

# FISHERIES AND OCEANS CANADA

## SOUTH COAST ASSESSMENT BULLETIN

### CREEL SURVEY DATA REVIEW PACKAGE

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## Area 19 (GS) April 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



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

| Date        | Day Type | Cattle<br>Point<br>PM | Sidney |    |
|-------------|----------|-----------------------|--------|----|
|             |          |                       | AM     | PM |
| 29 Mar 2019 | Midweek  |                       |        |    |
| 30 Mar 2019 | Weekend  |                       |        |    |
| 31 Mar 2019 | Weekend  |                       |        |    |
| 01 Apr 2019 | Midweek  |                       |        | 5  |
| 02 Apr 2019 | Midweek  |                       |        |    |
| 03 Apr 2019 | Midweek  |                       |        |    |
| 04 Apr 2019 | Midweek  |                       |        |    |
| 05 Apr 2019 | Midweek  |                       |        |    |
| 06 Apr 2019 | Weekend  |                       |        |    |
| 07 Apr 2019 | Weekend  |                       |        |    |
| 08 Apr 2019 | Midweek  |                       |        |    |
| 09 Apr 2019 | Midweek  |                       |        |    |
| 10 Apr 2019 | Midweek  |                       |        |    |
| 11 Apr 2019 | Midweek  |                       |        |    |
| 12 Apr 2019 | Midweek  |                       |        |    |
| 13 Apr 2019 | Weekend  |                       |        |    |
| 14 Apr 2019 | Weekend  |                       |        |    |
| 15 Apr 2019 | Midweek  |                       |        |    |
| 16 Apr 2019 | Midweek  |                       |        |    |
| 17 Apr 2019 | Midweek  |                       |        |    |
| 18 Apr 2019 | Midweek  |                       |        |    |
| 19 Apr 2019 | Weekend  |                       |        |    |
| 20 Apr 2019 | Weekend  |                       |        |    |
| 21 Apr 2019 | Weekend  |                       |        |    |
| 22 Apr 2019 | Midweek  |                       |        |    |
| 23 Apr 2019 | Midweek  |                       |        |    |
| 24 Apr 2019 | Midweek  |                       |        |    |
| 25 Apr 2019 | Midweek  |                       |        |    |
| 26 Apr 2019 | Midweek  |                       |        |    |
| 27 Apr 2019 | Weekend  |                       |        | 10 |
| 28 Apr 2019 | Weekend  |                       |        |    |
| 29 Apr 2019 | Midweek  | 1                     |        |    |
| 30 Apr 2019 | Midweek  |                       |        |    |
| 01 May 2019 | Midweek  |                       |        |    |
| 02 May 2019 | Midweek  |                       |        |    |
| 03 May 2019 | 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 |
|-------------|----------------------|----------------------------|------------------------|---------|------|---------|---------|------------------|-------------|------------------|
| 29-Mar-2019 | Friday               |                            | 1                      | 1       |      |         |         |                  |             |                  |
| 30-Mar-2019 | Saturday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 31-Mar-2019 | Sunday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 01-Apr-2019 | Monday               | calm/rippled               | 5                      |         |      |         |         |                  |             |                  |
| 02-Apr-2019 | Tuesday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 03-Apr-2019 | Wednesday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 04-Apr-2019 | Thursday             |                            | 0                      |         |      |         |         | 7                | 1120        | 13               |
| 05-Apr-2019 | Friday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 06-Apr-2019 | Saturday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 07-Apr-2019 | Sunday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 08-Apr-2019 | Monday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 09-Apr-2019 | Tuesday              |                            | 2                      |         |      |         |         |                  |             |                  |
| 10-Apr-2019 | Wednesday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 11-Apr-2019 | Thursday             |                            | 1                      |         |      |         |         | 3                | 1129        | 6                |
| 12-Apr-2019 | Friday               |                            | 1                      |         |      |         |         |                  |             |                  |
| 13-Apr-2019 | Saturday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 14-Apr-2019 | Sunday               |                            | 0                      |         |      |         |         | 15               | 1126        | 15               |
| 15-Apr-2019 | Monday               |                            | 2                      | 6       |      |         |         |                  |             |                  |
| 16-Apr-2019 | Tuesday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 17-Apr-2019 | Wednesday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 18-Apr-2019 | Thursday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 19-Apr-2019 | Friday (Good Friday) |                            | 0                      |         |      |         |         |                  |             |                  |
| 20-Apr-2019 | Saturday             |                            | 0                      |         |      |         |         | 4                | 1121        | 4                |
| 21-Apr-2019 | Sunday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 22-Apr-2019 | Monday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 23-Apr-2019 | Tuesday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 24-Apr-2019 | Wednesday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 25-Apr-2019 | Thursday             |                            | 0                      |         |      |         |         | 1                | 1122        | 2                |
| 26-Apr-2019 | Friday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 27-Apr-2019 | Saturday             | choppy                     | 10                     |         |      |         |         | 21               | 1118        | 21               |
| 28-Apr-2019 | Sunday               |                            | 0                      |         |      |         |         |                  |             |                  |
| 29-Apr-2019 | Monday               | choppy                     | 1                      |         |      |         |         |                  |             |                  |
| 30-Apr-2019 | Tuesday              |                            | 0                      |         |      |         |         |                  |             |                  |
| 01-May-2019 | Wednesday            |                            | 0                      |         |      |         |         |                  |             |                  |
| 02-May-2019 | Thursday             |                            | 0                      |         |      |         |         |                  |             |                  |
| 03-May-2019 | Friday               | calm/rippled               | 1                      |         |      |         |         |                  |             |                  |
|             | Totals               | choppy                     | 12                     | 6       |      |         |         | 4*               |             | 7*               |
|             | Totals               | choppy                     | 10                     |         |      |         |         | 13*              |             | 13*              |

