

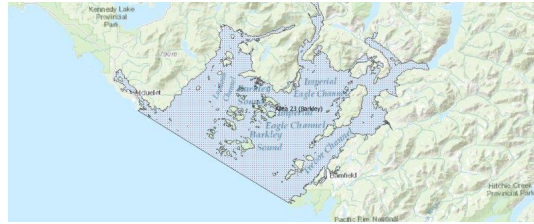
# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

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## Area 23 (Barkley) September 2023



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*Prepared By:*

South Coast Salmon Stock Assessment Section

Saturday 13<sup>th</sup> January, 2024



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada

**your  
catch  
counts**

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

|             |          | China Creek |    |    | Clutesi Marina | Clutesi Ramp |    |    | Harbour Quay - Derby Only AM | Island West | McKay Bay Gas Dock |    |    | Mills Landing |    |    | Pat Leslie Boat Launch | Poett Nook | Ucluelet Gov Dock |    |
|-------------|----------|-------------|----|----|----------------|--------------|----|----|------------------------------|-------------|--------------------|----|----|---------------|----|----|------------------------|------------|-------------------|----|
| Date        | Day Type | AM          | MD | PM | AM             | AM           | MD | PM |                              | MD          | AM                 | MD | PM | AM            | MD | PM | MD                     | MD         | MD                | PM |
| 29 Aug 2023 | Midweek  |             |    |    | 1              | 1            |    |    |                              |             | 11                 | 32 |    |               |    |    |                        |            | 2                 |    |
| 30 Aug 2023 | Midweek  |             |    |    |                |              | 5  |    |                              |             |                    |    |    |               |    |    |                        |            |                   | 3  |
| 31 Aug 2023 | Midweek  |             | 2  |    |                | 4            |    |    |                              |             |                    |    |    |               |    | 10 |                        |            | 2                 |    |
| 01 Sep 2023 | Midweek  |             | 5  |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 02 Sep 2023 | Weekend  | 6           |    |    |                |              |    |    | 3                            | 6           |                    | 24 |    |               |    |    |                        |            | 6                 |    |
| 03 Sep 2023 | Weekend  |             | 5  |    |                |              |    |    | 1                            |             |                    |    |    |               |    | 13 | 3                      |            |                   |    |
| 04 Sep 2023 | Weekend  | 8           |    |    |                |              |    |    | 3                            |             |                    |    | 13 |               |    |    |                        |            |                   |    |
| 05 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              | 1           |                    |    |    |               |    |    |                        | 12         |                   |    |
| 06 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    | 15 |    |               |    |    |                        |            | 3                 |    |
| 07 Sep 2023 | Midweek  |             | 5  |    |                |              | 3  |    |                              |             |                    |    | 19 |               |    |    |                        |            |                   |    |
| 08 Sep 2023 | Midweek  |             |    |    |                | 3            |    |    |                              |             |                    |    |    |               |    |    |                        |            | 3                 |    |
| 09 Sep 2023 | Weekend  |             |    |    |                |              | 6  |    |                              |             |                    |    |    |               |    |    |                        |            | 5                 |    |
| 10 Sep 2023 | Weekend  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 11 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             | 4                  |    |    |               | 7  |    |                        |            | 1                 |    |
| 12 Sep 2023 | Midweek  |             |    | 1  |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            | 1                 |    |
| 13 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    | 6  |    |               |    |    |                        |            |                   |    |
| 14 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 15 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   | 2  |
| 16 Sep 2023 | Weekend  |             |    |    |                |              | 4  |    |                              |             |                    |    |    |               | 2  |    |                        |            |                   |    |
| 17 Sep 2023 | Weekend  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            | 2                 |    |
| 18 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 19 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 20 Sep 2023 | Midweek  |             |    |    |                |              |    | 3  |                              |             |                    |    |    |               |    |    |                        |            | 1                 |    |
| 21 Sep 2023 | Midweek  |             |    |    |                |              |    | 1  |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 22 Sep 2023 | Midweek  |             |    |    |                | 1            |    |    |                              |             |                    |    |    | 1             |    |    | 1                      |            |                   |    |
| 23 Sep 2023 | Weekend  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 24 Sep 2023 | Weekend  |             |    |    |                |              |    |    |                              |             |                    | 1  |    |               |    |    |                        |            |                   |    |
| 25 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 26 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 27 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 28 Sep 2023 | Midweek  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 29 Sep 2023 | Midweek  |             |    |    |                |              | 1  |    |                              |             |                    |    |    |               |    |    |                        |            |                   |    |
