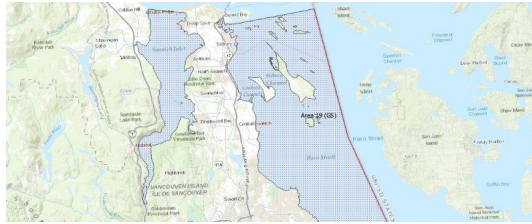


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 19 (GS) August 2021



Prepared By:
South Coast Salmon Stock Assessment Section

Thursday 10th February, 2022



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 Point | | Cowichan Bay PM | Mill Bay | | Sidney | |
|-------------|----------|--------------|----|--------------------|----------|----|--------|----|
| | | AM | PM | | AM | PM | AM | PM |
| 29 Jul 2021 | Midweek | | | | | | | |
| 30 Jul 2021 | Midweek | | | | | | | |
| 31 Jul 2021 | Weekend | | | | | | | |
| 01 Aug 2021 | Weekend | | | | 4 | | 10 | |
| 02 Aug 2021 | Weekend | | | | | | | |
| 03 Aug 2021 | Midweek | | | | | | | |
| 04 Aug 2021 | Midweek | | | | | | | |
| 05 Aug 2021 | Midweek | | | | | | | |
| 06 Aug 2021 | Midweek | | | | | | | 3 |
| 07 Aug 2021 | Weekend | | | 1 | | 3 | | |
| 08 Aug 2021 | Weekend | | | | | | | 14 |
| 09 Aug 2021 | Midweek | | | | | | | |
| 10 Aug 2021 | Midweek | | | | | | 4 | |
| 11 Aug 2021 | Midweek | | | | | 4 | | |
| 12 Aug 2021 | Midweek | | | | | | | |
| 13 Aug 2021 | Midweek | 1 | | | | | | 4 |
| 14 Aug 2021 | Weekend | | | | | | | |
| 15 Aug 2021 | Weekend | | | 2 | | | 16 | |
| 16 Aug 2021 | Midweek | | | | | | 6 | |
| 17 Aug 2021 | Midweek | | | | | 2 | | |
| 18 Aug 2021 | Midweek | | | | | | | |
| 19 Aug 2021 | Midweek | | | | | | | 2 |
| 20 Aug 2021 | Midweek | | | | | | | |
| 21 Aug 2021 | Weekend | | | | | | | 8 |
| 22 Aug 2021 | Weekend | | | | 5 | | | |
| 23 Aug 2021 | Midweek | | | | 3 | | | |
| 24 Aug 2021 | Midweek | | | | | | | |
| 25 Aug 2021 | Midweek | | | | | | | |
| 26 Aug 2021 | Midweek | | | | | | | |
| 27 Aug 2021 | Midweek | | | | 6 | | | |
| 28 Aug 2021 | Weekend | | 1 | | | 4 | | |
| 29 Aug 2021 | Weekend | 2 | | | | | | |
| 30 Aug 2021 | Midweek | | | | | 2 | | |
| 31 Aug 2021 | Midweek | | | | | | | |
| 01 Sep 2021 | Midweek | | 1 | | | | | |
| 02 Sep 2021 | Midweek | | | | | | | |
| 03 Sep 2021 | 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-Jul-2021 | Thursday | | 0 | | | | | | | |
| 30-Jul-2021 | Friday | | 0 | | | | | | | |
| 31-Jul-2021 | Saturday | | 0 | | | | | | | |
| 01-Aug-2021 | Sunday | calm/rippled | 14 | 3 | | | | | | |
| 02-Aug-2021 | Monday (B.C. Day) | | 0 | | | | | | | |
| 03-Aug-2021 | Tuesday | | 0 | | | | | 5 | 0836 | 18 |
| 04-Aug-2021 | Wednesday | | 0 | | | | | | | |
| 05-Aug-2021 | Thursday | | 0 | | | | | 8 | 0837 | 21 |
| 06-Aug-2021 | Friday | calm/rippled | 3 | | | | | | | |
| 07-Aug-2021 | Saturday | choppy | 4 | | | | | 3 | 0834 | 7 |
| 08-Aug-2021 | Sunday | frequent whitecaps | 14 | 2 | | | | 6 | 0839 | 14 |
| 09-Aug-2021 | Monday | | 0 | | | | | 6 | 0852 | 16 |
| 10-Aug-2021 | Tuesday | calm/rippled | 4 | | | | | | | |
| 11-Aug-2021 | Wednesday | calm/rippled | 4 | | | | | | | |
| 12-Aug-2021 | Thursday | | 0 | | | | | | | |
| 13-Aug-2021 | Friday | calm/rippled | 5 | 1 | | | | | | |
| 14-Aug-2021 | Saturday | | 0 | | | | | 10 | 0846 | 23 |
| 15-Aug-2021 | Sunday | choppy | 18 | | | | | | | |
| 16-Aug-2021 | Monday | calm/rippled | 6 | 1 | | | | 6 | 0835 | 16 |
| 17-Aug-2021 | Tuesday | choppy | 2 | | | | | | | |
| 18-Aug-2021 | Wednesday | | 0 | | | | | 11 | 0939 | 28 |
| 19-Aug-2021 | Thursday | choppy | 2 | | | | | | | |
| 20-Aug-2021 | Friday | | 0 | | | | | | | |
| 21-Aug-2021 | Saturday | choppy | 8 | | | | | | | |
| 22-Aug-2021 | Sunday | choppy | 5 | | | | | 8 | 0846 | 18 |
| 23-Aug-2021 | Monday | calm/rippled | 3 | | | | | | | |
| 24-Aug-2021 | Tuesday | | 0 | | | | | 4 | 0842 | 11 |
| 25-Aug-2021 | Wednesday | | 0 | | | | | | | |
| 26-Aug-2021 | Thursday | | 0 | | | | | | | |
| 27-Aug-2021 | Friday | calm/rippled | 6 | | | | | | | |
| 28-Aug-2021 | Saturday | choppy | 5 | 1 | | | | 10 | 0826 | 26 |
| 29-Aug-2021 | Sunday | calm/rippled | 2 | | | | | | | |
| 30-Aug-2021 | Monday | frequent whitecaps | 2 | | | | | 3 | 0852 | 8 |
| 31-Aug-2021 | Tuesday | | 0 | | | | | | | |
| 01-Sep-2021 | Wednesday | choppy | 1 | | | | | | | |
| 02-Sep-2021 | Thursday | | 0 | | | | | | | |
| 03-Sep-2021 | Friday | | 0 | | | | | | | |
| | Totals | calm/rippled | 37 | 2 | | | | 6* | | 17* |
| | Totals | choppy | 70 | 6 | | | | 7* | | 18* |