\* 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  | 13                     | 9              | 117                    |         |      |         |         |          |      |         |         |
| Midweek  | 7                      | 21             | 147                    | 0.50    |      |         |         | 74       |      |         |         |

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

| Year     | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-------|--------------|--------------|-----------|--------------|--------------|
| 2014     | April | 385          | 35           |           |              | 15           |
| 2015     | April | 645          | 94           |           |              | 115          |
| 2016     | April | 702          | 232          |           |              |              |
| 2017     | April | 560          | 75           |           |              |              |
| 2018     | April | 373          | 21           |           |              |              |
| 2019     | April | 263          | 3            |           |              | 0            |
| 5-Yr Avg | April | 533          | 91           |           |              | 65           |

**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 |
|---------|--------------------|-----------------|-----------------------|-------------------|----------------|----------------------|-----------------------|
|---------|--------------------|-----------------|-----------------------|-------------------|----------------|----------------------|-----------------------|

**Table 6: Guided Proprtions Review.**

| Data Source      | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 21                       | 2%                |
| iRec Anglers     | 133                      | 0%                |
| iRec Responses   | 8                        | 0%                |

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

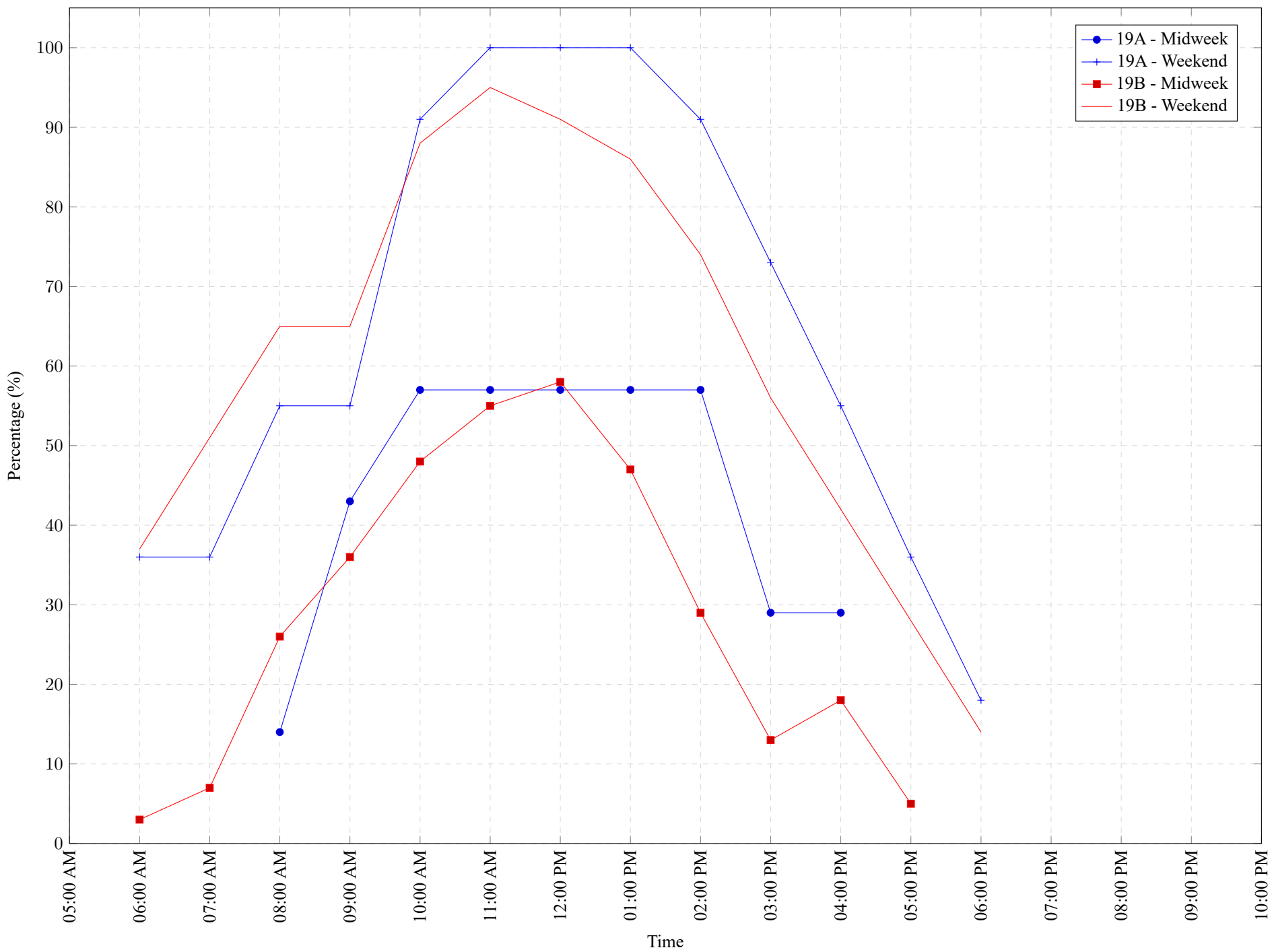


Table 7: Proportion of each day's fishing by hour.

| 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 |
|-------|----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 19A   | Midweek  | 0%         | 0%         | 14%        | 43%        | 57%         | 57%         | 57%         | 57%         | 57%         | 29%         | 29%         | 0%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 19A   | Weekend  | 36%        | 36%        | 55%        | 55%        | 91%         | 100%        | 100%        | 100%        | 91%         | 73%         | 55%         | 36%         | 18%         | 0%          | 0%          | 0%          | 0%          |
