

Wild Juvenile Salmonid Monitoring Program Broughton Archipelago 2017

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Summary

Beach seine sampling was conducted on behalf of Marine Harvest Canada, Cermaq Canada and Grieg Seafood BC Ltd. in the Broughton Archipelago, BC in 2017. Sampling was completed to monitor sea lice abundance, prevalence and intensity on juvenile wild salmon and threespine stickleback within the Broughton Archipelago in support of the Aquaculture Stewardship Certification process for finfish aquaculture sites in the area.

Sampling was conducted during two separate sampling events in April and May 2017, selected to coincide with the peak outmigration period of juvenile salmonids. Sampling was completed at 32 sites within the Broughton Archipelago, BC. The sites were selected based on their locations relative to existing aquaculture sites located in the area and based on the historical abundance of juvenile salmon at each of the sites

Thirty individuals from each target fish species or the total number of captured individuals from each target species (if less than 30 were captured) were collected from each of the 32 sites during the sampling events. Total catch numbers of each species were recorded. Water quality measurements including temperature and salinity were recorded at each site during each sampling event.

Collected sample fish were frozen and delivered to the Center for Aquatic Health Sciences (CAHS) for laboratory analysis. Sea lice infestation data was tabulated by CAHS and provided to Mainstream Biological Consulting for reporting. Sea lice observed on the individual fish specimens during laboratory analysis were identified as either *Lepeophtheirus spp.* or *Caligus sp.* These lice are assumed to be *L. salmonis* and *C. clemensi* due to the lack of documented infestation of Pacific salmon by other species. The lice were recorded by life stage and the sex of pre-adult or adult motile lice was determined.

This data summary report documents the observed sea lice infestation rate on retained wild juvenile salmon collected in the Broughton Archipelago in 2017. A total of 995 individual samples underwent lab analysis for sea lice infestation including 562 chum salmon (*Oncorhynchus keta*), 411 pink salmon (*Oncorhynchus gorbuscha*), 19 coho salmon (*Oncorhynchus kisutch*), two chinook salmon (*Oncorhynchus*

tschawytscha) and one threespine stickleback (*Gasterosteus aculeatus*). No Atlantic salmon (*Salmo salar*) were captured during sampling completed in the Broughton Archipelago in 2017. From the total sample population 211 individuals were infested with 400 sea lice. The calculated prevalence for the total sample population was 21.2 % and the sea lice abundance was 0.40 for the sample population collected in the Broughton Archipelago in 2017.

A total of 2438 chum salmon were captured, representing 52.9 % of all captured samples. Of the 2438 chum captured, 562 were kept for lab analysis for sea lice infestation. A total of 131 chum smolts were found to be infested with 257 lice resulting in a calculated prevalence of 23.3 % and an abundance of 0.46 for the chum salmon sample population.

A total of 2149 pink salmon were captured, representing 46.6 % of all captured samples. Of the 2149 pinks captured, 411 were kept for lab analysis for sea lice infestation. A total of 77 pink salmon were found to be infested with 130 lice resulting in a calculated prevalence of 18.7 % and an abundance of 0.32 for the pink salmon sample population.

A total of 19 coho salmon were captured, retained and analyzed for sea lice infestation. Of the 19 samples only two coho salmon were found to be infested by eight lice resulting in a calculated prevalence of 10.5 % and an abundance of 0.42 for the coho salmon sample population.

A total of two chinook and one threespine stickleback were captured, retained and analyzed for sea lice infestation. The chinook samples were found to not be infested with sea lice while the stickleback was found to be infested with five lice.

A total of 124 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 92 samples and 276 *Caligus clemensi* sea lice were found on 163 of the samples analyzed in the lab. There were 44 individuals that were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

For the chum salmon sample population, a total of 81 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 62 juvenile chum salmon and 176 *Caligus*

clemensi sea lice were found on 98 of the juvenile chum salmon. There were 29 juvenile chum salmon that were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

For the pink salmon sample population, a total of 37 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 27 juvenile pink salmon and 93 *Caligus clemensi* sea lice were found on 62 of the juvenile pink salmon. There were 12 juvenile pink salmon that were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

For the coho salmon sample population, two coho were infested with both species of lice with a total of three *Lepeophtheirus salmonis* and five *Caligus clemensi*. The two chinook salmon analyzed were found to have no sea lice. The single threespine stickleback collected was found to be infested with three *Lepeophtheirus salmonis* and two *Caligus clemensi* sea lice.

The 2017 sampling represents the second year of monitoring completed in April and May. A comparison of the prevalence, abundance and average intensity of sea lice infestation by sea lice species found on chum and pink salmon was completed for 2016 and 2017 sample data collected in the Broughton Archipelago. This data is presented in the following summary tables:

Chum by Year	<i>Caligus clemensi</i>			<i>Lepeophtheirus salmonis</i>		
	Prevalence	Abundance	Average Intensity	Prevalence	Abundance	Average Intensity
2016 (n=512)	20.3 %	0.3	1.6	13.3 %	0.2	1.4
2017 (n=562)	17.4 %	0.3	1.8	11.0 %	0.1	1.3

Pink by Year	<i>Caligus clemensi</i>			<i>Lepeophtheirus salmonis</i>		
	Prevalence	Abundance	Average Intensity	Prevalence	Abundance	Average Intensity
2016 (n=430)	24.4 %	0.3	1.3	15.3 %	0.2	1.5
2017 (n=411)	15.1 %	0.2	1.5	6.6 %	0.1	1.4

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1.0 Introduction

At the request of Marine Harvest Canada, Cermaq Canada and Grieg Seafood BC Ltd. beach seine sampling to capture wild juvenile salmon and threespine stickleback to be analyzed for sea lice infestation took place at 32 sites located in the Broughton Archipelago, BC (Figure 1). The sample collection occurred on April 5/6/7 and May 15/16/17, 2017. These dates were selected to coincide with the estimated peak outmigration dates of juvenile salmonids.

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). *Caligus clemensi* infest an extremely wide range of natural hosts in the marine environment including salmonids and non-salmonids; while *L. salmonis* natural hosts on the Pacific coast have been found to include Pacific salmon, threespine stickleback and Pacific herring. *Lepeophtheirus* spp. sea lice found on salmonid specimens were assumed to be *L. salmonis* due to the lack of documented infestations 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 four 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.

Water temperature and salinity are two environmental variables that influence sea lice development, growth, survival and reproductive rate. In British Columbia, surface seawater temperatures range from approximately 6 °C to 13 °C. Research on sea lice abundance conducted in the Broughton Archipelago and elsewhere on the coast of British Columbia indicates that surface water temperature during the winter months does

not appear to hinder the season abundance of *L. salmonis* (Saksida et al. 2007a, b). The rate of development and the generation times for *C. elongates* are strongly temperature dependent (Tully 1992) and although this research has not been conducted, similar relationships with temperature are to be expected for *C. clemensi* (Jones and Johnson, 2015). Survival and development of *L. salmonis* is optimal in high salinity seawater. Under laboratory conditions copepodid survival was limited to conditions where salinity was greater than 10 ppt (Johnson and Albright, 1991b).

Marine Harvest Canada, Cermaq Canada and Grieg Seafood BC Ltd. requested monitoring of sea lice abundance, prevalence and intensity on juvenile wild salmon within the Broughton Archipelago in support of the Aquaculture Stewardship Certification for their aquaculture sites within the area. This data summary report documents the observed sea lice infestation rates on retained juvenile salmonids and threespine stickleback collected in the Broughton Archipelago in 2017.

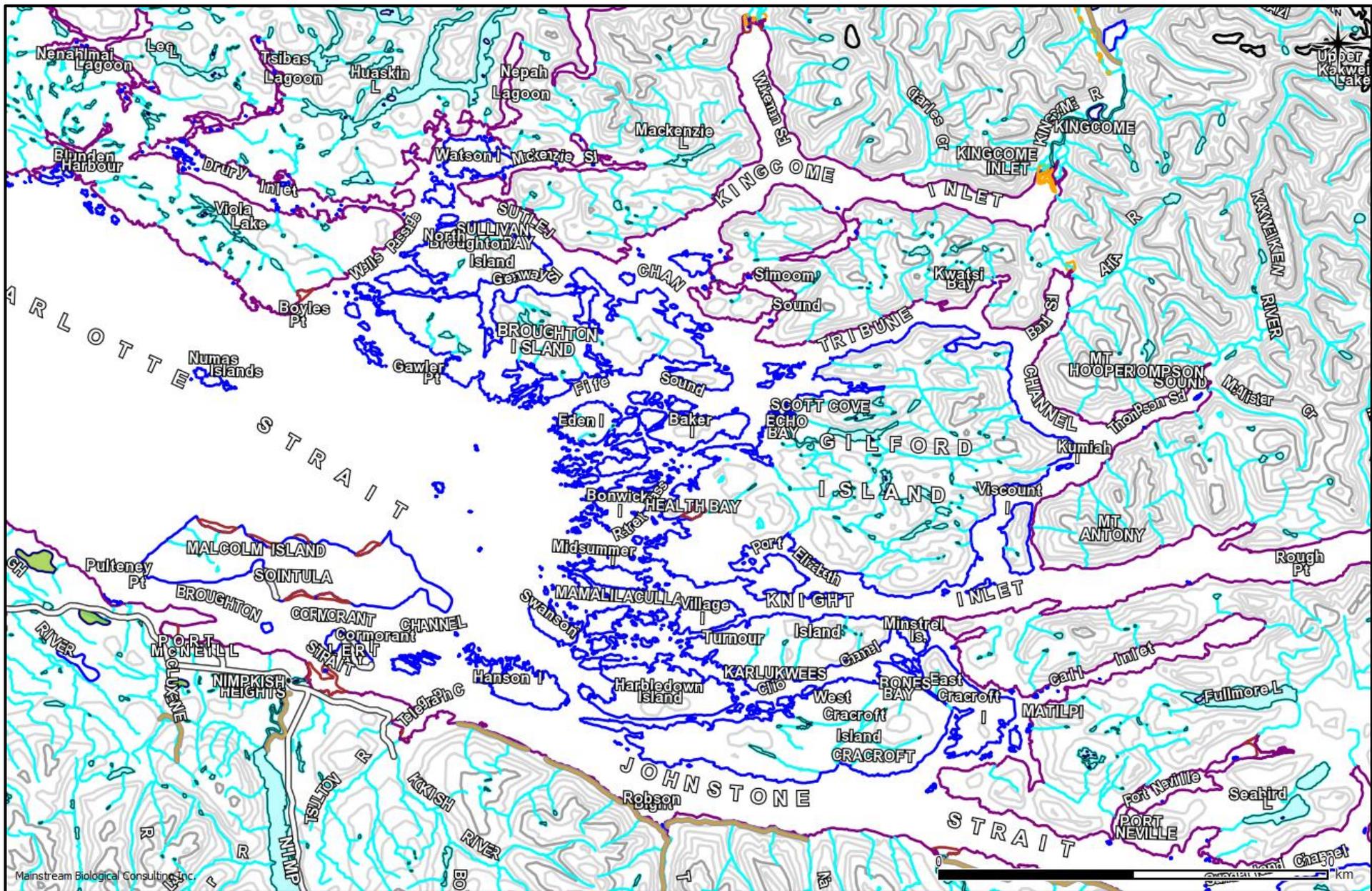


Figure 1: An overview map showing the location of the Broughton Archipelago located northeast of Port McNeill, BC.

