Sep-2022	Friday	calm/rippled	11							
01-Oct-2022	Saturday	calm/rippled	1							
02-Oct-2022	Sunday		0							
03-Oct-2022	Monday	calm/rippled	1							
	Totals	choppy	33					10*		21*
	Totals	choppy	25	2	1			22*		39*

* 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	21	21	441								
Weekend	39	9	351	0.08	0.04			28	14		

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2017	September	1396	604	11		
2018	September	394	22	16		
2019	September	532	54	40		0
2020	September	922	38	63		0
2021	September	665	123	3		20
2022	September	783	86	48		0
5-Yr Avg	September	782	168	27		7

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	34	71%	3%	2	100%	50%	1

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	58	0%
iRec Anglers	1330	17%

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

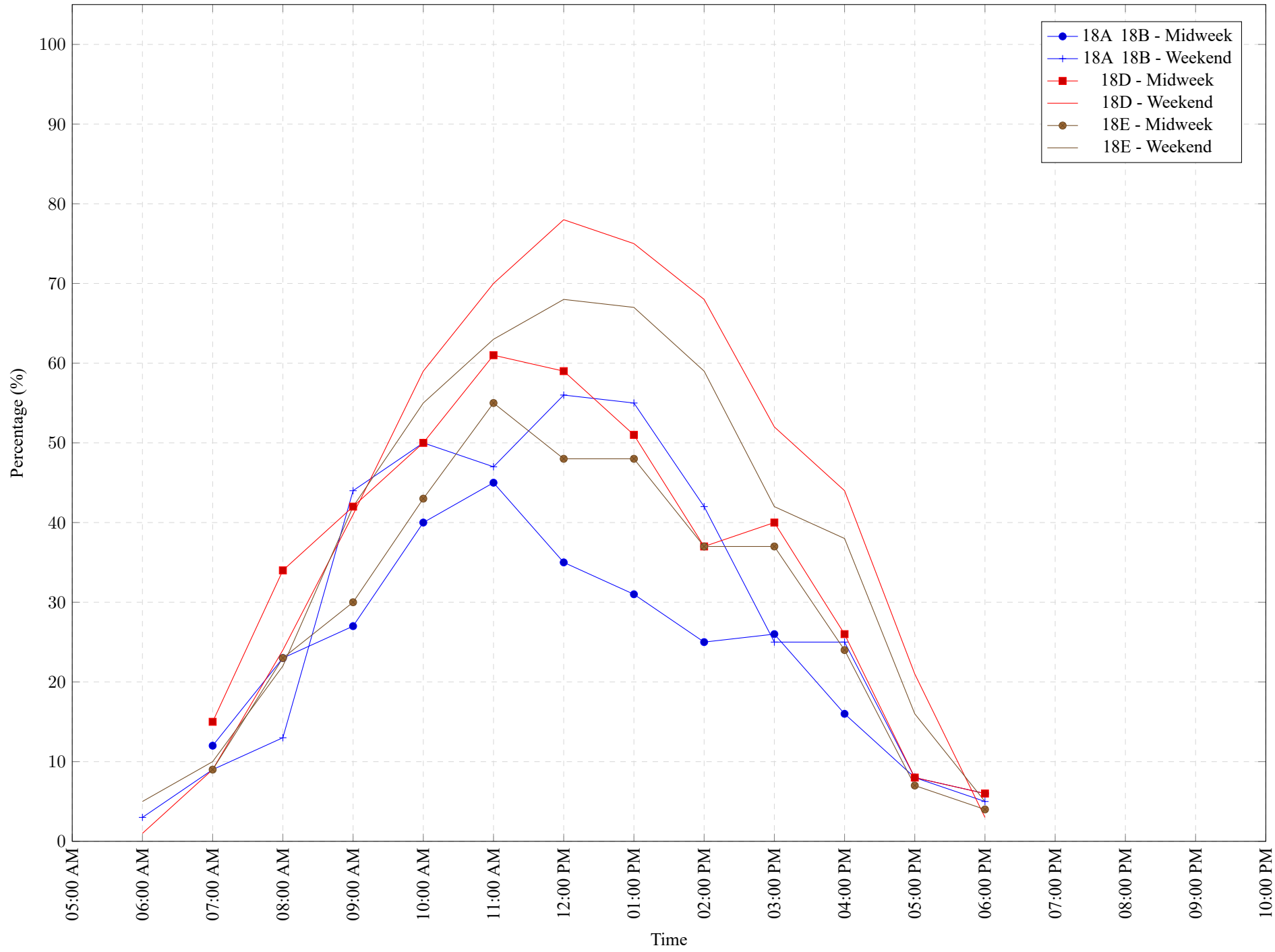


Table 7: Proportion of each day's fishing by hour.

Areas	Day Type	6:00	7:00	8:00	9:00	10:00	11:00	12:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00
		AM	AM	AM	AM	AM	AM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM	PM
18A 18B	Midweek	0%	12%	23%	27%	40%	45%	35%	31%	25%	26%	16%	8%	6%	0%	0%	0%	0%
18A 18B	Weekend	3%	9%	13%	44%	50%	47%	56%	55%	42%	25%	25%	8%	5%	0%	0%	0%	0%
18D	Midweek	0%	15%	34%	42%	50%	61%	59%	51%	37%	40%	26%	8%	6%	0%	0%	0%	0%
18D	Weekend	1%	9%	24%	41%	59%	70%	78%	75%	68%	52%	44%	21%	3%	0%	0%	0%	0%
18E	Midweek	0%	9%	23%	30%	43%	55%	48%	48%	37%	37%	24%	7%	4%	0%	0%	0%	0%
18E	Weekend	5%	10%	22%	42%	55%	63%	68%	67%	59%	42%	38%	16%	5%	0%	0%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	Cowichan Bay	Ladysmith	Mill Bay	Sidney
29 Aug 2022	Midweek	choppy			
30 Aug 2022	Midweek				
31 Aug 2022	Midweek				
01 Sep 2022	Midweek				
02 Sep 2022	Midweek			calm/rippled	choppy
03 Sep 2022	Weekend				
04 Sep 2022	Weekend				
05 Sep 2022	Weekend				
06 Sep 2022	Midweek	choppy			
07 Sep 2022	Midweek				
08 Sep 2022	Midweek				
09 Sep 2022	Midweek				
10 Sep 2022	Weekend	choppy			
11 Sep 2022	Weekend				
12 Sep 2022	Midweek				
13 Sep 2022	Midweek				
14 Sep 2022	Midweek				choppy
15 Sep 2022	Midweek				
16 Sep 2022	Midweek				
17 Sep 2022	Weekend				
18 Sep 2022	Weekend	calm/rippled	calm/rippled		calm/rippled
19 Sep 2022	Midweek				
20 Sep 2022	Midweek				
21 Sep 2022	Midweek				
22 Sep 2022	Midweek				
23 Sep 2022	Midweek	choppy			
24 Sep 2022	Weekend				
25 Sep 2022	Weekend				
26 Sep 2022	Midweek				
27 Sep 2022	Midweek				
28 Sep 2022	Midweek				
29 Sep 2022	Midweek				
30 Sep 2022	Midweek	calm/rippled		calm/rippled	
01 Oct 2022	Weekend				calm/rippled
02 Oct 2022	Weekend				
03 Oct 2022	Midweek				