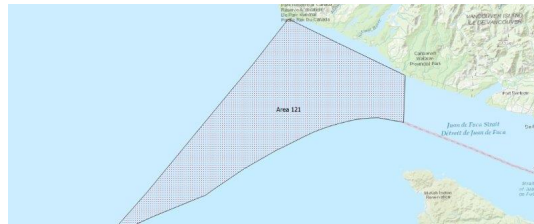


FISHERIES AND OCEANS CANADA

SOUTH COAST ASSESSMENT BULLETIN

CREEL SURVEY DATA REVIEW PACKAGE

Area 121 August 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 | Pacific Gateway Marina | | Port Renfrew Marina | |
|-------------|----------|------------------------|----|---------------------|----|
| | | MD | PM | MD | PM |
| 29 Jul 2019 | Midweek | 5 | | | |
| 30 Jul 2019 | Midweek | | | | |
| 31 Jul 2019 | Midweek | | | | |
| 01 Aug 2019 | Midweek | | | | |
| 02 Aug 2019 | Midweek | 4 | | | |
| 03 Aug 2019 | Weekend | | | | 3 |
| 04 Aug 2019 | Weekend | 14 | | | |
| 05 Aug 2019 | Weekend | | | | |
| 06 Aug 2019 | Midweek | 7 | | | |
| 07 Aug 2019 | Midweek | | | | |
| 08 Aug 2019 | Midweek | | | 1 | |
| 09 Aug 2019 | Midweek | 3 | | | |
| 10 Aug 2019 | Weekend | | | 1 | |
| 11 Aug 2019 | Weekend | | | | |
| 12 Aug 2019 | Midweek | | | 1 | |
| 13 Aug 2019 | Midweek | 6 | | | |
| 14 Aug 2019 | Midweek | | 2 | | |
| 15 Aug 2019 | Midweek | | | | |
| 16 Aug 2019 | Midweek | | | 1 | |
| 17 Aug 2019 | Weekend | | | | |
| 18 Aug 2019 | Weekend | | | | |
| 19 Aug 2019 | Midweek | 3 | | | |
| 20 Aug 2019 | Midweek | | | 1 | |
| 21 Aug 2019 | Midweek | | | | |
| 22 Aug 2019 | Midweek | 4 | | | |
| 23 Aug 2019 | Midweek | | | 2 | |
| 24 Aug 2019 | Weekend | | | | |
| 25 Aug 2019 | Weekend | 1 | | | |
| 26 Aug 2019 | Midweek | | | | |
| 27 Aug 2019 | Midweek | 3 | | | |
| 28 Aug 2019 | Midweek | | 3 | | |
| 29 Aug 2019 | Midweek | 2 | | | |
| 30 Aug 2019 | Midweek | | | | |
| 31 Aug 2019 | Weekend | 1 | | | |
| 01 Sep 2019 | Weekend | | | | |
| 02 Sep 2019 | Weekend | 3 | | | |
| 03 Sep 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-Jul-2019 | Monday | choppy | 5 | 5 | 24 | | 19 | | | |
| 30-Jul-2019 | Tuesday | | 0 | | | | | 21 | 0823 | 34 |
| 31-Jul-2019 | Wednesday | | 0 | | | | | | | |
| 01-Aug-2019 | Thursday | | 0 | | | | | | | |
| 02-Aug-2019 | Friday | calm/rippled | 4 | 9 | 8 | | 7 | | | |
| 03-Aug-2019 | Saturday | calm/rippled | 3 | 2 | | | 9 | | | |
| 04-Aug-2019 | Sunday | calm/rippled | 14 | 94 | 41 | | 31 | 38 | 0827 | 49 |
| 05-Aug-2019 | Monday (B.C. Day) | | 0 | | | | | | | |
| 06-Aug-2019 | Tuesday | calm/rippled | 7 | 6 | 33 | | 4 | | | |
| 07-Aug-2019 | Wednesday | | 0 | | | | | | | |
| 08-Aug-2019 | Thursday | calm/rippled | 1 | 1 | 4 | | | 21 | 0908 | 30 |
| 09-Aug-2019 | Friday | choppy | 3 | 7 | 24 | | 4 | | | |
| 10-Aug-2019 | Saturday | calm/rippled | 1 | | 3 | | 5 | 47 | 0820 | 61 |
| 11-Aug-2019 | Sunday | | 0 | | | | | | | |
| 12-Aug-2019 | Monday | calm/rippled | 1 | 5 | 4 | | | | | |
| 13-Aug-2019 | Tuesday | calm/rippled | 6 | 21 | 11 | | 11 | | | |
| 14-Aug-2019 | Wednesday | calm/rippled | 2 | 9 | 4 | | 2 | | | |
| 15-Aug-2019 | Thursday | | 0 | | | | | | | |
| 16-Aug-2019 | Friday | calm/rippled | 1 | | 8 | | 4 | 0 | 0823 | 0 |
| 17-Aug-2019 | Saturday | | 0 | | | | | 10 | 0822 | 13 |
| 18-Aug-2019 | Sunday | | 0 | | | | | | | |
| 19-Aug-2019 | Monday | calm/rippled | 3 | | 2 | | 6 | 5 | 0911 | 7 |
| 20-Aug-2019 | Tuesday | calm/rippled | 1 | | 3 | | 1 | | | |
| 21-Aug-2019 | Wednesday | | 0 | | | | | | | |
| 22-Aug-2019 | Thursday | calm/rippled | 4 | 1 | 18 | | 3 | | | |
| 23-Aug-2019 | Friday | calm/rippled | 2 | | 6 | | 1 | | | |
| 24-Aug-2019 | Saturday | | 0 | | | | | | | |
| 25-Aug-2019 | Sunday | calm/rippled | 1 | | | | 1 | | | |
| 26-Aug-2019 | Monday | | 0 | | | | | | | |
| 27-Aug-2019 | Tuesday | calm/rippled | 3 | | 15 | | 13 | | | |
| 28-Aug-2019 | Wednesday | calm/rippled | 3 | | 14 | | 1 | | | |
| 29-Aug-2019 | Thursday | calm/rippled | 2 | | 4 | | 1 | | | |
| 30-Aug-2019 | Friday | | 0 | | | | | | | |
| 31-Aug-2019 | Saturday | calm/rippled | 1 | | | | | 13 | 0835 | 17 |
| 01-Sep-2019 | Sunday | | 0 | | | | | | | |
| 02-Sep-2019 | Monday (Labour Day) | calm/rippled | 3 | | | | 1 | | | |
| 03-Sep-2019 | Tuesday | | 0 | | | | | | | |
| | Totals | calm/rippled | 43 | 59 | 158 | | 58 | 9* | | 12* |
| | Totals | calm/rippled | 20 | 96 | 44 | | 46 | 27* | | 35* |

