

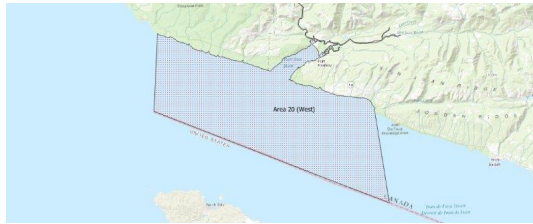
# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

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## Area 20 (West) June 2022



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*Prepared By:*  
South Coast Salmon Stock Assessment Section

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



Fisheries and Oceans  
Canada

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Canada



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

| Date        | Day Type | McKay<br>Bay Gas<br>Dock | Pacific Gateway<br>Marina |    | Port Renfrew<br>Marina |    |
|-------------|----------|--------------------------|---------------------------|----|------------------------|----|
|             |          | MD                       | MD                        | PM | AM                     | MD |
| 29 May 2022 | Weekend  |                          |                           |    |                        |    |
| 30 May 2022 | Midweek  |                          |                           |    |                        |    |
| 31 May 2022 | Midweek  |                          |                           |    |                        |    |
| 01 Jun 2022 | Midweek  |                          |                           |    |                        |    |
| 02 Jun 2022 | Midweek  |                          |                           |    |                        |    |
| 03 Jun 2022 | Midweek  |                          |                           |    |                        |    |
| 04 Jun 2022 | Weekend  |                          |                           |    |                        |    |
| 05 Jun 2022 | Weekend  |                          |                           |    |                        |    |
| 06 Jun 2022 | Midweek  |                          |                           |    |                        |    |
| 07 Jun 2022 | Midweek  |                          | 2                         |    |                        |    |
| 08 Jun 2022 | Midweek  |                          | 5                         |    |                        |    |
| 09 Jun 2022 | Midweek  |                          | 3                         |    |                        |    |
| 10 Jun 2022 | Midweek  |                          | 8                         |    |                        |    |
| 11 Jun 2022 | Weekend  |                          | 4                         |    |                        |    |
| 12 Jun 2022 | Weekend  |                          | 8                         |    |                        |    |
| 13 Jun 2022 | Midweek  |                          |                           |    |                        | 1  |
| 14 Jun 2022 | Midweek  |                          | 5                         |    |                        |    |
| 15 Jun 2022 | Midweek  |                          |                           |    |                        | 4  |
| 16 Jun 2022 | Midweek  |                          | 4                         |    |                        | 9  |
| 17 Jun 2022 | Midweek  |                          | 5                         |    |                        | 8  |
| 18 Jun 2022 | Weekend  |                          | 6                         |    |                        |    |
| 19 Jun 2022 | Weekend  |                          |                           | 3  |                        | 3  |
| 20 Jun 2022 | Midweek  |                          | 4                         |    |                        |    |
| 21 Jun 2022 | Midweek  |                          | 1                         |    |                        |    |
| 22 Jun 2022 | Midweek  |                          |                           |    |                        | 4  |
| 23 Jun 2022 | Midweek  |                          |                           |    |                        | 8  |
| 24 Jun 2022 | Midweek  |                          | 5                         |    |                        |    |
| 25 Jun 2022 | Weekend  |                          | 12                        |    |                        | 20 |
| 26 Jun 2022 | Weekend  |                          |                           |    |                        |    |
| 27 Jun 2022 | Midweek  |                          | 8                         |    |                        |    |
| 28 Jun 2022 | Midweek  |                          |                           |    |                        |    |
| 29 Jun 2022 | Midweek  | 2                        | 8                         |    |                        |    |
| 30 Jun 2022 | Midweek  |                          |                           |    | 3                      | 3  |
| 01 Jul 2022 | Weekend  |                          |                           |    | 21                     |    |
| 02 Jul 2022 | Weekend  |                          | 12                        |    |                        |    |
| 03 Jul 2022 | Weekend  |                          |                           |    |                        | 12 |

