

Wild Juvenile Salmonid Monitoring Program 2020 Clayoquot Sound, BC

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Summary

Beach seine sampling was conducted on behalf of Cermaq Canada in Clayoquot Sound, BC in 2020. Sampling was completed to monitor sea lice abundance, prevalence and intensity on juvenile wild salmon within Clayoquot Sound in support of the Aquaculture Stewardship Certification process for Cermaq Canada finfish aquaculture sites in the area. This data report represents the sixth year of wild juvenile salmonid monitoring within Clayoquot Sound conducted solely by Cermaq Canada.

Sampling was conducted during five separate sampling events in March, April and May 2020, selected to coincide with the peak outmigration period of juvenile salmonids. Sampling was completed at 18 sites within Clayoquot Sound, BC in 2020. The sites were selected based on their locations relative to existing aquaculture sites located in the area. Sampling was completed with the support of the Ahousaht First Nation.

Total catch numbers of each salmonid species were recorded. Thirty individuals or the total number of captured samples (if less than 30 were captured) were collected at each of the 18 sites during the sampling events. Water quality measurements including temperature and salinity were recorded at each site during each sampling event.

Collected fish were frozen and analyzed in the lab for the presence of sea lice by Mainstream Biological Consulting. Sea lice observed on the individual fish specimens during laboratory analysis were initially identified as either non-motile chalimus, or motile pre-adults and adults. Non-motile sea lice were identified as either of the two chalimus stages for *Lepeophtheirus spp.* or four chalimus stages for *Caligus clemensi*. Motile lice, either pre-adults or adults, were identified as either *Lepeophtheirus spp.* or *Caligus clemensi* and the sex of the louse was determined. Motile *Lepeophtheirus spp.* sea lice found on salmonid specimens were not identified to species, but have been assumed to be *L. salmonis* due to the lack of documented infestation of Pacific salmon by other *Lepeophtheirus* lice species (Jones and Nemec, 2004).

This data summary report documents the observed sea lice infestation rate on retained wild juvenile salmon collected in Clayoquot Sound in 2020. A total of 725 juvenile salmonids underwent analysis for sea lice infestation including 696 chum salmon (*Oncorhynchus keta*) and 29 coho salmon (*Oncorhynchus kisutch*). No pink salmon, sockeye salmon or Atlantic salmon were captured during sampling completed in Clayoquot Sound in 2020. The chinook salmon and threespine stickleback captured were not retained for sea lice analysis.

From the total sample population 198 fish were infested with 368 sea lice. The calculated prevalence for the total sample population was 27.3 % and the sea lice abundance was 0.51 for the sample population collected in Clayoquot Sound in 2020.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 2430 chum salmon were captured, representing 96.0 % of all captured samples. Of the 2430 chum captured, 696 were kept for lab analysis for sea lice infestation. A total of 197 chum smolts were found to be infested with 367 lice resulting in a calculated prevalence of 28.3 %, abundance of 0.53 and an average intensity of 1.9 for the chum salmon sample population.

A total of 29 coho salmon were collected in Clayoquot Sound in 2020. One coho salmon was found to be infested with one louse resulting in a species prevalence of 3.4 %, an abundance of 0.03 and an intensity of 1.0.

A total of 279 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 161 individuals and 89 *Caligus clemensi* sea lice were found on 49 of the 725 samples analyzed in the lab. There were 12 samples that were infested with both *L. salmonis* and *C. clemensi*.

For the chum salmon sample population, a total of 278 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 160 juvenile chum salmon and 89 *Caligus clemensi* sea lice were found on 49 of the juvenile chum salmon analyzed in the lab. There were 12 chum salmon infested with lice from both species.

For the coho salmon sample population, a single *Lepeophtheirus salmonis* sea louse was identified during lab analysis.

A comparison of the prevalence and abundance of sea lice found on chum salmon was completed for sample data from 2016 to 2020 collected in Clayoquot Sound, BC. This data is presented in a summary table in Appendix IV.

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1.0 Introduction

At the request of Cermaq Canada, beach seine sampling to capture wild juvenile salmon to be analyzed for sea lice infestation took place at 18 sites located in Clayoquot Sound, BC (Figure 1). The sample collection occurred during five sample events in 2020 on March 24/25, April 8/9, April 29/30, May 12/13 and May 28/29. These weeks were selected to coincide with the estimated peak outmigration dates of juvenile salmonids. Sampling was completed with the support of the Ahousaht First Nation.

Parasitic copepods from the family Caligidae (sea lice) found in the coastal waters of British Columbia are divided into two genera: *Lepeophtheirus* and *Caligus*. Eleven species of *Lepeophtheirus* have been identified infesting fish in the Pacific Ocean, while only one species of *Caligus* (*Caligus clemensi*) have been identified (Margolis and Arthur 1979; McDonald and Margolis, 1995). Motile *Lepeophtheirus spp.* sea lice found on salmonid specimens were assumed to be *L. salmonis* due to the lack of documented infestation of Pacific salmon by other *Lepeophtheirus* lice species (Jones and Nemeč, 2004).

Both of these genera have similar life histories and developmental stages (Kabata, 1972; Johnson and Albright, 1991a). The sea lice hatch from eggs and develop through two free-swimming naupilii stages before developing into an infectious free-swimming copepodid. At this point, the sea lice attach to their host and develop through chalimus stages. The chalimus are “non-motile” and are attached to their host by a frontal filament. The final chalimus stage terminates as the sea lice become “motile” and are no longer attached to their hosts by the frontal filament. The sea lice can now move freely on the fish as they develop through a pre-adult stage before becoming reproductively viable adults.

Cermaq Canada originally requested monitoring of sea lice abundance, prevalence and intensity on wild juvenile salmon in Clayoquot Sound in support of Aquaculture Stewardship Certification, but the monitoring program has evolved to be a standard annual monitoring event in cooperation with Ahousaht Fisheries.

This data summary report documents the observed sea lice infestation rates on retained samples collected in Clayoquot Sound in 2020. This represents the sixth year of wild juvenile salmonid monitoring in Clayoquot Sound conducted solely by Cermaq Canada. This monitoring program has been adapted from previous sea lice monitoring completed by the Clayoquot Sound Sea Lice Working Group and represents a continuation of the sampling they conducted between 2003 and 2011.

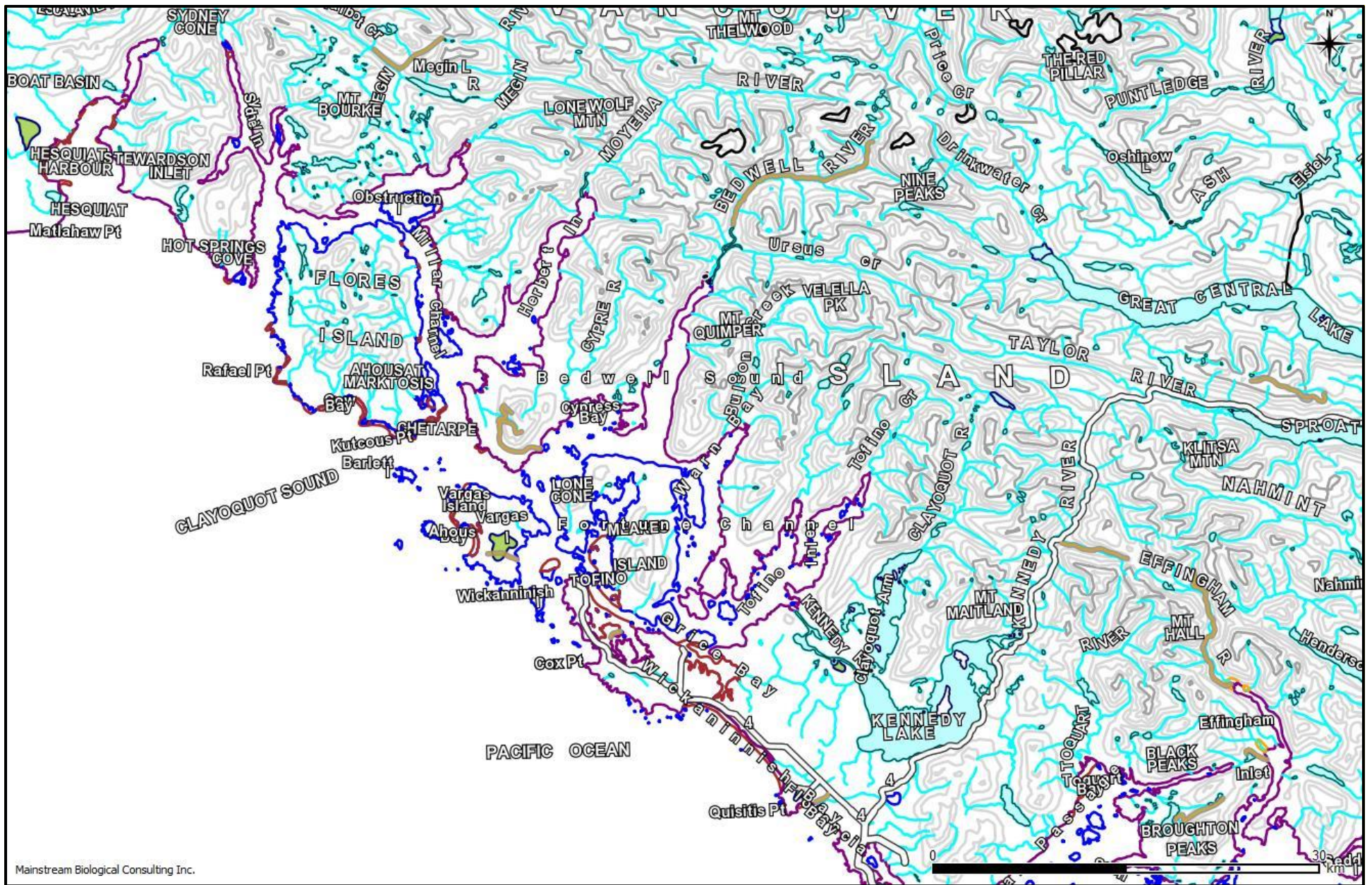


Figure 1: An overview map showing the location of Clayoquot Sound on the west coast of Vancouver Island, BC.

2.0 Methods

The fish inspected for sea lice infestation were collected from 18 sites in Clayoquot Sound, BC in 2020. These sites were chosen based on their locations relative to existing Cermaq Canada aquaculture sites in the area (Figure 2). The sites were sampled five times in 2020 on March 24/25, April 8/9, April 29/30, May 12/13 and May 28/29.

