

Wild Juvenile Salmonid Monitoring Program Clayoquot Sound, BC 2017

Prepared for

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Summary

Beach seine sampling was conducted on behalf of Cermaq Canada in Clayoquot Sound, BC in 2017. Sampling was completed to monitor sea lice abundance, prevalence and intensity on juvenile wild salmon within Clayoquot Sound in support of the Aquaculture Stewardship Certification process for Cermaq Canada finfish aquaculture sites in the area. This data report represents the third year of wild juvenile salmonid monitoring within Clayoquot Sound conducted solely by Cermaq Canada.

Sampling was conducted during three separate sampling events in April and May 2017, selected to coincide with the peak outmigration period of juvenile salmonids. Sampling was completed at 17 sites within Clayoquot Sound, BC. The sites were selected based on their locations relative to existing aquaculture sites located in the area. Sampling was completed with the support of the Ahousaht First Nation and the Nuuchah-nulth Tribal Council.

Total catch numbers of each salmonid species were recorded. Thirty individuals or the total number of captured samples (if less than 30 were captured) were collected at each of the 17 sites during the sampling events. Water quality measurements including temperature and salinity were recorded at each site during each sampling event.

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

This data summary report documents the observed sea lice infestation rate on retained wild juvenile salmon collected in Clayoquot Sound in 2017. A total of 1,244 juvenile salmonids and one threespine stickleback (*Gasterosteus aculeatus*) underwent

analysis for sea lice infestation including 1,122 chum salmon (*Oncorhynchus keta*), 84 coho salmon (*Oncorhynchus kisutch*) and 38 sockeye salmon (*Oncorhynchus nerka*). No Atlantic salmon (*Salmo salar*) were captured during sampling completed in Clayoquot Sound in 2017.

From the total sample population 234 fish were infested with 381 sea lice. The calculated prevalence for the total sample population was 18.8 % and the sea lice abundance was 0.31 for the sample population collected in Clayoquot Sound in 2017.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 23,608 chum salmon were captured, representing 93.7 % of all captured samples. Of the 23,608 chum captured, 1,122 were kept for lab analysis for sea lice infestation. A total of 222 chum smolts were found to be infested with a total of 354 lice resulting in a calculated prevalence of 19.8 %, abundance of 0.32 and an average intensity of 1.6 for the chum salmon sample population.

A total of 90 coho salmon were captured, representing 0.04% of all captured salmonids. Of the 90 coho captured, 84 were kept for lab analysis for sea lice infestation. A total of eight coho smolts were found to be infested with a total of 21 lice resulting in a calculated prevalence of 9.5 %, abundance of 0.25 and an average intensity of 2.6 for the coho salmon sample population.

A total of 1238 sockeye salmon were captured, representing 4.9% of all captured salmonids. Of the 1238 sockeye captured, 38 were kept for lab analysis for sea lice infestation. A total of four sockeye smolts were found to be infested with a total of six lice resulting in a calculated prevalence of 10.5 %, abundance of 0.16 and an average intensity of 1.5 for the sockeye salmon sample population.

The single threespine stickleback was found to not be infested with sea lice.

A total of 360 *Lepeophtheirus salmonis* lice of various life stages were identified on 228 individual samples and 21 *Caligus clemensi* lice were identified on 18 fish. There were 12 salmonids infested with both sea lice species.

For the chum salmon sample population, a total of 340 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 216 juvenile chum salmon and 14 *Caligus clemensi* sea lice were found on 14 of the juvenile chum salmon analyzed in the lab.

There were eight juvenile chum salmon that were infested with both *L. salmonis* and *C. clemensi*.

For the coho salmon sample population, a total of 14 *Lepeophtheirus salmonis* sea lice of various life stages were identified on eight juvenile coho salmon and seven *Caligus clemensi* sea lice were found on four of the juvenile coho salmon analyzed in the lab. Four juvenile coho salmon were infested with both *L. salmonis* and *C. clemensi*.

For the sockeye salmon sample population, a total of six *Lepeophtheirus salmonis* sea lice of various life stages were identified on four juvenile sockeye salmon. There were no *Caligus clemensi* sea lice observed on the sockeye sample population.

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1.0 Introduction

At the request of Cermaq Canada, beach seine sampling to capture wild juvenile salmon and threespine stickleback to be analyzed for sea lice infestation took place at 17 sites located in Clayoquot Sound, BC (Figure 1). The sample collection occurred during three sample events in 2017 on April 10/11, April 20/21 and May 4/5. These weeks were selected to coincide with the estimated peak outmigration dates of juvenile salmonids. Sampling was completed with the support of the Ahousaht First Nation and the Nuuchah-nulth Tribal Council.

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

Interest in sea lice and their interaction with juvenile salmonids in near shore environments has been the ongoing focus of both media reports and scientific study in coastal British Columbia. This interest followed claims, made in 2001 and 2002, of high levels of sea lice infestation on salmonids in the Broughton Archipelago (Morton *et al.*, 2004). Morton *et al.* (2004) concluded that sea lice abundance on juvenile pink (*Oncorhynchus gorbuscha*) and chum (*O. keta*) salmon were higher at sample sites located near salmon farms. These results led to the speculation by Morton *et al.* (2004)

and others that sea lice infestation may be negatively contributing to the survival of juvenile salmonids in the Broughton Archipelago.

Cermaq Canada requested monitoring of sea lice abundance, prevalence and intensity on wild juvenile salmon within Clayoquot Sound in support of Aquaculture Stewardship Certification for their aquaculture sites within the area. This data summary report documents the observed sea lice infestation rates on retained samples collected in Clayoquot Sound in 2017. This represents the third year of wild juvenile salmonid monitoring in Clayoquot Sound conducted solely by Cermaq Canada. This monitoring program has been adapted from previous sea lice monitoring completed by the Clayoquot Sound Sea Lice Working Group and represents a continuation of the sampling they conducted between 2003 and 2011.

2.0 Methods

The fish inspected for sea lice infestation were collected from 17 sites in Clayoquot Sound, BC. These sites were chosen based on their locations relative to existing Cermaq Canada aquaculture sites in the area (Figure 2). The sites were sampled three times in 2017 on April 10/11, April 20/21 and May 4/5.

2.1 Site Locations

The 17 sites at which beach seining was conducted to collect specimens for sea lice analysis consisted of three sites in Shelter Inlet, two sites in Millar Channel, two sites in Herbert Inlet, six sites in Bedwell Sound and four sites in Fortune Channel. The approximate locations of the 17 beach seine sites are shown in Figure 2. GPS coordinates collected in the field for the sites are presented in Table 1.

Table 1: The site number and location of the 17 beach seine sites where fish were collected for sea lice analysis in Clayoquot Sound in 2017.

Site #	UTM Coordinates (NAD 83)		
	UTM Zone	Easting	Northing
SI1	9	705006	5475521
SI2	9	705188	5476034
SI3	9	711762	5480267
MC1	9	713430	5472219
MC3	9	712344	5468390
HI1	9	2885820	5474681
HI2	10	285829	5468979
BS1	10	285272	5458561
BS2	10	287224	5456470
BS3	10	288916	5462484
BS4	9	657346	5459486
BS5	10	295628	5467503
BS6	10	294024	5457784
FC2	10	299449	5454460
FC3	10	300347	5457616
FC4	10	298327	5454544
FC5	10	297106	5457859