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-May-2022 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 30-May-2022 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 31-May-2022 | Tuesday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 01-Jun-2022 | Wednesday           |                            | 0                      |         |      |         |         | 5                | 0836        | 5                |
| 02-Jun-2022 | Thursday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 03-Jun-2022 | Friday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 04-Jun-2022 | Saturday            |                            | 0                      |         |      |         |         | 8                | 0857        | 12               |
| 05-Jun-2022 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 06-Jun-2022 | Monday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 07-Jun-2022 | Tuesday             | choppy                     | 2                      |         |      |         |         |                  |             |                  |
| 08-Jun-2022 | Wednesday           | choppy                     | 5                      |         |      |         | 3       |                  |             |                  |
| 09-Jun-2022 | Thursday            | large swells               | 3                      |         |      |         |         | 2                | 0740        | 2                |
| 10-Jun-2022 | Friday              | choppy                     | 8                      |         |      |         | 3       | 8                | 1016        | 8                |
| 11-Jun-2022 | Saturday            | choppy                     | 4                      |         |      |         | 1       | 0                | 0927        | 0                |
| 12-Jun-2022 | Sunday              | choppy                     | 8                      |         |      |         |         | 2                | 0845        | 4                |
| 13-Jun-2022 | Monday              | large swells               | 1                      |         |      |         |         | 0                | 0833        | 0                |
| 14-Jun-2022 | Tuesday             | frequent whitecaps         | 5                      |         |      |         |         |                  |             |                  |
| 15-Jun-2022 | Wednesday           | calm/rippled               | 4                      |         |      |         |         |                  |             |                  |
| 16-Jun-2022 | Thursday            | calm/rippled               | 13                     |         |      |         |         |                  |             |                  |
| 17-Jun-2022 | Friday              | choppy                     | 13                     |         |      |         |         | 9                | 0936        | 9                |
| 18-Jun-2022 | Saturday            | choppy                     | 6                      |         |      |         |         | 4                | 0842        | 6                |
| 19-Jun-2022 | Sunday              | choppy                     | 6                      |         |      |         |         | 7                | 0953        | 9                |
| 20-Jun-2022 | Monday              | calm/rippled               | 4                      |         |      |         |         |                  |             |                  |
| 21-Jun-2022 | Tuesday             | calm/rippled               | 1                      |         |      |         |         |                  |             |                  |
| 22-Jun-2022 | Wednesday           | frequent whitecaps         | 4                      |         |      |         |         |                  |             |                  |
| 23-Jun-2022 | Thursday            | calm/rippled               | 8                      |         |      |         | 1       | 10               | 0842        | 11               |
| 24-Jun-2022 | Friday              | calm/rippled               | 5                      |         |      |         |         | 10               | 0931        | 11               |
| 25-Jun-2022 | Saturday            | choppy                     | 32                     |         |      |         |         | 32               | 0913        | 41               |
| 26-Jun-2022 | Sunday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 27-Jun-2022 | Monday              | choppy                     | 8                      |         |      |         |         |                  |             |                  |
| 28-Jun-2022 | Tuesday             |                            | 0                      |         |      |         |         | 3                | 0850        | 3                |
| 29-Jun-2022 | Wednesday           | calm/rippled               | 10                     |         |      |         | 4       |                  |             |                  |
| 30-Jun-2022 | Thursday            | choppy                     | 6                      |         |      |         |         |                  |             |                  |
| 01-Jul-2022 | Friday (Canada Day) | choppy                     | 21                     |         |      |         |         | 17               | 0912        | 22               |
| 02-Jul-2022 | Saturday            | calm/rippled               | 12                     |         |      |         |         | 20               | 0939        | 26               |
| 03-Jul-2022 | Sunday              | choppy                     | 12                     |         |      |         |         |                  |             |                  |
|             | Totals              | choppy                     | 100                    |         |      |         | 11      | 6*               |             | 6*               |
|             | Totals              | choppy                     | 56                     |         |      |         | 1       | 9*               |             | 12*              |

\* 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  | 6                      | 22             | 132                    |         |      |         | 0.11    |          |      |         | 15      |
| Weekend  | 12                     | 8              | 96                     |         |      |         | 0.018   |          |      |         | 2       |

