Fish and Fisheries in Great Slave Lake, Northwest Territories, Canada, 2011 – 2016

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ABSTRACT

Zhu, X., Chapelsky, A.J., and Alsip, L.E. 2026. Fish and Fisheries in Great Slave Lake, Northwest Territories, Canada, 2011 – 2016. Can. Data Rept. Fish. Aquat. Sci. 1478: vii + 79 p.

Fisheries and Oceans Canada has conducted an annual ecosystem-centered, fishery-independent summer gillnetting study in the Main Basin (Fishery Management Areas [FMAs] IW, IE, II, III, IV, V) of Great Slave Lake since 2011. This report summarizes the fish and fisheries data from 2011-2016. A total of 42,318 individuals (13,026.94 kg round weight) representing 25 species were captured in 387 multi-mesh gillnet sets throughout the water column at 137 different sites. Mean catch per unit effort (CPUE) varied by depth stratum, with the highest index of relative abundance observed in benthic waters, followed by pelagic and middle waters, and also varied among FMAs and mesh sizes. The dominant species caught were Lake Whitefish (*Coregonus clupeaformis*), Least Cisco (*Coregonus sardinella*), and Lake Herring (*Coregonus artedi*). Biological data were collected for 12,110 individuals across 17 species and used to describe mesh-specific capture efficiency, size composition, length-weight relationships, and distributions of CPUE for 12 focal species. These data contribute to ongoing monitoring and assessment of ecosystem structure and biological productivity in Great Slave Lake.

RÉSUMÉ

Zhu, X., Chapelsky, A.J., and Alsip, L.E. 2026. Fish and Fisheries in Great Slave Lake, Northwest Territories, Canada, 2011 – 2016. Can. Data Rept. Fish. Aquat. Sci. 1478: vii + 79 p.

Depuis 2011, Pêches et Océans Canada mène chaque été une étude axée sur l’écosystème réalisée au filet maillant et indépendante de la pêche dans le bassin principal (zones de gestion des pêches [ZGP] IW, IE, II, III, IV, V) du Grand lac des Esclaves. Le présent rapport résume les données sur les poissons et les pêches de 2011 à 2016. Au total, 42 318 individus (13 026,94 kg de poids brut) appartenant à 25 espèces ont été capturés au moyen de 387 traits de filets maillants à panneaux multiples placés à différentes profondeurs dans la colonne d’eau, à 137 sites différents. Les captures par unité d’effort (CPUE) moyennes variaient selon la strate de profondeur; les eaux benthiques étaient associées à l’indice d’abondance relative le plus élevé, suivies des eaux pélagiques et des eaux du milieu de la colonne d’eau. Elles variaient également selon les ZGP et le maillage. Les principales espèces capturées étaient le grand corégone (*Coregonus clupeaformis*), le cisco sardinelle (*Coregonus sardinella*) et le cisco de lac (*Coregonus artedi*). Des données biologiques provenant de 12 110 individus appartenant à 17 espèces ont été recueillies et utilisées pour décrire l’efficacité de capture selon le maillage, la composition selon la taille, les relations longueur-poids et les distributions des CPUE pour 12 espèces cibles. Ces données contribuent à l’évaluation et au suivi continus de la structure de l’écosystème et de la productivité biologique dans le Grand lac des Esclaves.

INTRODUCTION

Great Slave Lake (GSL) has sustained the largest freshwater fishery in the Canadian Arctic. The principal target species is Lake Whitefish (*Coregonus clupeaformis*), along with other valuable commercial species, Lake Trout (*Salvelinus namaycush*) and Inconnu (*Stenodus leucichthys*) (Rawson 1951, Keleher 1972, Healey 1975). As one of the Arctic Great Lakes, the GSL fisheries ecosystem faces competing interests in the utilization and conservation of its natural resources, as well as concerns related to northern community-based socioeconomic development (Zhu *et al*. 2017, MacKenzie *et al*. 2022).

To address these stressors, interests, and concerns, Fisheries and Oceans Canada (DFO) has led an ecosystem-focused fisheries-independent gillnet study (FIGS) in the Main Basin (Fisheries Management Areas [FMAs] IW, IE, II, III, IV, V) of GSL since 2011, collaborating with Indigenous communities around the lake, the Government of Northwest Territories, and Environment and Climate Change Canada. In 2011-12, we successfully secured research funding through the Northwest Territories Cumulative Impact Monitoring Program (NWT-CIMP) for a feasibility study called “Monitoring and Assessing the Cumulative Impacts on the Important Fish Population Productivity and Community Diversity in Great Slave Lake”. The research objectives were to i) test the hypothesis that current fisheries exploitation effort does not impact important fish population productivity and community integrity, and ii) investigate whether environmental changes and other anthropogenic activities impact the population productivity of Lake Whitefish, Lake Trout, and Inconnu. Based on this feasibility study, we expanded the FIGS into a five-year NWT-CIMP project in 2012-2016, called “Understanding Adaptive Mechanisms of Fish Production and Community Diversity Corresponding to Environmental and Cumulative Impacts in Great Slave Lake Systems”. Under this expanded project, we incorporated multidisciplinary research interests, such as limnology, zooplankton, benthos, fish and fisheries, across GSL’s Main Basin. The main objectives of this multidisciplinary research project were to i) establish baseline information on the fishable population units and biological characteristics; ii) explore spatial and temporal dynamics of fish communities and their association with environmental gradients; and iii) develop a benchmark for disseminating the adaptive mechanisms of fishery production, fish communities, and the related aquatic environment in response to the cumulative impacts synergized with multiple anthropogenic activities.

Complementary to a published technical report addressing the fisheries ecosystem baseline study (Zhu *et al*. 2017), this data report summarizes and archives fish and fisheries datasets collected in 2011 – 2016. This report also complements other data reports on the zooplankton, benthic invertebrates, and limnology data, which are under development. These data reports provide fundamental support for upcoming research interests in GSL, including work on fisheries ecosystem ecology, habitat suitability modeling, and the development of an integrated fisheries management plan.

MATERIALS AND METHODS

Survey design

The FIGS survey design was based on 245 equal-sized sampling grids, each with an area of 86.49 km^2, across the Main Basin of GSL (Appendix A; Figure 1). The center of each grid was separated by 10 minutes of longitude (equivalent to 9.3 km) and 5 minutes of latitude (equivalent to 9.3 km), covering the Western Basin (FMAs IW and IE), Central Basin (FMAs II and III), and Northern Basin (FMAs IV and V). The Western Basin was sampled annually as a reference region for the FIGS to establish a time series of quantitative observations. Grids in the

remaining portion of the Main Basin (FMAs II, III, IV, and V) were sampled opportunistically, generally with ~ 25 grids in one or two FMAs outside the Western Basin to contrast spatial variations in limnology, biological productivity, and fisheries. A sampling event was considered to be one grid per year, following a depth-stratified random sampling protocol (Zhu *et al*. 2024).

Gillnet setting

A standard set of fishery-independent experimental gillnets consisted of ten monofilament panels of different mesh sizes (Figure 2). The mesh sizes ranged from 13 mm to 140 mm knot-to-knot stretched, following a geometric factor of 1.3053 (13, 19, 25, 32, 38, 51, 64, 89, 114, 140; Zhu *et al*. 2024). When assembling these experimental gillnets, the mesh sizes were randomly ordered, and a 2 m space was set between panels to buffer between mesh sizes. Panel lengths were 10.94 m for mesh sizes 38 mm or smaller, and 21.87 m for mesh sizes 51 mm or larger. Panel height varied with the water stratum in which the net was to be set. Benthic (bottom) sets were 1.83 m tall (total net area of 300 m^2), while pelagic (floating) sets were 3.66 m tall (600 m^2). In addition to the ten standard panels, one or two additional commercial-sized panels with mesh sizes of 152 or 165 mm were used to target larger Lake Trout to increase their representative sample size. To mimic fishery-dependent catchability, commercial ('coney') nets were constructed with mesh sizes of 127 or 133 mm, measuring 183 m long and 9.1 m deep. All catch and biological data from coney nets will be summarized in a separate report.

In the Main Basin of GSL, five depth strata, ≤ 10.0, 10.1 – 20.0, 20.1 – 40.0, 40.1 – 60.0, and > 60.1 m, were used to evaluate the vertical distribution of fish species. At each depth stratum, one or multiple types of gillnets, pelagic, benthic, and coney nets, were deployed (Figure 3). Each net type at the same depth was separated by 2 m of braided polypropylene sideline. At each grid, the selection of gillnet types and numbers was based on the following setting rules:

1. Grid depth ≤ 10.0 m: benthic and coney nets;
2. Grid depth between 10.1 – 20.0 m: surface water pelagic (5 m below the surface) and coney nets;
3. Grid depth between 20.1 – 40.0 m: surface water pelagic (5 m below the surface), benthic, and coney nets;
4. Grid depth between 40.1 – 60.0 m: surface water pelagic (5 m below the surface), mid-water pelagic (20 m below the surface), and benthic nets;
5. Grid depth ≥ 60.1 m: surface water pelagic (5 m below the surface), mid-water pelagic (30 m below the surface), and benthic nets.

A floating flagpole and an anchor were attached to both ends of the gang. For pelagic nets, buoys were tied between panels with lines cut to the appropriate set depth (5, 20, and 30 m). Effective gillnet settings were ensured i) by keeping the nets in the water for 24 ± 6 hours (18 – 30 hours), ii) without being tangled or damaged, drifting or horseshoeing, and iii) by keeping the pelagic nets from sinking.

Sample collection and processing

At each visited grid, all fish were collected and stored in pre-marked woven polypropylene bags (sandbags) with ice. The labelled bags identified the type of gillnet (pelagic, mid-water, benthic, or coney) and individual panel mesh size. All bags from a set at a grid were stored in one or two fish tubs to avoid mixing with those from other grids.

On land, all fish were identified, enumerated as individuals and weighed in grams by grid, gillnet type, mesh size, and species. Published resources (e.g. Scott and Crossman 1998, Stewart and Watkinson 2004, Muir *et al*. 2011) were used to determine fish species. We followed a sampling protocol (Zhu *et al*. 2024) to collect information on body length, weight, sex, maturity, gonad weight, and stomach contents of each sampled fish. Additional biological samples were also

collected for specific research interests. Multiple ageing structures, such as scales, pectoral fin rays, and otoliths, were used for an aging comparison study (Zhu *et al*. 2015, 2016). Muscle samples and stomachs were also taken for stable isotope analysis to track fish feeding habits. To support these studies, aging structures were dried and stored in paper envelopes, and muscle samples and stomachs were individually bagged and frozen at -20°C. All biological samples were archived at DFO's Freshwater Institute in Winnipeg, MB, for future analysis.

Data integration and interpretation

Catch rates were described by using individuals or weight per experimental gillnet set.

Catch per unit effort (CPUE) was calculated as total catch of numbers per unit effort (NPUE) and biomass (round weight, g) per unit effort (BPUE). The fishing effort was defined as the area of a panel or gillnet (m^2) per 24 hours of soak time. NPUE was scaled to individuals/1,000 m^2 to ensure that low catches were represented, while BPUE was kept at g/m^2 for compatibility with modelling software. Bulk counts and weights from effective fishery-independent sets were used to calculate CPUE in the Western (Appendix B), Central (Appendix C), and Northern (Appendix D) Basins.

Catch composition was expressed as the proportion of each species relative to the overall catch by number of individuals and by round weights. These annual harvest data were integrated from commercial fisheries in GSL from 1945 to 1987 (Yaremchuk *et al*. 1989). Between 1988 and 2002, the annual commercial harvest data from GSL have been integrated from the DFO data reports (Low and Read 1993, Read and Taptuna 1995, 1997, 2001, and 2003). Since 2003, the annual harvest data have been shared with the Freshwater Fish Marketing Corporation.

Calculations and visualizations were conducted in R (v4.4.3, R Core Team 2025). Box plots and histograms of fork length and round weight were used to examine size distribution by mesh size, setting stratum, and FMA. Scatterplots with LOESS regressions were used to smooth the species-specific relationships between fork (or total) length and round weight (Jacoby 2000).

RESULTS

Summary of gillnet setting

During the summers (from days of the year 178 to 230, late June to early August) of 2011 – 2016, effective settings varied by grid, setting stratum, year, and FMA (Table 1, Figure 4). In 2011, the pilot survey was conducted at 16 grids. Since 2012, the number of annual sampling grids visited ranged from 36 in 2013 to 53 in 2016. A total of 236 sampling grid visits occurred at 137 grids during 2011 – 2016 (Table 2). A total of 387 effective multi-mesh gillnets were set across the Main Basin, including 168 (43% of sets) surface water pelagic nets, 31 (8%) mid-water pelagic nets, and 188 (49%) bottom nets (Table 2). Of the nets set in the Western Basin, 85 (46%) were surface water pelagic nets, five were mid-water pelagic nets, and 95 (51%) were bottom nets. The number of surface pelagic, mid-water pelagic, and bottom net sets in the Central Basin were 46 (40%), 16 (14%), and 53 (46%), as well as 37 (43%), 10 (11%), and 40 (46%) in the Northern Basin, respectively (Zhu *et al*. 2024). Among 168 pelagic sets, 73 sets were deployed in FMA IE, followed by 21, 25, and 26 sets in FMAs II, III, and IV, respectively (Figure 5a). The lowest number of pelagic sets, 10, was in 2011, and gradually increased to 39 sets in 2014. There were 31 mid-water pelagic sets, including 13, 9, and 5 sets in FMAs II, IV, and IE, respectively (Figure 5b). There were no mid-water pelagic sets in FMA IW. A total of 188 benthic sets were deployed at the lake bottom, including the lowest of seven sets in FMA V and

the greatest of 38 sets in FMA IE (Figure 5c). During this study period, the annual bottom set number varied from 12 in 2011 to 48 in 2014 (Figure 5d).

Species composition

There were 25 fish species identified, belonging to 8 orders, 12 families, and 19 genera in the Main Basin of GSL, 2011 – 2016 (Table 3). Nine species, Longnose Sucker (*Catostomus catostomus)*, Lake Herring (*Coregonus artedi*), Lake Whitefish, Least Cisco (*Coregonus sardinella*), Northern Pike (*Esox lucius*), Burbot (*Lota lota*), Troutperch (*Percopsis omiscomaycus*), Lake Trout, and Inconnu, were found in all FMAs of the Main Basin. Six species, Slimy Sculpin (*Cottus cognatus*), Arctic Lamprey (*Lethenteron camtschaticum*), Arctic Sculpin (*Myoxocephalus scorpioides*), Common Dace (*Leuciscus leuciscus*), Lake Chub (*Couesius plumbeus*), and Arctic Grayling (*Thymallus arcticus*) were found in only one FMA each. In terms of relative importance to ecology and socioeconomics, all fish species were categorized as a) commercially important (3 species), b) bycatch (10 species), and c) forage or parasitic species (12 species) in Figure 6, where the images of 14 fish species were taken during this survey, and the remaining 11 fish images were downloaded from websites (Table 4) when the quality of some fish images taken in the FIGS was not good enough.

Fish species richness reflected an ecological adaptation to the physical limnology and biogeography of the deepest lake in North America (Rawson 1950). Among the taxonomic orders, the species richness was dominated by Salmoniformes (8 species), followed by Cypriniformes (6 species), and Perciformes (6 species). The other five species belonged to five different orders (Figure 7a). Among the taxonomic families, Salmonidae is the largest family represented with 8 species, followed by five families, Catostomidae, Cyprinidae, Leuciscidae, Percidae, and Psychrolutidae, which have two species each. Seven families, Cottidae, Esocidae, Gasterosteidae, Hiodontidae, Lotidae, Percopsidae, and Petromyzontidae, had one species each (Figure 7b).

Total catch

Total catch by individuals varied by setting stratum, FMA, and year (Table 5, Figure 8). In the pelagic waters, the total catch of 21,929 individuals was equivalent to 52% of the total catch in the Main Basin. As many as 12,033 individuals (55% of the Main Basin total catch) were caught in FMA IE, followed by 4,840 individuals (22%) in FMA III. Individuals caught in FMAs IW, II, IV and V accounted for < 10% of the total catch in the Main Basin. Between 2011 and 2016, the annual total number of individuals caught in the pelagic waters changed from 2,045 in 2015 to 6,240 in 2012, resulting in an average of 3,655 ± 1,505 individuals (Figure 8a). In the mid-water stratum, the total catch of 2,422 individuals was equivalent to 6% of the total catch from the Main Basin. The total number of individuals caught was 1,405 (58%) and 671 (28%) in FMAs II and III, respectively. The annual total catch by numbers in the mid-waters ranged from 61 in 2014 to 1,405 in 2013, accounting for a mean of 484 ± 261 individuals per year (Figure 8b). In the bottom environment, the number of total individuals caught was 3,535 (20%) and 7,674 (43%) in FMAs IW and IE, respectively. Annual catch numbers in bottom waters ranged from 2,306 individuals in 2013 to 3,691 individuals in 2012, resulting in an average of 2,995 ± 589 individuals (Figure 8c). Combining across the three setting strata, the total catch number of 42,318 individuals was largely contributed by 19,941 individuals (47%) in FMA IE and 8,462 individuals (20%) in FMA III. The catch numbers from FMAs IW, II, IV, and V were under 4,500 individuals (≤ 10%). Annual catch number throughout the Main Basin changed from 4,693 individuals in 2015 to 9,997 individuals in 2012, resulting in an average of 7,053 ± 2,048 individuals (Figure 8d).

Total catch by weights varied by setting stratum, FMA and year (Table 6, Figure 9). In the pelagic environment, the total catch weight of 5,038.62 kg was dominated by fish in FMAs IW

(2,383.97 kg, 47% of total catch weight) and III (1,211.33 kg, 24%) (Figure 9a). Between 2011 and 2016, the lowest and highest pelagic catch weights, 441.55 and 1,368.72 kg, were found in 2011 and 2012, respectively. The average pelagic total catch weight was 839.77 ± 358.29 kg, equivalent to 39% of the catch weight in the entire Main Basin. In the mid-water environment, the total catch weight was 406.11 kg, equivalent to 3% of the grand weight in the Main Basin. The greatest catch weight in the mid-water stratum, 209.46 kg, occurred in FMA II in 2013 (Figure 9b). From 2012 to 2016, total mid-water catch weight changed from 28.70 kg in 2012 to 209.46 kg in 2013, with an average of 81.22 ± 76.93 kg. In the bottom environment, the total catch accounted for 7,582.22 kg, equivalent to 58% of the grand catch weight in the Main Basin. Among FMAs, the benthic total catch weight varied from 170.72 to 2,918.85 kg in FMAs V and IE, respectively. The lowest and highest benthic catch weights accounted for 655.29 and 1,963.91 kg in 2011 and 2014, respectively, with an average of 1,263.70 ± 499.72 kg (Figure 9c). Combined over the three setting strata, a total catch of 13,026.94 kg was largely contributed to by fish in FMAs IE (5,367.56 kg, 41%) and III (2,539.11 kg, 19%). The annual total catch weight across the water column ranged from 1,096.85 kg in 2011 to 2,936.91 kg in 2012, with an average of 2,171.16 ± 796.17 kg (Figure 9d).

Catch rate

The catch rates as individuals were summarized in Table 7, resulting in 131, 78, 96, and 109 individuals/set in the pelagic, middle, bottom, and entire waters of the Main Basin of GSL, respectively. The highest catch rate appeared in the surface (194 individuals/set) and middle waters (224 individuals/set) of FMA III (Figure 10). The lowest catch rates were in the middle water of FMAs IV (11 individuals/set) and V (10 individuals/set). In the bottom environment, a high catch rate of individuals was observed in the Western Basin (FMA IW: 131 individuals/set, FMA IE: 113 individuals/set), and the lowest in FMA IV (58 individuals/set). Combined with total catch throughout the setting strata, catch rates in the shallow southern part (102, 137, and 141 individuals/set in FMAs IW, IE, and III, respectively) of GSL were notably greater than that in the deep northern part (81, 57, 83 individuals/set in FMAs II, IV, and V, respectively).

Catch rates by weight were summarized in Table 8, showing averages of 29.99, 13.10, 40.33, and 33.66 kg/set in the pelagic, middle, bottom, and entire waters of the Main Basin of GSL, respectively. The lowest and highest catch rates were observed in the middle (13.10 kg/set) and the bottom waters (40.33 kg/set). In the pelagic environment, the lowest and highest catch rates were found in FMAs IW (16.64 kg/set) and III (48.45 kg/set), respectively (Figure 11). In the middle waters, the catch rate was the lowest in FMA IV (7.58 kg/set), compared with highs in FMAs III (17.44 kg/set) and II (16.11 kg/set). In the bottom waters, the Western Basin showed higher catch rates, 54.13 and 42.92 kg/set in FMAs IW and IE, compared with those in the Northern Basin, 31.77 and 24.39 kg/set in FMAs IV and V, respectively. Incorporating across all setting strata, the catch rates were greatly impacted by the fish populations in the bottom waters, showing higher catch rates (42.59, 36.76, and 42.32 kg/set) in the shallow southern part (FMAs IW, IE, and III) of the lake and lower catch rates (24.92 and 28.17 kg/set) in the Northern Basin. Between 2011 and 2016, the catch rates fluctuated from a low (24.28 kg/set) level in 2015 to a high (52.44 kg/set) level in 2012.

CPUE summary

Both NPUE and BPUE were greatly affected by FMAs and setting strata (Table 9, Figure 12a & c). In the surface waters, the average NPUE varied between 73.46 ± 18.78 individuals/1,000 m^2 (mean ± SE) in FMA IW and 413.72 ± 60.29 individuals/1,000 m^2 in FMA III, with an average of 287.66 ± 25.63 individuals/1,000 m^2 across the Main Basin. The average BPUE ranged between 22.02 ± 13.25 g/m^2 in FMA IW and 66.60 ± 20.25 g/m^2 in FMA III, with an average of 42.20 ± 6.00 g/m^2 across the Main Basin. In the mid-water environment, the average NPUE

varied between 19.01 ± 3.63 individuals/1,000 m^2 in FMA IV and 534.40 ± 326.94 individuals/1,000 m^2 in FMA III, leading to an average of 172.62 ± 39.55 individuals/1,000 m^2 across the Main Basin. The average mid-water BPUE ranged between 9.87 ± 10.03 g/m^2 in FMA IV and 29.24 ± 31.68 g/m^2 in FMA III, with a Main Basin average of 19.43 ± 6.14 g/m^2. In the bottom environment, the mean NPUEs and BPUEs in the shallow waters of FMAs IW, IE and III were much greater than those in the deep waters of FMAs II, IV, and V. The benthic NPUE and BPUE across the Main Basin were 317.29 ± 15.27 individuals/1,000 m^2 and 72.41 ± 1.98 g/m^2, which were 10% and 72% greater than those in the surface waters, respectively.

In addition to the spatial differences, CPUEs were considerably affected by the mesh sizes of the multi-mesh experimental gillnets (Table 10, Figure 12b and d). NPUEs increased over mesh sizes 13 to 25 mm, then gradually decreased with mesh sizes 32 mm and greater. Among the ten mesh sizes, the lowest and greatest NPUEs were found in mesh sizes 140 mm (16.22 ± 1.98 individuals/1,000 m^2) and 25 mm (1,342.56 ± 208.44 individuals/1,000 m^2) in a pelagic gillnet, in mesh size 13 mm (3.23 ± 1.92 individuals/1,000 m^2) and 25 mm (726.61 ± 243.60 individuals/1,000 m^2) in a mid-water pelagic gillnet, and in mesh sizes of 140 mm (58.21 ± 6.55 individuals/1,000 m^2) and 25 mm (663.89 ± 115.77 individuals/1,000 m^2) in a benthic net, respectively. There were no significant differences in NPUE for mesh sizes 51, 64, 89, and 114 mm. Among mesh sizes 25 mm or less, more than 57% of NPUE were dominated by Ciscoes, which was a mixture of Least Cisco, Lake Herring, and Shortjaw Cisco. The mesh-specific BPUE with pelagic nets demonstrated a bimodal pattern, with the 1st peak BPUE (40.07 ± 5.24 g/m^2) in the 25 mm panel and the 2nd peak (95.20 ± 9.29 g/m^2) in the 89 mm panel. A single BPUE peak with benthic gillnets was observed, indicating that the lowest and greatest BPUEs occurred at 13 mm (4.57 ± 1.23 g/m^2) and 89 mm (218.11 ± 12.44 g/m^2), respectively. Almost half (48%) of total BPUE was captured in the benthic mesh sizes of 89 and 114 mm, dominated by Lake Whitefish and Longnose Sucker (33%). The increase in mesh-specific BPUE was directly reflected in the rising capture efficiency of species enmeshed. Combined with those mesh-specific NPUEs and BPUEs, we can identify an explicit pattern of mesh-specific capture efficiency for GSL fisheries species. The smaller mesh sizes (≤ 25 mm) seemed much more efficient for small-sized Ciscoes, whereas the larger mesh sizes (≥ 64 mm) of benthic gillnets were highly efficient for Lake Whitefish, Longnose Sucker, and Burbot.

Development of commercial fisheries

Throughout the development of GSL commercial fisheries, annual landings of eight exploited fish species showed evident changes in their population productivity under variable fishing effort (Table 11, Figure 13). Lake Whitefish and Lake Trout were target commercial fisheries species before the 1960s (Keleher 1972, Healey 1975). Lake Whitefish fisheries production has gradually reduced from the peak catch of 2,605 t in 1950 to 166 t in 2014, with an average of 1,164 ± 556 t. Lake Trout reached a peak harvest of 1,345 t in 1952 and dropped to a historically low catch of 10 t in 2007, leading to an average of 321 ± 418 t. Inconnu is an important species, and its fisheries production ranged from 10 t in 2010 to 227 t in 1977, with an average of 73 ± 46 t. Among the three exploited species, Lake Trout showed the greatest variation in landings (CV% = SD/mean X 100 = 131%), compared to 63% and 48% for Inconnu and Lake Whitefish. Despite noticeable fluctuations in the annual commercial harvest, Lake Whitefish, Lake Trout, and Inconnu have consistently been considered important commercial species, comprising (73 ± 11) %, (16 ± 14)%, and (5 ± 3)%, respectively (Figure 14). In addition, three bycatch fish species, Burbot, Northern Pike, and Walleye combined, have contributed an average of 147 ± 103 t (6%). Goldeye and Longnose Sucker are also bycatch species, and their average annual contribution to GSL commercial fisheries is rather small (Goldeye: 0.37 ± 0.39 t [106%]; Longnose Sucker: 6.53 ± 5.14 t [79%]).

To ensure the sustainable utilization of GSL commercial fisheries, the DFO resource management team has been primarily responsible for the implementation of the integrated management regimes, including the designation of FMAs, the timely renewal of FMA-specific fishing quotas, and adjusting minimum legal mesh sizes of gillnet fisheries since 1971 (Bond and Turnbull 1973, Roberge *et al*. 1982). Between 1945 and 1979, the size, boundaries, and nomenclature of the GSL FMAs underwent frequent changes (Bond 1975a, Moshenko and Low 1978a,b). Since 1980, all FMAs have remained consistent. The GSL commercial fishing quota, or total allowable harvest, has been applied to the period from November 1 to the following October 31 (Read and Taptuna 1995). The first single lake-wide fishing quota of 1,088.6 t for all fish species was established in 1948 (Kennedy 1951). As the completion of a four-year fisheries production survey and an all-weather highway, the single fishing quota was adjusted to a maximum quantity of 4,082.90 t for Lake Whitefish and Lake Trout combined in 1949 (Keleher 1962, Bond and Turnbull 1973). The unprecedented decline of commercial harvest for Lake Trout in the Main Basin in 1971 led to the allocation of an annual sub-quota of 45.4 t for Lake Trout in the East Arm (FMA VI), which would halt all commercial fishing in that FMA when met (Bond and Turnbull 1973). Since then, FMA-specific fishing quotas have gradually decreased to a range of 1,542.45 – 1,727.40 t until 2005 (Roberge *et al*. 1982, Moshenko and Gillman 1983). Since 2006, total fishing quotas have been stabilized at 1,681.90 t.

As a part of an integrated management regime, DFO outlined a minimum legal mesh size of commercial gillnets to reduce the proportion of immature Lake Whitefish in commercial fisheries. The legal minimum mesh size was 140 mm knot-to-knot stretched until the regulation changed in 1977, when the minimum mesh size was allowed to be 133 mm, as suggested by experimental gillnetting studies (Bond 1975a,b; Moshenko and Low 1978a,b). The reduction in the minimum legal mesh size of commercial gillnets has raised some concerns about the exploitation of younger and smaller body-size groups of Lake Whitefish, which constituted a greater percentage of the biomass than did those groups vulnerable to a 140 mm mesh. Day (2002) suggested that reducing the legal mesh size on GSL commercial fisheries from 133 to 127 mm will improve fishing efficiency by 46% for total round weight CPUE and 30% for total value CPUE. In November 1997, the minimal legal mesh size of commercial gillnets in FMAs IE, II, III, and IV was further reduced to 127 mm, while that of gillnets in FMAs IE and V decreased from 133 mm to 127 mm in May 2000 and November 2000, respectively (Read and Taptuna 2003). Meanwhile, some commercial fishers still favoured using large mesh-sized (140 mm) gillnets to improve the quality of large Lake Whitefish.

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REFERENCES

Bond, W.A. 1975a. Commercial fishery data from Great Slave Lake, NWT, 1974. Can. Fish. Mar. Ser. Data Rept. Ser. CNE/D-75-5: vi + 24 p.

Bond, W.A. 1975b. Results of an experimental gill netting program at the west end of Great Slave Lake, N.W.T. during summer, 1974. Can. Fish. Mar. Ser. Data Rept. Ser. Tech. Rept. Ser. CEN/D 75-7: viii + 83 p.

Bond, W.A., and Turnbull, T.D. 1973. Fishery investigations at Great Slave Lake, Northwest Territories 1972. Dept. Env. Fish. Mar. Ser. Tech. Rept. Ser. CEN/T-73-7: 78 p.

Day, A.C., 2002. Predicted impact of reducing gillnet mesh size on the efficiency of Great Slave Lake commercial Lake Whitefish, *Coregonus clupeaformis* (Mitchill) fishery, Northwest Territories. Can. Tech. Rept. Fish. Aquat. Sci. 2440: vii + 45 p.

Healey, M.C. 1975. Dynamics of exploited whitefish populations and their management with special reference to the Northwest territories. J. Fish Res. Bd. Can. 32: 427-448.

Jacoby, W.G., 2000. LOESS: A nonparametric, graphical tool for depicting relationships between variables. Elect. Stud. 19: 577-613.

Keleher, J.J. 1962. A documented review of Great Slave Lake commercial catch regulations. Manuscr. Rept. Biol. Stat. Ser. 715. 148 p.

Keleher, J.J. 1972. Great Slave Lake: effects of exploitation on the salmonid community. J. Fish. Res. Bd. Can. 29: 741-753.

Kennedy, W.A. 1951. The relationship of fishing effort by gill nets to the interval between lifts. J. Fish. Res. Bd. Can. 8(4): 264-274.