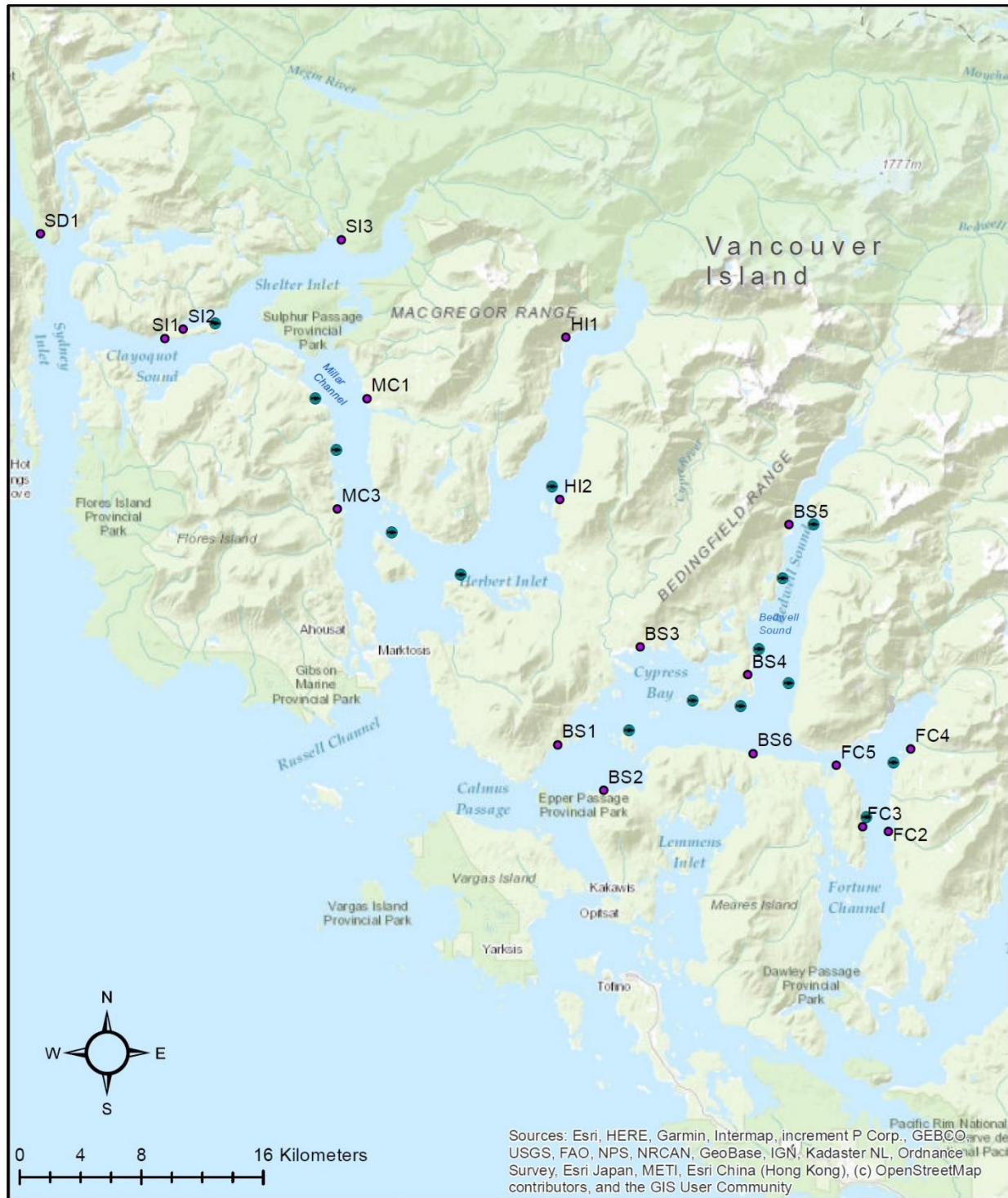
2.1 Site Locations

The 18 sites at which beach seining was conducted to collect specimens for sea lice analysis consisted of three sites in Shelter Inlet, two sites in Millar Channel, two sites in Herbert Inlet, six sites in Bedwell Sound, four sites in Fortune Channel and one in Sydney Inlet. The approximate locations of the 18 beach seine sites are shown in Figure 2. GPS coordinates collected in the field for the sites are presented in Table 1.

Table 1: The site name and location of the 18 beach seine sites in Clayoquot Sound.

Site Name	Latitude	Longitude
SI1	49 23.913	126 10.148
SI2	49 24.147	126 10.296
SI3	49 26.285	126 04.754
MC1	49 22.595	126 03.808
MC3	49 19.885	126 04.620
HI1	49 23.199	125 57.108
HI2	49 20.171	125 56.872
BS1	49 14.484	125 56.987
BS2	49 13.474	125 55.334
BS3	49 16.764	125 54.080
BS4	49 16.069	125 50.215
BS5	49 19.552	125 48.763
BS6	49 14.297	125 49.779
FC2	49 12.564	125 45.235
FC3	49 12.613	125 46.155
FC4	49 14.323	125 44.567
FC5	49 14.031	125 47.075
SD1	49 26.341	126 15.341

Clayoquot Sound Wild Smolt Monitoring Program



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Figure 2: The locations of the 18 beach seine sites in Clayoquot Sound sampled in 2020.

2.2 Field Procedures

In house procedures, adapted from procedures utilized by the Department of Fisheries and Oceans (DFO) for beach seining, fish collection and field data recording in place since 2004 for juvenile salmon sampling were used by Mainstream Biological Consulting staff during sampling in Clayoquot Sound in 2020.

An 17ft Boston Whaler, powered by a 70 horsepower outboard motor, was used to access the beach seine sites in the southern portion of the sampling area consisting of the Bedwell Sound and Fortune Channel sites. A 150 ft (45.7 m) long by 12 ft (3.7 m) deep beach seine net was used to capture specimens. The net was constructed in three 50 ft (15.2 m) sections. The centre bunt section consists of one-quarter inch diameter diamond mesh, while the two side panels (wings) consist of half-inch diameter diamond mesh. Floats were located every 30 cm along the top-line and a lead line weighted the bottom of the net.

A three person crew was utilized to conduct the beach seine sets and retrieve samples in a consistent manner at each of the 10 southern sites. All beaches were approached slowly by boat and one crewmember was put ashore with the towline from one end of the beach seine net. The onshore crewmember held the towline at one side of the sample site, while the second crewmember ensured the net deployed smoothly off the bow or side of the boat. The third crewmember, the boat operator, backed the boat in a wide semicircle towards the opposite side of the sample site and remained on the boat to record field data. When the net was fully deployed, the second crewmember stepped into the shallow water with the towline or tossed it to the awaiting crewmember on shore. A slow retrieval of the net began immediately.

As the net was slowly retrieved, a sample of surface water was collected to measure salinity and water temperature data using an Oakton® SALT 6+ meter.

The crewmembers retrieved the net evenly from opposite ends ensuring that the lead line remained as close to the bottom as possible. All retrieved netting was piled on the beach above the water level. As the retrieval reached the net bunt, the lead line was retrieved at a faster rate than the floats to allow the netting of the bunt to form a bag under the captured fish. The lead line was then pulled up onto the beach above the water level. One crewmember worked their way around the outside of the net in the shallow water to ensure the floats stayed above the surface of the water. In this manner a small, shallow bag formed from the bunt of the net held the captured fish in the water.

The third crew member anchored the boat and the entire crew participated in the collection of individual fish to ensure that captured fish remained in the net for as short a period of time as possible. The net was manipulated, if necessary, in response to rising or falling tides in order to ensure the captured fish remained in the net and were held in sufficient water to minimize stress. The level of sufficient water was dependant on the size and numbers of captured fish but was generally thought of as enough water to minimize fish contact with the net or with other fish.

A total of 30 individuals from each target species captured or all of the individuals present (if less than 30) were collected as samples for sea lice infestation analysis. Individual fish were “swam” into an appropriately sized whirl-pak bag. All handling of fish was kept to a minimum. All captured chinook salmon were released immediately. Threespine stickleback were not retained due to the limited sample size.

When all the fish for retention were collected, a total catch number for each species was recorded. The fish remaining in the net were counted out of the seine net, or an estimate of the remaining fish was made (estimates were used when it appeared that more than 500 individuals from any given species remained in the net). The total of fish remaining in the net was added to the number of retained individuals to calculate a total capture number for a given species.

A crewmember recorded all the information from each beach seine set in a standardized field form. The information recorded included the following:

- The site name;
- The date;
- The time at the end of the individual fish collection;
- Comments on weather and oceanic conditions;
- Total capture and retained fish numbers for each specimen group;
- Water temperature (°C) and salinity (ppt) to one decimal place;
- Exact GPS coordinates; and
- The number of salmonid mortalities.

The retained fish from each site were packaged separately in re-sealable bags and labelled with the site name, the date and sample numbers and species. Site sample bags were placed in a cooler with sufficient ice packs for storage. The specimens were transferred to a portable freezer immediately upon return to the boat launch and then transferred to a freezer at the office upon return from the field.

The beach seine net was reloaded onto the bow of the boat. Crewmembers scanned the net for obvious holes, which were repaired immediately if found. Remaining sample gear was stored for transit between sites.

The above procedures for beach seine net deployment and retrieval, as well as those described for fish collection, were repeated at all 10 sample sites in the southern area.

A boat was supplied by Cermaq Canada for beach sampling for the northern area in Clayoquot Sound in 2020. The same net was used to sample both areas.

A four-person crew was utilized to conduct the beach seine sets and retrieve samples in a consistent manner at the eight northern sites. The sampling method for the northern sites was consistent with the southern sites. The additional crewmember was a designated boat driver.

Ahousaht Fisheries participated in the 2020 sampling in Clayoquot Sound, but due to Covid 19 protocols were limited in scope. Ahousaht Fisheries observed sampling at all northern sites from a safe distance in a separate boat.

2.3 Laboratory Procedures

The laboratory procedures for sea lice analysis have been adapted from the procedures demonstrated by Sheila Dawe and Eliah Kim at the Pacific Biological Station in Nanaimo, BC, during sea lice identification training that was conducted on April 1, 2004. Additional sea lice identification training by Paul Callow was conducted at the Pacific Biological Station in September 2007.

Fish samples were thawed immediately prior to lab analysis. Individual fish were identified to species and counted. The results of this identification and count were compared to the reported data found on the field data sheets.

A standardized data sheet was used to record sea lice analysis results from each site. The site and week number, sample date and number of fish were recorded. The date and time of the start of the analysis was also noted on the data sheet. Data from individual fish was recorded as the analysis proceeded.

Individual fish, when thawed, were removed from their bag, using a pair of forceps at the caudal peduncle, and placed in a petri dish. Each bag was labelled chronologically with an individual identification number (1 –725). Each fish was then scanned for the presence of sea lice under a stereoscopic dissection microscope. The microscope was set at a magnification of 20X for the preliminary survey of each fish sample, but magnification was occasionally increased to 40X during individual sea lice identification.

Microscopic analysis of each individual fish began at the anterior end of the left side of the specimen. The head was examined first, after which a scan was made along the dorsal half of the specimen working towards the posterior end and the tail. The dorsal fin was lifted and expanded, as was the caudal fin, with a pair of forceps. From the posterior end a return scan was made along the ventral half of the specimen back to the head. The anal fin, pelvic fin and pectoral fin were also lifted and expanded using a pair of forceps. The fish was then flipped using a pair of forceps at the caudal peduncle and the procedure was repeated on the right hand side of the specimen. Additional scans were made longitudinally down the fish if the entire depth of the fish could not be seen in a single pass. Any sea lice observed on the fish were removed and placed in a petri dish with saline solution.

