Wild Juvenile Salmonid Monitoring Program Clayoquot Sound, BC 2019

Prepared for

Cermaq Canada

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Summary

Beach seine sampling was conducted on behalf of Cermaq Canada in Clayoquot Sound, BC in 2019. 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 fifth year of wild juvenile salmonid monitoring within Clayoquot Sound conducted solely by Cermaq Canada.

Sampling was conducted during four separate sampling events in April and May 2019, selected to coincide with the peak outmigration period of juvenile salmonids. Sampling was completed at 17 sites within Clayoquot Sound, BC in 2019. 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 Nuu-chah-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 fish were frozen and analyzed in the lab for the presence of sea lice by Mainstream Biological Consulting. Sea lice observed on the individual fish specimens during laboratory analysis were initially identified as either non-motile chalimus, or motile pre-adults and adults. Non-motile sea lice were identified as either of the two chalimus stages for *Lepeophtheirus spp*. or four chalimus stages for *Caligus clemensi*. Motile lice, either pre-adults or adults, were identified as either *Lepeophtheirus spp*. or *Caligus clemensi* and the sex of the louse was determined. Motile *Lepeophtheirus spp*. sea lice found on salmonid specimens were not identified to species, but have been assumed to be *L. salmonis* due to the lack of documented infestation of Pacific salmon by other *Lepeophtheirus* lice species (Jones and Nemec, 2004).

This data summary report documents the observed sea lice infestation rate on retained wild juvenile salmon collected in Clayoquot Sound in 2019. A total of 799 juvenile salmonids and 31 threespine stickleback (*Gasterosteus aculeatus*) underwent

analysis for sea lice infestation including 792 chum salmon (*Oncorhynchus keta*) and seven coho salmon (*Oncorhynchus kisutch*). No pink salmon, sockeye salmon or Atlantic salmon were captured during sampling completed in Clayoquot Sound in 2019.

From the total sample population 330 fish were infested with 990 sea lice. The calculated prevalence for the total sample population was 39.8 % and the sea lice abundance was 1.19 for the sample population collected in Clayoquot Sound in 2019.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 4,740 chum salmon were captured, representing 97.9 % of all captured samples. Of the 4,740 chum captured, 792 were kept for lab analysis for sea lice infestation. A total of 305 chum smolts were found to be infested with 922 lice resulting in a calculated prevalence of 38.5 %, abundance of 1.16 and an average intensity of 3.0 for the chum salmon sample population.

A total of seven coho salmon were collected in Clayoquot Sound in 2019. One coho salmon was found to be infested with three lice resulting in a species prevalence of 14.3 %, an abundance of 0.43 and an average intensity of 3.0.

A total of 31 threespine stickleback were collected during beach seine sampling within Clayoquot Sound and were inspected for sea lice infestation. A total of 24 threespine stickleback were found to be infested with 65 sea lice resulting in a calculated prevalence of 77.4 %, abundance of 2.10 and an average intensity of 2.7 for the threespine stickleback sample population. All of the infested samples were collected at site BS1 on April 10, 2019.

A total of 616 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 271 individuals and 374 *Caligus clemensi* sea lice were found on 169 of the 830 samples analyzed in the lab. There were 110 samples that were infested with both *L. salmonis* and *C. clemensi*.

For the chum salmon sample population, a total of 593 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 255 juvenile chum salmon and 329 *Caligus clemensi* sea lice were found on 150 of the juvenile chum salmon analyzed in the lab. There were 100 chum salmon infested with lice from both species. For the threespine stickleback sample population, a total of 23 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 16 threespine stickleback and 42 *Caligus clemensi* sea lice were found on 18 of the threespine stickleback analyzed in the lab. There were ten threespine stickleback infested with lice from both species.

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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 four sample events in 2019 on April 10/11, April 30/May 1, May 14/15 and May 30/31. 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 Nuu-chah-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 naupilii stages before developing into an infectious free-swimming copepodid. At this point, the sea lice attach to their host and develop through chalimus stages. The chalimus are "non-motile" and are attached to their host by a frontal filament. The final chalimus stage terminates as the sea lice become "motile" and are no longer attached to their hosts by the frontal filament. The sea lice can now move freely on the fish as they develop through a pre-adult stage before becoming reproductively viable adults.

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 2019. This represents the fifth year of wild juvenile salmonid monitoring in Clayoquot Sound conducted solely by Cermaq Canada. This monitoring program has been adapted from previous sea lice monitoring completed by the Clayoquot Sound Sea Lice Working Group and represents a continuation of the sampling they conducted between 2003 and 2011.



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

2.0 Methods

The fish inspected for sea lice infestation were collected from 17 sites in Clayoquot Sound, BC in 2019. These sites were chosen based on their locations relative to existing Cermaq Canada aquaculture sites in the area (Figure 2). The sites were sampled four times in 2019 on April 10/11, April 30/May 1, May 14/15 and May 30/31.

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.

Sito #	UTM Coordinates (NAD 83)							
Sile #	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	285820	5474681					
HI2	10	285829	5468979					
BS1	10	285272	5458561					
BS2	10	287224	5456470					
BS3	10	288916	5462484					
BS4	10	293586	5461170					
BS5	10	295628	5467503					
BS6	10	294024	5457784					
FC2	10	299449	5454460					
FC3	10	300347	5457616					
FC4	10	298327	5454544					
FC5	10	297106	5457859					

Table 1. The site number and location of the 17 beach semie sites in Clayoquot Sou	Table 1:	The site number	and location	of the 17 be	each seine sites	s in Clayog	uot Sound
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Clayoquot Sound Wild Smolt Monitoring Program

Figure 2: The locations of the 17 beach seine sites in Clayoquot Sound sampled in 2019.

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 2019.

Boats and drivers were supplied by Ahousaht First Nations for beach sampling in Clayoquot Sound in 2019. 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 dependent 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, 3 or 4). 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 –830). 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 nonmotile chalimus (including copepodid), or motile pre-adults and adults. Non-motile sea lice were identified as either of the two chalimus stages for *Lepeophtheirus salmonis* (Hamre et al., 2013) or four chalimus stages for *Caligus clemensi*. Motile sea lice were identified as *Lepeophtheirus spp.* or *Caligus clemensi*, pre-adults or adults, and males or females.

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

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

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

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

2.4 Data Analysis

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

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

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

3.0 Results

The following sections outline the results of beach seine collection and subsequent sea lice inspection of juvenile salmonids collected from Clayoquot Sound, BC, in 2019. Water quality field data is presented in Appendix I, beach seine fish capture data is included in Appendix II and data on the juvenile salmon sample population including sea lice lab analysis results are located in Appendix III.

3.1 Water Quality Parameters

Surface measurements of water temperature and salinity, taken during beach seining at each of the 17 sites during the four 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 increasing trend over the sample period (Figure 3). Recorded surface water temperatures ranged from a low of 8.7 °C recorded at site SI3 on April 10, 2019 and BS5 on April 11, 2019, to a high of 18.7 °C recorded at site HI1 on May 30, 2019 (Appendix I). Calculated weekly average surface water temperatures increased from 9.5 °C for April 10/11, 2019, to 12.4 °C for April 30/May 1, 2019, to 12.5 °C for May 14/15, 2019, to the high of 16.4 °C for May 30/31, 2019.

Recorded surface water salinity ranged from a low of 11.4 ppt recorded at Site SI3 on April 10, 2019, to a high of 31.0 ppt recorded at site SI1 on May 14, 2019 (Figure 4). The calculated weekly average surface water salinity fluctuated from 22.0 ppt for April 10/11, 2019, to 26.7 ppt for April 30/May 1, 2019, to 25.4 for May 14/15, 2019, to 24.1 ppt for May 30/31, 2019.







Figure 4: Salinity measurements recorded at 17 beach seine sites in Clayoquot Sound, BC between April 10, 2019 and May 31, 2019.

3.2 Fish Sample Composition

A total of 4,840 fish were captured during beach seine sampling conducted in Clayoquot Sound, BC in 2019 (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 and threespine stickleback were retained as sample specimens and underwent analysis for sea lice infestation. Of the 4,740 chum salmon captured, 792 individual chum salmon (16.7 %) were retained and underwent lab analysis. All of the seven coho salmon captured were retained and kept for lab analysis. Of the 82 threespine stickleback captured, 31 individuals (37.8 %) were retained and underwent lab analysis. No pink salmon, sockeye salmon or Atlantic salmon were captured during beach seine sampling conducted in Clayoquot Sound, BC in 2019.

Chum salmon (*O. keta*) smolts were captured in significantly greater numbers than any other species. A total of 4740 chum salmon were captured, representing 97.9 % of all captured salmonids. Threespine stickleback were the next most commonly caught species with a total capture of 82 (1.7 %), followed by chinook salmon and coho salmon (Table 2).