* 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 | 18 | 10 | 180 | 0.086 | | | | 15 | | | |
| Midweek | 17 | 21 | 357 | 0.054 | | | | 19 | | | |

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

| Year | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|--------|--------------|--------------|-----------|--------------|--------------|
| 2016 | August | 396 | | | | |
| 2017 | August | 430 | 69 | | | |
| 2018 | August | 645 | 134 | | | |
| 2019 | August | 784 | 264 | | | 0 |
| 2020 | August | 638 | 1 | | | 0 |
| 2021 | August | 501 | 69 | 0 | | 0 |
| 5-Yr Avg | August | 579 | 117 | | | 0 |

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 | 107 | 0% |
| iRec Anglers | 649 | 17% |

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

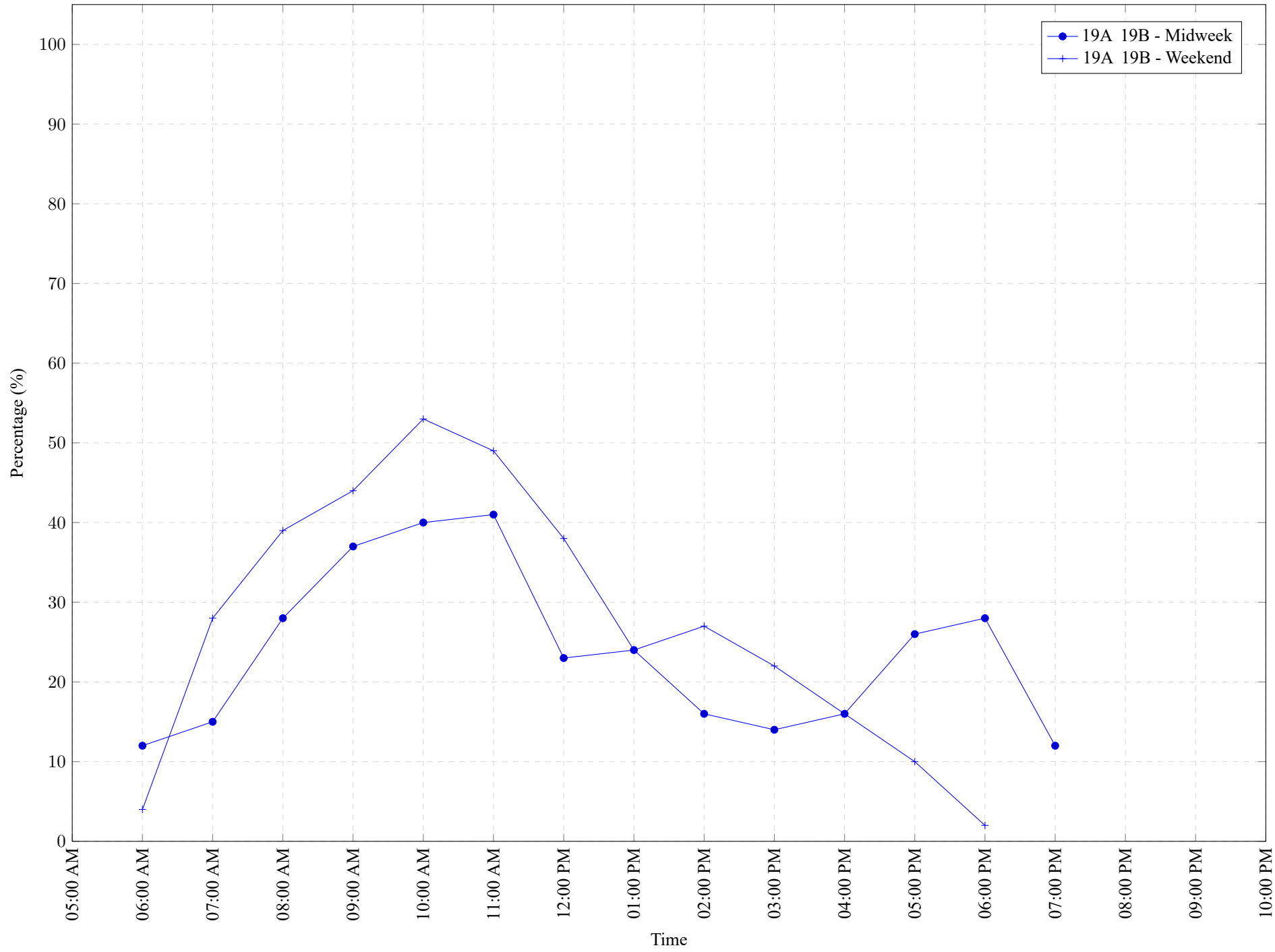


Table 7: Proportion of each day's fishing by hour.

| 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 |
|-------|-----|----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 19A | 19B | Midweek | 12% | 15% | 28% | 37% | 40% | 41% | 23% | 24% | 16% | 14% | 16% | 26% | 28% | 12% | 0% | 0% | 0% |
| 19A | 19B | Weekend | 4% | 28% | 39% | 44% | 53% | 49% | 38% | 24% | 27% | 22% | 16% | 10% | 2% | 0% | 0% | 0% | 0% |

Table 8: Daily Fishing Conditions.

| Date | Day Type | Cattle Point | Cowichan Bay | Mill Bay | Sidney |
|-------------|----------|--------------|--------------|--------------------|--------------------|
| 29 Jul 2021 | Midweek | | | | |