Clayoquot Sound Wild Smolt Monitoring Program

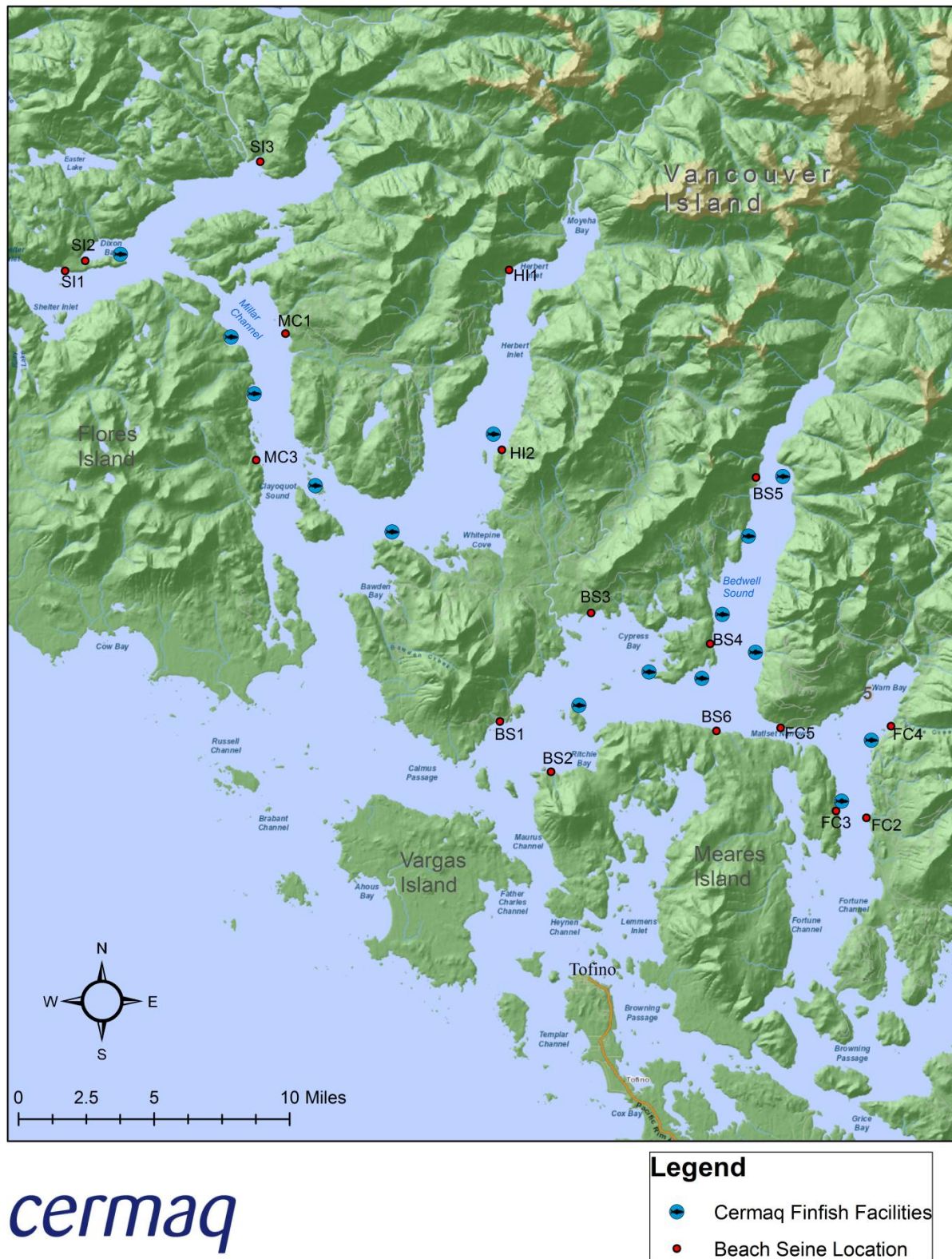


Figure 2: The locations of the 17 beach seine sites in Clayoquot Sound sampled in 2017.

2.2 Field Procedures

In house procedures, adapted from procedures utilized by the Department of Fisheries and Oceans (DFO) for beach seining, fish collection and field data recording in place since 2004 for juvenile salmon sampling were used by Mainstream Biological Consulting staff during sampling in Clayoquot Sound in 2017.

Boats and drivers were supplied by Ahousaht First Nations for beach sampling in Clayoquot Sound in 2017. 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 consisted of one-quarter inch diameter diamond mesh, while the two side panels (wings) were 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 four-person crew was utilized to conduct the beach seine sets and retrieve samples in a consistent manner at each of the 17 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 and third crewmembers ensured the net deployed smoothly off the bow or side of the boat. The fourth 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 and third crewmembers 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 weekly with de-ionized water while traveling to the sample sites.

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 shore crewmembers 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 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 1-17);
- The date;
- The time at the end of the individual fish collection;
- Comments on weather and oceanic conditions;
- Comments regarding wildlife present near the sample site;
- 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 1-17) and the week number (Week 1, 2 or 3). 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 17 sample sites.

2.3 Laboratory Procedures

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

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

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

Individual fish, when thawed, were removed from their bag, using a pair of forceps at the caudal peduncle, and placed in a petri dish. Each bag was labelled chronologically with an individual identification number (1 –1245). Each fish was then scanned for the presence of sea lice under a stereoscopic dissection microscope. The microscope was set at a magnification of 20X for the preliminary survey of each fish sample, but magnification was occasionally increased to 40X during individual sea lice identification.

Microscopic analysis of each individual fish began at the anterior end of the left side of the specimen. The head was examined first, after which a scan was made along the

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

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

Sea lice were identified using characteristics outlined by Kabata (1972) and Johnson and Albright (1991a). Sea lice observed on individual fish were identified as either non-motile chalimus (including copepodid), or motile pre-adults and adults. Sea lice identified as being non-motile were identified as either *Lepeophtheirus spp.* or *Caligus clemensi* and then identified as either copepodid or chalimus I, II, III or IV. Motile sea lice were identified as *Lepeophtheirus spp.* or *Caligus clemensi*, pre-adults or adults, and males or females.

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

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

After microscopic analysis individual fish specimens were measured (fork length) in millimetres and weighed (recorded to the nearest tenth of a gram). Lengths and weights were also recorded on the data sheet with the specimen's corresponding sea lice analysis results. The fish were then returned to their respective individual bags and the fish from each site were repackaged in the large re-sealable bags. All samples were then refrozen.

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

2.4 Data Analysis

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

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

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

3.0 Results

The following sections outline the results of beach seine collection and subsequent sea lice inspection of juvenile salmonids collected from Clayoquot Sound, BC, in 2017. Water quality field data is presented in Appendix I, beach seine fish capture data is included in Appendix II and data on the chum salmon sample population including sea lice lab analysis results are located in Appendix III

3.1 Water Quality Parameters

Surface measurements of temperature and salinity, taken during beach seining at each of the 17 sites during the three sample periods, are presented in Figures 3 and 4 respectively. The field data recorded at each site is included in Appendix I.

Surface water temperature readings taken at the 17 sample sites showed an overall gradual increase trend over the sample period (Figure 3). Recorded surface water temperatures ranged from a low of 7.0 °C recorded at site BS5 on April 11, 2017, to a high of 16.5 °C recorded at site BS3 on May 4, 2017 (Appendix I). Calculated weekly average surface water temperatures increased from 8.5 °C for April 10/11, 2017, to 13.0 °C for April 20/21, 2017 to the high of 14.3 °C for May 4/5, 2017.

Surface water salinity readings taken at the 17 sample sites decreased from April 10/11, 2017 to April 20/21, 2017 with the exception of Site BS3. Recorded surface water salinity ranged from a low of 3.9 ppt recorded at Site SI3 on May 4, 2017, to a high of 25.4 ppt recorded at site BS1 on April 10, 2017 (Figure 4). The calculated weekly average surface water salinity fluctuated from 18.8 ppt for April 10/11, 2017, to 12.9 ppt for April 20/21, 2017, to 15.1 ppt for May 4/5, 2017 (Appendix I).

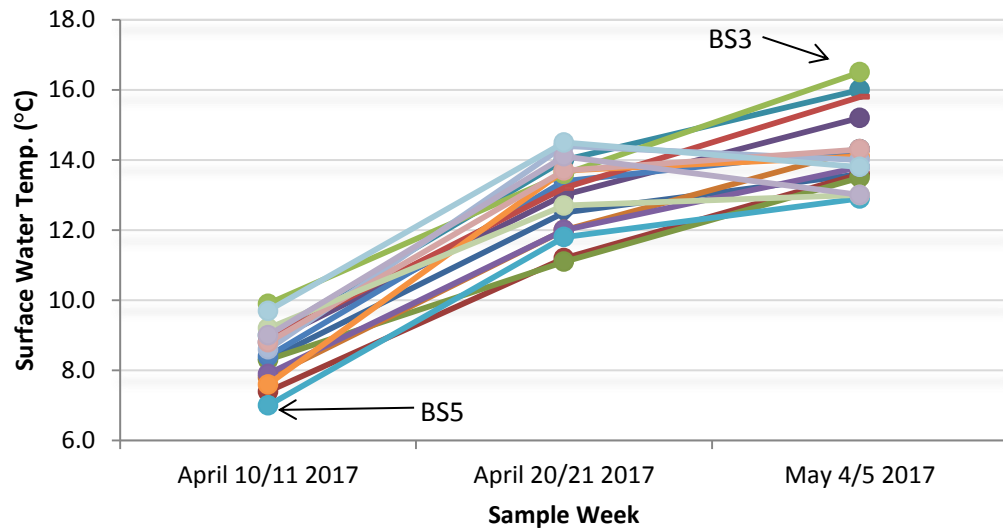


Figure 3: Surface water temperature recorded at 17 beach seine sites in Clayoquot Sound, BC between April 10, 2017 and May 5, 2017.

