

FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 29 July 2023



Prepared By:
South Coast Salmon Stock Assessment Section

Friday 9th February, 2024



Fisheries and Oceans
Canada

Pêches et Océans
Canada



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

| | | Crofton Ramp | | Gibson's Marina | | Lady-smith | McDonald Beach | | Planetarium | | Porteau Cove | Sewell's East | | Thunderbird Marina | |
|-------------|----------|--------------|----|-----------------|----|------------|----------------|----|-------------|----|--------------|---------------|----|--------------------|----|
| Date | Day Type | AM | PM | AM | PM | AM | AM | PM | AM | PM | AM | AM | PM | AM | PM |
| 28 Jun 2023 | Midweek | | | | | | | | | | | | | | |
| 29 Jun 2023 | Midweek | | | | | | | 3 | | | | | | | |
| 30 Jun 2023 | Midweek | | | | | | | | | | | | | | |
| 01 Jul 2023 | Weekend | | | | | | | | | | | 3 | | | |
| 02 Jul 2023 | Weekend | | | | | | | | | | | | | | |
| 03 Jul 2023 | Weekend | | | | | | | | | | | | | | |
| 04 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 05 Jul 2023 | Midweek | | | | | | | 5 | | | | | | | |
| 06 Jul 2023 | Midweek | | | | | | | 4 | | | | | | | |
| 07 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 08 Jul 2023 | Weekend | | | | 1 | | | | 2 | | | | | | |
| 09 Jul 2023 | Weekend | | | | | | | | | | | | | | |
| 10 Jul 2023 | Midweek | | 1 | | | | | | | | | | | | |
| 11 Jul 2023 | Midweek | | | | | | | 5 | | | | | | | |
| 12 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 13 Jul 2023 | Midweek | | | | | | | | 2 | | | | | | |
| 14 Jul 2023 | Midweek | | | | | | | | | | | | | 2 | |
| 15 Jul 2023 | Weekend | | | | | 2 | | | | | 1 | | | | |
| 16 Jul 2023 | Weekend | | | | 12 | | | | | | | | | 5 | |
| 17 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 18 Jul 2023 | Midweek | | | | | | | | | 4 | | | | | |
| 19 Jul 2023 | Midweek | | | | 5 | | | | | | | | 1 | | |
| 20 Jul 2023 | Midweek | | | | | | | | | | | | | | 4 |
| 21 Jul 2023 | Midweek | | | | | | 1 | | | | | | | | |
| 22 Jul 2023 | Weekend | 1 | | 4 | | | 4 | | | | | | | | |
| 23 Jul 2023 | Weekend | | | | | 1 | | | 4 | | | | | | |
| 24 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 25 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 26 Jul 2023 | Midweek | | | | 5 | | | | | | | | | | |
| 27 Jul 2023 | Midweek | | | | | | | | | | | 2 | | | |
| 28 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 29 Jul 2023 | Weekend | | | | | | | 3 | | | | | | | |
| 30 Jul 2023 | Weekend | | | | | | | | | | | | | | |
| 31 Jul 2023 | Midweek | | | | | | | | | | | | | | |
| 01 Aug 2023 | Midweek | | | | | | | | | | | | 4 | | |
| 02 Aug 2023 | Midweek | | | | | | | | | | 1 | | | | |
| 03 Aug 2023 | Midweek | | | 6 | | | | | | | | | | | |