Common Name	Capture Totals (% of total capture population)	Collection Totals	Collection %
chum salmon	4740 (97.9 %)	792	16.7
coho salmon	7 (0.1 %)	7	100
chinook salmon (not retained for analysis)	11 (0.2 %)	0	0
threespine stickleback	82 (1.7 %)	31	37.8
All species	4840	830	17.1

Table 2:	The total of collected individuals of each fish species captured in Clayoquot
	Sound, BC in April and May 2019, and the percentage of the total capture
	population that they represent.

	Chum		Coho		Chir	Chinook		Sockeye		TSB		Sampla
SITE	Capture Total	Sample Total	Total	Total								
SI1	112	37	0	0	0	0	0	0	0	0	112	37
SI2	318	96	0	0	0	0	0	0	0	0	318	96
SI3	1	1	3	3	7	0	0	0	0	0	11	4
MC1	46	46	2	2	0	0	0	0	0	0	48	48
MC3	0	0	0	0	0	0	0	0	0	0	0	0
HI1	772	68	0	0	0	0	0	0	0	0	772	68
HI2	1645	60	0	0	0	0	0	0	0	0	1645	60
BS1	134	68	0	0	0	0	0	0	80	29	214	97
BS2	145	61	0	0	0	0	0	0	0	0	145	61
BS3	347	32	0	0	2	0	0	0	0	0	349	32
BS4	64	55	0	0	0	0	0	0	0	0	64	55
BS5	530	92	1	1	2	0	0	0	0	0	533	93
BS6	259	44	0	0	0	0	0	0	0	0	259	44
FC2	23	23	1	1	0	0	0	0	1	1	25	25
FC3	19	19	0	0	0	0	0	0	0	0	19	19
FC4	210	30	0	0	0	0	0	0	0	0	210	30
FC5	115	60	0	0	0	0	0	0	1	1	116	61
Total	4740	792	7	7	11	0	0	0	82	31	4840	830

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 2019.

3.3 Fish Sample Size Statistics

Summary statistics for the sample population of juvenile salmonids were completed for weight and fork length. Original fish length and weight data is included in Appendix III. Summary statistics were completed for chum salmon and threespine stickleback only as there were insufficient numbers of coho salmon to warrant this analysis.

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 2019. The weight of 792 chum smolts collected during the four sampling events ranged from 0.3 g to 5.0 g and averaged 1.1 g (SD = 0.7). The fork length of the chum smolts ranged from 29 mm to 78 mm and averaged 44 mm (SD = 8.4).

3.3.2 Threespine Stickleback

Analysis of weight and total length data was completed for the threespine stickleback sample population collected in Clayoquot Sound in 2019. The weight of 31 stickleback collected during the four sampling events ranged from 0.7 g to 2.0 g and averaged 1.4 g (SD = 0.3). The total length of the threespine stickleback ranged from 40 mm to 55 mm and averaged 50 mm (SD = 3.8).

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 2019 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 830 samples were collected at 17 sites in Clayoquot Sound in 2019 and were inspected for sea lice infestation. A total of 330 individuals in the sample population were found to be infested with 990 sea lice (Table 4). A total of 305 chum smolts, one coho salmon and 24 threespine stickleback 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 2019 was 39.8 %, and the abundance was 1.19 (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 117 individuals to a maximum of 35 lice found on one individual. The average intensity was calculated by dividing the total number of sea lice by the number of infested fish which was 3.0 for chum and coho salmon, and 2.7 for threespine stickleback (Table 4).

Species	Sample size (n)	Total number of lice observed	Total number of fish infested	Prevalence (%)	Abundance	Average Intensity
chum	792	922	305	38.5	1.16	3.0
coho	7	3	1	14.3	0.43	3.0
threespine stickleback	31	65	24	77.4	2.10	2.7
Total	830	990	330	39.8	1.19	3.0

Table 4:	Results of analysis for sea lice infestation on the sample population collected
	by beach seine in Clayoquot Sound, BC in 2019.

3.4.1 Infestation Rates of Chum Salmon

A total of 792 chum salmon collected at 17 sites within Clayoquot Sound over four 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 305 chum salmon were found to be infested with 922 sea lice. This data reflects the identification of sea lice of either species (*L. salmonis and C. clemensi*) on inspected chum salmon and these combined numbers were used to calculate prevalence, abundance and intensity.

The largest number of chum salmon infested with sea lice (126 chum) and the greatest number of sea lice (568 sea lice) were found on samples collected on May 14/15, 2019 (Table 5). Site BS1 had the highest number of infested chum salmon (55) and the largest number of lice (277).

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 305 chum salmon were found to be infested with at least one louse. The prevalence of sea lice on the chum salmon sample (n=792) collected in Clayoquot Sound in 2019 was 38.5 %. Sea lice prevalence was calculated by site and is presented in Table 6. Sea lice prevalence calculated by site for the chum salmon sample population was highly variable ranging from a low of 0 % at site SI3 to a high of 80.9 % at site BS1.

A total of 922 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=792) collected in Clayoquot Sound in 2019 was 1.16. Sea lice abundance was calculated by site and is presented in Table 6. Sea lice abundance calculated by site was also highly variable ranging from a low of 0 at site SI3 to a high of 4.07 at BS1.

The calculated average intensity of sea lice infestation for the chum salmon sample population was 3.0 (Table 4). The intensity of sea lice infestation, as defined as the number of sea lice on a single salmon, ranged from one louse found on 113 individuals to a maximum of 35 lice found on one juvenile chum salmon. The percentage of the chum salmon sample population with the number of sea lice per sample was graphed and is presented in Figure 5. As shown in this graph, 61.5 % of the chum sample

population were not infested with sea lice, 32.7 % were infested with less than five sea lice and 5.8 % of the chum salmon sample population was infested with five or more sea lice.

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



Figure 5: The number of sea lice per chum salmon graphed as a percentage of the total chum sample population collected in Clayoquot Sound in 2019.

	Sample Week												ΤΟΤΑΙ		
	April 10/11, 2019			Apri	I 30/May 1, 2	2019	May 14/15, 2019			May 30/31, 2019			TOTAL		
Site	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice	# of Chum Analyzed	# of Infested Chum	# of Lice
SI1	5	2	3	30	18	30	0	-	-	2	1	1	37	21	34
SI2	30	0	0	30	12	12	30	26	138	6	6	22	96	44	172
SI3	0	-	-	1	0	0	0	-	-	0	-	-	1	0	0
MC1	17	2	2	29	5	8	0	-	-	0	-	-	46	7	10
MC3	0	-	-	0	-	-	0	-	-	0	-	-	0	0	0
HI1	36	1	2	31	1	1	0	-	-	1	0	0	68	2	3
HI2	0	-	-	30	2	2	30	5	5	0	-	-	60	7	7
BS1	37	24	57	0	-	-	31	31	220	0	-	-	68	55	277
BS2	0	-	-	30	22	62	31	24	98	0	-	-	61	46	160
BS3	30	3	4	2	1	4	0	-	-	0	-	-	32	4	8
BS4	1	0	0	30	16	45	24	23	61	0	-	-	55	39	106
BS5	32	2	2	30	5	7	30	4	4	0	-	-	92	11	13
BS6	30	12	16	2	0	0	12	10	35	0	-	-	44	22	51
FC2	4	4	5	16	8	20	3	2	4	0	-	-	23	14	29
FC3	14	1	1	4	1	4	1	1	3	0	-	-	19	3	8
FC4	30	5	9	0	-	-	0	-	-	0	-	-	30	5	9
FC5	30	13	14	30	12	21	0	-	-	0	-	-	60	25	35
TOTAL	296	69	115	295	103	216	192	126	568	9	7	23	792	305	922

Table 5: The number of sea lice found on chum salmon collected in Clayoquot Sound in 2019 summarized by the 17 sites where beach seining was conducted.

Site	# of Chum Analyzed	# of Infested Chum	# of Lice	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
SI1	37	21	34	56.8	0.92	1.6
SI2	96	44	172	45.8	1.79	3.9
SI3	1	0	0	0.0	0.00	0.0
MC1	46	7	10	15.2	0.22	1.4
MC3	0	0	0	-	-	-
HI1	68	2	3	2.9	0.04	1.5
HI2	60	7	7	11.7	0.12	1.0
BS1	68	55	277	80.9	4.07	5.0
BS2	61	46	160	75.4	2.62	3.5
BS3	32	4	8	12.5	0.25	2.0
BS4	55	39	106	70.9	1.93	2.7
BS5	92	11	13	12.0	0.14	1.2
BS6	44	22	51	50.0	1.16	2.3
FC2	23	14	29	60.9	1.26	2.1
FC3	19	3	8	15.8	0.42	2.7
FC4	30	5	9	16.7	0.30	1.8
FC5	60	25	35	41.7	0.58	1.4
TOTAL	792	305	922	38.5	1.16	3.0

Table 6:Calculated sea lice prevalence, abundance and intensity by site as
determined for chum salmon collected in Clayoquot Sound, BC in 2019.

Table 7:Calculated sea lice prevalence, abundance and intensity by sampling area as
determined for chum salmon collected in Clayoquot Sound, BC in 2019.