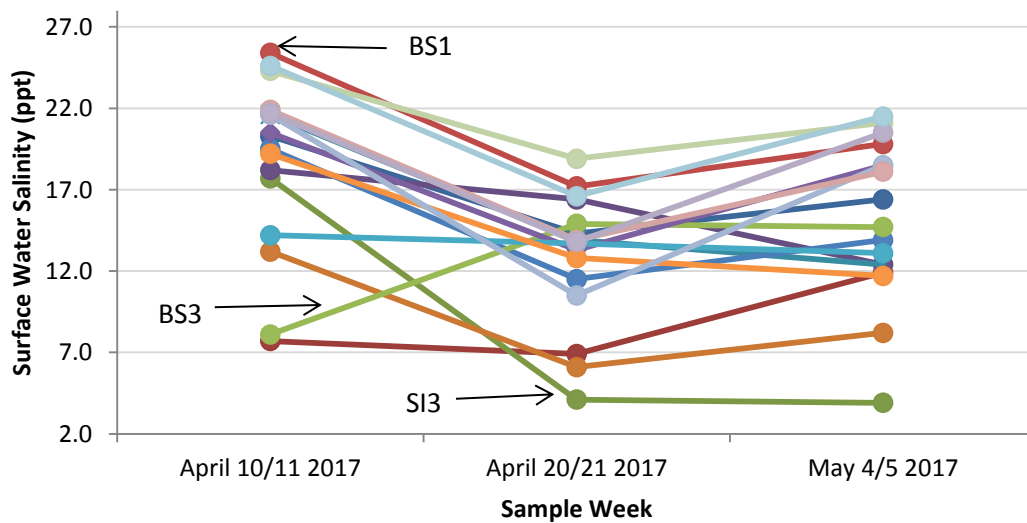


Figure 4: Salinity measurements recorded at 17 beach seine sites in Clayoquot Sound, BC between April 10, 2017 and May 5, 2017.

3.2 Fish Sample Composition

A total of 25,202 fish were captured during beach seine sampling conducted in Clayoquot Sound, BC in 2017 (Table 2). A summary of the total number of fish captured and collected as specimens at each site over the collection period can be found in Table 3. Totals of fish captured and collected specimens at each site over the entire collection period can be found in Appendix II. Only chum salmon, coho salmon, sockeye salmon and threespine stickleback were retained as sample specimens and underwent analysis for sea lice infestation. Of the 23,608 chum salmon captured, 1122 individual chum salmon (90.1 % of the total sample population) were retained and underwent lab analysis. Of the 90 coho salmon captured 84 (6.7 %) individuals were retained and of the 1,238 sockeye salmon captured, 38 (3.1 %) were retained and kept for lab analysis. The single threespine stickleback captured was retained and kept for analysis.

Chum salmon (*O. keta*) smolts were captured in significantly greater numbers than any other species. A total of 23,608 chum salmon were captured, representing 93.7 % of all captured salmonids. Sockeye salmon were the next most commonly caught species with a total capture of 1238 fish (4.9 %) followed by chinook and coho salmon (Table 2).

Table 2: The total of collected individuals of each fish species captured in Clayoquot Sound, 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	23,608 (93.7 %)	1,122	4.8
coho salmon	90 (0.4 %)	84	93.3
chinook salmon (not retained for analysis)	265 (1.1 %)	0	0
sockeye salmon	1238 (4.9 %)	38	3.1
threespine stickleback	1 (0.004 %)	1	100
All species	25,202	1,245	4.9

Table 3: The number of captured fish (Capture Total) and the number of individual fish collected (Sample Total) from each of the 17 sample sites in Clayoquot Sound, BC in April and May 2017.

SITE	Chum		Coho		Chinook		Sockeye		TSB		Capture Total	Sample Total
	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total	Capture Total	Sample Total		
SI1	1759	91	0	0	0	0	0	0	0	0	1759	91
SI2	338	78	0	0	0	0	1	1	0	0	339	79
SI3	34	34	41	35	18	0	1231	31	0	0	1324	100
MC1	5035	90	0	0	1	0	6	6	0	0	5042	96
MC3	6865	90	0	0	3	0	0	0	0	0	6868	90
HI1	91	61	0	0	2	0	0	0	0	0	93	61
HI2	4161	90	0	0	4	0	0	0	0	0	4165	90
BS1	1119	119	6	6	0	0	0	0	0	0	1125	125
BS2	848	63	0	0	52	0	0	0	0	0	900	63
BS3	23	23	0	0	44	0	0	0	0	0	67	23
BS4	89	34	22	22	1	0	0	0	0	0	112	56
BS5	216	63	3	3	7	0	0	0	0	0	226	66
BS6	2262	92	0	0	100	0	0	0	0	0	2362	92
FC2	39	39	17	17	7	0	0	0	0	0	63	56
FC3	299	60	0	0	15	0	0	0	0	0	314	60
FC4	135	30	1	1	0	0	0	0	0	0	136	31
FC5	295	65	0	0	11	0	0	0	1	1	307	66
Total	23608	1122	90	84	265	0	1238	38	1	1	25202	1245

3.3 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, coho and sockeye salmon.

3.3.1 Chum salmon

Analysis of weight and fork length data was completed for the chum salmon sample population collected in Clayoquot Sound in 2017. The weight of 1122 chum smolts collected during the three sampling events ranged from 0.2 g to 3.9 g and averaged 0.7 g (SD = 0.4). The fork length of the chum smolts ranged from 24 mm to 66 mm and averaged 38 mm (SD = 4.8).

3.3.2 Coho salmon

Analysis of weight and fork length data was completed for the coho salmon sample population collected in Clayoquot Sound in 2017. The weight of 84 coho smolts collected during the three sampling events ranged from 0.5 g to 17.6 g and averaged 9.3 g (SD = 4.1). The fork length of the chum smolts ranged from 33 mm to 110 mm and averaged 85 mm (SD = 16.6).

3.3.3 Sockeye salmon

Analysis of weight and fork length data was completed for the sockeye salmon sample population collected in Clayoquot Sound in 2017. The weight of 38 sockeye smolts collected during the three sampling events ranged from 1.8 g to 6.8 g and averaged 3.1 g (SD = 0.9). The fork length of the sockeye smolts ranged from 54 mm to 86 mm and averaged 62 mm (SD = 5.5).

3.4 Sea Lice Infestation

The results of the laboratory analysis for the presence of sea lice on the sample population collected in Clayoquot Sound in 2017 are presented in Table 4. The data recorded for each fish in the sample population during lab analysis is included in Appendix III. A total of 1,245 samples were collected at 17 sites in Clayoquot Sound in 2017 and were inspected for sea lice infestation. A total of 234 individuals in the sample population were found to be infested with 381 sea lice (Table 4). A total of 222 chum smolts, eight coho salmon and four sockeye salmon were found to be infested with sea

lice (Table 4). This data reflects the identification of sea lice of either species (*L. salmonis* and *C. clemensi*) on inspected juvenile salmon.

Prevalence was defined as the number of fish found to be infested with one or more sea louse compared to the total number of fish. Abundance was defined as the total number of sea lice observed compared to the total number of fish. The sea lice prevalence in the sample population collected in Clayoquot Sound in 2017 was 18.8 %, and the abundance was 0.31 (Table 4). Sea lice counts of both species observed (*L. salmonis* and *C. clemensi*) were added together for the prevalence and abundance calculations for the entire sample population.

The intensity of sea lice infestation, as defined as the number of sea lice on a single sample, ranged from one louse found on 148 individuals to a maximum of seven lice found on two individuals. There were 53 samples infested with two lice, 19 infested by three lice, eight found to have four lice, one found to have five lice and three infested with six lice. The average intensity was calculated by dividing the total number of sea lice by the number of infested fish which was 1.6 for chum salmon, 2.6 for coho salmon and 1.5 for sockeye salmon (Table 4).

Table 4: Results of analysis for sea lice infestation on the sample population collected by beach seine in Clayoquot Sound, BC in 2017.

