

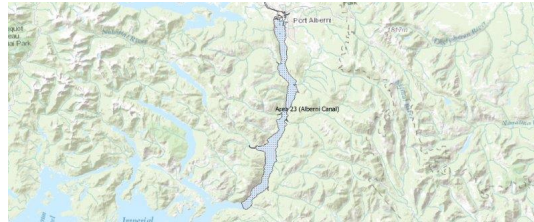
# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

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## Area 23 (Alberni Canal) July 2022



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*Prepared By:*  
South Coast Salmon Stock Assessment Section

Thursday 19<sup>th</sup> January, 2023



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada



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

| Date        | Day Type | China Creek |    |    | Clutesi Marina<br>AM | Clutesi Ramp |    |    |
|-------------|----------|-------------|----|----|----------------------|--------------|----|----|
|             |          | AM          | MD | PM |                      | AM           | MD | PM |
| 28 Jun 2022 | Midweek  | 17          |    |    |                      |              |    |    |
| 29 Jun 2022 | Midweek  |             |    |    | 2                    | 1            |    |    |
| 30 Jun 2022 | Midweek  |             |    |    |                      |              | 6  |    |
| 01 Jul 2022 | Weekend  | 9           |    |    |                      |              |    |    |
| 02 Jul 2022 | Weekend  |             |    | 3  |                      |              |    |    |
| 03 Jul 2022 | Weekend  | 6           |    |    |                      | 2            |    |    |
| 04 Jul 2022 | Midweek  | 2           |    |    |                      |              |    |    |
| 05 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 06 Jul 2022 | Midweek  |             |    | 1  |                      | 2            |    |    |
| 07 Jul 2022 | Midweek  | 16          |    |    |                      |              |    |    |
| 08 Jul 2022 | Midweek  |             |    |    |                      | 2            |    |    |
| 09 Jul 2022 | Weekend  |             |    |    |                      |              |    |    |
| 10 Jul 2022 | Weekend  |             |    |    |                      | 2            |    |    |
| 11 Jul 2022 | Midweek  | 4           |    |    |                      |              |    |    |
| 12 Jul 2022 | Midweek  |             |    |    |                      |              |    | 2  |
| 13 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 14 Jul 2022 | Midweek  |             |    |    |                      |              | 1  |    |
| 15 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 16 Jul 2022 | Weekend  |             |    |    |                      |              |    |    |
| 17 Jul 2022 | Weekend  |             |    |    |                      |              |    |    |
| 18 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 19 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 20 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 21 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 22 Jul 2022 | Midweek  |             |    |    |                      |              | 1  |    |
| 23 Jul 2022 | Weekend  | 3           |    |    |                      |              |    |    |
| 24 Jul 2022 | Weekend  |             |    |    |                      |              |    |    |
| 25 Jul 2022 | Midweek  | 7           |    |    |                      |              |    |    |
| 26 Jul 2022 | Midweek  |             |    |    |                      | 3            |    |    |
| 27 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 28 Jul 2022 | Midweek  |             |    |    |                      |              |    |    |
| 29 Jul 2022 | Midweek  |             | 6  |    |                      |              |    |    |
| 30 Jul 2022 | Weekend  |             |    | 1  |                      | 4            |    |    |
| 31 Jul 2022 | Weekend  |             |    |    |                      | 7            |    |    |
| 01 Aug 2022 | Weekend  |             |    | 2  |                      | 3            |    |    |
| 02 Aug 2022 | Midweek  |             |    |    |                      | 5            |    |    |
| 03 Aug 2022 | Midweek  |             |    |    | 1                    |              |    |    |