| 30 Sep 2023 | Weekend  |             |    |    |                |              |    |    |                              |             |                    |    |    |               |    |    |                        |            | 1                 |    |
| 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             | calm/rippled               | 35                     | 61      | 31   |         |         | 38               | 1154        | 63               |
| 30-Aug-2023 | Wednesday           | calm/rippled               | 18                     | 23      | 19   |         |         |                  |             |                  |
| 31-Aug-2023 | Thursday            | choppy                     | 10                     | 11      | 7    |         |         |                  |             |                  |
| 01-Sep-2023 | Friday              | choppy                     | 24                     | 31      | 26   |         |         | 121              | 0734        | 308              |
| 02-Sep-2023 | Saturday            | choppy                     | 39                     | 46      | 24   |         |         | 339              | 0727        | 611              |
| 03-Sep-2023 | Sunday              | frequent whitecaps         | 29                     | 29      | 33   |         |         |                  |             |                  |
| 04-Sep-2023 | Monday (Labour Day) | choppy                     | 30                     | 51      | 32   |         |         |                  |             |                  |
| 05-Sep-2023 | Tuesday             | choppy                     | 16                     | 33      | 15   |         |         |                  |             |                  |
| 06-Sep-2023 | Wednesday           | calm/rippled               | 18                     | 23      | 19   |         |         |                  |             |                  |
| 07-Sep-2023 | Thursday            | choppy                     | 27                     | 32      | 22   |         |         | 66               | 0848        | 122              |
| 08-Sep-2023 | Friday              | choppy                     | 6                      | 1       | 2    |         |         |                  |             |                  |
| 09-Sep-2023 | Saturday            | calm/rippled               | 11                     | 2       | 10   |         |         | 54               | 0851        | 84               |
| 10-Sep-2023 | Sunday              |                            | 0                      |         |      |         |         | 67               | 0832        | 104              |
| 11-Sep-2023 | Monday              | choppy                     | 6                      | 5       | 2    |         |         |                  |             |                  |
| 12-Sep-2023 | Tuesday             | choppy                     | 9                      | 5       | 14   |         |         | 14               | 1018        | 22               |
| 13-Sep-2023 | Wednesday           | choppy                     | 6                      | 2       | 6    |         |         |                  |             |                  |
| 14-Sep-2023 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 15-Sep-2023 | Friday              | frequent whitecaps         | 2                      |         |      |         |         | 6                | 0905        | 11               |
| 16-Sep-2023 | Saturday            | choppy                     | 6                      | 3       | 4    |         |         |                  |             |                  |
| 17-Sep-2023 | Sunday              | frequent whitecaps         | 2                      |         | 1    |         |         | 19               | 0823        | 30               |
| 18-Sep-2023 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 19-Sep-2023 | Tuesday             |                            | 3                      |         | 2    |         |         |                  |             |                  |
| 20-Sep-2023 | Wednesday           | choppy                     | 5                      | 2       | 3    |         |         | 9                | 0830        | 17               |
| 21-Sep-2023 | Thursday            | calm/rippled               | 4                      | 1       | 7    |         |         |                  |             |                  |
| 22-Sep-2023 | Friday              | calm/rippled               | 3                      |         |      |         |         |                  |             |                  |
| 23-Sep-2023 | Saturday            |                            | 0                      |         |      |         |         | 5                | 0828        | 8                |
| 24-Sep-2023 | Sunday              | choppy                     | 1                      |         |      |         |         | 2                | 0859        | 3                |
| 25-Sep-2023 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 26-Sep-2023 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 27-Sep-2023 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 28-Sep-2023 | Thursday            |                            | 0                      |         |      |         |         | 1                | 0837        | 2                |
| 29-Sep-2023 | Friday              | choppy                     | 1                      | 1       |      |         |         |                  |             |                  |
| 30-Sep-2023 | Saturday            | choppy                     | 1                      |         |      |         |         | 13               | 0833        | 21               |
| 01-Oct-2023 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 02-Oct-2023 | Monday              |                            | 1                      | 1       |      |         |         |                  |             |                  |
| 03-Oct-2023 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
|             | Totals              | choppy                     | 130                    | 136     | 118  |         |         | 36*              |             | 80*              |
|             | Totals              | choppy                     | 119                    | 131     | 104  |         |         | 71*              |             | 123*             |

