

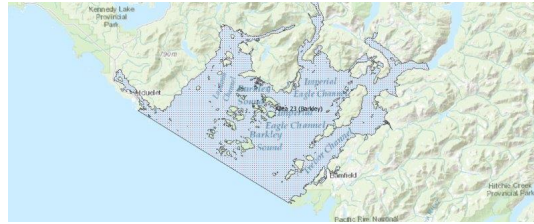
# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

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## Area 23 (Barkley) September 2019



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*Prepared By:*

South Coast Salmon Stock Assessment Section

Thursday 27<sup>th</sup> August, 2020



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.**

| Date        | Day Type | China Creek | Clutesi Ramp |    | Eagle Marine (Fuel Dock) |    |    | Seabeam Resort |    |    | Tofino Resort and Marina | Ucluelet Gov Dock |
|-------------|----------|-------------|--------------|----|--------------------------|----|----|----------------|----|----|--------------------------|-------------------|
|             |          | PM          | AM           | MD | AM                       | MD | PM | AM             | MD | PM | MD                       | MD                |
| 29 Aug 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 30 Aug 2019 | Midweek  |             |              | 5  |                          | 3  |    |                |    |    | 2                        |                   |
| 31 Aug 2019 | Weekend  |             |              |    |                          |    |    | 2              |    |    |                          |                   |
| 01 Sep 2019 | Weekend  |             | 3            |    |                          |    |    |                |    |    |                          | 6                 |
| 02 Sep 2019 | Weekend  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 03 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          | 3                 |
| 04 Sep 2019 | Midweek  | 1           |              |    | 1                        |    |    |                |    |    |                          |                   |
| 05 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 06 Sep 2019 | Midweek  |             |              |    |                          |    |    | 4              |    |    |                          |                   |
| 07 Sep 2019 | Weekend  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 08 Sep 2019 | Weekend  |             |              | 6  |                          |    |    |                | 2  |    |                          |                   |
| 09 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 10 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 11 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    | 2  |                          |                   |
| 12 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 13 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 14 Sep 2019 | Weekend  |             |              |    |                          |    |    |                | 2  |    |                          |                   |
| 15 Sep 2019 | Weekend  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 16 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 17 Sep 2019 | Midweek  |             |              |    |                          |    | 1  |                |    |    |                          |                   |
| 18 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 19 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 20 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 21 Sep 2019 | Weekend  |             |              | 1  |                          |    |    |                |    |    |                          |                   |
| 22 Sep 2019 | Weekend  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 23 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 24 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 25 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 26 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 27 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 28 Sep 2019 | Weekend  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 29 Sep 2019 | Weekend  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 30 Sep 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 01 Oct 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 02 Oct 2019 | Midweek  |             |              |    |                          |    |    |                |    |    |                          |                   |
| 03 Oct 2019 | 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-2019 | Thursday            |                            | 5                      | 26      | 7    |         |         | 187              | 0842        | 306              |
| 30-Aug-2019 | Friday              | choppy                     | 12                     | 33      | 1    |         |         |                  |             |                  |