Sampling Area (# of Sites)	# of Chum Analyzed	# of Infested Chum	# of Lice	Sea Lice Prevalence (%)	Sea Lice Abundance	Sea Lice Intensity
SI (3)	134	65	206	48.5	1.54	3.2
MC (2)	46	7	10	15.2	0.22	1.4
HI (2)	128	9	10	7.0	0.08	1.1
BS (6)	352	177	615	50.3	1.75	3.5
FC (4)	132	47	81	35.6	0.61	1.7
TOTAL	792	305	922	38.5	1.16	3.0

3.4.2 Infestation Rates of Threespine Stickleback

A total of 31 threespine stickleback were collected during beach seine sampling within Clayoquot Sound and were inspected for sea lice infestation. The samples were all collected in week 1 of sampling (April 10/11, 2019) with 29 stickleback collected at BS1, one at FC2 and one collected at FC5 (Table 3). A total of 24 threespine stickleback were found to be infested with 65 sea lice (Table 4). This data reflects the identification of sea lice of either species (*L. salmonis and C. clemensi*) on inspected threespine stickleback and these combined numbers were used to calculate prevalence, abundance and intensity. All of the infested samples were collected at site BS1 on April 10, 2019.

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 24 threespine stickleback were found to be infested with at least one louse. The prevalence of sea lice on the threespine stickleback sample population (n=31) collected in Clayoquot Sound in 2019 was 77.4 %.

A total of 65 sea lice were identified during laboratory analysis of retained threespine stickleback. 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 threespine stickleback sample population (n=31) collected in Clayoquot Sound in 2019 was 2.10.

The intensity of sea lice infestation, as defined as the number of sea lice on a single threespine stickleback, ranged from one louse found on four individuals to a maximum of six lice found on one threespine stickleback. The calculated sea lice intensity for the threespine stickleback sample population was 2.7.

3.4.3 Infestation Rates of Coho Salmon

A total of seven coho salmon were collected in Clayoquot Sound in 2019. One coho salmon was found to be infested with three lice resulting in a species prevalence of 14.3 % and an abundance of 0.43 (Table 4). The infested coho salmon was collected at site FC2 on May 31, 2019.

3.5 Infestation Rates by Sea Lice Species

A total of 616 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 271 individuals and 374 *Caligus clemensi* sea lice were found on 169 of the 830 samples analyzed in the lab (Appendix III). There were 110 samples that were infested with both *L. salmonis* and *C. clemensi*.

3.5.1 Infestation Rates by Sea Lice Species on Chum Salmon

An analysis of the species of sea lice identified on the 305 infested chum salmon collected in Clayoquot Sound in 2019 was completed and is presented in Table 8. A total of 593 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 255 juvenile chum salmon and 329 *Caligus clemensi* sea lice were found on 150 of the juvenile chum salmon analyzed in the lab (Appendix III). There were 100 chum salmon infested with lice from both species. The analysis of the species of sea lice on infested chum salmon was also summarized by grouped sampling area and presented in Table 9.

Number of lice	
128	
218	
196	
19	
20	
11	
1	
593	
35	
120	
87	
44	
35	
4	
3	
0	
1	
329	
	Number of lice 128 218 196 19 20 11 1 593 35 120 87 44 35 4 3 0 1 33 33 33 33 33 33 33 33 33 33 33 33 329

Table 8:The number of sea lice in each life stage by species identified on chum
salmon from Clayoquot Sound 2019. LEP = Lepeophtheirus salmonis CAL =
Caligus clemensi

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.

		(Num	Sampling) Area n analvzec	1)	
Life Stage'	All Sites (792)	SI (134)	MC (46)	HI (128)	BS (352)	FC (132)
LEP Co	128	14	0	2	104	8
LEP C1	218	28	2	1	158	29
LEP C2	196	13	4	2	158	19
LEP PAM	19	3	0	1	12	3
LEP PAF	20	1	0	1	12	6
LEP AM	11	1	0	0	7	3
LEP AF	1	0	0	0	1	0
TOTAL LEP	593	60	6	7	452	68
CAL Co	35	20	1	0	13	1
CAL C1	120	55	3	2	52	8
CAL C2	87	33	0	1	50	3
CAL C3	44	11	0	0	33	0
CAL C4	35	25	0	0	10	0
CAL PAM	4	0	0	0	3	1
CAL PAF	3	1	0	0	2	0
CAL AM	0	0	0	0	0	0
CAL AF	1	1	0	0	0	0
TOTAL CAL	329	146	4	3	163	13

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

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 Threespine Stickleback

An analysis of the species of sea lice identified on the 24 infested threespine stickleback collected in Clayoquot Sound in 2019 was completed and is presented in Table 10. A total of 23 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 16 threespine stickleback and 42 *Caligus clemensi* sea lice were found on 18 of the threespine stickleback analyzed in the lab (Appendix III). There were ten threespine stickleback infested with lice from both species.

Table 10: The number of sea lice in each life stage by species identified on coho salmon from Clayoquot Sound 2019. LEP = *Lepeophtheirus salmonis* CAL = *Caligus clemensi*

Number of lice
2
16
5
0
0
0
0
23
2
17
13
9
1
0
0
0
0
42

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 fifth year of beach seining and sea lice analysis conducted for wild juvenile salmonid monitoring in Clayoquot Sound, BC by Cermaq Canada. This report is limited to the summary and presentation of data from sampling and analysis completed in 2019.

A total of 799 juvenile salmonids and 31 threespine stickleback underwent analysis for sea lice infestation including 792 chum salmon and seven coho salmon. No pink salmon, sockeye salmon or Atlantic salmon were captured during sampling completed in Clayoquot Sound in 2019.

From the total sample population 330 samples were infested with 990 sea lice. The calculated prevalence for the total sample population was 39.8 % and the sea lice abundance was 1.19 for the sample population collected in Clayoquot Sound in 2019.

Chum salmon smolts were captured in significantly greater numbers than any other species. A total of 4,740 chum salmon were captured, representing 97.9 % of all captured samples. Of the 4,740 chum captured, 792 were kept for lab analysis for sea lice infestation. A total of 305 chum smolts were found to be infested with a total of 922 lice resulting in a calculated prevalence of 38.5 %, abundance of 1.16 and an average intensity of 3.0 for the chum sample population.

Seven coho salmon were captured and retained for sea lice analysis. One coho smolt was found to be infested with three lice resulting in a calculated prevalence of 14.3 %, abundance of 0.43 and an average intensity of 3.0 for the coho salmon sample population.

A total of 31 threespine stickleback were collected during beach seine sampling within Clayoquot Sound and were inspected for sea lice infestation. A total of 24 threespine stickleback were found to be infested with 65 sea lice resulting in a calculated prevalence of 77.4 %, abundance of 2.10 and an average intensity of 2.7 for the threespine stickleback sample population. All of the infested samples were collected at site BS1 on April 10, 2019.

A total of 616 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 271 individuals and 374 *Caligus clemensi* sea lice were found on 169 of the 830 samples analyzed in the lab. There were 110 samples that were infested with both *L. salmonis* and *C. clemensi*.

For the chum salmon sample population, a total of 593 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 255 juvenile chum salmon and 329 *Caligus clemensi* sea lice were found on 150 of the juvenile chum salmon analyzed in the lab. There were 100 chum salmon infested with lice from both species.

For the threespine stickleback sample population, a total of 23 *Lepeophtheirus salmonis* sea lice of various life stages were identified on 16 threespine stickleback and 42 *Caligus clemensi* sea lice were found on 18 of the threespine stickleback analyzed in the lab. There were ten threespine stickleback infested with lice from both species.