\* 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  | 123                    | 10             | 1230                   | 1.101   | 0.874 |         |         | 1354     | 1075 |         |         |
| Midweek  | 80                     | 20             | 1600                   | 1.046   | 0.908 |         |         | 1674     | 1453 |         |         |

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

| Year     | Month     | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-----------|--------------|--------------|-----------|--------------|--------------|
| 2018     | September | 2733         | 1745         | 626       |              |              |
| 2019     | September | 1265         | 697          | 475       |              | 0            |
| 2020     | September | 2673         | 490          | 478       |              | 0            |
| 2021     | September | 2550         | 1806         | 1306      |              | 0            |
| 2022     | September | 1942         | 717          | 1400      |              | 2            |
| 2023     | September | 3345         | 3505         | 2647      |              | 0            |
| 5-Yr Avg | September | 2233         | 1091         | 857       |              | 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    | 463                | 24%             | 5%                    | 486               | 27%            | 5%                   | 25                    |
| Chinook | 147                | 5%              | 7%                    | 403               | 20%            | 2%                   | 10                    |

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 249                      | 14%               |
| iRec Anglers     | 4022                     | 12%               |

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

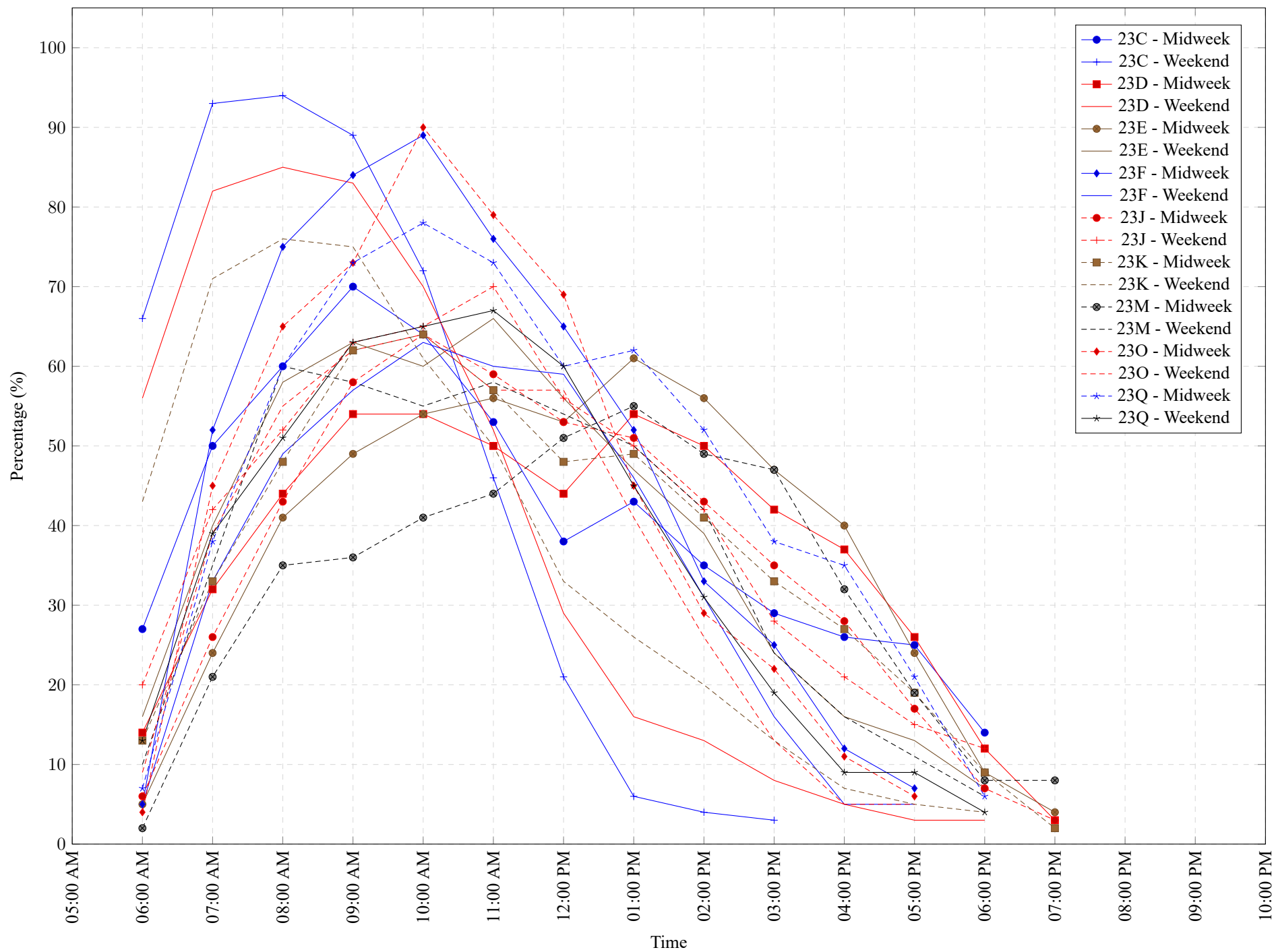


Table 7: Proportion of each day's fishing by hour.