| 31-Aug-2019 | Saturday            | choppy                     | 12                     | 50      | 6    |         |         | 439              | 0755        | 840              |
| 01-Sep-2019 | Sunday              | calm/rippled               | 16                     | 17      | 14   |         |         |                  |             |                  |
| 02-Sep-2019 | Monday (Labour Day) |                            | 3                      | 17      | 2    |         |         |                  |             |                  |
| 03-Sep-2019 | Tuesday             | calm/rippled               | 5                      | 6       | 2    |         |         |                  |             |                  |
| 04-Sep-2019 | Wednesday           | choppy                     | 3                      | 10      | 4    |         |         |                  |             |                  |
| 05-Sep-2019 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 06-Sep-2019 | Friday              | calm/rippled               | 7                      | 9       | 9    |         |         |                  |             |                  |
| 07-Sep-2019 | Saturday            |                            | 1                      | 3       | 3    |         |         | 135              | 0820        | 232              |
| 08-Sep-2019 | Sunday              | choppy                     | 10                     | 6       | 3    |         |         |                  |             |                  |
| 09-Sep-2019 | Monday              |                            | 2                      | 6       | 2    |         |         |                  |             |                  |
| 10-Sep-2019 | Tuesday             |                            | 1                      | 5       |      |         |         |                  |             |                  |
| 11-Sep-2019 | Wednesday           | calm/rippled               | 2                      | 2       | 2    |         |         | 44               | 0809        | 76               |
| 12-Sep-2019 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 13-Sep-2019 | Friday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 14-Sep-2019 | Saturday            | frequent whitecaps         | 2                      |         |      |         |         |                  |             |                  |
| 15-Sep-2019 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 16-Sep-2019 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 17-Sep-2019 | Tuesday             | choppy                     | 1                      |         |      |         |         |                  |             |                  |
| 18-Sep-2019 | Wednesday           |                            | 0                      |         |      |         |         | 12               | 0820        | 21               |
| 19-Sep-2019 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 20-Sep-2019 | Friday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 21-Sep-2019 | Saturday            | choppy                     | 1                      | 2       | 1    |         |         | 2                | 0757        | 4                |
| 22-Sep-2019 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 23-Sep-2019 | Monday              |                            | 0                      |         |      |         |         | 4                | 0757        | 9                |
| 24-Sep-2019 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 25-Sep-2019 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 26-Sep-2019 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 27-Sep-2019 | Friday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 28-Sep-2019 | Saturday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 29-Sep-2019 | Sunday              |                            | 0                      |         |      |         |         | 8                | 0905        | 14               |
| 30-Sep-2019 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 01-Oct-2019 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 02-Oct-2019 | Wednesday           |                            | 0                      |         |      |         |         |                  |             |                  |
| 03-Oct-2019 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
|             | Totals              | calm/rippled               | 21                     | 38      | 19   |         |         | 20*              |             | 35*              |
|             | Totals              | choppy                     | 33                     | 45      | 23   |         |         | 48*              |             | 83*              |

