

FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 13 August 2022



Prepared By:
South Coast Salmon Stock Assessment Section

Thursday 19th January, 2023



Fisheries and Oceans
Canada

Pêches et Océans
Canada

**your
catch
counts**

The logo for 'Your Catch Counts' features the text 'your catch counts' in a bold, blue, sans-serif font. The word 'your' is stacked above 'catch', which is stacked above 'counts'. To the right of the word 'catch' is a stylized blue icon of a person holding a fishing rod, with a fish on the line.

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

Date	Day Type	Big Rock Boat Rental		Brown's Bay		Discovery Marina South		Pacific Play	
		AM	PM	AM	PM	AM	PM	AM	PM
29 Jul 2022	Midweek				7	14			
30 Jul 2022	Weekend						13		
31 Jul 2022	Weekend		29						
01 Aug 2022	Weekend								
02 Aug 2022	Midweek	24							
03 Aug 2022	Midweek								
04 Aug 2022	Midweek		20						
05 Aug 2022	Midweek			9					
06 Aug 2022	Weekend								
07 Aug 2022	Weekend						12		10
08 Aug 2022	Midweek								1
09 Aug 2022	Midweek				7		15		
10 Aug 2022	Midweek								
11 Aug 2022	Midweek		37						6
12 Aug 2022	Midweek	18			17		12		
13 Aug 2022	Weekend	16							
14 Aug 2022	Weekend		29	9					
15 Aug 2022	Midweek	25						3	
16 Aug 2022	Midweek			10					
17 Aug 2022	Midweek					16		4	
18 Aug 2022	Midweek								
19 Aug 2022	Midweek			14			11		
20 Aug 2022	Weekend				18				
21 Aug 2022	Weekend								6
22 Aug 2022	Midweek					16			
23 Aug 2022	Midweek	13							
24 Aug 2022	Midweek								
25 Aug 2022	Midweek								
26 Aug 2022	Midweek					11			
27 Aug 2022	Weekend			4				1	
28 Aug 2022	Weekend					14			
29 Aug 2022	Midweek								
30 Aug 2022	Midweek				15				
31 Aug 2022	Midweek								
01 Sep 2022	Midweek		16						
02 Sep 2022	Midweek							4	
03 Sep 2022	Weekend						9		

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	39	44						
30-Jul-2022	Saturday	choppy	24	26				167	0958	385
31-Jul-2022	Sunday	frequent whitecaps	46	35						
01-Aug-2022	Monday (B.C. Day)		8	5				133	0956	307
02-Aug-2022	Tuesday	calm/rippled	36	33				57	0918	166
03-Aug-2022	Wednesday		10	4						
04-Aug-2022	Thursday	choppy	30	28						
05-Aug-2022	Friday	choppy	24	22	2	1				
06-Aug-2022	Saturday		18	13						
07-Aug-2022	Sunday	choppy	39	45				128	0954	296
08-Aug-2022	Monday	calm/rippled	18	16	1					
09-Aug-2022	Tuesday	calm/rippled	35	47	1					
10-Aug-2022	Wednesday		18	8	1					
11-Aug-2022	Thursday	choppy	56	45	2		1	100	1015	281
12-Aug-2022	Friday	calm/rippled	61	58	5					
13-Aug-2022	Saturday	choppy	27	19	3			82	1141	197
14-Aug-2022	Sunday	calm/rippled	49	25	3					
15-Aug-2022	Monday	calm/rippled	36	31	1					
16-Aug-2022	Tuesday	calm/rippled	13	11	2	3				
17-Aug-2022	Wednesday	choppy	27	41	3					
18-Aug-2022	Thursday		5	4	2			121	0956	342
19-Aug-2022	Friday	calm/rippled	36	31	2					
20-Aug-2022	Saturday	calm/rippled	26	11	5					
21-Aug-2022	Sunday	choppy	14	12	5			135	0952	313
22-Aug-2022	Monday	calm/rippled	22	29	3			125	0949	366
23-Aug-2022	Tuesday	choppy	17	17	2					
24-Aug-2022	Wednesday		6	10						
25-Aug-2022	Thursday		7	2	2					
26-Aug-2022	Friday	choppy	22	19	3					
27-Aug-2022	Saturday	frequent whitecaps	19	14	4			91	1009	209
28-Aug-2022	Sunday	choppy	23	28	4					
29-Aug-2022	Monday		9	5	2			102	0957	285
30-Aug-2022	Tuesday	calm/rippled	23	11	4	1				
31-Aug-2022	Wednesday		13	10						
01-Sep-2022	Thursday	calm/rippled	32	43	21			122	1005	342
02-Sep-2022	Friday	calm/rippled	17	14	16					
03-Sep-2022	Saturday	frequent whitecaps	26	37	34			137	0941	334
	Totals	calm/rippled	524	482	38	5	1	101*		288*
	Totals	choppy	223	172	24			114*		264*

