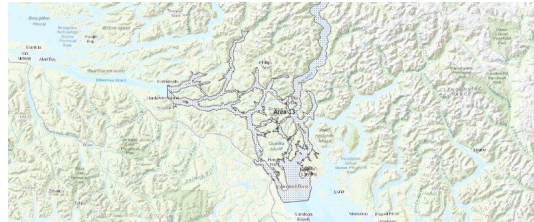


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 13 September 2019



Prepared By:

South Coast Salmon Stock Assessment Section

Thursday 27th 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 | Big Rock Boat Rental | | Brown's Bay | | Discovery Marina South | | Kitty Coleman | Pacific Play | | Painter's |
|-------------|----------|----------------------|----|-------------|----|------------------------|----|---------------|--------------|----|-----------|
| | | AM | PM | AM | PM | AM | PM | AM | AM | PM | MD |
| 29 Aug 2019 | Midweek | | | | | | | | | | |
| 30 Aug 2019 | Midweek | | | 17 | | 5 | | | | | |
| 31 Aug 2019 | Weekend | | | | | 4 | | | | | |
| 01 Sep 2019 | Weekend | | | | | | | | | | |
| 02 Sep 2019 | Weekend | | | | | | | 1 | | 5 | |
| 03 Sep 2019 | Midweek | | | | | | | | | 4 | 8 |
| 04 Sep 2019 | Midweek | | | | | 6 | | | | | |
| 05 Sep 2019 | Midweek | | | | | | | | | | |
| 06 Sep 2019 | Midweek | | | | | | | | | | |
| 07 Sep 2019 | Weekend | | | | | | | | | | |
| 08 Sep 2019 | Weekend | | 15 | | | | | | | | |
| 09 Sep 2019 | Midweek | | | | | | | | | | |
| 10 Sep 2019 | Midweek | | | | | | | | | | |
| 11 Sep 2019 | Midweek | | | | | | | | | | |
| 12 Sep 2019 | Midweek | | | | | | | | | | |
| 13 Sep 2019 | Midweek | | | | | | | | | | |
| 14 Sep 2019 | Weekend | | | | | | | | | | |
| 15 Sep 2019 | Weekend | | | | | | | | | | |
| 16 Sep 2019 | Midweek | | | | | | | | | | |
| 17 Sep 2019 | Midweek | | | 1 | | | | | | | |
| 18 Sep 2019 | Midweek | | | | | | | | | | 3 |
| 19 Sep 2019 | Midweek | 5 | | | | | | | | | |
| 20 Sep 2019 | Midweek | | | | | | | | 1 | | |
| 21 Sep 2019 | Weekend | | | | | 5 | | | | | |
| 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 | | | | | | 4 | | | | |
| 29 Sep 2019 | Weekend | | | | 5 | | | | | | |
| 30 Sep 2019 | Midweek | | | | | | 4 | | | | |
| 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 | | 10 | 8 | 5 | | | 169 | 1004 | 261 |
| 30-Aug-2019 | Friday | calm/rippled | 30 | 43 | 1 | | | | | |