\* 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  | 83                     | 10             | 830                    | 1.3640  | 0.6970 |         |         | 1132     | 579  |         |         |
| Midweek  | 35                     | 20             | 700                    | 1.81    | 0.9050 |         |         | 1267     | 634  |         |         |

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

| Year     | Month     | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-----------|--------------|--------------|-----------|--------------|--------------|
| 2014     | September | 1317         | 1039         | 1377      | 4            | 0            |
| 2015     | September | 3050         | 3653         | 1768      |              | 10           |
| 2016     | September | 3594         | 2665         | 2696      |              | 9            |
| 2017     | September | 3253         | 3330         | 1951      |              | 1            |
| 2018     | September | 3626         | 3029         | 731       |              | 2            |
| 2019     | September | 2744         | 1928         | 828       |              | 0            |
| 5-Yr Avg | September | 2968         | 2743         | 1705      | 4            | 4            |

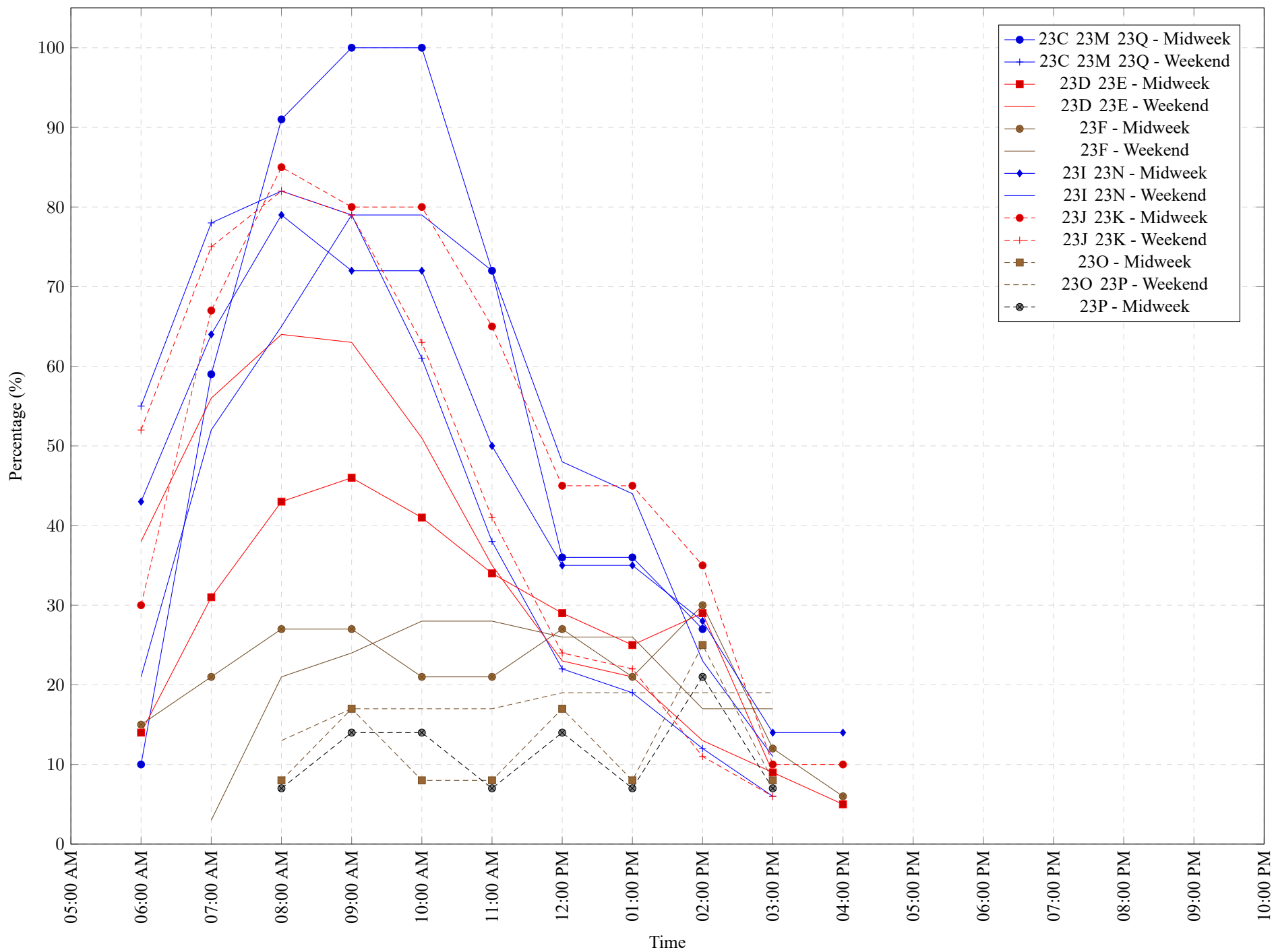
**Table 5: Sport Head Recovery Review.**

| Species | Creel Marked Catch | Creel Mark Rate | Creel Submission Rate | iRec Marked Catch | iRec Mark Rate | iRec Submission Rate | Sport Head Recoveries |
|---------|--------------------|-----------------|-----------------------|-------------------|----------------|----------------------|-----------------------|
| Coho    | 124                | 26%             | 16%                   | 302               | 48%            | 7%                   | 20                    |
| Chinook | 384                | 21%             | 7%                    | 485               | 28%            | 5%                   | 26                    |

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 115                      | 6%                |
| iRec Anglers     | 4081                     | 9%                |
| iRec Responses   | 88                       | 31%               |