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

| Year     | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-------|--------------|--------------|-----------|--------------|--------------|
| 2017     | June  | 415          | 240          |           |              |              |
| 2018     | June  | 622          | 659          | 9         |              | 4            |
| 2019     | June  | 237          | 0            | 19        |              | 46           |
| 2020     | June  | 124          | 17           | 45        |              | 25           |
| 2021     | June  | 194          | 0            | 27        |              | 20           |
| 2022     | June  | 269          | 0            | 0         |              | 79           |
| 5-Yr Avg | June  | 318          | 183          | 25        |              | 24           |

**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    | 1243               | 97%             | 4%                    | 456               | 97%            | 12%                  | 54                    |
| Chinook | 150                | 100%            | 68%                   | 185               | 93%            | 55%                  | 102                   |

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 357                      | 27%               |
| iRec Anglers     | 226                      | 38%               |
| iRec Anglers     | 1655                     | 30%               |

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

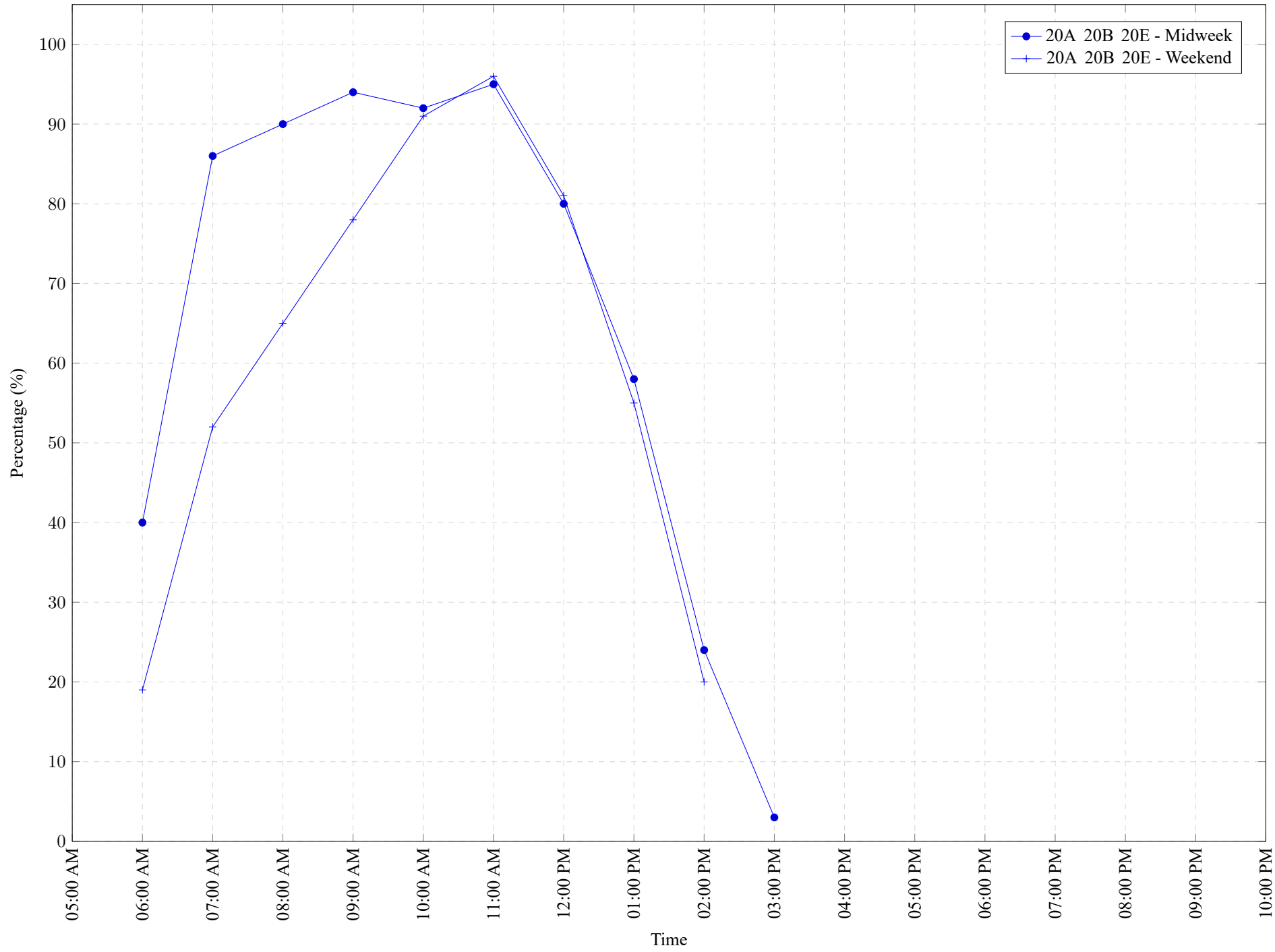


Table 7: Proportion of each day's fishing by hour.

| 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 |
|-------|-----|-----|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 20A   | 20B | 20E | Midweek  | 40%     | 86%     | 90%     | 94%     | 92%      | 95%      | 80%      | 58%      | 24%      | 3%       | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       |
| 20A   | 20B | 20E | Weekend  | 19%     | 52%     | 65%     | 78%     | 91%      | 96%      | 81%      | 55%      | 20%      | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | McKay Bay<br>Gas Dock | Pacific<br>Gateway<br>Marina | Port<br>Renfrew<br>Marina |
|-------------|----------|-----------------------|------------------------------|---------------------------|
| 29 May 2022 | Weekend  |                       |                              |                           |
| 30 May 2022 | Midweek  |                       |                              |                           |
| 31 May 2022 | Midweek  |                       |                              |                           |
| 01 Jun 2022 | Midweek  |                       |                              |                           |
| 02 Jun 2022 | Midweek  |                       |                              |                           |
| 03 Jun 2022 | Midweek  |                       |                              |                           |
| 04 Jun 2022 | Weekend  |                       |                              |                           |