| 31-Aug-2019 | Saturday | calm/rippled | 12 | 11 | | | | | | |
| 01-Sep-2019 | Sunday | | 13 | 21 | | | | 141 | 1206 | 319 |
| 02-Sep-2019 | Monday (Labour Day) | calm/rippled | 15 | 16 | 2 | | | | | |
| 03-Sep-2019 | Tuesday | calm/rippled | 20 | 33 | 3 | | | | | |
| 04-Sep-2019 | Wednesday | calm/rippled | 15 | 27 | 2 | | | | | |
| 05-Sep-2019 | Thursday | | 10 | 17 | | | | 132 | 1149 | 303 |
| 06-Sep-2019 | Friday | | 8 | 12 | | | | | | |
| 07-Sep-2019 | Saturday | | 12 | 13 | 1 | | | | | |
| 08-Sep-2019 | Sunday | calm/rippled | 23 | 19 | 1 | | | 126 | 1151 | 292 |
| 09-Sep-2019 | Monday | | 8 | 8 | | | | | | |
| 10-Sep-2019 | Tuesday | | 8 | 9 | 2 | | | | | |
| 11-Sep-2019 | Wednesday | | 4 | 8 | | | | | | |
| 12-Sep-2019 | Thursday | | 2 | 3 | 1 | | | 7 | 1148 | 14 |
| 13-Sep-2019 | Friday | | 2 | 1 | | | | | | |
| 14-Sep-2019 | Saturday | | 4 | 2 | | | | | | |
| 15-Sep-2019 | Sunday | | 3 | 5 | | | | | | |
| 16-Sep-2019 | Monday | | 1 | 1 | | | | | | |
| 17-Sep-2019 | Tuesday | frequent whitecaps | 3 | 3 | | | | | | |
| 18-Sep-2019 | Wednesday | calm/rippled | 5 | 5 | | | | | | |
| 19-Sep-2019 | Thursday | calm/rippled | 7 | | | | | | | |
| 20-Sep-2019 | Friday | calm/rippled | 2 | 4 | | | | | | |
| 21-Sep-2019 | Saturday | choppy | 7 | 6 | | | | 51 | 1156 | 121 |
| 22-Sep-2019 | Sunday | | 0 | | | | | | | |
| 23-Sep-2019 | Monday | | 0 | | | | | 7 | 1202 | 16 |
| 24-Sep-2019 | Tuesday | | 2 | 3 | | | | | | |
| 25-Sep-2019 | Wednesday | | 1 | | | | | | | |
| 26-Sep-2019 | Thursday | | 1 | 1 | | | | | | |
| 27-Sep-2019 | Friday | | 1 | 1 | | | | 9 | 1201 | 21 |
| 28-Sep-2019 | Saturday | choppy | 5 | 1 | | | | | | |
| 29-Sep-2019 | Sunday | calm/rippled | 7 | 2 | 1 | | | 54 | 1156 | 123 |
| 30-Sep-2019 | Monday | calm/rippled | 5 | 3 | | | | | | |
| 01-Oct-2019 | Tuesday | | 0 | | | | | | | |
| 02-Oct-2019 | Wednesday | | 0 | | | | | | | |
| 03-Oct-2019 | Thursday | | 1 | 1 | | | | | | |
| | Totals | calm/rippled | 105 | 139 | 8 | | | 39* | | 89* |
| | Totals | calm/rippled | 89 | 85 | 5 | | | 93* | | 214* |