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-2023 | Wednesday | | 0 | | | | | | | |
| 29-Jun-2023 | Thursday | choppy | 4 | 1 | 4 | | | | | |
| 30-Jun-2023 | Friday | | 1 | | 4 | | | 32 | 1145 | 75 |
| 01-Jul-2023 | Saturday | | 2 | | 8 | | | 43 | 1223 | 102 |
| 02-Jul-2023 | Sunday | large swells | 3 | | | | | 6 | 1155 | 10 |
| 03-Jul-2023 | Monday (Canada Day) | | 0 | | | | | | | |
| 04-Jul-2023 | Tuesday | | 4 | | 8 | | | 6 | 1238 | 17 |
| 05-Jul-2023 | Wednesday | | 1 | | 2 | | | | | |
| 06-Jul-2023 | Thursday | choppy | 6 | | 17 | | | | | |
| 07-Jul-2023 | Friday | choppy | 6 | | 6 | | | | | |
| 08-Jul-2023 | Saturday | choppy | 5 | | 11 | | | 15 | 1257 | 37 |
| 09-Jul-2023 | Sunday | | 4 | | 2 | | | | | |
| 10-Jul-2023 | Monday | frequent whitecaps | 1 | | | | | 3 | 1250 | 9 |
| 11-Jul-2023 | Tuesday | choppy | 9 | | 17 | | | | | |
| 12-Jul-2023 | Wednesday | | 5 | | 15 | | | | | |
| 13-Jul-2023 | Thursday | choppy | 8 | | 19 | | | | | |
| 14-Jul-2023 | Friday | calm/rippled | 4 | 1 | 5 | | | 87 | 1147 | 205 |
| 15-Jul-2023 | Saturday | calm/rippled | 9 | 5 | 10 | | | 185 | 1201 | 331 |
| 16-Jul-2023 | Sunday | choppy | 21 | 7 | 48 | | | | | |
| 17-Jul-2023 | Monday | | 1 | | 1 | | | | | |
| 18-Jul-2023 | Tuesday | choppy | 4 | 1 | 5 | | | | | |
| 19-Jul-2023 | Wednesday | choppy | 9 | | 9 | 1 | | 34 | 1221 | 92 |
| 20-Jul-2023 | Thursday | calm/rippled | 11 | 2 | 17 | | | | | |
| 21-Jul-2023 | Friday | large swells | 4 | 1 | 14 | | | | | |
| 22-Jul-2023 | Saturday | frequent whitecaps | 14 | 2 | 32 | | | 25 | 1249 | 66 |
| 23-Jul-2023 | Sunday | choppy | 9 | 2 | 18 | | | | | |
| 24-Jul-2023 | Monday | | 2 | | 1 | | | 5 | 1234 | 14 |
| 25-Jul-2023 | Tuesday | | 0 | | | | | | | |
| 26-Jul-2023 | Wednesday | choppy | 7 | | 10 | | | | | |
| 27-Jul-2023 | Thursday | choppy | 5 | | 4 | | | | | |
| 28-Jul-2023 | Friday | | 6 | | 8 | | | | | |
| 29-Jul-2023 | Saturday | choppy | 3 | | 2 | | | | | |
| 30-Jul-2023 | Sunday | | 0 | | | | | | | |
| 31-Jul-2023 | Monday | | 1 | | 2 | | | | | |
| 01-Aug-2023 | Tuesday | calm/rippled | 6 | | 4 | | | | | |
| 02-Aug-2023 | Wednesday | calm/rippled | 3 | | 2 | | | 48 | 1153 | 112 |
| 03-Aug-2023 | Thursday | choppy | 6 | 2 | 4 | | | | | |
| | Totals | choppy | 94 | 5 | 160 | 1 | | 27* | | 67* |
| | Totals | choppy | 70 | 16 | 131 | | | 55* | | 109* |

* 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 | 67 | 20 | 1340 | 0.053 | 1.702 | 0.011 | | 71 | 2281 | 15 | |
| Weekend | 109 | 11 | 1199 | 0.229 | 1.871 | | | 275 | 2243 | | |

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

| Year | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-------|--------------|--------------|-----------|--------------|--------------|
| 2018 | July | 1972 | 247 | 355 | | |
| 2019 | July | 1744 | 242 | 190 | | 0 |
| 2020 | July | 1864 | 128 | 433 | | 0 |
| 2021 | July | 1416 | 247 | 157 | 0 | 0 |
| 2022 | July | 1338 | 460 | 13 | | 0 |
| 2023 | July | 2845 | 271 | 4839 | 36 | 0 |
| 5-Yr Avg | July | 1667 | 265 | 230 | 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 | 4696 | 97% | 1% | 4395 | 95% | 1% | 64 |
| Chinook | 4 | 1% | 50% | 257 | 40% | 1% | 2 |

Table 6: Guided Proprtions Review.

| Data Source | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 164 | 13% |
| iRec Anglers | 5451 | 14% |