Each individual bag was visually inspected after the removal of the fish for the presence of pre-adult or adult sea lice that may have become dislodged during handling. These “loose” sea lice were recorded on the data sheet with the data for the corresponding specimen and it was assumed that the lice had come from that individual.

Sea lice were identified using characteristics outlined by Kabata (1972) and Johnson and Albright (1991a). Sea lice observed on individual fish were identified as either non-motile chalimus (including copepodid), or motile pre-adults and adults. Non-motile sea lice were identified as either of the two chalimus stages for *Lepeophtheirus salmonis* (Hamre et al., 2013) or four chalimus stages for *Caligus clemensi*. Motile sea lice were identified as *Lepeophtheirus spp.* or *Caligus clemensi*, pre-adults or adults, and males or females.

Chalimus were identified to species primarily by characteristics of the frontal filament. However, size, shape, genital development, and leg development were used as secondary identifying characteristics for speciation as well as primary indicators for life stage identification. Motile sea lice were identified to species by the presence or absence of lunules. If lunules were absent the louse was identified as *Lepeophtheirus spp.* The louse was identified as *Caligus clemensi* if lunules were present.

Lepeophtheirus spp. sea lice found on captured specimens were not identified to species, but have been assumed to be *L. salmonis* due to the lack of documented infestation of Pacific salmon by other *Lepeophtheirus* species of sea lice (Jones and Nemec, 2004).

After microscopic analysis individual fish specimens were measured (fork length) in millimetres and weighed (recorded to the nearest tenth of a gram). Lengths and weights were also recorded on the data sheet with the specimen’s corresponding sea lice analysis results. The fish were then returned to their respective individual bags and the

fish from each site were repackaged in the large re-sealable bags. All samples were then refrozen.

In order to allow for quality assurance of sea lice identification, all sea lice were placed in labelled vials and preserved in 70% isopropyl alcohol. Ten percent of the deloused fish specimens were randomly selected by specimen number and retained. Both the preserved lice and retained deloused fish specimens will be kept at the office of Mainstream Biological Consulting in Campbell River for five years.

2.4 Data Analysis

Surface water quality data collected for temperature and salinity was summarized to report the minimum and maximum values as well as the calculated averages. The data was graphed for report presentation.

Beach seine fish sample composition was summarized by species and site for each week. The recorded fork lengths and weights of the sample population were summarized to present minimum and maximum values as well as calculated averages. Sea lice infestation rates, including the number of infested fish and the number of sea lice identified, were determined for the sample population. Prevalence, as defined as the number of host fish found to have one or more sea lice compared to the total number of host fish examined, was determined for the sample population. Abundance, as defined as the total number of sea lice observed compared to the total number of host fish examined, was also determined for sample population. The intensity of sea lice infestation, as described by the number of sea lice found on a single salmon was summarized.

Statistical analysis of the spatial and temporal distribution of sea lice was not conducted. Spatial and temporal analysis has been limited to the simple presentation and discussion of the number of sea lice found on fish specimens collected from each site during each of the sampling events.

3.0 Results

The following sections outline the results of beach seine collection and subsequent sea lice inspection of juvenile salmonids collected from Clayoquot Sound, BC, in 2020. Water quality field data is presented in Appendix I, beach seine fish capture data is included in Appendix II and data on the juvenile salmon sample population including sea lice lab analysis results are located in Appendix III.

3.1 Water Quality Parameters

Surface measurements of water temperature and salinity, taken during beach seining at each of the 18 sites during the five sample periods, are presented in Figures 3 and 4 respectively. The field data recorded at each site is included in Appendix I.

Surface water temperature readings taken at the 18 sample sites showed an overall gradual increasing trend over the sample period (Figure 3). Recorded surface water temperatures ranged from a low of 7.6 °C recorded at site SD1 on March 24, 2020 to a high of 16.8 °C recorded at site MC1 on May 29, 2020 (Appendix I). Calculated weekly average surface water temperatures increased from 9.2 °C for March 24/25, 2020, to 10.3 °C for April 8/9, 2020 and April 29/30, 2020, to 12.3 °C for May 12/13, 2020, to the high of 15.0 °C for May 28/29, 2020.

Recorded surface water salinity ranged from a low of 6.2 ppt recorded at Site BS4 on May 13, 2020 and Site SI3 on March 30, 2020, to a high of 30.9 ppt recorded at site SI1 and MC1 on March 24, 2020 and April 9, 2020 respectively (Figure 4). The calculated weekly average surface water salinity fluctuated from 26.4 ppt for March 24/25, 2020, to 28.2 ppt for April 8/9, 2020, to 17.9 for April 29/30, 2020, to 21.5 ppt for May 12/13, 2020 and May 28/29, 2020.

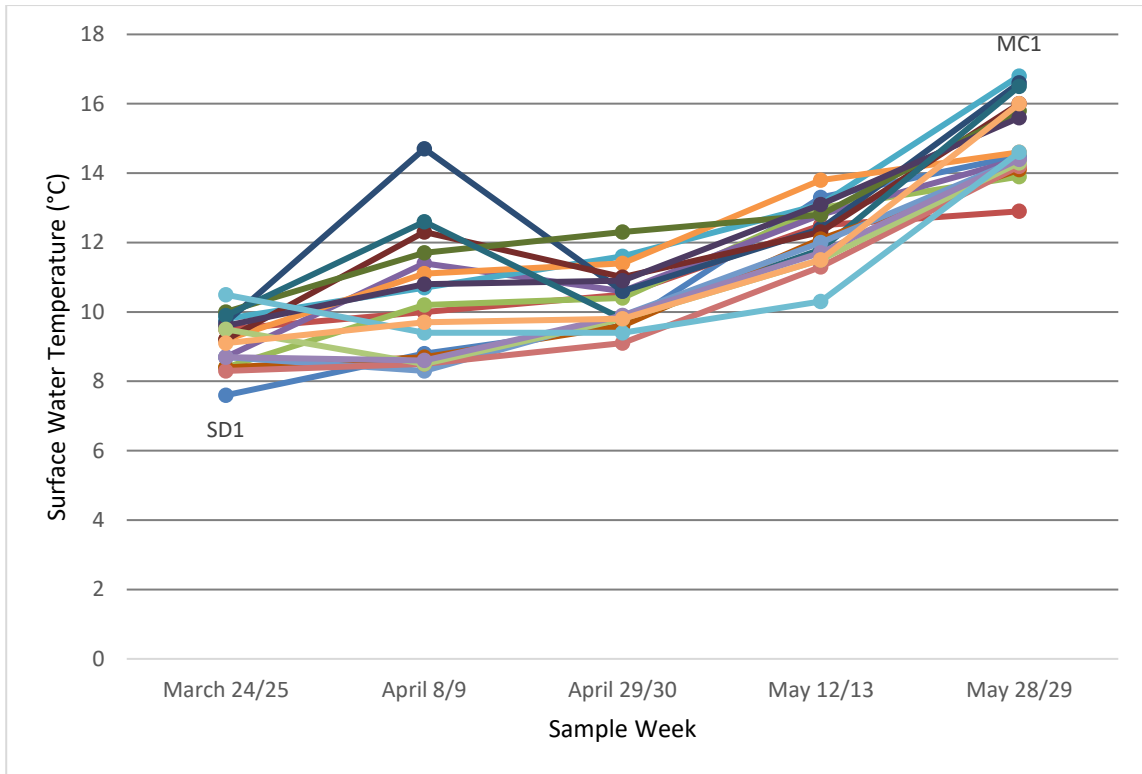


Figure 3: Surface water temperature recorded at 18 beach seine sites in Clayoquot Sound, BC between March 24, 2020 and May 29, 2020.

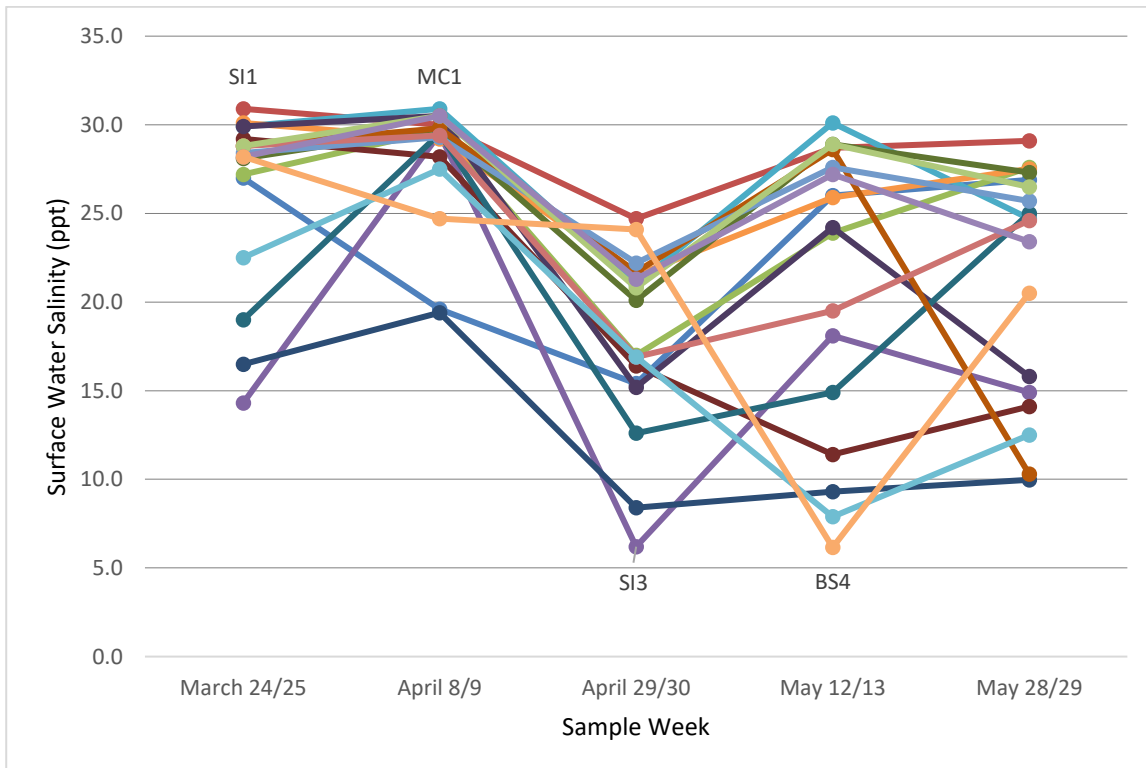


Figure 4: Salinity measurements recorded at 18 beach seine sites in Clayoquot Sound, BC between March 24, 2020 and May 29, 2020.