2.0 Methods

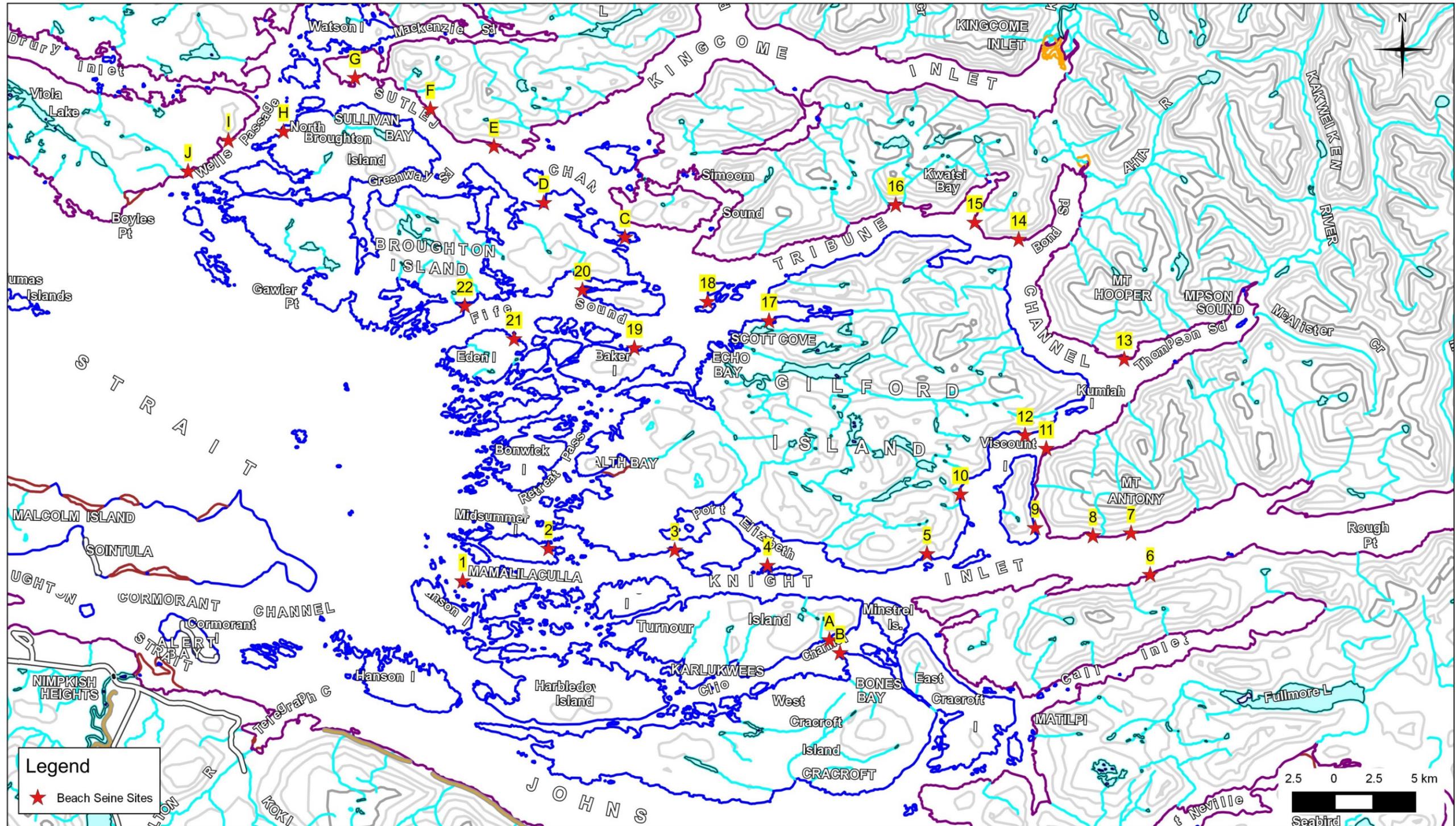
The fish inspected for sea lice infestation were collected from 32 sites in the Broughton Archipelago, BC (Figure 2). These sites were chosen based on their locations relative to existing aquaculture sites in the area and adapted from sites sampled in 2010-2012. Each site was sampled once during two sampling weeks: April 5, 6 and 7, 2017 and May 15, 16, and 17, 2017.

2.1 Site Locations

The approximate locations of the 32 sites at which beach seining was conducted to collect specimens for sea lice analysis are shown in Figure 2. GPS coordinates collected in the field for the sites are presented in Table 1.

Table 1: The site number and location of the 32 beach seine sites where fish were collected for sea lice analysis in the Broughton Archipelago in 2017.

Site #	Site Name	Latitude	Longitude
1	Swanson Island Fish Farm	50 37.246	126 42.087
2	Midsummer Island Fish Farm (Potts Bay)	50 38.897	126 37.289
3	Chop Bay	50 39.038	126 30.445
4	Lady Island	50 38.523	126 25.789
5	Doctor Island Fish Farm	50 39.355	126 17.211
6	Brent Bay	50 38.746	126 06.200
7	Shelterless Bay	50 40.417	126 06.537
8	Lance Bay	50 40.329	126 08.951
9	Sargeaunt Pass	50 40.220	126 11.731
10	Humphrey Rock	50 41.640	126 15.762
11	Pumish Point	50 42.994	126 11.338
12	Oline Point	50 43.524	126 12.681
13	London Point	50 46.252	126 08.514
14	Miller Point	50 50.026	126 13.518
15	Kwatsi Point	50 50.411	126 15.583
16	Glacier Falls Fish Farm	50 50.935	126 19.435
17	Viner Sound	50 46.818	126 26.086
18	Denham Island	50 47.339	126 29.494
19	Baker Island	50 45.695	126 33.389
20	Jumper Island	50 47.601	126 36.075
21	Arthur Point	50 46.102	126 40.198
22	Wicklow Bay	50 46.831	126 42.303
A	Bennett Point Fish Farm (Noo-La)	50 36.563	126 22.023
B	Sambo Point	50 06.110	126 20.618
C	Penphrase Passage	50 49.682	126 34.665
D	Harry Bay	50 50.334	126 38.389
E	Phillip Point West	50 52.322	126 41.107
F	Sutlej North	50 53.281	126 44.573
G	Codrington Point	50 54.304	126 48.689
H	Wehlis Bay Fish Farm	50 52.018	126 55.028
I	Alder Bay	50 52.349	126 52.435
J	Poppelwell Point	50 50.963	126 57.041



Datum: NAD83
 Projection: UTM Zone 9N
 Map Base: Integrated Cadastral Fabric (DataBC Map Services)

Map created:
 08/03/2016

Figure 2: The approximate locations of the 32 beach seine sites (red stars) in the Broughton Archipelago sampled in 2017.

2.2 Field Procedures

Procedures for beach seining, fish collection and field data recording adapted from procedures utilized by the Department of Fisheries and Oceans (DFO) were used for juvenile salmon sampling by Mainstream Biological Consulting staff during sampling in the Broughton Archipelago in 2017.

An 18ft Boston Whaler, powered by a 60 horsepower outboard motor, was used to access the beach seine 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 32 selected 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. 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, the probe of a YSI85 water meter was placed just below the water surface at the stern end of the boat, to collect salinity and water temperature data. The YSI85 meter was calibrated daily.

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 three crew members 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 whirlpac bag. All handling of fish was kept to a minimum.

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 number (Site 1-22, A-J);
- 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; and
- Water temperature (°C) and salinity (ppt) to one decimal place.

The retained fish from each site were packaged separately in re-sealable bags and labelled with the site number (Site 1-22, A-J) and the week number (Week 1 or 2). Site sample bags were placed in a portable freezer, which was plugged into the boat's

battery. The specimens were transferred to a freezer immediately 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. The YSI85 meter was shut off and stored, and all gear and coolers were reloaded into the boat.

The above procedures for beach seine net deployment and retrieval, as well as those described for fish collection, were repeated at all 32 sample sites.

2.3 Laboratory Procedures

Collected sample fish were frozen and delivered to the Center for Aquatic Health Sciences (CAHS) for laboratory analysis. Sea lice observed on the individual fish specimens during laboratory analysis were identified as either non-motile chalimus, or motile pre-adults and adults. Lice identified as being in any of the four chalimus stages were identified as *Lepeophtheirus salmonis* or *Caligus clemensi*. Motile lice, either pre-adults or adults, were identified as either *Lepeophtheirus salmonis* or *Caligus clemensi* and the sex of the louse was determined. Sea lice infestation data was tabulated by CAHS and provided to Mainstream Biological Consulting for reporting.

Data provided by CAHS also included measured fork length in millimetres and weight (recorded to the nearest tenth of a gram). Lengths and weights were recorded with the specimen's corresponding sea lice analysis results.

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 for each sample week.

Beach seine fish sample composition was summarized by species and site for each week. The recorded fork lengths and weights of the juvenile chum and pink salmon sample population were summarized to present minimum and maximum values as well as calculated averages. This analysis was not completed for other species as there were insufficient capture totals to warrant analysis. 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 and for chum, pink and coho salmon. Abundance, as defined as the total number of sea lice observed compared to the total number of host fish examined, was also determined for the sample population and chum, pink and coho salmon. The intensity of sea lice infestation, as described by the number of sea lice found on a single salmon was summarized. Average intensity was calculated by dividing the total number of sea lice identified by the number of infested fish

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 infestation analysis of juvenile salmonids and threespine stickleback collected from the Broughton Archipelago, BC, in 2017. Water quality field data is presented in Appendix I, beach seine fish capture data is included in Appendix II and data on the sample population including sea lice lab analysis results provided by CAHS 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 32 sites during the sample period are presented in Table 2. The field data recorded at each site, which includes data collected at the surface, 1.0 m depth if possible and 5.0 m depth if possible, is included in Appendix I.

Recorded surface water temperatures ranged from a low of 8.0 °C recorded at Site 3 on April 5, 2017, to a high of 18.9 °C recorded at Site 19 on May 16, 2017 (Table 2; Appendix I). Calculated weekly average surface water temperatures increased from 8.5 °C for April 5/6/7, 2017, to 14.5 °C for May 15/16/17, 2017.

Recorded surface water salinity ranged from a low of 7.9 ppt recorded at Site E on May 17, 2017, to a high of 31.7 ppt recorded at Site 2 on April 5, 2017 (Table 2; Appendix I). The calculated weekly average surface water salinity decreased from 29.6 ppt for April 5/6/7, 2017 to 19.4 ppt for May 15/16/17, 2017.

Table 2: Surface water quality parameters collected at beach seine sites in the Broughton Archipelago in 2017.

