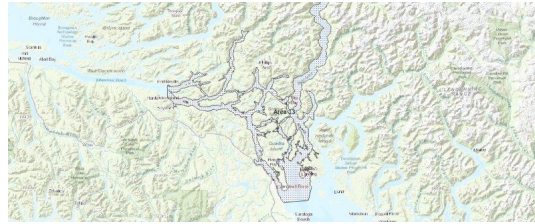


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 13 July 2021



Prepared By:
South Coast Salmon Stock Assessment Section

Thursday 10th February, 2022



Fisheries and Oceans
Canada

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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		Comox Mun	Discovery Marina South			Pacific Play		Painter's	Schooner	Westview
		AM	PM	AM	PM	PM	AM	MD	PM	AM	PM	MD	PM	PM
28 Jun 2021	Midweek													
29 Jun 2021	Midweek							2						
30 Jun 2021	Midweek			3					3					
01 Jul 2021	Weekend											1		
02 Jul 2021	Midweek	7							3					
03 Jul 2021	Weekend					1								
04 Jul 2021	Weekend							5						
05 Jul 2021	Midweek													
06 Jul 2021	Midweek							4				1		
07 Jul 2021	Midweek													
08 Jul 2021	Midweek						3							
09 Jul 2021	Midweek											4		
10 Jul 2021	Weekend				1		7					2		
11 Jul 2021	Weekend								9		3			
12 Jul 2021	Midweek													
13 Jul 2021	Midweek													
14 Jul 2021	Midweek		8								1			
15 Jul 2021	Midweek			4								4		
16 Jul 2021	Midweek						12			1				
17 Jul 2021	Weekend	20							23			1		
18 Jul 2021	Weekend		41											
19 Jul 2021	Midweek											1		
20 Jul 2021	Midweek				2									
21 Jul 2021	Midweek		15	3						10				
22 Jul 2021	Midweek										5			
23 Jul 2021	Midweek						12							
24 Jul 2021	Weekend								15					
25 Jul 2021	Weekend		36											
26 Jul 2021	Midweek				6									
27 Jul 2021	Midweek													
28 Jul 2021	Midweek		21						16					
29 Jul 2021	Midweek	30			2				17			4		
30 Jul 2021	Midweek										2			1
31 Jul 2021	Weekend				14					3				
01 Aug 2021	Weekend				9				28			2	1	
02 Aug 2021	Weekend								17					
03 Aug 2021	Midweek		26											

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-2021	Monday		13	14				29	1058	84
29-Jun-2021	Tuesday	calm/rippled	12	16						
30-Jun-2021	Wednesday	choppy	14	6						
01-Jul-2021	Thursday (Canada Day)	choppy	8	7						
02-Jul-2021	Friday	choppy	16	3				42	1008	126
03-Jul-2021	Saturday	choppy	12	8				45	1008	143
04-Jul-2021	Sunday	choppy	21	9				58	1006	181
05-Jul-2021	Monday		13	6						
06-Jul-2021	Tuesday	calm/rippled	15	9				38	1054	114
07-Jul-2021	Wednesday		13	7						
08-Jul-2021	Thursday	choppy	9	2				44	1008	132
09-Jul-2021	Friday	calm/rippled	13	3						
10-Jul-2021	Saturday	choppy	19	4						
11-Jul-2021	Sunday	choppy	19	5				62	1006	198
12-Jul-2021	Monday		7	2						
13-Jul-2021	Tuesday		6	2						
14-Jul-2021	Wednesday	calm/rippled	17	12						
15-Jul-2021	Thursday	choppy	19	26			1	282	1007	843
16-Jul-2021	Friday	choppy	23	30						
17-Jul-2021	Saturday	choppy	56	123	1			213	0943	682
18-Jul-2021	Sunday	calm/rippled	49	64	1			334	1004	1043
19-Jul-2021	Monday	choppy	10	12						
20-Jul-2021	Tuesday	choppy	11	12						
21-Jul-2021	Wednesday	choppy	43	59	1			197	0953	589
22-Jul-2021	Thursday	choppy	12	20	1					
23-Jul-2021	Friday	calm/rippled	18	25						
24-Jul-2021	Saturday	calm/rippled	26	23						
25-Jul-2021	Sunday	calm/rippled	48	51				217	0958	681
26-Jul-2021	Monday	choppy	14	8						
27-Jul-2021	Tuesday	calm/rippled	25	39						
28-Jul-2021	Wednesday	calm/rippled	52	65				224	1014	671
29-Jul-2021	Thursday	calm/rippled	40	27	1		1			
30-Jul-2021	Friday	calm/rippled	11	11						
31-Jul-2021	Saturday	choppy	27	15						
01-Aug-2021	Sunday	calm/rippled	56	73						
02-Aug-2021	Monday (B.C. Day)	choppy	23	31	1			226	1006	706
03-Aug-2021	Tuesday	calm/rippled	33	54	1					
	Totals	choppy	387	380	3		2	138*		413*
	Totals	choppy	285	309	2			155*		488*