3.2 Fish Sample Composition

A total of 2530 fish were captured during beach seine sampling conducted in Clayoquot Sound, BC in 2020 (Table 2). A summary of the total number of fish captured and collected as specimens at each site over the collection period can be found in Table 3. Totals of fish captured and collected specimens at each site over the entire collection period can be found in Appendix II. Only chum salmon and coho salmon were retained as sample specimens and underwent analysis for sea lice infestation. Of the 2430 chum salmon captured, 696 individual chum salmon (28.6 %) were retained and underwent lab analysis. All of the 29 coho salmon captured were retained and kept for lab analysis. No pink salmon, sockeye salmon or Atlantic salmon were captured during beach seine sampling conducted in Clayoquot Sound, BC in 2020.

Chum salmon (*O. keta*) smolts were captured in significantly greater numbers than any other species. A total of 2430 chum salmon were captured, representing 96.0 % of all captured salmonids. Chinook salmon were the next most commonly caught species with a total capture of 54 (2.1 %), followed by coho salmon and threespine stickleback. No chinook salmon or threespine stickleback were retained in 2020.

Table 2: The total of collected individuals of each fish species captured in Clayoquot Sound, BC in March, April and May 2020, and the percentage of the total capture population that they represent.

Common Name	Capture Totals (% of total capture population)	Collection Totals	Collection %
chum salmon	2430 (96.0 %)	696	28.6
coho salmon	29 (1.1 %)	29	100.0
chinook salmon (not retained for analysis)	54 (2.1 %)	0	0
threespine stickleback	17 (0.7 %)	0	0
All species	2530	725	28.7

Table 3: The number of captured fish (Capture Total) and the number of individual fish collected (Sample Total) from each of the 18 sample sites in Clayoquot Sound, BC in March, April and May 2020.

Site	Chum		Coho		Chinook		Sockeye		TSB		Capture Total	Sample Total
	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total		
BS1	207	73	0	0	0	0	0	0	16	0	223	73
BS2	248	58	0	0	0	0	0	0	0	0	248	58
BS3	5	5	12	12	21	0	0	0	0	0	38	17
BS4	237	61	4	4	5	0	0	0	0	0	246	65
BS5	569	62	0	0	3	0	0	0	0	0	572	62
BS6	211	90	0	0	0	0	0	0	0	0	211	90
FC2	5	5	0	0	0	0	0	0	1	0	6	5
FC3	6	5	0	0	0	0	0	0	0	0	6	5
FC4	1	1	0	0	0	0	0	0	0	0	1	1
FC5	148	52	0	0	0	0	0	0	0	0	148	52
HI1	61	38	0	0	0	0	0	0	0	0	61	38
HI2	23	23	0	0	0	0	0	0	0	0	23	23
MC1	6	6	8	8	1	0	0	0	0	0	15	14
MC3	93	47	1	1	2	0	0	0	0	0	96	48
SD1	22	22	0	0	5	0	0	0	0	0	27	22
SI1	36	36	0	0	0	0	0	0	0	0	36	36
SI2	530	90	3	3	0	0	0	0	0	0	533	93
SI3	22	22	1	1	17	0	0	0	0	0	40	23
Total	2430	696	29	29	54	0	0	0	17	0	2530	725

3.3 Fish Sample Size Statistics

Summary statistics for the sample population of juvenile salmonids were completed for weight and fork length. Original fish length and weight data is included in Appendix III. Summary statistics were completed for chum salmon and coho salmon.

3.3.1 Chum salmon

Analysis of weight and fork length data was completed for the chum salmon sample population collected in Clayoquot Sound in 2020. The weight of 696 chum smolts collected during the five sampling events ranged from 0.1 g to 4.4 g and averaged 0.8 g (SD = 0.6). The fork length of the chum smolts ranged from 24 mm to 69 mm and averaged 40 mm (SD = 6.9).

3.3.2 Coho salmon

Analysis of weight and total length data was completed for the coho salmon sample population collected in Clayoquot Sound in 2020. The weight of 29 coho collected during the five sampling events ranged from 4.1 g to 11.6 g and averaged 6.4 g (SD = 1.7). The total length of the coho salmon ranged from 65 mm to 95 mm and averaged 79 mm (SD = 7.4).

3.4 Sea Lice Infestation

The results of the laboratory analysis for the presence of sea lice on the sample population collected in Clayoquot Sound in 2020 are presented in Table 4. The data recorded for each fish in the sample population during lab analysis is included in Appendix III. A total of 725 samples were collected at 18 sites in Clayoquot Sound in 2020 and were inspected for sea lice infestation. A total of 198 individuals in the sample population were found to be infested with 368 sea lice (Table 4). A total of 197 chum smolts and one coho salmon were found to be infested with sea lice (Table 4). This data reflects the identification of sea lice of either species (*L. salmonis* and *C. clemensi*) on inspected juvenile salmon.

Prevalence was defined as the number of fish found to be infested with one or more sea louse compared to the total number of fish. Abundance was defined as the total number of sea lice observed compared to the total number of fish. The sea lice prevalence in the sample population collected in Clayoquot Sound in 2020 was 27.3 %, and the abundance was 0.51 (Table 4). Sea lice counts of both species observed (*L. salmonis* and *C. clemensi*) were added together for the prevalence and abundance calculations for the entire sample population.

The intensity of sea lice infestation, as defined as the number of sea lice on a single sample, ranged from one louse found on 118 individuals to a maximum of 12 lice found on one individual. The average intensity was calculated by dividing the total number of sea lice by the number of infested fish which was 1.9 for chum and 1.0 for coho salmon (Table 4).

Table 4: Results of analysis for sea lice infestation on the sample population collected by beach seine in Clayoquot Sound, BC in 2020.

Species	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
chum	696	367	197	28.3	0.53	1.9
coho	29	1	1	3.4	0.03	1.0
Total	725	368	198	27.3	0.51	1.9

3.4.1 Infestation Rates of Chum Salmon

A total of 696 chum salmon collected at 18 sites within Clayoquot Sound over five sample weeks were inspected for sea lice infestation. The results of the laboratory analysis are presented in Table 5 for each sample period by site for chum salmon. A total of 197 chum salmon were found to be infested with 367 sea lice. This data reflects the identification of sea lice of either species (*L. salmonis* and *C. clemensi*) on inspected chum salmon and these combined numbers were used to calculate prevalence, abundance and intensity.

The largest number of chum salmon infested with sea lice (65 chum) occurred during the April 8/9, 2020 sample period and the greatest number of sea lice (130 sea lice) were found on samples collected on April 29/30, 2020 (Table 5). Site BS1 had the highest number of infested chum salmon (40) with 70 lice. While SI2 had the highest number of lice (98) on 35 infested chum salmon (Table 5).

Prevalence was defined as the number of fish found to have one or more sea louse compared to the total number of fish. A total of 197 chum salmon were found to be infested with at least one louse. The prevalence of sea lice on the chum salmon sample (n=696) collected in Clayoquot Sound in 2020 was 28.3 %. Sea lice prevalence was calculated by site and is presented in Table 6. Sea lice prevalence calculated by site for the chum salmon sample population was highly variable ranging from a low of 0 % at sites BS3, FC2, FC4, HI1 and MC1 to a high of 55.3 % at site MC3.

A total of 367 sea lice were identified during laboratory analysis of retained chum salmon. Abundance was defined as the total number of sea lice observed compared to the total number of fish. The abundance of sea lice on the chum salmon sample population (n=696) collected in Clayoquot Sound in 2020 was 0.53. Sea lice abundance was calculated by site and is presented in Table 6. Sea lice abundance calculated by site was also highly variable ranging from a low of 0 at sites BS3, FC2, FC4, HI1 and MC1 to a high of 1.17 at MC3.

The sampled sites were also grouped by sampling area and sea lice prevalence, abundance and intensity were calculated for the chum salmon sample population collected in in these areas (Table 7).

The calculated average intensity of sea lice infestation for the chum salmon sample population was 1.9 (Table 4). The intensity of sea lice infestation, as defined as the number of sea lice on a single salmon, ranged from one louse found on 118 individuals to a maximum of 12 lice found on one juvenile chum salmon. The percentage of the chum salmon sample population with the number of sea lice per sample was graphed and is presented in Figure 5. As shown in this graph, 71.7 % of the chum sample population were not infested with sea lice, 26.9 % were infested with less than five sea lice and 1.4 % of the chum salmon sample population was infested with five or more sea lice.

Table 5: The number of sea lice found on chum salmon collected in Clayoquot Sound in 2020 summarized by the 18 sites where beach seining was conducted.

Site	Sample Week															Total		
	March 24/25, 2020			April 8/9, 2020			April 29/30, 2020			May 12/13, 2020			May 28/29, 2020					
	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice
BS1	1	1	1	30	12	18	14	9	18	28	18	33	0	-	-	73	40	70
BS2	10	0	0	8	1	2	30	18	28	10	5	12	0	-	-	58	24	42
BS3	0	-	-	0	-	-	4	0	0	1	0	0	0	-	-	5	0	0
BS4	30	4	5	1	1	1	30	5	12	0	-	-	0	-	-	61	10	18
BS5	30	1	1	30	3	3	2	0	0	0	-	-	0	-	-	62	4	4
BS6	30	0	0	30	7	10	30	8	12	0	-	-	0	-	-	90	15	22
FC2	3	0	0	2	0	0	0	-	-	0	-	-	0	-	-	5	0	0
FC3	5	2	2	0	-	-	0	-	-	0	-	-	0	-	-	5	2	2
FC4	0	-	-	0	-	-	1	0	0	0	-	-	0	-	-	1	0	0
FC5	1	0	0	30	6	9	14	3	3	7	2	2	0	-	-	52	11	14
HI1	30	0	0	5	0	0	3	0	0	0	-	-	0	-	-	38	0	0
HI2	1	0	0	20	3	6	2	0	0	0	-	-	0	-	-	23	3	6
MC1	6	0	0	0	-	-	0	-	-	0	-	-	0	-	-	6	0	0
MC3	3	0	0	30	17	33	0	-	-	13	9	22	1	0	0	47	26	55
SD1	21	10	11	1	1	2	0	-	-	0	-	-	0	-	-	22	11	13
SI1	27	9	15	0	-	-	0	-	-	9	6	7	0	-	-	36	15	22
SI2	30	7	8	30	13	33	30	15	57	0	-	-	0	-	-	90	35	98
SI3	0	-	-	5	1	1	11	0	0	0	-	-	6	0	0	22	1	1
Total	228	34	43	222	65	118	171	58	130	68	40	76	7	0	0	696	197	367

Table 6: Calculated sea lice prevalence, abundance and intensity by site as determined for chum salmon collected in Clayoquot Sound, BC in 2020.