* 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 | 35 | 10 | 350 | 4.80 | 2.20 | | 2.30 | 1680 | 770 | | 805 |
| Midweek | 12 | 21 | 252 | 1.3720 | 3.6740 | | 1.3490 | 346 | 926 | | 340 |

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

| Year | Month | Total Effort | Chinook Kept | Coho Kept | Sockeye Kept | Halibut Kept |
|----------|--------|--------------|--------------|-----------|--------------|--------------|
| 2014 | August | 663 | 2848 | 2198 | 5 | 777 |
| 2015 | August | 490 | 2159 | 402 | | 712 |
| 2016 | August | 653 | 2311 | 278 | | 695 |
| 2017 | August | 770 | 2464 | 2727 | | 827 |
| 2018 | August | 1102 | 1335 | 4451 | 724 | 2298 |
| 2019 | August | 609 | 1978 | 1698 | | 1130 |
| 5-Yr Avg | August | 736 | 2223 | 2011 | 365 | 1062 |

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 | 1698 | 100% | 5% | 1692 | 87% | 5% | 90 |
| Chinook | 523 | 47% | 9% | 769 | 55% | 6% | 46 |

Table 6: Guided Proprtions Review.

| Data Source | Interviews / Angler Days | Guided Proportion |
|------------------|--------------------------|-------------------|
| Creel Interivews | 76 | 72% |
| iRec Anglers | 1749 | 57% |
| iRec Responses | 50 | 44% |