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

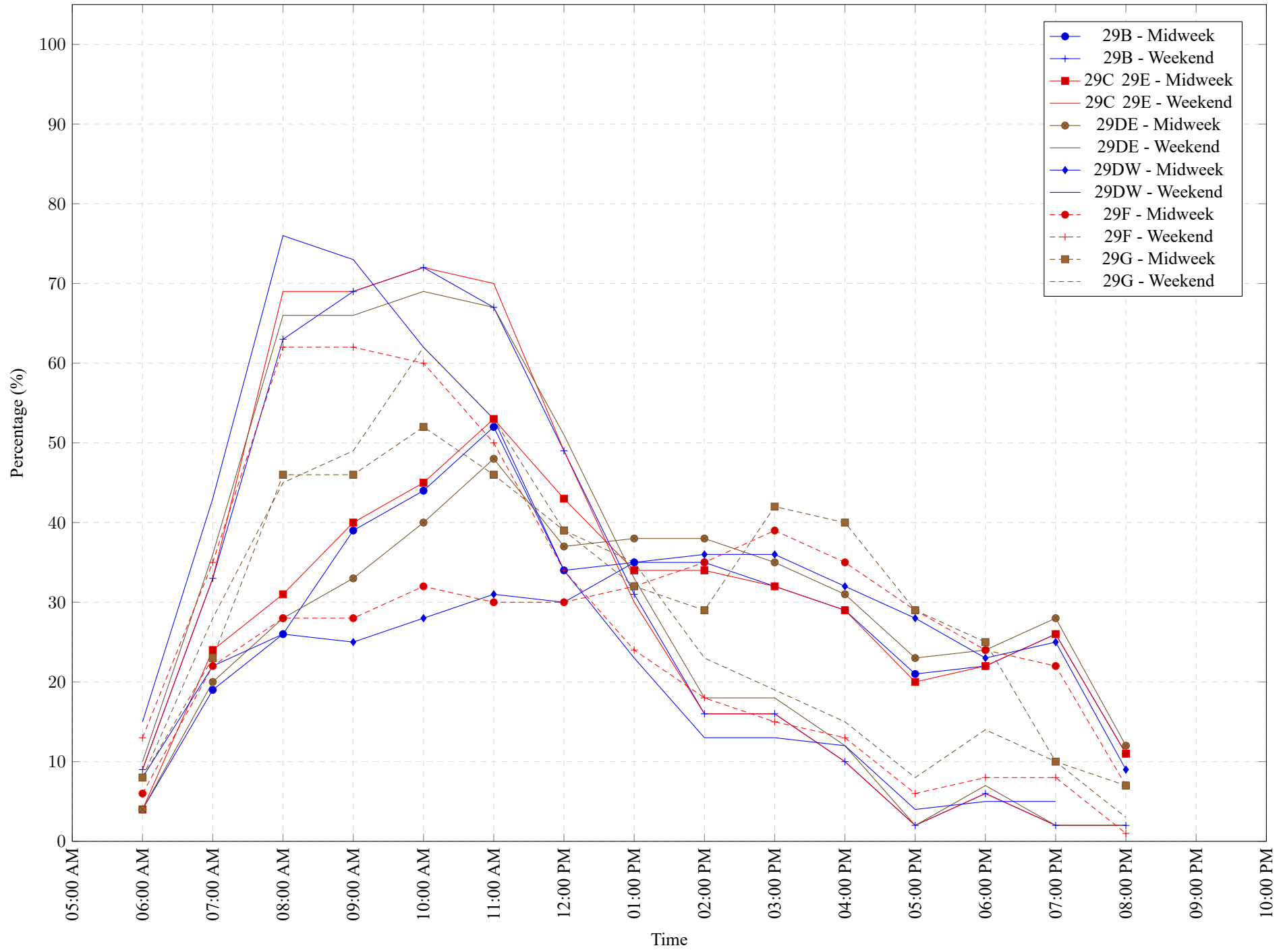


Table 7: Proportion of each day's fishing by hour.