* 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 | 89 | 20 | 1780 | 1.3240 | 0.0760 | | | 2357 | 135 | | |
| Weekend | 214 | 10 | 2140 | 0.9550 | 0.0560 | | | 2044 | 120 | | |

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

| Year | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|-----------|--------------|--------------|-----------|--------------|--------------|
| 2014 | September | 3886 | 2484 | 2453 | 1763 | 33 |
| 2015 | September | 5602 | 6147 | 4507 | 59 | |
| 2016 | September | 4880 | 1288 | 782 | | |
| 2017 | September | 6196 | 2208 | 580 | | |
| 2018 | September | 3288 | 1190 | 137 | 252 | |
| 2019 | September | 2845 | 2476 | 128 | | 0 |
| 5-Yr Avg | September | 4770 | 2663 | 1692 | 691 | 33 |

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 | 61 | 48% | 28% | 217 | 74% | 8% | 17 |
| Chinook | 327 | 13% | 16% | 306 | 20% | 17% | 51 |

Table 6: Guided Proprtions Review.

| Data Source | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 190 | 25% |
| iRec Anglers | 4858 | 32% |
| iRec Responses | 121 | 32% |

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

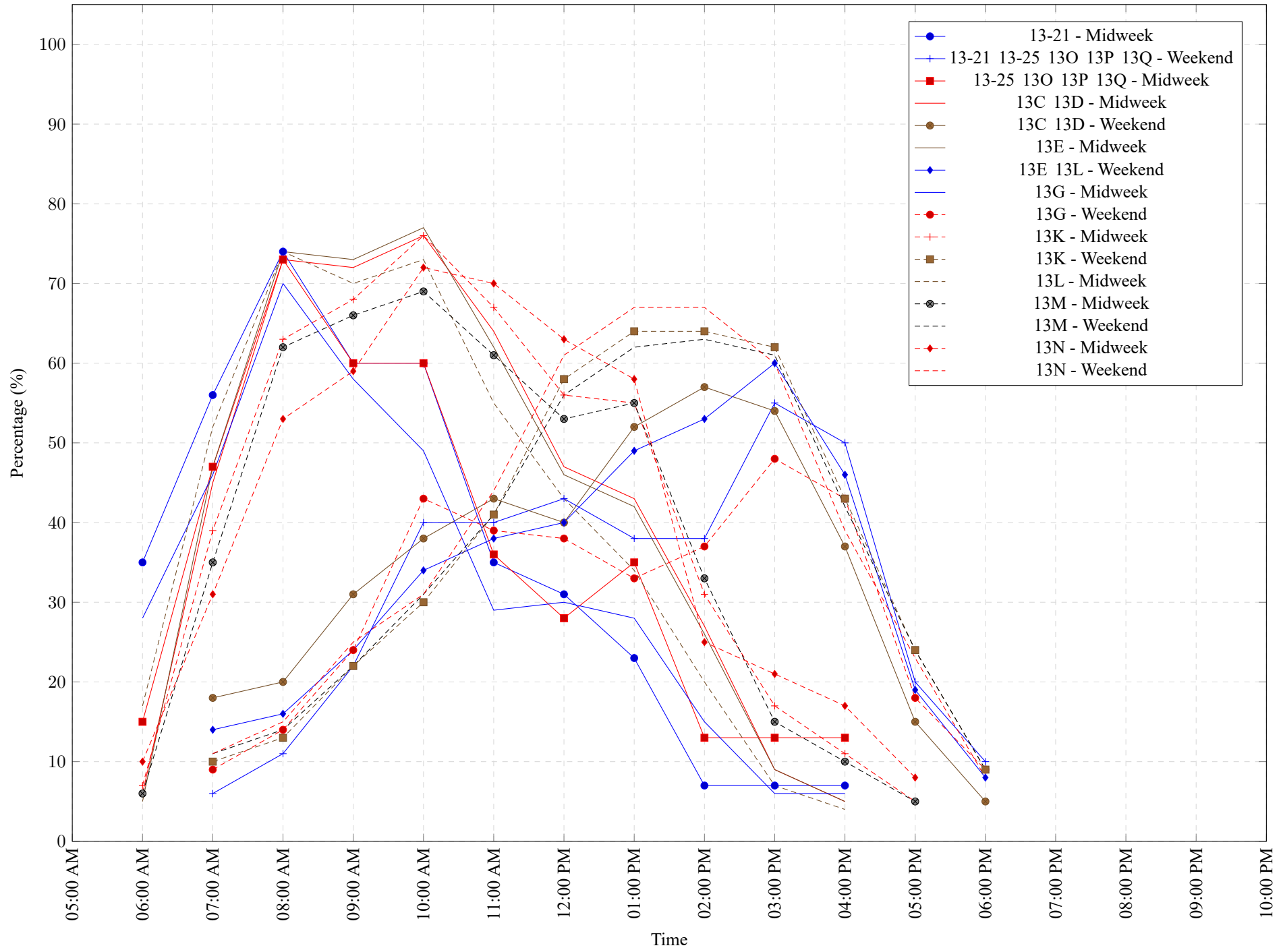


Table 7: Proportion of each day's fishing by hour.