Species	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
chum	1122	354	222	19.8	0.32	1.6
coho	84	21	8	9.5	0.25	2.6
sockeye	38	6	4	10.5	0.16	1.5
threespine stickleback	1	0	0	0	0	0
Total	1245	381	234	18.8	0.31	1.6

3.4.2 Infestation Rates on Chum Salmon

A total of 1122 chum salmon collected at 17 sites within Clayoquot Sound over three sample weeks were inspected for sea lice infestation. The results of the laboratory analysis are presented in Table 5 for each sample period by site for chum salmon. A total of 222 chum salmon were found to be infested with 354 sea lice. This data reflects the identification of sea lice of either species (*L. salmonis* and *C. clemensi*) on inspected chum salmon. The largest number of chum salmon infested with sea lice (93 chum) and the greatest number of sea lice (169 sea lice) were found on samples collected on May 4/5, 2017 (Table 5). Site BS1 had the highest number of infested chum salmon (43) as well as the largest sample population size of 119 and site HI2 had the largest number of lice (78) found on 39 fish (Table 5). No lice were found on chum salmon collected from Sites SI3, BS4 and BS5.

Sea lice counts of both species observed (*L. salmonis* and *C. clemensi*) were added together for the presentation of prevalence, abundance and intensity calculations.

Prevalence was defined as the number of fish found to have one or more sea louse compared to the total number of fish. A total of 222 chum salmon were found to be infested with at least one louse. The prevalence of sea lice on the chum salmon sample (n=1122) collected in Clayoquot Sound in 2017 was 19.8 %. Sea lice prevalence was calculated by site and is presented in Table 6. Sea lice prevalence calculated by site was highly variable ranging from 0 % at Sites SI3, BS4 and BS5 to a high of 43.3 % at site HI2.

A total of 354 sea lice were identified during laboratory analysis of retained chum salmon. Abundance was defined as the total number of sea lice observed compared to the total number of fish. The abundance of sea lice on the chum salmon sample population (n=1122) collected in Clayoquot Sound in 2017 was 0.32. Sea lice abundance was calculated by site and is presented in Table 6. Sea lice abundance calculated by site was also highly variable ranging from 0 at Sites SI3, BS4 and BS5 to a high of 0.90 at HI2.

The intensity of sea lice infestation, as defined as the number of sea lice on a single salmon, ranged from one louse found on 142 individuals to a maximum of seven lice found on one juvenile chum salmon. There were 50 chum salmon infested with two lice,

18 chum infested by three lice, eight chum infested by four lice and three chum infested by six lice. The calculated sea lice infestation rate for the chum salmon sample population was 1.6 (Table 6).

Table 5: The number of sea lice found on chum salmon collected in Clayoquot Sound in 2017 summarized by the 17 sites where beach seining was conducted.

Site	Sample Week									TOTAL		
	April 10/11, 2017			April 20/21, 2017			May 4/5, 2017					
	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice
SI1	31	11	12	30	5	7	30	17	37	91	33	56
SI2	18	4	4	30	1	1	30	10	13	78	15	18
SI3	4	0	0	8	0	0	22	0	0	34	0	0
MC1	30	0	0	30	5	12	30	5	10	90	10	22
MC3	30	2	2	30	14	24	30	14	25	90	30	51
HI1	30	12	19	1	0	0	30	2	3	61	14	22
HI2	30	6	11	30	12	23	30	21	44	90	39	78
BS1	54	21	28	35	10	15	30	12	20	119	43	63
BS2	30	3	3	30	5	5	3	1	3	63	9	11
BS3	6	1	1	1	0	0	16	0	0	23	1	1
BS4	3	0	0	30	0	0	1	0	0	34	0	0
BS5	4	0	0	30	0	0	29	0	0	63	0	0
BS6	32	3	3	30	3	3	30	7	10	92	13	16
FC2	25	1	1	13	1	2	1	1	1	39	3	4
FC3	30	2	2	30	2	2	0	0	0	60	4	4
FC4	0	0	0	30	1	1	0	0	0	30	1	1
FC5	5	0	0	30	4	4	30	3	3	65	7	7
TOTAL	362	66	86	418	63	99	342	93	169	1122	222	354

Table 6: Calculated sea lice prevalence, abundance and intensity by site as determined for chum salmon collected in Clayoquot Sound, BC in 2017.

Site	# of Chum Analyzed	# of Infested Chum	# of Lice	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
SI1	91	33	56	36.3	0.62	1.7
SI2	78	15	18	19.2	0.23	1.2
SI3	34	0	0	-	-	-
MC1	90	10	22	11.1	0.24	2.2
MC3	90	30	51	33.3	0.60	1.7
HI1	61	14	22	23.0	0.36	1.6
HI2	90	39	78	43.3	0.90	2.0
BS1	119	43	63	36.1	0.53	1.5
BS2	63	9	11	7.6	0.17	1.2
BS3	23	1	1	4.3	0.04	1.0
BS4	34	0	0	-	-	-
BS5	63	0	0	-	-	-
BS6	92	13	16	14.1	0.17	1.2
FC2	39	3	4	7.7	0.10	1.3
FC3	60	4	4	6.7	0.10	1.0
FC4	30	1	1	3.3	0.03	1.0
FC5	65	7	7	10.8	0.11	1.0
TOTAL	1122	222	354	19.8	0.32	1.6

3.4.3 Infestation Rates of Coho Salmon

A total of 84 coho salmon collected at 17 sites within Clayoquot Sound over the three sample weeks were inspected for sea lice infestation. The results of the laboratory analysis are presented in Table 7 for each sample period by site for coho salmon. A total of eight coho salmon were found to be infested with 21 sea lice (Table 7). This data reflects the identification of sea lice of either species (*L. salmonis* and *C. clemensi*) on inspected coho salmon and these combined numbers were used to calculate prevalence, abundance and intensity calculations. Coho salmon infested with sea lice were all collected during the May 4/5, 2017 sample week and they were found on coho salmon collected at either Site BS1 or Site BS4 (Table 7).

Prevalence was defined as the number of fish found to have one or more sea louse compared to the total number of fish. A total of eight coho salmon were found to be infested with at least one louse. The prevalence of sea lice on the coho salmon sample (n=84) collected in Clayoquot Sound in 2017 was 9.5 %. Sea lice prevalence was calculated by site and is presented in Table 8. Of the two sites where infested coho salmon were collected, Site BS1 had the highest prevalence of 66.7 %.

A total of 21 sea lice were identified during laboratory analysis of retained coho salmon. Abundance was defined as the total number of sea lice observed compared to the total number of fish. The abundance of sea lice on the coho salmon sample population (n=84) collected in Clayoquot Sound in 2017 was 0.25. Sea lice abundance was calculated by site and is presented in Table 8. Of the two sites infested by sea lice BS1 has the highest calculated abundance at 2.50.

The intensity of sea lice infestation, as defined as the number of sea lice on a single salmon, ranged from one louse found on three individuals to a maximum of seven lice found on one juvenile coho salmon. There were three coho salmon infested with two lice and one coho found to be infested with five lice. The calculated sea lice intensity for the coho salmon sample population was 2.6.

Table 7: The number of sea lice found on coho salmon collected in Clayoquot Sound in 2017 summarized by the 17 sites where beach seining was conducted.

Site	Sample Week									TOTAL		
	April 10/11, 2017			April 20/21, 2017			May 4/5, 2017					
	# of Coho Analyzed	# of Infested Coho	# of Lice	# of Coho Analyzed	# of Infested Coho	# of Lice	# of Coho Analyzed	# of Infested Coho	# of Lice	# of Coho Analyzed	# of Infested Coho	# of Lice
SI1	0	0	0	0	0	0	0	0	0	0	0	0
SI2	0	0	0	0	0	0	0	0	0	0	0	0
SI3	1	0	0	30	0	0	4	0	0	35	0	0
MC1	0	0	0	0	0	0	0	0	0	0	0	0
MC3	0	0	0	0	0	0	0	0	0	0	0	0
HI1	0	0	0	0	0	0	0	0	0	0	0	0
HI2	0	0	0	0	0	0	0	0	0	0	0	0
BS1	0	0	0	0	0	0	6	4	15	6	4	15
BS2	0	0	0	0	0	0	0	0	0	0	0	0
BS3	0	0	0	0	0	0	0	0	0	0	0	0
BS4	0	0	0	12	0	0	10	4	6	22	4	6
BS5	0	0	0	1	0	0	2	0	0	3	0	0
BS6	0	0	0	0	0	0	0	0	0	0	0	0
FC2	0	0	0	16	0	0	1	0	0	17	0	0
FC3	0	0	0	0	0	0	0	0	0	0	0	0
FC4	0	0	0	1	0	0	0	0	0	1	0	0
FC5	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	0	0	60	0	0	23	8	21	84	8	21

Table 8: Calculated sea lice prevalence, abundance and intensity by site as determined for coho salmon collected in Clayoquot Sound, BC in 2017.