* 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	488	10	4880	1.084	0.007			5290	34		
Midweek	413	21	8673	0.982	0.008		0.005	8517	69		43

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

Year	Month	Total Effort	Chinook Kept	Coho Kept	Sockeye Kept	Halibut Kept
2016	July	6733	4911	1470		2
2017	July	8000	6111	408		
2018	July	9363	7890	2383		
2019	July	6784	6024	293		0
2020	July	4939	4687	112	0	1
2021	July	8465	9382	83	0	49
5-Yr Avg	July	7164	5925	933	0	1

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	83	100%	7%	136	67%	4%	6
Chinook	1355	16%	12%	1058	16%	16%	166

Table 6: Guided Proprtions Review.

Data Source	Interviews / Angler Days	Guided Proportion
Creel Interivews	649	17%
iRec Anglers	12846	28%

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

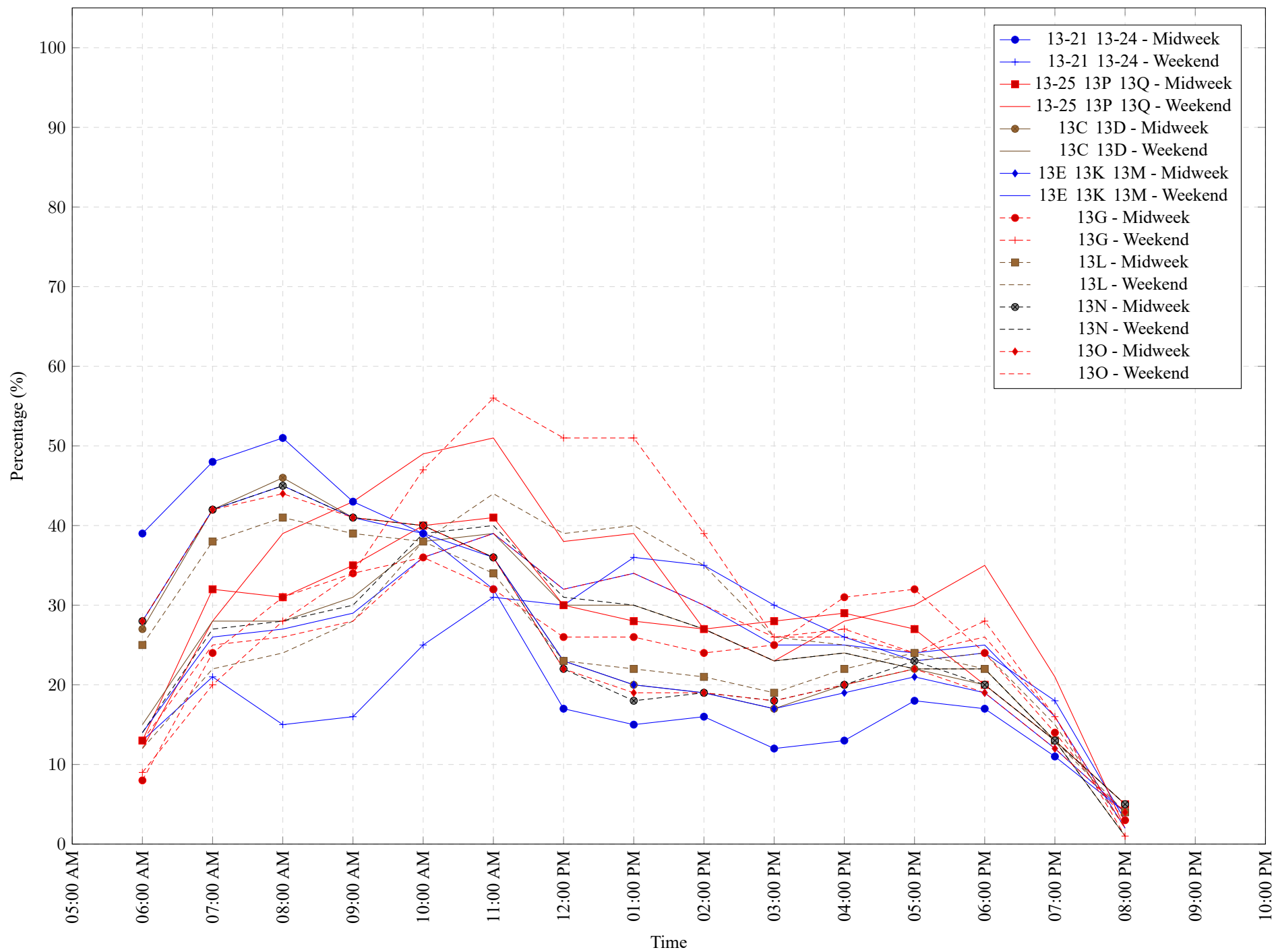


Table 7: Proportion of each day's fishing by hour.