Site	Site Name	April 5/6/7, 2017		May 15/16/17, 2017	
		Temp. (°C)	Salinity (ppt)	Temp. (°C)	Salinity (ppt)
1	Swanson Island Fish Farm	8.1	31.3	12.6	25.5
2	Midsummer Island Fish Farm (Potts Bay)	8.1	31.7	12.9	26.4
3	Chop Bay	8.0	31.1	14.0	24.9
4	Lady Island	8.3	31.2	15.1	22.6
5	Doctor Island Fish Farm	8.7	28.1	14.4	21.0
6	Brent Bay	8.6	30.2	13.3	18.3
7	Shelterless Bay	9.4	28.7	13.3	20.3
8	Lance Bay	9.1	28.8	13.4	21.3
9	Sargeant Pass	8.8	29.3	13.8	21.0
10	Humphrey Rock	9.1	29.8	14.5	20.8
11	Pumish Point	8.6	30.5	13.9	20.8
12	Oline Point	8.6	30.2	14.2	20.9
13	London Point	8.4	28.1	14.3	16.6
14	Miller Point	8.2	29.1	14.9	18.9
15	Kwatsi Point	8.1	30.8	15.6	18.4
16	Glacier Falls Fish Farm	8.3	30.6	14.1	20.9
17	Viner Sound	8.4	30.6	14.5	22.0
18	Denham Island	8.4	29.6	14.6	21.0
19	Baker Island	8.3	28.9	18.9	13.2
20	Jumper Island	8.2	30.5	13.1	24.7
21	Arthur Point	8.4	30.8	15.8	21.4
22	Wicklow Bay	8.3	30.6	13.1	23.8
A	Bennett Point Fish Farm (Noo-La)	8.4	31.3	13.8	23.4
B	Sambo Point	8.5	31.3	13.8	24.4
C	Penphrase Passage	8.8	27.9	15.2	10.1
D	Harry Bay	8.7	26.5	15.1	8.8
E	Phillip Point West	9.0	26.5	16.0	7.9
F	Sutlej North	8.6	26.9	14.9	9.7
G	Codrington Point	8.7	28.5	15.4	11.2
H	Wehlis Bay Fish Farm	8.5	29.8	14.8	19.9
I	Alder Bay	8.5	30.0	13.8	22.0
J	Poppelwell Point	8.5	29.4	15.4	19.9
Average		8.5	29.6	14.5	19.4

3.3 Fish Sample Composition

A total of 4609 fish were captured during beach seine sampling conducted in the Broughton Archipelago in 2017. Of those, 995 individual fish (21.6 %) were collected as sample specimens and underwent analysis for sea lice infestation (Table 3). The total collected fish from each species and the percentage that it represents of the total beach seine capture population is presented in Table 3. Chum salmon and pink salmon were the most common species captured during sampling in 2017. Of the 2438 chum salmon captured, 562 individuals (23.1 %) were retained and underwent lab analysis. Of the 2149 pink salmon captured, 411 individuals (19.1 %) were retained and underwent lab analysis. All of the coho salmon, chinook salmon and threespine stickleback captured were retained and analyzed for sea lice infestation (Table 3). No Atlantic salmon were captured during the two sampling events in April and May 2017.

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 4. Totals of fish captured and collected specimens at each site over the entire collection period can be found in Appendix II. No fish were caught at Sites 15, 16, A, D, H and J.

Table 3: The total of collected individuals of each fish species captured in the Broughton Archipelago, BC in April and May 2017, and the percentage of the total capture population that they represent.

Common Name	Capture Totals (% of total capture population)	Collection Totals	Collection %
chum salmon	2438 (52.9 %)	562	23.1
pink salmon	2149 (46.6 %)	411	19.1
coho salmon	19 (0.4 %)	19	100
chinook salmon	2 (0.04 %)	2	100
threespine stickleback	1 (0.02 %)	1	100
All species	4609	995	21.6

Table 4: The number of captured fish (Capture Total) and the number of individual fish collected (Sample Total) from each of the 32 sample sites in the Broughton Archipelago, BC in April and May, 2017.

Site	Site Name	Chum		Coho		Pink		Chinook		Threespine stickleback		Capture Total	Sample Total
		Capture Total	Sample Total	Capture Total	Sample Total								
1	Swanson Island Fish Farm	21	21	0	0	15	15	0	0	0	0	36	36
2	Midsummer Island Fish Farm (Potts Bay)	6	6	0	0	2	2	0	0	0	0	8	8
3	Chop Bay	59	31	0	0	239	29	0	0	0	0	298	60
4	Lady Island	119	59	0	0	143	33	0	0	0	0	262	92
5	Doctor Island Fish Farm	29	29	2	2	3	3	0	0	0	0	34	34
6	Brent Bay	10	10	0	0	16	16	0	0	0	0	26	26
7	Shelterless Bay	4	4	2	2	12	12	2	2	0	0	20	20
8	Lance Bay	20	20	3	3	50	30	0	0	0	0	73	53
9	Sargeaunt Pass	2	2	1	1	0	0	0	0	1	1	4	4
10	Humphrey Rock	271	86	2	2	150	30	0	0	0	0	423	118
11	Pumish Point	4	4	1	1	5	5	0	0	0	0	10	10
12	Oline Point	1	1	0	0	0	0	0	0	0	0	1	1
13	London Point	0	0	0	0	1	1	0	0	0	0	1	1
14	Miller Point	2	2	0	0	0	0	0	0	0	0	2	2
15	Kwatsi Point	0	0	0	0	0	0	0	0	0	0	0	0
16	Glacier Falls Fish Farm	0	0	0	0	0	0	0	0	0	0	0	0
17	Viner Sound	22	22	0	0	3	3	0	0	0	0	25	25
18	Denham Island	1148	48	0	0	1138	38	0	0	0	0	2286	86
19	Baker Island	309	61	0	0	122	47	0	0	0	0	431	108
20	Jumper Island	101	50	0	0	81	31	0	0	0	0	182	81
21	Arthur Point	7	7	0	0	13	13	0	0	0	0	20	20
22	Wicklow Bay	5	5	0	0	7	7	0	0	0	0	12	12
A	Bennett Point Fish Farm (Noo-La)	0	0	0	0	0	0	0	0	0	0	0	0
B	Sambo Point	1	1	0	0	8	8	0	0	0	0	9	9
C	Penphrase Passage	264	60	0	0	113	60	0	0	0	0	377	120
D	Harry Bay	0	0	0	0	0	0	0	0	0	0	0	0
E	Phillip Point West	2	2	0	0	0	0	0	0	0	0	2	2
F	Sutlej North	9	9	0	0	0	0	0	0	0	0	9	9
G	Codrington Point	0	0	8	8	0	0	0	0	0	0	8	8
H	Wehlis Bay Fish Farm	0	0	0	0	0	0	0	0	0	0	0	0
I	Alder Bay	22	22	0	0	28	28	0	0	0	0	50	50
J	Poppelwell Point	0	0	0	0	0	0	0	0	0	0	0	0
	Total	2438	562	19	19	2149	411	2	2	1	1	4609	995

3.4 Fish Sample Size Statistics

Summary statistics for the sample population of juvenile salmonids were completed for weight and fork length. This was completed for chum and pink salmon only as there were insufficient numbers of coho salmon (n=19), chinook salmon (n=2) and threespine stickleback (n=1) captured to warrant this analysis.

3.4.1 Chum Salmon

Analysis of weight and fork length data was completed for the chum salmon sample population collected in the Broughton Archipelago in 2017. The weight of 562 chum smolts collected during the two sample events ranged from 0.13 g to 5.0 g and averaged 1.0 g (SD = 0.9). The fork length of the chum smolts ranged from 29 mm to 87 mm and averaged 43 mm (SD = 10). Chum salmon weight and length data was summarized by month which shows the increase in both parameters in the sample population from April to May, 2017 (Table 5).

3.4.2 Pink Salmon

Analysis of weight and fork length data was completed for the pink salmon sample population collected in the Broughton Archipelago in 2017. The weight of 411 pink smolts collected during the two sample events ranged from 0.16 g to 3.5 g and averaged 0.7 g (SD = 0.6). The fork length of the pink smolts ranged from 27 mm to 72 mm and averaged 40 mm (SD = 8.5). Pink salmon weight and length data was summarized by month which shows the increase in both parameters in the sample population from April to May, 2017 (Table 5).

Table 5: Average weights and lengths summarized by month of chum and pink salmon collected in the Broughton Archipelago in 2017.

Species	Average Weight (g)		Average Length (mm)	
	April	May	April	May
Chum	0.46 (n=265)	1.40 (n=297)	37	48
Pink	0.29 (n=166)	0.97 (n=245)	33	45

3.6 Sea Lice Infestation Rates

The results of the laboratory analysis for the presence of sea lice on the sample population collected in the Broughton Archipelago in 2017 are presented in Table 6. The data recorded for each fish in the sample population during lab analysis is included in Appendix III. A total of 995 samples were collected at 32 sites in the Broughton Archipelago in 2017 and were inspected for sea lice infestation. A total of 211 individuals in the sample population were found to be infested with 400 sea lice (Table 6). A total of 131 chum smolts, 77 pink salmon, 2 coho salmon and one threespine stickleback were found to be infested with sea lice (Table 6). 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 (Table 6). The sea lice prevalence in the sample population collected in the Broughton Archipelago in 2017 was 21.2% and the abundance was 0.4. Sea lice counts of both species observed (*L. salmonis* and *C. clemensi*) were added together for the prevalence and abundance calculations.

The intensity of sea lice infestation, as defined as the number of sea lice on a single infested salmon, ranged from one louse found on 117 individuals to a maximum of six lice found on three individuals. There were 42 salmon infested with two lice, 22 salmon infested by three lice, 20 salmon infested by four lice and seven samples were found to have five lice. The average intensity was calculated by dividing the total number of sea lice by the number of infested fish of each species (Table 6).

Table 6: Results of analysis for sea lice infestation on salmonid smolts collected by beach seine in the Broughton Archipelago, BC in 2017.

Species	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
chum	562	257	131	23.3	0.46	2.0
pink	411	130	77	18.7	0.32	1.7
coho	19	8	2	10.5	0.42	4.0
chinook	2	0	0	0	0	0
Threespine stickleback	1	5	1	100	5.00	5.0
Total	995	400	211	21.2	0.40	1.9

3.6.1 Infestation Rates on Chum Salmon

A total of 131 chum salmon were found to be infested with 257 sea lice (Table 6). The results of the laboratory analysis for sea lice infestation for the chum salmon sample population are presented by site in Table 7. Individual sites with a total capture of more than 10 chum salmon are shown separately in Table 7, while sites with a capture total of less than 10 chum salmon are lumped together and presented at the bottom of the table.

Sea lice counts of both sea lice species observed (*L. salmonis* and *C. clemensi*) were added together for the presentation of sea lice infestation, prevalence and abundance on the chum salmon sample population (Table 6 and 7). For the chum salmon sample population (n=562) there were more infested individuals (82 chum) and more sea lice (186 lice) found on chum salmon collected in May than in April in 2017 (Table 7).

A total of 131 chum salmon were found to be infested with at least one sea louse. The prevalence of sea lice on the chum salmon sample population (n=562) collected in the Broughton Archipelago in 2017 was 23.3 %. Sea lice prevalence on chum salmon was higher in May (27.6 %) than April (18.5 %). The highest sea lice prevalence (83.9 %) was at Site 3 (Chop Bay) in May 2017. Sea lice prevalence calculated by site for the total chum sample population was highly variable ranging from 0 % to a high of 83.9 % (Table 7).

A total of 257 sea lice were identified during laboratory analysis of retained chum salmon. The abundance of sea lice on the chum salmon sample population (n=562) collected in the Broughton Archipelago in 2017 was 0.46. Sea lice abundance was calculated by week and by site and is presented in Table 7. Sea lice abundance on

chum salmon was significantly lower in April (0.27) compared to May (0.63) in 2017. The highest sea lice abundance (2.35) was at Site 3 (Chop Bay) in May 2017. Sea lice abundance calculated by site for the total chum sample population was also highly variable ranging from 0 to a high of 2.35 (Table 7).

Table 7: The number of sea lice found on chum salmon collected in the Broughton Archipelago in 2017 summarized by the sites where beach seining was conducted. Sites with a capture total of 10 chum salmon or more are shown and sites with capture totals of less than 10 chum salmon are lumped. Calculated sea lice prevalence, abundance and average intensity is also included by site.