Site	# of Coho Analyzed	# of Infested Coho	# of Lice	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
SI1	0	0	0	0	0	0
SI2	0	0	0	0	0	0
SI3	35	0	0	0	0	0
MC1	0	0	0	0	0	0
MC3	0	0	0	0	0	0
HI1	0	0	0	0	0	0
HI2	0	0	0	0	0	0
BS1	6	4	15	66.7	2.50	3.8
BS2	0	0	0	0	0	0
BS3	0	0	0	0	0	0
BS4	22	4	6	18.2	0.27	1.5
BS5	3	0	0	0	0	0
BS6	0	0	0	0	0	0
FC2	17	0	0	0	0	0
FC3	0	0	0	0	0	0
FC4	1	0	0	0	0	0
FC5	0	0	0	0	0	0
TOTAL	84	8	21	9.5	0.25	2.6

3.4.4 Infestation Rates of Sockeye Salmon

A total of 38 sockeye salmon collected at 17 sites within Clayoquot Sound over three sample weeks were inspected for sea lice infestation. The results of the laboratory analysis are presented in Table 9 for each sample period by site for sockeye salmon. A total of four sockeye salmon were found to be infested with six sea lice, all *L. salmonis*. Sockeye salmon infested with sea lice were all collected during sampling completed on April 20/21, 2017 and May 4/5, 2017. They were collected from only two sites, MC1 and SI3 (Table 9).

Prevalence was defined as the number of fish found to have one or more sea louse compared to the total number of fish. A total of four sockeye salmon were found to be infested with at least one louse. The prevalence of sea lice on the sockeye salmon sample (n=38) collected in Clayoquot Sound in 2017 was 10.5 %. Sea lice prevalence was calculated by site and is presented in Table 10.

A total of six sea lice were identified during laboratory analysis of retained sockeye salmon. Abundance was defined as the total number of sea lice observed compared to the total number of fish. The abundance of sea lice on the sockeye salmon sample population (n=38) collected in Clayoquot Sound in 2017 was 0.16. Sea lice abundance was calculated by site and is presented in Table 10.

Of the two sites where infested sockeye salmon were collect, Site MC1 had the highest prevalence of 33.3 % and the highest abundance of 0.67 (Table 10).

The intensity of sea lice infestation, as defined as the number of sea lice on a single salmon, ranged from one louse found on three individuals to three lice found on one individual. Calculated sea lice intensity for the sockeye salmon sample population was 1.5 (Table 10).

Table 9: The number of sea lice found on sockeye salmon collected in Clayoquot Sound in 2017 summarized by the 17 sites where beach seining was conducted.

Site	Sample Week									TOTAL		
	April 10/11, 2017			April 20/21, 2017			May 4/5, 2017					
	# of Sockeye Analyzed	# of Infested Sockeye	# of Lice	# of Sockeye Analyzed	# of Infested Sockeye	# of Lice	# of Sockeye Analyzed	# of Infested Sockeye	# of Lice	# of Sockeye Analyzed	# of Infested Sockeye	# of Lice
SI1	0	0	0	0	0	0	0	0	0	0	0	0
SI2	0	0	0	1	0	0	0	0	0	1	0	0
SI3	1	0	0	0	0	0	30	2	2	31	2	2
MC1	2	0	0	4	2	4	0	0	0	6	2	4
MC3	0	0	0	0	0	0	0	0	0	0	0	0
HI1	0	0	0	0	0	0	0	0	0	0	0	0
HI2	0	0	0	0	0	0	0	0	0	0	0	0
BS1	0	0	0	0	0	0	0	0	0	0	0	0
BS2	0	0	0	0	0	0	0	0	0	0	0	0
BS3	0	0	0	0	0	0	0	0	0	0	0	0
BS4	0	0	0	0	0	0	0	0	0	0	0	0
BS5	0	0	0	0	0	0	0	0	0	0	0	0
BS6	0	0	0	0	0	0	0	0	0	0	0	0
FC2	0	0	0	0	0	0	0	0	0	0	0	0
FC3	0	0	0	0	0	0	0	0	0	0	0	0
FC4	0	0	0	0	0	0	0	0	0	0	0	0
FC5	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	0	0	5	2	4	30	2	2	38	4	6

Table 10: Calculated sea lice prevalence, abundance and intensity by site as determined for sockeye salmon collected in Clayoquot Sound, BC in 2017.

Site	# of Sockeye Analyzed	# of Infested Sockeye	# of Lice	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
SI1	0	0	0	0	0	0
SI2	1	0	0	0	0	0
SI3	31	2	2	6.5	0.06	1.0
MC1	6	2	4	33.3	0.67	2.0
MC3	0	0	0	0	0	0
HI1	0	0	0	0	0	0
HI2	0	0	0	0	0	0
BS1	0	0	0	0	0	0
BS2	0	0	0	0	0	0
BS3	0	0	0	0	0	0
BS4	0	0	0	0	0	0
BS5	0	0	0	0	0	0
BS6	0	0	0	0	0	0
FC2	0	0	0	0	0	0
FC3	0	0	0	0	0	0
FC4	0	0	0	0	0	0
FC5	0	0	0	0	0	0
TOTAL	38	4	6	10.5	0.16	1.5

3.5 Infestation Rates by Sea Lice Species

A total of 360 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 228 individuals and 21 *Caligus clemensi* sea lice were found on 18 of the 1,245 samples analyzed in the lab (Appendix III). There were 12 salmon that were infested with both *L. salmonis* and *C. clemensi*. The single threespine stickleback captured was found to not be infested by sea lice.

3.5.1 Infestation Rates by Sea Lice Species on Chum Salmon

An analysis of the species of sea lice identified on the 222 infested chum salmon collected in Clayoquot Sound in 2017 was completed and is presented in Table 11. A total of 340 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 216 juvenile chum salmon and 14 *Caligus clemensi* sea lice were found on 14 of the juvenile chum salmon analyzed in the lab (Appendix III). There were eight chum salmon infested with lice from both species.

Table 11: The number of sea lice in each life stage by species identified on chum salmon from Clayoquot Sound 2017. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	Number of lice
LEP Co	178
LEP C1	50
LEP C2	48
LEP C3	39
LEP C4	18
LEP PAM	1
LEP PAF	0
LEP AM	6
LEP AF	0
TOTAL LEP	340
CAL Co	5
CAL C1	6
CAL C2	2
CAL C3	0
CAL C4	1
CAL PAM	0
CAL PAF	0
CAL AM	0
CAL AF	0
TOTAL CAL	14

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

3.5.2 Infestation Rates by Sea Lice Species on Coho Salmon

An analysis of the species of sea lice identified on the eight infested coho salmon collected in Clayoquot Sound in 2017 was completed and is presented in Table 12. A total of 14 *Lepeophtheirus salmonis* sea lice of various life stages were identified on eight juvenile coho salmon and seven *Caligus clemensi* sea lice were found on four of the juvenile coho salmon analyzed in the lab (Appendix III). Four of the coho salmon analyzed in the lab were infested with lice from both species.

Table 12: The number of sea lice in each life stage by species identified on coho salmon from Clayoquot Sound 2017. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Life Stage ¹	Number of lice
LEP Co	6
LEP C1	4
LEP C2	3
LEP C3	0
LEP C4	0
LEP PAM	0
LEP PAF	0
LEP AM	1
LEP AF	0
TOTAL LEP	14
CAL Co	5
CAL C1	1
CAL C2	0
CAL C3	1
CAL C4	0
CAL PAM	0
CAL PAF	0
CAL AM	0
CAL AF	0
TOTAL CAL	7

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

3.5.3 Infestation Rates by Sea Lice Species on Sockeye Salmon

An analysis of the species of sea lice identified on the four infested sockeye salmon collected in Clayoquot Sound in 2017 and is presented in Table 13. A total of six *Lepeophtheirus salmonis* sea lice of various life stages were identified on four juvenile sockeye salmon analyzed in the lab (Appendix III). There were no *Caligus clemensi* observed on the sockeye salmon samples in Clayoquot Sound in 2017.

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

Life Stage ¹	Number of lice
LEP Co	3
LEP C1	2
LEP C2	0
LEP C3	0
LEP C4	0
LEP PAM	0
LEP PAF	0
LEP AM	1
LEP AF	0
TOTAL LEP	6

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.