*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-2022 | Tuesday             | frequent whitecaps         | 17                     |         |      | 24      |         | 89               | 0747        | 117              |
| 29-Jun-2022 | Wednesday           | calm/rippled               | 3                      |         |      |         |         |                  |             |                  |
| 30-Jun-2022 | Thursday            | calm/rippled               | 6                      |         |      |         |         |                  |             |                  |
| 01-Jul-2022 | Friday (Canada Day) | choppy                     | 9                      |         |      |         |         | 169              | 0822        | 222              |
| 02-Jul-2022 | Saturday            | choppy                     | 3                      |         |      |         |         |                  |             |                  |
| 03-Jul-2022 | Sunday              | calm/rippled               | 8                      |         |      |         |         |                  |             |                  |
| 04-Jul-2022 | Monday              | frequent whitecaps         | 2                      |         |      |         |         |                  |             |                  |
| 05-Jul-2022 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 06-Jul-2022 | Wednesday           | calm/rippled               | 3                      |         |      | 12      |         | 40               | 0741        | 53               |
| 07-Jul-2022 | Thursday            | choppy                     | 16                     |         |      | 2       |         |                  |             |                  |
| 08-Jul-2022 | Friday              | calm/rippled               | 2                      |         |      |         |         |                  |             |                  |
| 09-Jul-2022 | Saturday            |                            | 0                      |         |      |         |         | 114              | 0737        | 132              |
| 10-Jul-2022 | Sunday              | calm/rippled               | 2                      |         |      | 1       |         |                  |             |                  |
| 11-Jul-2022 | Monday              | choppy                     | 4                      |         |      |         |         |                  |             |                  |
| 12-Jul-2022 | Tuesday             | frequent whitecaps         | 2                      |         |      |         |         | 18               | 0845        | 24               |
| 13-Jul-2022 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 14-Jul-2022 | Thursday            | choppy                     | 1                      |         |      |         |         |                  |             |                  |
| 15-Jul-2022 | Friday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 16-Jul-2022 | Saturday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 17-Jul-2022 | Sunday              |                            | 0                      |         |      |         |         | 23               | 0753        | 27               |
| 18-Jul-2022 | Monday              |                            | 0                      |         |      |         |         | 3                | 0820        | 4                |
| 19-Jul-2022 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 20-Jul-2022 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 21-Jul-2022 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 22-Jul-2022 | Friday              | frequent whitecaps         | 1                      |         |      |         |         |                  |             |                  |
| 23-Jul-2022 | Saturday            | choppy                     | 3                      |         |      |         |         | 39               | 0743        | 45               |
| 24-Jul-2022 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 25-Jul-2022 | Monday              | choppy                     | 7                      |         |      | 10      |         |                  |             |                  |
| 26-Jul-2022 | Tuesday             | choppy                     | 3                      |         |      |         |         | 22               | 0756        | 29               |
| 27-Jul-2022 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 28-Jul-2022 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 29-Jul-2022 | Friday              | frequent whitecaps         | 6                      | 1       |      | 5       |         |                  |             |                  |
| 30-Jul-2022 | Saturday            | choppy                     | 5                      | 1       |      | 7       |         |                  |             |                  |
| 31-Jul-2022 | Sunday              | choppy                     | 7                      |         |      | 10      |         | 153              | 0757        | 177              |
| 01-Aug-2022 | Monday (B.C. Day)   | choppy                     | 5                      |         |      | 8       |         |                  |             |                  |
| 02-Aug-2022 | Tuesday             | frequent whitecaps         | 5                      | 1       |      | 17      |         |                  |             |                  |
| 03-Aug-2022 | Wednesday           | choppy                     | 1                      |         |      | 3       |         |                  |             |                  |
|             | Totals              | choppy                     | 47                     | 1       |      | 29      |         | 21*              |             | 28*              |
|             | Totals              | choppy                     | 37                     | 1       |      | 18      |         | 100*             |             | 121*             |

\* 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  | 121                    | 11             | 1331                   | 0.027   |      | 0.486   |         | 36       |      | 647     |         |
| Midweek  | 28                     | 20             | 560                    | 0.021   |      | 0.617   |         | 12       |      | 346     |         |

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

| Year     | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-------|--------------|--------------|-----------|--------------|--------------|
| 2017     | July  | 3240         | 16           |           | 10107        |              |
| 2018     | July  | 1121         | 40           |           | 1140         |              |
| 2019     | July  | 564          | 152          | 11        | 69           | 11           |
| 2020     | July  | 1981         | 12           |           | 4604         | 0            |
| 2021     | July  | 4279         | 16           |           | 26112        | 0            |
| 2022     | July  | 1051         | 8            |           | 588          | 0            |
| 5-Yr Avg | July  | 2237         | 47           | 11        | 8406         | 4            |