Site	Sample Week														Total Chum Sample Population		
	April 5/6/7, 2017							May 15/16/17, 2017							Prevalence (%)	Abundance	Average Intensity
	# of Chum Analyzed	# of Infested Chum	Average Weight of Infested Chum (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity	# of Chum Analyzed	# of Infested Chum	Average Weight of Infested Chum (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity			
1- Swanson Island Fish Farm	0	0	-	0	-	-	-	21	7	1.03	13	33.3	0.62	1.9	33.3	0.62	1.9
3- Chop Bay	0	0	0	0	-	-	-	31	26	0.78	73	83.9	2.35	2.8	83.9	2.35	2.8
4- Lady Island	29	6	0.57	10	20.7	0.34	1.7	30	15	0.92	31	50.0	1.03	2.1	35.6	0.69	2.0
5- Doctor Island Fish Farm	1	0	-	0	0	0	0	28	0	-	0	0	0	0	0	0	0
6- Brent Bay	10	0	-	0	0	0	0	0	0	-	0	-	-	-	0	0	0
8- Lance Bay	17	1	0.61	1	5.9	0.06	1.0	3	0	-	0	0	0	0	5.0	0.05	1.0
10- Humphrey Rock	56	4	0.45	4	7.1	0.07	1.0	30	0	-	0	0	0	0	4.7	0.05	1.0
17- Viner Sound	21	2	0.42	2	9.5	0.10	1.0	1	0	-	0	0	0	0	9.1	0.09	1.0
18- Denham Island	17	2	0.50	2	11.8	0.12	1.0	31	7	0.79	10	22.6	0.32	1.4	18.8	0.25	1.3
19- Baker Island	31	16	0.49	23	51.6	0.74	1.4	30	0	-	0	0	0	0	26.2	0.38	1.4
20- Jumper Island	20	8	0.47	19	40.0	0.95	2.4	30	19	0.95	46	63.3	1.53	2.4	54.0	1.30	2.4
C- Penphrase Passage	30	3	0.58	3	10.0	0.10	1.0	30	2	3.9	3	6.7	0.10	1.5	8.3	0.10	1.2
I- Alder Bay	22	4	0.60	4	18.2	0.18	1.0	0	0	-	0	-	-	-	18.2	0.18	1.0
Lumped Sites ¹	11	3	0.56	3	27.3	0.27	1.0	32	6	1.73	10	18.8	0.31	1.7	20.9	0.30	1.4
TOTAL	265	49	0.53	71	18.5	0.27	1.5	297	82	1.44	186	27.6	0.63	2.3	23.3	0.46	2.0

¹Lumped sites include Sites 7- Shelterless Bay, 9- Sargeant Pass, 11- Pumish Point, 12- Oline Point, 14- Miller Point, 21- Arthur Point, 22- Wicklow Bay, B- Sambo Point, E- Phillip Point West and F- Sutlej North.

3.6.2 Infestation Rates on Pink Salmon

A total of 77 pink salmon were found to be infested with 130 sea lice (Table 6). The results of the laboratory analysis for sea lice infestation for the pink salmon sample population are presented by site in Table 8. Individual sites with a total capture of more than 10 pink salmon are shown in Table 8, while sites with a capture total of less than 10 pink salmon are lumped together and presented at the bottom of the table.

Sea lice counts of both sea lice species observed (*L. salmonis* and *C. clemensi*) were added together for the presentation of sea lice infestation, prevalence and abundance on the pink salmon sample population (Table 6 and 8). For the pink salmon sample population (n=411) there were more infested individuals (60 pinks) and more sea lice (103 lice) found on pink salmon collected in May than in April in 2017 (Table 8).

A total of 77 pink salmon were found to be infested with at least one sea louse. The prevalence of sea lice on the pink salmon sample population (n=411) collected in the Broughton Archipelago in 2017 was 18.7 %. Sea lice prevalence on pink salmon was lower in April (10.2 %) than May (24.5 %) 2017. The highest sea lice prevalence (51.6 %) was at Site 20 (Jumper Island) in May 2017 (Table 8). Sea lice prevalence calculated by site for the total pink sample population was highly variable ranging from 0 to a high of 51.6 % (Table 8).

A total of 130 sea lice were identified during laboratory analysis of retained pink salmon. The abundance of sea lice on the pink salmon sample population (n=411) collected in the Broughton Archipelago in 2017 was 0.32. Sea lice abundance was calculated by week and by site and is presented in Table 8. Sea lice abundance on pink salmon was lower in April (0.16) than in May (0.44) in 2017. The highest sea lice abundance at an individual site (0.84) was Site 20 (Jumper Island) in May 2017. Sea lice abundance calculated by site for the total pink sample population was also highly variable ranging from 0 to a high of 0.84 at Site 20 (Table 8).

Table 8: The number of sea lice found on pink salmon collected in the Broughton Archipelago in 2017 summarized by the sites where beach seining was conducted. Sites with a capture total of 10 pink salmon or more are shown and sites with capture totals of less than 10 pink salmon are lumped. Calculated sea lice prevalence, abundance and average intensity is also included by site.

Site	Sample Week														Total Pink Sample Population		
	April 5/6/7, 2017							May 15/16/17, 2017							Prevalence (%)	Abundance	Average Intensity
	# of Pinks Analyzed	# of Infested Pinks	Average Weight of Infested Pinks (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity	# of Pinks Analyzed	# of Infested Pinks	Average Weight of Infested Pinks (g)	# of Lice	Prevalence (%)	Abundance	Average Intensity			
1-Swanson Island	0	0	-	0	-	-	-	15	4	0.70	9	26.7	0.60	2.3	26.7	0.6	2.3
3- Chop Bay	0	0	-	0	-	-	-	29	13	0.60	23	44.8	0.79	1.8	44.8	0.8	1.8
4- Lady Island	3	1	0.28	1	33.3	0.33	1.0	30	13	1.02	23	43.3	0.76	1.8	42.4	0.7	1.7
6- Brent Bay	16	0	-	0	0	0	0	0	0	-	0	-	-	-	0	0	0
7- Shelterless Bay	12	2	0.25	2	16.7	0.17	1.0	0	0	-	0	-	-	-	16.7	0.2	1.0
8- Lance Bay	30	0	-	0	0	0	0	0	0	-	0	-	-	-	0	0	0
10- Humphrey Rock	4	1	0.29	1	25	0.25	1.0	26	0	-	0	0	0	0	3.33	0.03	1.0
18- Denham Island	9	2	0.31	2	22.2	0.22	1.0	29	3	0.60	4	10.3	0.14	1.3	13.2	0.2	1.2
19-Baker Island	17	4	0.30	5	23.5	0.29	1.3	30	1	0.43	3	3.3	0.10	3.0	10.6	0.2	1.6
20- Jumper Island	0	0	-	0	-	-	-	31	16	0.87	26	51.6	0.84	1.6	51.6	0.8	1.6
21- Arthur Point	1	0	-	0	0	0	0	12	6	1.31	9	50.0	0.75	1.5	46.2	0.7	1.5
C- Penphrase Passage	30	3	0.33	9	10.0	0.30	3.0	30	1	2.22	1	3.3	0.03	1.0	6.70	0.2	2.5
I- Alder Bay	28	2	0.40	2	7.1	0.07	1.0	0	0	-	0	-	-	-	7.1	0.07	1.0
Lumped Sites ¹	16	2	0.36	5	12.5	0.31	2.5	13	3	0.92	5	23.1	0.38	1.7	17.2	0.3	2.0
TOTAL	166	17	0.32	27	10.2	0.16	1.6	245	60	0.96	103	24.5	0.44	1.7	18.7	0.32	1.7

¹ Lumped sites include Sites 2- Midsummer Island, 5- Doctor Island, 11- Pumish Point, 13- London Point, 17- Viner Sound, 22- Wicklow Bay and B- Sambo Point.

3.6.3 Infestation Rates on other species

Coho salmon were the third most abundant species collected during beach seine sampling in the Broughton Archipelago in 2017 (n= 19). A total of two coho salmon were found to be infested with eight sea lice resulting in a species prevalence of 10.5 % and an abundance of 0.42 (Table 6). The infested coho salmon were collected in May 2017 from Site 8.

The two chinook salmon samples retained in 2017 were both collected at Site 7 on May 16, 2017. Both of the chinook were analyzed for sea lice infestation and no lice were observed.

A single threespine stickleback was collected at Site 9 on April 5, 2017 during beach seine sampling in the Broughton Archipelago in 2017. The sample was infested with five sea lice resulting in a calculated prevalence of 100 % with an abundance of 5.00.

3.7 Infestation Rates by Sea Lice Species

A total of 124 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 92 individuals and 276 *Caligus clemensi* sea lice were found on 163 of the samples analyzed in the lab (Appendix III). There were 44 samples that were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

3.7.1 Infestation Rates by Sea lice Species on Chum Salmon

An analysis of the species of sea lice identified on the 562 chum salmon collected in the Broughton Archipelago was completed and is presented in Table 9. A total of 81 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 62 juvenile chum salmon and 176 *Caligus clemensi* sea lice were found on 98 of the juvenile chum salmon analyzed in the lab (Appendix III). There were 29 juvenile chum salmon that were infested with both a *L. salmonis* and a *C. clemensi* sea louse. The sea lice species identified on chum salmon are also presented by site by week in Table 10. Individual sites with a total capture of more than 10 chum salmon are shown in Table 10. Sites with a capture total of less than 10 chum salmon are lumped together and presented at the bottom of the table.

For the chum salmon sample population infested with *Caligus clemensi* sea lice (n=98) there were 58 samples infested with one louse, 16 with two lice, 13 with three lice, eight with four lice and three samples infested with five sea lice. For the chum salmon sample population infested with *Lepeophtheirus salmonis* sea lice (n=62) there were 49 samples infested with one louse, 8 with two lice, four with three lice and one sample infested with four lice.

Table 9: The number of sea lice in each life stage by species identified on the chum salmon sample population from the Broughton Archipelago in 2017. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	April 5/6/7, 2017	May 15/16/17, 2017
LEP Co	13	8
LEP C1	4	10
LEP C2	1	13
LEP C3	0	14
LEP C4	0	15
LEP PAM	0	2
LEP PAF	0	1
LEP AM	0	0
LEP AF	0	0
TOTAL LEP	18	63
CAL Co	19	8
CAL C1	31	72
CAL C2	3	30
CAL C3	0	9
CAL C4	0	2
CAL PAM	0	0
CAL PAF	0	0
CAL AM	0	1
CAL AF	0	1
TOTAL CAL	53	123

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 10: The species of sea lice found on chum salmon collected in the Broughton Archipelago in 2017 summarized by the sites where beach seining was conducted. Sites with a total capture of more than 10 chum salmon are shown. Sites with a capture total of less than 10 chum salmon are lumped. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Site	Sample Week								TOTAL		
	April 5/6/7, 2017				May 15/16/17, 2017				# of Chum Analyzed	# of Infested Chum	# of Lice
	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL	# of Chum Analyzed	# of Infested Chum	# of LEP	# of CAL			
1- Swanson Island Fish Farm	0	0	0	0	21	7	2	11	21	7	13
3- Chop Bay	0	0	0	0	31	26	29	44	31	26	73
4- Lady Island	29	6	4	6	30	15	7	24	59	21	41
5- Doctor Island Fish Farm	1	0	0	0	28	0	0	0	29	0	0
6- Brent Bay	10	0	0	0	0	0	0	0	10	0	0
8- Lance Bay	17	1	1	0	3	0	0	0	20	1	1
10- Humphrey Rock	56	4	1	3	30	0	0	0	86	4	4
17- Viner Sound	21	2	2	0	1	0	0	0	22	2	2
18- Denham Island	17	2	1	1	31	7	3	7	48	9	12
19- Baker Island	31	16	2	21	30	0	0	0	61	16	23
20- Jumper Island	20	8	1	18	30	19	12	34	50	27	65
C-Penphrase Passage	30	3	2	1	30	2	2	1	60	5	6
I- Alder Bay	22	4	3	1	0	0	0	0	22	4	4
Lumped Sites ¹	11	3	1	2	32	6	8	2	43	9	13
TOTAL	265	49	18	53	297	82	63	123	562	131	257

¹Lumped sites include Sites 7- Shelterless Bay, 9- Sargeaunt Pass, 11- Pumish Point, 12- Oline Point, 14- Miller Point, 21- Arthur Point, 22- Wicklow Bay, B- Sambo Point, E- Phillip Point West and F- Sutlej North

3.7.2 Infestation Rates by Sea lice Species on Pink Salmon

An analysis of the species of sea lice identified on the 411 pink salmon collected in the Broughton Archipelago was completed and is presented in Table 11. A total of 37 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 27 juvenile pink salmon and 93 *Caligus clemensi* sea lice were found on 62 of the juvenile pink salmon analyzed in the lab (Appendix III). There were 12 juvenile pink salmon that were infested with both a *L. salmonis* and a *C. clemensi* sea louse. The sea lice species identified on pink salmon are also presented by site and week in Table 12. Individual sites with a total capture of more than 10 pink salmon are shown in Table 12. Sites with a capture total of less than 10 pink salmon are lumped together and shown at the bottom of the table.