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 Clayoquot Sound, BC by Cermaq Canada. This report is limited to the summary and presentation of the 2017 collected data.

A total of 1,244 juvenile salmonids and one threespine stickleback underwent analysis for sea lice infestation including 1,122 chum salmon, 84 coho salmon and 38 sockeye salmon. No Atlantic salmon (*Salmo salar*) were captured during sampling completed in Clayoquot Sound in 2017.

From the total sample population 234 samples were infested with 381 sea lice. The calculated prevalence for the total sample population was 18.8 % and the sea lice abundance was 0.31 for the sample population collected in Clayoquot Sound in 2017.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 23,608 chum salmon were captured, representing 93.7 % of all captured samples. Of the 23,608 chum captured, 1,122 were kept for lab analysis for sea lice infestation. A total of 222 chum smolts were found to be infested with a total of 354 lice resulting in a calculated prevalence of 19.8 %, abundance of 0.32 and an average intensity of 1.6 for the chum salmon sample population.

A total of 90 coho salmon were captured, representing 0.4 % of all captured salmonids. Of the 90 coho captured, 84 were kept for lab analysis for sea lice infestation. A total of eight coho smolts were found to be infested with a total of 21 lice resulting in a calculated prevalence of 9.5 %, abundance of 0.25 and an average intensity of 2.6 for the coho salmon sample population.

A total of 1,238 sockeye salmon were captured, representing 4.9 % of all captured salmonids. Of the 1,238 sockeye captured, 38 were kept for lab analysis for sea lice infestation. A total of four sockeye smolts were found to be infested with a total of six lice resulting in a calculated prevalence of 10.5 %, abundance of 0.16 and an average intensity of 1.5 for the sockeye salmon sample population.

The single threespine stickleback was found to not be infested with sea lice.

A total of 360 *Lepeophtheirus salmonis* lice of various life stages were identified on 228 individual samples and 21 *Caligus clemensi* lice were identified on 18 fish. There were 12 salmonids infested with both sea lice species.

For the chum salmon sample population, a total of 340 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 216 juvenile chum salmon and 14 *Caligus clemensi* sea lice were found on 14 of the juvenile chum salmon analyzed in the lab. There was eight juvenile chum salmon that were infested with both *L. salmonis* and *C. clemensi*.

For the coho salmon sample population, a total of 14 *Lepeophtheirus salmonis* sea lice of various life stages were identified on eight juvenile coho salmon and seven *Caligus clemensi* sea lice were found on four of the juvenile coho salmon analyzed in the lab. Four juvenile coho salmon were infested with both *L. salmonis* and *C. clemensi*.

For the sockeye salmon sample population, a total of six *Lepeophtheirus salmonis* sea lice of various life stages were identified on four juvenile sockeye salmon. There were no *Caligus clemensi* sea lice observed on the sockeye sample population.

5.0 References

- Healey M.C. 1991. Life history of chinook salmon (*Oncorhynchus tshawytscha*). In: Pacific Salmon Life Histories. C Grott, L Margolis (eds). UBC Press, Vancouver. Pp 313-393.
- Jones S. and A. Nemec. 2004. Pink Salmon Action Plan Research. Part II: Sea Lice on Juvenile Salmon and on Three-spine Sticklebacks in 2003. PSARC Working Paper H2004-01.
- Johnson S.C. and L.J. Albright. 1991a. The developmental stages of *Lepeophtheirus salmonis* (Kroyer, 1837) (Copepoda: Caligidae). Canadian Journal of Zoology 69: 929-950.
- Johnson S.C. and L.J. Albright. 1991b. Development, growth and survival of *Lepeophtheirus salmonis* (Copepoda: Caligidae) under laboratory conditions. Journal of the Marine Biological Association of the UK 71: 425-436.
- Kabata Z. 1972. Developmental stages of *Caligus clemensi* (Copepoda: Caligidae) from fishes of British Columbia. Journal of the Fisheries Research Board of Canada 29: 1571-1593.
- Kabata Z. 1974. The species of *Lepeophtheirus* (Copepoda: Caligidae), from fishes of British Columbia. Journal of the Fisheries Research Board of Canada 30: 729-759.
- Margolis L., J.R. Arthur. 1979. Synopsis of the parasites of fishes of Canada. Bulletin of the Fisheries Research Board of Canada, Number 199. Ottawa. 269 pages.
- McDonald T.E., and L. Margolis. 1995. Synopsis of the parasites of fishes of Canada (1978-1993). Canadian Special Publication of Fisheries and Aquatic Sciences No. 122. National Research Council of Canada, Ottawa. 265 pages.
- Morton A., R. Routledge, C. Peet and A. Ladwig. 2004. Sea Lice (*Lepeophtheirus salmonis*) infection rates on juvenile pink (*Oncorhynchus gorbuscha*) and chum (*Oncorhynchus keta*) salmon in the near shore marine environment of British Columbia, Canada. Canadian Journal of Fisheries and Aquatic Sciences 61: 147-157.
- Parker R.R. and L. Margolis. 1964. A new species of parasitic copepod, *Caligus clemensi* sp. nov. (Clogoida: Caligidae), from pelagic fishes in the coastal waters of British Columbia. Journal of Fisheries Research Board of Canada 21: 873-889.
- Pollard W.R., G.F. Hartman, C. Groot, and P. Edgell. 1997. Field Identification of Coastal Juvenile Salmonids. Published by Harbour Publishing for the Federal Department of Fisheries and Oceans and MacMillan Bloedel Ltd. Madeira Park, BC Canada.
- Salo E.O. 1991. Life history of chum salmon (*Oncorhynchus keta*). In: Pacific Salmon Life Histories. C Grott, L Margolis (eds). UBC Press, Vancouver. Pp 233-309.
- Sandercock F.K. 1991. Life history of coho salmon (*Oncorhynchus kisutch*). In: Pacific Salmon Life Histories. C. Grott, L. Margolis (eds). UBC Press, Vancouver. Pp 397-445.

Appendix I – Field Data

Date	Time	Site Name	Salinity (ppt)	Temperature (°C)
			0.2m	0.2m
04/10/17	9:25	SI-1	20.3	8.3
04/10/17	10:05	SI-2	7.7	7.4
04/10/17	10:38	SI-3	17.7	8.3
04/10/17	11:10	MC-1	18.2	8.8
04/10/17	11:49	MC-3	21.6	9.0
04/10/17	12:33	HI-1	13.2	7.8
04/10/17	13:06	HI-2	19.5	8.4
04/10/17	14:20	BS-1	25.4	8.9
04/10/17	15:25	BS-3	8.1	9.9
04/10/17	8:47	BS-4	20.5	7.9
04/10/17	9:15	BS-5	14.2	7.0
04/11/17	9:54	FC-4	19.2	7.6
04/11/17	10:17	FC-3	21.6	8.6
04/11/17	10:47	FC-2	21.9	8.8
04/11/17	11:17	FC-5	24.3	9.2
04/11/17	11:52	BS-6	21.7	9.0
04/11/17	12:32	BS-2	24.6	9.7
04/11/17	9:05	SI-1	14.3	12.5
04/11/17	9:46	SI-2	6.9	11.2
04/20/17	10:20	SI-3	4.1	11.1
04/20/17	11:00	MC-1	16.4	13.0
04/20/17	11:35	MC-3	13.9	14.0
04/20/17	12:15	HI-1	6.1	12.0
04/20/17	12:40	HI-2	11.5	13.4
04/20/17	13:36	BS-1	17.2	13.2
04/20/17	14:17	BS-3	14.9	13.6
04/20/17	8:50	BS-4	13.3	12.0
04/20/17	9:30	BS-5	13.7	11.8
04/21/17	10:05	FC-5	18.9	12.7
04/21/17	10:35	FC-4	12.8	13.7
04/21/17	11:00	FC-2	13.9	13.7
04/21/17	11:20	FC-3	10.5	14.4
04/21/17	11:45	BS-6	13.8	14.1
04/21/17	12:16	BS-2	16.6	14.5
04/21/17	9:07	SI-1	16.4	13.6
04/21/17	9:41	SI-2	11.9	15.1
05/04/17	10:13	SI-3	3.9	13.5
05/04/17	11:02	MC-1	12.4	15.2
05/04/17	11:30	MC-3	12.4	16.0
05/04/17	12:13	HI-1	8.2	14.3
05/04/17	12:45	HI-2	13.9	14.3
05/04/17	13:37	BS-1	19.8	15.8
05/04/17	14:20	BS-3	14.7	16.5
05/04/17	8:50	BS-4	18.5	13.8
05/04/17	9:16	BS-5	13.1	12.9