| 05 Jun 2022 | Weekend  |                       |                              |                           |
| 06 Jun 2022 | Midweek  |                       |                              |                           |
| 07 Jun 2022 | Midweek  |                       | choppy                       |                           |
| 08 Jun 2022 | Midweek  |                       | choppy                       |                           |
| 09 Jun 2022 | Midweek  |                       | large swells                 |                           |
| 10 Jun 2022 | Midweek  |                       | choppy                       |                           |
| 11 Jun 2022 | Weekend  |                       | choppy                       |                           |
| 12 Jun 2022 | Weekend  |                       | choppy                       |                           |
| 13 Jun 2022 | Midweek  |                       |                              | large swells              |
| 14 Jun 2022 | Midweek  |                       | frequent<br>whitecaps        |                           |
| 15 Jun 2022 | Midweek  |                       |                              | calm/rippled              |
| 16 Jun 2022 | Midweek  |                       | calm/rippled                 | calm/rippled              |
| 17 Jun 2022 | Midweek  |                       | frequent<br>whitecaps        | calm/rippled              |
| 18 Jun 2022 | Weekend  |                       | choppy                       |                           |
| 19 Jun 2022 | Weekend  |                       | choppy                       | choppy                    |
| 20 Jun 2022 | Midweek  |                       | calm/rippled                 |                           |
| 21 Jun 2022 | Midweek  |                       | calm/rippled                 |                           |
| 22 Jun 2022 | Midweek  |                       |                              | frequent<br>whitecaps     |
| 23 Jun 2022 | Midweek  |                       |                              | calm/rippled              |
| 24 Jun 2022 | Midweek  |                       | calm/rippled                 |                           |
| 25 Jun 2022 | Weekend  |                       | choppy                       | choppy                    |
| 26 Jun 2022 | Weekend  |                       |                              |                           |
| 27 Jun 2022 | Midweek  |                       | choppy                       |                           |
| 28 Jun 2022 | Midweek  |                       |                              |                           |
| 29 Jun 2022 | Midweek  | choppy                | calm/rippled                 |                           |
| 30 Jun 2022 | Midweek  |                       |                              | calm/rippled              |
| 01 Jul 2022 | Weekend  |                       |                              | choppy                    |
| 02 Jul 2022 | Weekend  |                       | calm/rippled                 |                           |
| 03 Jul 2022 | Weekend  |                       |                              | choppy                    |