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 |
|-------|-----|-----|----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 23C   | 23M | 23Q | Midweek  | 10%        | 59%        | 91%        | 100%       | 100%        | 72%         | 36%         | 36%         | 27%         | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23C   | 23M | 23Q | Weekend  | 55%        | 78%        | 82%        | 79%        | 61%         | 38%         | 22%         | 19%         | 12%         | 6%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23D   | 23E |     | Midweek  | 14%        | 31%        | 43%        | 46%        | 41%         | 34%         | 29%         | 25%         | 29%         | 9%          | 5%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23D   | 23E |     | Weekend  | 38%        | 56%        | 64%        | 63%        | 51%         | 35%         | 23%         | 21%         | 13%         | 9%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23F   |     |     | Midweek  | 15%        | 21%        | 27%        | 27%        | 21%         | 21%         | 27%         | 21%         | 30%         | 12%         | 6%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23F   |     |     | Weekend  | 0%         | 3%         | 21%        | 24%        | 28%         | 28%         | 26%         | 26%         | 17%         | 17%         | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23I   | 23N |     | Midweek  | 43%        | 64%        | 79%        | 72%        | 72%         | 50%         | 35%         | 35%         | 28%         | 14%         | 14%         | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23I   | 23N |     | Weekend  | 21%        | 52%        | 65%        | 79%        | 79%         | 72%         | 48%         | 44%         | 23%         | 11%         | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23J   | 23K |     | Midweek  | 30%        | 67%        | 85%        | 80%        | 80%         | 65%         | 45%         | 45%         | 35%         | 10%         | 10%         | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23J   | 23K |     | Weekend  | 52%        | 75%        | 82%        | 79%        | 63%         | 41%         | 24%         | 22%         | 11%         | 6%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23O   |     |     | Midweek  | 0%         | 0%         | 8%         | 17%        | 8%          | 8%          | 17%         | 8%          | 25%         | 8%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23O   | 23P |     | Weekend  | 0%         | 0%         | 13%        | 17%        | 17%         | 17%         | 19%         | 19%         | 19%         | 19%         | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 23P   |     |     | Midweek  | 0%         | 0%         | 7%         | 14%        | 14%         | 7%          | 14%         | 7%          | 21%         | 7%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | China Creek | Clutesi Ramp | Eagle Marine (Fuel Dock) | Seabeam Resort     | Tofino Resort and Marina | Ucluelet Gov Dock |
|-------------|----------|-------------|--------------|--------------------------|--------------------|--------------------------|-------------------|
| 29 Aug 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 30 Aug 2019 | Midweek  |             | calm/rippled | choppy                   |                    | choppy                   |                   |
| 31 Aug 2019 | Weekend  |             |              |                          | choppy             |                          |                   |
| 01 Sep 2019 | Weekend  |             | calm/rippled |                          |                    |                          | calm/rippled      |
| 02 Sep 2019 | Weekend  |             |              |                          |                    |                          |                   |
| 03 Sep 2019 | Midweek  |             |              |                          |                    |                          | calm/rippled      |
| 04 Sep 2019 | Midweek  | choppy      |              | calm/rippled             |                    |                          |                   |
| 05 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 06 Sep 2019 | Midweek  |             |              |                          | calm/rippled       |                          |                   |
| 07 Sep 2019 | Weekend  |             |              |                          |                    |                          |                   |
| 08 Sep 2019 | Weekend  |             | choppy       |                          | frequent whitecaps |                          |                   |
| 09 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 10 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 11 Sep 2019 | Midweek  |             |              |                          | calm/rippled       |                          |                   |
| 12 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 13 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 14 Sep 2019 | Weekend  |             |              |                          | frequent whitecaps |                          |                   |
| 15 Sep 2019 | Weekend  |             |              |                          |                    |                          |                   |
| 16 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 17 Sep 2019 | Midweek  |             |              | choppy                   |                    |                          |                   |
| 18 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 19 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 20 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 21 Sep 2019 | Weekend  |             | choppy       |                          |                    |                          |                   |
| 22 Sep 2019 | Weekend  |             |              |                          |                    |                          |                   |
| 23 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 24 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 25 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 26 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 27 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 28 Sep 2019 | Weekend  |             |              |                          |                    |                          |                   |
| 29 Sep 2019 | Weekend  |             |              |                          |                    |                          |                   |
| 30 Sep 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 01 Oct 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 02 Oct 2019 | Midweek  |             |              |                          |                    |                          |                   |
| 03 Oct 2019 | Midweek  |             |              |                          |                    |                          |                   |