**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 |
|---------|--------------------|-----------------|-----------------------|-------------------|----------------|----------------------|-----------------------|
| Chinook | 0                  | 0%              |                       | 397               | 42%            | 1%                   | 5                     |

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 84                       | 2%                |
| iRec Anglers     | 1949                     | 23%               |

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

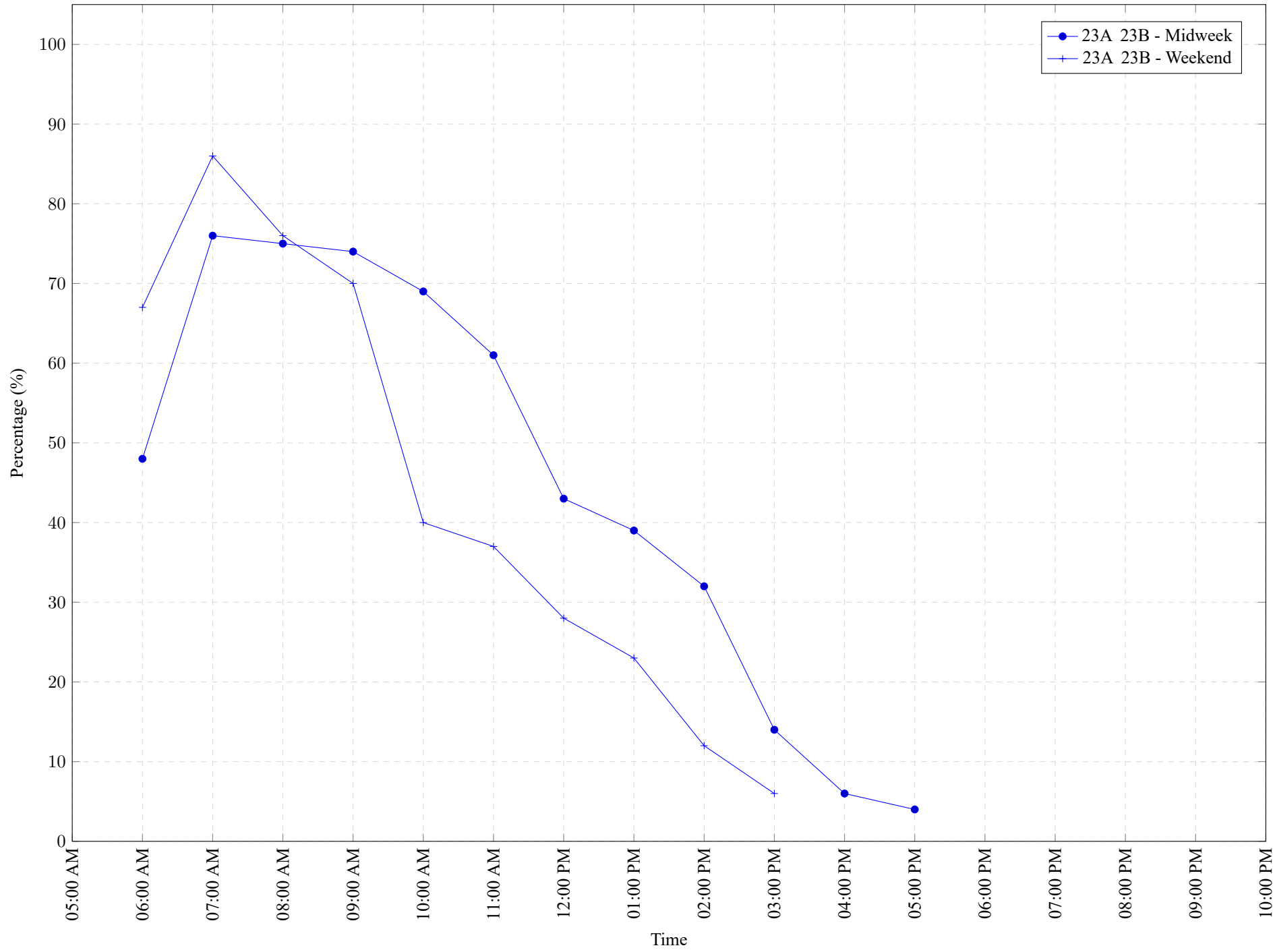


Table 7: Proportion of each day's fishing by hour.