| 19B   | Midweek  | 3%         | 7%         | 26%        | 36%        | 48%         | 55%         | 58%         | 47%         | 29%         | 13%         | 18%         | 5%          | 0%          | 0%          | 0%          | 0%          | 0%          |
| 19B   | Weekend  | 37%        | 51%        | 65%        | 65%        | 88%         | 95%         | 91%         | 86%         | 74%         | 56%         | 42%         | 28%         | 14%         | 0%          | 0%          | 0%          | 0%          |

**Table 8: Daily Fishing Conditions.**

| Date        | Day Type | Cattle Point | Sidney       |
|-------------|----------|--------------|--------------|
| 29 Mar 2019 | Midweek  |              |              |
| 30 Mar 2019 | Weekend  |              |              |
| 31 Mar 2019 | Weekend  |              |              |
| 01 Apr 2019 | Midweek  |              | calm/rippled |
| 02 Apr 2019 | Midweek  |              |              |
| 03 Apr 2019 | Midweek  |              |              |
| 04 Apr 2019 | Midweek  |              |              |
| 05 Apr 2019 | Midweek  |              |              |
| 06 Apr 2019 | Weekend  |              |              |
| 07 Apr 2019 | Weekend  |              |              |
| 08 Apr 2019 | Midweek  |              |              |
| 09 Apr 2019 | Midweek  |              |              |
| 10 Apr 2019 | Midweek  |              |              |
| 11 Apr 2019 | Midweek  |              |              |
| 12 Apr 2019 | Midweek  |              |              |
| 13 Apr 2019 | Weekend  |              |              |
| 14 Apr 2019 | Weekend  |              |              |
| 15 Apr 2019 | Midweek  |              |              |
| 16 Apr 2019 | Midweek  |              |              |
| 17 Apr 2019 | Midweek  |              |              |
| 18 Apr 2019 | Midweek  |              |              |
| 19 Apr 2019 | Weekend  |              |              |
| 20 Apr 2019 | Weekend  |              |              |
| 21 Apr 2019 | Weekend  |              |              |
| 22 Apr 2019 | Midweek  |              |              |
| 23 Apr 2019 | Midweek  |              |              |
| 24 Apr 2019 | Midweek  |              |              |
| 25 Apr 2019 | Midweek  |              |              |
| 26 Apr 2019 | Midweek  |              |              |
| 27 Apr 2019 | Weekend  |              | choppy       |
| 28 Apr 2019 | Weekend  |              |              |
| 29 Apr 2019 | Midweek  | choppy       |              |
| 30 Apr 2019 | Midweek  |              |              |
| 01 May 2019 | Midweek  |              |              |
| 02 May 2019 | Midweek  |              |              |
| 03 May 2019 | Midweek  |              | calm/rippled |