Site	# of Chum Analyzed	# of Infested Chum	# of Lice	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
BS1	73	40	70	54.8	0.96	1.8
BS2	58	24	42	41.4	0.72	1.8
BS3	5	0	0	0.0	0.00	0.0
BS4	61	10	18	16.4	0.30	1.8
BS5	62	4	4	6.5	0.06	1.0
BS6	90	15	22	16.7	0.24	1.5
FC2	5	0	0	0.0	0.00	0.0
FC3	5	2	2	40.0	0.40	1.0
FC4	1	0	0	0.0	0.00	0.0
FC5	52	11	14	21.2	0.27	1.3
HI1	38	0	0	0.0	0.00	0.0
HI2	23	3	6	13.0	0.26	2.0
MC1	6	0	0	0.0	0.00	0.0
MC3	47	26	55	55.3	1.17	2.1
SD1	22	11	13	50.0	0.59	1.2
SI1	36	15	22	41.7	0.61	1.5
SI2	90	35	98	38.9	1.09	2.8
SI3	22	1	1	4.5	0.05	1.0
Total	696	197	367	28.3	0.53	1.9

Table 7: Calculated sea lice prevalence, abundance and intensity by sampling area as determined for chum salmon collected in Clayoquot Sound, BC in 2020.

Sampling Area (# of Sites)	# of Chum Analyzed	# of Infested Chum	# of Lice	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
SI (3)	148	51	121	34.5	0.82	2.4
MC (2)	53	26	55	49.1	1.04	2.1
HI (2)	61	3	6	4.9	0.10	2.0
BS (6)	349	93	156	26.6	0.45	1.7
FC (4)	63	13	16	20.6	0.25	1.2
SD (1)	22	11	13	50.0	0.59	1.2
Total	696	197	367	28.3	0.53	1.9

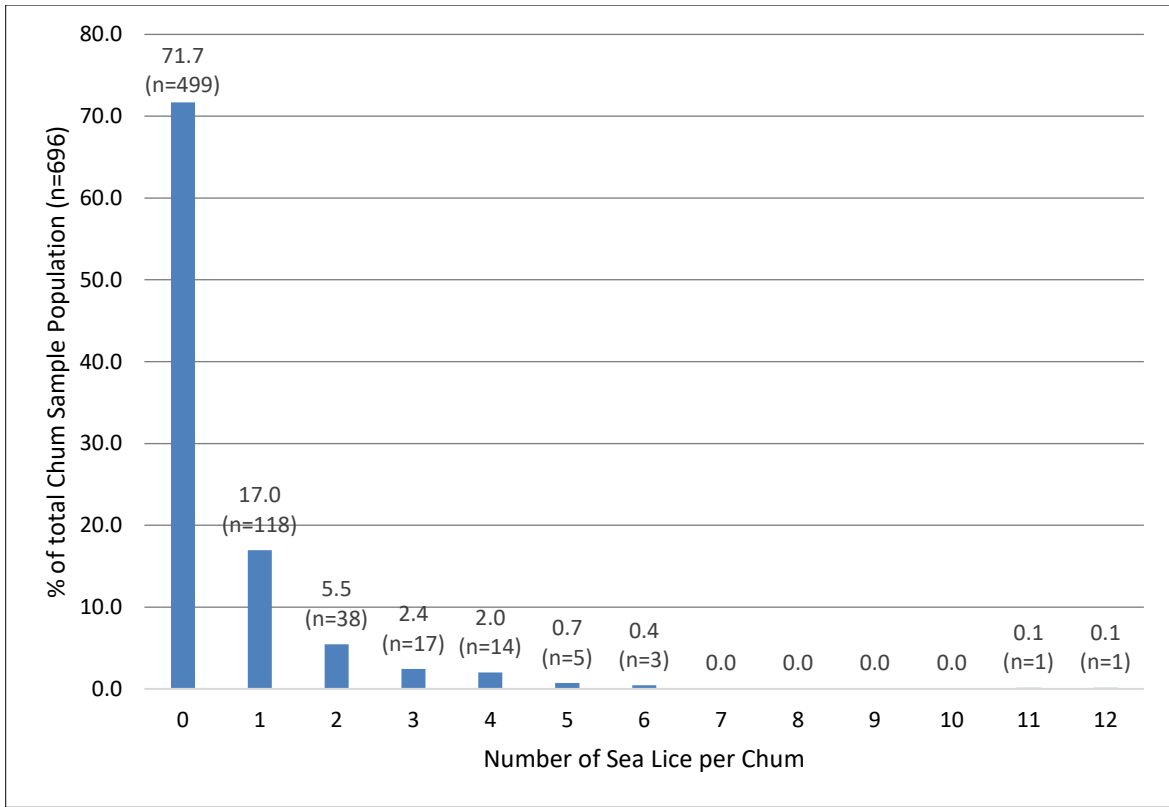


Figure 5: The number of sea lice per chum salmon graphed as a percentage of the total chum sample population collected in Clayoquot Sound in 2020.

3.4.2 Infestation Rates of Coho Salmon

A total of 29 coho salmon were collected in Clayoquot Sound in 2020 during the third, fourth and fifth sampling period at sites BS3, BS4, MC1, MC3, SI2 and SI3 (Table 3). One coho salmon was found to be infested with one louse resulting in a species prevalence of 3.4 % and an abundance of 0.03 (Table 4). The infested coho salmon was collected at site BS3 on May 13, 2020.

3.5 Infestation Rates by Sea Lice Species

A total of 279 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 161 individuals and 89 *Caligus clemensi* sea lice were found on 49 of the 725 samples analyzed in the lab (Appendix III). There were 12 samples that were infested with both *L. salmonis* and *C. clemensi*.

3.5.1 Infestation Rates by Sea Lice Species on Chum Salmon

An analysis of the species of sea lice identified on the 197 infested chum salmon collected in Clayoquot Sound in 2020 was completed and is presented in Table 8. A total of 278 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 160 juvenile chum salmon and 89 *Caligus clemensi* sea lice were found on 49 of the juvenile chum salmon analyzed in the lab (Appendix III). There were 12 chum salmon infested with lice from both species. The analysis of the species of sea lice on infested chum salmon was also summarized by grouped sampling area and presented in Table 9.

Table 8: The number of sea lice in each life stage by species identified on chum salmon from Clayoquot Sound 2020. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	Number of lice
LEP Co	78
LEP C1	115
LEP C2	47
LEP PAM	16
LEP PAF	18
LEP AM	2
LEP AF	2
TOTAL LEP	278
CAL Co	6
CAL C1	42
CAL C2	10
CAL C3	2
CAL C4	23
CAL PAM	4
CAL PAF	1
CAL AM	1
CAL AF	0
TOTAL CAL	89

¹ Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

Table 9: The number of sea lice in each life stage by species identified on chum salmon grouped by collection area in Clayoquot Sound in 2020. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	Sampling Area (Number of fish analyzed)						
	All Sites (696)	SI (148)	MC (53)	HI (61)	BS (349)	FC (63)	SD (22)
LEP Co	78	24	14	1	21	8	10
LEP C1	115	39	13	5	54	4	0
LEP C2	47	3	16	0	27	1	0
LEP PAM	16	1	3	0	12	0	0
LEP PAF	18	4	3	0	11	0	0
LEP AM	2	0	1	0	1	0	0
LEP AF	2	0	1	0	1	0	0
TOTAL LEP	278	71	51	6	127	13	10
CAL Co	6	1	0	0	3	1	1
CAL C1	42	34	2	0	3	1	2
CAL C2	10	3	2	0	4	1	0
CAL C3	2	0	0	0	2	0	0
CAL C4	23	10	0	0	13	0	0
CAL PAM	4	1	0	0	3	0	0
CAL PAF	1	0	0	0	1	0	0
CAL AM	1	1	0	0	0	0	0
CAL AF	0	0	0	0	0	0	0
TOTAL CAL	89	50	4	0	29	3	3

¹ Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female.

3.5.2 Infestation Rates by Sea Lice Species on Coho Salmon

There was one coho salmon infested with a single *L. salmonis* copepodid in the coho salmon sample population (n=29) collected in Clayoquot Sound in 2020.

4.0 Conclusions

This report presents the data from the sixth year of beach seining and sea lice analysis conducted for wild juvenile salmonid monitoring in Clayoquot Sound, BC by Cermaq Canada. This report is limited to the summary and presentation of data from sampling and analysis completed in 2020. Historic sea lice data for infestation rates on chum salmon from 2016 to 2020 is included in Appendix IV.

A total of 725 juvenile salmonids underwent analysis for sea lice infestation including 696 chum salmon and 29 coho salmon. No pink salmon, sockeye salmon or Atlantic salmon were captured during sampling completed in Clayoquot Sound in 2020. The chinook salmon and threespine stickleback captured were not retained for sea lice analysis.

From the total sample population 198 samples were infested with 368 sea lice. The calculated prevalence for the total sample population was 27.3 % and the sea lice abundance was 0.51 for the sample population collected in Clayoquot Sound in 2020.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 2430 chum salmon were captured, representing 96.0 % of all captured samples. Of the 2430 chum captured, 696 were kept for lab analysis for sea lice infestation. A total of 197 chum smolts were found to be infested with 367 lice resulting in a calculated prevalence of 28.3 %, abundance of 0.53 and an average intensity of 1.9 for the chum sample population.

A total of 29 coho salmon were captured and retained for sea lice analysis. One coho smolt was found to be infested with one louse resulting in a calculated prevalence of 3.4 %, abundance of 0.03 and an intensity of 1.0 for the coho salmon sample population.

A total of 279 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 161 individuals and 89 *Caligus clemensi* sea lice were found on 49 of the 725 samples analyzed in the lab. There were 12 samples that were infested with both *L. salmonis* and *C. clemensi*.

For the chum salmon sample population, a total of 278 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 160 juvenile chum salmon and 89 *Caligus clemensi* sea lice were found on 49 of the juvenile chum salmon analyzed in the lab. There were 12 chum salmon infested with lice from both species.

For the coho salmon sample population, a single *Lepeophtheirus salmonis* sea louse was identified during lab analysis.

A comparison of the prevalence and abundance of sea lice found on chum salmon was completed for sample data from 2016 to 2020 collected in Clayoquot Sound, BC. This data is presented in a summary table in Appendix IV.