* 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
Weekend	264	9	2376	0.771	0.108			1832	257		
Midweek	288	22	6336	0.92	0.073	0.01	0.002	5829	463	63	13

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2017	August	8816	9319	1302	71	
2018	August	11229	9018	1212	1708	
2019	August	7869	9527	263	0	0
2020	August	7451	7067	69	0	19
2021	August	9898	7460	227	22	30
2022	August	8966	8724	508	46	19
5-Yr Avg	August	9053	8478	615	360	16

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	267	53%	11%	212	61%	14%	29
Chinook	393	5%	30%	952	15%	13%	119

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	737	14%
iRec Anglers	18837	22%

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

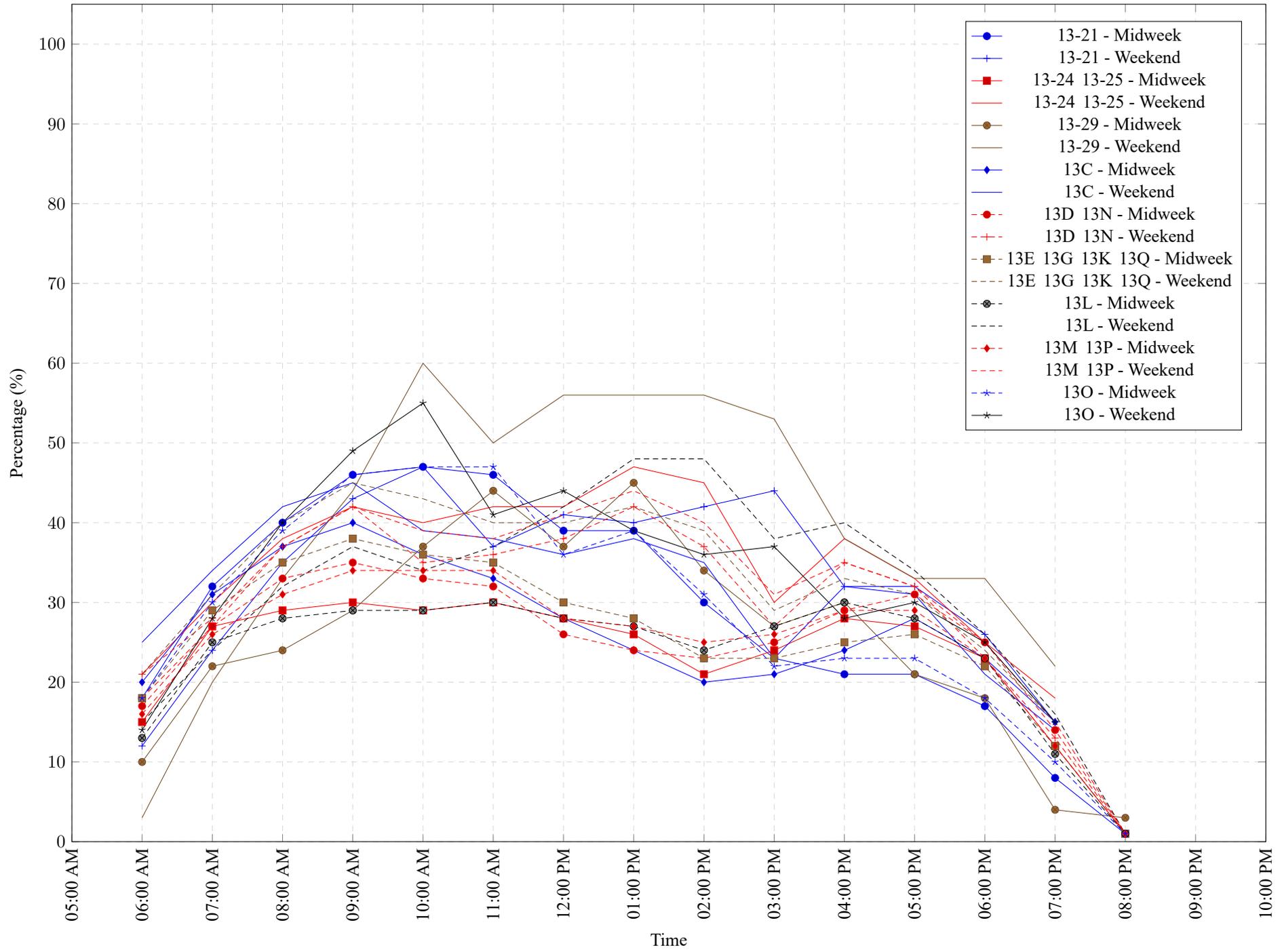


Table 7: Proportion of each day's fishing by hour.