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Date	Time	Site Name	Salinity (ppt) 0.2 m	Temperature (° C) 0.2 m
 04/10/19	09:03	SI1	25.0	8.9
04/10/19	09:34	SI2	20.7	9.2
04/10/19	10:14	SI3	11.4	8.7
04/10/19	10:54	MC1	13.0	10.0
04/10/19	11:24	MC3	24.7	9.6
04/10/19	12:05	HI1	14.3	9.4
04/10/19	12:44	HI2	26.6	10.4
04/10/19	13:27	BS1	30.1	10.6
04/10/19	14:11	BS2	30.0	10.4
04/11/19	08:08	FC3	29.2	9.4
04/11/19	08:34	FC2	22.1	9.5
04/11/19	09:06	FC4	21.5	9.5
04/11/19	09:38	FC5	23.7	9.4
04/11/19	10:08	BS6	29.2	9.4
04/11/19	10:39	BS4	24.1	9.0
04/11/19	11:08	BS5	14.3	8.7
04/11/19	11:49	BS3	14.2	8.9
04/30/19	08:20	SI1	29.2	12.1
04/30/19	09:00	SI2	27.8	11.1
04/30/19	09:30	SI3	26.1	12.0
04/30/19	10:05	MC1	28.5	14.2
04/30/19	10:35	MC3	28.0	14.4
04/30/19	11:05	HI1	23.6	15.1
04/30/19	11:40	HI2	25.3	12.0
04/30/19	12:30	BS1	28.3	13.7
04/30/19	13:00	BS2	27.2	14.1
05/01/19	08:10	BS3	29.1	11.5
05/01/19	08:35	BS4	27.8	10.9
05/01/19	09:10	BS5	18.4	10.9
05/01/19	09:50	FC4	25.9	11.4
05/01/19	10:20	FC2	25.3	12.9
05/01/19	10:45	FC3	25.2	12.4
05/01/19	11:05	FC5	29.7	10.6
05/01/19	11:30	BS6	28.7	11.2
05/14/19	09:03	SI1	31.0	12.2
05/14/19	09:31	SI2	29.2	12.1
05/14/19	10:12	SI3	20.2	12.5
05/14/19	10:36	MC1	27.0	13.3
05/14/19	11:16	MC3	27.6	13.2
05/14/19	12:01	HI1	11.7	13.2
05/14/19	12:26	HI2	20.0	13.1
05/14/19	13:24	BS1	30.3	11.9
05/14/19	13:50	BS2	28.5	12

Appendix I – Field Data

Date	Time	Site Name	Salinity (ppt) 0.2 m	Temperature (° C) 0.2 m
05/15/19	08:18	BS6	30.3	11.9
05/15/19	08:44	FC5	30.7	11.8
05/15/19	09:07	FC4	28.9	13.4
05/15/19	09:26	FC2	28.1	12.6
05/15/19	09:55	FC3	29.0	12.2
05/15/19	10:40	BS5	17.3	12.0
05/15/19	11:20	BS4	15.0	11.3
05/15/19	11:51	BS3	26.5	14.6
05/30/19	08:54	MC3	24.2	15.1
05/30/19	09:20	MC1	24.7	16.0
05/30/19	09:55	SI3	19.7	15.6
05/30/19	10:35	SI2	30.9	16.4
05/30/19	11:05	SI1	29.0	17.8
05/30/19	11:55	HI1	11.9	18.7
05/30/19	12:35	HI2	15.2	16.2
05/30/19	13:05	BS1	28.8	18.0
05/30/19	13:35	BS2	30.0	16.8
05/31/19	11:30	BS3	29.3	15.0
05/31/19	11:55	BS6	16.0	15.6
05/31/19	12:26	FC3	29.8	14.0
05/31/19	12:40	FC2	30.0	14.9
05/31/19	13:20	FC4	18.8	17.4
05/31/19	13:35	FC5	26.8	16.0
05/31/19	14:10	BS5	18.7	17.8
05/31/19	14:40	BS4	26.6	17.2

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
04/10/19	09:03	SI1	showers, calm	Mid	0	0	5	5	0	0	0	0	0	0	0	0	0	1 herring, 1 greenling, 4 sculpin, 1 dungeness crab, abundant sea
04/10/19	09:34	SI2	showers, calm	Mid	0	0	41	30	0	0	0	0	0	0	0	0	0	1 goby, 5 sea cucumber, 12 pipefish, 3 sand dab, 2 greenling
04/10/19	10:14	SI3	showers, calm	Low	0	0	0	0	0	0	2	0	0	0	0	0	0	25 sand dab, 20 sculpin, 5 pipefish, 3 striped perch, thick
04/10/19	10:54	MC1	showers, calm	Low	0	0	17	17	1	1	0	0	0	0	0	0	0	deep muddy sand 10 tubesnout, 5 sand dab, 3 sculpin, 1 sandlance, 1 red rock crab
04/10/19	11:24	MC3	showers, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	6 perch, 1 sand dab, 2 greenling, 20 sand lance, 2 greenling, 1 sculpin, 8 tubesnout
04/10/19	12:05	HI1	showers, calm	Low	0	0	36	36	0	0	0	0	0	0	0	0	0	4 sea cucumber, 1 sculpin, 1 sea star, 3 tubesnout
04/10/19	12:44	HI2	showers, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	1 herring, 1 goby
04/10/19	13:27	BS1	cloudy, calm	Mid	0	0	39	37	0	0	0	0	0	0	80	29	0	1 dungeness crab, 12 pipefish
04/10/19	14:11	BS2	cloudy, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	30 sand dab, 5 sculpin
04/11/19	08:08	FC3	overcast, calm	Mid	0	0	14	14	0	0	0	0	0	0	0	0	0	jellyfish
04/11/19	08:34	FC2	showers, calm	Mid	0	0	4	4	0	0	0	0	0	0	1	1	0	2 tubesnout, 1 sculpin
04/11/19	09:06	FC4	showers, calm	Mid	0	0	210	30	0	0	0	0	0	0	0	0	0	1 tubesnout
04/11/19	09:38	FC5	showers, calm	Low	0	0	85	30	0	0	0	0	0	0	1	1	0	2 anchovy, 1 perch, 2 dungeness crab
04/11/19	10:08	BS6	showers, calm	Low	0	0	245	30	0	0	0	0	0	0	0	0	0	5 sand dab, 5 sculpin
04/11/19	10:39	BS4	showers, calm	Low	0	0	1	1	0	0	0	0	0	0	0	0	0	2 perch, 1 sea star, moved set due to log
04/11/19	11:08	BS5	showers, calm	Low	0	0	60	32	0	0	1	0	0	0	0	0	0	1 brittle star
04/11/19	11:49	BS3	showers, calm	Low	0	0	345	30	0	0	0	0	0	0	0	0	0	15 sand dab, 10 tubesnout, 12 sculpin
04/30/19	08:20	SI1	clear, calm	Mid	0	0	105	30	0	0	0	0	0	0	0	0	0	
04/30/19	09:00	SI2	clear, calm	Mid	0	0	235	30	0	0	0	0	0	0	0	0	0	
04/30/19	09:30	SI3	clear, calm	Mid	0	0	1	1	3	3	0	0	0	0	0	0	0	
04/30/19	10:05	MC1	clear, calm	High	0	0	29	29	0	0	0	0	0	0	0	0	0	15 pile perch
04/30/19	10:35	MC3	clear, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	30 shiner perch, 1 rockfish, 1 surf perch, 2 pipefish
04/30/19	11:05	HI1	clear, calm	High	0	0	735	31	0	0	0	0	0	0	0	0	1	
04/30/19	11:40	HI2	clear, calm	High	0	0	1485	30	0	0	0	0	0	0	0	0	0	
04/30/19	12:30	BS1	clear, choppy	High	0	0	0	0	0	0	0	0	0	0	0	0	0	
04/30/19	13:00	BS2	clear, calm	High	0	0	85	30	0	0	0	0	0	0	0	0	0	
05/01/19	08:10	BS3	clear, calm	Low	0	0	2	2	0	0	0	0	0	0	0	0	0	3 rockfish, 10 green crab, 1 cutthroat
05/01/19	08:35	BS4	clear, calm	mid	0	0	39	30	0	0	0	0	0	0	0	0	0	Moved site due to large log
05/01/19	09:10	BS5	clear, calm	Mid	0	0	410	30	0	0	0	0	0	0	0	0	0	
05/01/19	09:50	FC4	clear, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	1 sculpin, 1 pipefish
05/01/19	10:20	FC2	clear, calm	Mid	0	0	16	16	0	0	0	0	0	0	0	0	0	2 sculpin, 1 rockfish
05/01/19	10:45	FC3	clear, calm	Mid	0	0	4	4	0	0	0	0	0	0	0	0	0	2 pipefish
05/01/19	11:05	FC5	clear, calm	High	0	0	30	30	0	0	0	0	0	0	0	0	0	
05/01/19	11:30	BS6	clear, calm	High	0	0	2	2	0	0	0	0	0	0	0	0	0	1 rockfish, 1 red rock crab, 1 california sea cucumber
05/14/19	09:03	SI1	rain showers	high	0	0	1	1	0	0	0	0	0	0	0	0	0	20 herring, 1 rock crab, 1 kelp crab, 1 sculpin, 5 sand dab, 1