Low, G. and C.J. Read. 1993. Data from the commercial fishery for Lake Whitefish, C*oregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1988, 1989 and 1990. Can. Data Rept. Fish. Aquat. Sci. 898: v + 54 p.

MacKenzie, C.J.A., Fortin, B.L., and Stevens C.E. 2022. Summary of ecological information relevant to Great Slave Lake fisheries. Can. Manuscr. Rept. Fish. Aquat. Sci. 3214: vii + 63 p

Moshenko, R.W., and Gillman, D.V. 1983. Creel census and biological data from the Lake Trout sport fishery on Great Bear and Great Slave Lakes, Northwest Territories, 1977-78. Can. Data Rept. Fish. Aquat. Sci. 389: vi + 73 p.

Moshenko, R.W., and Low, G. 1978a. An experimental gillnetting program on Great Slave Lake, Northwest Territories, 1977. Can. Fish. Mar. Ser. Data Rept. 102: vi + 51 p.

Moshenko, R.W., and Low, G. 1978b. Lake Whitefish, *Coregonus clupeaformis* (Mitchill), from the commercial fishery of Great Slave Lake, Northwest Territories, 1975-76. Fish. Mar. Ser. Data Rept. 53: iv + 16 p.

Muir, A.M., Vecsei, P., and Reist, J.D. 2011. A field guide to the taxonomy of ciscoes in Great Slave Lake, Northwest Territories, Canada. Great Lakes Fish. Comm. Misc. Publ. 2011-02.

R Core Team 2025. R: A Language and Environment for Statistical Computing. R Foundation for Statistical Computing, Vienna, Austria. https://www.R-project.org/.

Rawson, D.S. 1951. Studies of the fish of Great Slave Lake. J. Fish. Res. Bd. Can. 8: 207-240.

Read, C.J., and Taptuna, W.E.F. 1995. Data from the commercial fishery for Lake Whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1990/91 to 1992/93. Can. Data Rept. Fish. Aquat. Sci. 957: v + 46 p.

Read, C.J. and W.E.F. Taptuna. 1997. Data from the commercial fishery for Lake Whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1993/94 to 1995/96. Can. Data Rept. Fish. Aquat. Sci. 1019: v + 32 p.

Read, C.J. and W.E.F. Taptuna. 2001. Data from the commercial fishery for Lake Whitefish *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1996/97 to 1998/99. Can. Data Rept. Fish. Aquat. Sci. 1081: v + 45 p.

Read, C.J., and Taptuna, W.E.F. 2003. Data from the commercial fishery for Lake Whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1999/00 to 2001/02. Can. Data Rept. Fish. Aquat. Sci. 1111: v + 54 p.

Roberge, M.M., Low, G., and Read, C.J. 1982. Data from the commercial fishery for Lake Whitefish, *Coregonus clupeaformis* (Mitchill), on Great Slave Lake, Northwest Territories, 1981. Can. Data Rept. Fish. Aquat. Sci. 335: iv + 21 p.

Scott W.B., and Crossman E.J. 1998. Freshwater fishes of Canada. Galt House Publication Ltd., Oakville, Ontario. 966p.

Stewart, K.W., and Watkinson, D.A. 2004. The Freshwater Fishes of Manitoba. University of Manitoba Press, Manitoba, xvii + 276.

Yaremchuk, G.C.B., Roberge, M.M., McGowan, D.K., Carder, G.W., Wong, B., and Read, C.J. 1989. Commercial harvests of major fish species from the Northwest Territories, 1945 to 1987. Can. Data Rept. Fish. Aquat. Sci. 751: iv + 129 p.

Zhu, X., Chapelsky, A., Carmichael, T.J., Leonard, D.L., Lea, E., Tallman, R.F., Evans, M., Podemski, C., and Low, G. 2017. Establishment of ecological baseline metrics for integrated ecomonitoring and assessment of cumulative impacts on Great Slave Lake fisheries ecosystem. Can. Tech. Rept. Fish. Aquat. Sci. 3223: ix + 58 p.

Zhu, X., Leonard, D., Howland, K.J., VanGerwen-Toyne, M., Gallagher, C., Carmichael, T.J., and Tallman, R.F. 2024. Fishery-independent gillnet study (FIGS) sampling protocol used for multi-species ecology study in Great Slave Lake, Northwest Territories, Canada. CSAS Res. Doc. 2024/014: iv + 27 p.

Zhu, X., Tallman, R.F., Howland, K.L., and Carmichael, T.J. 2016. Modeling spatiotemporal variabilities of length-at-age growth characteristics for slow-growing subarctic populations of Lake Whitefish, using hierarchical Bayesian statistics. J. Great Lakes Res. 42(2): 308-318.

Zhu, X., Wastle, R.J., Howland, K.L., Leonard, D.J., Mann, S., Carmichael, T.J., and Tallman, R.F. 2015. A comparison of three anatomical structures for estimating age in a slow-growing subarctic population of Lake Whitefish. N. Am. J. Fish. Manag. 35: 262-270.

TABLES

***Table 1**. Fishery-independent gillnet study (FIGS) sampling grids (+) visited during 2011 – 2016.*

Grid	2011	2012	2013	2014	2015	2016	Sum
4		+					1
5	+						1
6		+		+		+	3
7		+				+	2
8			+		+	+	3
9			+		+	+	3
10	+						1
11	+	+		+	+	+	5
13		+	+		+	+	4
14	+		+	+	+	+	5
15	+	+	+	+	+	+	6
16	+						1
17	+	+	+	+	+	+	6
18			+				1
19	+						1
20	+				+	+	3
21	+						1
22	+	+	+	+	+	+	6
23				+	+	+	3
24					+	+	2
26	+		+	+	+	+	5
27	+						1
28		+	+	+	+	+	5
29	+						1
30			+				1
32			+				1
33					+		1
34					+		1
35					+	+	2
36					+	+	2
37	+	+	+	+	+	+	6
38	+						1
39		+	+	+	+	+	5
40			+				1
41			+				1
43			+				1
45			+				1
46					+	+	2
47				+	+	+	3
48		+		+	+	+	4
49		+	+	+	+	+	5
50		+	+	+	+	+	5
54			+				1
56			+				1

Grid	2011	2012	2013	2014	2015	2016	Sum
58			+				1
60			+				1
61					+	+	2
62		+		+	+	+	4
63			+	+	+	+	4
64			+	+	+	+	4
67				+			1
71			+				1
73			+				1
76		+		+	+	+	4
77				+	+	+	3
80				+			1
83				+			1
84			+				1
85			+				1
87			+				1
91						+	1
93						+	1
94						+	1
98				+			1
100				+			1
102			+				1
104			+				1
107						+	1
108		+					1
109		+				+	2
112				+			1
114				+			1
116				+			1
119			+				1
125		+				+	2
126		+				+	2
130				+			1
132				+			1
134				+			1
137			+				1
140						+	1
141		+				+	2
142		+				+	2
143		+					1
144		+				+	2
147				+			1
149				+			1
151				+			1

Cont. Table 1.

Grid	2011	2012	2013	2014	2015	2016	Sum
153			+				1
155						+	1
157		+				+	2
158						+	1
159		+					1
160				+			1
161				+			1
165				+			1
167				+			1
171		+					1
172		+				+	2
174						+	1
175		+					1
176				+			1
179				+			1
181				+			1
182				+			1
185		+					1
186		+				+	2
188		+					1
189		+				+	2
190		+					1
194				+			1
197				+			1

Grid	2011	2012	2013	2014	2015	2016	Sum
198		+					1
200		+				+	2
202		+				+	2
203		+					1
204				+			1
206				+			1
207				+			1
208				+		+	2
210						+	1
211						+	1
216					+		1
217					+		1
218					+		1
220					+		1
222					+		1
227					+		1
229					+		1
231					+		1
233					+		1
234					+		1
236					+		1
241					+		1
1760				+			1
Sum	16	38	36	50	43	53	236

Table 2. *Number of FIGS ten-panel multi-mesh gillnet sets by year (2011 – 2016) and Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake. The experimental gillnets were set at the surface (a), middle (b) and bottom (c) strata of the water column (d).*

(a) Surface

Year	IW	IE	II	III	IV	V	MB
2011	2	8					10
2012	1	6	1	14			22
2013	3	7	18				28
2014	2	13			24		39
2015	2	19				11	32
2016	2	20	2	11	2		37
Sum	12	73	21	25	26	11	168

(b) Middle

Year	IW	IE	II	III	IV	V	MB
2011							0
2012				1	1		2
2013			13				13
2014					6		6
2015		3				1	4
2016		2		2	2		6
Sum	0	5	13	3	9	1	31

(c) Bottom

Year	IW	IE	II	III	IV	V	MB
2011	6	6					12
2012	5	7	1	18	1		32
2013	2	5	18				25
2014	4	15			29		48
2015	4	18				7	29
2016	6	17	2	14	3		42
Sum	27	68	21	32	33	7	188

(d) All

Year	IW	IE	II	III	IV	V	MB
2011	8	14					22
2012	6	13	2	33	2		56
2013	5	12	49				66
2014	6	28			59		93
2015	6	40				19	65
2016	8	39	4	27	7		85
Sum	39	146	55	60	68	19	387

***Table 3**. Fish species found during the FIGS in 2011 – 2016 by Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake. "+" indicates the species caught at least once during the survey period. Role indicates the species as commercially important (C), bycatch (B), forage (F), prey or parasitic (P) fish in the adult life stage.*

Order	Family	Scientific name	Common name	Species code	Role	IW	IE	II	III	IV	V	MB
Cypriniformes	Catostomidae	*Catostomus catostomus*	Longnose Sucker	LNSK	B	+	+	+	+	+	+	+
Cypriniformes	Catostomidae	*Catostomus commersonii*	White Sucker	WSK	B	+	+					+
Cypriniformes	Cyprinidae	*Couesius plumbeus*	Lake Chub	CHUB	F				+			+
Cypriniformes	Leuciscidae	*Leuciscus leuciscus*	Common Dace	KDS	F						+	+
Cypriniformes	Leuciscidae	*Margariscus nachtriebi*	Northern Pearl Dace	NPD	F	+	+	+				+
Cypriniformes	Leuciscidae	*Notropis hudsonius*	Spottail Shiner	SPT	F	+	+		+	+	+	+
Esociformes	Esocidae	*Esox lucius*	Northern Pike	NPK	B	+	+	+	+	+	+	+
Gadiformes	Lotidae	*Lota lota*	Burbot	BBT	B	+	+	+	+	+	+	+
Hiodontiformes	Hiodontidae	*Hiodon alosoides*	Goldeye	GDI	B	+	+		+	+	+	+
Perciformes	Cottidae	*Cottus cognatus*	Slimy Sculpin	SLSP	F					+		+
Perciformes	Cottidae	*Cottus ricei*	Spoonhead Sculpin	SHSP	F			+	+	+		+
Perciformes	Cottidae	*Myoxocephalus scorpioides*	Arctic Sculpin	ASP	F						+	+
Perciformes	Gasterosteidae	*Pungitius pungitius*	Ninespine Stickleback	NSSBK	F	+	+	+				+
Perciformes	Percidae	*Sander canadensis*	Sauger	SAUGE	B		+	+				+
Perciformes	Percidae	*Sander vitreus*	Walleye	WY	B	+	+		+	+	+	+
Percopsiformes	Percopsidae	*Percopsis omiscomaycus*	Troutperch	TP	F	+	+	+	+	+	+	+
Petromyzontiformes	Petromyzontidae	*Lethenteron camtschaticum*	Arctic Lamprey	ALP	P						+	+
Salmoniformes	Salmonidae	*Coregonus artedi*	Cisco/Lake Herring	LKH	B	+	+	+	+	+	+	+
Salmoniformes	Salmonidae	*Coregonus clupeaformis*	Lake Whitefish	LKWF	C	+	+	+	+	+	+	+
Salmoniformes	Salmonidae	*Coregonus sardinella*	Least Cisco	LCK	F	+	+	+	+	+	+	+
Salmoniformes	Salmonidae	*Coregonus zenithicus*	Shortjaw Cisco	SJCK	F		+	+	+	+	+	+
Salmoniformes	Salmonidae	*Prosopium cylindraceum*	Round Whitefish	RDWF	B	+	+	+	+	+		+
Salmoniformes	Salmonidae	*Salvelinus namaycush*	Lake Trout	LKT	C	+	+	+	+	+	+	+
Salmoniformes	Salmonidae	*Stenodus leucichthys*	Inconnu	INCO	C	+	+	+	+	+	+	+
Salmoniformes	Salmonidae	*Thymallus arcticus*	Arctic Grayling	AG	B			+				+
					Sum	16	18	16	16	16	16	25

***Table 4**. Systematic taxonomy and image sources for fish species were collected during fishery-independent gillnet surveys across the Main Basin of Great Slave Lake, 2011 – 2016. The image sources were either by DFO science staff or downloaded from websites to acknowledge the copyrights.*

Common Name	Species code	Image source
Arctic Grayling	AG	https://mynorth.com/2018/05/arctic-grayling-northern-michigan/
Arctic Lamprey	ALP	Taken by Authors
Arctic Sculpin	ASP	https://publications.gc.ca/collections/collection_2017/mpo-dfo /Fs97-4-3066-eng.pdf
Burbot	BBT	Taken by Authors
Lake Chub	CHUB	https://www.anglersatlas.com/fish/lake-chub
Goldeye	GDI	Taken by Authors
Inconnu	INCO	Taken by Authors
Common Dace	KDS	https://badangling.com/coarse-fish-species/dace/
Least Cisco	LCK	https://www.glfc.org/pubs/misc/2011-02.pdf
Cisco	LKH	Taken by Authors
Lake Trout	LKT	Taken by Authors
Lake Whitefish	LKWF	Taken by Authors
Longnose Sucker	LNSK	Taken by Authors
Northern Pearl Dace	NPD	https://www.fishbase.se/photos/PicturesSummary.php?resultPage=2&ID=10142&what=species
Northern Pike	NPK	Taken by Authors
Ninespine Stickleback	NSSBK	Taken by Authors
Round Whitefish	RDWF	https://www.michigan.gov/dnr/education/michigan-species/fish-species/menominee
Sauger	SAUGER	https://www.dnr.state.mn.us/mcvmagazine/issues/2022/may-jun/sauger.html
Spoonhead Sculpin	SHSP	Taken by Authors
Shortjaw Cisco	SJCK	https://www.glfc.org/pubs/misc/2011-02.pdf
Slimy Sculpin	SLSP	https://publications.gc.ca/collections/collection_2017/mpo-dfo/Fs97-4-3066-eng.pdf
Spottail Shiner	SPT	https://en.wikipedia.org/wiki/Spottail_shiner
Troutperch	TP	Taken by Authors
White Sucker	WSK	Taken by Authors
Walleye	WY	Taken by Authors

Table 5. *Summaries of total catch individuals by water stratum, year and Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. The experimental gillnets were set at the surface (a), middle (b), and bottom (c) strata of the water column (d).*

(a) Surface

Year	IW	IE	II	III	IV	V	MB
2011	120	2,419					2,539
2012	51	3,443	18	2,728			6,240
2013	53	2,183	1,266				3,502
2014	101	1,367			1,723		3,191
2015	43	936				1,066	2,045
2016	56	1,685	387	2,112	172		4,412
Sum	424	12,033	1,671	4,840	1,895	1,066	21,929

(b) Middle

Year	IW	IE	II	III	IV	V	MB
2011							
2012				42	24		66
2013			1,405				1,405
2014					61		61
2015		153				10	163
2016		81		629	17		727
Sum		234	1,405	671	102	10	2,422

(c) Bottom

Year	IW	IE	II	III	IV	V	MB
2011	1,294	1,439					2,733
2012	752	1,297	63	1,554	25		3,691
2013	250	785	1,271				2,306
2014	122	1,215			1,759		3,096
2015	476	1,505				504	2,485
2016	641	1,433	63	1,397	122		3,656
Sum	3,535	7,674	1,397	2,951	1,906	504	17,967

(d) All

Year	IW	IE	II	III	IV	V	MB
2011	1,414	3,858					5,272
2012	803	4,740	81	4,324	49		9,997
2013	303	2,968	3,942				7,213
2014	223	2,582			3,543		6,348
2015	519	2,594				1,580	4,693
2016	697	3,199	450	4,138	311		8,795
Sum	3,959	19,941	4,473	8,462	3,903	1,580	42,318

Table 6. *Summaries of total catch weights (g) by water stratum, year and Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. The experimental gillnets were set at the surface (a), middle (b), and bottom (c) strata of the water column (d).*

(a) Surface

Year	IW	IE	II	III	IV	V	MB
2011	29,751	411,802					441,553
2012	21,160	566,610	7,684	773,263			1,368,717
2013	70,358	256,456	236,252				563,066
2014	20,780	395,843			476,270		892,893
2015	25,171	263,193				353,087	641,451
2016	32,499	490,064	68,705	438,067	101,605		1,130,940
Sum	199,719	2,383,967	312,641	1,211,330	577,875	353,087	5,038,619

(b) Middle

Year	IW	IE	II	III	IV	V	MB
2011							
2012				20,000	8,699		28,699
2013			209,458				209,458
2014					29,086		29,086
2015		30,924				11,369	42,293
2016		33,825		32,335	30,410		96,570
Sum		64,749	209,458	52,335	68,195	11,369	406,105

(c) Bottom

Year	IW	IE	II	III	IV	V	MB
2011	316,332	338,961					655,293
2012	409,719	465,376	46,691	610,372	7,336		1,539,493
2013	179,190	178,539	610,478				968,207
2014	127,220	864,466			972,220		1,963,906
2015	152,235	571,388				170,720	894,342
2016	276,713	500,117	50,180	665,078	68,890		1,560,978
Sum	1,461,408	2,918,847	707,349	1,275,450	1,048,446	170,720	7,582,220

(d) All

Year	IW	IE	II	III	IV	V	MB
2011	346,084	750,763					1,096,846
2012	430,879	1,031,986	54,375	1,403,634	16,035		2,936,908
2013	249,548	434,995	1,056,188				1,740,731
2014	148,000	1,260,309			1,477,576		2,885,885
2015	177,406	865,505				535,175	1,578,085
2016	309,212	1,024,006	118,885	1,135,480	200,905		2,788,488
Sum	1,661,128	5,367,563	1,229,448	2,539,114	1,694,516	535,175	13,026,944

Table 7. *Catch rate as individuals per set (number/set) of the experimental gillnets at the surface (a), middle (b), and bottom (c) strata of the water column (d) by Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016.*

(a) Surface

Year	IW	IE	II	III	IV	V	MB
2011	60	302					254
2012	51	574	18	195			284
2013	18	312	70				125
2014	51	105			72		82
2015	22	49				97	64
2016	28	84	194	192	86		119
Sum	35	165	80	194	73	97	131

(b) Middle

Year	IW	IE	II	III	IV	V	MB
2011							
2012				42	24		33
2013			108				108
2014					10		10
2015		51				10	41
2016		41		315	9		121
Sum		47	108	224	11	10	78

(c) Bottom

Year	IW	IE	II	III	IV	V	MB
2011	216	240					228
2012	150	185	63	86	25		115
2013	125	157	71				92
2014	31	81			61		65
2015	119	84				72	86
2016	107	84	32	100	41		87
Sum	131	113	67	92	58	72	96

(d) All

Year	IW	IE	II	III	IV	V	MB
2011	177	276					240
2012	134	365	41	131	25		179
2013	61	247	80				109
2014	37	92			60		68
2015	87	65				83	72
2016	87	82	113	153	44		103
Sum	102	137	81	141	57	83	109

Table 8. *Catch rate as weight per set (kg/set) of the experimental gillnets at the surface (a), middle (b), and bottom (c) strata of the water column (d) by Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016.*

(a) Surface

Year	IW	IE	II	III	IV	V	MB
2011	14.876	51.475					44.155
2012	21.160	94.435	7.684	55.233			62.214
2013	23.453	36.637	13.125				20.110
2014	10.390	30.449			19.845		22.895
2015	12.586	13.852				32.099	20.045
2016	16.250	24.503	34.353	39.824	50.803		30.566
Sum	16.643	32.657	14.888	48.453	22.226	32.099	29.992

(b) Middle

Year	IW	IE	II	III	IV	V	MB
2011							
2012				20.000	8.699		14.349
2013			16.112				16.112
2014					4.848		4.848
2015		10.308				11.369	10.573
2016		16.913		16.168	15.205		16.095
Sum		12.950	16.112	17.445	7.577	11.369	13.100

(c) Bottom

Year	IW	IE	II	III	IV	V	MB
2011	52.722	56.494					54.608
2012	81.944	66.482	46.691	33.910	7.336		48.109
2013	89.595	35.708	33.915				38.728
2014	31.805	57.631			33.525		40.915
2015	38.059	31.744				24.389	30.839
2016	46.119	29.419	25.090	47.506	22.963		37.166
Sum	54.126	42.924	33.683	39.858	31.771	24.389	40.331

(d) All

Year	IW	IE	II	III	IV	V	MB
2011	43.260	53.626					49.857
2012	71.813	79.384	27.187	42.534	8.017		52.445
2013	49.910	36.250	21.555				26.375
2014	24.667	45.011			25.044		31.031
2015	29.568	21.638				28.167	24.278
2016	38.652	26.257	29.721	42.055	28.701		32.806
Sum	42.593	36.764	22.354	42.319	24.919	28.167	33.661

Table 9 *Summaries of number per unit effort (NPUE, individuals/1,000 m^2) and biomass per unit effort (BPUE, g/m^2) of all fish species by Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. The NPUE and BPUE were assessed using experimental gillnets deployed in the surface (5 m below the surface), middle (20 or 30 m deep), and bottom strata of the water column. No mid-water nets (NA) were set in FMA IW. The statistics include mean, standard error (SE) and sample size (N).*

CPUE	Setting	Statistic	IW	IE	II	III	IV	V	MB
NPUE	Surface	Mean	73.46	368.46	181.84	413.72	160.84	200.35	287.66
		SE	18.78	52.04	35.71	60.29	33.73	47.07	25.63
		N	12	73	21	25	26	11	168
	Middle	Mean	NA	88.46	239.65	534.40	19.01	20.20	172.65
		SE	NA	26.32	53.40	326.94	3.63	NA	39.55
		N	NA	5	13	3	9	1	31
	Bottom	Mean	584.20	458.36	232.03	325.37	194.25	227.26	369.85
		SE	81.17	41.24	20.27	36.88	21.55	52.66	20.30
		N	25.00	63.00	21.00	32.00	32.00	7.00	180.00
	All	Mean	418.55	398.70	214.67	372.63	157.74	200.78	317.29
		SE	56.53	32.70	20.11	35.77	16.79	33.52	15.27
		N	37.00	141.00	55.00	60.00	67.00	19.00	379.00
BPUE	Surface	Mean	22.01	46.60	22.30	66.61	30.81	44.49	42.20
		SE	13.25	10.00	8.58	20.25	11.32	20.97	6.00
		N	12.00	73.00	21.00	25.00	26.00	11.00	168.00
	Middle	Mean	NA	17.85	24.78	29.24	9.87	14.34	19.43
		SE	NA	13.49	8.66	31.68	10.03	NA	6.14
		N	NA	5	13	3	9	1	31
	Bottom	Mean	161.35	114.02	95.90	104.17	87.41	55.76	109.73
		SE	41.43	19.98	22.78	24.26	20.52	30.91	11.20
		N	25	63	21	32	32	7	180
	All	Mean	116.16	75.71	50.98	84.77	55.03	47.06	72.41
		SE	9.57	3.39	3.36	4.99	3.63	5.31	1.98
		N	37	141	55	60	67	19	379

Table 10. *Summaries of numbers per unit effort (NPUE, individuals/1,000 m^2) and biomass per unit effort (BPUE, g/m^2) of all fish species by mesh size (13, 19, 25, 32, 38, 51, 64, 89, 114, and 140 mm) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. The NPUE and BPUE were assessed using a set of experimental gillnets deployed in the surface (5 m below the surface), middle (20 or 30 m deep), and bottom strata of the water column. The statistics include mean, standard error (SE) and sample size (N).*

			Mesh size (mm)										
CPUE	Setting	Statistic	13	19	25	32	38	51	64	89	114	140	All
NPUE	Surface	Mean	23.66	509.67	1342.56	390.33	220.09	123.73	91.98	105.22	53.12	16.22	287.66
		SE	5.64	101.44	208.44	43.16	31.73	17.61	11.08	10.85	6.06	1.98	25.63
		N	168	168	168	168	168	168	168	168	168	168	1680
	Middle	Mean	3.23	40.32	726.61	518.55	206.45	106.90	44.77	43.97	24.94	10.77	172.65
		SE	1.92	20.40	243.60	282.82	45.35	22.09	7.97	9.36	5.33	2.58	39.55
		N	31	31	31	31	31	31	31	31	31	31	310
	Bottom	Mean	261.39	532.36	663.89	550.97	601.53	328.02	289.21	255.94	156.96	58.21	369.85
		SE	60.60	108.75	115.77	61.65	70.28	22.20	28.65	14.55	9.86	6.55	20.30
		N	180	180	180	180	180	180	180	180	180	180	1800
	All	Mean	134.89	482.06	969.85	477.11	400.13	219.38	181.79	171.79	100.13	35.72	317.29
		SE	29.51	68.73	110.46	41.89	37.66	14.25	15.40	9.43	6.09	3.42	15.27
		N	379	379	379	379	379	379	379	379	379	379	3790
BPUE	Surface	Mean	1.08	10.61	40.07	31.93	19.86	37.83	52.67	95.20	82.76	49.99	42.20
		SE	0.42	2.04	5.24	3.77	2.36	4.31	5.49	9.29	9.24	6.55	1.90
		N	168	168	168	168	168	168	168	168	168	168	1680
	Middle	Mean	0.20	4.85	17.78	18.77	18.90	18.11	23.10	34.12	27.18	31.26	19.43
		SE	0.18	4.46	5.31	8.73	4.52	3.87	4.31	7.16	5.99	9.44	1.94
		N	31	31	31	31	31	31	31	31	31	31	310
	Bottom	Mean	4.57	23.37	66.32	86.31	114.84	119.41	153.72	218.11	195.83	114.84	109.73
		SE	1.23	3.44	9.00	9.25	10.46	7.73	11.68	12.44	12.44	15.19	3.54
		N	180	180	180	180	180	180	180	180	180	180	1800
	All	Mean	2.66	16.20	50.72	56.68	64.89	74.96	98.25	148.58	131.92	79.25	72.41
		SE	0.62	1.93	4.95	4.96	5.64	4.68	6.65	8.02	7.88	8.00	1.98
		N	379	379	379	379	379	379	379	379	379	379	3790

Table 11. *Commercial fisheries landings (metric tons) for eight fish species in Great Slave Lake, 1945-2016: three important commercial species, Inconnu (INCO), Lake Trout (LKT), and Lake Whitefish (LKWF), and five bycatch species, Burbot (BBT), Goldeye (GDI), Longnose Sucker (LNSK), Northern Pike (NPK), and Walleye (WY). Statistics include minimum (Min), Maximum (Max), mean, standard deviation (SD), and percent coefficient of variation (CV%).*

Year	BBT	GDI	INCO	LKT	LKWF	LNSK	NPK	WY	Sum
1945			40.000	483.510	227.908				751.418
1946			51.364	734.118	569.770				1,355.252
1947			39.000	755.910	900.736				1,695.646
1948			102.000	992.898	2,193.274				3,288.172
1949			163.000	1,822.810	2,465.220				4,451.030
1950			123.000	1,155.884	2,604.598				3,883.482
1951			146.000	1,257.126	1,910.432				3,313.558
1952			89.000	1,344.748	1,663.456				3,097.204
1953			91.000	1,090.508	1,785.582				2,967.090
1954			78.000	1,119.564	1,786.944				2,984.508
1955			75.000	1,293.900	1,988.974				3,357.874
1956			76.000	1,187.210	1,861.400				3,124.610
1957			97.000	898.920	1,990.336				2,986.256
1958			98.000	914.356	1,530.888				2,543.244
1959			141.000	774.070	1,554.950				2,470.020
1960			78.000	497.130	1,720.206				2,295.336
1961			135.000	485.326	1,676.168				2,296.494
1962			125.000	532.088	2,039.822				2,696.910
1963			156.000	316.892	2,039.368				2,512.260
1964			132.000	302.818	1,761.520				2,196.338
1965			139.000	368.648	1,706.586				2,214.234
1966			98.000	267.860	1,228.978				1,594.838
1967			111.000	302.818	1,048.740				1,462.558
1968			83.000	121.672	1,439.180				1,643.852
1969			79.000	136.200	1,366.086				1,581.286
1970			58.000	222.914	1,467.328				1,748.242
1971			62.000	146.188	1,373.350				1,581.538
1972			129.424	85.757	1,003.608				1,218.789
1973			103.553	92.072	1,004.493		155.250	16.710	1,372.078
1974			112.812	110.789	973.902				1,197.502
1975			94.951	99.410	921.526		91.141	10.317	1,217.346
1976			77.257	82.625	975.826		102.985	8.948	1,247.641
1977			227.198	108.177	1,173.336		118.460	10.861	1,638.032
1978			152.650	105.570	1,107.985		157.448	13.209	1,536.862
1979			153.550	121.039	1,065.509		129.545	6.178	1,475.820
1980			65.041	121.655	1,178.611		199.615	18.565	1,583.487
1981			43.299	85.188	1,097.139		150.866	4.119	1,380.611
1982			22.948	74.779	1,138.629		165.526	7.766	1,409.648
1983			16.091	61.233	898.524		114.907	4.911	1,095.666
1984			47.010	50.155	863.084		104.575	15.267	1,080.091
1985			71.986	109.594	875.913		155.448	12.994	1,225.935
1986			62.420	107.435	1,219.437		129.807	12.276	1,531.375
1987			73.713	126.869	1,310.364		139.312	13.518	1,663.776
1988	0.176		55.362	65.255	1,439.016		112.864	20.272	1,692.945
1989			83.732	137.224	1,451.334	0.141	170.490	20.310	1,863.231
1990			69.474	87.216	1,317.408		203.501	34.463	1,712.062
1991	34.415		53.926	86.524	1,452.383	6.988	187.079	12.279	1,833.594
1992	41.883		26.788	48.167	1,215.230	2.136	162.202	4.150	1,500.556
1993	16.584		43.034	61.563	1,201.882		143.319	5.139	1,471.521
1994	0.767		20.291	76.225	1,160.931		139.053	19.692	1,416.959
1995	6.312		35.760	95.713	1,097.437	0.346	224.479	10.327	1,470.374

Cont. Table 11.