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

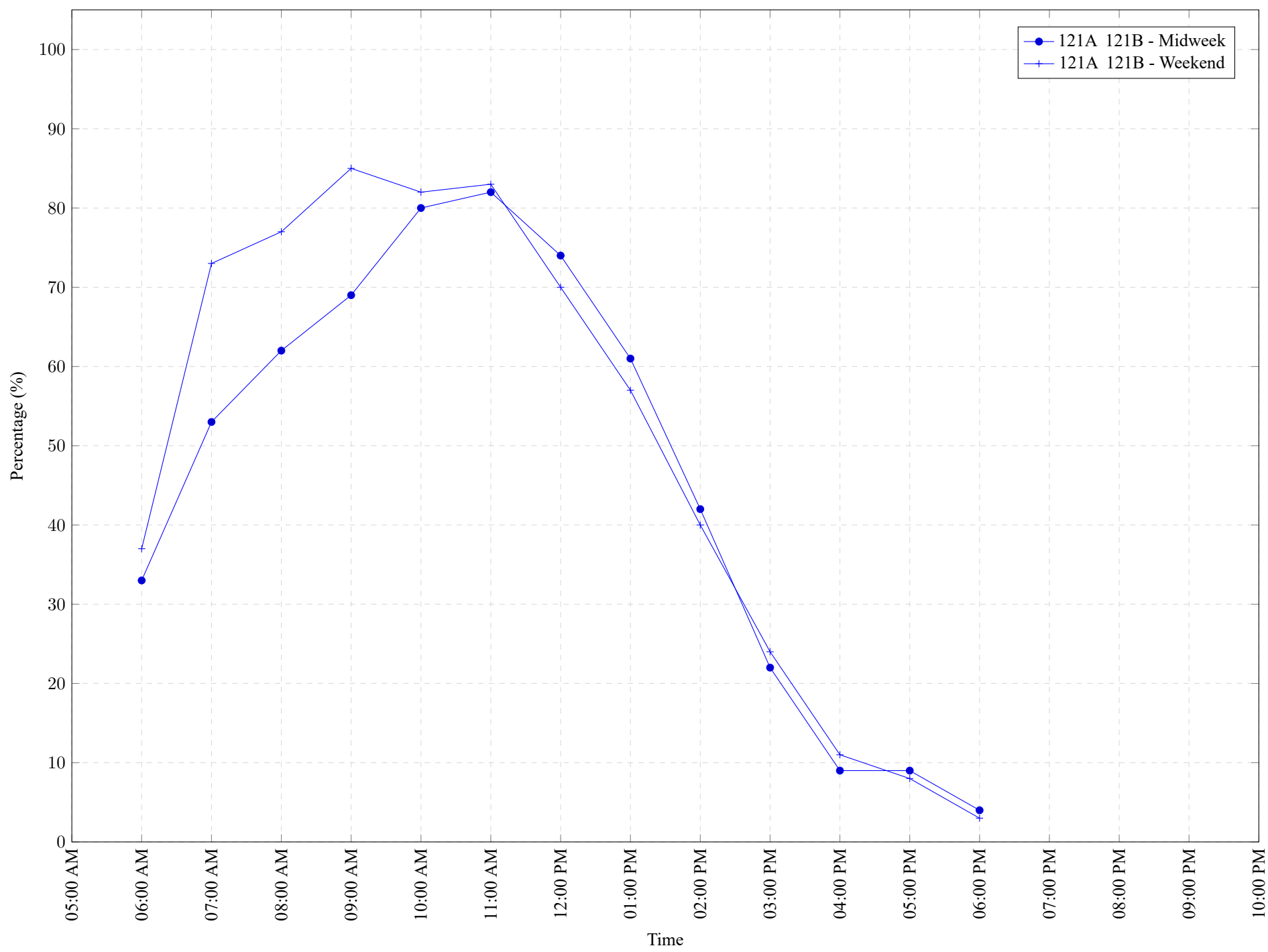


Table 7: Proportion of each day's fishing by hour.

| 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 |
|-------|------|----------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 121A | 121B | Midweek | 33% | 53% | 62% | 69% | 80% | 82% | 74% | 61% | 42% | 22% | 9% | 9% | 4% | 0% | 0% | 0% | 0% |
| 121A | 121B | Weekend | 37% | 73% | 77% | 85% | 82% | 83% | 70% | 57% | 40% | 24% | 11% | 8% | 3% | 0% | 0% | 0% | 0% |

Table 8: Daily Fishing Conditions.

| Date | Day Type | Pacific Gateway Marina | Port Renfrew Marina |
|-------------|----------|------------------------|---------------------|
| 29 Jul 2019 | Midweek | choppy | |
| 30 Jul 2019 | Midweek | | |
| 31 Jul 2019 | Midweek | | |
| 01 Aug 2019 | Midweek | | |
| 02 Aug 2019 | Midweek | calm/rippled | |
| 03 Aug 2019 | Weekend | | calm/rippled |
| 04 Aug 2019 | Weekend | calm/rippled | |
| 05 Aug 2019 | Weekend | | |
| 06 Aug 2019 | Midweek | calm/rippled | |
| 07 Aug 2019 | Midweek | | |
| 08 Aug 2019 | Midweek | | calm/rippled |
| 09 Aug 2019 | Midweek | choppy | |
| 10 Aug 2019 | Weekend | | calm/rippled |
| 11 Aug 2019 | Weekend | | |
| 12 Aug 2019 | Midweek | | calm/rippled |
| 13 Aug 2019 | Midweek | calm/rippled | |
| 14 Aug 2019 | Midweek | calm/rippled | |
| 15 Aug 2019 | Midweek | | |
| 16 Aug 2019 | Midweek | | calm/rippled |
| 17 Aug 2019 | Weekend | | |
| 18 Aug 2019 | Weekend | | |
| 19 Aug 2019 | Midweek | calm/rippled | |
| 20 Aug 2019 | Midweek | | calm/rippled |
| 21 Aug 2019 | Midweek | | |
| 22 Aug 2019 | Midweek | calm/rippled | |
| 23 Aug 2019 | Midweek | | calm/rippled |
| 24 Aug 2019 | Weekend | | |
| 25 Aug 2019 | Weekend | calm/rippled | |
| 26 Aug 2019 | Midweek | | |
| 27 Aug 2019 | Midweek | calm/rippled | |
| 28 Aug 2019 | Midweek | calm/rippled | |
| 29 Aug 2019 | Midweek | calm/rippled | |
| 30 Aug 2019 | Midweek | | |
| 31 Aug 2019 | Weekend | calm/rippled | |
| 01 Sep 2019 | Weekend | | |
| 02 Sep 2019 | Weekend | calm/rippled | |
| 03 Sep 2019 | Midweek | | |