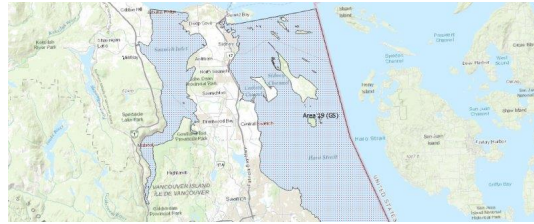


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 19 (GS) August 2022



Prepared By:
South Coast Salmon Stock Assessment Section

Thursday 19th January, 2023



Fisheries and Oceans
Canada

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Canada



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

Date	Day Type	Cattle Point		Cowichan Bay		Mill Bay		Sidney	
		AM	PM	AM	PM	AM	PM	AM	PM
29 Jul 2022	Midweek					1			
30 Jul 2022	Weekend						4		
31 Jul 2022	Weekend					6			
01 Aug 2022	Weekend							14	
02 Aug 2022	Midweek								
03 Aug 2022	Midweek							3	
04 Aug 2022	Midweek								
05 Aug 2022	Midweek							4	
06 Aug 2022	Weekend	1							24
07 Aug 2022	Weekend		1						
08 Aug 2022	Midweek						4		
09 Aug 2022	Midweek								
10 Aug 2022	Midweek								
11 Aug 2022	Midweek								
12 Aug 2022	Midweek								9
13 Aug 2022	Weekend		1						
14 Aug 2022	Weekend			1					
15 Aug 2022	Midweek								
16 Aug 2022	Midweek		2						
17 Aug 2022	Midweek							3	
18 Aug 2022	Midweek								
19 Aug 2022	Midweek								10
20 Aug 2022	Weekend					2		4	
21 Aug 2022	Weekend				1				
22 Aug 2022	Midweek						6		
23 Aug 2022	Midweek		1						
24 Aug 2022	Midweek								
25 Aug 2022	Midweek								
26 Aug 2022	Midweek				1	2			1
27 Aug 2022	Weekend								6
28 Aug 2022	Weekend				1		9		
29 Aug 2022	Midweek								
30 Aug 2022	Midweek								
31 Aug 2022	Midweek				3				
01 Sep 2022	Midweek								
02 Sep 2022	Midweek								
03 Sep 2022	Weekend							3	

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-2022	Friday	calm/rippled	1							
30-Jul-2022	Saturday	calm/rippled	4					2	0941	5
31-Jul-2022	Sunday	calm/rippled	6							
01-Aug-2022	Monday (B.C. Day)	calm/rippled	14	4				15	0932	34
02-Aug-2022	Tuesday		1	2				4	0944	10
03-Aug-2022	Wednesday	choppy	3							
04-Aug-2022	Thursday		0							
05-Aug-2022	Friday	choppy	4							
06-Aug-2022	Saturday	calm/rippled	25	3						
07-Aug-2022	Sunday	calm/rippled	1					16	0943	38
08-Aug-2022	Monday	calm/rippled	5	2						
09-Aug-2022	Tuesday		0							
10-Aug-2022	Wednesday		0							
11-Aug-2022	Thursday		0							
12-Aug-2022	Friday	calm/rippled	9	1				4	0938	13
13-Aug-2022	Saturday	calm/rippled	1	1				12	0939	28
14-Aug-2022	Sunday	calm/rippled	1							
15-Aug-2022	Monday		0							
16-Aug-2022	Tuesday	calm/rippled	2							
17-Aug-2022	Wednesday	calm/rippled	3							
18-Aug-2022	Thursday		0					8	0939	19
19-Aug-2022	Friday	calm/rippled	10	2						
20-Aug-2022	Saturday	choppy	6	1						
21-Aug-2022	Sunday	frequent whitecaps	1					17	0939	39
22-Aug-2022	Monday	calm/rippled	6					0	0901	0
23-Aug-2022	Tuesday	choppy	1					9	0938	22
24-Aug-2022	Wednesday		0							
25-Aug-2022	Thursday		0							
26-Aug-2022	Friday	choppy	4							
27-Aug-2022	Saturday	choppy	6					15	0940	35
28-Aug-2022	Sunday	choppy	10	1						
29-Aug-2022	Monday		0					3	0942	8
30-Aug-2022	Tuesday		0							
31-Aug-2022	Wednesday	choppy	3							
01-Sep-2022	Thursday		0					5	1035	15
02-Sep-2022	Friday		0							
03-Sep-2022	Saturday	choppy	3					6	1041	15
	Totals	calm/rippled	51	7				5*		12*
	Totals	choppy	65	10				15*		35*

* 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	12	22	264	0.137				36			
Weekend	35	9	315	0.154				49			

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2017	August	430	69			
2018	August	645	134			
2019	August	784	264			0
2020	August	638	1			0
2021	August	501	69	0		0
2022	August	626	101	2		0
5-Yr Avg	August	600	107	0		0