5.0 References

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Appendix I – Field Data

Date	Time	Site Name	Salinity (ppt) 0.2 m	Temperature (° C) 0.2 m
03-24-20	9:32	SD1	27.0	7.6
03-24-20	9:58	SI1	30.9	9.5
03-24-20	10:23	SI2	27.2	8.4
03-24-20	10:49	SI3	14.3	8.7
03-24-20	11:13	MC1	29.9	9.8
03-24-20	11:33	MC3	30.1	9.2
03-24-20	12:09	HI1	16.5	9.7
03-24-20	12:32	HI2	29.2	9.2
03-24-20	13:08	BS1	28.1	10.0
03-24-20	13:30	BS2	29.9	9.6
03-24-20	13:51	BS3	19.0	9.9
03-25-20	9:36	FC3	28.8	8.4
03-25-20	9:47	FC2	28.4	8.7
03-25-20	10:10	FC4	28.8	8.3
03-25-20	10:47	FC5	28.8	9.5
03-25-20	11:22	BS6	28.2	8.7
03-25-20	11:51	BS5	22.5	10.5
03-25-20	12:57	BS4	28.2	9.1
04-08-20	8:03	FC3	29.8	8.7
04-08-20	8:25	FC2	29.3	8.3
04-08-20	8:44	FC4	29.4	8.5
04-08-20	8:59	FC5	30.5	8.5
04-08-20	9:27	BS6	30.5	8.6
04-08-20	10:08	BS5	27.5	9.4
04-08-20	10:43	BS4	24.7	9.7
04-08-20	11:11	BS2	30.5	10.8
04-08-20	11:36	BS1	29.8	11.7
04-08-20	12:12	BS3	29.5	12.6
04-09-20	8:37	SD1	19.6	8.8
04-09-20	9:01	SI1	30.0	10.0
04-09-20	9:18	SI2	29.7	10.2
04-09-20	9:45	SI3	29.5	11.4
04-09-20	10:10	MC1	30.9	10.7
04-09-20	10:29	MC3	29.2	11.1
04-09-20	11:13	HI1	19.4	14.7
04-09-20	11:36	HI2	28.2	12.3
04-29-20	9:01	FC3	21.7	9.6
04-29-20	9:16	FC2	22.2	9.9
04-29-20	9:35	FC4	16.9	9.1
04-29-20	10:00	FC5	20.8	9.8
04-29-20	10:22	BS6	21.3	9.9
04-29-20	10:55	BS5	16.9	9.4
04-29-20	11:19	BS4	24.1	9.8

Date	Time	Site Name	Salinity (ppt) 0.2 m	Temperature (° C) 0.2 m
04-29-20	11:54	BS3	12.6	9.8
04-30-20	8:57	SD1	15.4	9.6
04-30-20	9:23	SI1	24.7	10.5
04-30-20	9:38	SI2	17.0	10.4
04-30-20	10:09	SI3	6.2	10.6
04-30-20	10:37	MC1	21.0	11.6
04-30-20	10:59	MC3	21.5	11.4
04-30-20	11:28	HI1	8.4	10.6
04-30-20	11:48	HI2	16.4	11.0
04-30-20	12:28	BS1	20.1	12.3
04-30-20	12:52	BS2	15.2	10.9
05-12-20	8:50	SD1	26.0	13.3
05-12-20	9:07	SI1	28.7	12.5
05-12-20	9:25	SI2	23.9	13.0
05-12-20	9:49	SI3	18.1	12.8
05-12-20	10:09	MC1	30.1	13.1
05-12-20	10:25	MC3	25.9	13.8
05-12-20	10:57	HI1	9.3	12.4
05-12-20	11:12	HI2	11.4	12.3
05-12-20	11:49	BS1	28.9	12.8
05-12-20	12:06	BS2	24.2	13.1
05-13-20	8:13	FC3	28.6	12.1
05-13-20	8:26	FC2	27.6	12.0
05-13-20	8:46	FC4	19.5	11.3
05-13-20	9:03	FC5	28.9	11.5
05-13-20	9:20	BS6	27.2	11.7
05-13-20	9:48	BS5	7.9	10.3
05-13-20	10:12	BS4	6.2	11.5
05-13-20	10:37	BS3	14.9	11.8
05-28-20	7:50	FC3	10.3	14.1
05-28-20	8:06	FC2	25.7	14.4
05-28-20	8:23	FC4	24.6	14.2
05-28-20	8:38	FC5	26.5	14.3
05-28-20	8:53	BS6	23.4	14.4
05-28-20	9:19	BS5	12.5	14.6
05-28-20	9:40	BS4	20.5	16.0
05-28-20	10:04	BS2	15.8	15.6
05-28-20	10:21	BS1	27.3	15.8
05-28-20	10:40	BS3	25.0	16.5
05-29-20	8:25	SD1	26.9	14.5
05-29-20	8:47	SI1	29.1	12.9
05-29-20	9:00	SI2	27.6	13.9
05-29-20	9:21	SI3	14.9	14.4
05-29-20	9:43	MC3	27.5	14.6
05-29-20	10:02	MC1	24.7	16.8

Date	Time	Site Name	Salinity (ppt) 0.2 m	Temperature (° C) 0.2 m
05-29-20	10:29	H11	10.0	16.6
05-29-20	10:50	H12	14.1	16.0

Appendix II – Capture and Collection Sample Totals

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	TSB Captured	TSB Retained	Salmonid Mortalities	Comments
03-24-20	9:32	SD1	Sunny	Low	0	0	21	21	0	0	5	0	0	0	0	0	0	Turban snail, 4 sandlance
03-24-20	9:58	SI1	Sunny	Low	0	0	27	27	0	0	0	0	0	0	0	0	0	2 sculpin, 2 shrimp, 1 sanddab
03-24-20	10:23	SI2	Sunny, calm	Low	0	0	145	30	0	0	0	0	0	0	0	0	0	2 sculpin
03-24-20	10:49	SI3	Sunny, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
03-24-20	11:13	MC1	Sunny, calm	Low	0	0	6	6	0	0	0	0	0	0	0	0	0	2 sculpin, set further north than shown on GPS
03-24-20	11:33	MC3	Sunny, calm	Low	0	0	3	3	0	0	0	0	0	0	0	0	0	Sanddab, 1 red rock crab
03-24-20	12:09	HI1	Sunny, calm	Mid	0	0	53	30	0	0	0	0	0	0	0	0	0	
03-24-20	12:32	HI2	Sunny, calm	Mid	0	0	1	1	0	0	0	0	0	0	0	0	0	1 twist in net
03-24-20	13:08	BS1	Sunny, light breeze	Mid	0	0	1	1	0	0	0	0	0	0	0	0	0	Sanddabs, 1 twist in net
03-24-20	13:30	BS2	Sunny, calm	Mid	0	0	10	10	0	0	0	0	0	0	0	0	0	1 twist in net
03-24-20	13:51	BS3	Sunny, breeze	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
03-25-20	9:36	FC3	Sunny, calm	Low	0	0	6	5	0	0	0	0	0	0	0	0	0	2 pipefish, 1 eelpout, 1 sculpin
03-25-20	9:47	FC2	Sunny, calm	Low	0	0	3	3	0	0	0	0	0	0	0	0	0	Pipefish, tubesnouts, sandlances, sculpins, hermit crab
03-25-20	10:10	FC4	Sunny, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Abundant sculpin, 2 pipefish
03-25-20	10:47	FC5	Sunny, calm	Low	0	0	1	1	0	0	0	0	0	0	0	0	0	1 pipefish, lots of rocks
03-25-20	11:22	BS6	Sunny, calm	Low	0	0	41	30	0	0	0	0	0	0	0	0	0	Rocks
03-25-20	11:51	BS5	Sunny, calm	Low	0	0	510	30	0	0	0	0	0	0	0	0	10	
03-25-20	12:57	BS4	Sunny, calm	Mid	0	0	175	30	0	0	0	0	0	0	0	0	0	Site with log
04-08-20	8:03	FC3	Sun, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Pipefish, tubesnouts, gunnels, sculpin, kelp crab
04-08-20	8:25	FC2	Sun, calm	Low	0	0	2	2	0	0	0	0	0	0	1	0	0	Sculpin, tubesnout, pipefish, perch, tide
04-08-20	8:44	FC4	Sun, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Gunnels, sculpins, tubesnouts, pipefish, tide
04-08-20	8:59	FC5	Sun, calm	Low	0	0	126	30	0	0	0	0	0	0	0	0	0	Set across the channel because of tide. Sculpins, tubesnouts, pipefish, sanddabs
04-08-20	9:27	BS6	Sun, calm	Low	0	0	43	30	0	0	0	0	0	0	0	0	0	Sculpins, sanddabs
04-08-20	10:08	BS5	Sun, calm	Low	0	0	57	30	0	0	0	0	0	0	0	0	0	Sculpins, sanddabs
04-08-20	10:43	BS4	Sun, calm	Low	0	0	1	1	0	0	0	0	0	0	0	0	0	No bycatch
04-08-20	11:11	BS2	Sun, calm	Mid	0	0	8	8	0	0	0	0	0	0	0	0	0	1 sculpin
04-08-20	11:36	BS1	Sun, calm	Mid	0	0	164	30	0	0	0	0	0	0	0	0	5	Sanddabs
04-08-20	12:12	BS3	Sun, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
04-09-20	8:37	SD1	Calm	Low	0	0	1	1	0	0	0	0	0	0	0	0	0	Pipefish, gunnel
04-09-20	9:01	SI1	Clear, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	1 sculpin, sanddabs
04-09-20	9:18	SI2	Calm	Low	0	0	327	30	0	0	0	0	0	0	0	0	0	2 mergansers on site. Juvenile rockfish, pipefish, sanddabs
04-09-20	9:45	SI3	Sunny, calm	Low	0	0	5	5	0	0	2	0	0	0	0	0	0	Sanddabs, sculpins, pipefish. Ahousesht joined to shadow
04-09-20	10:10	MC1	Calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Tubesnouts, sanddabs