| 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 |
|-------------------------|----------|---------|---------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 13-21 | Midweek | 35% | 56% | 74% | 60% | 60% | 35% | 31% | 23% | 7% | 7% | 7% | 0% | 0% | 0% | 0% | 0% | 0% |
| 13-21 13-25 13O 13P 13Q | Weekend | 0% | 6% | 11% | 22% | 40% | 40% | 43% | 38% | 38% | 55% | 50% | 20% | 10% | 0% | 0% | 0% | 0% |
| 13-25 13O 13P 13Q | Midweek | 15% | 47% | 73% | 60% | 60% | 36% | 28% | 35% | 13% | 13% | 13% | 0% | 0% | 0% | 0% | 0% | 0% |
| 13C 13D | Midweek | 6% | 45% | 73% | 72% | 76% | 64% | 47% | 43% | 27% | 9% | 5% | 0% | 0% | 0% | 0% | 0% | 0% |
| 13C 13D | Weekend | 0% | 18% | 20% | 31% | 38% | 43% | 40% | 52% | 57% | 54% | 37% | 15% | 5% | 0% | 0% | 0% | 0% |
| 13E | Midweek | 5% | 47% | 74% | 73% | 77% | 62% | 46% | 42% | 26% | 9% | 5% | 0% | 0% | 0% | 0% | 0% | 0% |
| 13E 13L | Weekend | 0% | 14% | 16% | 24% | 34% | 38% | 40% | 49% | 53% | 60% | 46% | 19% | 8% | 0% | 0% | 0% | 0% |
| 13G | Midweek | 28% | 46% | 70% | 58% | 49% | 29% | 30% | 28% | 15% | 6% | 6% | 0% | 0% | 0% | 0% | 0% | 0% |
| 13G | Weekend | 0% | 9% | 14% | 24% | 43% | 39% | 38% | 33% | 37% | 48% | 43% | 18% | 9% | 0% | 0% | 0% | 0% |
| 13K | Midweek | 7% | 39% | 63% | 68% | 76% | 67% | 56% | 55% | 31% | 17% | 11% | 5% | 0% | 0% | 0% | 0% | 0% |
| 13K | Weekend | 0% | 10% | 13% | 22% | 30% | 41% | 58% | 64% | 64% | 62% | 43% | 24% | 9% | 0% | 0% | 0% | 0% |
| 13L | Midweek | 17% | 52% | 74% | 70% | 73% | 55% | 43% | 34% | 20% | 7% | 4% | 0% | 0% | 0% | 0% | 0% | 0% |
| 13M | Midweek | 6% | 35% | 62% | 66% | 69% | 61% | 53% | 55% | 33% | 15% | 10% | 5% | 0% | 0% | 0% | 0% | 0% |
| 13M | Weekend | 0% | 11% | 14% | 22% | 31% | 41% | 56% | 62% | 63% | 61% | 42% | 24% | 9% | 0% | 0% | 0% | 0% |
| 13N | Midweek | 10% | 31% | 53% | 59% | 72% | 70% | 63% | 58% | 25% | 21% | 17% | 8% | 0% | 0% | 0% | 0% | 0% |
| 13N | Weekend | 0% | 11% | 15% | 25% | 31% | 44% | 61% | 67% | 67% | 60% | 39% | 23% | 8% | 0% | 0% | 0% | 0% |

Table 8: Daily Fishing Conditions.

| Date | Day Type | Big Rock Boat Rental | Brown's Bay | Discovery Marina South | Kitty Coleman | Pacific Play | Painter's |
|-------------|----------|-------------------------|-----------------------|------------------------------|------------------|--------------|--------------|
| 29 Aug 2019 | Midweek | | | | | | |
| 30 Aug 2019 | Midweek | | calm/rippled | calm/rippled | | | |
| 31 Aug 2019 | Weekend | | | calm/rippled | | | |
| 01 Sep 2019 | Weekend | | | | | | |
| 02 Sep 2019 | Weekend | | | | calm/rippled | calm/rippled | |
| 03 Sep 2019 | Midweek | | | | | calm/rippled | calm/rippled |
| 04 Sep 2019 | Midweek | | | calm/rippled | | | |
| 05 Sep 2019 | Midweek | | | | | | |
| 06 Sep 2019 | Midweek | | | | | | |
| 07 Sep 2019 | Weekend | | | | | | |
| 08 Sep 2019 | Weekend | calm/rippled | | | | | |
| 09 Sep 2019 | Midweek | | | | | | |
| 10 Sep 2019 | Midweek | | | | | | |
| 11 Sep 2019 | Midweek | | | | | | |
| 12 Sep 2019 | Midweek | | | | | | |
| 13 Sep 2019 | Midweek | | | | | | |
| 14 Sep 2019 | Weekend | | | | | | |
| 15 Sep 2019 | Weekend | | | | | | |
| 16 Sep 2019 | Midweek | | | | | | |
| 17 Sep 2019 | Midweek | | frequent whitecaps | | | | |
| 18 Sep 2019 | Midweek | | | | | | calm/rippled |
| 19 Sep 2019 | Midweek | calm/rippled | | | | | |
| 20 Sep 2019 | Midweek | | | | | calm/rippled | |
| 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 | | | choppy | | | |
| 29 Sep 2019 | Weekend | | calm/rippled | | | | |
| 30 Sep 2019 | Midweek | | | calm/rippled | | | |
| 01 Oct 2019 | Midweek | | | | | | |
| 02 Oct 2019 | Midweek | | | | | | |
| 03 Oct 2019 | Midweek | | | | | | |