For the pink salmon sample population infested with *Caligus clemensi* sea lice (n=62) there were 42 samples infested with one louse, 11 with two lice, seven with three lice and two samples infested with four lice. For the pink salmon sample population infested with *Lepeophtheirus salmonis* sea lice (n=27) there were 21 samples infested with one louse, four with two lice and two samples infested with four lice.

Table 11: The number of sea lice in each life stage by species identified on the pink salmon sample population from the Broughton Archipelago in 2017. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	April 5/6/7, 2017	May 15/16/17, 2017
LEP Co	11	2
LEP C1	4	4
LEP C2	0	3
LEP C3	0	10
LEP C4	0	2
LEP PAM	0	0
LEP PAF	0	1
LEP AM	0	0
LEP AF	0	0
TOTAL LEP	15	22
CAL Co	6	2
CAL C1	5	45
CAL C2	0	21
CAL C3	0	6
CAL C4	0	3
CAL PAM	0	0
CAL PAF	0	2
CAL AM	1	2
CAL AF	0	0
TOTAL CAL	12	81

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 12: The species of sea lice found on pink salmon collected in the Broughton Archipelago in 2017 summarized by the sites where beach seining was conducted. Sites with a total capture of more than 10 pink salmon are shown. Sites with a capture total of less than 10 pink salmon are lumped. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Site	Sample Week								TOTAL		
	April 5/6/7, 2017				May 15/16/17, 2017				# of Pinks Analyzed	# of Infested Pinks	# of Lice
	# of Pinks Analyzed	# of Infested Pinks	# of LEP	# of CAL	# of Pinks Analyzed	# of Infested Pinks	# of LEP	# of CAL			
1-Swanson Island	0	0	0	0	15	4	2	7	15	4	9
3- Chop Bay	0	0	0	0	29	13	3	20	29	13	23
4- Lady Island	3	1	1	0	30	13	6	17	33	14	24
6- Brent Bay	16	0	0	0	0	0	0	0	16	0	0
7- Shelterless Bay	12	2	1	1	0	0	0	0	12	2	2
8- Lance Bay	30	0	0	0	0	0	0	0	30	0	0
10- Humphrey Rock	4	1	0	1	26	0	0	0	30	1	1
18- Denham Island	9	2	1	1	29	3	2	2	38	5	6
19-Baker Island	17	4	2	3	30	1	2	1	47	5	8
20- Jumper Island	0	0	0	0	31	16	4	22	31	16	26
21- Arthur Point	1	0	0	0	12	6	1	8	13	6	9
C- Penphrase Passage	30	3	9	0	30	1	1	0	60	4	10
I- Alder Bay	28	2	0	2	0	0	0	0	28	2	2
Lumped Sites ¹	16	2	1	4	13	3	1	4	29	5	10
TOTAL	166	17	15	12	245	60	22	81	411	77	130

¹ Lumped sites include Sites 2- Midsummer Island, 5- Doctor Island, 11- Pumish Point, 13- London Point, 17- Viner Sound, 22- Wicklow Bay and B- Sambo Point.

3.7.3 Infestation Rates by Sea lice Species on other species

Sea lice were identified on two juvenile coho salmon both collected at Site 8 (Lance Bay) on May 16, 2017 (Appendix III). There were no coho salmon collected in April 2017. They were infected with three *Lepeophtheirus salmonis* sea lice of various life stages and five *Caligus clemensi* sea lice (Table 13). Both of the coho salmon were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

The single threespine stickleback captured on April 5, 2017 at Site 9 was infested with four lice including one LEP C3, one LEP C4 and two CAL Co. The locations where the individual infested fish were collected are presented in Table 14.

Table 13: The number of sea lice in each life stage by species identified on coho salmon from the Broughton Archipelago in 2017. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	May 15/16/17, 2017
LEP Co	1
LEP C1	1
LEP C2	0
LEP C3	0
LEP C4	0
LEP PAM	0
LEP PAF	0
LEP AM	1
LEP AF	0
TOTAL LEP	3
CAL Co	0
CAL C1	1
CAL C2	3
CAL C3	0
CAL C4	1
CAL PAM	0
CAL PAF	0
CAL AM	0
CAL AF	0
TOTAL CAL	5

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 14: The distribution of sea lice species identified on coho salmon and threespine stickleback collected in the Broughton Archipelago in 2017 by site. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Species	# of individuals	Date Collected	Site	# of LEP	# of CAL
TSB	1	April 5, 2017	9	3	2
CO	2	May 16, 2017	8	3	5
TOTAL	3			6	7

4.0 Conclusions

This report presents the data from the third year of beach seining and sea lice analysis conducted for wild juvenile salmonid monitoring in the Broughton Archipelago, BC by Marine Harvest Canada. This report is limited to the summary and presentation of the 2017 data as it includes additional sites added on behalf of Cermaq Canada and Grieg Seafood BC Ltd.

A total of 995 individual samples underwent lab analysis for sea lice infestation including 562 chum salmon, 411 pink salmon, 19 coho salmon, two chinook salmon and one threespine stickleback. From the total sample population 211 individuals were infested with 400 sea lice. The calculated prevalence for the total sample population was 21.2 % and the sea lice abundance was 0.40 for the sample population collected in the Broughton Archipelago in 2017.

A total of 2438 chum salmon were captured, representing 52.9 % of all captured samples. Of the 2438 chum captured, 562 were kept for lab analysis for sea lice infestation. A total of 131 chum smolts were found to be infested with 257 lice resulting in a calculated prevalence of 23.3 % and an abundance of 0.46 for the chum salmon sample population.

A total of 2149 pink salmon were captured, representing 46.6 % of all captured samples. Of the 2149 pinks captured, 411 were kept for lab analysis for sea lice infestation. A total of 77 pink salmon were found to be infested with 130 lice resulting in a calculated prevalence of 18.7 % and an abundance of 0.32 for the pink salmon sample population.

A total of 19 coho salmon were captured, retained and analyzed for sea lice infestation. Of the 19 samples two coho salmon were found to be infested by eight lice resulting in a calculated prevalence of 10.5 % and an abundance of 0.42 for the coho salmon sample population.

A total of two chinook and one threespine stickleback were captured, retained and analyzed for sea lice infestation. The chinook samples were found to not be infested with sea lice while the stickleback was found to be infested with five lice.

A total of 124 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 92 samples and 276 *Caligus clemensi* sea lice were found on 163 of the juvenile salmon analyzed in the lab. There were 44 juvenile salmon that were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

For the chum salmon sample population, a total of 81 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 62 juvenile chum salmon and 176 *Caligus clemensi* sea lice were found on 98 of the juvenile chum salmon. There were 29 juvenile chum salmon that were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

For the pink salmon sample population, a total of 37 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 27 juvenile pink salmon and 93 *Caligus clemensi* sea lice were found on 62 of the juvenile pink salmon. There were 12 juvenile pink salmon that were infested with both a *L. salmonis* and a *C. clemensi* sea louse.

For the coho salmon sample population, a total of three *Lepeophtheirus salmonis* and five *Caligus clemensi* sea lice of various life stages were identified on two juvenile coho salmon. The two Chinook analyzed were found to have no sea lice infestation.

The single threespine stickleback collected was found to be infested with three *Lepeophtheirus salmonis* and two *Caligus clemensi* sea lice.

A comparison of the prevalence, abundance and average intensity of sea lice species found on chum and pink salmon was completed for sample data from 2017 collected in the Broughton Archipelago. This data is presented in the following summary table.

Fish Species	<i>Caligus clemensi</i>			<i>Lepeophtheirus salmonis</i>		
	Prevalence	Abundance	Average Intensity	Prevalence	Abundance	Average Intensity
Chum (n=562)	17.4 %	0.31	1.8	11.0 %	0.14	1.3
Pink (n=411)	15.1 %	0.23	1.5	6.6 %	0.09	1.4

5.0 References

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Appendix I – Field Data

Date	Site	Site Name	Salinity (ppt)			Temperature (°C.)		
			0.2m	1.0m	5.0m	0.2m	1.0m	5.0m
04/05/17	Site 1	Swanson Island Fish Farm	31.3	31.7	31.8	8.1	8.2	8.2
04/05/17	Site 2	Midsummer Island Fish Farm (Pott's Bay)	31.7	31.7	31.7	8.1	8.1	8.2
04/05/17	Site 3	Chop Bay	31.1	31.2	31.5	8.0	8.0	8.1
04/05/17	Site 4	Lady Island	31.2	NA	NA	8.3	NA	NA
04/05/17	Site 5	Doctor Island Fish Farm	28.1	30.5	30.7	8.7	8.5	8.5
04/05/17	Site 6	Brent bay	30.2	30.5	30.9	8.6	8.5	8.4
04/05/17	Site 7	Shelterless Bay	28.7	28.8	NA	9.4	9.3	NA
04/05/17	Site 8	Lance Bay	28.8	29.2	29.5	9.1	9.0	9.0
04/05/17	Site 9	Sargeaunt Pass	29.3	29.9	NA	8.8	8.7	NA
04/05/17	Site 10	Humphrey Rock	29.8	30.1	30.4	9.1	9.1	8.8
04/05/17	Site 11	Pumish Point	30.5	30.5	30.6	8.6	8.6	8.6
04/05/17	Site 12	Oline Point	30.2	30.6	30.7	8.6	8.6	8.5
04/06/17	Site 13	London Point	28.1	28.5	30.5	8.4	8.4	8.5
04/06/17	Site 14	Millar Point	29.1	29.1	30.5	8.2	8.2	8.3
04/06/17	Site 15	Kwatsi Point	30.8	31.1	31.0	8.1	8.2	8.3
04/06/17	Site 16	Glacier Falls Fish Farm	30.6	30.7	30.7	8.3	8.3	8.3
04/06/17	Site 17	Viner Sound	30.6	30.6	30.7	8.4	8.4	8.5
04/06/17	Site 18	Denham Island	29.6	29.9	30.4	8.4	8.5	8.5
04/07/17	Site 19	Baker Island	28.9	29.1	29.1	8.3	8.4	8.5
04/07/17	Site 20	Jumper Island	30.5	30.6	NA	8.2	8.3	NA
04/07/17	Site 21	Arthur Point	30.8	30.9	30.8	8.4	8.3	8.4
04/07/17	Site 22	Wicklow Point	30.6	30.6	30.7	8.3	8.4	8.4
04/05/17	Site A	Bennett Point Fish Farm	31.3	31.3	31.3	8.4	8.2	8.2
04/05/17	Site B	Sambo Point	31.3	31.2	31.2	8.5	8.3	8.3
04/06/17	Site C	Penphrase Pass	27.9	28.3	NA	8.8	9.0	NA
04/06/17	Site D	Harry Bay	26.5	27.5	28.8	8.7	8.8	8.8
04/06/17	Site E	Phillip Point West	26.5	26.4	NA	9.0	8.9	NA
04/06/17	Site F	Sutlej North	26.9	28.3	28.8	8.6	8.6	8.6
04/06/17	Site G	Codrington Point	28.5	28.8	29.0	8.7	8.7	8.7
04/06/17	Site H	Wehlis Bay Fish Farm	29.8	30.0	30.1	8.5	8.7	8.5
04/06/17	Site I	Alder Bay	30.0	30.1	30.5	8.5	8.7	8.6
04/06/17	Site J	Poppelwell Point	29.4	29.9	30.4	8.5	8.5	8.6
05/15/17	Site 1	Swanson Island Fish Farm	25.5	NA	NA	12.6	NA	NA