Year	BBT	GDI	INCO	LKT	LKWF	LNSK	NPK	WY	Sum
1996	68.267		53.778	119.544	1,153.056	8.432	131.000	10.027	1,544.104
1997	67.244		68.770	103.935	1,033.032	13.967	132.623	18.755	1,438.326
1998	47.811		30.140	93.014	908.184	12.959	147.282	12.856	1,252.246
1999	137.793		27.377	84.779	855.717	11.852	124.845	13.753	1,256.116
2000	66.853		37.290	39.127	834.630	7.885	111.687	10.892	1,108.364
2001	0.098		26.055	75.235	906.214	10.117	75.600	21.326	1,114.645
2002	34.424		50.113	60.099	942.918	3.197	102.913	27.725	1,221.389
2003	58.407		67.019	62.783	787.914		77.133	11.602	1,064.858
2004	33.457		62.951	87.310	782.204		92.069	11.210	1,069.201
2005			38.765	52.433	728.130		63.761	6.072	889.162
2006	17.921		29.148	52.529	537.102		56.945	4.907	698.552
2007	5.269		10.293	10.031	235.097		29.508	0.704	290.902
2008			10.156	21.904	299.251		11.617	0.603	343.531
2009	2.209		13.140	45.315	297.137		19.649	7.404	384.854
2010			9.569	42.179	416.120		14.950	4.408	487.225
2011		0.017	10.199	53.323	353.074		10.612	1.217	428.441
2012			11.855	50.759	300.056		11.814	3.840	379.182
2013		0.432	46.606	77.150	353.090		13.498	8.685	502.068
2014		0.884	88.644	68.465	166.119		13.034	8.954	347.006
2015			17.058	62.034	391.666		18.699	7.598	497.084
2016		0.128	28.114	89.160	473.624	0.385	15.506	13.338	620.275
Min	0.10	0.02	9.57	10.03	166.12	0.14	10.61	0.60	290.90
Max	137.79	0.88	227.20	1,822.81	2,604.60	13.97	224.48	34.46	4,451.03
Mean	37.63	0.37	72.84	320.52	1,163.88	6.53	105.41	11.35	1,637.04
SD	35.51	0.39	45.79	418.38	555.85	5.14	60.86	7.05	894.72
CV%	94	106	63	131	48	79	58	62	55

FIGURES

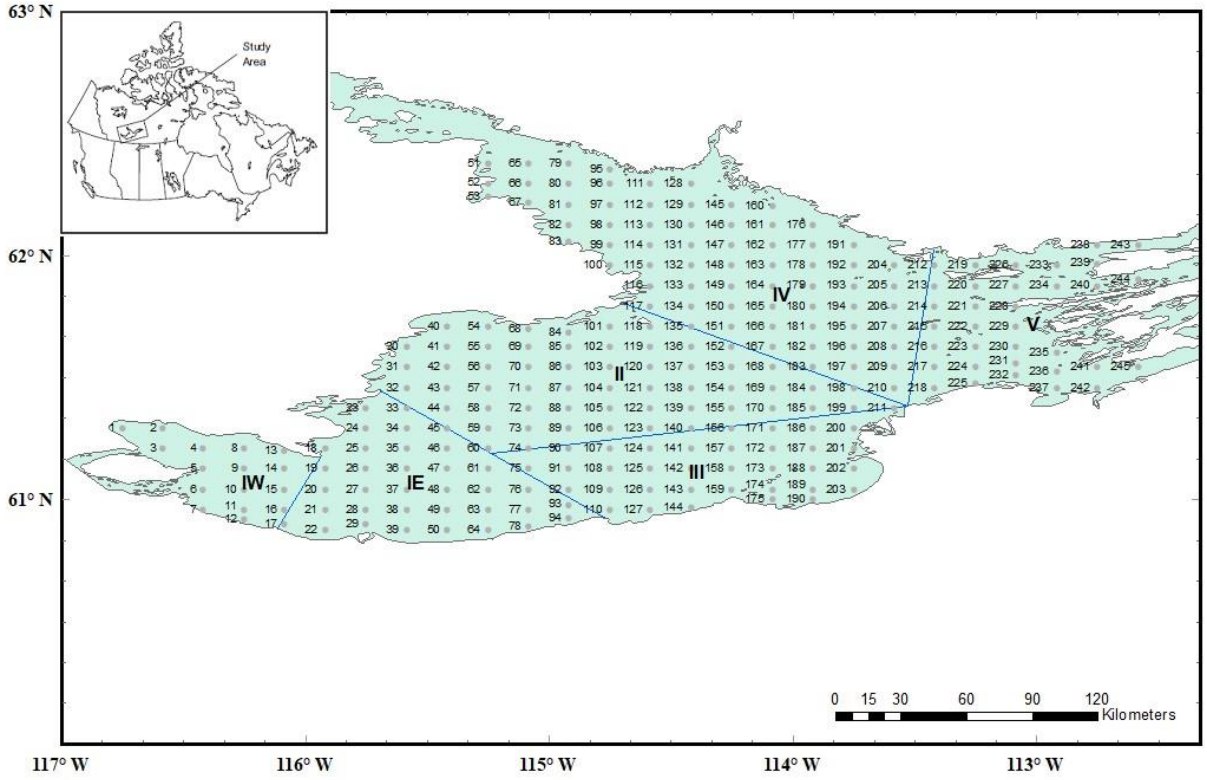

Figure 1. *Fishery-independent gillnet study (FIGS) grids (1-245) in Fishery Management Areas (FMAs IW, IE, II, III, IV, and V) across the Main Basin of Great Slave Lake, Northwest Territories, Canada.*

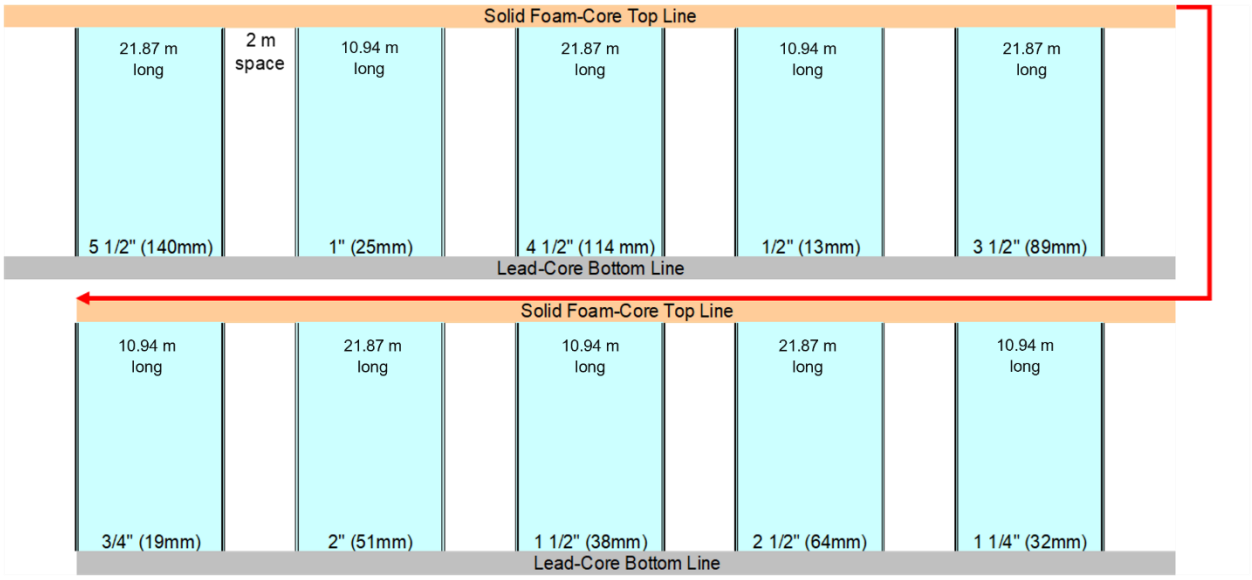

Figure 2*. Structure of a gang of experimental gillnets used for the Great Slave Lake fisheries-independent gillnet studies, indicating respective mesh sizes (mm), length (m) and random order. Panel depth varied between 1.8 m and 3.7 m for benthic (bottom) and pelagic (floating) gillnets, respectively.*

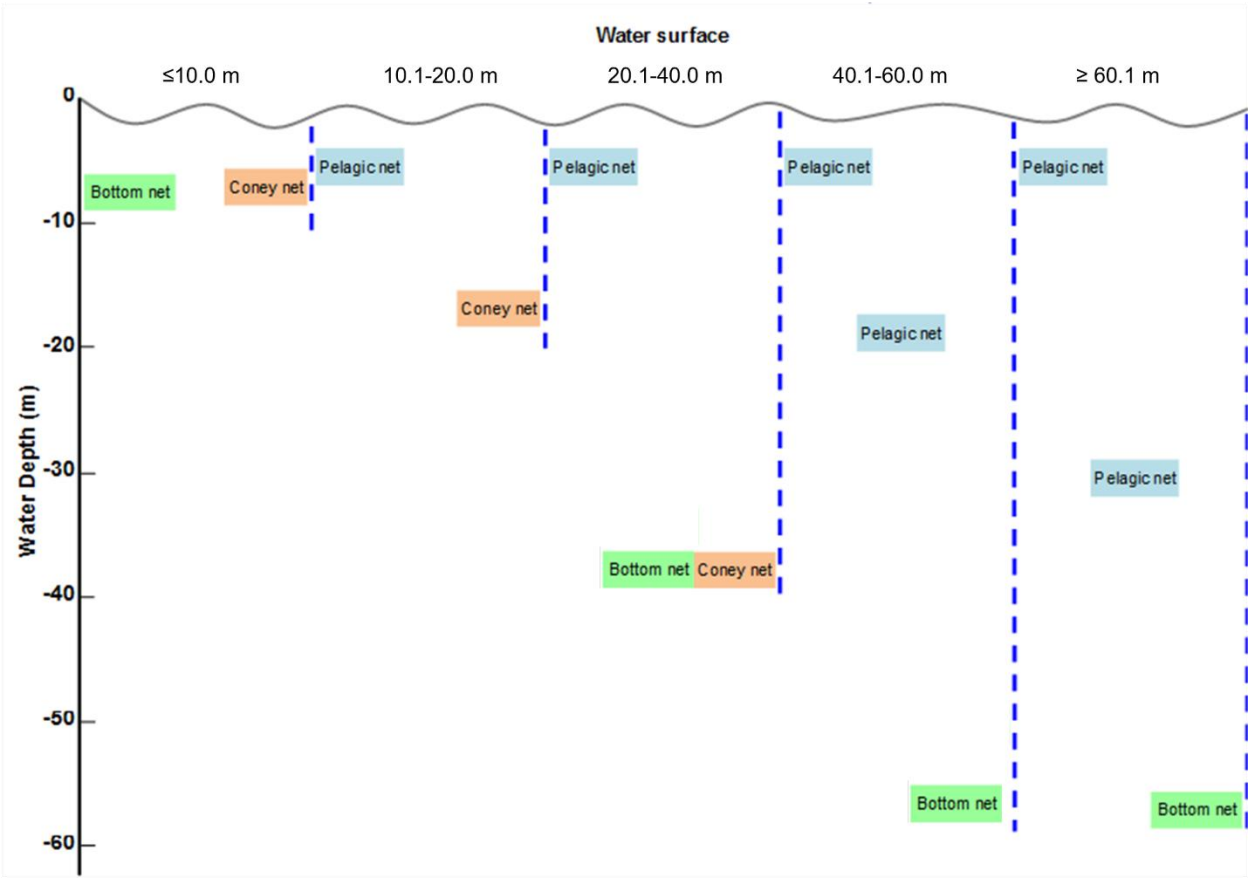

***Figure 3**. Vertical profile of depth-dependent gillnet settings in the Main Basin of Great Slave Lake. Dashed lines show divisions of the depth strata.*

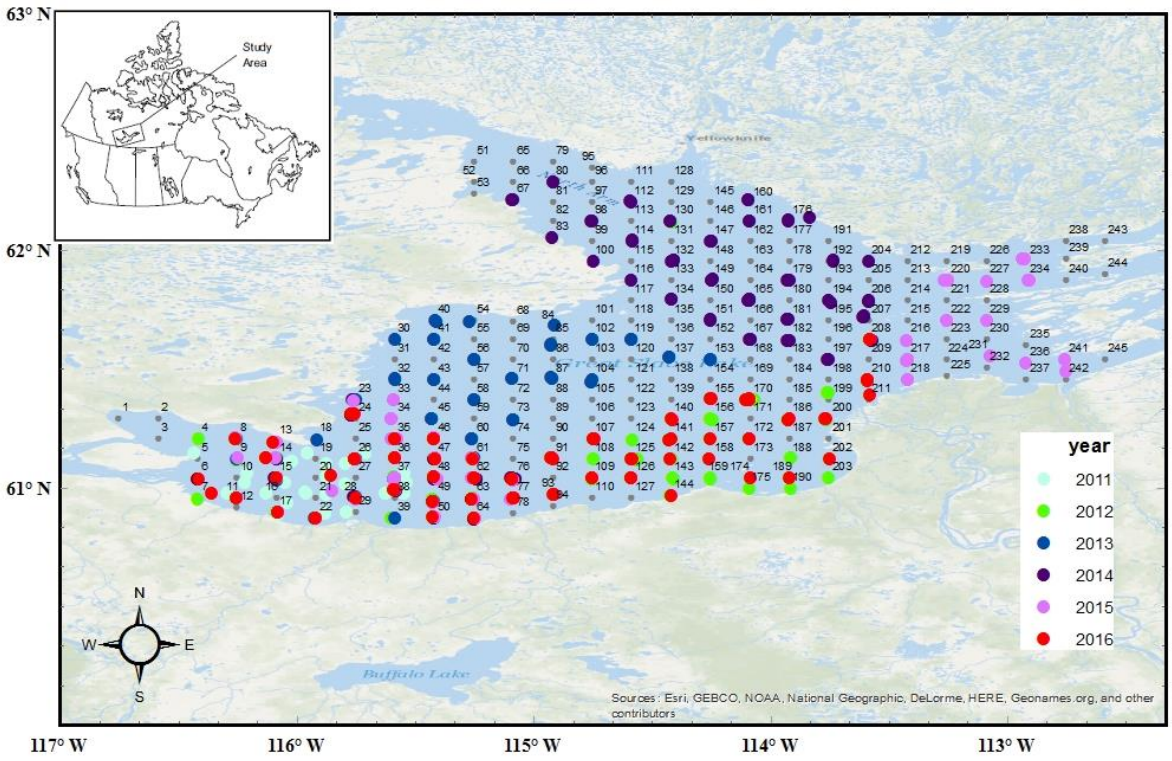

Figure 4. *Distribution of grids (grey dots and digits) designated for the fisheries independent gillnet study (FIGS) in the Main Basin of Great Slave Lake. The coloured dots indicate the year of annual FIGS sampling from 2011 through 2016.*

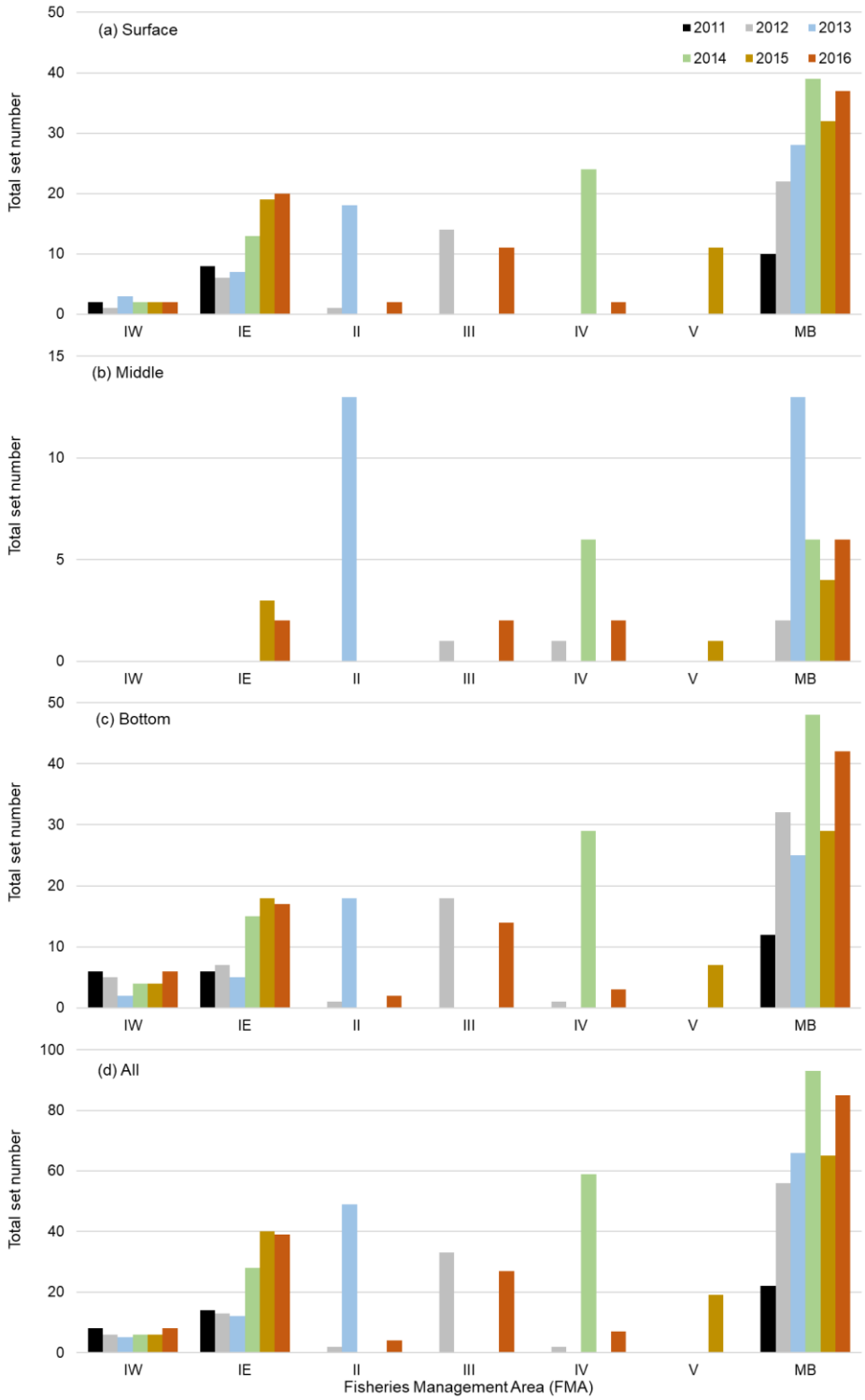

Figure 5. *Variation in total set numbers in the surface (a), middle (b), bottom (c) and entire water column (d) across the Fishery Management Areas (FMAs IW, IE, II, III, IV, and V) of the Main Basin (MB), Great Slave Lake. Colour indicates the FIGS year from 2011 to 2016.*

Figure 6. *Images of fish caught in the Main Basin of Great Slave Lake, 2011-2016. Some photos were taken from the survey, and others were from websites, as seen in Table 4.*

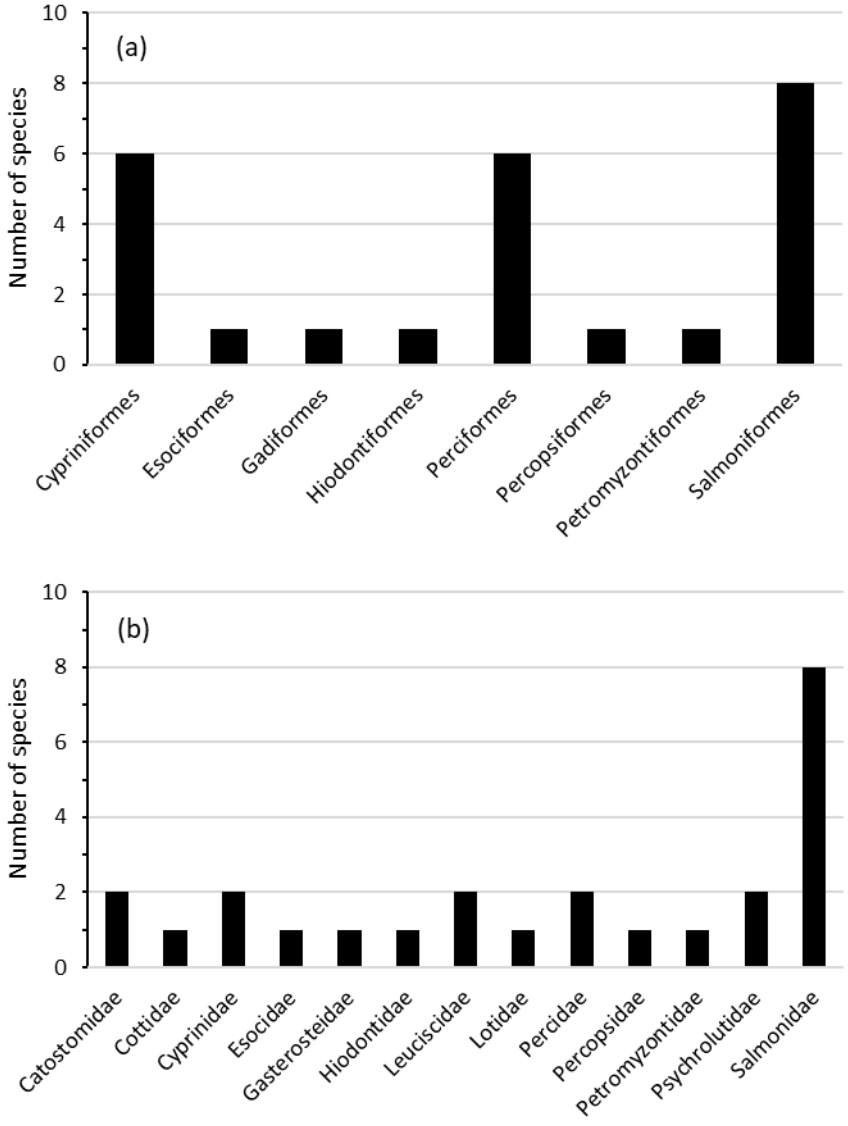

Figure 7*. Fish species richness by taxonomical order (a) and family (b), which were caught with experimental and commercial gillnets across the Main Basin of Great Slave Lake, 2011 – 2016.*

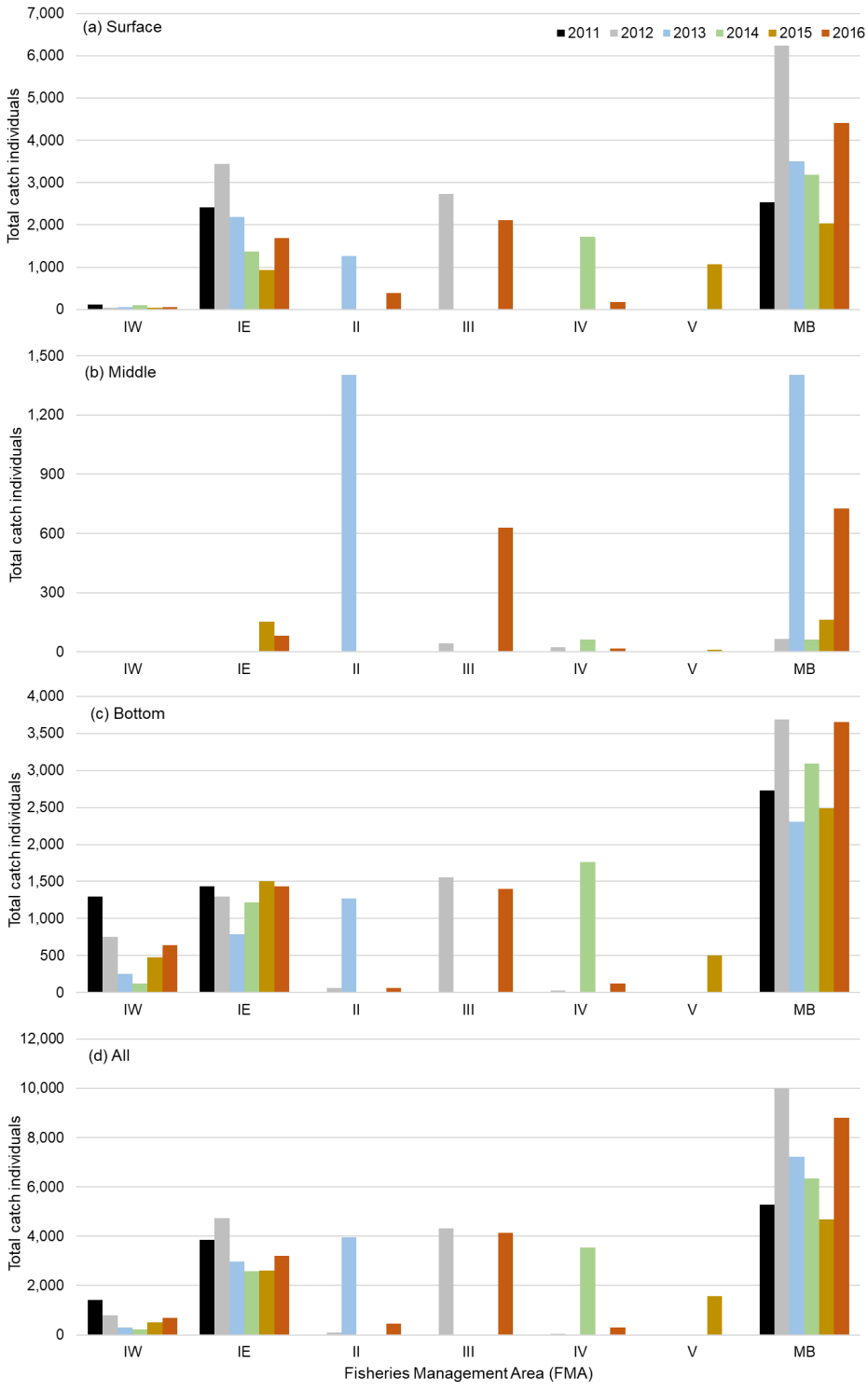

Figure 8. *Summaries of total catch individuals by water stratum, year, and Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. The experimental gillnets were set in the surface (a), middle (b), and bottom (c) strata of the water column (d). Colour indicates the FIGS year.*

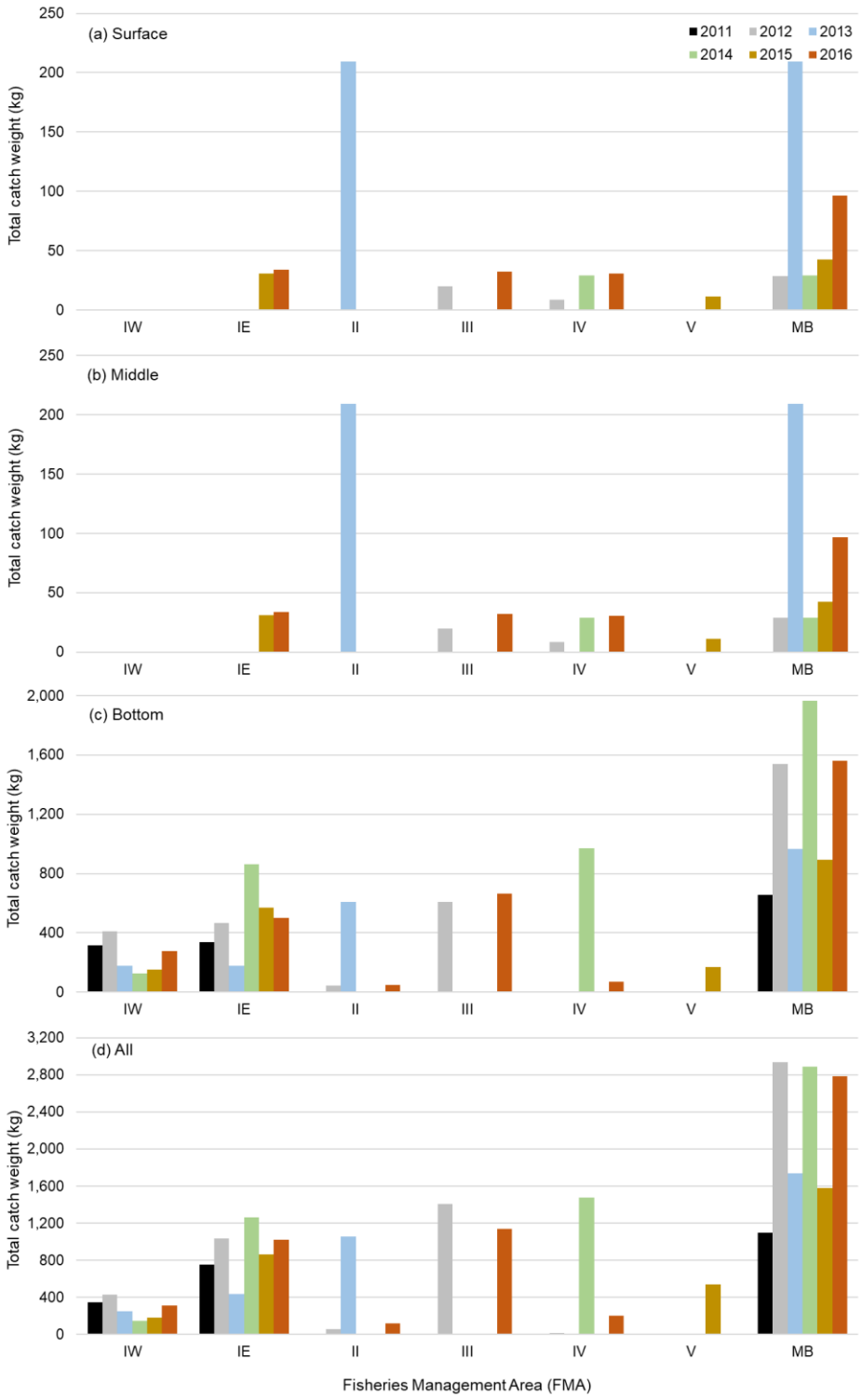

Figure 9. *Summaries of total catch weight (kg) by water stratum, year, and Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. The experimental gillnets were set in the surface (a), middle (b), and bottom (c) strata of the water column (d). Colour indicates the FIGS year.*