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
																		tubesnout
05/14/19	09:31	SI2	overcast	high	0	0	36	30	0	0	0	0	0	0	0	0	0	5 sculpin, 1 gunnel, 2 striped perch, 1 pile perch, 2 tubesnout
05/14/19	10:12	SI3	overcast	hiah	0	0	0	0	0	0	5	0	0	0	0	0	0	d
05/14/19	10:36	MC1	rain	high	0	0	0	0	0	0	0	0	0	0	0	0	0	1 sculpin, 1 pile perch, 1 tubesnout
05/44/40	44.40				~	~		~	~	~	~		~		~	~	~	7 pile perch, 1 sculpin, 3
05/14/19	11:16	MC3	rain	mid	0	0	0	0	0	0	0	0	0	0	0	0	0	rockfish
05/14/19	12:01	HI1	rain	mid	0	0	0	0	0	0	0	0	0	0	0	0	0	2 sculpin
05/14/19	12:26	HI2	rain	mid	0	0	160	30	0	0	0	0	0	0	0	0	0	
05/14/19	13:24	BS1	rain	low	0	0	95	31	0	0	0	0	0	0	0	0	0	3 tubesnout, 1 sculpin, 100 sand dab
05/14/19	13:50	BS2	rain	low	0	0	60	31	0	0	0	0	0	0	0	0	0	30 sculpin, 10 tubesnout, 5 greenling
05/15/19	08:18	BS6	cloudy	mid	0	0	12	12	0	0	0	0	0	0	0	0	0	40 pile perch, 6 tubesnout, 20 rockfish
05/15/19	08:44	FC5	cloudy	mid	0	0	0	0	0	0	0	0	0	0	0	0	0	45 tubesnout, 4 rockfish, 15 sculpin, 55 shiner perch
05/15/19	09:07	FC4	cloudy	mid	0	0	0	0	0	0	0	0	0	0	0	0	0	1 anchovy, 10 sculpin, 5 gunnel, 2 greenling
05/15/19	09:26	FC2	cloudy with some sun	mid	0	0	3	3	0	0	0	0	0	0	0	0	0	10 tubesnout
05/15/19	09:55	FC3	cloudv	mid	0	0	1	1	0	0	0	0	0	0	0	0	0	2 kelp crab. 1 tubesnout
05/15/19	10.40	BS5	cloudy	hiah	0	0	60	30	1	1	1	0	0	0	0	0	0	······································
05/15/19	11.20	BS4	sunny	hiah	0	0	24	24	0	0	0	0	0	0	0	0	0	1 sculpin
05/15/19	11:51	BS3	sunny	hiah	0	0	0	0	0	0	0	0	0	0	0	0	0	
05/30/19	08.54	MC3	overcast calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	2 shiner perch
05/30/19	00.04	MC1	overcast calm	Mid	0	0	0	0	1	1	0	0	0	0	0	0	0	A stringd perch 12 shiner perch
00/00/19	03.20		overcast, cann	IVIIU	0	0		0				0		0	0	0	0	rock in net 2 pile perch 4 shiper
05/30/19	09:55	SI3	overcast, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	perch, 2 green crab
05/30/19	10:35	SI2	overcast, calm	Mid	0	0	6	6	0	0	0	0	0	0	0	0	0	3 sandlance, 1 juvenile herring
05/30/19	11:05	SI1	overcast, calm	Mid	0	0	1	1	0	0	0	0	0	0	0	0	0	4 shiner perch, 2 pipefish
05/30/19	11:55	HI1	sunny, calm	Mid	0	0	1	1	0	0	0	0	0	0	0	0	0	2 juvenile sculpin
05/30/19	12:35	HI2	sunny, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05/30/19	13:05	BS1	sunny, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05/30/19	13:35	BS2	sunny, calm	Low	0	0	0	0	0	0	0	0	0	0	0	0	0	3 green crab, 1 sculpin
																		15 green crab, 2 sculpin, 2
05/31/19	11:30	BS3	overcast, calm	Mid	0	0	0	0	0	0	2	0	0	0	0	0	1	tubesnout, 1 gunnel, 1 chinook mort due to green crab
05/31/19	11:55	BS6	overcast, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	45 shiner perch, 4 pile perch, 1 juvenile lingcod, rock in net
05/31/19	12:26	FC3	overcast, calm	High	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught
05/31/19	12:40	FC2	overcast, light breeze	High	0	0	0	0	1	1	0	0	0	0	0	0	0	1 red rock crab, 1 cutthroat
05/31/19	13:20	FC4	overcast, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught, moved to Virge Creek due to log, good set
05/31/19	13:35	FC5	partly cloudy, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	No fish caught, very strong tide
05/31/19	14:10	BS5	partly cloudy, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	2 juvenile sculpin, 10 green crab
05/31/19	14:40	BS4	sunny, calm	Mid	0	0	0	0	0	0	0	0	0	0	0	0	0	10 pile perch, 20 striped perch, 150 shiner perch

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/19	HI 1	СМ	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	44	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	48	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	51	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	55	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	67	3.6	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/10/19	HI 1	СМ	53	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	64	3.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	53	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	57	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	HI 1	СМ	73	4.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	52	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	60	2.4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	50	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	64	3.1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0

Appendix III – Sea Lice Analysis Data

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/11/19	FC 5	СМ	54	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	58	2.2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	CM	56	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	48	1.5	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	CM	61	2.8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	CM	63	3.3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	55	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	67	3.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	58	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	62	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	58	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	53	2.1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	61	2.8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	60	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	64	3.1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
04/11/19	FC 5	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	61	2.8	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	56	2.2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/11/19	FC 5	СМ	69	4.1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	62	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	63	2.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	60	2.8	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	СМ	66	3.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 5	TSB	55	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	45	1.0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
04/10/19	BS 1	СМ	48	1.5	0	0		0	0	0	0	1	1	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	43	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	61	2.8	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	41	0.9	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	53	1.8	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	40	0.8	0	0		0	0	0	0	1	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	50	1.5	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0
04/10/19	BS 1	СМ	46	1.4	0	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	49	1.3	0	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	55	2.2	0	1	2	0	0	0	0	0	0	1	0	0	0	0	0	0
04/10/19	BS 1	СМ	59	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	59	2.6	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	59	2.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	48	1.4	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/19	BS 1	СМ	52	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	52	1.5	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	42	1.0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	BS 1	CM	44	1.0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	47	1.4	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	BS 1	CM	44	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	52	1.6	0	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0
04/10/19	BS 1	CM	51	1.7	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
04/10/19	BS 1	CM	61	3.1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	40	0.8	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	48	1.6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/10/19	BS 1	СМ	53	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	46	1.4	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	50	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	CM	46	1.4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	СМ	49	1.3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	45	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	47	1.1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/10/19	BS 1	TSB	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	55	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	51	1.5	0	1	0	0	0	0	0	0	2	1	0	0	0	0	0	0
04/10/19	BS 1	TSB	52	1.5	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0
04/10/19	BS 1	TSB	54	1.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	45	1.2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	50	1.3	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	51	1.7	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0
04/10/19	BS 1	TSB	46	1.2	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
04/10/19	BS 1	TSB	46	1.1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	50	1.2	0	0	0	0	0	0	0	0	3	1	1	0	0	0	0	0
04/10/19	BS 1	TSB	48	1.2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	53	1.7	0	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0
04/10/19	BS 1	TSB	49	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	50	1.4	1	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
04/10/19	BS 1	TSB	47	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/19	BS 1	TSB	55	1.6	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
04/10/19	BS 1	TSB	45	0.8	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0
04/10/19	BS 1	TSB	50	1.2	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0
04/10/19	BS 1	TSB	45	1.0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0
04/10/19	BS 1	TSB	50	1.4	0	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	49	1.3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	53	1.7	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	BS 1	TSB	55	2.0	0	1	0	0	0	0	0	0	1	2	2	0	0	0	0	0
04/10/19	BS 1	TSB	52	1.7	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	СМ	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	СМ	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	СМ	37	0.6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/10/19	MC 1	СМ	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	38	0.4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	MC 1	CO	70	4.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	CM	36	0.6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/11/19	BS 5	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/11/19	BS 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	32	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 5	СМ	41	0.8	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	36	0.6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	38	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	33	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	34	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	38	0.7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	44	1.2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	37	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/11/19	BS 6	СМ	37	0.6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	40	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 6	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	32	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	37	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 3	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 1	СМ	35	0.5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 1	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 1	СМ	43	1.0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0
04/10/19	SI 1	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 1	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 4	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	37	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/10/19	SI 2	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/10/19	SI 2	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	38	0.6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	42	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	38	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	46	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	СМ	39	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	СМ	49	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	BS 3	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/11/19	BS 3	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 2	CM	59	2.5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 2	CM	50	1.5	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 2	CM	51	1.6	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 2	CM	46	1.3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 2	TSB	54	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	48	1.3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	48	1.4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	36	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	36	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	44	0.8	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/11/19	FC 4	СМ	41	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	46	1.5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	31	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	СМ	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	47	1.2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	СМ	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/11/19	FC 4	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	35	0.3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/30/19	MC 1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	39	0.7	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	MC 1	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	43	0.8	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	СМ	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	38	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	44	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	MC 1	CM	38	0.5	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0
05/01/19	BS 4	CM	50	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	CM	51	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	CM	51	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	39	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	CM	52	1.6	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
05/01/19	BS 4	CM	43	1.0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
05/01/19	BS 4	СМ	54	2.0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	CM	52	1.7	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
05/01/19	BS 4	СМ	53	1.7	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	51	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	52	1.6	1	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	50	1.5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	56	2.1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	55	1.8	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
05/01/19	BS 4	СМ	48	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	42	0.9	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 4	СМ	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