| 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 |
|-------|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 23C   | Midweek  | 27%     | 50%     | 60%     | 70%     | 64%      | 53%      | 38%      | 43%      | 35%      | 29%      | 26%      | 25%      | 14%      | 0%       | 0%       | 0%       | 0%       |
| 23C   | Weekend  | 66%     | 93%     | 94%     | 89%     | 72%      | 46%      | 21%      | 6%       | 4%       | 3%       | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       |
| 23D   | Midweek  | 14%     | 32%     | 44%     | 54%     | 54%      | 50%      | 44%      | 54%      | 50%      | 42%      | 37%      | 26%      | 12%      | 3%       | 0%       | 0%       | 0%       |
| 23D   | Weekend  | 56%     | 82%     | 85%     | 83%     | 70%      | 52%      | 29%      | 16%      | 13%      | 8%       | 5%       | 3%       | 3%       | 0%       | 0%       | 0%       | 0%       |
| 23E   | Midweek  | 5%      | 24%     | 41%     | 49%     | 54%      | 56%      | 53%      | 61%      | 56%      | 47%      | 40%      | 24%      | 9%       | 4%       | 0%       | 0%       | 0%       |
| 23E   | Weekend  | 16%     | 40%     | 58%     | 63%     | 60%      | 66%      | 56%      | 47%      | 39%      | 24%      | 16%      | 13%      | 7%       | 0%       | 0%       | 0%       | 0%       |
| 23F   | Midweek  | 5%      | 52%     | 75%     | 84%     | 89%      | 76%      | 65%      | 52%      | 33%      | 25%      | 12%      | 7%       | 0%       | 0%       | 0%       | 0%       | 0%       |
| 23F   | Weekend  | 5%      | 33%     | 49%     | 57%     | 63%      | 60%      | 59%      | 46%      | 31%      | 16%      | 5%       | 5%       | 0%       | 0%       | 0%       | 0%       | 0%       |
| 23J   | Midweek  | 6%      | 26%     | 43%     | 58%     | 64%      | 59%      | 53%      | 51%      | 43%      | 35%      | 28%      | 17%      | 7%       | 3%       | 0%       | 0%       | 0%       |
| 23J   | Weekend  | 20%     | 42%     | 52%     | 63%     | 65%      | 70%      | 56%      | 50%      | 42%      | 28%      | 21%      | 15%      | 12%      | 0%       | 0%       | 0%       | 0%       |
| 23K   | Midweek  | 13%     | 33%     | 48%     | 62%     | 64%      | 57%      | 48%      | 49%      | 41%      | 33%      | 27%      | 19%      | 9%       | 2%       | 0%       | 0%       | 0%       |
| 23K   | Weekend  | 43%     | 71%     | 76%     | 75%     | 61%      | 50%      | 33%      | 26%      | 20%      | 13%      | 7%       | 5%       | 4%       | 0%       | 0%       | 0%       | 0%       |
| 23M   | Midweek  | 2%      | 21%     | 35%     | 36%     | 41%      | 44%      | 51%      | 55%      | 49%      | 47%      | 32%      | 19%      | 8%       | 8%       | 0%       | 0%       | 0%       |
| 23M   | Weekend  | 10%     | 35%     | 60%     | 58%     | 55%      | 58%      | 54%      | 50%      | 42%      | 24%      | 16%      | 11%      | 6%       | 0%       | 0%       | 0%       | 0%       |
| 23O   | Midweek  | 4%      | 45%     | 65%     | 73%     | 90%      | 79%      | 69%      | 45%      | 29%      | 22%      | 11%      | 6%       | 0%       | 0%       | 0%       | 0%       | 0%       |
| 23O   | Weekend  | 9%      | 39%     | 55%     | 62%     | 64%      | 57%      | 57%      | 41%      | 26%      | 13%      | 5%       | 5%       | 0%       | 0%       | 0%       | 0%       | 0%       |
| 23Q   | Midweek  | 7%      | 38%     | 60%     | 73%     | 78%      | 73%      | 60%      | 62%      | 52%      | 38%      | 35%      | 21%      | 6%       | 0%       | 0%       | 0%       | 0%       |
| 23Q   | Weekend  | 13%     | 39%     | 51%     | 63%     | 65%      | 67%      | 60%      | 45%      | 31%      | 19%      | 9%       | 9%       | 4%       | 0%       | 0%       | 0%       | 0%       |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | China Creek        | Clutesi Marina | Clutesi Ramp       | Harbour Quay - Derby Only | Island West        | McKay Bay Gas Dock | Mills Landing      | Pat Leslie Boat Launch | Poett Nook | Ucluelet Gov Dock  |
|-------------|----------|--------------------|----------------|--------------------|---------------------------|--------------------|--------------------|--------------------|------------------------|------------|--------------------|
| 29 Aug 2023 | Midweek  |                    |                |                    |                           |                    | calm/rippled       |                    |                        |            |                    |
| 30 Aug 2023 | Midweek  |                    | choppy         | calm/rippled       |                           |                    | calm/rippled       |                    |                        |            | calm/rippled       |
| 31 Aug 2023 | Midweek  | choppy             |                | choppy             |                           |                    |                    |                    |                        |            | choppy             |
| 01 Sep 2023 | Midweek  | frequent whitecaps |                | choppy             |                           |                    |                    | choppy             |                        |            | choppy             |
| 02 Sep 2023 | Weekend  | choppy             |                |                    | calm/rippled              |                    | calm/rippled       |                    |                        |            | large swells       |