Date	Site	Site Name	Salinity (ppt)			Temperature (°C.)		
			0.2m	1.0m	5.0m	0.2m	1.0m	5.0m
05/15/17	Site 2	Midsummer Island Fish Farm (Pott's Bay)	26.4	NA	NA	12.9	NA	NA
05/15/17	Site 3	Chop Bay	24.9	NA	NA	14.0	NA	NA
05/15/17	Site 4	Lady Island	22.6	NA	NA	15.1	NA	NA
05/15/17	Site 5	Doctor Island Fish Farm	21.0	NA	NA	14.4	NA	NA
05/16/17	Site 6	Brent bay	18.3	19.3	19.3	13.3	13.4	13.4
05/16/17	Site 7	Shelterless Bay	20.3	20.1	NA	13.3	13.3	NA
05/16/17	Site 8	Lance Bay	21.3	NA	NA	13.4	NA	NA
05/16/17	Site 9	Sargeaunt Pass	21.0	22.1	NA	13.8	13.6	NA
05/16/17	Site 10	Humphrey Rock	20.8	NA	NA	14.5	NA	NA
05/16/17	Site 11	Pumish Point	20.8	21.0	NA	13.9	14.0	NA
05/16/17	Site 12	Oline Point	20.9	22.0	NA	14.2	14.4	NA
05/16/17	Site 13	London Point	16.6	NA	NA	14.3	NA	NA
05/16/17	Site 14	Millar Point	18.9	19.5	NA	14.9	14.8	NA
05/16/17	Site 15	Kwatsi Point	18.4	19.4	NA	15.6	15.0	NA
05/16/17	Site 16	Glacier Falls Fish Farm	20.9	23.0	NA	14.1	13.5	NA
05/16/17	Site 17	Viner Sound	22.0	22.0	NA	14.5	14.4	NA
05/16/17	Site 18	Denham Island	21.0	NA	NA	14.6	NA	NA
05/16/17	Site 19	Baker Island	13.2	NA	NA	18.9	NA	NA
05/16/17	Site 20	Jumper Island	24.7	NA	NA	13.1	NA	NA
05/16/17	Site 21	Arthur Point	21.4	NA	NA	15.8	NA	NA
05/16/17	Site 22	Wicklow Point	23.8	24.2	NA	13.1	13.0	NA
05/15/17	Site A	Bennett Point Fish Farm	23.4	23.4	NA	13.8	13.7	NA
05/15/17	Site B	Sambo Point	24.4	NA	NA	13.8	NA	NA
05/17/17	Site C	Penphrase Pass	10.1	10.5	NA	15.2	15.2	NA
05/17/17	Site D	Harry Bay	8.8	10.9	15.9	15.1	15.4	14.4
05/17/17	Site E	Phillip Point West	7.9	NA	NA	16.0	NA	NA
05/17/17	Site F	Sutlej North	9.7	10.2	NA	14.9	14.9	NA
05/17/17	Site G	Codrington Point	11.2	NA	NA	15.4	NA	NA
05/17/17	Site H	Wehlis Bay Fish Farm	19.9	NA	NA	14.8	NA	NA
05/17/17	Site I	Alder Bay	22.0	21.8	NA	13.8	13.9	NA
05/17/17	Site J	Poppelwell Point	19.9	20.5	NA	15.4	15.0	NA

Appendix II – Capture and Collection Sample Totals

Date	Site	Site Name	Weather Comments	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	TSB Captured	TSB Retained	Comments
04/05/17	1	Swanson Island Fish Farm	Overcast, calm.	0	0	0	0	0	0	0	0	0	0	Two sculpin, no fish observed.
04/05/17	2	Midsummer Island Fish Farm (Pott's Bay)	Overcast, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/05/17	3	Chop Bay	Cloudy, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/05/17	4	Lady Island	Cloudy, calm.	3	3	29	29	0	0	0	0	0	0	No fish observed.
04/05/17	5	Doctor Island Fish Farm	Clear, calm.	3	3	1	1	0	0	0	0	0	0	Entire area searched. No fish observed.
04/05/17	6	Brent bay	Light wind, sun, chop.	16	16	10	10	0	0	0	0	0	0	One sculpin, to choppy to search.
04/05/17	7	Shelterless Bay	Chop, windy, sun.	12	12	1	1	0	0	0	0	0	0	50 herring, to choppy to search.
04/05/17	8	Lance Bay	Light outflow, sunny.	50	30	17	17	0	0	0	0	0	0	Two schools of fish observed and set on. 20 pink taken for Fish Health.
04/05/17	9	Sargeaunt Pass	Cloudy, calm.	0	0	1	1	0	0	0	0	1	1	No search, only one place to set. 83 herring, one tubesnout.
04/05/17	10	Humphrey Rock	Sunny, calm.	124	4	121	56	0	0	0	0	0	0	Two starry, four sculpin, one flounder, three tubesnout, one shiner perch, 30 pink and 30 chum taken for Fish Health. Tide dropping.
04/05/17	11	Pumish Point	Light rain, calm.	3	3	0	0	0	0	0	0	0	0	One juvenile rockfish. No search, only one spot to set.
04/05/17	12	Oline Point	Rain, clam.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/06/17	13	London Point	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No search, too much rain to see fish.
04/06/17	14	Millar Point	Rain, calm.	0	0	2	2	0	0	0	0	0	0	No search, only one place to set.
04/06/17	15	Kwatsi Point	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/06/17	16	Glacier Falls Fish Farm	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/06/17	17	Viner Sound	Rain, calm.	3	3	21	21	0	0	0	0	0	0	One sculpin.
04/06/17	18	Denham Island	Rain, calm.	9	9	17	17	0	0	0	0	0	0	One sculpin.
04/07/17	19	Baker Island	Calm, light rain.	17	17	199	31	0	0	0	0	0	0	One tubesnout.
04/07/17	20	Jumper Island	Calm, rain.	0	0	20	20	0	0	0	0	0	0	Log on beach so we set off bluff.
04/07/17	21	Arthur Point	Calm, rain.	1	1	2	2	0	0	0	0	0	0	One surf perch.
04/07/17	22	Wicklow Point	Calm, rain.	7	7	5	5	0	0	0	0	0	0	
04/05/17	A	Bennett Point Fish Farm	Sun, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/05/17	B	Sambo Point	Sun, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/06/17	C	Penphrase Pass	Rain, calm.	80	30	220	30	0	0	0	0	0	0	One tubesnout, one herring, 30 chum for Fish Health, 10 pink for Fish Health.
04/06/17	D	Harry Bay	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/06/17	E	Phillip Point West	Rain, calm.	0	0	0	0	0	0	0	0	0	0	One resident chinook (~320mm), two 2+ year coho (~200mm), all released.
04/06/17	F	Sutlej North	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/06/17	G	Codrington Point	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
04/06/17	H	Wehlis Bay Fish Farm	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.

Date	Site	Site Name	Weather Comments	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	TSB Captured	TSB Retained	Comments
04/06/17	I	Alder Bay	Rain, calm.	28	28	22	22	0	0	0	0	0	0	No fish observed.
04/06/17	J	Poppelwell Point	Rain, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
05/15/17	1	Swanson Island Fish Farm	Light wind, cloudy.	15	15	21	21	0	0	0	0	0	0	20 sculpin, one gunnel.
05/15/17	2	Midsummer Island Fish Farm (Pott's Bay)	Light wind, cloudy.	2	2	6	6	0	0	0	0	0	0	10 gunnel, three crab, 10 flounder.
05/15/17	3	Chop Bay	Windy, cloudy.	239	29	59	31	0	0	0	0	0	0	28 chum and 30 pink taken for Fish Health. Three gunnel, 10 sculpin.
05/15/17	4	Lady Island	Light wind, cloudy.	140	30	90	30	0	0	0	0	0	0	30 striped perch, 30 chum and 30 pink taken for Fish Health.
05/15/17	5	Doctor Island Fish Farm	Calm, cloudy.	0	0	28	28	2	2	0	0	0	0	Three herring.
05/16/17	6	Brent bay	Choppy, cloudy.	0	0	0	0	0	0	0	0	0	0	No fish observed.
05/16/17	7	Shelterless Bay	Light chop, cloudy.	0	0	3	3	2	2	2	2	0	0	No fish observed.
05/16/17	8	Lance Bay	Calm, cloudy.	0	0	3	3	3	3	0	0	0	0	
05/16/17	9	Sargeaunt Pass	Calm, cloudy.	0	0	1	1	1	1	0	0	0	0	Four sandlance.
05/16/17	10	Humphrey Rock	Light chop, cloudy.	26	26	150	30	2	2	0	0	0	0	Two starry flounder, five gunnel, 10 herring and three sandlance.
05/16/17	11	Pumish Point	Light chop, cloudy,	2	2	4	4	1	1	0	0	0	0	
05/16/17	12	Oline Point	Light chop, cloudy.	0	0	1	1	0	0	0	0	0	0	30 green urchins.
05/16/17	13	London Point	Calm, cloudy.	1	1	0	0	0	0	0	0	0	0	One kelp crab, one sculpin.
05/16/17	14	Millar Point	Sun, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
05/16/17	15	Kwatsi Point	Sun, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
05/16/17	16	Glacier Falls Fish Farm	Calm, cloudy.	0	0	0	0	0	0	0	0	0	0	One goby, three surf perch.
05/16/17	17	Viner Sound	Sun, calm.	0	0	1	1	0	0	0	0	0	0	
05/16/17	18	Denham Island	Sun, calm.	1129	29	1131	31	0	0	0	0	0	0	One red rock crab.
05/16/17	19	Baker Island	Sun, calm.	105	30	110	30	0	0	0	0	0	0	One red rock crab, one gunnel.
05/16/17	20	Jumper Island	Sun, calm.	81	31	81	30	0	0	0	0	0	0	Three gunnel, five shiner, 50 striped perch.
05/16/17	21	Arthur Point	Sun, calm.	12	12	5	5	0	0	0	0	0	0	Two juvenile rockfish.
05/16/17	22	Wicklow Point	Sun, calm.	0	0	0	0	0	0	0	0	0	0	No fish observed.
05/15/17	A	Bennett Point Fish Farm	Light chop, rain.	0	0	0	0	0	0	0	0	0	0	No fish observed.
05/15/17	B	Sambo Point	Rain, calm.	8	8	1	1	0	0	0	0	0	0	30 striped perch.
05/17/17	C	Penphrase Pass	Calm, cloudy.	33	30	44	30	0	0	0	0	0	0	Fish seen dimpling on the surface.
05/17/17	D	Harry Bay	Calm, cloudy.	0	0	0	0	0	0	0	0	0	0	No fish observed.
05/17/17	E	Phillip Point West	Calm, cloudy.	0	0	2	2	0	0	0	0	0	0	Mergansers and one kingfisher one site.
05/17/17	F	Sutlej North	Calm, cloudy.	0	0	9	9	0	0	0	0	0	0	One pipefish.
05/17/17	G	Codrington Point	Calm, cloudy.	0	0	0	0	8	8	0	0	0	0	
05/17/17	H	Wehlis Bay Fish Farm	Calm, cloudy.	0	0	0	0	0	0	0	0	0	0	40 striped perch, three hooded nudibranch.
05/17/17	I	Alder Bay	Calm, sun.	0	0	0	0	0	0	0	0	0	0	10 juvenile rockfish.
05/17/17	J	Poppelwell Point	Calm, sun.	0	0	0	0	0	0	0	0	0	0	One hooded nudibranch.