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
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Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	116	0%
iRec Anglers	401	5%

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

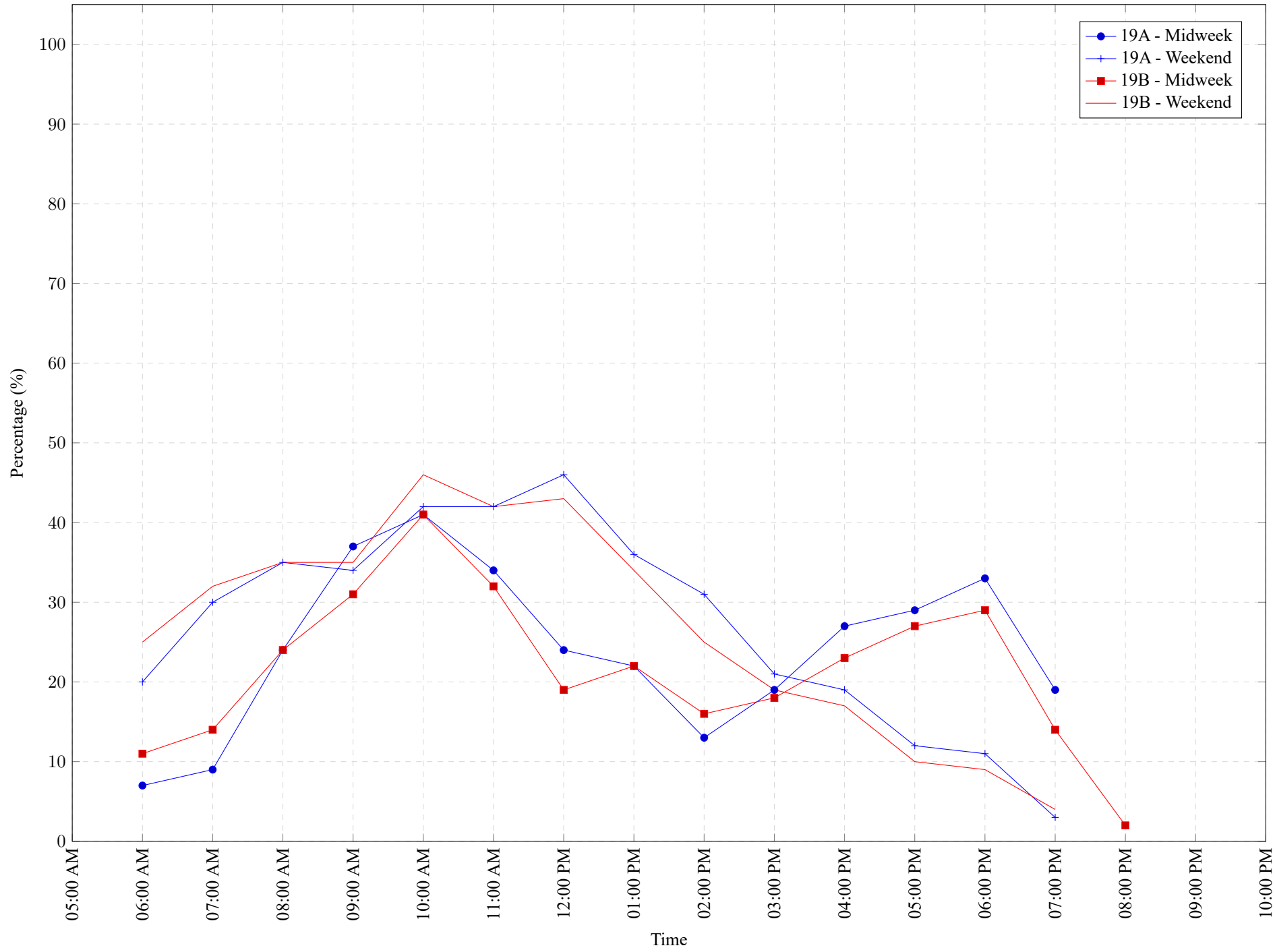


Table 7: Proportion of each day's fishing by hour.

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
19A	Midweek	7%	9%	24%	37%	41%	34%	24%	22%	13%	19%	27%	29%	33%	19%	0%	0%	0%
19A	Weekend	20%	30%	35%	34%	42%	42%	46%	36%	31%	21%	19%	12%	11%	3%	0%	0%	0%
19B	Midweek	11%	14%	24%	31%	41%	32%	19%	22%	16%	18%	23%	27%	29%	14%	2%	0%	0%
19B	Weekend	25%	32%	35%	35%	46%	42%	43%	34%	25%	19%	17%	10%	9%	4%	0%	0%	0%

Table 8: Daily Fishing Conditions.

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