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
13-21	13-24	Midweek	39%	48%	51%	43%	39%	32%	17%	15%	16%	12%	13%	18%	17%	11%	4%	0%	0%
13-21	13-24	Weekend	13%	21%	15%	16%	25%	31%	30%	36%	35%	30%	26%	23%	24%	18%	3%	0%	0%
13-25	13P 13Q	Midweek	13%	32%	31%	35%	40%	41%	30%	28%	27%	28%	29%	27%	20%	13%	5%	0%	0%
13-25	13P 13Q	Weekend	12%	28%	39%	43%	49%	51%	38%	39%	27%	23%	28%	30%	35%	21%	2%	0%	0%
13C	13D	Midweek	27%	42%	46%	41%	40%	36%	23%	20%	19%	17%	20%	22%	20%	13%	5%	0%	0%
13C	13D	Weekend	15%	28%	28%	31%	38%	39%	30%	30%	27%	23%	24%	22%	22%	13%	1%	0%	0%
13E 13K 13M		Midweek	28%	42%	45%	41%	39%	36%	23%	20%	19%	17%	19%	21%	19%	12%	4%	0%	0%
13E 13K 13M		Weekend	14%	26%	27%	29%	36%	39%	32%	34%	30%	25%	25%	24%	25%	16%	2%	0%	0%
13G		Midweek	8%	24%	31%	34%	36%	32%	26%	26%	24%	25%	31%	32%	24%	14%	3%	0%	0%
13G		Weekend	9%	20%	28%	34%	47%	56%	51%	51%	39%	26%	27%	24%	28%	16%	1%	0%	0%
13L		Midweek	25%	38%	41%	39%	38%	34%	23%	22%	21%	19%	22%	24%	22%	13%	4%	0%	0%
13L		Weekend	12%	22%	24%	28%	38%	44%	39%	40%	35%	26%	25%	23%	24%	15%	2%	0%	0%
13N		Midweek	28%	42%	45%	41%	40%	36%	22%	18%	19%	18%	20%	23%	20%	13%	5%	0%	0%
13N		Weekend	14%	27%	28%	30%	39%	40%	31%	30%	27%	23%	24%	22%	22%	13%	1%	0%	0%
13O		Midweek	28%	42%	44%	41%	40%	36%	22%	19%	19%	18%	20%	22%	19%	12%	4%	0%	0%
13O		Weekend	13%	25%	26%	28%	36%	39%	32%	34%	30%	26%	26%	24%	26%	16%	2%	0%	0%

Table 8: Daily Fishing Conditions.

Date	Day Type	Big Rock Boat Rental	Brown's Bay	Comox Mun	Discovery Marina South	Pacific Play	Painter's	Schooner	Westview
28 Jun 2021	Midweek								
29 Jun 2021	Midweek				calm/rippled				
30 Jun 2021	Midweek		calm/rippled		choppy				
01 Jul 2021	Weekend						choppy		
02 Jul 2021	Midweek	choppy			frequent whitecaps				
03 Jul 2021	Weekend			choppy					
04 Jul 2021	Weekend				choppy				
05 Jul 2021	Midweek								
06 Jul 2021	Midweek				calm/rippled		choppy		
07 Jul 2021	Midweek								
08 Jul 2021	Midweek				choppy				
09 Jul 2021	Midweek						calm/rippled		
10 Jul 2021	Weekend		choppy		choppy		calm/rippled		
11 Jul 2021	Weekend				choppy	calm/rippled			
12 Jul 2021	Midweek								
13 Jul 2021	Midweek								
14 Jul 2021	Midweek	calm/rippled				choppy			
15 Jul 2021	Midweek		choppy				choppy		
16 Jul 2021	Midweek				choppy	frequent whitecaps			
17 Jul 2021	Weekend	frequent whitecaps			choppy		choppy		
18 Jul 2021	Weekend	calm/rippled							
19 Jul 2021	Midweek						choppy		
20 Jul 2021	Midweek		choppy						
21 Jul 2021	Midweek	calm/rippled	calm/rippled			choppy			
22 Jul 2021	Midweek					choppy			
23 Jul 2021	Midweek				calm/rippled				
24 Jul 2021	Weekend				calm/rippled				
25 Jul 2021	Weekend	calm/rippled							
26 Jul 2021	Midweek		choppy						
27 Jul 2021	Midweek				calm/rippled				
28 Jul 2021	Midweek	calm/rippled			choppy		calm/rippled		
29 Jul 2021	Midweek	calm/rippled	calm/rippled						choppy
30 Jul 2021	Midweek					calm/rippled			
31 Jul 2021	Weekend		calm/rippled			choppy			
01 Aug 2021	Weekend		frequent whitecaps		calm/rippled		choppy	choppy	
02 Aug 2021	Weekend				choppy				
03 Aug 2021	Midweek	calm/rippled							