Appendix III – Sea Lice Analysis Data

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
6-Apr-17	Site 04	CM	40	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 04	CM	40	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 04	CM	44	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 04	CM	39	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	PK	38	0.28	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	PK	32	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	PK	32	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	37	0.46	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
5-Apr-17	Site 04	CM	40	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	38	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	39	0.52	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
5-Apr-17	Site 04	CM	40	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	41	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	40	0.59	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
5-Apr-17	Site 04	CM	40	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	40	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	38	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	37	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	39	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	42	0.62	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	39	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	38	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	40	0.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	41	0.64	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
5-Apr-17	Site 04	CM	38	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	37	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	38	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	39	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	38	0.56	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 04	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 05	CM	36	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 05	PK	29	0.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 05	PK	33	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
5-Apr-17	Site 05	PK	30	0.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	39	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	39	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	39	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	38	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	35	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	33	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	37	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	39	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	34	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	33	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	33	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	37	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	32	0.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	36	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	33	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	32	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	33	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	34	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	33	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	31	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	31	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	33	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 06	PK	30	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	CM	36	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	33	0.25	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	30	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	32	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	34	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	31	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
5-Apr-17	Site 07	PK	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	34	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	33	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	35	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
5-Apr-17	Site 07	PK	34	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	32	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 07	PK	32	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	40	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	39	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	39	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	42	0.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	39	0.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	38	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	39	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	42	0.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	37	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	39	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	42	0.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	35	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	37	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	40	0.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	41	0.61	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	CM	41	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	33	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	33	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	33	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	35	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	32	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	33	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	33	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	32	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	32	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
5-Apr-17	Site 08	PK	29	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	32	0.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	32	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	32	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	32	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	30	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	30	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	31	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	31	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 08	PK	33	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 09	CM	37	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 09	TSB	46	1.6	0	0	0	1	2	0	0	0	0	3	2	0	0	0	0	0	0	0	0	2
5-Apr-17	Site 10	CM	36	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	38	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.51	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5-Apr-17	Site 10	CM	37	0.48	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
5-Apr-17	Site 10	CM	37	0.46	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	37	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	37	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	41	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	40	0.53	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	37	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	35	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	43	0.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	36	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	37	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	38	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	34	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
5-Apr-17	Site 10	CM	40	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	39	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	40	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	40	0.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	PK	31	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	PK	33	0.29	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5-Apr-17	Site 10	PK	32	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	PK	33	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	32	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	30	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.29	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
5-Apr-17	Site 10	CM	30	0.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	29	0.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	34	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	32	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	32	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	32	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	31	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	32	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	35	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	30	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	34	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	30	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	31	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	34	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 10	CM	33	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
5-Apr-17	Site 10	CM	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 11	PK	35	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 11	PK	35	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5-Apr-17	Site 11	PK	33	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 14	CM	34	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 14	CM	34	0.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	PK	33	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	PK	36	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	PK	37	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	37	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	35	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	35	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	38	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	33	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	36	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	38	0.42	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	36	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	36	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	35	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	37	0.41	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	37	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	37	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	39	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	34	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	34	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 17	CM	34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	38	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	36	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	35	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	37	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	35	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	37	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	34	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
6-Apr-17	Site 18	CM	33	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	37	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	39	0.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	35	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	37	0.52	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
6-Apr-17	Site 18	CM	37	0.47	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	39	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	39	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	36	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	CM	35	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	34	0.36	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
6-Apr-17	Site 18	PK	30	0.25	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	36	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	33	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	33	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	32	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	34	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site 18	PK	32	0.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	39	0.55	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	35	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	37	0.52	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	34	0.40	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	38	0.56	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	35	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	36	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	39	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	36	0.5	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	2
7-Apr-17	Site 19	CM	32	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	35	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	38	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	35	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	39	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	42	0.73	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	4
7-Apr-17	Site 19	CM	37	0.48	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
7-Apr-17	Site 19	CM	36	0.43	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	36	0.46	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	35	0.32	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	34	0.38	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	35	0.46	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	35	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	40	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	34	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	38	0.47	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
7-Apr-17	Site 19	CM	35	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	CM	38	0.56	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	PK	34	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	31	0.31	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	PK	32	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	28	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	32	0.29	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	PK	35	0.35	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 19	PK	27	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	33	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	31	0.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	33	0.26	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	31	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	30	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	31	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	33	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	34	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	32	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 19	PK	33	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	37	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	39	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	35	0.34	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	39	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	37	0.56	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
7-Apr-17	Site 20	CM	36	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	37	0.49	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	4

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
7-Apr-17	Site 20	CM	37	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	39	0.62	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 20	CM	38	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	39	0.45	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
7-Apr-17	Site 20	CM	36	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	36	0.38	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	4
7-Apr-17	Site 20	CM	37	0.46	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0	5
7-Apr-17	Site 20	CM	36	0.45	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 20	CM	37	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	37	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	36	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	38	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 20	CM	35	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 21	PK	34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 21	CM	36	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 21	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 22	PK	29	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	PK	34	0.38	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7-Apr-17	Site 22	PK	34	0.33	1	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	0	0	0	3
7-Apr-17	Site 22	PK	34	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	PK	33	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	PK	32	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	PK	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	CM	37	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	CM	35	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	CM	35	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	CM	38	0.45	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
7-Apr-17	Site 22	CM	39	0.58	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
6-Apr-17	Site C	PK	32	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	37	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	30	0.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	33	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
6-Apr-17	Site C	PK	35	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	34	0.30	0	4	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.36	4	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	34	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	32	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	34	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	36	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	34	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	34	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	34	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	33	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	30	0.21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	35	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	33	0.32	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	PK	32	0.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	33	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	38	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	37	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	39	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	38	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	40	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	37	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	37	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	39	0.54	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	36	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	39	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	34	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	38	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	42	0.79	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	37	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	36	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	37	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
6-Apr-17	Site C	PK	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	39	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	37	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	38	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	35	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	36	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	36	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	37	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	36	0.42	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
6-Apr-17	Site C	CM	34	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	34	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	39	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	40	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site C	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	39	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	33	0.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	40	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	40	0.47	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
6-Apr-17	Site I	CM	51	0.63	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	43	0.71	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	38	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	43	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	43	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	40	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	37	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	40	0.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	40	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	36	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	39	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	36	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	38	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	42	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	35	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	40	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	36	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	CM	42	0.6	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	33	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	
6-Apr-17	Site I	PK	33	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6-Apr-17	Site I	PK	35	0.46	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
6-Apr-17	Site I	PK	34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	33	0.33	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
6-Apr-17	Site I	PK	35	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	32	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	33	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	31	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	35	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	35	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	35	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	32	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	33	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	33	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	32	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	32	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	29	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	33	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6-Apr-17	Site I	PK	35	0.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
15-May-17	Site 1	CM	42	0.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	42	0.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	47	0.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	43	0.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	39	0.61	0	1	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 1	PK	45	0.94	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 1	PK	37	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	42	0.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	35	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	34	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	43	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	38	0.53	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
15-May-17	Site 1	PK	39	0.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	41	0.71	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
15-May-17	Site 1	PK	41	0.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	32	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	PK	43	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	38	0.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	48	1.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	45	1.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	43	0.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	53	1.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	40	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	49	1.29	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
15-May-17	Site 1	CM	44	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	44	0.86	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 1	CM	41	0.76	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 1	CM	41	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	46	1.18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	50	1.33	0	0	0	0	1	0	0	0	0	1	0	3	1	0	0	0	0	0	0	4
15-May-17	Site 1	CM	48	0.92	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
15-May-17	Site 1	CM	47	1.09	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 1	CM	45	0.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	40	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	43	0.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 1	CM	44	0.96	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	63	2.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	41	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	55	1.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
16-May-17	Site 10	PK	53	1.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	48	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	42	0.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	55	1.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	40	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	35	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	44	0.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	65	2.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	42	0.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	57	1.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	47	1.02	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	46	0.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	35	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	45	0.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	55	1.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	38	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	34	0.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	42	0.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	31	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	44	0.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	35	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	32	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	35	0.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	54	1.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	PK	52	1.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CO	108	11.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CO	82	7.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	67	3.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	63	2.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	60	2.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	65	2.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	63	2.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	36	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	61	2.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	61	3.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	56	2.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	70	3.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	61	2.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	66	3.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
16-May-17	Site 10	CM	60	2.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	67	3.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	58	2.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	64	2.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	41	0.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	60	2.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	64	2.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	57	2.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	58	2.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	65	2.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	62	2.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	63	2.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	67	3.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	60	2.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	67	3.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 10	CM	55	1.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 11	PK	43	0.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 11	PK	48	1.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 11	CM	38	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 11	CM	47	1.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 11	CM	36	0.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 11	CM	50	1.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 11	CO	91	8.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 12	CM	58	1.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 13	PK	33	0.26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 17	CM	39	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	37	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	41	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	46	0.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	50	1.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	47	1.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	36	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	38	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	40	0.59	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 18	PK	38	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	41	0.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	39	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	43	0.74	0	0	0	2	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	46	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
16-May-17	Site 18	PK	47	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	49	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	43	0.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	48	1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	47	1.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	46	0.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	44	0.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	40	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	44	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	46	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	46	0.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	57	1.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	45	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	50	1.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	PK	37	0.45	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 18	PK	40	0.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	38	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	42	0.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	49	1.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	45	1.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	36	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	42	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	39	0.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	46	1.21	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	47	1.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	35	0.37	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 18	CM	36	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	37	0.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	39	0.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	38	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	44	0.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	37	0.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	42	0.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	38	0.64	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	44	0.85	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
16-May-17	Site 18	CM	40	0.68	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 18	CM	40	0.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	40	0.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	35	0.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
16-May-17	Site 18	CM	36	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	41	0.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	45	1.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	39	0.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	36	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	45	1.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 18	CM	43	0.90	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 18	CM	43	0.87	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 19	PK	38	0.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	42	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	46	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	36	0.43	1	0	1	0	0	0	0	0	0	2	0	0	1	0	0	0	0	0	0	1
16-May-17	Site 19	PK	37	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	42	0.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	37	0.39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	46	0.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	46	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	48	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	45	0.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	44	0.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	34	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	39	0.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	36	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	34	0.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	43	0.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	34	0.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	38	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	43	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	33	0.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	38	0.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	37	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	32	0.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	44	0.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	39	0.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	41	0.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	46	0.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	41	0.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	PK	44	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	44	0.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
16-May-17	Site 19	CM	36	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	47	1.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	39	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	37	0.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	40	0.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	43	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	45	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	36	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	42	0.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	35	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	39	0.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	39	0.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	43	0.93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	45	0.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	43	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	47	1.22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	40	0.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	35	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	42	0.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	40	0.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	46	1.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	45	1.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	44	0.92	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	42	0.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	38	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	40	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	35	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	43	0.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 19	CM	42	0.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	PK	42	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	PK	42	0.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	CM	39	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	CM	46	0.97	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	CM	39	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	CM	41	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	CM	40	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 2	CM	37	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	50	1.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
16-May-17	Site 20	PK	34	0.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total	
16-May-17	Site 20	PK	44	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16-May-17	Site 20	PK	43	0.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	44	0.85	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	3
16-May-17	Site 20	PK	40	0.70	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 20	PK	46	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	51	1.32	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 20	PK	47	1.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	43	0.81	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 20	PK	45	0.83	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 20	PK	42	0.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	48	1.11	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 20	PK	43	0.75	0	0	0	1	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	2
16-May-17	Site 20	PK	45	0.99	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	44	0.86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	41	0.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	61	2.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	47	0.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	45	0.95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	43	0.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
16-May-17	Site 20	CM	48	1.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	46	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	49	1.29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	44	0.70	0	0	0	1	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	0	3
16-May-17	Site 20	CM	42	0.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	44	0.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
16-May-17	Site 20	PK	41	0.70	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
16-May-17	Site 20	PK	34	0.41	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 20	PK	42	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	43	0.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	38	0.61	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 20	CM	45	1.01	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 20	CM	36	0.54	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
16-May-17	Site 20	CM	35	0.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	41	1.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	44	0.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	38	0.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	42	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	47	1.23	1	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	0	3
16-May-17	Site 20	CM	36	0.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
16-May-17	Site 20	CM	46	1.15	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	3
16-May-17	Site 20	CM	54	1.71	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
16-May-17	Site 20	CM	50	1.36	1	0	1	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 20	CM	45	1.06	1	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 20	CM	40	0.82	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 20	CM	38	0.62	0	0	0	0	0	0	1	0	0	1	0	3	1	0	0	0	0	0	0	4
16-May-17	Site 20	CM	43	0.94	0	0	1	0	0	0	0	0	0	1	0	2	1	0	0	0	0	0	0	3
16-May-17	Site 20	CM	40	0.71	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
16-May-17	Site 20	CM	38	0.61	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	47	1.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	41	0.82	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	CM	48	1.23	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 20	CM	49	1.23	1	0	1	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	2
16-May-17	Site 20	CM	44	0.87	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
16-May-17	Site 20	CM	40	0.78	0	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	4
16-May-17	Site 20	PK	45	0.83	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
16-May-17	Site 20	PK	38	0.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	46	0.95	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
16-May-17	Site 20	PK	41	0.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 20	PK	46	1.05	0	0	0	1	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1
16-May-17	Site 21	CM	35	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	CM	33	0.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	CM	34	0.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	CM	40	0.66	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	CM	50	1.25	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	PK	46	1.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	PK	44	0.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	PK	52	1.48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
16-May-17	Site 21	PK	49	1.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	PK	51	1.44	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
16-May-17	Site 21	PK	55	1.60	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
16-May-17	Site 21	PK	41	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	PK	55	1.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	PK	39	0.62	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
16-May-17	Site 21	PK	51	1.44	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
16-May-17	Site 21	PK	49	1.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 21	PK	50	1.29	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	44	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
15-May-17	Site 3	PK	40	0.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
15-May-17	Site 3	PK	38	0.59	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	43	0.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	41	0.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	33	0.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	40	0.59	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	PK	40	0.59	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	PK	47	1.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	40	0.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	40	0.71	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	PK	38	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	40	0.58	0	0	0	1	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 3	PK	36	0.44	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
15-May-17	Site 3	PK	36	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	38	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	37	0.53	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	PK	40	0.63	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	3
15-May-17	Site 3	PK	47	1.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	42	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	39	0.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	41	0.66	0	0	0	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	4
15-May-17	Site 3	CM	39	0.60	0	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	2
15-May-17	Site 3	PK	42	0.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	38	0.63	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 3	PK	38	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	39	0.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	37	0.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	PK	37	0.56	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	PK	36	0.45	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 3	CM	38	0.56	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 3	CM	41	0.81	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 3	CM	42	0.83	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	CM	37	0.63	0	0	0	0	0	0	0	0	0	0	0	2	3	0	0	0	0	0	0	5
15-May-17	Site 3	CM	38	0.55	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	CM	40	0.72	0	1	1	0	1	0	0	0	0	3	0	2	1	0	0	0	0	0	0	3
15-May-17	Site 3	CM	45	1.03	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	40	0.76	0	0	1	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 3	CM	43	0.97	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	CM	43	0.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	42	0.85	0	0	1	1	1	0	0	0	0	3	0	1	0	0	0	0	0	0	0	1

