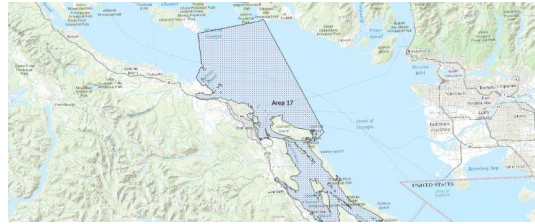


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 17 September 2023



Prepared By:
South Coast Salmon Stock Assessment Section

Saturday 10th February, 2024



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	Brechin		Cooper's Green	Cowichan Bay	Crofton Ramp		Lady- smith	Schooner	
		AM	PM	AM	PM	AM	PM	PM	AM	PM
29 Aug 2023	Midweek							3		
30 Aug 2023	Midweek	11								
31 Aug 2023	Midweek						2			
01 Sep 2023	Midweek									5
02 Sep 2023	Weekend			1		4		14		
03 Sep 2023	Weekend						9			
04 Sep 2023	Weekend								9	
05 Sep 2023	Midweek		17							
06 Sep 2023	Midweek						6			
07 Sep 2023	Midweek									
08 Sep 2023	Midweek									
09 Sep 2023	Weekend									
10 Sep 2023	Weekend									
11 Sep 2023	Midweek									1
12 Sep 2023	Midweek									
13 Sep 2023	Midweek								3	
14 Sep 2023	Midweek									
15 Sep 2023	Midweek		19							
16 Sep 2023	Weekend				1					14
17 Sep 2023	Weekend									1
18 Sep 2023	Midweek									
19 Sep 2023	Midweek					4				
20 Sep 2023	Midweek									
21 Sep 2023	Midweek									
22 Sep 2023	Midweek									
23 Sep 2023	Weekend	5								
24 Sep 2023	Weekend						10			
25 Sep 2023	Midweek									
26 Sep 2023	Midweek									
27 Sep 2023	Midweek									
28 Sep 2023	Midweek	10								
29 Sep 2023	Midweek									
30 Sep 2023	Weekend									
01 Oct 2023	Weekend									
02 Oct 2023	Midweek									
03 Oct 2023	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
29-Aug-2023	Tuesday	choppy	3	1	2					
30-Aug-2023	Wednesday	calm/rippled	14	13	9			46	1133	84
31-Aug-2023	Thursday	choppy	2							
01-Sep-2023	Friday	frequent whitecaps	5	8	4			13	1133	23
02-Sep-2023	Saturday	calm/rippled	19	1	2					
03-Sep-2023	Sunday	calm/rippled	11	8	1					
04-Sep-2023	Monday (Labour Day)	calm/rippled	9	2	1			72	1118	149
05-Sep-2023	Tuesday	choppy	19	10	4					
06-Sep-2023	Wednesday	calm/rippled	9	6	4					
07-Sep-2023	Thursday		1	4				20	1038	51
08-Sep-2023	Friday		0							
09-Sep-2023	Saturday		1	5				71	1145	148
10-Sep-2023	Sunday		3	8	1					
11-Sep-2023	Monday	calm/rippled	3	4	1					
12-Sep-2023	Tuesday		0							
13-Sep-2023	Wednesday	calm/rippled	6	4	6					
14-Sep-2023	Thursday		3	6	1					
15-Sep-2023	Friday	choppy	19	2	11			46	1130	83
16-Sep-2023	Saturday	calm/rippled	17	10	11			88	1111	184
17-Sep-2023	Sunday	choppy	3	6						
18-Sep-2023	Monday		0							
19-Sep-2023	Tuesday	calm/rippled	4							
20-Sep-2023	Wednesday		0							
21-Sep-2023	Thursday		0							
22-Sep-2023	Friday		0							
23-Sep-2023	Saturday	frequent whitecaps	5							
24-Sep-2023	Sunday	choppy	10					11	1229	22
25-Sep-2023	Monday		0							
26-Sep-2023	Tuesday		0							
27-Sep-2023	Wednesday		0							
28-Sep-2023	Thursday	choppy	13	2	2			20	1128	36
29-Sep-2023	Friday		0							
30-Sep-2023	Saturday		0							
01-Oct-2023	Sunday		0					10	1135	20
02-Oct-2023	Monday		0							
03-Oct-2023	Tuesday		0							
	Totals	choppy	82	46	33			25*		48*
	Totals	choppy	78	40	16			61*		126*