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	TSB Captured	TSB Retained	Salmonid Mortalities	Comments
04-09-20	10:29	MC3	Calm	Low	0	0	76	30	0	0	0	0	0	0	0	0	0	Sculpins, perch, pipefish, tubesnouts, greenlings
04-09-20	11:13	HI1	Calm	Low	0	0	5	5	0	0	0	0	0	0	0	0	0	No bycatch
04-09-20	11:36	HI2	Slight chop	Low	0	0	20	20	0	0	0	0	0	0	0	0	0	No bycatch
04-29-20	9:01	FC3	Cloud, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	1 juvenile lingcod, perch, sculpin, pipefish
04-29-20	9:16	FC2	Cloud, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	Sculpins
04-29-20	9:35	FC4	Rain, calm	Mid	0	0	1	1	0	0	0	0	0	0	0	0	0	Red rock crab, kelp crab, gunnels, perch, juvenile lingcod, sculpins, sanddabs, tubesnout
04-29-20	10:00	FC5	Rain, calm	Mid	0	0	14	14	0	0	0	0	0	0	0	0	0	Sculpins. Called Ahousaht on radio no response
04-29-20	10:22	BS6	Rain, calm	Mid	0	0	127	30	0	0	0	0	0	0	0	0	0	Sculpins, gunnels, rockfish, kelp crabs
04-29-20	10:55	BS5	Rain, calm	Mid	0	0	2	2	0	0	1	0	0	0	0	0	0	No bycatch
04-29-20	11:19	BS4	Rain, calm	Mid	0	0	61	30	4	4	3	0	0	0	0	0	1	Sculpins, pipefish, sanddabs
04-29-20	11:54	BS3	Rain, calm	Low	0	0	4	4	11	11	4	0	0	0	0	0	0	Sanddabs, pipefish, juvenile lingcod, sculpins
04-30-20	8:57	SD1	Light swell, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	2 perch, 1 juvenile lingcod. Ahousaht joined at end of set.
04-30-20	9:23	SI1	Calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	Juvenile lingcod, sculpins, tubesnout
04-30-20	9:38	SI2	Calm, overcast	Mid	0	0	58	30	3	3	0	0	0	0	0	0	0	Tubesnouts, juvenile lingcod
04-30-20	10:09	SI3	Calm, overcast	Low	0	0	11	11	1	1	15	0	0	0	0	0	0	Tubesnouts, sanddabs, sculpins
04-30-20	10:37	MC1	Calm, overcast	Mid	0	0	0	0	8	8	1	0	0	0	0	0	0	Pipefish
04-30-20	10:59	MC3	Calm, overcast	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Juvenile lingcod, gunnels, perch, pipefish
04-30-20	11:28	HI1	Calm, overcast	Low	0	0	3	3	0	0	0	0	0	0	0	0	0	Sea cucumber, sea urchin, sculpins
04-30-20	11:48	HI2	Calm, sunny	Low	0	0	2	2	0	0	0	0	0	0	0	0	0	Tubesnouts
04-30-20	12:28	BS1	Low overcast, calm	Low	0	0	14	14	0	0	0	0	0	0	16	0	0	Sculpins, pipefish, juvenile lingcod, dungeness
04-30-20	12:52	BS2	Low overcast, calm	Low	0	0	220	30	0	0	0	0	0	0	0	0	0	Juvenile lingcod, sculpins, sanddabs, kelp crabs
05-12-20	8:50	SD1	Calm, overcast	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	Set at new location opposite of original site. Shiner perch
05-12-20	9:07	SI1	Calm, overcast	Low	0	0	9	9	0	0	0	0	0	0	0	0	0	Juvenile lingcod, flounder, pipefish, kelp crab
05-12-20	9:25	SI2	Calm, overcast	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	4 green crabs, gunnels, sculpins, pipefish, juvenile lingcod, flounder, sanddabs. Ahousaht came at end of set
05-12-20	9:49	SI3	Calm, overcast	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05-12-20	10:09	MC1	Calm, overcast	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	2 pipefish
05-12-20	10:25	MC3	Calm, overcast	Low	0	0	13	13	0	0	0	0	0	0	0	0	0	Gunnel, pipefish, shiner perch

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	TSB Captured	TSB Retained	Salmonid Mortalities	Comments
05-12-20	10:57	HI1	Calm, overcast	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05-12-20	11:12	HI2	Calm, overcast	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05-12-20	11:49	BS1	Calm, overcast	Low	0	0	28	28	0	0	0	0	0	0	0	0	0	Pipefish, sculpin
05-12-20	12:06	BS2	Calm, overcast	Low	0	0	10	10	0	0	0	0	0	0	0	0	0	Juvenile lingcod
05-13-20	8:13	FC3	Cloud, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05-13-20	8:26	FC2	Cloud, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05-13-20	8:46	FC4	Cloud, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	Pile perch, gunnel, juvenile lingcod, sculpin
05-13-20	9:03	FC5	Cloud, calm	High	0	0	7	7	0	0	0	0	0	0	0	0	0	No bycatch
05-13-20	9:20	BS6	Cloud, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	1 pile perch, 2 pipefish
05-13-20	9:48	BS5	Cloud, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught. Flippers out deeper. High tide couldn't get past the drop
05-13-20	10:12	BS4	Cloud, calm	Mid	0	0	0	0	0	0	2	0	0	0	0	0	0	Pile perch, striped perch, juvenile rockfish
05-13-20	10:37	BS3	Cloud, waves	Mid	0	0	1	1	1	1	16	0	0	0	0	0	0	5 green crabs, juvenile lingcod, sanddabs, 1 steelhead
05-28-20	7:50	FC3	Cloud, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	3 pile perch, 1 shiner perch, 1 red rock crab, 1 gobi, 1 gunnel, 1 juvenile lingcod
05-28-20	8:06	FC2	Cloud, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	1 pile perch, 1 gunnel
05-28-20	8:23	FC4	Cloud, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	1 greenling, sculpins, sanddabs, gunnels, pipefish, juvenile lingcod
05-28-20	8:38	FC5	Cloud, sun, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	Many juvenile dungeness, gunnels, sculpins
05-28-20	8:53	BS6	Cloud, sun, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	3 juvenile rockfish, pile perch, kelp perch, shiner perch
05-28-20	9:19	BS5	Cloud, sun, calm	Mid	0	0	0	0	0	0	2	0	0	0	0	0	0	4 green crabs, sculpins
05-28-20	9:40	BS4	Sun, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	7 rockfish, sculpins, shiner perch
05-28-20	10:04	BS2	Sun, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	1 green crab, many juvenile lingcod, sculpins, 2 red rock crab
05-28-20	10:21	BS1	Sun, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Juvenile lingcod, sculpins, sanddabs, kelp crabs, gunnels
05-28-20	10:40	BS3	Sun, calm	Low	0	0	0	0	0	0	1	0	0	0	0	0	0	29 green crabs, pipefish, many juvenile lingcod, sculpins
05-29-20	8:25	SD1	Calm, overcast	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	Shiner perch, kelp perch, striped perch, pile perch
05-29-20	8:47	SI1	Sunny, light chop	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	4 green crabs, pipefish, juvenile lingcod, kelp crab
05-29-20	9:00	SI2	Sunny, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	4 green crab, striped perch, pipefish, 1 flounder
05-29-20	9:21	SI3	Sunny, calm	Mid	0	0	6	6	0	0	0	0	0	0	0	0	0	3 green crabs, pipefish, pile perch, dungeness crab

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	TSB Captured	TSB Retained	Salmonid Mortalities	Comments
05-29-20	9:43	MC3	Sunny, calm	Low	0	0	1	1	1	1	2	0	0	0	0	0	0	Pile perch, juvenile lingcod
05-29-20	10:02	MC1	Sunny, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Shiner perch, pile perch, gunnels, flounder, sculpins, pipefish
05-29-20	10:29	HI1	Sunny, light chop	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	Pile perch, shiner perch, sea cucumber, abundant perch
05-29-20	10:50	HI2	Sunny, light chop	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	2 sea cucumbers

Appendix III – Sea Lice Analysis Data

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
24-Mar-20	BS2	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	44	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS2	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI2	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	38	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	37	0.7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	39	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	35	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	48	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	48	1.4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	34	0.4	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
24-Mar-20	SI2	Chum	36	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI2	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	41	0.7	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	45	1.1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
24-Mar-20	SI1	Chum	34	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	39	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	40	0.9	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	34	0.5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	47	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
24-Mar-20	SI1	Chum	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	39	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	44	1.0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	41	0.8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
24-Mar-20	SI1	Chum	47	1.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SI1	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	BS1	Chum	37	0.5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
24-Mar-20	MC1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC1	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC1	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC1	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC3	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC3	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	MC3	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	33	0.4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	33	0.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	33	0.3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	35	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	33	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.5	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
24-Mar-20	SD1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	SD1	Chum	33	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-Mar-20	HI1	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
25-Mar-20	BS6	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS6	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC3	Chum	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC2	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC3	Chum	48	1.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC3	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC3	Chum	51	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	FC3	Chum	51	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	46	2.1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	41	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS5	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
25-Mar-20	BS5	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	39	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	33	0.3	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25-Mar-20	BS4	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	55	1.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	44	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	49	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	58	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	52	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	40	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	49	1.3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	45	1.0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	43	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	34	0.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	34	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
8-Apr-20	BS1	Chum	39	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	57	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	40	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	47	1.2	0	0	1	0	2	0	0	0	0	0	0	2	0	0	0	0
8-Apr-20	BS1	Chum	55	2.1	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	36	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	48	1.1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	48	1.4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	40	0.9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	41	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	42	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	36	0.5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	41	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS6	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
8-Apr-20	BS5	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	39	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS5	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	39	0.8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	38	0.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	40	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	43	1.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC5	Chum	40	0.8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
8-Apr-20	FC5	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS4	Chum	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	47	1.1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	47	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	52	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	BS2	Chum	49	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8-Apr-20	FC2	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI1	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI1	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI1	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI1	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI1	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	36	0.6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	41	0.8	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	HI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	36	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	34	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	40	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	39	0.6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	41	0.8	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	45	1.2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	38	0.6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	37	0.2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
9-Apr-20	MC3	Chum	43	1.0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	43	1.0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	37	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	40	1.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	43	0.9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	38	0.7	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
9-Apr-20	MC3	Chum	37	0.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	44	0.9	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	34	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	MC3	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI3	Chum	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI3	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI3	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI3	Chum	39	0.8	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
9-Apr-20	SI3	Chum	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SD1	Chum	40	0.8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	38	0.7	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	36	0.6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	40	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	40	0.9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	40	0.8	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	38	0.6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	40	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	35	0.6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	37	0.7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	37	0.6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
9-Apr-20	SI2	Chum	41	0.8	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9-Apr-20	SI2	Chum	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS5	Chum	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS5	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC4	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Chum	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Chum	44	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	82	6.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	74	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	65	4.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	76	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	93	10.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	70	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	80	6.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	72	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	81	6.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	81	5.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS3	Coho	85	8.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	38	0.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	39	0.7	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
29-Apr-20	BS6	Chum	42	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	42	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	45	1.2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
29-Apr-20	BS6	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	50	1.2	1	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
29-Apr-20	BS6	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS6	Chum	49	1.4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
29-Apr-20	BS6	Chum	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	40	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	41	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	45	1.0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	42	0.7	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	54	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	36	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0
29-Apr-20	BS4	Chum	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	46	1.2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Chum	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Coho	87	7.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Coho	72	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Coho	81	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	BS4	Coho	80	6.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	39	0.6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	42	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	47	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	48	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	42	0.9	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
29-Apr-20	FC5	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-Apr-20	FC5	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	HI1	Chum	40	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
30-Apr-20	HI1	Chum	46	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	HI1	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	HI2	Chum	58	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	HI2	Chum	56	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	47	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	62	2.3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
30-Apr-20	BS1	Chum	57	2.2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
30-Apr-20	BS1	Chum	49	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	49	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	44	0.8	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	57	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	54	1.9	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
30-Apr-20	BS1	Chum	55	1.8	0	1	0	0	0	0	0	0	0	0	0	2	1	0	0	0
30-Apr-20	BS1	Chum	58	2.0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
30-Apr-20	BS1	Chum	59	2.5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	53	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS1	Chum	54	2.1	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0
30-Apr-20	BS1	Chum	56	2.1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Coho	78	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	46	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI3	Chum	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	46	1.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	40	0.8	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	44	1.1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	40	0.7	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	54	1.7	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	46	1.0	3	1	0	0	0	0	0	0	7	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	48	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	53	1.7	0	0	0	0	1	0	0	0	11	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	45	1.0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	0
30-Apr-20	SI2	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0
30-Apr-20	SI2	Chum	41	0.9	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
30-Apr-20	SI2	Chum	39	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	43	0.8	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0
30-Apr-20	SI2	Chum	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	39	0.6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
30-Apr-20	SI2	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	45	1.0	0	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Chum	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Coho	70	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Coho	80	6.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	SI2	Coho	79	6.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	46	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	40	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	46	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	42	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	61	3.3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	54	1.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	50	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	46	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	45	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	54	1.9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	44	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	48	1.4	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	50	1.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	44	1.2	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	40	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	44	1.1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	47	1.3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	44	1.1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	51	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	49	1.5	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	43	1.1	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	BS2	Chum	47	1.4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	MC1	Coho	82	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	MC1	Coho	75	5.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	MC1	Coho	78	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	MC1	Coho	80	7.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	MC1	Coho	73	5.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	MC1	Coho	71	5.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30-Apr-20	MC1	Coho	95	11.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
30-Apr-20	MC1	Coho	93	8.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	38	0.6	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	45	1.1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	58	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	46	1.3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	45	1.4	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	48	1.2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	53	1.7	1	0	0	2	0	1	1	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	49	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	53	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	46	1.1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	45	1.1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	MC3	Chum	49	1.6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	52	1.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	48	1.5	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	44	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	40	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	46	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	43	0.9	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	38	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	52	1.8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS2	Chum	47	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	47	1.4	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	50	1.4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	47	1.4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	57	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	53	1.8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
12-May-20	SI1	Chum	54	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	SI1	Chum	50	1.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	64	2.8	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	63	2.8	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	54	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	64	3.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	50	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	66	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	58	2.5	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	64	2.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	64	3.7	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	64	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	63	2.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	65	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	56	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	58	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	53	1.8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	69	4.4	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	58	2.8	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
12-May-20	BS1	Chum	54	2.0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	64	2.9	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	62	3.2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	59	2.5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	63	2.8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	54	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	59	2.7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
12-May-20	BS1	Chum	57	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	54	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12-May-20	BS1	Chum	64	2.8	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
12-May-20	BS1	Chum	53	1.7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
13-May-20	FC5	Chum	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	FC5	Chum	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	FC5	Chum	49	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	FC5	Chum	46	1.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	FC5	Chum	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	FC5	Chum	40	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	FC5	Chum	37	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	BS3	Chum	46	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13-May-20	BS3	Coho	67	4.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	MC3	Chum	29	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	MC3	Coho	79	6.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	SI3	Chum	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	SI3	Chum	26	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	SI3	Chum	24	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	SI3	Chum	32	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	SI3	Chum	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29-May-20	SI3	Chum	32	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix IV – Historical Comparison (2016-2020)