05/01/19 BS 4 CM 38 0.7 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 49 1.4 1 1 2 0	0 0 0 0
05/01/19 BS 4 CM 50 1.5 0 1 0 0 0 0 0 1 3 0 0 0 0 05/01/19 BS 4 CM 46 1.5 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 46 1.5 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 52 1.8 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 50 1.7 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 46 1.3 1 0 0 0 0 0 1 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 58 2.4 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19BS 4CM501.510000001001005/01/19BS 4CM541.802000000210000005/01/19BS 4CM481.2000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 54 1.8 0 2 0 0 0 0 2 1 0 0 0 0 05/01/19 BS 4 CM 48 1.2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
05/01/19 BS 4 CM 48 1.2 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
04/30/19 SI 2 CM 43 0.9 0 0 0 0 0 0 1 0 0 0 0 0 04/30/19 SI 2 CM 43 0.8 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0
04/30/19 SI 2 CM 43 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0
	0 0 0 0 0 0
04/30/19 SI 2 CM 45 1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0
04/30/19 SI 2 CM 42 0.9 0 0 0 0 0 0 0 1 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 42 0.7 0 0 0 0 0 0 0 0 1 0 0 0 0 0	0 0
04/30/19 SI 2 CM 42 1.0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0	0 0
04/30/19 SI 2 CM 38 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 40 0.7 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 34 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 45 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 44 1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 40 0.8 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 38 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 38 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 41 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 42 1.0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 55 1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 47 1.3 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 41 1.0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 45 1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 45 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 43 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 38 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 41 0.7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 44 0.9 0 0 0 0 0 0 0 0 1 0 0 0 0 0	0 0
04/30/19 SI 2 CM 43 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 49 1.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 43 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 49 1.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
04/30/19 SI 2 CM 46 1.0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0	0 0
05/01/19 FC 3 CM 38 0.6 0 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 (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/01/19	FC 3	СМ	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 3	СМ	50	1.5	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 3	СМ	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 3	CM	44	1.0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 3	СМ	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	47	1.2	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	50	1.3	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	45	1.0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	54	1.5	1	5	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	46	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	47	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	50	1.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	54	2.0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	45	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	40	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 2	СМ	47	1.2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	41	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	43	0.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/30/19	HI 1	СМ	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	50	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	42	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 1	CM	45	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	39	0.7	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	38	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	33	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	32	0.4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/01/19	FC 5	CM	38	0.7	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05/01/19	FC 5	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	43	0.8	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/01/19	FC 5	CM	37	0.7	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	37	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	38	0.7	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/01/19	FC 5	CM	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	33	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	34	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	37	0.6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	CM	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	35	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	34	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	36	0.5	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	36	0.6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	FC 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	56	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
04/30/19	HI 2	СМ	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	CM	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	41	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	48	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	50	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	49	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	44	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	CM	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	43	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	55	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	47	1.3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	47	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	55	2.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	46	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	53	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	43	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	42	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	HI 2	СМ	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	49	1.3	0	1	0	0	0	0	0	0	1	2	0	0	0	0	0	0
04/30/19	BS 2	СМ	39	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	47	1.3	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	42	0.8	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	51	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	58	2.3	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	46	1.2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	47	1.3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	48	1.3	1	2	2	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	47	1.2	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	BS 2	СМ	40	0.8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Holdonini His2 CML 38 0.6 0	DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
Heisorie BS2 CM 41 0.9 0	04/30/19	BS 2	СМ	38	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
943019 9832 CM 41 0.9 0 <	04/30/19	BS 2	СМ	41	0.8	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
OrdAry19 BS2 CM 37 0.6 0 <	04/30/19	BS 2	СМ	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
943019 982 CM 47 12 0 <th< td=""><td>04/30/19</td><td>BS 2</td><td>СМ</td><td>37</td><td>0.6</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	04/30/19	BS 2	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DataSoria BS2 CM 47 1.2 0 0 2 0	04/30/19	BS 2	СМ	53	1.9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
oddoring BS2 CM FA 1.9 0 <	04/30/19	BS 2	СМ	47	1.2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
D4/30/19 BS2 CM 43 0.8 0.8 1 0	04/30/19	BS 2	СМ	54	1.9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Od3019 BS2 CM 43 1.1 0 2 0 </td <td>04/30/19</td> <td>BS 2</td> <td>СМ</td> <td>38</td> <td>0.8</td> <td>0</td> <td>1</td> <td>0</td>	04/30/19	BS 2	СМ	38	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0H40019 BS2 CM 53 1.8 0 1 5 0 <	04/30/19	BS 2	СМ	43	1.1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
0400/19 BS2 CM 53 1.9 0 <	04/30/19	BS 2	СМ	53	1.8	0	1	5	0	0	0	0	0	0	1	0	0	0	0	0	0
0430/19 BS2 CM 62 1.9 1 0 2 0 <	04/30/19	BS 2	СМ	53	1.9	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
0430/19 BS2 CM S3 2.0 <	04/30/19	BS 2	СМ	52	1.9	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Odd20/19 BS2 CM 48 1.5 0 1 0	04/30/19	BS 2	СМ	53	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0430/19 BS2 CM 48 1.6 0 <	04/30/19	BS 2	СМ	48	1.5	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Image: Defaulting BS 2 CM 46 12 2 0 <td>04/30/19</td> <td>BS 2</td> <td>СМ</td> <td>48</td> <td>1.6</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td>	04/30/19	BS 2	СМ	48	1.6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 6 CM 35 0.4 0	04/30/19	BS 2	СМ	46	1.2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0500/19 BS 6 CM 34 0.4 0	05/01/19	BS 6	СМ	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19 S13 CO 38 0.7 0	05/01/19	BS 6	СМ	34	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19 SI 3 CO 96 10.7 0	04/30/19	SI 3	CO	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19 S1 3 CO 87 8.6 0	04/30/19	SI 3	CO	96	10.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19 SI 3 CM 29 0.3 0	04/30/19	SI 3	CO	87	8.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 38 0.7 0	04/30/19	SI 3	СМ	29	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 41 0.8 0	05/01/19	BS 5	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 41 0.9 0	05/01/19	BS 5	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 36 0.6 0	05/01/19	BS 5	СМ	41	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 35 0.5 0	05/01/19	BS 5	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 37 0.6 0	05/01/19	BS 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 40 0.7 0	05/01/19	BS 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 37 0.5 0	05/01/19	BS 5	СМ	40	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 35 0.3 0	05/01/19	BS 5	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 40 0.6 0	05/01/19	BS 5	СМ	35	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 41 0.9 0 1 0	05/01/19	BS 5	СМ	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 36 0.5 0	05/01/19	BS 5	СМ	41	0.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 37 0.6 0	05/01/19	BS 5	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 40 0.8 0	05/01/19	BS 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 43 0.8 0	05/01/19	BS 5	СМ	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 41 0.8 0	05/01/19	BS 5	СМ	43	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 46 1.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/01/19	BS 5	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05/01/19	BS 5	СМ	46	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 39 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/01/19	BS 5	СМ	39	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 37 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/01/19	BS 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19 BS 5 CM 46 1.3 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/01/19	BS 5	СМ	46	1.3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/01/19	BS 5	CM	44	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	СМ	40	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	CM	46	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	CM	40	0.8	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	CM	39	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	CM	35	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	СМ	40	0.8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/01/19	BS 5	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	СМ	48	1.2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	43	0.7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	43	1.0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	45	1.0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	43	1.0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	60	2.8	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
04/30/19	SI 1	CM	61	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	45	1.3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	46	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	44	1.0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	SI 1	CM	45	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	47	1.3	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	SI 1	СМ	45	1.2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	48	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	43	1.0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	SI 1	СМ	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	42	1.0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	46	1.1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	47	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	CM	42	0.9	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
04/30/19	SI 1	CM	78	5.0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	SI 1	CM	36	0.6	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
04/30/19	SI 1	CM	45	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	СМ	45	1.0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
04/30/19	SI 1	CM	46	1.2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	СМ	44	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04/30/19	SI 1	СМ	46	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/19	SI 1	СМ	58	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19	FC 3	СМ	49	1.2	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/15/19	FC 2	СМ	53	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19	FC 2	CM	53	1.7	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0
05/15/19	FC 2	СМ	51	1.7	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0
05/14/19	SI 2	CM	41	1.0	1	0	0	0	0	0	0	1	4	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	55	2.3	1	1	1	0	0	0	0	0	0	2	0	0	0	0	0	0
05/14/19	SI 2	СМ	47	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	SI 2	CM	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	41	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	54	1.7	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/14/19	SI 2	CM	50	1.5	1	2	0	0	0	0	0	1	3	4	0	1	0	0	0	0
05/14/19	SI 2	СМ	47	1.5	1	0	0	0	0	1	0	0	1	3	1	5	0	0	0	0
05/14/19	SI 2	CM	41	1.0	1	0	0	0	0	0	0	1	3	1	0	1	0	0	0	0
05/14/19	SI 2	CM	48	1.5	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0
05/14/19	SI 2	СМ	48	1.5	0	1	1	0	0	0	0	1	4	2	2	1	0	0	0	0
05/14/19	SI 2	СМ	56	2.1	0	3	2	0	0	0	0	2	3	1	1	2	0	0	0	0
05/14/19	SI 2	СМ	54	1.9	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
05/14/19	SI 2	СМ	53	2.0	0	0	1	0	0	0	0	0	2	1	3	7	0	0	0	0
05/14/19	SI 2	СМ	48	1.3	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	46	1.0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	48	1.3	0	0	0	0	0	0	0	0	1	3	1	1	0	0	0	0
05/14/19	SI 2	СМ	36	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	38	0.8	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	65	2.8	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0
05/14/19	SI 2	СМ	46	1.3	1	1	0	0	0	0	0	0	6	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	51	1.9	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
05/14/19	SI 2	СМ	41	0.9	0	0	0	0	0	0	0	1	1	1	0	1	0	0	0	0
05/14/19	SI 2	СМ	37	0.7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/14/19	SI 2	СМ	48	1.6	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/14/19	SI 2	СМ	45	1.2	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0
05/14/19	SI 2	СМ	40	0.7	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/14/19	SI 2	СМ	55	2.2	0	1	0	1	0	0	0	0	0	3	0	0	0	0	0	0
05/14/19	SI 2	CM	44	1.1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/14/19	SI 2	СМ	41	0.9	0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0
05/15/19	BS 6	СМ	44	1.1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/15/19	BS 6	СМ	45	1.1	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	0
05/15/19	BS 6	CM	44	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19	BS 6	СМ	47	1.1	2	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0
05/15/19	BS 6	СМ	49	1.3	0	1	1	0	0	0	0	0	3	0	0	0	0	0	0	0
05/15/19	BS 6	СМ	47	1.2	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19	BS 6	СМ	43	1.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19	BS 6	СМ	49	1.4	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19	BS 6	СМ	38	0.7	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0