* 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	48	20	960	0.561	0.402			539	386		
Weekend	126	10	1260	0.513	0.205			646	258		

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2018	September	795	160	23	0	
2019	September	1033	406	121		0
2020	September	1668	243	71		0
2021	September	1163	280	8		
2022	September	2135	564	150		0
2023	September	2121	462	740		0
5-Yr Avg	September	1359	331	75	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
Coho	567	77%	9%	543	78%	9%	51
Chinook	101	22%	38%	392	47%	10%	38

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	159	4%
iRec Anglers	3373	11%

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

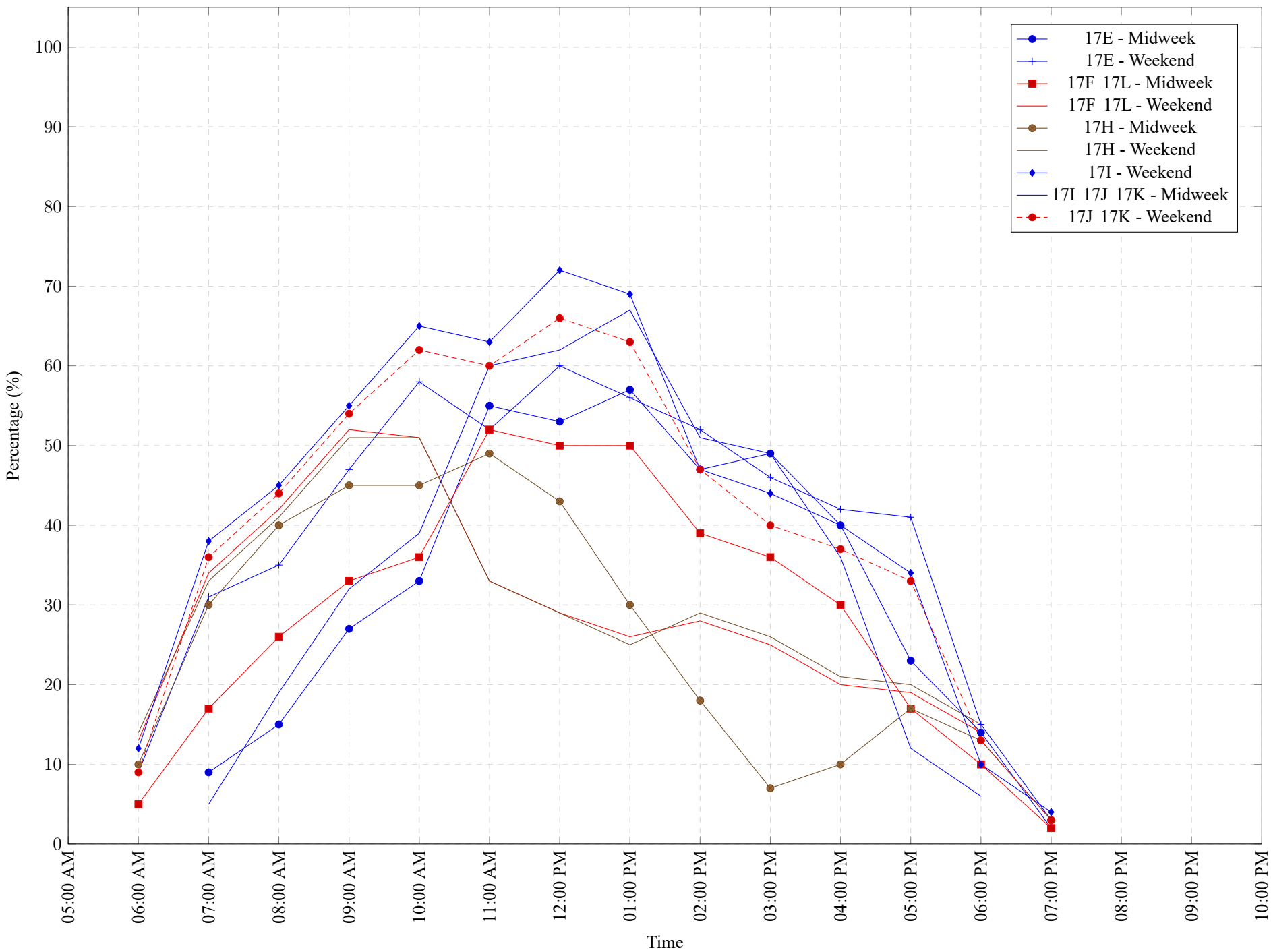


Table 7: Proportion of each day's fishing by hour.

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
17E	Midweek	0%	9%	15%	27%	33%	55%	53%	57%	47%	49%	40%	23%	14%	2%	0%	0%	0%
17E	Weekend	9%	31%	35%	47%	58%	52%	60%	56%	52%	46%	42%	41%	15%	3%	0%	0%	0%
17F 17L	Midweek	5%	17%	26%	33%	36%	52%	50%	50%	39%	36%	30%	17%	10%	2%	0%	0%	0%
17F 17L	Weekend	13%	34%	42%	52%	51%	33%	29%	26%	28%	25%	20%	19%	14%	0%	0%	0%	0%
17H	Midweek	10%	30%	40%	45%	45%	49%	43%	30%	18%	7%	10%	17%	13%	3%	0%	0%	0%
17H	Weekend	14%	33%	41%	51%	51%	33%	29%	25%	29%	26%	21%	20%	15%	0%	0%	0%	0%
17I	Weekend	12%	38%	45%	55%	65%	63%	72%	69%	47%	44%	40%	34%	10%	4%	0%	0%	0%