Date	Time	Site Name	Salinity (ppt)	Temperature (°C)
			0.2m	0.2m
05/05/17	9:50	FC-5	21.1	13.0
05/05/17	10:13	FC-4	11.7	14.1
05/05/17	10:35	FC-2	18.1	14.3
05/05/17	10:48	FC-3	18.5	14.0
05/05/17	11:11	BS-6	20.5	13.0
05/05/17	11:40	BS-2	21.5	13.8

Appendix II – Capture and Collection Sample Totals

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	TSB Captured	TSB Retained	Salmonid Mortalities	Comments
04/10/17	9:25	SI-1	Sun and clouds.	Low	0	0	350	30	0	0	0	0	0	0	0	0	1	Two pipefish, one sculpin, one rockfish, one decorator crab. 20 chum taken for Fish Health. 30 chum taken for gill study.
04/10/17	10:05	SI-2	Sun and clouds.	Low	0	0	18	18	0	0	0	0	0	0	0	0	0	One starry flounder, five unidentified flounder, two pipefish, one perch.
04/10/17	10:38	SI-3	Sun and clouds.	Low	0	0	4	4	1	1	0	0	1	1	0	0	0	Two mergansers on site. One flounder, one sculpin.
04/10/17	11:10	MC-1	Cloudy.	Low	0	0	140	30	0	0	1	0	2	2	0	0	0	One crab.
04/10/17	11:49	MC-3	Overcast, light rain.	Mid	0	0	505	30	0	0	2	0	0	0	0	0	0	1 pipefish. 30 chum taken for gill study.
04/10/17	12:33	HI-1	Light rain.	Mid	0	0	46	30	0	0	0	0	0	0	0	0	0	16 chum taken for gill study.
04/10/17	13:06	HI-2	Light rain.	High	0	0	355	30	0	0	4	0	0	0	0	0	0	14 chum taken for gill study.
04/10/17	14:20	BS-1	Cloudy.	High	0	0	520	30	0	0	0	0	24	24	0	0	20	Two flounder. 20 chum taken for Fish Health, 50 chum taken for gill study.
04/10/17	15:25	BS-3	Sun and clouds.	Mid	0	0	6	6	0	0	2	0	0	0	0	0	0	Six steelhead (~200-300 mm)
04/11/17	8:47	BS-4	Sunny.	Low	0	0	3	3	0	0	1	0	0	0	0	0	0	Five pipefish, one sculpin, two flounder.
04/11/17	9:15	BS-5	Sunny, calm.	Mid	0	0	4	4	0	0	7	0	0	0	0	0	0	Four seals, three mergansers, two bald eagles.
04/11/17	9:54	FC-4	Sunny, calm.	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	Strong tidal influence, three seal, five mergansers, one steelhead (~200 mm), one pipefish, one flounder.
04/11/17	10:17	FC-3	Sunny.	Mid	0	0	192	30	0	0	15	0	0	0	0	0	0	30 chum taken for gill study. Two decorator crab, one goby, five pipefish, one surf perch, one dungeness crab, one rock crab, 1 sole.
04/11/17	10:47	FC-2	Sunny, calm.	Mid	0	0	25	25	0	0	7	0	0	0	0	0	0	Two hermit crab, one sculpin, one flounder.
04/11/17	11:17	FC-5	Sunny, calm.	Mid	0	0	5	5	0	0	11	0	0	0	1	1	0	Set in different location due to tide and presence of black bear.
04/11/17	11:52	BS-6	Sunny, calm.	Mid	0	0	1330	30	0	0	100	0	2	2	0	0	1	One sealion.
04/11/17	12:32	BS-2	Sunny, calm.	Mid	0	0	630	30	0	0	50	0	0	0	0	0	0	Two red necked grebes, two cormorants, one loon.
04/20/17	9:05	SI-1	Calm, cloudy.	High	0	0	500	30	0	0	0	0	0	0	0	0	0	20 chum taken for Fish Health. 30 chum taken for gill study.

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	TSB Captured	TSB Retained	Salmonid Mortalities	Comments
04/20/17	9:46	SI-2	Calm, cloudy.	High	0	0	30	30	0	0	0	0	1	1	0	0	0	One pipefish, one shrimp.
04/20/17	10:20	SI-3	Calm, cloudy.	High	0	0	8	8	36	30	0	0	0	0	0	0	0	One quillfish.
04/20/17	11:00	MC-1	Calm, cloudy.	Mid	0	0	4760	30	0	0	0	0	4	4	0	0	0	30 chum taken for gill study.
04/20/17	11:35	MC-3	Calm, cloudy.	Mid	0	0	2730	30	0	0	1	0	0	0	0	0	0	14 striped perch, one rockfish, one flounder.
04/20/17	12:15	HI-1	Rain, calm.	Mid	0	0	1	1	0	0	0	0	0	0	0	0	0	
04/20/17	12:40	HI-2	Calm, cloudy.	Mid	0	0	3560	30	0	0	0	0	0	0	0	0	0	One goby, one sea cucumber, 30 chum taken for gill study.
04/20/17	13:36	BS-1	Calm, cloudy.	Mid	0	0	450	30	0	0	0	0	5	5	0	0	0	20 chum taken for Fish Health, 50 chum taken for gill study.
04/20/17	14:17	BS-3	Calm, cloudy.	Mid	0	0	1	1	0	0	2	0	0	0	0	0	0	Five quillfish, 10 tubesnout, five pipefish, one green crab, two juvenile rockfish, 20 flounder, 15 trout.
04/21/17	8:50	BS-4	Calm, sunny.	High	0	0	85	30	12	12	0	0	0	0	0	0	0	Two gunnel.
04/21/17	9:30	BS-5	Calm, sunny.	High	0	0	53	30	1	1	0	0	0	0	0	0	0	
04/21/17	10:05	FC-5	Calm, sunny.	High	0	0	210	30	0	0	0	0	0	0	0	0	0	30 chum taken for gill study.
04/21/17	10:35	FC-4	Calm, sunny.	High	0	0	135	30	1	1	0	0	0	0	0	0	0	One pipefish.
04/21/17	11:00	FC-2	Calm, sunny.	Mid	0	0	13	13	16	16	0	0	0	0	0	0	0	
04/21/17	11:20	FC-3	Calm, sunny.	Mid	0	0	107	30	0	0	0	0	0	0	0	0	0	Two flounder.
04/21/17	11:45	BS-6	Calm, sunny.	Mid	0	0	760	30	0	0	0	0	0	0	0	0	0	Two sculpin, one gunnel.
04/21/17	12:16	BS-2	Calm, sunny.	Mid	0	0	215	30	0	0	2	0	0	0	0	0	0	Two sculpin, chinook caught were ~ 280 mm.
05/04/17	9:07	SI-1	Calm, cloudy.	Mid	0	0	908	30	0	0	0	0	0	0	0	0	0	20 chum taken for Fish Health, 30 chum taken for gill samples. One rockfish.
05/04/17	9:41	SI-2	Calm, cloudy.	Mid	0	0	290	30	0	0	0	0	0	0	0	0	2	Four shiner perch, 15 tubesnout and two cutthroat (~180mm).
05/04/17	10:13	SI-3	Calm, cloudy.	Mid	0	0	23	23	4	4	18	0	1230	30	0	0	0	10 herring, one cutthroat (~300mm).
05/04/17	11:02	MC-1	Calm, cloudy.	Mid	0	0	135	30	0	0	0	0	0	0	0	0	0	One pile perch taken for Fish Health. 20 tubesnout, one shiner perch, 30 chum taken for Fish Health.
05/04/17	11:30	MC-3	Cloudy, cloudy/sun.	Low	0	0	3630	30	0	0	0	0	0	0	0	0	0	Two greenling, one sculpin, one shiner perch.
05/04/17	12:13	HI-1	Calm, cloudy.	Low	0	0	44	30	0	0	2	0	0	0	0	0	0	14 chum taken for gill study.
05/04/17	12:45	HI-2	Calm, cloudy.	Low	0	0	246	30	0	0	0	0	0	0	0	0	1	16 chum taken for gill study.
05/04/17	13:37	BS-1	Calm, cloudy.	Low	0	0	120	30	6	6	0	0	0	0	0	0	0	20 chum taken for Fish Health, 50 chum taken for gill study. Heavy chop washing onshore.