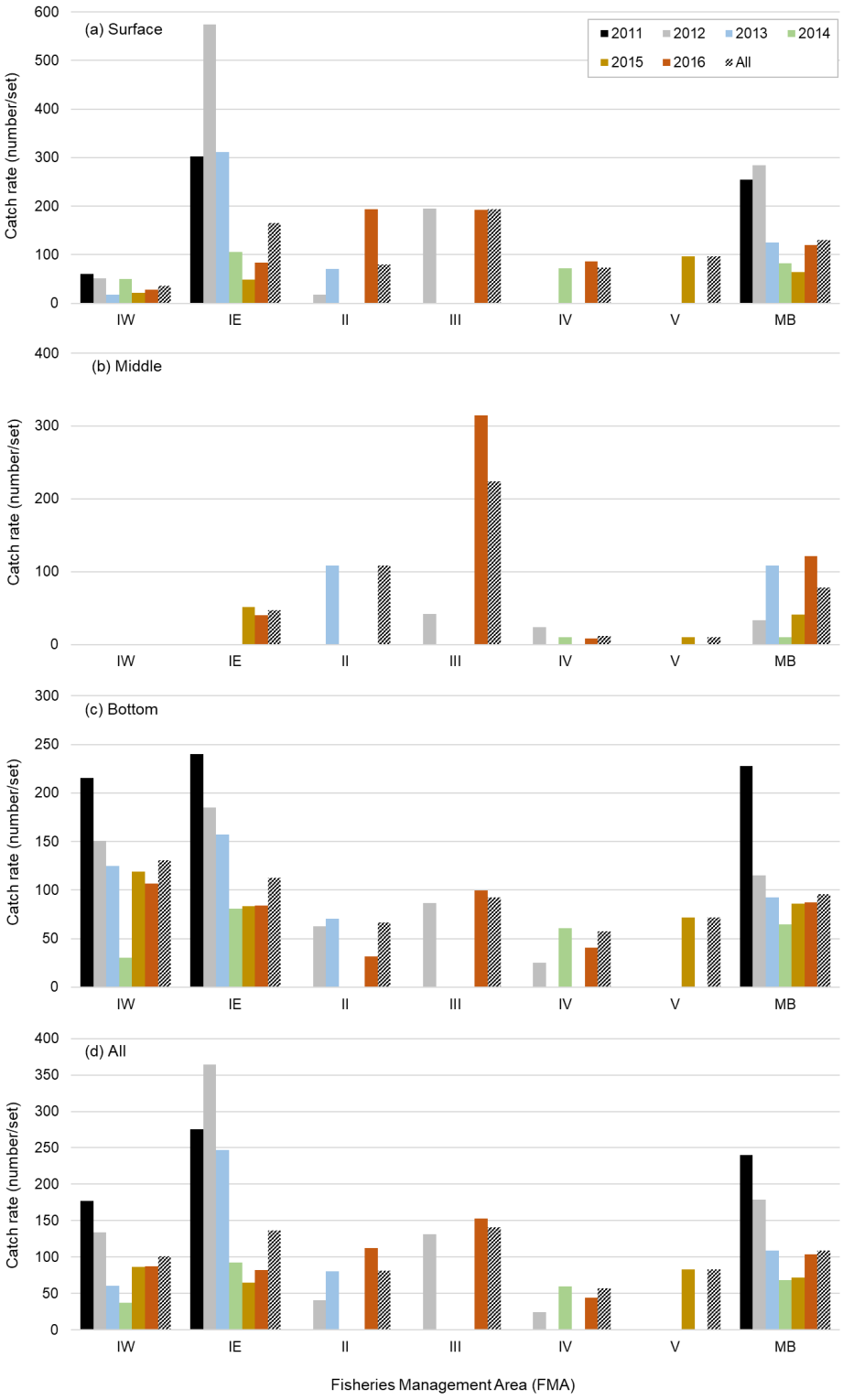

Figure 10. *Catch rate as individuals per set (number/set) of the experimental gillnets in the surface (a), middle (b), and bottom (c) strata of the water column (d) by Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. Colour indicates the FIGS year.*

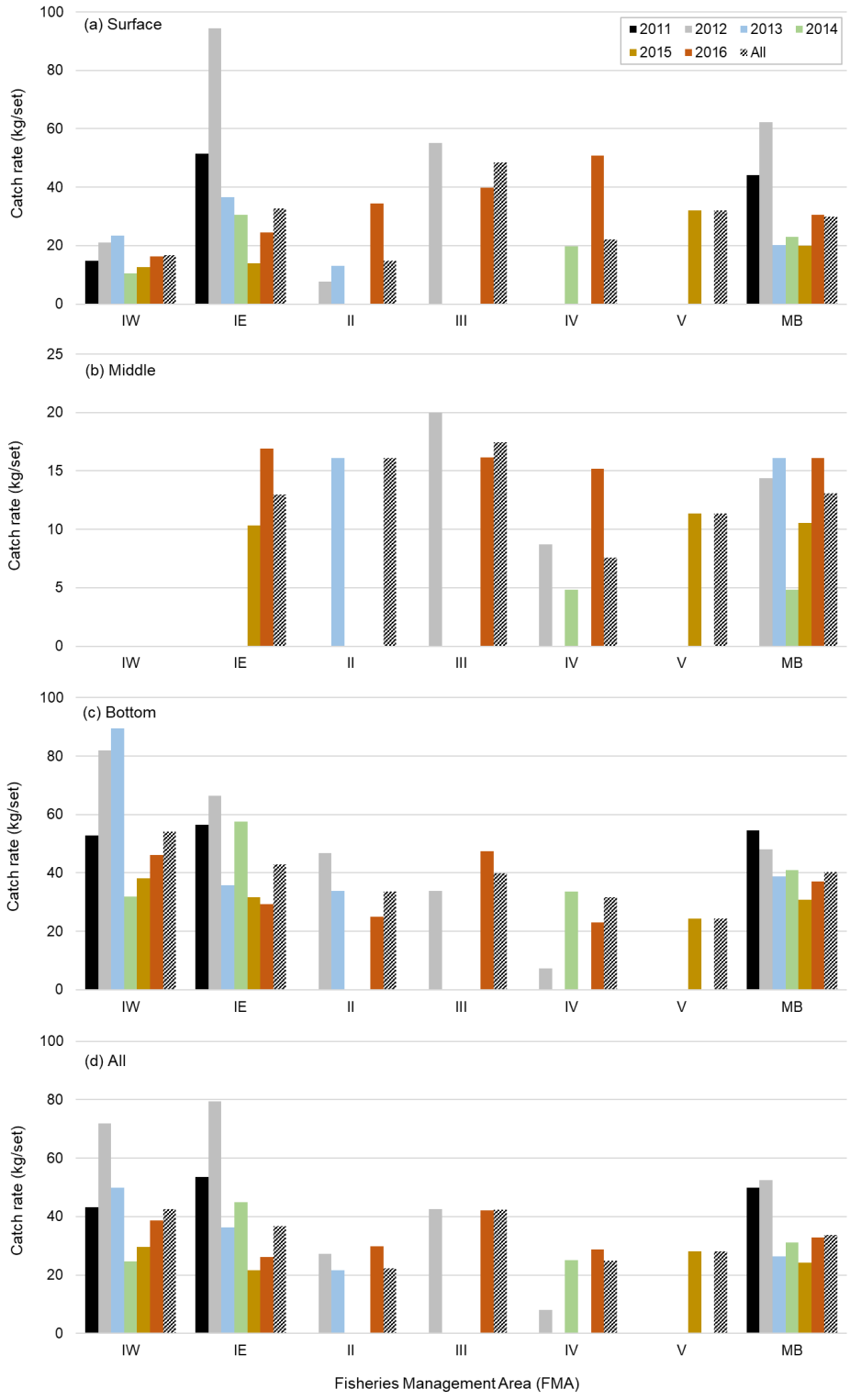

Figure 11. *Catch rate as weight per set (kg/set) of the experimental gillnets in the surface (a), middle (b), and bottom strata (c) strata of the water column (d) by Fishery Management Area (FMAs IW, IE, II, III, IV, and V) across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. Colour indicates the FIGS year.*

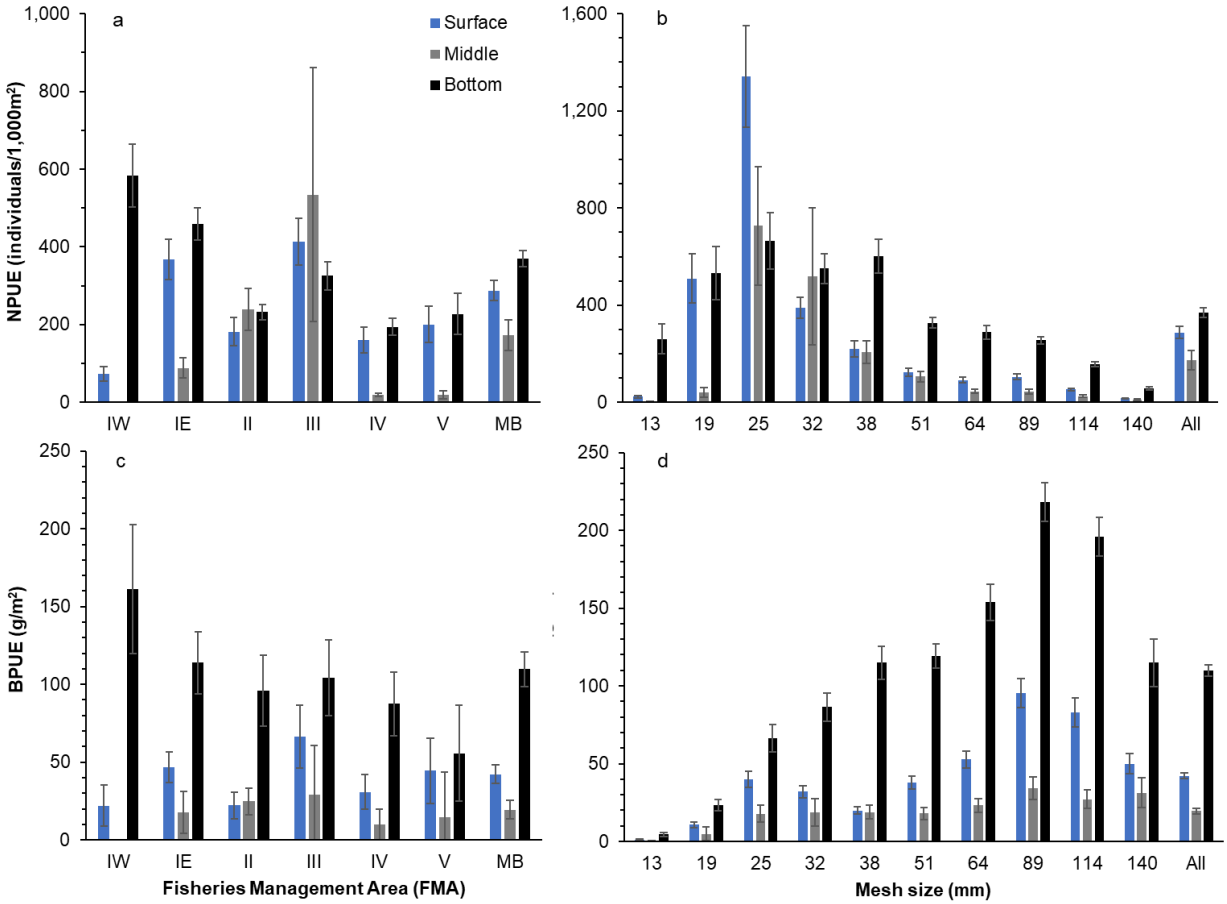

Figure 12. *Average number per unit effort (NPUE, individuals/1,000 m^2) and biomass per unit effort (BPUE, g/m^2) of all fish species by Fisheries Management Area (a and c: FMAs IW, IE, II, III, IV, and V) and mesh size (b and d: 13, 19, 25, 32, 38, 51, 64, 89, 114, and 140 mm) of experimental gillnets in the surface (blue, 5 m below the surface), middle (gray, 20 or 30 m deep) and bottom (black) water strata across the Main Basin (MB) of Great Slave Lake, 2011 – 2016. Whiskers indicate standard error.*

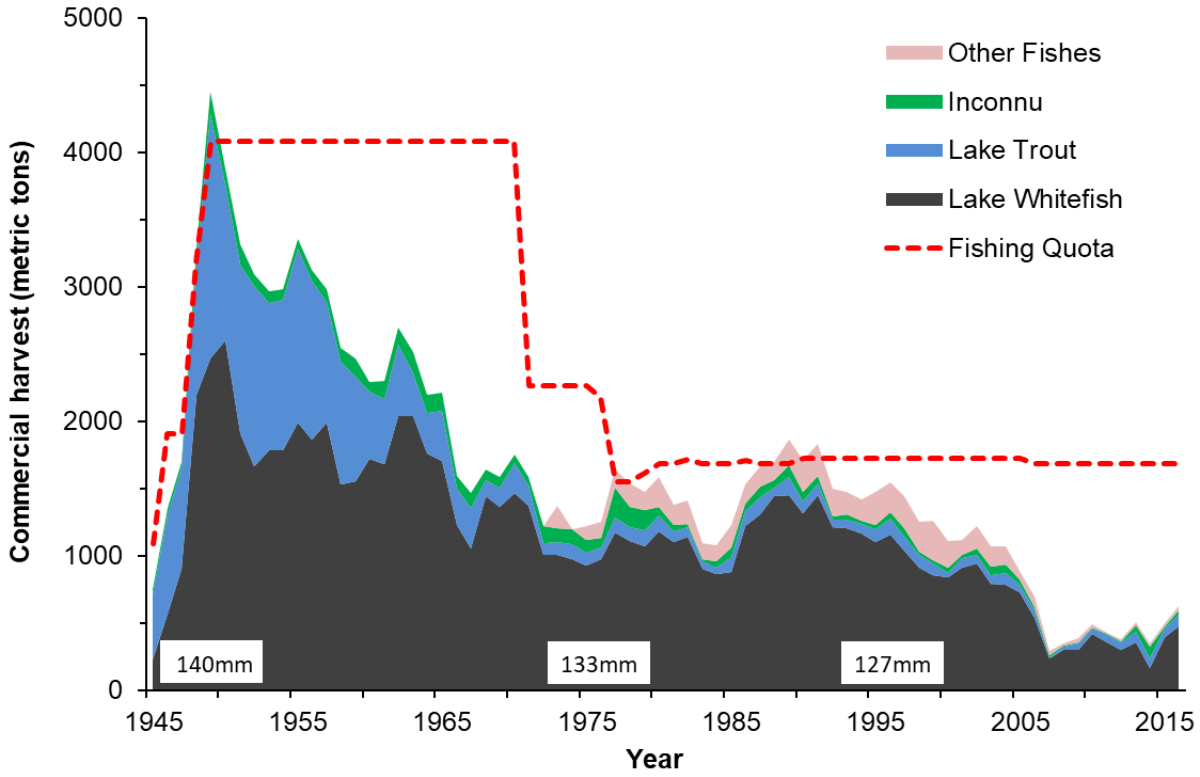

Figure 13. *Commercial fisheries landings (metric tons) and fishing quotas (red dashed line) in Great Slave Lake, 1945 – 2016. Legal minimum mesh sizes have been changed from 140 mm in 1945, 133 mm in 1977, and 127 mm in 1997. The landings by Lake Whitefish, Lake Trout, Inconnu, and other fish are expressed by colour.*

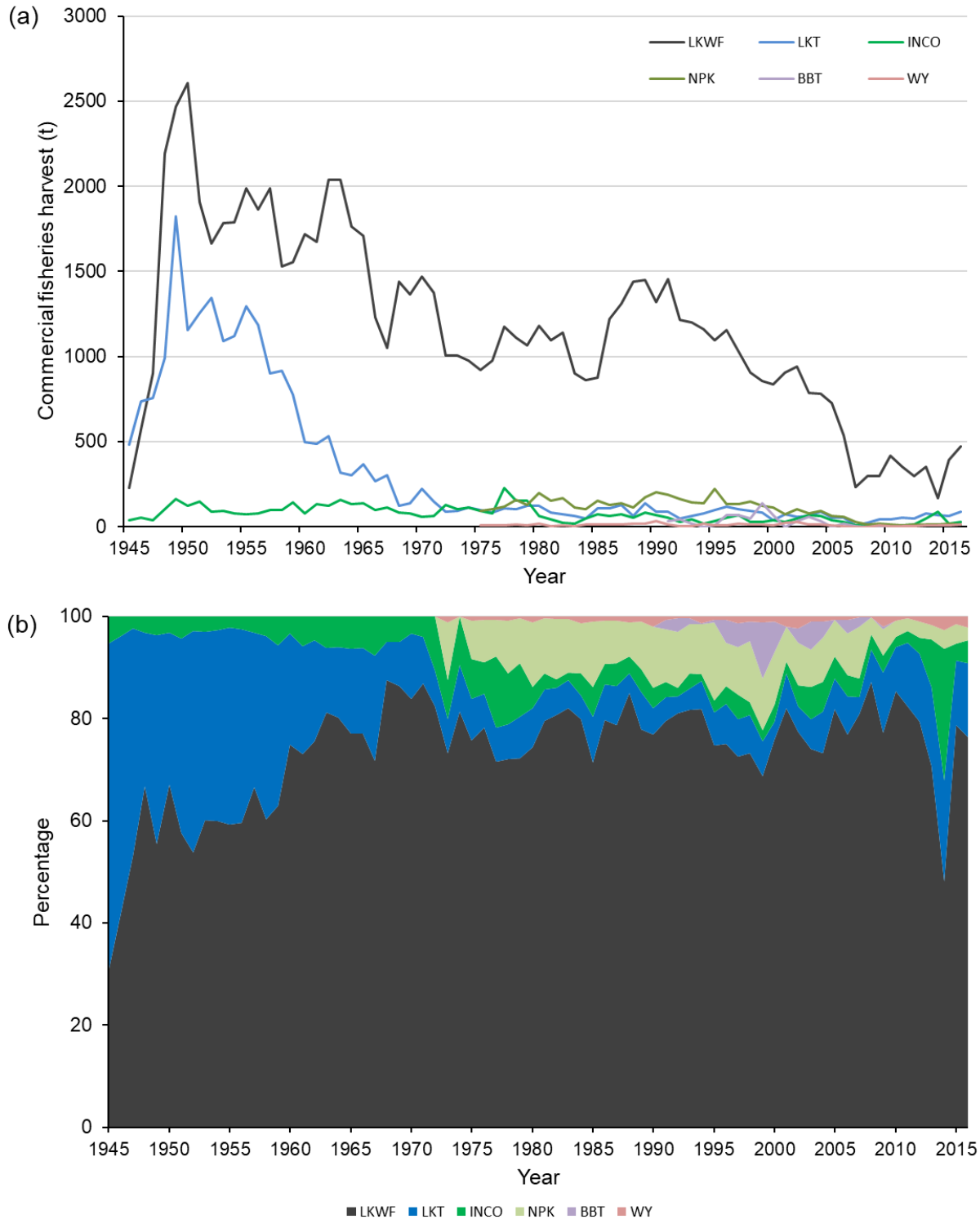

Figure 14. *The absolute (a) and relative (b) contributions to the Great Slave Lake commercial fisheries by Lake Whitefish (LKWF), Lake Trout (LKT), Inconnu (INCO), Northern Pike (NPK), Burbot (BBT), and Walleye (WY), 1945 – 2016.*

***Appendix A**. Coordinates of grids across the Main Basin of Great Slave Lake. The grids were organized by Fisheries Management Areas (FMAs IW, IE, II, III, IV, and V) and Western (WB: FMAs IW and IE), Central (CB: FMAs II and III), and Northern (NB: FMAs IV and V) Basins.*

Grid	Latitude (N)			Longitude (W)			FMA	Area code	Basin
	Decimal	Degree	Minute	Decimal	Degree	Minute			
1	61.2917	61	17.50	-116.7500	-116	45	IW	11	WB
2	61.2917	61	17.50	-116.5833	-116	35	IW	11	WB
3	61.2083	61	12.50	-116.5833	-116	35	IW	11	WB
4	61.2083	61	12.50	-116.4167	-116	25	IW	11	WB
5	61.1250	61	7.50	-116.4167	-116	25	IW	11	WB
6	61.0417	61	2.50	-116.4167	-116	25	IW	11	WB
7	60.9583	60	57.50	-116.4167	-116	25	IW	11	WB
8	61.2083	61	12.50	-116.2500	-116	15	IW	11	WB
9	61.1250	61	7.50	-116.2500	-116	15	IW	11	WB
10	61.0417	61	2.50	-116.2500	-116	15	IW	11	WB
11	60.9583	60	57.50	-116.2500	-116	15	IW	11	WB
12	60.9167	60	55.00	-116.2500	-116	15	IW	11	WB
13	61.2000	61	12.00	-116.0833	-116	5	IW	11	WB
14	61.1250	61	7.50	-116.0833	-116	5	IW	11	WB
15	61.0417	61	2.50	-116.0833	-116	5	IW	11	WB
16	60.9583	60	57.50	-116.0833	-116	5	IW	11	WB
17	60.9000	60	54.00	-116.0833	-116	5	IE	12	WB
18	61.2083	61	12.50	-115.9167	-115	55	IE	12	WB
19	61.1250	61	7.50	-115.9167	-115	55	IE	12	WB
20	61.0417	61	2.50	-115.9167	-115	55	IE	12	WB
21	60.9583	60	57.50	-115.9167	-115	55	IE	12	WB
22	60.8750	60	52.50	-115.9167	-115	55	IE	12	WB
23	61.3750	61	22.50	-115.7500	-115	45	IE	12	WB
24	61.2917	61	17.50	-115.7500	-115	45	IE	12	WB
25	61.2083	61	12.50	-115.7500	-115	45	IE	12	WB
26	61.1250	61	7.50	-115.7500	-115	45	IE	12	WB
27	61.0417	61	2.50	-115.7500	-115	45	IE	12	WB
28	60.9583	60	57.50	-115.7500	-115	45	IE	12	WB
29	60.9000	60	54.00	-115.7500	-115	45	IE	12	WB
33	61.3750	61	22.50	-115.5833	-115	35	IE	12	WB
34	61.2917	61	17.50	-115.5833	-115	35	IE	12	WB
35	61.2083	61	12.50	-115.5833	-115	35	IE	12	WB
36	61.1250	61	7.50	-115.5833	-115	35	IE	12	WB
37	61.0417	61	2.50	-115.5833	-115	35	IE	12	WB
38	60.9583	60	57.50	-115.5833	-115	35	IE	12	WB
39	60.8750	60	52.50	-115.5833	-115	35	IE	12	WB
46	61.2083	61	12.50	-115.4167	-115	25	IE	12	WB
47	61.1250	61	7.50	-115.4167	-115	25	IE	12	WB
48	61.0417	61	2.50	-115.4167	-115	25	IE	12	WB
49	60.9583	60	57.50	-115.4167	-115	25	IE	12	WB
50	60.8750	60	52.50	-115.4167	-115	25	IE	12	WB
61	61.1250	61	7.50	-115.2500	-115	15	IE	12	WB
62	61.0417	61	2.50	-115.2500	-115	15	IE	12	WB
63	60.9583	60	57.50	-115.2500	-115	15	IE	12	WB
64	60.8750	60	52.50	-115.2500	-115	15	IE	12	WB
76	61.0417	61	2.50	-115.0833	-115	5	IE	12	WB
77	60.9583	60	57.50	-115.0833	-115	5	IE	12	WB
78	60.8917	60	53.50	-115.0833	-115	5	IE	12	WB

Cont. Appendix A

Grid	Latitude (N)			Longitude (W)			FMA	Area code	Basin
	Decimal	Degree	Minute	Decimal	Degree	Minute			
93	60.9750	60	58.50	-114.9167	-114	55	IE	12	WB
94	60.9250	60	55.50	-114.9167	-114	55	IE	12	WB
30	61.6250	61	37.50	-115.5833	-115	35	II	20	CB
31	61.5417	61	32.50	-115.5833	-115	35	II	20	CB
32	61.4583	61	27.50	-115.5833	-115	35	II	20	CB
40	61.7083	61	42.50	-115.4167	-115	25	II	20	CB
41	61.6250	61	37.50	-115.4167	-115	25	II	20	CB
42	61.5417	61	32.50	-115.4167	-115	25	II	20	CB
43	61.4583	61	27.50	-115.4167	-115	25	II	20	CB
44	61.3750	61	22.50	-115.4167	-115	25	II	20	CB
45	61.2917	61	17.50	-115.4167	-115	25	II	20	CB
54	61.7083	61	42.50	-115.2500	-115	15	II	20	CB
55	61.6250	61	37.50	-115.2500	-115	15	II	20	CB
56	61.5417	61	32.50	-115.2500	-115	15	II	20	CB
57	61.4583	61	27.50	-115.2500	-115	15	II	20	CB
58	61.3750	61	22.50	-115.2500	-115	15	II	20	CB
59	61.2917	61	17.50	-115.2500	-115	15	II	20	CB
60	61.2083	61	12.50	-115.2500	-115	15	II	20	CB
68	61.7000	61	42.00	-115.0833	-115	5	II	20	CB
69	61.6250	61	37.50	-115.0833	-115	5	II	20	CB
70	61.5417	61	32.50	-115.0833	-115	5	II	20	CB
71	61.4583	61	27.50	-115.0833	-115	5	II	20	CB
72	61.3750	61	22.50	-115.0833	-115	5	II	20	CB
73	61.2917	61	17.50	-115.0833	-115	5	II	20	CB
74	61.2083	61	12.50	-115.0833	-115	5	II	20	CB
84	61.6833	61	41.00	-114.9167	-114	55	II	20	CB
85	61.6250	61	37.50	-114.9167	-114	55	II	20	CB
86	61.5417	61	32.50	-114.9167	-114	55	II	20	CB
87	61.4583	61	27.50	-114.9167	-114	55	II	20	CB
88	61.3750	61	22.50	-114.9167	-114	55	II	20	CB
89	61.2917	61	17.50	-114.9167	-114	55	II	20	CB
101	61.7083	61	42.50	-114.7500	-114	45	II	20	CB
102	61.6250	61	37.50	-114.7500	-114	45	II	20	CB
103	61.5417	61	32.50	-114.7500	-114	45	II	20	CB
104	61.4583	61	27.50	-114.7500	-114	45	II	20	CB
105	61.3750	61	22.50	-114.7500	-114	45	II	20	CB
106	61.2917	61	17.50	-114.7500	-114	45	II	20	CB
118	61.7083	61	42.50	-114.5833	-114	35	II	20	CB
119	61.6250	61	37.50	-114.5833	-114	35	II	20	CB
120	61.5417	61	32.50	-114.5833	-114	35	II	20	CB
121	61.4583	61	27.50	-114.5833	-114	35	II	20	CB
122	61.3750	61	22.50	-114.5833	-114	35	II	20	CB
123	61.2917	61	17.50	-114.5833	-114	35	II	20	CB
136	61.6250	61	37.50	-114.4167	-114	25	II	20	CB
137	61.5417	61	32.50	-114.4167	-114	25	II	20	CB
138	61.4583	61	27.50	-114.4167	-114	25	II	20	CB
139	61.3750	61	22.50	-114.4167	-114	25	II	20	CB
140	61.2917	61	17.50	-114.4167	-114	25	II	20	CB
152	61.6250	61	37.50	-114.2500	-114	15	II	20	CB
153	61.5417	61	32.50	-114.2500	-114	15	II	20	CB
154	61.4583	61	27.50	-114.2500	-114	15	II	20	CB
155	61.3750	61	22.50	-114.2500	-114	15	II	20	CB

Cont. Appendix A

Grid	Latitude (N)			Longitude (W)			FMA	Area code	Basin
	Decimal	Degree	Minute	Decimal	Degree	Minute			
168	61.5417	61	32.50	-114.0833	-114	5	II	20	CB
169	61.4583	61	27.50	-114.0833	-114	5	II	20	CB
170	61.3750	61	22.50	-114.0833	-114	5	II	20	CB
184	61.4583	61	27.50	-113.9167	-113	55	II	20	CB
185	61.3750	61	22.50	-113.9167	-113	55	II	20	CB
198	61.4583	61	27.50	-113.7500	-113	45	II	20	CB
199	61.3750	61	22.50	-113.7500	-113	45	II	20	CB
75	61.1250	61	7.50	-115.0833	-115	5	III	30	CB
90	61.2083	61	12.50	-114.9167	-114	55	III	30	CB
91	61.1250	61	7.50	-114.9167	-114	55	III	30	CB
92	61.0417	61	2.50	-114.9167	-114	55	III	30	CB
107	61.2083	61	12.50	-114.7500	-114	45	III	30	CB
108	61.1250	61	7.50	-114.7500	-114	45	III	30	CB
109	61.0417	61	2.50	-114.7500	-114	45	III	30	CB
110	60.9583	60	57.50	-114.7500	-114	45	III	30	CB
124	61.2083	61	12.50	-114.5833	-114	35	III	30	CB
125	61.1250	61	7.50	-114.5833	-114	35	III	30	CB
126	61.0417	61	2.50	-114.5833	-114	35	III	30	CB
127	60.9583	60	57.50	-114.5833	-114	35	III	30	CB
141	61.2083	61	12.50	-114.4167	-114	25	III	30	CB
142	61.1250	61	7.50	-114.4167	-114	25	III	30	CB
143	61.0417	61	2.50	-114.4167	-114	25	III	30	CB
144	60.9667	60	58.00	-114.4167	-114	25	III	30	CB
156	61.2917	61	17.50	-114.2500	-114	15	III	30	CB
157	61.2083	61	12.50	-114.2500	-114	15	III	30	CB
158	61.1250	61	7.50	-114.2500	-114	15	III	30	CB
159	61.0417	61	2.50	-114.2500	-114	15	III	30	CB
171	61.2917	61	17.50	-114.0833	-114	5	III	30	CB
172	61.2083	61	12.50	-114.0833	-114	5	III	30	CB
173	61.1250	61	7.50	-114.0833	-114	5	III	30	CB
174	61.0417	61	2.50	-114.0833	-114	5	III	30	CB
175	61.0000	61	0.00	-114.0833	-114	5	III	30	CB
186	61.2917	61	17.50	-113.9167	-113	55	III	30	CB
187	61.2083	61	12.50	-113.9167	-113	55	III	30	CB
188	61.1250	61	7.50	-113.9167	-113	55	III	30	CB
189	61.0417	61	2.50	-113.9167	-113	55	III	30	CB
190	61.0000	61	0.00	-113.9167	-113	55	III	30	CB
200	61.2917	61	17.50	-113.7500	-113	45	III	30	CB
201	61.2083	61	12.50	-113.7500	-113	45	III	30	CB
202	61.1250	61	7.50	-113.7500	-113	45	III	30	CB
203	61.0417	61	2.50	-113.7500	-113	45	III	30	CB
211	61.3750	61	22.50	-113.5833	-113	35	III	30	CB
51	62.3750	62	22.50	-115.2500	-115	15	IV	40	NB
52	62.2917	62	17.50	-115.2500	-115	15	IV	40	NB
53	62.2417	62	14.50	-115.2500	-115	15	IV	40	NB
65	62.3750	62	22.50	-115.0833	-115	5	IV	40	NB
66	62.2917	62	17.50	-115.0833	-115	5	IV	40	NB
67	62.2167	62	13.00	-115.0833	-115	5	IV	40	NB

Cont. Appendix A

Grid	Latitude (N)			Longitude (W)			FMA	Area code	Basin
	Decimal	Degree	Minute	Decimal	Degree	Minute			
79	62.3750	62	22.50	-114.9167	-114	55	IV	40	NB
80	62.2917	62	17.50	-114.9167	-114	55	IV	40	NB
81	62.2083	62	12.50	-114.9167	-114	55	IV	40	NB
82	62.1250	62	7.50	-114.9167	-114	55	IV	40	NB
83	62.0583	62	3.50	-114.9167	-114	55	IV	40	NB
95	62.3500	62	21.00	-114.7500	-114	45	IV	40	NB
96	62.2917	62	17.50	-114.7500	-114	45	IV	40	NB
97	62.2083	62	12.50	-114.7500	-114	45	IV	40	NB
98	62.1250	62	7.50	-114.7500	-114	45	IV	40	NB
99	62.0417	62	2.50	-114.7500	-114	45	IV	40	NB
100	61.9583	61	57.50	-114.7500	-114	45	IV	40	NB
111	62.2917	62	17.50	-114.5833	-114	35	IV	40	NB
112	62.2083	62	12.50	-114.5833	-114	35	IV	40	NB
113	62.1250	62	7.50	-114.5833	-114	35	IV	40	NB
114	62.0417	62	2.50	-114.5833	-114	35	IV	40	NB
115	61.9583	61	57.50	-114.5833	-114	35	IV	40	NB
116	61.8750	61	52.50	-114.5833	-114	35	IV	40	NB
117	61.7917	61	47.50	-114.5833	-114	35	IV	40	NB
128	62.2917	62	17.50	-114.4167	-114	25	IV	40	NB
129	62.2083	62	12.50	-114.4167	-114	25	IV	40	NB
130	62.1250	62	7.50	-114.4167	-114	25	IV	40	NB
131	62.0417	62	2.50	-114.4167	-114	25	IV	40	NB
132	61.9583	61	57.50	-114.4167	-114	25	IV	40	NB
133	61.8750	61	52.50	-114.4167	-114	25	IV	40	NB
134	61.7917	61	47.50	-114.4167	-114	25	IV	40	NB
135	61.7083	61	42.50	-114.4167	-114	25	IV	40	NB
145	62.2083	62	12.50	-114.2500	-114	15	IV	40	NB
146	62.1250	62	7.50	-114.2500	-114	15	IV	40	NB
147	62.0417	62	2.50	-114.2500	-114	15	IV	40	NB
148	61.9583	61	57.50	-114.2500	-114	15	IV	40	NB
149	61.8750	61	52.50	-114.2500	-114	15	IV	40	NB
150	61.7917	61	47.50	-114.2500	-114	15	IV	40	NB
151	61.7083	61	42.50	-114.2500	-114	15	IV	40	NB
160	62.2000	62	12.00	-114.0833	-114	5	IV	40	NB
161	62.1250	62	7.50	-114.0833	-114	5	IV	40	NB
162	62.0417	62	2.50	-114.0833	-114	5	IV	40	NB
163	61.9583	61	57.50	-114.0833	-114	5	IV	40	NB
164	61.8750	61	52.50	-114.0833	-114	5	IV	40	NB
165	61.7917	61	47.50	-114.0833	-114	5	IV	40	NB
166	61.7083	61	42.50	-114.0833	-114	5	IV	40	NB
167	61.6250	61	37.50	-114.0833	-114	5	IV	40	NB
176	62.1250	62	7.50	-113.9167	-113	55	IV	40	NB
177	62.0417	62	2.50	-113.9167	-113	55	IV	40	NB
178	61.9583	61	57.50	-113.9167	-113	55	IV	40	NB
179	61.8750	61	52.50	-113.9167	-113	55	IV	40	NB
180	61.7917	61	47.50	-113.9167	-113	55	IV	40	NB
181	61.7083	61	42.50	-113.9167	-113	55	IV	40	NB
182	61.6250	61	37.50	-113.9167	-113	55	IV	40	NB
183	61.5417	61	32.50	-113.9167	-113	55	IV	40	NB
191	62.0417	62	2.50	-113.7500	-113	45	IV	40	NB
192	61.9583	61	57.50	-113.7500	-113	45	IV	40	NB

Cont. Appendix A.