| 30 Jul 2021 | Midweek | | | | |
| 31 Jul 2021 | Weekend | | | | |
| 01 Aug 2021 | Weekend | | | calm/rippled | calm/rippled |
| 02 Aug 2021 | Weekend | | | | |
| 03 Aug 2021 | Midweek | | | | |
| 04 Aug 2021 | Midweek | | | | |
| 05 Aug 2021 | Midweek | | | | |
| 06 Aug 2021 | Midweek | | | | calm/rippled |
| 07 Aug 2021 | Weekend | | choppy | choppy | |
| 08 Aug 2021 | Weekend | | | | frequent whitecaps |
| 09 Aug 2021 | Midweek | | | | |
| 10 Aug 2021 | Midweek | | | | calm/rippled |
| 11 Aug 2021 | Midweek | | | calm/rippled | |
| 12 Aug 2021 | Midweek | | | | |
| 13 Aug 2021 | Midweek | calm/rippled | | | calm/rippled |
| 14 Aug 2021 | Weekend | | | | |
| 15 Aug 2021 | Weekend | | choppy | | choppy |
| 16 Aug 2021 | Midweek | | | | calm/rippled |
| 17 Aug 2021 | Midweek | | | choppy | |
| 18 Aug 2021 | Midweek | | | | |
| 19 Aug 2021 | Midweek | | | | choppy |
| 20 Aug 2021 | Midweek | | | | |
| 21 Aug 2021 | Weekend | | | | choppy |
| 22 Aug 2021 | Weekend | | | choppy | |
| 23 Aug 2021 | Midweek | | | calm/rippled | |
| 24 Aug 2021 | Midweek | | | | |
| 25 Aug 2021 | Midweek | | | | |
| 26 Aug 2021 | Midweek | | | | |
| 27 Aug 2021 | Midweek | | | calm/rippled | |
| 28 Aug 2021 | Weekend | choppy | | choppy | |
| 29 Aug 2021 | Weekend | calm/rippled | | | |
| 30 Aug 2021 | Midweek | | | frequent whitecaps | |
| 31 Aug 2021 | Midweek | | | | |
| 01 Sep 2021 | Midweek | choppy | | | |
| 02 Sep 2021 | Midweek | | | | |
| 03 Sep 2021 | Midweek | | | | |