Osfisfia BS6 CM 40 0.9 1 0	DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
Deskifying Bske CM 43 1.1 1 3 0	05/15/19	BS 6	CM	40	0.9	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0
Obs/Er/9 BS & CM CM H I	05/15/19	BS 6	CM	43	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obstrigting BS4 CM 41 0.9 0 1 0	05/15/19	BS 6	CM	43	1.1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OBSATI9 BS 4 CM 40 1.0 0 1 0	05/15/19	BS 4	CM	41	0.9	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0
Order/19 BS4 CM 40 0.7 1 3 1 0	05/15/19	BS 4	СМ	40	1.0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0
06/15/19 BS4 CM 39 0.8 0	05/15/19	BS 4	CM	40	0.7	1	3	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Operation Operation <t< td=""><td>05/15/19</td><td>BS 4</td><td>CM</td><td>39</td><td>0.8</td><td>1</td><td>0</td><td>3</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>	05/15/19	BS 4	CM	39	0.8	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
OS15191 B54 CM 39 0.7 0 0 0 0 1 0 <	05/15/19	BS 4	CM	39	0.8	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 45 1.2 0 2 2 0	05/15/19	BS 4	CM	39	0.7	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
OS15/19 BS4 CM 38 0.8 0 1 0 <	05/15/19	BS 4	CM	45	1.2	0	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0
OS/15/19 BS4 CM 43 0.9 1 1 0	05/15/19	BS 4	СМ	38	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OS/15/19 BS 4 CM 42 0.9 0	05/15/19	BS 4	CM	43	0.9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OS/15/19 BS 4 CM 45 1.3 0	05/15/19	BS 4	CM	42	0.9	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 40 0.8 0	05/15/19	BS 4	СМ	45	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 38 0.8 0	05/15/19	BS 4	СМ	40	0.8	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
O5/15/19 BS 4 CM 42 1.0 0 1 1 0	05/15/19	BS 4	СМ	38	0.8	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Ob/15/19 BS 4 CM 34 0.4 1 0	05/15/19	BS 4	СМ	42	1.0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 41 1.0 0 8 0	05/15/19	BS 4	СМ	34	0.4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 46 1.4 3 0 1 0	05/15/19	BS 4	СМ	41	1.0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 37 0.8 1 0	05/15/19	BS 4	СМ	46	1.4	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 38 0.7 0	05/15/19	BS 4	СМ	37	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 40 0.9 1 1 0	05/15/19	BS 4	СМ	38	0.7	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/15/19 BS 4 CM 40 0.8 1 3 0	05/15/19	BS 4	СМ	40	0.9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 39 0.8 0 2 0	05/15/19	BS 4	СМ	40	0.8	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 43 1.1 1 2 0	05/15/19	BS 4	СМ	39	0.8	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 4 CM 42 1.0 0 2 0 0 0 0 1 0	05/15/19	BS 4	СМ	43	1.1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CO 84 6.6 0	05/15/19	BS 4	СМ	42	1.0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0
05/15/19 BS 5 CM 38 0.8 0	05/15/19	BS 5	CO	84	6.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 39 0.7 0	05/15/19	BS 5	СМ	38	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 35 0.5 0	05/15/19	BS 5	СМ	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 37 0.5 0	05/15/19	BS 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 36 0.6 0	05/15/19	BS 5	СМ	37	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 38 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05/15/19	BS 5	CM	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 35 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	35	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 39 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	39	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 36 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 38 0.7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	38	0.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 40 0.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 38 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 35 0.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 40 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

05/15/19 BS 5 CM 36 0.5 0	DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/15/19 BS 5 CM 40 0.9 0	05/15/19	BS 5	СМ	36	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 35 0.5 0	05/15/19	BS 5	СМ	40	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 36 0.6 0	05/15/19	BS 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 46 1.2 0	05/15/19	BS 5	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 33 0.4 0	05/15/19	BS 5	СМ	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 36 0.6 0	05/15/19	BS 5	СМ	33	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 39 0.8 1 0	05/15/19	BS 5	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 38 0.7 0	05/15/19	BS 5	СМ	39	0.8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 38 0.8 0 1 0	05/15/19	BS 5	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 37 0.6 0	05/15/19	BS 5	СМ	38	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 36 0.6 0	05/15/19	BS 5	СМ	37	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 47 1.2 0	05/15/19	BS 5	СМ	36	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 37 0.7 0	05/15/19	BS 5	СМ	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 40 0.8 0 1 0	05/15/19	BS 5	СМ	37	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/15/19 BS 5 CM 35 0.5 0	05/15/19	BS 5	СМ	40	0.8	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 51 1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/15/19	BS 5	СМ	35	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	05/14/19	HI 2	СМ	51	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 42 0.9 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	42	0.9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 38 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 43 0.9 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	43	0.9	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 46 1.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	46	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 42 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	42	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 40 0.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	40	0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 46 1.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	46	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 60 2.7 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	60	2.7	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 59 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	59	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 55 1.9 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	55	1.9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 56 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	56	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 51 1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	51	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 57 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	57	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 58 2.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	58	2.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 57 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	57	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 38 0.7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	38	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 54 1.9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	54	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 65 3.2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	65	3.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 44 1.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	44	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 64 3.1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	64	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 57 2.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	57	2.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 50 1.7 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	50	1.7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 60 3.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	60	3.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 40 0.8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	40	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 HI 2 CM 56 2.6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	05/14/19	HI 2	СМ	56	2.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