A comparison of the historical results of analysis for sea lice infestation on chum salmon collected by beach seine in Clayoquot Sound, BC from 2016 to 2020.

Year	Chum sample size	Total # of chum infested	Total # of lice observed	Prevalence (%)	Abundance	Intensity
2016	836	314	726	37.6	0.87	2.3
2017	1122	222	354	19.8	0.32	1.6
2018	696	284	1254	40.8	1.80	4.4
2019	792	305	922	38.5	1.16	3.0
2020	696	197	367	28.3	0.53	1.9
Total	4142	1322	3623	31.9	0.87	2.7

A comparison of calculated sea lice prevalence, abundance and intensity by site as determined for chum salmon collected in Clayoquot Sound between 2016 and 2020.

Site	# of Chum Analyzed					# of Infested Chum					# of Lice					Sea Lice Prevalence (%)					Sea Lice Abundance					Sea Lice Intensity				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
BS1	56	119	67	68	73	44	43	44	55	40	110	63	161	277	70	78.6	36.1	65.7	80.9	54.8	1.96	0.53	2.40	4.07	0.96	2.5	1.5	3.7	5.0	1.8
BS2	90	63	32	61	58	50	9	12	46	24	125	11	30	160	42	55.6	14.3	37.5	75.4	41.4	1.39	0.17	0.94	2.62	0.72	2.5	1.2	2.5	3.5	1.8
BS3	15	23	47	32	5	3	1	14	4	0	10	1	28	8	0	20.0	4.3	29.8	12.5	0.0	0.67	0.04	0.60	0.25	0.00	3.3	1.0	2.0	2.0	0.0
BS4	79	34	42	55	61	39	0	11	39	10	94	0	29	106	18	49.4	0.0	26.2	70.9	16.4	1.19	0.00	0.69	1.93	0.30	2.4	0.0	2.6	2.7	1.8
BS5	90	63	90	92	62	6	0	7	11	4	10	0	12	13	4	6.7	0.0	7.8	12.0	6.5	0.11	0.00	0.13	0.14	0.06	1.7	0.0	1.7	1.2	1.0
BS6	64	92	78	44	90	33	13	29	22	15	97	16	65	51	22	51.6	14.1	37.2	50.0	16.7	1.52	0.17	0.83	1.16	0.24	2.9	1.2	2.2	2.3	1.5
FC2	0	39	34	23	5	0	3	14	14	0	0	4	23	29	0	-	7.7	41.2	60.9	0.0	-	0.10	0.68	1.26	0.00	0.0	1.3	1.6	2.1	0.0
FC3	35	60	10	19	5	15	4	3	3	2	19	4	3	8	2	42.9	6.7	30.0	15.8	40.0	0.54	0.07	0.30	0.42	0.40	1.3	1.0	1.0	2.7	1.0
FC4	61	30	1	30	1	5	1	1	5	0	5	1	4	9	0	8.2	3.3	100.0	16.7	0.0	0.08	0.03	4.00	0.30	0.00	1.0	1.0	4.0	1.8	0.0
FC5	23	65	-	60	52	14	7	-	25	11	29	7	-	35	14	60.9	10.8	-	41.7	21.2	1.26	0.11	-	0.58	0.27	2.1	1.0	-	1.4	1.3
HI1	42	61	79	68	38	4	14	45	2	0	5	22	278	3	0	9.5	23.0	57.0	2.9	0.0	1.2	0.36	3.52	0.04	0.00	1.3	1.6	6.2	1.5	0.0
HI2	15	90	43	60	23	0	39	33	7	3	0	78	353	7	6	0.0	43.3	76.7	11.7	13.0	0.00	0.87	8.21	0.12	0.26	0.0	2.0	10.7	1.0	2.0
MC1	63	90	13	46	6	12	10	3	7	0	13	22	8	10	0	19.0	11.1	23.1	15.2	0.0	0.21	0.24	0.62	0.22	0.00	1.1	2.2	2.7	1.4	0.0
MC3	20	90	31	0	47	5	30	17	0	26	9	51	60	0	55	25.0	33.3	54.8	-	55.3	0.45	0.57	1.94	-	1.17	1.8	1.7	3.5	0.0	2.1
SD1	-	-	-	-	22	-	-	-	-	11	-	-	-	-	13	-	-	-	-	50.0	-	-	-	-	0.59	-	-	-	-	1.2
SI1	90	91	30	37	36	57	33	13	21	15	120	56	33	34	22	63.3	36.3	43.3	56.8	41.7	1.33	0.62	1.10	0.92	0.61	2.1	1.7	2.5	1.6	1.5
SI2	61	78	57	96	90	27	15	27	44	35	80	18	147	172	98	44.3	19.2	47.4	45.8	38.9	1.31	0.23	2.58	1.79	1.09	3.0	1.2	5.4	3.9	2.8
SI3	32	34	42	1	22	0	0	11	0	1	0	0	20	0	1	0	0.0	26.2	0.0	4.5	0.00	0.00	0.48	0.00	0.05	0.0	0.0	1.8	0.0	1.0
Total	836	1122	696	792	696	314	222	284	305	197	726	354	1254	922	367	37.6	19.8	40.8	38.5	28.3	0.87	0.32	1.80	1.16	0.53	2.3	1.6	4.4	3.0	1.9

A comparison of calculated sea lice prevalence, abundance and intensity by sampling area as determined for chum salmon collected in Clayoquot Sound between 2016 and 2020.

Site	# of Chum Analyzed					# of Infested Chum					# of Lice					Sea Lice Prevalence (%)					Sea Lice Abundance					Sea Lice Intensity				
	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020	2016	2017	2018	2019	2020
SI (3)	183	203	129	134	148	84	48	51	65	51	200	74	200	206	121	45.9	23.6	39.5	48.5	34.5	1.09	0.36	1.55	1.54	0.82	2.4	1.54	3.9	3.2	2.4
MC (2)	83	180	44	46	53	17	40	20	7	26	22	73	68	10	55	20.5	22.2	45.5	15.2	49.1	0.27	0.41	1.55	0.22	1.04	1.3	1.83	3.4	1.4	2.1
HI (2)	57	151	122	128	61	4	53	78	9	3	5	100	631	10	6	7.0	35.1	63.9	7.0	4.9	0.09	0.66	5.17	0.08	0.10	1.3	1.89	8.1	1.1	2.0
BS (6)	394	394	356	352	349	175	66	117	177	93	446	91	325	615	156	44.4	16.8	32.9	50.3	26.6	1.13	0.23	0.91	1.75	0.45	2.5	1.38	2.8	3.5	1.7
FC (4)	119	194	45*	132	63	34	7	18*	47	13	53	16	30*	81	16	28.6	7.7	40.0*	35.6	20.6	0.45	0.08	0.67*	0.61	0.25	1.6	1.07	1.7*	1.7	1.2
SD (1)	-	-	-	-	22	-	-	-	-	11	-	-	-	-	13	-	-	-	-	50.0	-	-	-	-	0.59	-	-	-	-	1.2
Total	836	1122	696	792	696	314	222	284	305	197	726	354	1254	922	367	37.6	19.8	40.8	38.5	28.3	0.87	0.32	1.80	1.16	0.53	2.3	1.6	4.4	3.0	1.9

*Three Fortune Channel sites were sampled in 2018 – FC2, FC3 and FC4. FC5 was not sampled in 2018.

The number of sea lice in each life stage by species identified on chum salmon from Clayoquot Sound between 2016 and 2020.
LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	Number of lice				
	2016	2017	2018	2019	2020
LEP Co	104	178	330	128	78
LEP C1	232	98	607	218	115
LEP C2	178	57	216	196	47
LEP NM Not ID	26	-	-	-	-
LEP PAM	50	1	22	19	16
LEP PAF	46	0	27	20	18
LEP AM	36	6	12	11	2
LEP AF	4	0	10	1	2
TOTAL LEP	676	340	1224	593	278
CAL Co	7	5	4	35	6
CAL C1	18	6	17	120	42
CAL C2	15	2	4	87	10
CAL C3	5	0	3	44	2
CAL C4	2	1	2	35	23
CAL NM Not ID	1				
CAL PAM	0	0	0	4	4
CAL PAF	1	0	0	3	1
CAL AM	0	0	0	0	1
CAL AF	0	0	0	1	0
CAL Mot Not ID	1				
TOTAL CAL	50	14	30	329	89

¹ Lice life stage codes: Co = copepodid, C1-4 = chalimus 1-4, NM Not ID = Non-motile lice not identified to a life stage, PAM = pre-adult male, PAF = pre-adult female, AM = adult male, AF = adult female, Mot Not ID = Motile lice not identified to a life stage or sex.