Grid	Latitude (N)			Longitude (W)			FMA	Area code	Basin
	Decimal	Degree	Minute	Decimal	Degree	Minute			
193	61.8750	61	52.50	-113.7500	-113	45	IV	40	NB
194	61.7917	61	47.50	-113.7500	-113	45	IV	40	NB
195	61.7083	61	42.50	-113.7500	-113	45	IV	40	NB
179	61.8750	61	52.50	-113.9167	-113	55	IV	40	NB
180	61.7917	61	47.50	-113.9167	-113	55	IV	40	NB
181	61.7083	61	42.50	-113.9167	-113	55	IV	40	NB
182	61.6250	61	37.50	-113.9167	-113	55	IV	40	NB
183	61.5417	61	32.50	-113.9167	-113	55	IV	40	NB
191	62.0417	62	2.50	-113.7500	-113	45	IV	40	NB
192	61.9583	61	57.50	-113.7500	-113	45	IV	40	NB
193	61.8750	61	52.50	-113.7500	-113	45	IV	40	NB
194	61.7917	61	47.50	-113.7500	-113	45	IV	40	NB
195	61.7083	61	42.50	-113.7500	-113	45	IV	40	NB
196	61.6250	61	37.50	-113.7500	-113	45	IV	40	NB
197	61.5417	61	32.50	-113.7500	-113	45	IV	40	NB
204	61.9583	61	57.50	-113.5833	-113	35	IV	40	NB
205	61.8750	61	52.50	-113.5833	-113	35	IV	40	NB
206	61.7917	61	47.50	-113.5833	-113	35	IV	40	NB
207	61.7083	61	42.50	-113.5833	-113	35	IV	40	NB
208	61.6250	61	37.50	-113.5833	-113	35	IV	40	NB
209	61.5417	61	32.50	-113.5833	-113	35	IV	40	NB
210	61.4583	61	27.50	-113.5833	-113	35	IV	40	NB
212	61.9583	61	57.50	-113.4167	-113	25	V	50	NB
213	61.8750	61	52.50	-113.4167	-113	25	V	50	NB
214	61.7917	61	47.50	-113.4167	-113	25	V	50	NB
215	61.7083	61	42.50	-113.4167	-113	25	V	50	NB
216	61.6250	61	37.50	-113.4167	-113	25	V	50	NB
217	61.5417	61	32.50	-113.4167	-113	25	V	50	NB
218	61.4583	61	27.50	-113.4167	-113	25	V	50	NB
219	61.9583	61	57.50	-113.2500	-113	15	V	50	NB
220	61.8750	61	52.50	-113.2500	-113	15	V	50	NB
221	61.7917	61	47.50	-113.2500	-113	15	V	50	NB
222	61.7083	61	42.50	-113.2500	-113	15	V	50	NB
223	61.6250	61	37.50	-113.2500	-113	15	V	50	NB
224	61.5417	61	32.50	-113.2500	-113	15	V	50	NB
225	61.4750	61	28.50	-113.2500	-113	15	V	50	NB
226	61.9583	61	57.50	-113.0833	-113	5	V	50	NB
227	61.8750	61	52.50	-113.0833	-113	5	V	50	NB
228	61.7917	61	47.50	-113.0833	-113	5	V	50	NB
229	61.7083	61	42.50	-113.0833	-113	5	V	50	NB
230	61.6250	61	37.50	-113.0833	-113	5	V	50	NB
231	61.5583	61	33.50	-113.0833	-113	5	V	50	NB
232	61.5083	61	30.50	-113.0833	-113	5	V	50	NB
233	61.9583	61	57.50	-112.9167	-112	55	V	50	NB
234	61.8750	61	52.50	-112.9167	-112	55	V	50	NB
235	61.6000	61	36.00	-112.9167	-112	55	V	50	NB
236	61.5250	61	31.50	-112.9167	-112	55	V	50	NB
237	61.4583	61	27.50	-112.9167	-112	55	V	50	NB
238	62.0417	61	62.50	-112.7500	-112	45	V	50	NB
239	61.9667	61	58.00	-112.7500	-112	45	V	50	NB
240	61.8750	61	52.50	-112.7500	-112	45	V	50	NB
241	61.5417	61	32.50	-112.7500	-112	45	V	50	NB
242	61.4583	61	27.50	-112.7500	-112	45	V	50	NB
243	62.0417	62	2.50	-112.5833	-112	35	V	50	NB
244	61.9000	61	54.00	-112.5833	-112	35	V	50	NB
245	61.5417	61	32.50	-112.5833	-112	35	V	50	NB

Appendix B. *Total catch as individuals and weight of fish caught with experimental gillnets in the Western Basin (FMAs IW and IE) of Great Slave Lake, 2011 – 2016.*

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/19/2011	IW	11	7.2	bot	7.2	LCK	3	220.0
7/19/2011	IW	11	7.2	bot	7.2	LKH	4	1060.0
7/19/2011	IW	11	7.2	bot	7.2	LKWF	15	13420.0
7/19/2011	IW	11	7.2	bot	7.2	LNSK	4	15.0
7/19/2011	IW	11	7.2	bot	7.2	NPK	13	17660.0
7/19/2011	IW	11	7.2	bot	7.2	NSSBK	1	1.0
7/19/2011	IW	11	7.2	bot	7.2	SPT	1	6.0
7/19/2011	IW	11	7.2	bot	7.2	TP	9	41.0
7/26/2011	IW	11	14.9	bot	14.9	BBT	4	2990.0
7/26/2011	IW	11	14.9	bot	14.9	LCK	345	6923.3
7/26/2011	IW	11	14.9	bot	14.9	LKH	8	320.0
7/26/2011	IW	11	14.9	bot	14.9	LKWF	49	35643.3
8/9/2011	IW	11	14.9	bot	14.9	BBT	1	1500.0
8/9/2011	IW	11	14.9	bot	14.9	GDI	1	1.0
8/9/2011	IW	11	14.9	bot	14.9	LCK	8	542.0
8/9/2011	IW	11	14.9	bot	14.9	LKH	66	952.5
8/9/2011	IW	11	14.9	bot	14.9	LKWF	123	59968.3
8/9/2011	IW	11	14.9	bot	14.9	LNSK	18	11760.0
8/9/2011	IW	11	14.9	bot	14.9	NSSBK	3	4.0
8/9/2011	IW	11	14.9	bot	14.9	RDWF	1	200.0
8/9/2011	IW	11	14.9	bot	14.9	TP	94	921.0
8/9/2011	IW	11	14.9	bot	14.9	WY	1	1070.0
8/3/2011	IW	11	10.1	bot	10.1	BBT	1	1148.0
8/3/2011	IW	11	10.1	bot	10.1	INCO	1	3280.0
8/3/2011	IW	11	10.1	bot	10.1	LCK	37	2780.0
8/3/2011	IW	11	10.1	bot	10.1	LKH	100	8880.0
8/3/2011	IW	11	10.1	bot	10.1	LKWF	42	21303.3
8/3/2011	IW	11	10.1	bot	10.1	LNSK	7	9660.0
8/3/2011	IW	11	10.1	bot	10.1	TP	5	40.0
7/18/2011	IW	11	15.2	top	5	LCK	14	319.0
7/18/2011	IW	11	15.2	bot	15.2	LCK	32	1420.0
7/18/2011	IW	11	15.2	bot	15.2	LKH	4	560.0
7/18/2011	IW	11	15.2	bot	15.2	LKWF	51	29929.0
7/18/2011	IW	11	15.2	bot	15.2	TP	3	40.0
8/4/2011	IW	11	17.5	bot	17.5	BBT	2	2560.0
8/4/2011	IW	11	17.5	bot	17.5	LCK	14	480.0
8/4/2011	IW	11	17.5	bot	17.5	LKH	38	4520.0
8/4/2011	IW	11	17.5	bot	17.5	LKWF	30	16660.0
8/4/2011	IW	11	17.5	bot	17.5	LNSK	3	4420.0
7/26/2011	IW	11	14.3	top	5	BBT	1	1280.0
7/26/2011	IW	11	14.3	top	5	INCO	1	1800.0
7/26/2011	IW	11	14.3	top	5	LCK	82	1792.4
7/26/2011	IW	11	14.3	top	5	LKWF	17	17420.0
7/26/2011	IW	11	14.3	top	5	LNSK	1	1240.0
7/26/2011	IW	11	14.3	top	5	NPK	4	5900.0
8/10/2011	IW	11	14.3	bot	14.3	BBT	5	2486.5
8/10/2011	IW	11	14.3	bot	14.3	LCK	58	2656.3
8/10/2011	IW	11	14.3	bot	14.3	LKH	17	2193.0
8/10/2011	IW	11	14.3	bot	14.3	LKT	1	3930.0
8/10/2011	IW	11	14.3	bot	14.3	LKWF	27	20456.7

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/10/2011	IW	11	14.3	bot	14.3	LNSK	39	18230.0
8/10/2011	IW	11	14.3	bot	14.3	NPK	3	3456.0
8/10/2011	IW	11	14.3	bot	14.3	TP	2	25.0
7/27/2012	IW	11	9.4	bot	9.4	BBT	1	5926.0
7/27/2012	IW	11	9.4	bot	9.4	INCO	2	16475.0
7/27/2012	IW	11	9.4	bot	9.4	LCK	7	95.0
7/27/2012	IW	11	9.4	bot	9.4	LKT	2	5.0
7/27/2012	IW	11	9.4	bot	9.4	LKWF	88	27304.5
7/27/2012	IW	11	9.4	bot	9.4	LNSK	19	7842.1
7/27/2012	IW	11	9.4	bot	9.4	NPK	35	63143.0
7/27/2012	IW	11	9.4	bot	9.4	NSSBK	3	3.5
7/27/2012	IW	11	9.4	bot	9.4	TP	89	175.0
7/27/2012	IW	11	9.4	bot	9.4	WSK	13	36580.0
8/8/2012	IW	11	4.9	bot	4.9	LCK	1	5.5
8/8/2012	IW	11	4.9	bot	4.9	LKH	1	4.0
8/8/2012	IW	11	4.9	bot	4.9	LKWF	32	25505.5
8/8/2012	IW	11	4.9	bot	4.9	LNSK	1	2000.0
8/8/2012	IW	11	4.9	bot	4.9	NPK	8	13080.0
8/8/2012	IW	11	4.9	bot	4.9	TP	3	10.5
8/8/2012	IW	11	4.9	bot	4.9	WSK	12	15281.5
8/8/2012	IW	11	4.9	bot	4.9	WY	7	6900.0
8/8/2012	IW	11	2.6	bot	2.6	LCK	12	62.5
8/8/2012	IW	11	2.6	bot	2.6	LKH	10	755.0
8/8/2012	IW	11	2.6	bot	2.6	LKWF	47	24614.0
8/8/2012	IW	11	2.6	bot	2.6	NPK	22	20020.5
8/8/2012	IW	11	2.6	bot	2.6	NSSBK	15	17.5
8/8/2012	IW	11	2.6	bot	2.6	TP	1	4.5
8/8/2012	IW	11	2.6	bot	2.6	WSK	20	34811.0
8/8/2012	IW	11	2.6	bot	2.6	WY	3	944.0
8/9/2012	IW	11	8.8	bot	8.8	LCK	47	1991.5
8/9/2012	IW	11	8.8	bot	8.8	LKH	3	438.0
8/9/2012	IW	11	8.8	bot	8.8	LKWF	48	11349.0
8/9/2012	IW	11	8.8	bot	8.8	LNSK	9	14680.0
8/9/2012	IW	11	8.8	bot	8.8	NPK	21	24652.5
8/9/2012	IW	11	8.8	bot	8.8	NSSBK	6	8.0
8/9/2012	IW	11	8.8	bot	8.8	TP	24	38.5
8/9/2012	IW	11	8.8	bot	8.8	WSK	5	112.0
8/9/2012	IW	11	8.8	bot	8.8	WY	7	3240.0
7/24/2012	IW	11	7.3	bot	7.3	LCK	1	9.0
7/24/2012	IW	11	7.3	bot	7.3	LKWF	61	19792.5
7/24/2012	IW	11	7.3	bot	7.3	LNSK	6	10340.0
7/24/2012	IW	11	7.3	bot	7.3	NPK	11	17900.0
7/24/2012	IW	11	7.3	bot	7.3	NSSBK	19	32.5
7/24/2012	IW	11	7.3	bot	7.3	TP	28	170.5
7/24/2012	IW	11	7.3	bot	7.3	WSK	2	3400.0
8/2/2012	IW	11	17.4	top	5	LCK	29	400.0
8/2/2012	IW	11	17.4	top	5	LNSK	21	18680.0
8/2/2012	IW	11	17.4	top	5	NPK	1	2080.0
7/8/2013	IW	11	9	bot	9	LCK	58	2060.0
7/8/2013	IW	11	9	bot	9	LKH	1	33.0
7/8/2013	IW	11	9	bot	9	LKWF	20	19155.0
7/8/2013	IW	11	9	bot	9	LNSK	17	22623.7