control H2 CM 66 24 0 <th< th=""><th>DATE COLLECTED</th><th>SITE</th><th>FISH SPECIES</th><th>LENGTH (mm)</th><th>WEIGHT (g)</th><th>LEP Co</th><th>LEP C1</th><th>LEP C2</th><th>LEP PAM</th><th>LEP PAF</th><th>LEP AM</th><th>LEP AF</th><th>CAL Co</th><th>CAL C1</th><th>CAL C2</th><th>CAL C3</th><th>CAL C4</th><th>CAL PAM</th><th>CAL PAF</th><th>CAL AM</th><th>CAL AF</th></th<>	DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
bb1419 H CM 65 24 0 0 0 0<	05/14/19	HI 2	СМ	56	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
IBS-1499 H12 CM 60 3.1 0	05/14/19	HI 2	СМ	55	2.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obstanti Hiz CM S1 1.9 0 <	05/14/19	HI 2	СМ	60	3.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05H/19 B5.2 CM 55 17 0 </td <td>05/14/19</td> <td>HI 2</td> <td>СМ</td> <td>51</td> <td>1.9</td> <td>0</td>	05/14/19	HI 2	СМ	51	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
064449 BS2 CM 64 25 1 0 <th< td=""><td>05/14/19</td><td>BS 2</td><td>СМ</td><td>55</td><td>1.7</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td><td>0</td></th<>	05/14/19	BS 2	СМ	55	1.7	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
064/449 BS2 CM 65 1.8 0 <	05/14/19	BS 2	СМ	64	2.5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obstrat/19 BS2 CM 54 1.9 0	05/14/19	BS 2	СМ	55	1.8	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0
06/1419 BS2 CM 66 17 0 0 0 0 0 1 1 0 0 0 0 08/1419 BS2 CM 46 1.3 1 0	05/14/19	BS 2	СМ	54	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0bst 449 552 CM 449 1.3 1 0 1 0 <	05/14/19	BS 2	СМ	56	1.7	0	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0
08/14/19 BS2 CM 49 1.2 0 2 1 0 <	05/14/19	BS 2	СМ	46	1.3	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0
06474/9 BS2 CM 50 1.6 0 1 4 0 <	05/14/19	BS 2	СМ	49	1.2	0	2	1	0	0	0	0	0	0	0	1	0	0	0	0	0
05/14/19 BS2 CM 45 0.9 0	05/14/19	BS 2	СМ	50	1.6	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0
06/14/19 BS2 CM 55 1.6 6 4 4 0 3 1 0 2 0 0 1 0 0 05/14/19 BS2 CM 43 1.0 0 1 0	05/14/19	BS 2	СМ	45	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06/14/19 BS2 CM 43 10 0 1 0 <	05/14/19	BS 2	СМ	55	1.6	6	4	4	0	3	1	0	2	0	0	2	2	0	1	0	0
06/14/19 BS2 CM 48 1.4 1 0 2 0 0 0 0 0 1 0	05/14/19	BS 2	СМ	43	1.0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
06/14/19 BS 2 CM 61 1.9 0 1 0	05/14/19	BS 2	СМ	48	1.4	1	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0
06/14/19 BS2 CM 45 1.1 0	05/14/19	BS 2	СМ	61	1.9	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66/14/19 BS2 CM 54 1.9 1 0	05/14/19	BS 2	СМ	45	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65/14/19 BS 2 CM 50 1.3 0 1 0	05/14/19	BS 2	СМ	54	1.9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OS14/19 BS2 CM S3 16 2 5 1 0 1 0 0 1 0 </td <td>05/14/19</td> <td>BS 2</td> <td>СМ</td> <td>50</td> <td>1.3</td> <td>0</td> <td>1</td> <td>0</td>	05/14/19	BS 2	СМ	50	1.3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Obs/14/19 BS2 CM 51 1.5 0 0 2 0	05/14/19	BS 2	СМ	53	1.6	2	5	1	0	1	0	0	0	1	0	0	0	0	0	0	0
05/14/19 BS 2 CM 50 1.2 0	05/14/19	BS 2	СМ	51	1.5	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 47 1.2 0 0 3 0	05/14/19	BS 2	СМ	50	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
O5/14/19 BS 2 CM 57 2.0 0 1 0	05/14/19	BS 2	СМ	47	1.2	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 47 1.2 0	05/14/19	BS 2	СМ	57	2.0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 50 1.3 0 1 0	05/14/19	BS 2	СМ	47	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 55 1.7 1 0 2 0 0 0 0 1 0	05/14/19	BS 2	СМ	50	1.3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 46 1.0 0 1 1 0	05/14/19	BS 2	СМ	55	1.7	1	0	2	0	0	0	0	0	1	0	0	0	0	0	0	0
05/14/19 BS 2 CM 50 1.5 0	05/14/19	BS 2	СМ	46	1.0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 45 1.0 0 1 0	05/14/19	BS 2	СМ	50	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 51 1.5 2 2 4 3 2 0	05/14/19	BS 2	СМ	45	1.0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/14/19 BS 2 CM 49 1.5 0	05/14/19	BS 2	СМ	51	1.5	2	2	4	3	2	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 54 1.6 1 0 1 0	05/14/19	BS 2	СМ	49	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 2 CM 63 2.9 0 0 3 0 0 0 0 1 0	05/14/19	BS 2	СМ	54	1.6	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 1 CM 58 2.5 1 1 0 0 0 0 0 0 3 1 0 0 0 0 0 05/14/19 BS 1 CM 65 3.1 0 2 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0	05/14/19	BS 2	СМ	63	2.9	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0
05/14/19 BS 1 CM 65 3.1 0 2 0 0 0 0 0 1 1 0 0 0 0 0 05/14/19 BS 1 CM 58 2.6 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0	05/14/19	BS 1	СМ	58	2.5	1	1	0	0	0	0	0	0	0	3	1	0	0	0	0	0
05/14/19 BS 1 CM 58 2.6 0 1 0 0 0 0 1 0 2 0 0 0 0 0 05/14/19 BS 1 CM 64 2.8 10 11 2 1 0 0 0 0 4 1 55 1 0 0 0 0 05/14/19 BS 1 CM 64 2.8 10 11 2 1 0 0 0 4 1 55 1 0 0 0 0 05/14/19 BS 1 CM 59 2.5 2 0 1 0	05/14/19	BS 1	СМ	65	3.1	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0
05/14/19 BS 1 CM 64 2.8 10 11 2 1 0 0 0 4 1 5 1 0 0 0 0 05/14/19 BS 1 CM 59 2.5 2 0 1 0	05/14/19	BS 1	СМ	58	2.6	0	1	1	0	0	0	0	0	1	0	2	0	0	0	0	0
05/14/19 BS 1 CM 59 2.5 2 0 1 0	05/14/19	BS 1	СМ	64	2.8	10	11	2	1	0	0	0	0	4	1	5	1	0	0	0	0
05/14/19 BS 1 CM 55 2.1 3 4 1 0 1 0 0 1 2 0 0 0 0 05/14/19 BS 1 CM 55 2.1 2 1 1 0 0 0 0 1 1 0	05/14/19	BS 1	СМ	59	2.5	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19 BS 1 CM 55 2.1 2 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0	05/14/19	BS 1	СМ	55	2.1	3	4	1	0	1	0	0	0	0	1	2	0	0	0	0	0
	05/14/19	BS 1	СМ	55	2.1	2	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0

DATE COLLECTED	SITE	FISH SPECIES	LENGTH (mm)	WEIGHT (g)	LEP Co	LEP C1	LEP C2	LEP PAM	LEP PAF	LEP AM	LEP AF	CAL Co	CAL C1	CAL C2	CAL C3	CAL C4	CAL PAM	CAL PAF	CAL AM	CAL AF
05/14/19	BS 1	СМ	60	2.6	0	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0
05/14/19	BS 1	СМ	57	2.5	3	3	4	0	0	1	0	0	0	1	1	0	0	0	0	0
05/14/19	BS 1	СМ	54	1.6	0	2	0	0	0	0	0	0	0	2	0	1	0	0	0	0
05/14/19	BS 1	СМ	69	3.4	0	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	BS 1	СМ	46	1.3	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	BS 1	CM	55	2.0	3	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
05/14/19	BS 1	СМ	56	2.0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	BS 1	CM	57	2.3	3	1	2	0	0	0	0	0	2	1	0	0	0	0	0	0
05/14/19	BS 1	СМ	64	2.6	6	5	0	0	2	1	1	0	0	0	2	0	1	0	0	0
05/14/19	BS 1	CM	64	2.8	3	0	1	0	0	0	0	0	2	2	1	2	1	0	0	0
05/14/19	BS 1	СМ	54	1.9	1	0	0	0	1	0	0	0	1	1	0	0	0	1	0	0
05/14/19	BS 1	СМ	62	2.6	1	2	0	0	0	0	0	1	0	1	0	0	0	0	0	0
05/14/19	BS 1	СМ	57	2.2	0	2	0	0	0	0	0	0	1	2	2	0	0	0	0	0
05/14/19	BS 1	СМ	55	1.7	0	3	0	0	0	0	0	0	1	3	3	0	0	0	0	0
05/14/19	BS 1	СМ	55	1.7	0	3	0	1	0	0	0	1	4	0	0	1	0	0	0	0
05/14/19	BS 1	СМ	65	2.3	0	2	1	0	0	0	0	1	0	0	0	0	0	0	0	0
05/14/19	BS 1	СМ	59	2.0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0
05/14/19	BS 1	СМ	59	2.0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0
05/14/19	BS 1	СМ	54	1.6	0	3	0	0	0	0	0	0	0	4	0	0	0	0	0	0
05/14/19	BS 1	СМ	61	2.6	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
05/14/19	BS 1	CM	65	2.9	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0
05/14/19	BS 1	СМ	55	1.8	0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/14/19	BS 1	СМ	60	2.7	0	0	1	1	0	1	0	1	1	1	1	0	0	0	0	0
05/14/19	BS 1	СМ	55	2.1	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0
05/30/19	SI 2	СМ	44	1.1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
05/30/19	SI 2	СМ	55	2.0	0	0	0	1	0	0	0	0	2	2	1	1	0	1	0	0
05/30/19	SI 2	СМ	68	3.7	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
05/30/19	SI 2	СМ	44	1.0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0
05/30/19	SI 2	СМ	53	1.6	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0
05/30/19	SI 2	СМ	54	1.7	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
05/30/19	HI 1	СМ	57	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/30/19	SI 1	СМ	65	3.0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
05/30/19	MC 1	CO	97	13.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05/31/19	FC 2	CO	88	10.0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0