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										
13-21	Midweek	18%	32%	40%	46%	47%	46%	39%	39%	30%	23%	21%	21%	17%	8%	1%	0%	0%
13-21	Weekend	12%	24%	35%	43%	47%	37%	41%	40%	42%	44%	32%	32%	26%	15%	0%	0%	0%
13-24 13-25	Midweek	15%	27%	29%	30%	29%	30%	28%	26%	21%	24%	28%	27%	23%	12%	1%	0%	0%
13-24 13-25	Weekend	21%	30%	38%	42%	40%	42%	42%	47%	45%	30%	38%	33%	25%	18%	0%	0%	0%
13-29	Midweek	10%	22%	24%	29%	37%	44%	37%	45%	34%	27%	30%	21%	18%	4%	3%	0%	0%
13-29	Weekend	3%	20%	33%	44%	60%	50%	56%	56%	56%	53%	38%	33%	33%	22%	0%	0%	0%
13C	Midweek	20%	31%	37%	40%	36%	33%	28%	24%	20%	21%	24%	28%	23%	15%	0%	0%	0%
13C	Weekend	25%	34%	42%	45%	39%	38%	36%	38%	35%	23%	32%	31%	21%	14%	0%	0%	0%
13D 13N	Midweek	17%	27%	33%	35%	33%	32%	26%	24%	23%	25%	29%	31%	25%	14%	1%	0%	0%
13D 13N	Weekend	21%	28%	37%	42%	35%	36%	38%	42%	37%	27%	35%	32%	23%	13%	1%	0%	0%
13E 13G 13K 13Q	Midweek	18%	29%	35%	38%	36%	35%	30%	28%	23%	23%	25%	26%	22%	12%	1%	0%	0%
13E 13G 13K 13Q	Weekend	21%	31%	40%	45%	43%	40%	40%	42%	39%	29%	33%	31%	24%	15%	0%	0%	0%
13L	Midweek	13%	25%	28%	29%	29%	30%	28%	27%	24%	27%	30%	28%	23%	11%	1%	0%	0%
13L	Weekend	15%	24%	32%	37%	34%	37%	42%	48%	48%	38%	40%	34%	26%	16%	1%	0%	0%
13M 13P	Midweek	16%	26%	31%	34%	34%	34%	28%	27%	25%	26%	29%	29%	23%	12%	1%	0%	0%
13M 13P	Weekend	18%	27%	37%	42%	39%	38%	41%	44%	40%	31%	35%	32%	25%	15%	1%	0%	0%
13O	Midweek	18%	30%	39%	46%	47%	47%	36%	39%	31%	22%	23%	23%	18%	10%	1%	0%	0%
13O	Weekend	14%	28%	40%	49%	55%	41%	44%	39%	36%	37%	28%	30%	25%	15%	0%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	Big Rock Boat Rental	Brown's Bay	Discovery Marina South	Pacific Play
29 Jul 2022	Midweek		calm/rippled	choppy	
30 Jul 2022	Weekend			choppy	
31 Jul 2022	Weekend	frequent whitecaps			
01 Aug 2022	Weekend				
02 Aug 2022	Midweek	calm/rippled			
03 Aug 2022	Midweek				
04 Aug 2022	Midweek	choppy			
05 Aug 2022	Midweek		choppy		
06 Aug 2022	Weekend				
07 Aug 2022	Weekend			choppy	calm/rippled
08 Aug 2022	Midweek				calm/rippled
09 Aug 2022	Midweek		calm/rippled	calm/rippled	
10 Aug 2022	Midweek				
11 Aug 2022	Midweek	choppy			calm/rippled
12 Aug 2022	Midweek	calm/rippled	calm/rippled	calm/rippled	
13 Aug 2022	Weekend	choppy			
14 Aug 2022	Weekend	calm/rippled	calm/rippled		
15 Aug 2022	Midweek	calm/rippled			calm/rippled
16 Aug 2022	Midweek		calm/rippled		
17 Aug 2022	Midweek			choppy	calm/rippled
18 Aug 2022	Midweek				
19 Aug 2022	Midweek		choppy	calm/rippled	
20 Aug 2022	Weekend		calm/rippled		
21 Aug 2022	Weekend				choppy
22 Aug 2022	Midweek			calm/rippled	
23 Aug 2022	Midweek	choppy			
24 Aug 2022	Midweek				
25 Aug 2022	Midweek				
26 Aug 2022	Midweek			choppy	
27 Aug 2022	Weekend		frequent whitecaps		frequent whitecaps
28 Aug 2022	Weekend			choppy	
29 Aug 2022	Midweek				
30 Aug 2022	Midweek		calm/rippled		
31 Aug 2022	Midweek				
01 Sep 2022	Midweek	calm/rippled			
02 Sep 2022	Midweek				calm/rippled
03 Sep 2022	Weekend			frequent whitecaps	