17I 17J 17K	Midweek	0%	5%	19%	32%	39%	60%	62%	67%	51%	49%	36%	12%	6%	0%	0%	0%	0%
17J 17K	Weekend	9%	36%	44%	54%	62%	60%	66%	63%	47%	40%	37%	33%	13%	3%	0%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	Brechin	Cooper's Green	Cowichan Bay	Crofton Ramp	Ladysmith	Schooner
29 Aug 2023	Midweek	calm/rippled			choppy	choppy	
30 Aug 2023	Midweek						
31 Aug 2023	Midweek						
01 Sep 2023	Midweek						
02 Sep 2023	Weekend	choppy	choppy		calm/rippled	choppy	frequent whitecaps
03 Sep 2023	Weekend						
04 Sep 2023	Weekend						
05 Sep 2023	Midweek						
06 Sep 2023	Midweek				calm/rippled		calm/rippled
07 Sep 2023	Midweek						
08 Sep 2023	Midweek						
09 Sep 2023	Weekend						
10 Sep 2023	Weekend						calm/rippled
11 Sep 2023	Midweek						
12 Sep 2023	Midweek						
13 Sep 2023	Midweek						
14 Sep 2023	Midweek	choppy					calm/rippled frequent whitecaps
15 Sep 2023	Midweek						
16 Sep 2023	Weekend						
17 Sep 2023	Weekend						
18 Sep 2023	Midweek				calm/rippled		
19 Sep 2023	Midweek						
20 Sep 2023	Midweek						
21 Sep 2023	Midweek						
22 Sep 2023	Midweek	frequent whitecaps			choppy		
23 Sep 2023	Weekend						
24 Sep 2023	Weekend						
25 Sep 2023	Midweek						
26 Sep 2023	Midweek	choppy					
27 Sep 2023	Midweek						
28 Sep 2023	Midweek						
29 Sep 2023	Midweek						
30 Sep 2023	Weekend						
01 Oct 2023	Weekend						
02 Oct 2023	Midweek						
03 Oct 2023	Midweek						