Date	Time	Site Name	Weather Comments	Tide Stage	Pink Captured	Pink Retained	Chum Captured	Chum Retained	Coho Captured	Coho Retained	Chinook Captured	Chinook Retained	Sockeye Captured	Sockeye Retained	TSB Captured	TSB Retained	Salmonid Mortalities	Comments
05/04/17	14:20	BS-3	Calm, cloudy.	Low	0	0	16	16	0	0	40	0	0	0	0	0	0	One herring, 10 green crab.
05/05/17	8:50	BS-4	Calm, rain.	High	0	0	1	1	10	10	0	0	0	0	0	0	0	
05/05/17	9:16	BS-5	Calm, rain.	High	0	0	160	30	2	2	0	0	0	0	0	0	0	One flounder.
05/05/17	9:50	FC-5	Calm, rain.	High	0	0	80	30	0	0	0	0	0	0	0	0	0	Two pile perch for Fish Health, one greenling, two shiner perch.
05/05/17	10:13	FC-4	Calm, light rain.	High	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish observed, strong tidal influence.
05/05/17	10:35	FC-2	Calm, light rain.	High	0	0	1	1	1	1	0	0	0	0	0	0	0	One cutthroat (~120mm).
05/05/17	10:48	FC-3	Calm, light rain.	High	0	0	0	0	0	0	0	0	0	0	0	0	0	One red rock crab.
05/05/17	11:11	BS-6	Calm, light rain.	Mid	0	0	170	30	0	0	0	0	0	0	0	0	0	
05/05/17	11:40	BS-2	Wind, light rain.	Mid	0	0	3	3	0	0	0	0	0	0	0	0	0	Two sculpin.

Appendix III – Sea Lice Analysis Data

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL_ PAF	CAL AM	CAL AF
04/10/17	BS-1	CM	38	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	43	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	38	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	58	2.3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	49	1.5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	58	2.3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/17	BS-1	CM	55	1.9	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	64	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	61	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	43	1.2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	65	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	34	0.5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	58	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	49	1.4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	44	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	58	2.8	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	45	1.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	56	2.3	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	53	1.7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	61	3.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	33	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	59	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	48	1.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	53	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	49	1.5	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	66	3.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/17	BS-1	CM	53	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	55	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-1	CM	52	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-3	CM	48	1.3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-3	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	BS-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	36	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	38	0.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	39	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	37	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	37	0.6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	38	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	36	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-1	CM	35	0.6	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	37	0.7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	36	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	38	0.6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	37	0.6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	31	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/17	MC-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	SK	86	6.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-1	SK	60	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	33	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	30	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	34	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	MC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	37	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/17	SI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	37	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	36	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-1	CM	36	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-2	CM	39	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-3	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-3	SK	58	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/17	SI-3	CO	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	42	0.9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	40	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/11/17	BS-2	CM	34	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	44	1.1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	39	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-4	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-4	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-4	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-5	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-5	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-5	CM	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/11/17	BS-6	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	53	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	38	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	36	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	BS-6	CM	49	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	39	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/11/17	FC-3	CM	36	0.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-3	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-5	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-5	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-5	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-5	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-5	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/17	FC-5	TSB	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	50	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	42	0.8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	43	1.0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/20/17	BS-1	CM	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	53	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	50	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	43	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	49	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	42	0.8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	43	1.0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	46	1.1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	56	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	43	0.9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	48	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/20/17	BS-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	44	1.1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	49	1.3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-1	CM	42	0.8	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	BS-3	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-1	CM	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	43	1.1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	40	0.8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.6	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/20/17	HI-2	CM	40	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	39	0.7	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/20/17	HI-2	CM	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	44	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	34	0.5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/20/17	HI-2	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	36	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	HI-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	37	0.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	36	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	39	0.8	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	36	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/20/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	35	0.5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	SK	61	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	SK	63	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	SK	65	3.5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-1	SK	63	3.0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	38	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	38	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	40	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	43	0.9	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	35	0.5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	40	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	41	0.9	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	40	0.8	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	41	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	43	1.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	41	0.9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	MC-3	CM	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/20/17	MC-3	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/20/17	SI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	39	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	38	0.7	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/20/17	SI-2	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-2	SK	56	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	28	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	25	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	30	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	24	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CM	28	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	78	5.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	101	14.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	96	12.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	101	13.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	97	14.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	85	9.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	108	15.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	91	11.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	78	6.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	105	16.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	98	14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	76	5.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	100	14.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	89	10.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	105	15.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	91	10.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	110	16.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	103	14.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	95	12.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	88	9.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	80	7.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	93	12.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	82	7.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	92	11.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	100	14.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	97	12.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	105	17.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	105	14.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	88	9.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/20/17	SI-3	CO	100	15.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/21/17	BS-2	CM	39	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	45	1.1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	43	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	49	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	39	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-2	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/21/17	BS-4	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	76	5.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	74	5.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	109	15.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	85	9.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	69	4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	83	8.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	86	8.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	68	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	85	8.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	92	10.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	82	7.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-4	CO	88	9.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	50	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/21/17	BS-5	CM	38	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-5	CO	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	34	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	43	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	40	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	49	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	BS-6	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	38	0.5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	53	1.8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CM	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	86	8.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	81	7.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	75	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	72	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/21/17	FC-2	CO	78	6.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	75	5.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	78	6.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	90	10.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	95	10.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	88	9.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	93	10.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	94	10.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	80	7.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	77	6.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	69	4.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-2	CO	84	9.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	36	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	40	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	49	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	36	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/21/17	FC-4	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	50	1.6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-4	CO	100	13.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	39	0.8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	38	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	47	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	43	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/21/17	FC-5	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/21/17	FC-5	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	52	1.5	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	50	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	36	0.6	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0
05/04/17	BS-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	36	0.6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	43	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	51	1.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	47	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	45	1.1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	53	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	59	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
05/04/17	BS-1	CM	41	0.9	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	50	1.6	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
05/04/17	BS-1	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	49	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	48	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	45	1.0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	53	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	43	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CM	46	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CO	90	11.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CO	93	13.3	1	0	2	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
05/04/17	BS-1	CO	87	8.6	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/04/17	BS-1	CO	92	13.9	1	2	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
05/04/17	BS-1	CO	91	12.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-1	CO	89	10.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/04/17	BS-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	BS-3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	36	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	40	0.8	4	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	42	1.0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	39	0.7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	41	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	39	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	38	0.5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	44	0.9	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	38	0.7	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/04/17	HI-2	CM	40	0.6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	43	0.7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	36	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	48	1.4	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	39	0.7	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	39	0.6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	36	0.5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	35	0.4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	36	0.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	36	0.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	HI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	42	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	50	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	39	0.7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	38	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	53	1.9	3	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	41	0.8	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	44	1.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	50	1.5	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	43	0.9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/04/17	MC-3	CM	38	0.6	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	38	0.7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	41	0.8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	47	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	45	1.1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	44	1.1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	45	1.1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	36	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	47	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	36	0.5	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	48	1.5	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	40	0.8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	MC-3	CM	38	0.8	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	41	1.0	0	1	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	46	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	43	1.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	42	1.0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	40	0.8	0	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	43	1.1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	48	1.3	3	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	49	1.4	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	51	1.7	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	42	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	47	1.2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	51	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	48	1.4	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	47	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	46	1.2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/04/17	SI-1	CM	49	1.5	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	50	1.6	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-1	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	45	1.0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	39	0.7	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	40	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	43	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-2	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	28	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	47	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/04/17	SI-3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CM	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CO	62	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CO	33	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CO	34	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	CO	34	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	62	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	59	2.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	55	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	61	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	61	2.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	67	3.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	62	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	59	2.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	59	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	65	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	57	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	63	3.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	60	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	53	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	60	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	62	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	73	5.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	65	3.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	59	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	65	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	61	2.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	62	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	64	3.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	57	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	57	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	61	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	64	3.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	56	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	58	2.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/04/17	SI-3	SK	63	3.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-2	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-2	CM	39	0.7	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-2	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	98	10.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	86	8.9	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	90	9.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	103	13.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	89	9.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	81	7.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/05/17	BS-4	CO	84	6.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	84	7.4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	86	7.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CO	92	10.3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-4	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	33	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CO	71	4.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-5	CO	70	5.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	43	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	44	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	44	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	38	0.6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH IN MM	WEIGHT IN G	LEP Co	LEP C1	LEP C2	LEP C3	LEP C4	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/05/17	BS-6	CM	39	0.9	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	42	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	36	0.6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	BS-6	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-2	CM	48	1.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-2	CO	80	6.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	38	0.6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	56	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	39	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/05/17	FC-5	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0