| 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 |
|---------|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 29B | Midweek | 4% | 19% | 26% | 39% | 44% | 52% | 34% | 35% | 35% | 32% | 29% | 21% | 22% | 26% | 11% | 0% | 0% |
| 29B | Weekend | 9% | 33% | 63% | 69% | 72% | 67% | 49% | 31% | 16% | 16% | 10% | 2% | 6% | 2% | 2% | 0% | 0% |
| 29C 29E | Midweek | 4% | 24% | 31% | 40% | 45% | 53% | 43% | 34% | 34% | 32% | 29% | 20% | 22% | 26% | 11% | 0% | 0% |
| 29C 29E | Weekend | 9% | 33% | 69% | 69% | 72% | 70% | 49% | 30% | 16% | 16% | 10% | 2% | 6% | 2% | 2% | 0% | 0% |
| 29DE | Midweek | 4% | 20% | 28% | 33% | 40% | 48% | 37% | 38% | 38% | 35% | 31% | 23% | 24% | 28% | 12% | 0% | 0% |
| 29DE | Weekend | 10% | 36% | 66% | 66% | 69% | 67% | 51% | 33% | 18% | 18% | 12% | 2% | 7% | 2% | 2% | 0% | 0% |
| 29DW | Midweek | 8% | 22% | 26% | 25% | 28% | 31% | 30% | 35% | 36% | 36% | 32% | 28% | 23% | 25% | 9% | 0% | 0% |
| 29DW | Weekend | 15% | 43% | 76% | 73% | 62% | 53% | 34% | 23% | 13% | 13% | 12% | 4% | 5% | 5% | 0% | 0% | 0% |
| 29F | Midweek | 6% | 22% | 28% | 28% | 32% | 30% | 30% | 32% | 35% | 39% | 35% | 29% | 24% | 22% | 7% | 0% | 0% |
| 29F | Weekend | 13% | 35% | 62% | 62% | 60% | 50% | 34% | 24% | 18% | 15% | 13% | 6% | 8% | 8% | 1% | 0% | 0% |
| 29G | Midweek | 8% | 23% | 46% | 46% | 52% | 46% | 39% | 32% | 29% | 42% | 40% | 29% | 25% | 10% | 7% | 0% | 0% |
| 29G | Weekend | 8% | 28% | 45% | 49% | 62% | 53% | 39% | 35% | 23% | 19% | 15% | 8% | 14% | 10% | 3% | 0% | 0% |

Table 8: Daily Fishing Conditions.

| Date | Day Type | Crofton Ramp | Gibson's Marina | Ladysmith | McDonald Beach | Planetarium | Porteau Cove | Sewell's East | Thunderbird Marina |
|-------------|----------|--------------------|--------------------|--------------|--------------------|-------------|--------------|---------------|--------------------|
| 28 Jun 2023 | Midweek | | | | | | | | |
| 29 Jun 2023 | Midweek | | | | choppy | | | | |
| 30 Jun 2023 | Midweek | | | | | | | | |
| 01 Jul 2023 | Weekend | | | | | | | large swells | |
| 02 Jul 2023 | Weekend | | | | | | | | |
| 03 Jul 2023 | Weekend | | | | | | | | |
| 04 Jul 2023 | Midweek | | | | | | | | |
| 05 Jul 2023 | Midweek | | | | | | | | |
| 06 Jul 2023 | Midweek | | | | choppy | | | | |
| 07 Jul 2023 | Midweek | | | | choppy | | | | |
| 08 Jul 2023 | Weekend | | choppy | | | choppy | | | |
| 09 Jul 2023 | Weekend | | | | | | | | |
| 10 Jul 2023 | Midweek | frequent whitecaps | | | | | | | |
| 11 Jul 2023 | Midweek | | | | choppy | | | | |
| 12 Jul 2023 | Midweek | | | | | | | | |
| 13 Jul 2023 | Midweek | | | | | choppy | | | |
| 14 Jul 2023 | Midweek | | | | | | | | calm/rippled |
| 15 Jul 2023 | Weekend | | | calm/rippled | | | calm/rippled | | |
| 16 Jul 2023 | Weekend | | calm/rippled | | | | | | choppy |
| 17 Jul 2023 | Midweek | | | | | | | | |
| 18 Jul 2023 | Midweek | | | | | choppy | | | |
| 19 Jul 2023 | Midweek | | choppy | | | | | calm/rippled | |
| 20 Jul 2023 | Midweek | | | | | | | | calm/rippled |
| 21 Jul 2023 | Midweek | | | | large swells | | | | |
| 22 Jul 2023 | Weekend | frequent whitecaps | frequent whitecaps | | frequent whitecaps | | | | |
| 23 Jul 2023 | Weekend | | | choppy | | choppy | | | |
| 24 Jul 2023 | Midweek | | | | | | | | |
| 25 Jul 2023 | Midweek | | | | | | | | |
| 26 Jul 2023 | Midweek | | choppy | | | | | | |
| 27 Jul 2023 | Midweek | | | | | | | choppy | |
| 28 Jul 2023 | Midweek | | | | | | | | |
| 29 Jul 2023 | Weekend | | | | choppy | | | | |
| 30 Jul 2023 | Weekend | | | | | | | | |
| 31 Jul 2023 | Midweek | | | | | | | | |
| 01 Aug 2023 | Midweek | | | | | | | calm/rippled | |
| 02 Aug 2023 | Midweek | | | | | | calm/rippled | | |
| 03 Aug 2023 | Midweek | | choppy | | | | | | |