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/8/2013	IW	11	9	bot	9	NPK	13	19020.0
7/8/2013	IW	11	9	bot	9	RDWF	2	88.7
7/8/2013	IW	11	9	bot	9	TP	4	49.2
7/8/2013	IW	11	9.1	top	5	LCK	3	93.0
7/8/2013	IW	11	9.1	top	5	LKWF	6	7330.0
7/8/2013	IW	11	9.1	top	5	LNSK	17	29445.0
7/8/2013	IW	11	9.1	top	5	NPK	4	8840.0
7/9/2013	IW	11	7	bot	7	LCK	3	63.0
7/9/2013	IW	11	7	bot	7	LKWF	34	21678.5
7/9/2013	IW	11	7	bot	7	LNSK	22	44125.0
7/9/2013	IW	11	7	bot	7	NPK	31	50190.0
7/9/2013	IW	11	7	bot	7	NSSBK	24	24.5
7/9/2013	IW	11	7	bot	7	TP	21	79.0
7/9/2013	IW	11	13.1	top	5	LCK	4	144.0
7/9/2013	IW	11	13.1	top	5	LKH	1	50.0
7/9/2013	IW	11	13.1	top	5	LKT	2	5810.0
7/5/2013	IW	11	17	top	5	INCO	2	13320.0
7/5/2013	IW	11	17	top	5	LCK	12	296.0
7/5/2013	IW	11	17	top	5	LKT	1	4020.0
7/5/2013	IW	11	17	top	5	LKWF	1	1010.0
8/14/2014	IW	11	4.5	bot	4.5	LCK	1	160.0
8/14/2014	IW	11	4.5	bot	4.5	LKH	3	46.0
8/14/2014	IW	11	4.5	bot	4.5	LKWF	8	6340.0
8/14/2014	IW	11	4.5	bot	4.5	LNSK	10	22410.0
8/14/2014	IW	11	4.5	bot	4.5	NPK	12	15828.0
8/14/2014	IW	11	4.5	bot	4.5	NSSBK	1	3.0
8/14/2014	IW	11	4.5	bot	4.5	TP	2	15.0
8/14/2014	IW	11	4.5	bot	4.5	WSK	6	12855.0
8/14/2014	IW	11	4.5	bot	4.5	WY	7	6175.0
8/5/2014	IW	11	8.8	bot	8.8	BBT	2	2255.0
8/5/2014	IW	11	8.8	bot	8.8	LCK	2	60.0
8/5/2014	IW	11	8.8	bot	8.8	LKWF	13	6625.0
8/5/2014	IW	11	8.8	bot	8.8	LNSK	9	2485.0
8/5/2014	IW	11	8.8	bot	8.8	NPK	1	1050.0
8/5/2014	IW	11	8.8	bot	8.8	NSSBK	1	1.5
8/5/2014	IW	11	8.8	bot	8.8	TP	6	41.5
7/23/2014	IW	11	12.8	bot	12.8	INCO	1	3715.0
7/23/2014	IW	11	12.8	top	5	LCK	83	1355.0
7/23/2014	IW	11	12.8	bot	12.8	LKT	3	7645.0
7/23/2014	IW	11	12.8	bot	12.8	LKWF	29	34725.0
7/23/2014	IW	11	12.8	top	5	LNSK	3	4870.0
7/23/2014	IW	11	12.8	top	5	NPK	9	14045.0
7/23/2014	IW	11	17.4	top	5	LCK	5	100.0
7/23/2014	IW	11	17.4	top	5	LKWF	1	410.0
7/23/2014	IW	11	17.4	bot	17.4	LKWF	5	4785.0
8/10/2015	IW	11	9.1	bot	9.1	LKH	15	40.0
8/10/2015	IW	11	9.1	bot	9.1	LKWF	21	13178.0
8/10/2015	IW	11	9.1	bot	9.1	LNSK	4	2867.0
8/10/2015	IW	11	9.1	bot	9.1	NPK	13	16385.0
8/10/2015	IW	11	9.1	bot	9.1	SPT	87	198.0
8/10/2015	IW	11	9.1	bot	9.1	TP	54	116.0
8/10/2015	IW	11	9.1	bot	9.1	WSK	1	1610.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/10/2015	IW	11	9.1	bot	9.1	WY	18	9954.5
8/10/2015	IW	11	9.4	bot	9.4	LKWF	38	22585.0
8/10/2015	IW	11	9.4	bot	9.4	LNSK	18	3319.0
8/10/2015	IW	11	9.4	bot	9.4	NPK	9	12060.0
8/10/2015	IW	11	9.4	bot	9.4	NSSBK	1	1.5
8/10/2015	IW	11	9.4	bot	9.4	SPT	81	250.5
8/10/2015	IW	11	9.4	bot	9.4	TP	19	47.0
8/10/2015	IW	11	9.4	bot	9.4	WSK	15	27253.0
8/10/2015	IW	11	9.4	bot	9.4	WY	8	11500.0
7/16/2015	IW	11	6.6	bot	6.3	LKH	22	145.0
7/16/2015	IW	11	6.6	bot	6.3	LKWF	5	1040.0
7/16/2015	IW	11	6.6	bot	6.3	LNSK	2	985.0
7/16/2015	IW	11	6.6	bot	6.3	NPK	1	1200.0
7/16/2015	IW	11	6.6	bot	6.3	WSK	1	155.0
7/8/2015	IW	11	7	bot	7	LKH	15	505.0
7/8/2015	IW	11	7	bot	7	LKWF	20	16845.0
7/8/2015	IW	11	7	bot	7	LNSK	4	4825.0
7/8/2015	IW	11	7	bot	7	NPK	4	5170.0
7/8/2015	IW	11	13.1	top	5	LKH	11	90.0
7/8/2015	IW	11	13.1	top	5	LKT	1	3485.0
7/8/2015	IW	11	13.1	top	5	LKWF	16	14105.0
7/8/2015	IW	11	13.1	top	5	LNSK	1	1160.0
7/8/2015	IW	11	13.1	top	5	NPK	4	6100.0
6/30/2015	IW	11	17.4	top	5	LKH	10	231.0
7/27/2016	IW	11	4.2	bot	4.2	LCK	1	285.0
7/27/2016	IW	11	4.2	bot	4.2	LKWF	22	14191.0
7/27/2016	IW	11	4.2	bot	4.2	LNSK	6	10935.0
7/27/2016	IW	11	4.2	bot	4.2	NPK	12	27046.0
7/27/2016	IW	11	4.2	bot	4.2	NSSBK	6	8.0
7/27/2016	IW	11	4.2	bot	4.2	SPT	1	2.0
7/27/2016	IW	11	4.2	bot	4.2	TP	9	15.0
7/27/2016	IW	11	4.2	bot	4.2	WSK	7	17830.0
7/27/2016	IW	11	4.2	bot	4.2	WY	1	1460.0
7/26/2016	IW	11	4.3	bot	4.3	LKWF	57	32880.0
7/26/2016	IW	11	4.3	bot	4.3	NPK	7	12400.0
7/26/2016	IW	11	4.3	bot	4.3	TP	1	13.0
7/26/2016	IW	11	4.3	bot	4.3	WSK	4	7840.0
7/26/2016	IW	11	4.3	bot	4.3	WY	9	3800.0
7/28/2016	IW	11	9	bot	9	LKWF	22	7353.0
7/28/2016	IW	11	9	bot	9	LNSK	8	82.0
7/28/2016	IW	11	9	bot	9	NPK	19	23820.0
7/28/2016	IW	11	9	bot	9	SPT	38	114.0
7/28/2016	IW	11	9	bot	9	TP	17	22.0
7/28/2016	IW	11	9	bot	9	WSK	7	12960.0
7/28/2016	IW	11	9	bot	9	WY	8	7983.0
7/28/2016	IW	11	9	bot	9	BBT	2	2.0
7/28/2016	IW	11	9	bot	9	LKT	6	50.0
7/28/2016	IW	11	9	bot	9	LKWF	5	2056.0
7/28/2016	IW	11	9	bot	9	LNSK	1	5.0
7/28/2016	IW	11	9	bot	9	NPD	9	51.0
7/28/2016	IW	11	9	bot	9	NPK	5	7700.0
7/28/2016	IW	11	9	bot	9	NSSBK	5	6.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/28/2016	IW	11	9	bot	9	SPT	9	33.0
7/28/2016	IW	11	9	bot	9	TP	35	122.0
7/28/2016	IW	11	9	bot	9	WSK	4	7312.0
7/28/2016	IW	11	9	bot	9	WY	1	1100.0
7/29/2016	IW	11	6.2	bot	6.2	BBT	1	3.0
7/29/2016	IW	11	6.2	bot	6.2	LKWF	14	918.0
7/29/2016	IW	11	6.2	bot	6.2	LNSK	1	1060.0
7/29/2016	IW	11	6.2	bot	6.2	NPK	8	13015.0
7/29/2016	IW	11	6.2	bot	6.2	SPT	85	280.0
7/29/2016	IW	11	6.2	bot	6.2	TP	51	129.0
7/29/2016	IW	11	6.2	bot	6.2	WSK	6	1188.0
7/29/2016	IW	11	6.2	bot	6.2	WY	15	4769.0
7/29/2016	IW	11	7	bot	7	BBT	1	7.0
7/29/2016	IW	11	7	bot	7	LKWF	34	19220.0
7/29/2016	IW	11	7	bot	7	LNSK	1	8.0
7/29/2016	IW	11	7	bot	7	NPK	9	15840.0
7/29/2016	IW	11	7	bot	7	NSSBK	2	3.0
7/29/2016	IW	11	7	bot	7	SPT	41	125.0
7/29/2016	IW	11	7	bot	7	TP	10	31.0
7/29/2016	IW	11	7	bot	7	WSK	8	8701.0
7/29/2016	IW	11	7	bot	7	WY	10	11940.0
7/29/2016	IW	11	13	top	5	LCK	11	24.0
7/29/2016	IW	11	13	top	5	LKH	1	35.0
7/29/2016	IW	11	13	top	5	NPK	3	4920.0
7/29/2016	IW	11	13	top	5	NSSBK	2	2.0
7/29/2016	IW	11	13	top	5	WY	2	192.0
8/5/2016	IW	11	17	top	5	LCK	8	15.0
8/5/2016	IW	11	17	top	5	LKH	2	44.0
8/5/2016	IW	11	17	top	5	LNSK	23	27260.0
8/5/2016	IW	11	17	top	5	NPD	1	3.0
8/5/2016	IW	11	17	top	5	NSSBK	3	4.0
7/20/2011	IE	12	9.2	bot	9.2	BBT	1	900.0
7/20/2011	IE	12	9.2	bot	9.2	LCK	10	480.0
7/20/2011	IE	12	9.2	bot	9.2	LKH	4	376.0
7/20/2011	IE	12	9.2	bot	9.2	LKWF	8	5180.0
7/20/2011	IE	12	9.2	bot	9.2	LNSK	4	3832.0
7/20/2011	IE	12	9.2	bot	9.2	NPK	3	3540.0
7/20/2011	IE	12	9.2	bot	9.2	NSSBK	2	15.0
7/20/2011	IE	12	9.2	bot	9.2	SPT	1	5.0
7/20/2011	IE	12	9.2	bot	9.2	TP	8	45.0
8/12/2011	IE	12	13.8	bot	13.8	BBT	1	1000.0
8/12/2011	IE	12	13.8	bot	13.8	LCK	14	167.0
8/12/2011	IE	12	13.8	bot	13.8	LKH	59	1235.0
8/12/2011	IE	12	13.8	bot	13.8	LKWF	21	15075.0
8/12/2011	IE	12	13.8	bot	13.8	LNSK	3	5760.0
8/12/2011	IE	12	13.8	bot	13.8	NPD	1	5.0
8/12/2011	IE	12	13.8	bot	13.8	SJCK	17	1805.0
8/12/2011	IE	12	13.8	bot	13.8	WSK	1	1320.0
8/10/2011	IE	12	19.8	top	5	BBT	3	2740.0
8/10/2011	IE	12	19.8	top	5	LCK	64	3388.0
8/10/2011	IE	12	19.8	top	5	LKH	104	5991.0
8/10/2011	IE	12	19.8	top	5	LKWF	18	12020.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/25/2011	IE	12	18.6	bot	18.6	BBT	5	3530.0
7/25/2011	IE	12	18.6	bot	18.6	LCK	6	405.0
7/25/2011	IE	12	18.6	bot	18.6	LKH	105	2816.5
7/25/2011	IE	12	18.6	bot	18.6	LKWF	44	23337.9
7/25/2011	IE	12	18.6	bot	18.6	LNSK	5	4910.0
7/28/2011	IE	12	19.2	top	5	BBT	3	1480.0
7/28/2011	IE	12	19.2	bot	19.2	BBT	9	12490.0
7/28/2011	IE	12	19.2	top	5	INCO	1	7300.0
7/28/2011	IE	12	19.2	bot	19.2	LCK	46	4131.8
7/28/2011	IE	12	19.2	top	5	LCK	8	820.0
7/28/2011	IE	12	19.2	bot	19.2	LKH	5	1140.0
7/28/2011	IE	12	19.2	bot	19.2	LKWF	54	30326.4
7/28/2011	IE	12	19.2	top	5	LKWF	16	11760.0
7/28/2011	IE	12	19.2	top	5	LNSK	8	7160.0
7/28/2011	IE	12	19.2	bot	19.2	LNSK	2	2160.0
7/28/2011	IE	12	19.2	top	5	WY	1	1440.0
7/20/2011	IE	12	12.2	bot	12.2	BBT	1	1340.0
7/20/2011	IE	12	12.2	bot	12.2	GDI	1	540.0
7/20/2011	IE	12	12.2	top	5	INCO	3	9740.0
7/20/2011	IE	12	12.2	bot	12.2	INCO	1	3740.0
7/20/2011	IE	12	12.2	bot	12.2	LCK	189	3301.0
7/20/2011	IE	12	12.2	top	5	LCK	701	15650.1
7/20/2011	IE	12	12.2	bot	12.2	LKH	6	529.0
7/20/2011	IE	12	12.2	top	5	LKH	13	2684.0
7/20/2011	IE	12	12.2	bot	12.2	LKWF	16	8590.0
7/20/2011	IE	12	12.2	top	5	LKWF	26	15191.0
7/20/2011	IE	12	12.2	bot	12.2	LNSK	39	45440.0
7/20/2011	IE	12	12.2	top	5	LNSK	12	14860.0
7/20/2011	IE	12	12.2	top	5	NPK	3	5180.0
7/20/2011	IE	12	12.2	bot	12.2	NPK	5	8980.0
7/20/2011	IE	12	12.2	bot	12.2	TP	31	245.0
7/20/2011	IE	12	12.2	top	5	WY	1	940.0
7/20/2011	IE	12	12.2	bot	12.2	WY	1	1880.0
8/12/2011	IE	12	26.8	top	5	BBT	2	810.0
8/12/2011	IE	12	26.8	top	5	LCK	11	520.0
8/12/2011	IE	12	26.8	top	5	LKH	29	3510.0
8/12/2011	IE	12	26.8	top	5	LKWF	38	22031.7
8/9/2011	IE	12	20	top	5	BBT	4	4060.0
8/9/2011	IE	12	20	top	5	LCK	78	2432.0
8/9/2011	IE	12	20	top	5	LKH	1	150.0
8/9/2011	IE	12	20	top	5	LKWF	43	22601.7
8/9/2011	IE	12	20	top	5	LNSK	1	1690.0
7/18/2011	IE	12	12.2	top	5	BBT	2	1680.0
7/18/2011	IE	12	12.2	bot	12.2	BBT	4	3880.0
7/18/2011	IE	12	12.2	bot	12.2	INCO	1	2060.0
7/18/2011	IE	12	12.2	top	5	LCK	622	10964.0
7/18/2011	IE	12	12.2	bot	12.2	LCK	27	1285.0
7/18/2011	IE	12	12.2	top	5	LKH	6	313.9
7/18/2011	IE	12	12.2	bot	12.2	LKH	34	4995.0
7/18/2011	IE	12	12.2	bot	12.2	LKWF	62	31021.6
7/18/2011	IE	12	12.2	top	5	LKWF	90	51210.2
7/18/2011	IE	12	12.2	top	5	LNSK	18	11946.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/18/2011	IE	12	12.2	bot	12.2	LNSK	38	27700.0
7/18/2011	IE	12	12.2	bot	12.2	NPK	1	1820.0
7/18/2011	IE	12	12.2	bot	12.2	TP	18	55.0
7/18/2011	IE	12	12.2	top	5	TP	5	32.1
7/18/2011	IE	12	12.2	top	5	WY	2	2600.0
7/18/2011	IE	12	12.2	bot	12.2	WY	1	1480.0
7/19/2011	IE	12	35.1	top	5	INCO	1	4860.0
7/19/2011	IE	12	35.1	top	5	LCK	9	1860.0
7/19/2011	IE	12	35.1	top	5	LKH	17	8480.0
7/19/2011	IE	12	35.1	top	5	LKWF	12	15200.0
8/3/2011	IE	12	29	top	5	BBT	1	960.0
8/3/2011	IE	12	29	top	5	INCO	2	18440.0
8/3/2011	IE	12	29	top	5	LCK	286	24602.6
8/3/2011	IE	12	29	top	5	LKH	1	69.0
8/3/2011	IE	12	29	top	5	LKWF	72	41743.3
7/14/2011	IE	12	23.4	bot	23.4	BBT	9	9770.0
7/14/2011	IE	12	23.4	bot	23.4	INCO	1	5140.0
7/14/2011	IE	12	23.4	bot	23.4	LCK	422	9940.0
7/14/2011	IE	12	23.4	top	5	LCK	5	240.0
7/14/2011	IE	12	23.4	bot	23.4	LKH	1	200.0
7/14/2011	IE	12	23.4	top	5	LKH	3	760.0
7/14/2011	IE	12	23.4	bot	23.4	LKT	1	1120.0
7/14/2011	IE	12	23.4	bot	23.4	LKWF	87	34442.0
7/14/2011	IE	12	23.4	top	5	LKWF	21	21130.0
7/14/2011	IE	12	23.4	top	5	LNSK	6	5650.0
7/14/2011	IE	12	23.4	bot	23.4	LNSK	3	3480.0
7/25/2011	IE	12	23.8	top	5	LCK	29	791.0
7/25/2011	IE	12	23.8	top	5	LKH	3	840.0
7/25/2011	IE	12	23.8	top	5	LKWF	10	7960.0
7/25/2011	IE	12	23.8	top	5	LNSK	4	3320.0
7/21/2012	IE	12	9.2	bot	9.2	LCK	10	340.0
7/21/2012	IE	12	9.2	bot	9.2	LKWF	56	11470.0
7/21/2012	IE	12	9.2	bot	9.2	LNSK	11	5515.0
7/21/2012	IE	12	9.2	bot	9.2	NPK	17	24640.0
7/21/2012	IE	12	9.2	bot	9.2	RDWF	3	420.0
7/21/2012	IE	12	9.2	bot	9.2	TP	39	263.0
7/21/2012	IE	12	9.2	bot	9.2	WY	3	2900.0
8/3/2012	IE	12	10.4	bot	10.4	BBT	6	6780.0
8/3/2012	IE	12	10.4	bot	10.4	INCO	1	1820.0
8/3/2012	IE	12	10.4	bot	10.4	LCK	44	420.0
8/3/2012	IE	12	10.4	bot	10.4	LKH	46	3100.0
8/3/2012	IE	12	10.4	bot	10.4	LKWF	45	23260.0
8/3/2012	IE	12	10.4	bot	10.4	LNSK	8	5360.0
8/3/2012	IE	12	10.4	bot	10.4	TP	5	20.0
7/13/2012	IE	12	19.8	top	5	INCO	4	18780.0
7/13/2012	IE	12	19.8	top	5	LCK	156	4760.0
7/13/2012	IE	12	19.8	top	5	LKH	17	1740.0
7/13/2012	IE	12	19.8	top	5	LKWF	6	4649.0
7/13/2012	IE	12	19.8	top	5	LNSK	20	61461.0
7/10/2012	IE	12	31.1	bot	31.1	BBT	9	11491.0
7/10/2012	IE	12	31.1	bot	31.1	LCK	46	2100.0
7/10/2012	IE	12	31.1	bot	31.1	LKH	9	2540.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/10/2012	IE	12	31.1	bot	31.1	LKT	1	250.0
7/10/2012	IE	12	31.1	bot	31.1	LKWF	87	44940.0
7/17/2012	IE	12	12.5	top	5	LCK	894	20920.0
7/17/2012	IE	12	12.5	top	5	LKH	33	1428.0
7/17/2012	IE	12	12.5	top	5	LKWF	4	900.0
7/17/2012	IE	12	12.5	top	5	LNSK	10	44749.0
7/18/2012	IE	12	32.6	bot	32.6	BBT	1	1505.0
7/18/2012	IE	12	32.6	bot	32.6	LCK	57	2600.0
7/18/2012	IE	12	32.6	bot	32.6	LKH	27	2420.0
7/18/2012	IE	12	32.6	bot	32.6	LKWF	67	25760.0
7/31/2012	IE	12	18.4	top	5	BBT	17	17460.0
7/31/2012	IE	12	18.4	bot	18.4	BBT	15	17480.0
7/31/2012	IE	12	18.4	bot	18.4	INCO	2	7950.0
7/31/2012	IE	12	18.4	top	5	INCO	4	17020.0
7/31/2012	IE	12	18.4	bot	18.4	LCK	5	100.0
7/31/2012	IE	12	18.4	top	5	LCK	189	4380.0
7/31/2012	IE	12	18.4	bot	18.4	LKH	30	3920.0
7/31/2012	IE	12	18.4	top	5	LKH	68	11820.0
7/31/2012	IE	12	18.4	bot	18.4	LKWF	47	21880.0
7/31/2012	IE	12	18.4	top	5	LKWF	41	26520.0
7/31/2012	IE	12	18.4	top	5	LNSK	11	10040.0
7/31/2012	IE	12	18.4	bot	18.4	LNSK	6	5980.0
7/31/2012	IE	12	18.4	top	5	WY	1	1280.0
7/12/2012	IE	12	9.9	top	5	BBT	4	6524.0
7/12/2012	IE	12	9.9	top	5	INCO	2	8180.0
7/12/2012	IE	12	9.9	top	5	LCK	23	1080.0
7/12/2012	IE	12	9.9	top	5	LKH	664	11880.0
7/12/2012	IE	12	9.9	top	5	LKT	3	6320.0
7/12/2012	IE	12	9.9	top	5	LKWF	28	17360.0
7/12/2012	IE	12	9.9	top	5	LNSK	84	81224.0
8/16/2012	IE	12	24.1	top	5	BBT	11	11261.0
8/16/2012	IE	12	24.1	bot	24.1	BBT	22	26887.0
8/16/2012	IE	12	24.1	top	5	INCO	1	3850.0
8/16/2012	IE	12	24.1	bot	24.1	LCK	32	1273.0
8/16/2012	IE	12	24.1	top	5	LCK	62	2630.0
8/16/2012	IE	12	24.1	top	5	LKH	791	31791.0
8/16/2012	IE	12	24.1	bot	24.1	LKH	63	12860.0
8/16/2012	IE	12	24.1	bot	24.1	LKT	3	192.5
8/16/2012	IE	12	24.1	top	5	LKT	1	3370.0
8/16/2012	IE	12	24.1	top	5	LKWF	177	63468.0
8/16/2012	IE	12	24.1	bot	24.1	LKWF	143	55000.0
8/16/2012	IE	12	24.1	top	5	LNSK	10	10090.0
8/16/2012	IE	12	24.1	bot	24.1	LNSK	6	8620.0
8/16/2012	IE	12	21	bot	21	BBT	28	26880.0
8/16/2012	IE	12	21	top	5	BBT	18	21580.0
8/16/2012	IE	12	21	bot	21	INCO	2	7570.0
8/16/2012	IE	12	21	bot	21	LCK	48	2070.0
8/16/2012	IE	12	21	top	5	LKH	41	3880.0
8/16/2012	IE	12	21	bot	21	LKH	101	18200.0
8/16/2012	IE	12	21	bot	21	LKT	3	69.5
8/16/2012	IE	12	21	top	5	LKT	3	10360.0
8/16/2012	IE	12	21	bot	21	LKWF	127	53340.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/16/2012	IE	12	21	top	5	LKWF	42	22260.0
8/16/2012	IE	12	21	top	5	LNSK	3	1595.0
8/16/2012	IE	12	21	bot	21	LNSK	16	15190.0
8/6/2013	IE	12	8.8	bot	8.8	BBT	5	6930.0
8/6/2013	IE	12	8.8	bot	8.8	LCK	272	7015.0
8/6/2013	IE	12	8.8	bot	8.8	LKWF	40	10030.0
8/6/2013	IE	12	8.8	bot	8.8	LNSK	9	2250.0
8/6/2013	IE	12	8.8	bot	8.8	NPK	2	2660.0
7/25/2013	IE	12	5.5	bot	5.5	LCK	4	201.5
7/25/2013	IE	12	5.5	bot	5.5	LKWF	22	23304.5
7/25/2013	IE	12	5.5	bot	5.5	LNSK	1	1120.0
7/25/2013	IE	12	5.5	bot	5.5	NPD	1	4.5
7/25/2013	IE	12	5.5	bot	5.5	NPK	6	7215.0
7/25/2013	IE	12	5.5	bot	5.5	NSSBK	6	9.5
7/25/2013	IE	12	5.5	bot	5.5	TP	6	30.0
7/25/2013	IE	12	11	top	5	BBT	1	1465.0
7/25/2013	IE	12	11	top	5	LCK	457	9750.0
7/25/2013	IE	12	11	top	5	LKH	11	1620.0
7/25/2013	IE	12	11	top	5	LKWF	8	3955.0
7/24/2013	IE	12	25	bot	25	BBT	6	5515.0
7/24/2013	IE	12	25	top	5	LCK	16	305.0
7/24/2013	IE	12	25	bot	25	LCK	50	1157.0
7/24/2013	IE	12	25	bot	25	LKH	19	1160.0
7/24/2013	IE	12	25	top	5	LKT	1	2305.0
7/24/2013	IE	12	25	bot	25	LKWF	92	33578.0
7/24/2013	IE	12	25	top	5	SJCK	10	370.0
6/28/2013	IE	12	16.8	top	5	BBT	1	4600.0
6/28/2013	IE	12	16.8	top	5	INCO	2	7000.0
6/28/2013	IE	12	16.8	top	5	LCK	88	3910.0
6/28/2013	IE	12	16.8	top	5	LKH	18	3720.9
6/28/2013	IE	12	16.8	top	5	LKT	2	4522.0
6/28/2013	IE	12	16.8	top	5	LKWF	19	10280.0
7/18/2013	IE	12	32	bot	32	BBT	14	9430.0
7/18/2013	IE	12	32	bot	32	LCK	48	2234.0
7/18/2013	IE	12	32	bot	32	LKH	12	4689.0
7/18/2013	IE	12	32	bot	32	LKWF	58	30105.0
7/11/2013	IE	12	12	top	5	INCO	2	8375.0
7/11/2013	IE	12	12	top	5	LCK	115	2937.5
7/11/2013	IE	12	12	top	5	LKH	2	225.5
7/11/2013	IE	12	12	top	5	LKWF	12	9700.0
7/11/2013	IE	12	12	top	5	LNSK	6	5055.0
7/30/2013	IE	12	16.8	top	5	BBT	3	7910.0
7/30/2013	IE	12	16.8	top	5	INCO	3	7635.0
7/30/2013	IE	12	16.8	top	5	LCK	550	16220.0
7/30/2013	IE	12	16.8	top	5	LKH	9	1455.0
7/30/2013	IE	12	16.8	top	5	LKWF	19	9675.0
7/30/2013	IE	12	16.8	top	5	LNSK	43	48450.0
7/30/2013	IE	12	9.8	bot	9.8	BBT	1	715.0
7/30/2013	IE	12	9.8	bot	9.8	LCK	10	385.0
7/30/2013	IE	12	9.8	bot	9.8	LKH	6	731.0
7/30/2013	IE	12	9.8	bot	9.8	LKWF	42	14315.0
7/30/2013	IE	12	9.8	bot	9.8	LNSK	40	5580.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/30/2013	IE	12	9.8	bot	9.8	NPK	3	8160.0
7/30/2013	IE	12	9.8	bot	9.8	TP	10	15.0
7/16/2013	IE	12	17.1	top	5	INCO	3	12650.0
7/16/2013	IE	12	17.1	top	5	LCK	46	1717.4
7/16/2013	IE	12	17.1	top	5	LKH	7	376.0
7/16/2013	IE	12	17.1	top	5	LKWF	34	10445.0
7/16/2013	IE	12	17.1	top	5	LNSK	11	7360.0
7/16/2013	IE	12	17.1	top	5	SJCK	514	7382.0
7/17/2013	IE	12	17	top	5	BBT	4	2975.0
7/17/2013	IE	12	17	top	5	LCK	64	1313.2
7/17/2013	IE	12	17	top	5	LKWF	55	26880.0
7/17/2013	IE	12	17	top	5	LNSK	10	4046.5
7/17/2013	IE	12	17	top	5	NPK	1	2615.0
7/17/2013	IE	12	17	top	5	NSSBK	5	190.2
7/17/2013	IE	12	17	top	5	SJCK	14	735.0
7/17/2013	IE	12	17	top	5	WY	17	6330.0
7/12/2014	IE	12	9.7	top	5	BBT	3	3460.0
7/12/2014	IE	12	9.7	bot	9.7	INCO	2	7190.0
7/12/2014	IE	12	9.7	top	5	LCK	5	71.0
7/12/2014	IE	12	9.7	top	5	LKWF	18	7320.0
7/12/2014	IE	12	9.7	bot	9.7	LKWF	2	1940.0
7/12/2014	IE	12	9.7	top	5	LNSK	14	1130.0
7/12/2014	IE	12	9.7	top	5	NPK	13	20145.0
7/12/2014	IE	12	9.7	top	5	TP	61	255.0
7/12/2014	IE	12	9.7	top	5	WY	8	1638.0
6/28/2014	IE	12	10.5	top	5	BBT	6	8715.0
6/28/2014	IE	12	10.5	top	5	LCK	318	7950.0
6/28/2014	IE	12	10.5	top	5	LKH	5	1645.0
6/28/2014	IE	12	10.5	top	5	LKWF	8	3195.0
6/28/2014	IE	12	10.5	top	5	LNSK	11	5545.0
6/28/2014	IE	12	10.5	top	5	NPK	6	11235.0
7/29/2014	IE	12	7.2	bot	7.2	BBT	1	420.0
7/29/2014	IE	12	7.2	bot	7.2	LCK	5	168.0
7/29/2014	IE	12	7.2	bot	7.2	LKT	2	3.0
7/29/2014	IE	12	7.2	bot	7.2	LKWF	76	90010.0
7/29/2014	IE	12	7.2	bot	7.2	LNSK	4	3290.0
7/29/2014	IE	12	7.2	bot	7.2	NPK	6	15395.0
7/29/2014	IE	12	7.2	bot	7.2	TP	15	90.0
7/29/2014	IE	12	7.2	bot	7.2	WY	1	72.0
8/4/2014	IE	12	24	top	5	BBT	1	945.0
8/4/2014	IE	12	24	bot	24	BBT	17	17226.0
8/4/2014	IE	12	24	bot	24	INCO	1	2655.0
8/4/2014	IE	12	24	top	5	LCK	52	1075.0
8/4/2014	IE	12	24	bot	24	LCK	44	1792.0
8/4/2014	IE	12	24	top	5	LKH	5	160.0
8/4/2014	IE	12	24	bot	24	LKH	3	111.0
8/4/2014	IE	12	24	bot	24	LKT	1	415.0
8/4/2014	IE	12	24	top	5	LKWF	10	5035.0
8/4/2014	IE	12	24	bot	24	LKWF	125	90558.0
8/4/2014	IE	12	24	bot	24	LNSK	3	2900.0
8/4/2014	IE	12	24	top	5	LNSK	1	1950.0
8/4/2014	IE	12	24	top	5	NPK	1	2845.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/24/2014	IE	12	18.9	top	5	LCK	4	115.0
7/24/2014	IE	12	18.9	top	5	LKWF	2	1950.0
7/24/2014	IE	12	18.9	bot	18.9	LKWF	10	9970.0
7/24/2014	IE	12	18.9	top	5	LNSK	30	26665.0
7/2/2014	IE	12	31.1	top	5	LCK	6	365.0
7/3/2014	IE	12	31.1	bot	31.1	BBT	8	9615.0
7/3/2014	IE	12	31.1	bot	31.1	LCK	24	1546.0
7/3/2014	IE	12	31.1	bot	31.1	LKH	7	300.0
7/3/2014	IE	12	31.1	bot	31.1	LKWF	34	13665.0
7/3/2014	IE	12	31.1	bot	31.1	LNSK	1	615.0
7/18/2014	IE	12	25.3	bot	25.3	INCO	3	13420.0
7/18/2014	IE	12	25.3	top	5	LCK	15	555.0
7/18/2014	IE	12	25.3	bot	25.3	LKT	2	14458.0
7/18/2014	IE	12	25.3	bot	25.3	LKWF	5	5315.0
7/3/2014	IE	12	48.8	bot	48.8	BBT	10	6730.0
7/3/2014	IE	12	48.8	top	5	LCK	6	205.0
7/3/2014	IE	12	48.8	bot	48.8	LCK	12	625.0
7/3/2014	IE	12	48.8	bot	48.8	LKH	3	640.0
7/3/2014	IE	12	48.8	top	5	LKT	5	17000.0
7/3/2014	IE	12	48.8	bot	48.8	LKWF	46	36429.0
7/3/2014	IE	12	48.8	bot	48.8	SJCK	2	200.0
7/1/2014	IE	12	32	top	5	LCK	11	375.0
7/1/2014	IE	12	32	top	5	LKT	2	5455.0
7/2/2014	IE	12	32	bot	32	BBT	4	2095.0
7/2/2014	IE	12	32	bot	32	LCK	20	1635.0
7/2/2014	IE	12	32	bot	32	LKT	1	1445.0
7/2/2014	IE	12	32	bot	32	LKWF	50	26345.0
7/7/2014	IE	12	17	top	5	INCO	3	14700.0
7/7/2014	IE	12	17	bot	17	INCO	10	63000.0
7/7/2014	IE	12	17	top	5	LCK	17	1060.0
7/7/2014	IE	12	17	top	5	LKT	9	26250.0
7/7/2014	IE	12	17	bot	17	LKT	1	11745.0
7/7/2014	IE	12	17	top	5	LKWF	5	790.0
7/7/2014	IE	12	17	bot	17	LKWF	6	8985.0
7/7/2014	IE	12	17	top	5	LNSK	1	1720.0
7/7/2014	IE	12	10	bot	10	BBT	4	4935.0
7/7/2014	IE	12	10	bot	10	INCO	3	12960.0
7/7/2014	IE	12	10	bot	10	LCK	18	395.0
7/7/2014	IE	12	10	bot	10	LKT	2	3260.0
7/7/2014	IE	12	10	bot	10	LKWF	60	26730.0
7/7/2014	IE	12	10	bot	10	LNSK	16	8800.0
7/7/2014	IE	12	10	bot	10	NPK	3	6060.0
7/7/2014	IE	12	10	bot	10	SAUGER	2	505.0
7/7/2014	IE	12	10	bot	10	TP	21	115.0
7/25/2014	IE	12	23.2	bot	23.2	BBT	8	8630.0
7/25/2014	IE	12	23.2	bot	23.2	INCO	2	13410.0
7/25/2014	IE	12	23.2	top	5	LCK	27	1590.0
7/25/2014	IE	12	23.2	bot	23.2	LCK	22	2660.0
7/25/2014	IE	12	23.2	bot	23.2	LKH	13	1645.0
7/25/2014	IE	12	23.2	top	5	LKH	5	890.0
7/25/2014	IE	12	23.2	top	5	LKT	1	1595.0
7/25/2014	IE	12	23.2	bot	23.2	LKT	5	18670.0

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Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/25/2014	IE	12	23.2	bot	23.2	LKWF	51	25720.0
7/25/2014	IE	12	23.2	top	5	LKWF	3	1905.0
7/25/2014	IE	12	23.2	top	5	LNSK	3	1550.0
7/25/2014	IE	12	23.2	bot	23.2	LNSK	1	1240.0
7/8/2014	IE	12	16.8	top	5	INCO	4	21390.0
7/8/2014	IE	12	16.8	bot	16.8	INCO	7	42249.0
7/8/2014	IE	12	16.8	top	5	LCK	43	3759.0
7/8/2014	IE	12	16.8	top	5	LKWF	2	845.0
7/8/2014	IE	12	16.8	bot	16.8	LKWF	5	4935.0
7/8/2014	IE	12	16.8	top	5	LNSK	2	1265.0
7/21/2014	IE	12	9.1	bot	9.1	BBT	2	3630.0
7/21/2014	IE	12	9.1	bot	9.1	LCK	9	315.0
7/21/2014	IE	12	9.1	bot	9.1	LKT	2	10470.0
7/21/2014	IE	12	9.1	bot	9.1	LKWF	40	11760.0
7/21/2014	IE	12	9.1	bot	9.1	LNSK	42	19727.0
7/21/2014	IE	12	9.1	bot	9.1	NPK	1	1900.0
7/21/2014	IE	12	9.1	bot	9.1	SJCK	1	45.0
7/21/2014	IE	12	9.1	bot	9.1	TP	9	55.0
7/21/2014	IE	12	9.1	bot	9.1	WY	3	78.0
7/25/2014	IE	12	21.3	bot	21.3	BBT	18	14605.0
7/25/2014	IE	12	21.3	top	5	INCO	4	14710.0
7/25/2014	IE	12	21.3	top	5	LCK	164	5385.0
7/25/2014	IE	12	21.3	bot	21.3	LCK	44	9440.0
7/25/2014	IE	12	21.3	top	5	LKH	31	12395.0
7/25/2014	IE	12	21.3	bot	21.3	LKH	30	14030.0
7/25/2014	IE	12	21.3	top	5	LKT	2	8445.0
7/25/2014	IE	12	21.3	bot	21.3	LKT	2	12455.0
7/25/2014	IE	12	21.3	bot	21.3	LKWF	77	56479.0
7/25/2014	IE	12	21.3	top	5	LKWF	10	9755.0
7/25/2014	IE	12	21.3	top	5	LNSK	5	3090.0
7/25/2014	IE	12	21.3	bot	21.3	LNSK	1	1190.0
7/25/2014	IE	12	21.3	top	5	SJCK	10	4995.0
7/25/2014	IE	12	21.3	bot	21.3	SJCK	1	640.0
7/15/2014	IE	12	15.8	top	5	BBT	2	2280.0
7/15/2014	IE	12	15.8	bot	15.8	BBT	5	7505.0
7/15/2014	IE	12	15.8	top	5	INCO	2	8130.0
7/15/2014	IE	12	15.8	top	5	LCK	287	18235.0
7/15/2014	IE	12	15.8	bot	15.8	LCK	48	11235.0
7/15/2014	IE	12	15.8	top	5	LKH	20	7890.0
7/15/2014	IE	12	15.8	top	5	LKT	5	34210.0
7/15/2014	IE	12	15.8	bot	15.8	LKWF	24	8450.0
7/15/2014	IE	12	15.8	top	5	LKWF	25	16895.0
7/15/2014	IE	12	15.8	bot	15.8	LNSK	44	33415.0
7/15/2014	IE	12	15.8	top	5	LNSK	42	32700.0
7/15/2014	IE	12	15.8	top	5	SJCK	6	420.0
7/15/2014	IE	12	15.8	bot	15.8	SJCK	2	1110.0
7/16/2015	IE	12	8.8	bot	8.8	BBT	5	4585.0
7/16/2015	IE	12	8.8	bot	8.8	LKH	40	957.0
7/16/2015	IE	12	8.8	bot	8.8	LKWF	41	5025.0
7/16/2015	IE	12	8.8	bot	8.8	LNSK	18	11790.0
7/16/2015	IE	12	8.8	bot	8.8	NPK	8	15280.0
7/22/2015	IE	12	18.7	top	5	LKH	11	265.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/22/2015	IE	12	18.7	top	5	LNSK	2	2750.0
6/29/2015	IE	12	10.4	top	5	BBT	1	1375.0
6/29/2015	IE	12	10.4	top	5	INCO	3	14449.0
6/29/2015	IE	12	10.4	top	5	LCK	1	28.0
6/29/2015	IE	12	10.4	top	5	LKH	4	39.0
6/29/2015	IE	12	10.4	top	5	LKWF	2	1850.0
6/29/2015	IE	12	10.4	top	5	NPK	2	3035.0
7/21/2015	IE	12	8.5	bot	8.5	BBT	5	3775.0
7/21/2015	IE	12	8.5	bot	8.5	LKH	14	80.0
7/21/2015	IE	12	8.5	bot	8.5	LKWF	23	12445.0
7/21/2015	IE	12	8.5	bot	8.5	LNSK	8	1435.0
7/21/2015	IE	12	8.5	bot	8.5	NPK	5	21616.0
7/21/2015	IE	12	26.5	bot	26.5	BBT	13	21185.0
7/21/2015	IE	12	26.5	bot	26.5	LKH	34	2670.0
7/21/2015	IE	12	26.5	bot	26.5	LKT	1	145.0
7/21/2015	IE	12	26.5	bot	26.5	LKWF	41	14815.0
7/21/2015	IE	12	26.5	bot	26.5	NPK	5	14985.0
7/7/2015	IE	12	25	bot	25	BBT	1	995.0
7/7/2015	IE	12	25	top	5	LKH	33	1140.0
7/7/2015	IE	12	25	bot	25	LKH	38	1875.0
7/7/2015	IE	12	25	top	5	LKT	2	6780.0
7/7/2015	IE	12	25	bot	25	LKT	1	4780.0
7/7/2015	IE	12	25	bot	25	LKWF	6	2780.0
6/28/2015	IE	12	18.9	top	5	INCO	1	4955.0
6/28/2015	IE	12	18.9	top	5	LKH	5	219.5
6/28/2015	IE	12	18.9	top	5	LKT	2	5015.0
8/6/2015	IE	12	39.9	bot	39.9	BBT	1	865.0
8/6/2015	IE	12	39.9	top	5	BBT	8	12005.0
8/6/2015	IE	12	39.9	top	5	LCK	16	1815.0
8/6/2015	IE	12	39.9	bot	39.9	LCK	6	755.0
8/6/2015	IE	12	39.9	bot	39.9	LKH	43	2375.0
8/6/2015	IE	12	39.9	top	5	LKH	94	16625.0
8/6/2015	IE	12	39.9	top	5	LKT	1	6100.0
8/6/2015	IE	12	39.9	bot	39.9	LKWF	1	465.0
8/6/2015	IE	12	39.9	top	5	LKWF	4	3790.0
8/6/2015	IE	12	39.9	bot	39.9	SJCK	17	1075.0
8/6/2015	IE	12	39.9	top	5	SJCK	15	1045.0
8/6/2015	IE	12	59.7	top	5	BBT	5	5295.0
8/6/2015	IE	12	59.7	p20	20	LCK	21	2764.5
8/6/2015	IE	12	59.7	bot	59.7	LKH	78	2623.5
8/6/2015	IE	12	59.7	p20	20	LKH	41	3977.0
8/6/2015	IE	12	59.7	top	5	LKH	27	4336.5
8/6/2015	IE	12	59.7	bot	59.7	LKT	1	2885.0
8/6/2015	IE	12	59.7	p20	20	LKWF	4	3541.0
8/6/2015	IE	12	59.7	top	5	LKWF	4	4500.0
8/6/2015	IE	12	59.7	top	5	SJCK	28	2316.5
8/6/2015	IE	12	59.7	p20	20	SJCK	2	192.0
7/31/2015	IE	12	30.2	bot	30.2	BBT	11	8280.0
7/31/2015	IE	12	30.2	top	5	LCK	3	37.0
7/31/2015	IE	12	30.2	top	5	LKH	9	144.0
7/31/2015	IE	12	30.2	top	5	LKWF	1	104.0
7/31/2015	IE	12	30.2	bot	30.2	LKWF	3	2394.5

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Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/31/2015	IE	12	30.2	top	5	LNSK	1	850.0
7/31/2015	IE	12	30.2	bot	30.2	RDWF	1	132.5
7/6/2015	IE	12	37	bot	37	BBT	10	8575.0
7/6/2015	IE	12	37	top	5	LKH	7	320.0
7/6/2015	IE	12	37	bot	37	LKH	29	1970.0
7/6/2015	IE	12	37	bot	37	LKT	2	3590.0
7/6/2015	IE	12	37	bot	37	LKWF	34	23195.0
7/3/2015	IE	12	29.3	bot	29.3	BBT	23	17585.0
7/3/2015	IE	12	29.3	bot	29.3	LKH	26	1545.0
7/3/2015	IE	12	29.3	bot	29.3	LKT	1	3315.0
7/3/2015	IE	12	29.3	top	5	LKT	1	4870.0
7/3/2015	IE	12	29.3	bot	29.3	LKWF	42	20285.0
6/29/2015	IE	12	24	top	5	LKH	2	60.5
6/29/2015	IE	12	24	top	5	LKT	4	19928.0
7/30/2015	IE	12	56.7	top	5	BBT	2	1570.0
7/30/2015	IE	12	56.7	p20	20	BBT	1	1440.0
7/30/2015	IE	12	56.7	p20	20	LCK	8	850.0
7/30/2015	IE	12	56.7	top	5	LKH	29	4670.0
7/30/2015	IE	12	56.7	bot	56.7	LKH	6	1195.0
7/30/2015	IE	12	56.7	p20	20	LKH	8	2154.5
7/30/2015	IE	12	56.7	bot	56.7	LKWF	1	1065.0
7/30/2015	IE	12	56.7	top	5	LKWF	2	2365.0
7/30/2015	IE	12	56.7	bot	56.7	SJCK	5	295.0
7/30/2015	IE	12	48.2	bot	48.2	BBT	7	10185.0
7/30/2015	IE	12	48.2	top	5	LCK	3	355.0
7/30/2015	IE	12	48.2	bot	48.2	LCK	3	1335.0
7/30/2015	IE	12	48.2	top	5	LKH	32	1290.0
7/30/2015	IE	12	48.2	bot	48.2	LKH	26	10315.0
7/30/2015	IE	12	48.2	bot	48.2	LKT	1	4965.0
7/30/2015	IE	12	48.2	bot	48.2	LKWF	6	5275.0
7/30/2015	IE	12	48.2	bot	48.2	SJCK	4	260.0
7/31/2015	IE	12	29.6	bot	29.6	BBT	5	3790.0
7/31/2015	IE	12	29.6	bot	29.6	LCK	1	175.0
7/31/2015	IE	12	29.6	top	5	LKH	17	735.0
7/31/2015	IE	12	29.6	bot	29.6	LKH	25	6275.0
7/31/2015	IE	12	29.6	top	5	LKWF	3	760.0
7/31/2015	IE	12	29.6	bot	29.6	LKWF	34	20155.0
7/31/2015	IE	12	29.6	bot	29.6	SJCK	2	90.0
7/2/2015	IE	12	18	top	5	INCO	6	30270.0
7/2/2015	IE	12	18	top	5	LKH	296	10625.0
7/2/2015	IE	12	18	top	5	LKT	1	6872.0
7/2/2015	IE	12	18	top	5	LKWF	4	3005.0
7/2/2015	IE	12	18	top	5	LNSK	2	2155.0
7/11/2015	IE	12	9.8	bot	9.8	LKH	20	110.0
7/11/2015	IE	12	9.8	bot	9.8	LKWF	2	930.0
7/11/2015	IE	12	9.8	bot	9.8	LNSK	16	2960.0
7/11/2015	IE	12	9.8	bot	9.8	NPK	5	10135.0
7/11/2015	IE	12	9.8	bot	9.8	WY	6	6680.0
7/29/2015	IE	12	41.8	bot	41.8	BBT	7	3690.0
7/29/2015	IE	12	41.8	p20	20	LKH	51	3490.0
7/29/2015	IE	12	41.8	top	5	LKH	35	2545.0
7/29/2015	IE	12	41.8	bot	41.8	LKH	7	2143.0