| 03 Sep 2023 | Weekend  | frequent whitecaps |                |                    | calm/rippled              | frequent whitecaps |                    | frequent whitecaps | frequent whitecaps     |            |                    |
| 04 Sep 2023 | Weekend  | choppy             |                |                    | choppy                    |                    | choppy             |                    |                        |            |                    |
| 05 Sep 2023 | Midweek  |                    |                |                    |                           | choppy             |                    |                    |                        | choppy     |                    |
| 06 Sep 2023 | Midweek  |                    |                |                    |                           |                    | choppy             |                    |                        |            | calm/rippled       |
| 07 Sep 2023 | Midweek  | choppy             |                | frequent whitecaps |                           |                    | choppy             |                    |                        |            |                    |
| 08 Sep 2023 | Midweek  |                    |                | choppy             |                           |                    |                    |                    |                        |            | calm/rippled       |
| 09 Sep 2023 | Weekend  |                    |                | calm/rippled       |                           |                    |                    |                    |                        |            | calm/rippled       |
| 10 Sep 2023 | Weekend  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 11 Sep 2023 | Midweek  |                    |                |                    |                           |                    | choppy             |                    |                        |            | large swells       |
| 12 Sep 2023 | Midweek  | calm/rippled       |                |                    |                           |                    |                    | choppy             |                        |            | frequent whitecaps |
| 13 Sep 2023 | Midweek  |                    |                |                    |                           |                    | choppy             |                    |                        |            |                    |
| 14 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 15 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            | frequent whitecaps |
| 16 Sep 2023 | Weekend  |                    |                | choppy             |                           |                    |                    | choppy             |                        |            |                    |
| 17 Sep 2023 | Weekend  |                    |                |                    |                           |                    |                    |                    |                        |            | frequent whitecaps |
| 18 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 19 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 20 Sep 2023 | Midweek  |                    |                | choppy             |                           |                    |                    |                    |                        |            | choppy             |
| 21 Sep 2023 | Midweek  |                    |                | calm/rippled       |                           |                    |                    |                    |                        |            |                    |
| 22 Sep 2023 | Midweek  |                    |                | calm/rippled       |                           |                    |                    | calm/rippled       | choppy                 |            |                    |
| 23 Sep 2023 | Weekend  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 24 Sep 2023 | Weekend  |                    |                |                    |                           |                    | choppy             |                    |                        |            |                    |
| 25 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 26 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 27 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 28 Sep 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 29 Sep 2023 | Midweek  |                    |                | choppy             |                           |                    |                    |                    |                        |            |                    |
| 30 Sep 2023 | Weekend  |                    |                |                    |                           |                    |                    |                    |                        |            | choppy             |
| 01 Oct 2023 | Weekend  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 02 Oct 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |
| 03 Oct 2023 | Midweek  |                    |                |                    |                           |                    |                    |                    |                        |            |                    |