| Areas |     | Day Type | 6:00<br>AM | 7:00<br>AM | 8:00<br>AM | 9:00<br>AM | 10:00<br>AM | 11:00<br>AM | 12:00<br>PM | 01:00<br>PM | 02:00<br>PM | 03:00<br>PM | 04:00<br>PM | 05:00<br>PM | 06:00<br>PM | 07:00<br>PM | 08:00<br>PM | 09:00<br>PM | 10:00<br>PM |
|-------|-----|----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 23A   | 23B | Midweek  | 48%        | 76%        | 75%        | 74%        | 69%         | 61%         | 43%         | 39%         | 32%         | 14%         | 6%          | 4%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23A   | 23B | Weekend  | 67%        | 86%        | 76%        | 70%        | 40%         | 37%         | 28%         | 23%         | 12%         | 6%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | China Creek        | Clutesi Marina | Clutesi Ramp       |
|-------------|----------|--------------------|----------------|--------------------|
| 28 Jun 2022 | Midweek  | frequent whitecaps |                |                    |
| 29 Jun 2022 | Midweek  |                    | calm/rippled   | calm/rippled       |
| 30 Jun 2022 | Midweek  |                    |                | calm/rippled       |
| 01 Jul 2022 | Weekend  | choppy             |                |                    |
| 02 Jul 2022 | Weekend  | choppy             |                |                    |
| 03 Jul 2022 | Weekend  | calm/rippled       |                | calm/rippled       |
| 04 Jul 2022 | Midweek  | frequent whitecaps |                |                    |
| 05 Jul 2022 | Midweek  |                    |                |                    |
| 06 Jul 2022 | Midweek  | calm/rippled       |                | calm/rippled       |
| 07 Jul 2022 | Midweek  | choppy             |                |                    |
| 08 Jul 2022 | Midweek  |                    |                | calm/rippled       |
| 09 Jul 2022 | Weekend  |                    |                |                    |
| 10 Jul 2022 | Weekend  |                    |                | calm/rippled       |
| 11 Jul 2022 | Midweek  | choppy             |                |                    |
| 12 Jul 2022 | Midweek  |                    |                | frequent whitecaps |
| 13 Jul 2022 | Midweek  |                    |                |                    |
| 14 Jul 2022 | Midweek  |                    |                | choppy             |
| 15 Jul 2022 | Midweek  |                    |                |                    |
| 16 Jul 2022 | Weekend  |                    |                |                    |
| 17 Jul 2022 | Weekend  |                    |                |                    |
| 18 Jul 2022 | Midweek  |                    |                |                    |
| 19 Jul 2022 | Midweek  |                    |                |                    |
| 20 Jul 2022 | Midweek  |                    |                |                    |
| 21 Jul 2022 | Midweek  |                    |                |                    |
| 22 Jul 2022 | Midweek  |                    |                | frequent whitecaps |
| 23 Jul 2022 | Weekend  | choppy             |                |                    |
| 24 Jul 2022 | Weekend  |                    |                |                    |
| 25 Jul 2022 | Midweek  | choppy             |                |                    |
| 26 Jul 2022 | Midweek  |                    |                | choppy             |
| 27 Jul 2022 | Midweek  |                    |                |                    |
| 28 Jul 2022 | Midweek  |                    |                |                    |
| 29 Jul 2022 | Midweek  | frequent whitecaps |                |                    |
| 30 Jul 2022 | Weekend  | choppy             |                | choppy             |
| 31 Jul 2022 | Weekend  |                    |                | choppy             |
| 01 Aug 2022 | Weekend  | large swells       |                | calm/rippled       |
| 02 Aug 2022 | Midweek  |                    |                | frequent whitecaps |
| 03 Aug 2022 | Midweek  |                    | choppy         |                    |