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Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/29/2015	IE	12	41.8	top	5	LKWF	1	545.0
7/29/2015	IE	12	41.8	bot	41.8	LKWF	6	4405.0
7/29/2015	IE	12	41.8	p20	20	LKWF	17	12515.0
7/29/2015	IE	12	23.8	bot	23.8	BBT	6	7365.0
7/29/2015	IE	12	23.8	top	5	BBT	1	3305.0
7/29/2015	IE	12	23.8	top	5	LKH	38	685.0
7/29/2015	IE	12	23.8	bot	23.8	LKH	11	2700.5
7/29/2015	IE	12	23.8	bot	23.8	LKWF	5	1965.0
7/29/2015	IE	12	23.8	top	5	LNSK	6	4945.0
7/29/2015	IE	12	23.8	top	5	WY	1	1020.0
7/11/2015	IE	12	17.1	top	5	LKH	55	1605.0
7/11/2015	IE	12	17.1	top	5	LKWF	3	2710.0
7/11/2015	IE	12	17.1	top	5	LNSK	8	6265.0
7/24/2015	IE	12	8.5	bot	8.5	BBT	2	1625.0
7/24/2015	IE	12	8.5	bot	8.5	INCO	1	2470.0
7/24/2015	IE	12	8.5	bot	8.5	LKH	8	175.0
7/24/2015	IE	12	8.5	bot	8.5	LKWF	20	13285.0
7/24/2015	IE	12	8.5	bot	8.5	LNSK	17	5085.0
7/24/2015	IE	12	8.5	bot	8.5	NPK	2	3030.0
7/24/2015	IE	12	8.5	bot	8.5	WY	6	3885.0
7/24/2015	IE	12	20.4	bot	20.4	BBT	5	5831.0
7/24/2015	IE	12	20.4	top	5	BBT	1	1695.0
7/24/2015	IE	12	20.4	top	5	GDI	1	225.0
7/24/2015	IE	12	20.4	bot	20.4	INCO	1	3745.0
7/24/2015	IE	12	20.4	bot	20.4	LKH	12	495.0
7/24/2015	IE	12	20.4	top	5	LKH	13	888.5
7/24/2015	IE	12	20.4	top	5	LKWF	7	3700.0
7/24/2015	IE	12	20.4	bot	20.4	LKWF	13	8190.0
7/24/2015	IE	12	20.4	bot	20.4	LNSK	30	11885.0
7/24/2015	IE	12	20.4	top	5	LNSK	12	4925.0
7/24/2015	IE	12	20.4	bot	20.4	NPK	2	3760.0
7/24/2015	IE	12	20.4	top	5	NPK	1	2440.0
7/24/2015	IE	12	20.4	top	5	WY	1	265.0
7/24/2015	IE	12	20.4	bot	20.4	WY	9	8025.0
7/28/2015	IE	12	15.5	top	5	BBT	14	13135.0
7/28/2015	IE	12	15.5	bot	15.5	BBT	3	8130.0
7/28/2015	IE	12	15.5	bot	15.5	INCO	2	8635.0
7/28/2015	IE	12	15.5	bot	15.5	LKH	373	6129.0
7/28/2015	IE	12	15.5	top	5	LKH	2	425.0
7/28/2015	IE	12	15.5	top	5	LKT	1	160.0
7/28/2015	IE	12	15.5	bot	15.5	LKT	2	4705.0
7/28/2015	IE	12	15.5	top	5	LKWF	28	11295.0
7/28/2015	IE	12	15.5	bot	15.5	LKWF	47	31135.0
7/28/2015	IE	12	15.5	top	5	LNSK	11	9700.0
7/28/2015	IE	12	15.5	bot	15.5	LNSK	94	86281.0
7/28/2015	IE	12	15.5	bot	15.5	WY	3	3300.0
7/23/2016	IE	12	9.1	bot	9.1	AG	1	820.0
7/23/2016	IE	12	9.1	bot	9.1	BBT	1	700.0
7/23/2016	IE	12	9.1	bot	9.1	LKH	1	600.0
7/23/2016	IE	12	9.1	bot	9.1	LKWF	21	4660.0
7/23/2016	IE	12	9.1	bot	9.1	LNSK	22	907.0
7/23/2016	IE	12	9.1	bot	9.1	NPK	4	6620.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/23/2016	IE	12	9.1	bot	9.1	SPT	3	18.0
7/23/2016	IE	12	9.1	bot	9.1	TP	34	228.0
7/23/2016	IE	12	9.1	bot	9.1	WY	4	920.0
8/5/2016	IE	12	20	top	5	BBT	1	456.0
8/5/2016	IE	12	20	top	5	LCK	74	641.0
8/5/2016	IE	12	20	top	5	LKH	95	1656.0
7/23/2016	IE	12	10.3	top	5	INCO	2	1480.0
7/23/2016	IE	12	10.3	top	5	LCK	41	681.0
7/23/2016	IE	12	10.3	top	5	LKH	35	440.0
7/23/2016	IE	12	10.3	top	5	LKWF	24	2400.0
7/23/2016	IE	12	10.3	top	5	LNSK	1	280.0
7/23/2016	IE	12	10.3	top	5	NPK	2	3940.0
7/23/2016	IE	12	10.3	top	5	TP	47	93.0
7/23/2016	IE	12	10.3	top	5	WY	13	6080.0
8/4/2016	IE	12	7	bot	7	BBT	4	7.0
8/4/2016	IE	12	7	bot	7	LKWF	19	23920.0
8/4/2016	IE	12	7	bot	7	LNSK	3	87.0
8/4/2016	IE	12	7	bot	7	NPK	7	9300.0
8/4/2016	IE	12	7	bot	7	SPT	5	30.0
8/4/2016	IE	12	7	bot	7	TP	27	60.0
8/4/2016	IE	12	25	bot	25	BBT	3	4480.0
8/4/2016	IE	12	25	top	5	INCO	1	3420.0
8/4/2016	IE	12	25	bot	25	LCK	69	952.0
8/4/2016	IE	12	25	top	5	LCK	105	1719.0
8/4/2016	IE	12	25	top	5	LKH	11	278.0
8/4/2016	IE	12	25	bot	25	LKH	40	2942.0
8/4/2016	IE	12	25	bot	25	LKWF	48	18366.0
8/4/2016	IE	12	25	top	5	LKWF	4	2460.0
8/4/2016	IE	12	25	top	5	NPK	6	12760.0
7/10/2016	IE	12	22.6	bot	22.6	BBT	5	4840.0
7/10/2016	IE	12	22.6	top	5	LCK	3	24.0
7/10/2016	IE	12	22.6	bot	22.6	LCK	7	256.0
7/10/2016	IE	12	22.6	top	5	LKH	1	40.0
7/10/2016	IE	12	22.6	bot	22.6	LKH	5	314.0
7/10/2016	IE	12	22.6	bot	22.6	LKWF	9	3980.0
7/5/2016	IE	12	18.5	top	5	INCO	6	18980.0
7/5/2016	IE	12	18.5	top	5	LCK	63	1420.0
7/5/2016	IE	12	18.5	top	5	LKH	33	4980.0
7/5/2016	IE	12	18.5	top	5	LKT	1	320.0
7/5/2016	IE	12	18.5	top	5	LKWF	4	3490.0
7/5/2016	IE	12	18.5	top	5	LNSK	25	21800.0
7/12/2016	IE	12	32.3	top	5	BBT	3	2320.0
7/12/2016	IE	12	32.3	bot	32.3	BBT	4	4100.0
7/12/2016	IE	12	32.3	bot	32.3	LCK	11	1700.0
7/12/2016	IE	12	32.3	top	5	LKH	4	144.0
7/12/2016	IE	12	32.3	bot	32.3	LKH	14	1395.0
7/12/2016	IE	12	32.3	top	5	LKWF	4	2320.0
7/12/2016	IE	12	32.3	bot	32.3	LKWF	57	39160.0
7/12/2016	IE	12	32.6	bot	32.6	BBT	1	1420.0
7/12/2016	IE	12	32.6	top	5	LKH	2	153.0
7/12/2016	IE	12	32.6	bot	32.6	LKH	27	2080.0
7/12/2016	IE	12	32.6	bot	32.6	LKT	1	4420.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/12/2016	IE	12	32.6	bot	32.6	LKWF	12	6060.0
7/12/2016	IE	12	32.6	bot	32.6	LNSK	1	260.0
6/26/2016	IE	12	27.7	top	5	LCK	27	685.0
6/26/2016	IE	12	27.7	top	5	LKH	9	465.0
6/26/2016	IE	12	27.7	top	5	LKT	5	14850.0
6/26/2016	IE	12	24.9	bot	24.9	BBT	1	1466.0
6/26/2016	IE	12	24.9	bot	24.9	LCK	25	620.0
6/26/2016	IE	12	24.9	top	5	LCK	7	215.0
6/26/2016	IE	12	24.9	top	5	LKH	6	430.0
6/26/2016	IE	12	24.9	bot	24.9	LKH	25	2575.0
6/26/2016	IE	12	24.9	bot	24.9	LKT	3	9230.0
6/26/2016	IE	12	24.9	bot	24.9	LKWF	3	1210.0
6/26/2016	IE	12	24.9	bot	24.9	SJCK	7	745.0
7/13/2016	IE	12	51	bot	51	BBT	8	3692.0
7/13/2016	IE	12	51	p20	20	LCK	12	300.0
7/13/2016	IE	12	51	top	5	LCK	24	650.0
7/13/2016	IE	12	51	bot	51	LCK	3	200.0
7/13/2016	IE	12	51	p20	20	LKH	16	1100.0
7/13/2016	IE	12	51	bot	51	LKH	17	2711.0
7/13/2016	IE	12	51	p20	20	LKT	2	9140.0
7/13/2016	IE	12	51	bot	51	LKWF	11	7720.0
7/13/2016	IE	12	51	top	5	LKWF	1	1080.0
7/14/2016	IE	12	48.8	top	5	BBT	4	2860.0
7/14/2016	IE	12	48.8	bot	48.8	BBT	3	2555.0
7/14/2016	IE	12	48.8	bot	48.8	LKH	1	105.0
7/14/2016	IE	12	48.8	top	5	LKH	26	7813.0
7/14/2016	IE	12	48.8	top	5	LKWF	35	29725.0
7/14/2016	IE	12	48.8	bot	48.8	LKWF	8	7018.0
7/14/2016	IE	12	48.8	top	5	SJCK	1	100.0
7/17/2016	IE	12	33	bot	33	BBT	3	2980.0
7/17/2016	IE	12	33	bot	33	LCK	4	31.0
7/17/2016	IE	12	33	top	5	LCK	59	2501.0
7/17/2016	IE	12	33	top	5	LKH	1	120.0
7/17/2016	IE	12	33	bot	33	LKH	11	1518.0
7/17/2016	IE	12	33	bot	33	LKWF	17	6620.0
7/17/2016	IE	12	33	top	5	LNSK	3	2540.0
7/4/2016	IE	12	16.3	top	5	INCO	1	7500.0
7/4/2016	IE	12	16.3	top	5	LKH	44	1256.0
7/4/2016	IE	12	16.3	top	5	LKWF	7	4645.0
7/4/2016	IE	12	16.3	top	5	LNSK	30	26220.0
7/4/2016	IE	12	9	bot	9	BBT	3	6076.0
7/4/2016	IE	12	9	bot	9	INCO	2	1140.0
7/4/2016	IE	12	9	bot	9	LKH	40	405.0
7/4/2016	IE	12	9	bot	9	LKT	3	2060.0
7/4/2016	IE	12	9	bot	9	LKWF	47	17457.0
7/4/2016	IE	12	9	bot	9	LNSK	53	24812.0
7/19/2016	IE	12	43	bot	43	BBT	8	9020.0
7/19/2016	IE	12	43	p20	20	BBT	4	5160.0
7/19/2016	IE	12	43	p20	20	LCK	13	2015.0
7/19/2016	IE	12	43	bot	43	LCK	10	1840.0
7/19/2016	IE	12	43	top	5	LCK	1	307.0
7/19/2016	IE	12	43	p20	20	LKH	17	2100.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/19/2016	IE	12	43	bot	43	LKH	38	7800.0
7/19/2016	IE	12	43	p20	20	LKWF	17	14010.0
7/19/2016	IE	12	43	bot	43	LKWF	18	19050.0
7/19/2016	IE	12	43	top	5	LNSK	1	1105.0
7/19/2016	IE	12	43	bot	43	SJCK	1	100.0
7/9/2016	IE	12	24	bot	24	BBT	3	5110.0
7/9/2016	IE	12	24	top	5	BBT	1	2220.0
7/9/2016	IE	12	24	top	5	INCO	2	7215.0
7/9/2016	IE	12	24	bot	24	LCK	14	515.0
7/9/2016	IE	12	24	top	5	LKH	30	1266.0
7/9/2016	IE	12	24	bot	24	LKH	5	1210.0
7/9/2016	IE	12	24	bot	24	LKT	1	4815.0
7/9/2016	IE	12	24	top	5	LKT	1	5340.0
7/9/2016	IE	12	24	bot	24	LKWF	16	5980.0
7/9/2016	IE	12	24	top	5	LKWF	3	1500.0
7/9/2016	IE	12	24	top	5	LNSK	6	4850.0
6/28/2016	IE	12	15.7	top	5	INCO	2	5705.0
6/28/2016	IE	12	15.7	top	5	LCK	5	590.0
6/28/2016	IE	12	15.7	top	5	LKH	138	5535.0
6/28/2016	IE	12	15.7	top	5	LKT	3	8295.0
6/28/2016	IE	12	15.7	top	5	LKWF	8	1500.0
6/28/2016	IE	12	15.7	top	5	LNSK	9	7295.0
6/28/2016	IE	12	15.7	top	5	TP	4	30.0
7/9/2016	IE	12	23.1	bot	23.1	BBT	1	1495.0
7/9/2016	IE	12	23.1	bot	23.1	LCK	1	120.0
7/9/2016	IE	12	23.1	bot	23.1	LKH	102	4219.0
7/9/2016	IE	12	23.1	bot	23.1	LKWF	21	8955.0
7/9/2016	IE	12	23.1	bot	23.1	LNSK	46	28100.0
7/9/2016	IE	12	23.1	bot	23.1	WY	1	640.0
6/29/2016	IE	12	20.2	top	5	LKH	12	416.0
6/29/2016	IE	12	20.2	bot	20.2	LKH	37	2346.0
6/29/2016	IE	12	20.2	bot	20.2	LKT	1	6860.0
6/29/2016	IE	12	20.2	bot	20.2	LKWF	5	2315.0
6/29/2016	IE	12	20.2	bot	20.2	TP	1	8.0
6/27/2016	IE	12	14.5	bot	14.5	BBT	7	10565.0
6/27/2016	IE	12	14.5	top	5	INCO	2	10840.0
6/27/2016	IE	12	14.5	bot	14.5	LCK	1	76.0
6/27/2016	IE	12	14.5	top	5	LKH	53	2271.0
6/27/2016	IE	12	14.5	bot	14.5	LKH	157	14990.0
6/27/2016	IE	12	14.5	bot	14.5	LKWF	36	23808.0
6/27/2016	IE	12	14.5	top	5	LKWF	11	8000.0
6/27/2016	IE	12	14.5	top	5	LNSK	35	29345.0
6/27/2016	IE	12	14.5	bot	14.5	LNSK	21	17885.0
6/27/2016	IE	12	14.5	bot	14.5	TP	2	25.0
7/20/2016	IE	12	21	bot	21	BBT	7	13155.0
7/20/2016	IE	12	21	top	5	INCO	3	8455.0
7/20/2016	IE	12	21	bot	21	INCO	3	12695.0
7/20/2016	IE	12	21	top	5	LCK	35	468.0
7/20/2016	IE	12	21	bot	21	LCK	20	554.0
7/20/2016	IE	12	21	top	5	LKH	21	815.0
7/20/2016	IE	12	21	bot	21	LKH	5	528.0
7/20/2016	IE	12	21	top	5	LKT	3	3370.0

Cont. Appendix B.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/20/2016	IE	12	21	top	5	LKWF	28	11680.0
7/20/2016	IE	12	21	bot	21	LKWF	41	17655.0
7/20/2016	IE	12	21	bot	21	LNSK	35	29135.0
7/20/2016	IE	12	21	top	5	LNSK	9	7950.0
7/20/2016	IE	12	10	top	5	BBT	7	13110.0
7/20/2016	IE	12	10	top	5	INCO	19	76290.0
7/20/2016	IE	12	10	top	5	LKH	128	6226.0
7/20/2016	IE	12	10	top	5	LKWF	137	33850.0
7/20/2016	IE	12	10	top	5	LNSK	63	24540.0
7/20/2016	IE	12	10	top	5	TP	3	35.0
7/20/2016	IE	12	10	top	5	WY	1	1220.0

Appendix C. *Total catch as individuals and weight of fish caught with experimental gillnets in the Central Basin (FMAs II and III) of Great Slave Lake, 2011 – 2016.*