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
15-May-17	Site 3	CM	41	0.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	38	0.65	0	2	1	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	CM	48	1.28	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 3	CM	36	0.59	0	1	0	0	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	43	0.83	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	CM	44	0.85	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	3
15-May-17	Site 3	CM	48	1.19	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
15-May-17	Site 3	CM	46	0.97	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 3	CM	37	0.57	0	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	41	0.93	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	4
15-May-17	Site 3	CM	61	0.40	0	2	0	0	0	0	0	0	0	2	0	2	2	0	0	0	0	0	0	4
15-May-17	Site 3	CM	45	1.05	0	0	0	1	0	0	0	0	0	1	0	3	0	0	0	0	0	0	0	3
15-May-17	Site 3	CM	39	0.71	0	1	0	2	1	0	0	0	0	4	0	2	0	0	0	0	0	0	0	2
15-May-17	Site 3	CM	42	0.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	38	0.59	1	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	36	0.52	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	45	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 3	CM	43	0.90	0	0	0	0	1	0	0	0	0	1	0	2	0	1	0	0	0	0	0	3
15-May-17	Site 3	CM	40	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	39	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	48	1.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	49	1.15	0	0	0	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	4
15-May-17	Site 4	PK	44	0.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	53	1.38	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
15-May-17	Site 4	PK	39	0.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	62	2.26	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 4	PK	40	0.60	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	46	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	45	0.89	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 4	PK	52	1.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	46	0.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	45	0.78	0	0	1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	43	0.88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	47	0.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	48	1.04	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 4	PK	40	0.69	0	1	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	41	0.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
15-May-17	Site 4	PK	46	0.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	45	0.82	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
15-May-17	Site 4	PK	49	1.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	45	0.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	40	0.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	51	1.26	0	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 4	PK	49	1.05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	46	0.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	41	0.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	47	1.05	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	0	3
15-May-17	Site 4	PK	38	0.53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	PK	42	0.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
15-May-17	Site 4	CM	41	0.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	41	0.76	0	1	0	1	1	0	0	0	0	3	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 4	CM	50	1.33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	38	0.56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	51	1.43	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	3
15-May-17	Site 4	CM	38	0.58	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site 4	CM	42	0.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
15-May-17	Site 4	CM	43	0.83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	47	1.03	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 4	CM	45	1.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 4	CM	39	0.61	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	40	0.67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	43	0.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	47	1.07	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	38	0.47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	40	0.62	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	56	2.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	45	1.08	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
15-May-17	Site 4	CM	49	1.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	53	1.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	52	1.49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	37	0.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	47	1.09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	42	1.00	0	0	0	1	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	3
15-May-17	Site 4	CM	46	0.97	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	3
15-May-17	Site 4	CM	47	1.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 4	CM	44	0.89	0	0	0	0	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	5
15-May-17	Site 4	CM	41	0.82	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
15-May-17	Site 4	CM	47	1.12	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
15-May-17	Site 4	CM	39	0.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CO	131	29.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CO	102	13.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	63	2.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	71	3.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	66	3.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	62	2.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	70	3.34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	62	2.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	61	2.64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	62	2.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	64	2.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	58	2.07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	62	2.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	68	3.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	65	3.16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	65	2.74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	70	3.69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	69	3.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	62	2.43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	68	3.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	59	2.59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	66	3.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	70	3.79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	87	3.96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	73	3.89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	67	2.57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	62	3.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	70	3.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	69	3.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site 5	CM	66	3.36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 7	CO	98	10.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 7	CO	85	7.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 7	CH	58	2.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 7	CH	59	2.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 7	CM	57	1.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 7	CM	58	2.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 7	CM	36	0.40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 8	CO	86	9.35	0	1	0	0	0	0	0	1	0	2	0	0	2	0	1	0	0	0	0	3

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
16-May-17	Site 8	CO	85	8.55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 8	CO	95	11.61	1	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	2
16-May-17	Site 8	CM	41	0.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 8	CM	31	0.44	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 8	CM	38	0.52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 9	CM	58	1.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16-May-17	Site 9	CO	82	6.31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site B	PK	55	1.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site B	PK	45	0.94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site B	PK	42	0.70	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site B	PK	55	1.61	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	2
15-May-17	Site B	PK	40	0.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site B	PK	44	0.81	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site B	PK	36	0.46	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
15-May-17	Site B	PK	51	1.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15-May-17	Site B	CM	45	0.91	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	55	1.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	68	3.20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	68	3.27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	53	1.42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	49	1.03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	55	1.61	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	62	2.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	59	1.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	64	2.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	67	3.19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	51	1.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	49	1.23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	51	1.28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	52	1.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	50	1.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	57	1.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	65	2.85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	55	1.65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	61	2.22	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	64	2.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	53	1.54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	57	1.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	64	2.63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
17-May-17	Site C	PK	63	2.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	64	2.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	64	2.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	55	1.62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	65	2.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	72	3.51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	PK	51	1.24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	46	1.06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	47	1.17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	48	1.32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	60	2.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	53	1.77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	76	5.01	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	55	1.73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	51	1.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	62	2.80	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
17-May-17	Site C	CM	71	3.99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	45	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	55	1.82	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	49	1.04	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	43	0.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	45	0.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	56	2.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	47	0.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	53	1.66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	52	1.58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	57	2.13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	48	1.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	71	4.12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	43	0.87	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	57	2.14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	72	4.08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	61	2.35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	50	1.37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	64	2.78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	62	2.98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site C	CM	51	1.41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site E	CM	38	0.48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site E	CM	43	0.71	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Date of Seine	Location	Fish Species	Length (mm)	Weight (g)	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	LEP Total	Cal Co	Cal C1	Cal C2	Cal C3	Cal C4	CAL PAM	CAL PAF	CAL AM	CAL AF	CAL Total
17-May-17	Site F	CM	65	2.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site F	CM	55	1.80	0	0	0	0	1	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0
17-May-17	Site F	CM	44	0.72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site F	CM	58	1.90	0	0	1	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	2
17-May-17	Site F	CM	50	1.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site F	CM	74	3.10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site F	CM	62	2.50	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
17-May-17	Site F	CM	70	3.90	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
17-May-17	Site F	CM	70	3.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	85	7.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	93	9.70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	105	14.30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	90	7.90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	100	12.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	103	12.80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	90	10.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17-May-17	Site G	CO	105	11.60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0