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/2/2012	II	20	39.6	bot	39.6	BBT	32	28672.0
8/2/2012	II	20	39.6	top	5	BBT	4	5005.0
8/2/2012	II	20	39.6	bot	39.6	LCK	1	21.0
8/2/2012	II	20	39.6	bot	39.6	LKH	6	221.0
8/2/2012	II	20	39.6	top	5	LKH	7	724.0
8/2/2012	II	20	39.6	top	5	LKWF	4	1775.0
8/2/2012	II	20	39.6	bot	39.6	LKWF	21	17525.0
8/2/2012	II	20	39.6	top	5	SJCK	3	180.0
8/2/2012	II	20	39.6	bot	39.6	SJCK	3	251.5
7/9/2013	II	20	11.6	bot	10	LCK	14	112.0
7/9/2013	II	20	11.6	bot	10	LKT	1	3440.0
7/9/2013	II	20	11.6	bot	10	LKWF	35	21502.0
7/9/2013	II	20	11.6	bot	10	LNSK	18	8185.0
7/9/2013	II	20	11.6	bot	10	NPK	5	13100.0
7/9/2013	II	20	11.6	bot	10	TP	10	197.0
7/5/2013	II	20	36	bot	36	BBT	16	13511.0
7/5/2013	II	20	36	top	5	LCK	14	314.0
7/5/2013	II	20	36	bot	36	LCK	25	951.0
7/5/2013	II	20	36	bot	36	LKH	58	7229.0
7/5/2013	II	20	36	top	5	LKH	2	550.0
7/5/2013	II	20	36	top	5	LKT	2	5520.0
7/5/2013	II	20	36	bot	36	LKWF	62	34247.0
7/5/2013	II	20	36	top	5	LKWF	3	2107.0
7/5/2013	II	20	36	bot	36	SJCK	5	272.0
7/11/2013	II	20	12	top	5	LCK	47	968.0
7/11/2013	II	20	12	top	5	LKWF	5	5390.0
7/10/2013	II	20	21.6	bot	21.6	BBT	4	5400.0
7/10/2013	II	20	21.6	top	5	LCK	136	2746.0
7/10/2013	II	20	21.6	bot	21.6	LCK	26	1137.0
7/10/2013	II	20	21.6	top	5	LKT	1	750.0
7/10/2013	II	20	21.6	bot	21.6	LKT	3	2751.0
7/10/2013	II	20	21.6	bot	21.6	LKWF	81	50530.0
7/10/2013	II	20	21.6	top	5	LKWF	1	900.0
7/10/2013	II	20	21.6	bot	21.6	LNSK	29	11312.0
7/10/2013	II	20	21.6	bot	21.6	NSSBK	2	2.0
7/10/2013	II	20	21.6	bot	21.6	TP	3	2.0
7/8/2013	II	20	60.7	p20	20	BBT	3	1154.9
7/8/2013	II	20	60.7	top	5	BBT	8	5018.0
7/8/2013	II	20	60.7	bot	60.7	BBT	2	1792.0
7/8/2013	II	20	60.7	p20	20	LCK	126	3819.0
7/8/2013	II	20	60.7	bot	60.7	LCK	2	104.0
7/8/2013	II	20	60.7	top	5	LCK	20	1444.0
7/8/2013	II	20	60.7	bot	60.7	LKH	1	12.7
7/8/2013	II	20	60.7	top	5	LKH	1	374.0
7/8/2013	II	20	60.7	p20	20	LKT	1	3357.0
7/8/2013	II	20	60.7	bot	60.7	LKWF	47	33800.0
7/8/2013	II	20	60.7	top	5	LKWF	42	33920.0
7/8/2013	II	20	60.7	p20	20	LKWF	16	13380.0
7/8/2013	II	20	60.7	bot	60.7	NSSBK	1	6.0
7/8/2013	II	20	60.7	p20	20	RDWF	3	550.0
7/8/2013	II	20	60.7	bot	60.7	SJCK	11	727.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/8/2013	II	20	60.7	top	5	SJCK	25	2268.0
7/8/2013	II	20	60.7	p20	20	SJCK	6	3540.0
7/6/2013	II	20	66	top	5	BBT	3	919.0
7/6/2013	II	20	66	bot	66	BBT	10	10577.0
7/6/2013	II	20	66	top	5	LCK	2	40.0
7/6/2013	II	20	66	p30	30	LCK	136	4185.0
7/6/2013	II	20	66	p30	30	LKH	6	1250.0
7/6/2013	II	20	66	top	5	LKH	1	414.0
7/6/2013	II	20	66	bot	66	LKH	9	4205.0
7/6/2013	II	20	66	p30	30	LKT	1	6310.0
7/6/2013	II	20	66	p30	30	LKWF	2	1306.0
7/6/2013	II	20	66	bot	66	LKWF	7	6969.0
7/6/2013	II	20	66	top	5	LKWF	3	3030.0
7/6/2013	II	20	66	bot	66	SHSP	1	22.6
7/6/2013	II	20	66	p30	30	SJCK	1	39.0
7/6/2013	II	20	66	bot	66	SJCK	20	1168.0
7/6/2013	II	20	66	top	5	SJCK	11	865.0
7/19/2013	II	20	5.5	bot	5.5	AG	1	450.0
7/19/2013	II	20	5.5	bot	5.5	LCK	6	115.0
7/19/2013	II	20	5.5	bot	5.5	LKWF	25	28430.0
7/19/2013	II	20	5.5	bot	5.5	LNSK	1	57.0
7/19/2013	II	20	5.5	bot	5.5	NPD	2	12.0
7/19/2013	II	20	5.5	bot	5.5	NPK	5	13363.0
7/19/2013	II	20	5.5	bot	5.5	NSSBK	3	3.0
7/19/2013	II	20	5.5	bot	5.5	RDWF	2	163.2
7/19/2013	II	20	5.5	bot	5.5	SAUGER	2	85.7
7/19/2013	II	20	5.5	bot	5.5	TP	3	13.0
7/18/2013	II	20	46.9	bot	46.9	BBT	7	7565.0
7/18/2013	II	20	46.9	bot	46.9	LCK	2	41.0
7/18/2013	II	20	46.9	top	5	LCK	6	220.0
7/18/2013	II	20	46.9	p20	20	LCK	53	5760.0
7/18/2013	II	20	46.9	p20	20	LKT	2	7920.0
7/18/2013	II	20	46.9	top	5	LKT	2	9400.0
7/18/2013	II	20	46.9	p20	20	LKWF	1	549.0
7/18/2013	II	20	46.9	bot	46.9	LKWF	21	17302.0
7/18/2013	II	20	46.9	bot	46.9	SJCK	33	2592.0
7/18/2013	II	20	46.9	top	5	SJCK	1	81.0
7/17/2013	II	20	72.2	bot	72.2	BBT	4	2218.0
7/17/2013	II	20	72.2	bot	72.2	LCK	4	90.3
7/17/2013	II	20	72.2	top	5	LCK	92	3440.0
7/17/2013	II	20	72.2	p30	30	LCK	101	4460.0
7/17/2013	II	20	72.2	p30	30	LKH	7	650.0
7/17/2013	II	20	72.2	top	5	LKH	29	3951.0
7/17/2013	II	20	72.2	bot	72.2	LKH	7	1340.0
7/17/2013	II	20	72.2	bot	72.2	LKT	2	4250.0
7/17/2013	II	20	72.2	top	5	LKT	6	20180.0
7/17/2013	II	20	72.2	p30	30	LKT	1	5110.0
7/17/2013	II	20	72.2	p30	30	LKWF	3	1930.0
7/17/2013	II	20	72.2	bot	72.2	LKWF	12	11270.0
7/17/2013	II	20	72.2	bot	72.2	SJCK	3	300.0
7/7/2013	II	20	59	top	5	BBT	6	3110.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/7/2013	II	20	59	p20	20	BBT	8	6421.0
7/7/2013	II	20	59	bot	59	BBT	10	11854.0
7/7/2013	II	20	59	p20	20	LCK	222	4464.0
7/7/2013	II	20	59	top	5	LCK	50	1166.0
7/7/2013	II	20	59	top	5	LKH	1	461.0
7/7/2013	II	20	59	bot	59	LKH	1	471.0
7/7/2013	II	20	59	top	5	LKT	1	2940.0
7/7/2013	II	20	59	p20	20	LKT	1	5780.0
7/7/2013	II	20	59	top	5	LKWF	7	4398.0
7/7/2013	II	20	59	p20	20	LKWF	17	14600.0
7/7/2013	II	20	59	bot	59	LKWF	22	22524.0
7/7/2013	II	20	59	p20	20	SJCK	18	1098.0
7/7/2013	II	20	59	bot	59	SJCK	23	1673.0
7/7/2013	II	20	59	top	5	SJCK	13	1179.0
7/24/2013	II	20	58	bot	58	BBT	1	1750.0
7/24/2013	II	20	58	top	5	LCK	14	513.0
7/24/2013	II	20	58	p20	20	LCK	17	1244.0
7/24/2013	II	20	58	top	5	LKH	1	220.0
7/24/2013	II	20	58	bot	58	LKH	1	434.0
7/24/2013	II	20	58	top	5	LKT	9	26860.0
7/24/2013	II	20	58	top	5	LKWF	1	209.0
7/24/2013	II	20	58	p20	20	LKWF	5	3407.0
7/24/2013	II	20	58	bot	58	LKWF	12	11900.0
7/24/2013	II	20	58	top	5	SJCK	91	1840.0
7/24/2013	II	20	58	p20	20	SJCK	2	55.0
7/24/2013	II	20	58	bot	58	SJCK	31	1960.0
7/17/2013	II	20	65.5	bot	65.5	BBT	8	6380.0
7/17/2013	II	20	65.5	top	5	LCK	175	3987.0
7/17/2013	II	20	65.5	bot	65.5	LCK	3	220.0
7/17/2013	II	20	65.5	p30	30	LCK	10	926.0
7/17/2013	II	20	65.5	bot	65.5	LKH	2	1280.0
7/17/2013	II	20	65.5	top	5	LKT	4	15720.0
7/17/2013	II	20	65.5	p30	30	LKWF	1	713.0
7/17/2013	II	20	65.5	bot	65.5	LKWF	20	20570.0
7/17/2013	II	20	65.5	p30	30	SJCK	9	385.0
7/17/2013	II	20	65.5	bot	65.5	SJCK	9	594.0
7/30/2013	II	20	17	top	5	LCK	187	4800.0
7/26/2013	II	20	40	bot	40	BBT	9	8045.0
7/26/2013	II	20	40	top	5	LCK	34	1141.0
7/26/2013	II	20	40	bot	40	LCK	17	1080.0
7/26/2013	II	20	40	p20	20	LCK	72	6560.0
7/26/2013	II	20	40	top	5	LKH	10	380.0
7/26/2013	II	20	40	p20	20	LKH	41	6040.0
7/26/2013	II	20	40	bot	40	LKH	92	17880.0
7/26/2013	II	20	40	top	5	LKT	3	4485.4
7/26/2013	II	20	40	bot	40	LKWF	13	10560.0
7/26/2013	II	20	40	top	5	LKWF	3	3455.0
7/26/2013	II	20	40	p20	20	LKWF	3	3735.0
7/26/2013	II	20	40	bot	40	SJCK	28	2640.0
7/26/2013	II	20	40	p20	20	SJCK	1	280.0
7/24/2013	II	20	60	p20	20	BBT	2	1890.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/24/2013	II	20	60	bot	60	BBT	7	7813.0
7/24/2013	II	20	60	top	5	LCK	1	22.6
7/24/2013	II	20	60	bot	60	LCK	4	184.0
7/24/2013	II	20	60	bot	60	LKH	3	1846.0
7/24/2013	II	20	60	bot	60	LKWF	12	11588.0
7/24/2013	II	20	60	p20	20	LKWF	16	15510.0
7/24/2013	II	20	60	top	5	LKWF	1	1010.0
7/24/2013	II	20	60	bot	60	SJCK	26	1978.0
7/24/2013	II	20	60	p20	20	SJCK	11	970.0
7/30/2013	II	20	39	bot	39	BBT	12	12540.0
7/30/2013	II	20	39	top	5	LCK	30	820.0
7/30/2013	II	20	39	bot	39	LCK	14	5840.0
7/30/2013	II	20	39	bot	39	LKH	43	11160.0
7/30/2013	II	20	39	top	5	LKT	2	6780.0
7/30/2013	II	20	39	bot	39	LKT	3	11100.0
7/30/2013	II	20	39	top	5	LKWF	3	1700.0
7/30/2013	II	20	39	bot	39	LKWF	14	13320.0
7/25/2013	II	20	61	p20	20	BBT	1	65.0
7/25/2013	II	20	61	top	5	BBT	1	800.0
7/25/2013	II	20	61	bot	61	BBT	3	2480.0
7/25/2013	II	20	61	top	5	LCK	5	128.0
7/25/2013	II	20	61	p20	20	LCK	102	3960.0
7/25/2013	II	20	61	bot	61	LCK	7	740.0
7/25/2013	II	20	61	p20	20	LKT	1	3640.0
7/25/2013	II	20	61	p20	20	LKWF	3	2100.0
7/25/2013	II	20	61	bot	61	LKWF	13	12240.0
7/25/2013	II	20	61	top	5	LKWF	11	11940.0
7/25/2013	II	20	61	top	5	SJCK	15	760.0
7/25/2013	II	20	61	bot	61	SJCK	13	956.0
7/31/2013	II	20	43	bot	43	BBT	12	14200.0
7/31/2013	II	20	43	p20	20	BBT	3	4160.0
7/31/2013	II	20	43	top	5	LCK	76	1480.0
7/31/2013	II	20	43	bot	43	LCK	5	200.0
7/31/2013	II	20	43	p20	20	LCK	39	2680.0
7/31/2013	II	20	43	p20	20	LKH	65	7060.0
7/31/2013	II	20	43	bot	43	LKH	27	8080.0
7/31/2013	II	20	43	top	5	LKT	4	16480.0
7/31/2013	II	20	43	bot	43	LKT	1	5200.0
7/31/2013	II	20	43	bot	43	LKWF	9	7500.0
7/31/2013	II	20	43	p20	20	LKWF	8	7000.0
7/31/2013	II	20	43	p20	20	SJCK	1	60.0
7/31/2013	II	20	43	bot	43	SJCK	30	2120.0
8/1/2013	II	20	53	p20	20	BBT	1	280.0
8/1/2013	II	20	53	top	5	BBT	4	2715.0
8/1/2013	II	20	53	bot	53	BBT	9	8275.0
8/1/2013	II	20	53	p20	20	INCO	1	6200.0
8/1/2013	II	20	53	bot	53	LCK	2	60.0
8/1/2013	II	20	53	p20	20	LCK	156	7160.0
8/1/2013	II	20	53	top	5	LCK	26	2168.0
8/1/2013	II	20	53	p20	20	LKH	3	1560.0
8/1/2013	II	20	53	bot	53	LKWF	9	6750.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/1/2013	II	20	53	p20	20	LKWF	15	12240.0
8/1/2013	II	20	53	top	5	LKWF	7	7115.0
8/1/2013	II	20	53	top	5	SJCK	4	220.0
8/1/2013	II	20	53	bot	53	SJCK	9	820.0
8/1/2013	II	20	47	bot	47	BBT	6	5500.0
8/1/2013	II	20	47	p20	20	BBT	1	1680.0
8/1/2013	II	20	47	p20	20	LCK	74	5325.0
8/1/2013	II	20	47	bot	47	LCK	5	360.0
8/1/2013	II	20	47	top	5	LCK	3	440.0
8/1/2013	II	20	47	p20	20	LKWF	6	4940.0
8/1/2013	II	20	47	bot	47	LKWF	14	12610.0
8/1/2013	II	20	47	bot	47	SJCK	4	280.0
7/31/2016	II	20	23	top	5	BBT	2	950.0
7/31/2016	II	20	23	bot	23	BBT	12	15770.0
7/31/2016	II	20	23	top	5	LCK	6	690.0
7/31/2016	II	20	23	bot	23	LCK	4	605.0
7/31/2016	II	20	23	bot	23	LKH	7	370.0
7/31/2016	II	20	23	top	5	LKH	54	4280.0
7/31/2016	II	20	23	top	5	LKWF	5	3145.0
7/31/2016	II	20	23	bot	23	LKWF	15	13760.0
7/30/2016	II	20	52	top	5	BBT	3	1310.0
7/30/2016	II	20	52	bot	52	BBT	15	14565.0
7/30/2016	II	20	52	top	5	INCO	6	30115.0
7/30/2016	II	20	52	bot	52	LKH	5	380.0
7/30/2016	II	20	52	top	5	LKH	307	24855.0
7/30/2016	II	20	52	top	5	LKWF	4	3360.0
7/30/2016	II	20	52	bot	52	LKWF	5	4730.0
8/17/2012	III	30	35.1	top	5	BBT	10	7255.0
8/17/2012	III	30	35.1	bot	35.1	BBT	14	11750.0
8/17/2012	III	30	35.1	top	5	LCK	7	390.0
8/17/2012	III	30	35.1	bot	35.1	LCK	25	1571.0
8/17/2012	III	30	35.1	bot	35.1	LKH	2	250.0
8/17/2012	III	30	35.1	top	5	LKH	9	1680.0
8/17/2012	III	30	35.1	top	5	LKWF	27	18010.0
8/17/2012	III	30	35.1	bot	35.1	LKWF	37	24830.0
8/17/2012	III	30	35.1	top	5	LNSK	3	4350.0
8/17/2012	III	30	35.1	bot	35.1	LNSK	1	2630.0
8/17/2012	III	30	35.1	bot	35.1	SJCK	3	186.0
8/17/2012	III	30	35.1	top	5	SJCK	5	641.5
8/10/2012	III	30	21	top	5	BBT	5	6270.0
8/10/2012	III	30	21	bot	20	BBT	16	27855.0
8/10/2012	III	30	21	top	5	INCO	4	10443.0
8/10/2012	III	30	21	top	5	LCK	265	15160.0
8/10/2012	III	30	21	bot	20	LCK	91	8480.0
8/10/2012	III	30	21	top	5	LKH	81	10246.5
8/10/2012	III	30	21	bot	20	LKH	94	28928.0
8/10/2012	III	30	21	bot	20	LKT	3	284.0
8/10/2012	III	30	21	top	5	LKT	1	3060.0
8/10/2012	III	30	21	bot	20	LKWF	25	11076.0
8/10/2012	III	30	21	top	5	LKWF	23	16210.0
8/10/2012	III	30	21	top	5	LNSK	22	21305.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/10/2012	III	30	21	bot	20	LNSK	4	4020.0
8/10/2012	III	30	21	top	5	SJCK	3	180.0
8/10/2012	III	30	21	bot	20	SJCK	5	420.0
8/16/2012	III	30	24	top	5	BBT	30	34175.0
8/16/2012	III	30	24	bot	24	BBT	31	35745.0
8/16/2012	III	30	24	top	5	INCO	2	16224.0
8/16/2012	III	30	24	top	5	LCK	32	4075.0
8/16/2012	III	30	24	bot	24	LCK	42	10778.0
8/16/2012	III	30	24	top	5	LKH	74	16135.0
8/16/2012	III	30	24	bot	24	LKH	42	12845.0
8/16/2012	III	30	24	top	5	LKWF	34	13161.0
8/16/2012	III	30	24	bot	24	LKWF	20	10950.0
8/16/2012	III	30	24	bot	24	LNSK	9	12010.0
8/16/2012	III	30	24	top	5	LNSK	8	11150.0
8/16/2012	III	30	24	top	5	SJCK	48	9630.0
8/16/2012	III	30	24	bot	24	SJCK	4	925.0
8/8/2012	III	30	15	bot	15	BBT	3	5455.0
8/8/2012	III	30	15	top	5	GDI	1	122.0
8/8/2012	III	30	15	bot	15	INCO	1	2700.0
8/8/2012	III	30	15	top	5	INCO	3	11636.0
8/8/2012	III	30	15	top	5	LCK	418	10634.0
8/8/2012	III	30	15	bot	15	LCK	76	5725.0
8/8/2012	III	30	15	bot	15	LKH	6	400.0
8/8/2012	III	30	15	top	5	LKH	46	5952.0
8/8/2012	III	30	15	bot	15	LKWF	19	6871.0
8/8/2012	III	30	15	top	5	LKWF	39	26607.0
8/8/2012	III	30	15	bot	15	LNSK	25	25181.0
8/8/2012	III	30	15	top	5	LNSK	28	28846.0
8/8/2012	III	30	15	bot	15	SJCK	1	136.5
8/8/2012	III	30	15	top	5	TP	2	8.0
8/8/2012	III	30	15	top	5	WY	1	735.0
7/28/2012	III	30	30	top	5	BBT	8	6221.0
7/28/2012	III	30	30	bot	30	BBT	9	9627.0
7/28/2012	III	30	30	top	5	LCK	2	95.0
7/28/2012	III	30	30	bot	30	LKH	2	177.0
7/28/2012	III	30	30	top	5	LKWF	12	12425.0
7/28/2012	III	30	30	bot	30	LKWF	8	8355.0
7/28/2012	III	30	30	bot	30	LNSK	1	1050.0
7/28/2012	III	30	30	bot	30	SJCK	2	157.0
7/28/2012	III	30	30	top	5	SJCK	1	97.0
8/8/2012	III	30	18	bot	18	BBT	28	17000.0
8/8/2012	III	30	18	top	5	BBT	15	17950.0
8/8/2012	III	30	18	bot	18	INCO	1	1940.0
8/8/2012	III	30	18	top	5	INCO	5	15425.0
8/8/2012	III	30	18	top	5	LCK	252	7430.0
8/8/2012	III	30	18	bot	18	LCK	27	2359.0
8/8/2012	III	30	18	bot	18	LKH	33	6830.0
8/8/2012	III	30	18	top	5	LKH	73	55125.0
8/8/2012	III	30	18	bot	18	LKWF	6	2640.0
8/8/2012	III	30	18	top	5	LKWF	31	18375.0
8/8/2012	III	30	18	bot	18	LNSK	37	34859.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/8/2012	III	30	18	top	5	LNSK	48	52509.0
8/8/2012	III	30	18	bot	18	SJCK	1	105.0
8/8/2012	III	30	18	top	5	WY	1	1040.0
7/18/2012	III	30	12.2	top	5	BBT	6	7165.0
7/18/2012	III	30	12.2	bot	12.2	BBT	5	6630.0
7/18/2012	III	30	12.2	top	5	LCK	19	833.0
7/18/2012	III	30	12.2	top	5	LKH	32	2800.0
7/18/2012	III	30	12.2	bot	12.2	LKH	1	130.0
7/18/2012	III	30	12.2	top	5	LKWF	17	4235.0
7/18/2012	III	30	12.2	bot	12.2	LKWF	2	1485.0
7/18/2012	III	30	12.2	top	5	LNSK	3	2670.0
7/18/2012	III	30	12.2	bot	12.2	LNSK	1	1185.0
7/17/2012	III	30	5	top	5	BBT	30	54811.0
7/17/2012	III	30	5	top	5	INCO	3	9645.0
7/17/2012	III	30	5	top	5	LCK	284	5277.0
7/17/2012	III	30	5	top	5	LKH	60	7745.0
7/17/2012	III	30	5	top	5	LKT	1	145.0
7/17/2012	III	30	5	top	5	LKWF	210	65250.0
7/17/2012	III	30	5	top	5	LNSK	20	3160.0
7/17/2012	III	30	5	top	5	NPK	1	2220.0
7/17/2012	III	30	5	top	5	RDWF	10	1605.0
7/17/2012	III	30	5	top	5	SPT	1	20.0
7/17/2012	III	30	5	top	5	TP	27	117.0
7/17/2012	III	30	5	top	5	WY	4	3905.0
7/27/2012	III	30	28	top	5	BBT	3	2343.0
7/27/2012	III	30	28	bot	28	BBT	9	7305.0
7/27/2012	III	30	28	top	5	LCK	3	129.5
7/27/2012	III	30	28	bot	28	LCK	6	375.0
7/27/2012	III	30	28	top	5	LKH	1	84.5
7/27/2012	III	30	28	top	5	LKWF	4	2950.0
7/27/2012	III	30	28	bot	28	LKWF	5	3717.5
7/27/2012	III	30	28	bot	28	LNSK	3	3210.5
7/27/2012	III	30	28	top	5	LNSK	1	1120.0
7/27/2012	III	30	28	bot	28	SJCK	3	238.5
7/16/2012	III	30	12.2	top	5	BBT	6	6805.0
7/16/2012	III	30	12.2	bot	12.2	BBT	7	10850.0
7/16/2012	III	30	12.2	top	5	LCK	3	350.0
7/16/2012	III	30	12.2	top	5	LKH	2	58.0
7/16/2012	III	30	12.2	bot	12.2	LKH	6	575.0
7/16/2012	III	30	12.2	bot	12.2	LKWF	5	1220.0
7/16/2012	III	30	12.2	top	5	LKWF	20	9250.0
7/16/2012	III	30	12.2	top	5	LNSK	6	4480.0
7/16/2012	III	30	12.2	bot	12.2	LNSK	5	4125.0
7/16/2012	III	30	12.2	bot	12.2	SHSP	1	3.0
7/16/2012	III	30	12.2	bot	12.2	TP	4	34.0
7/11/2012	III	30	28.7	top	5	BBT	4	5980.0
7/11/2012	III	30	28.7	bot	28.7	BBT	11	18945.0
7/11/2012	III	30	28.7	bot	28.7	LCK	1	55.0
7/11/2012	III	30	28.7	top	5	LKH	1	66.0
7/11/2012	III	30	28.7	bot	28.7	LKWF	30	25532.0
7/11/2012	III	30	28.7	top	5	LKWF	10	9305.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/11/2012	III	30	28.7	bot	28.7	NPK	1	2289.0
7/24/2012	III	30	24	bot	24	BBT	4	5445.0
7/24/2012	III	30	24	bot	24	LCK	2	15.0
7/24/2012	III	30	24	bot	24	LKWF	7	6410.0
7/24/2012	III	30	24	bot	24	LNSK	1	1400.0
7/11/2012	III	30	6.1	top	5	BBT	5	3860.0
7/11/2012	III	30	6.1	top	5	CHUB	1	260.0
7/11/2012	III	30	6.1	top	5	GDI	1	365.0
7/11/2012	III	30	6.1	top	5	LCK	33	1095.0
7/11/2012	III	30	6.1	top	5	LKH	20	1740.0
7/11/2012	III	30	6.1	top	5	LKWF	75	19275.0
7/11/2012	III	30	6.1	top	5	LNSK	4	350.0
7/11/2012	III	30	6.1	top	5	NPK	4	6570.0
7/11/2012	III	30	6.1	top	5	SPT	1	25.8
7/11/2012	III	30	6.1	top	5	TP	44	885.0
7/11/2012	III	30	6.1	top	5	WY	1	805.0
7/25/2012	III	30	59	bot	59	BBT	8	7610.0
7/25/2012	III	30	59	p20	20	BBT	5	5020.0
7/25/2012	III	30	59	top	5	BBT	5	5920.0
7/25/2012	III	30	59	p20	20	LCK	9	560.0
7/25/2012	III	30	59	bot	59	LCK	14	935.0
7/25/2012	III	30	59	top	5	LCK	6	470.0
7/25/2012	III	30	59	p20	20	LKH	16	1330.0
7/25/2012	III	30	59	bot	59	LKH	11	4488.5
7/25/2012	III	30	59	bot	59	LKWF	9	10750.0
7/25/2012	III	30	59	top	5	LKWF	5	6060.0
7/25/2012	III	30	59	p20	20	LKWF	10	12970.0
7/25/2012	III	30	59	p20	20	SJCK	2	120.0
7/25/2012	III	30	59	top	5	SJCK	16	1210.0
7/24/2012	III	30	12.2	top	5	BBT	9	3225.0
7/24/2012	III	30	12.2	bot	12.2	BBT	5	2056.0
7/24/2012	III	30	12.2	top	5	LCK	1	120.0
7/24/2012	III	30	12.2	top	5	LKH	4	310.0
7/24/2012	III	30	12.2	bot	12.2	LKH	8	1395.0
7/24/2012	III	30	12.2	top	5	LKWF	21	14000.0
7/24/2012	III	30	12.2	bot	12.2	LKWF	20	13686.0
7/24/2012	III	30	12.2	top	5	LNSK	1	1210.0
7/24/2012	III	30	12.2	bot	12.2	LNSK	10	12920.0
7/13/2012	III	30	8	bot	8	BBT	8	4350.0
7/13/2012	III	30	8	bot	8	LCK	2	41.0
7/13/2012	III	30	8	bot	8	LKH	3	252.0
7/13/2012	III	30	8	bot	8	LKWF	10	4474.0
7/13/2012	III	30	8	bot	8	LNSK	9	6854.0
7/13/2012	III	30	8	bot	8	NPK	1	5570.0
7/13/2012	III	30	8	bot	8	TP	3	31.0
7/12/2012	III	30	6.1	bot	6.1	BBT	3	1936.0
7/12/2012	III	30	6.1	bot	6.1	GDI	2	559.0
7/12/2012	III	30	6.1	bot	6.1	LCK	3	11.0
7/12/2012	III	30	6.1	bot	6.1	LKH	2	45.0
7/12/2012	III	30	6.1	bot	6.1	LKWF	46	9290.0
7/12/2012	III	30	6.1	bot	6.1	LNSK	2	58.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/12/2012	III	30	6.1	bot	6.1	NPK	9	8159.0
7/12/2012	III	30	6.1	bot	6.1	SHSP	1	2.0
7/12/2012	III	30	6.1	bot	6.1	SJCK	1	112.0
7/12/2012	III	30	6.1	bot	6.1	TP	59	441.0
7/12/2012	III	30	6.1	bot	6.1	WY	2	950.0
7/31/2012	III	30	5	bot	5	BBT	1	337.0
7/31/2012	III	30	5	bot	5	INCO	1	6970.0
7/31/2012	III	30	5	bot	5	LKWF	15	11220.0
7/31/2012	III	30	8	bot	8	BBT	8	7535.0
7/31/2012	III	30	8	bot	8	LCK	2	22.0
7/31/2012	III	30	8	bot	8	LKH	1	175.0
7/31/2012	III	30	8	bot	8	LKWF	24	16156.0
7/31/2012	III	30	8	bot	8	LNSK	1	1430.0
8/1/2012	III	30	4	bot	4	INCO	2	331.0
8/1/2012	III	30	4	bot	4	LCK	8	16.5
8/1/2012	III	30	4	bot	4	LKH	24	923.0
8/1/2012	III	30	4	bot	4	LKWF	215	25365.0
8/1/2012	III	30	4	bot	4	LNSK	13	643.5
8/1/2012	III	30	4	bot	4	NPK	1	1205.0
8/1/2012	III	30	4	bot	4	TP	110	604.0
8/1/2012	III	30	4	bot	4	WY	3	2188.0
7/29/2016	III	30	33	bot	33	BBT	2	1307.0
7/29/2016	III	30	33	bot	33	INCO	1	6605.0
7/29/2016	III	30	33	top	5	INCO	1	8650.0
7/29/2016	III	30	33	top	5	LCK	12	330.0
7/29/2016	III	30	33	top	5	LKH	56	1765.0
7/29/2016	III	30	33	bot	33	LKH	27	3630.0
7/29/2016	III	30	33	top	5	LKT	1	7775.0
7/29/2016	III	30	33	bot	33	LKWF	39	23450.0
7/29/2016	III	30	33	top	5	LKWF	5	3960.0
7/30/2016	III	30	42	bot	42	BBT	10	10180.0
7/30/2016	III	30	42	p20	20	INCO	1	780.0
7/30/2016	III	30	42	top	5	INCO	2	6480.0
7/30/2016	III	30	42	p20	20	LCK	13	1730.0
7/30/2016	III	30	42	top	5	LKH	155	4510.0
7/30/2016	III	30	42	p20	20	LKH	597	18335.0
7/30/2016	III	30	42	bot	42	LKH	11	2125.0
7/30/2016	III	30	42	top	5	LKT	1	1490.0
7/30/2016	III	30	42	p20	20	LKWF	13	10020.0
7/30/2016	III	30	42	bot	42	LKWF	17	16475.0
7/30/2016	III	30	42	top	5	LKWF	3	3090.0
7/9/2016	III	30	21	bot	21	BBT	21	37360.0
7/9/2016	III	30	21	bot	21	INCO	4	19480.0
7/9/2016	III	30	21	top	5	INCO	2	10805.0
7/9/2016	III	30	21	bot	21	LCK	26	1058.0
7/9/2016	III	30	21	top	5	LCK	38	2565.0
7/9/2016	III	30	21	top	5	LKH	71	4929.0
7/9/2016	III	30	21	bot	21	LKH	33	6560.0
7/9/2016	III	30	21	top	5	LKT	1	3855.0
7/9/2016	III	30	21	bot	21	LKWF	70	28194.0
7/9/2016	III	30	21	top	5	LKWF	2	2440.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/29/2016	III	30	24	bot	24	BBT	20	22005.0
7/29/2016	III	30	24	top	5	INCO	2	15140.0
7/29/2016	III	30	24	bot	24	INCO	1	7865.0
7/29/2016	III	30	24	bot	24	LCK	5	145.0
7/29/2016	III	30	24	top	5	LKH	237	4690.0
7/29/2016	III	30	24	bot	24	LKH	100	10086.0
7/29/2016	III	30	24	top	5	LKT	1	3030.0
7/29/2016	III	30	24	bot	24	LKWF	29	18961.0
7/29/2016	III	30	24	top	5	LKWF	6	6110.0
7/29/2016	III	30	24	bot	24	LNSK	6	7220.0
7/28/2016	III	30	15	bot	15	BBT	4	3085.0
7/28/2016	III	30	15	top	5	INCO	2	5120.0
7/28/2016	III	30	15	bot	15	LCK	100	1965.0
7/28/2016	III	30	15	top	5	LCK	6	390.0
7/28/2016	III	30	15	top	5	LKH	83	1560.0
7/28/2016	III	30	15	bot	15	LKH	48	5500.0
7/28/2016	III	30	15	bot	15	LKT	1	11375.0
7/28/2016	III	30	15	bot	15	LKWF	35	21970.0
7/28/2016	III	30	15	top	5	LKWF	14	11140.0
7/28/2016	III	30	15	top	5	LNSK	38	36390.0
7/10/2016	III	30	30	bot	30	BBT	18	19725.0
7/10/2016	III	30	30	top	5	INCO	7	40755.0
7/10/2016	III	30	30	top	5	LCK	128	4185.0
7/10/2016	III	30	30	bot	30	LCK	5	1095.0
7/10/2016	III	30	30	top	5	LKH	52	10475.0
7/10/2016	III	30	30	bot	30	LKH	10	5950.0
7/10/2016	III	30	30	top	5	LKWF	15	11245.0
7/10/2016	III	30	30	bot	30	LKWF	15	15740.0
7/10/2016	III	30	30	top	5	LNSK	1	885.0
7/10/2016	III	30	30	bot	30	SJCK	3	171.0
7/8/2016	III	30	18	top	5	INCO	4	26823.0
7/8/2016	III	30	18	top	5	LCK	68	4204.0
7/8/2016	III	30	18	top	5	LKH	104	10741.0
7/8/2016	III	30	18	top	5	LKT	2	12106.0
7/8/2016	III	30	18	top	5	LKWF	6	6620.0
7/8/2016	III	30	18	top	5	LNSK	2	1656.0
7/8/2016	III	30	5	bot	5	BBT	3	2442.0
7/8/2016	III	30	5	bot	5	INCO	4	5155.0
7/8/2016	III	30	5	bot	5	LCK	18	403.0
7/8/2016	III	30	5	bot	5	LKH	49	1824.0
7/8/2016	III	30	5	bot	5	LKWF	61	20432.0
7/8/2016	III	30	5	bot	5	LNSK	14	7863.0
7/8/2016	III	30	5	bot	5	NPK	3	7430.0
7/8/2016	III	30	5	bot	5	SPT	1	5.0
7/8/2016	III	30	5	bot	5	TP	1	12.0
7/8/2016	III	30	5	bot	5	WY	2	910.0
7/10/2016	III	30	28	top	5	BBT	2	1105.0
7/10/2016	III	30	28	bot	28	BBT	10	12582.0
7/10/2016	III	30	28	top	5	INCO	1	5050.0
7/10/2016	III	30	28	top	5	LCK	191	9023.0
7/10/2016	III	30	28	bot	28	LKH	2	96.0

Cont. Appendix C.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/10/2016	III	30	28	top	5	LKH	49	20197.0
7/10/2016	III	30	28	bot	28	LKWF	13	11929.0
7/10/2016	III	30	28	top	5	LKWF	4	4115.0
7/10/2016	III	30	28	top	5	LNSK	1	875.0
7/10/2016	III	30	28	bot	28	SJCK	2	104.0
7/7/2016	III	30	16	top	5	INCO	3	15895.0
7/7/2016	III	30	16	top	5	LCK	478	12545.0
7/7/2016	III	30	16	top	5	LKH	39	13210.0
7/7/2016	III	30	16	top	5	LKWF	8	4305.0
7/7/2016	III	30	16	top	5	LNSK	5	5080.0
7/13/2016	III	30	24	bot	24	BBT	10	11665.0
7/13/2016	III	30	24	top	5	INCO	1	10805.0
7/13/2016	III	30	24	top	5	LCK	131	9375.0
7/13/2016	III	30	24	bot	24	LCK	1	90.0
7/13/2016	III	30	24	bot	24	LKH	6	450.0
7/13/2016	III	30	24	top	5	LKH	29	10465.0
7/13/2016	III	30	24	top	5	LKWF	5	3685.0
7/13/2016	III	30	24	bot	24	LKWF	21	21170.0
7/6/2016	III	30	15	bot	15	BBT	20	32420.0
7/6/2016	III	30	15	bot	15	INCO	1	6330.0
7/6/2016	III	30	15	bot	15	LCK	16	826.0
7/6/2016	III	30	15	bot	15	LKH	101	10523.0
7/6/2016	III	30	15	bot	15	LKWF	80	51620.0
7/6/2016	III	30	15	bot	15	LNSK	19	16929.0
8/3/2016	III	30	59	top	5	BBT	2	1385.0
8/3/2016	III	30	59	bot	59	BBT	10	7940.0
8/3/2016	III	30	59	top	5	INCO	3	28248.0
8/3/2016	III	30	59	p20	20	LCK	2	85.0
8/3/2016	III	30	59	top	5	LCK	20	1500.0
8/3/2016	III	30	59	bot	59	LCK	7	675.0
8/3/2016	III	30	59	top	5	LKH	6	205.0
8/3/2016	III	30	59	bot	59	LKH	11	1070.0
8/3/2016	III	30	59	p20	20	LKH	1	480.0
8/3/2016	III	30	59	p20	20	LKWF	2	905.0
8/3/2016	III	30	59	top	5	LKWF	6	5090.0
7/6/2016	III	30	8	bot	8	BBT	17	21379.0
7/6/2016	III	30	8	bot	8	LCK	14	1619.0
7/6/2016	III	30	8	bot	8	LKH	78	6457.0
7/6/2016	III	30	8	bot	8	LKWF	72	30231.0
7/6/2016	III	30	8	bot	8	LNSK	3	2663.0
8/3/2016	III	30	5	bot	5	BBT	10	8880.0
8/3/2016	III	30	5	bot	5	INCO	1	10280.0
8/3/2016	III	30	5	bot	5	LKH	3	255.0
8/3/2016	III	30	5	bot	5	LKWF	11	6770.0
8/3/2016	III	30	5	bot	5	LNSK	4	3035.0
7/14/2016	III	30	8	bot	8	BBT	11	5680.0
7/14/2016	III	30	8	bot	8	LCK	1	170.0
7/14/2016	III	30	8	bot	8	LKH	1	72.0
7/14/2016	III	30	8	bot	8	LKWF	14	10970.0
7/14/2016	III	30	8	bot	8	LNSK	10	14440.0

Appendix D. *Total catch as individuals and weight of fish caught with experimental gillnets in the Northern Basin (FMAs IV and V) of Great Slave Lake, 2011 – 2016.*

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/1/2012	IV	40	73.8	bot	73.8	BBT	1	1255.0
8/1/2012	IV	40	73.8	p30	30	BBT	4	5030.0
8/1/2012	IV	40	73.8	bot	73.8	LCK	1	52.5
8/1/2012	IV	40	73.8	p30	30	LCK	1	112.0
8/1/2012	IV	40	73.8	bot	73.8	LKH	5	442.0
8/1/2012	IV	40	73.8	p30	30	LKH	5	485.0
8/1/2012	IV	40	73.8	bot	73.8	LKWF	5	4493.0
8/1/2012	IV	40	73.8	p30	30	LKWF	2	1915.0
8/1/2012	IV	40	73.8	bot	73.8	SJCK	13	1093.5
8/1/2012	IV	40	73.8	p30	30	SJCK	12	1156.5
8/16/2014	IV	40	26.5	bot	26.5	BBT	10	6830.0
8/16/2014	IV	40	26.5	top	5	BBT	1	1530.0
8/16/2014	IV	40	26.5	top	5	LKH	3	710.0
8/16/2014	IV	40	26.5	bot	26.5	LKH	6	1490.0
8/16/2014	IV	40	26.5	bot	26.5	LKWF	69	55050.0
8/16/2014	IV	40	26.5	top	5	LKWF	3	3080.0
8/16/2014	IV	40	26.5	top	5	LNSK	2	1360.0
8/16/2014	IV	40	26.5	top	5	NPK	2	6620.0
8/16/2014	IV	40	26.5	bot	26.5	SJCK	1	60.0
8/16/2014	IV	40	26.5	top	5	WY	19	15950.0
8/16/2014	IV	40	22.6	bot	22.6	BBT	10	8183.0
8/16/2014	IV	40	22.6	top	5	LCK	9	180.0
8/16/2014	IV	40	22.6	top	5	LKH	29	2040.0
8/16/2014	IV	40	22.6	bot	22.6	LKH	41	13327.0
8/16/2014	IV	40	22.6	bot	22.6	LKWF	90	54142.0
8/16/2014	IV	40	22.6	top	5	LKWF	13	11080.0
8/16/2014	IV	40	22.6	bot	22.6	LNSK	1	786.0
8/16/2014	IV	40	22.6	top	5	LNSK	3	3610.0
8/16/2014	IV	40	22.6	top	5	NPK	2	7520.0
8/16/2014	IV	40	22.6	top	5	WY	7	3630.0
8/15/2014	IV	40	6.7	bot	6.7	LCK	12	85.0
8/15/2014	IV	40	6.7	bot	6.7	LKH	3	73.0
8/15/2014	IV	40	6.7	bot	6.7	LKWF	37	18960.0
8/15/2014	IV	40	6.7	bot	6.7	LNSK	9	2400.0
8/15/2014	IV	40	6.7	bot	6.7	NPK	7	14180.0
8/15/2014	IV	40	6.7	bot	6.7	TP	3	23.0
8/15/2014	IV	40	6.7	bot	6.7	WY	36	24840.0
8/15/2014	IV	40	42.7	bot	42.7	BBT	6	3594.0
8/15/2014	IV	40	42.7	top	5	LCK	7	200.0
8/15/2014	IV	40	42.7	top	5	LKH	7	250.0
8/15/2014	IV	40	42.7	bot	42.7	LKH	9	2430.0
8/15/2014	IV	40	42.7	top	5	LKT	1	1240.0
8/15/2014	IV	40	42.7	bot	42.7	LKWF	23	20800.0
8/15/2014	IV	40	42.7	top	5	LKWF	2	1940.0
8/15/2014	IV	40	42.7	top	5	LNSK	10	6980.0
8/15/2014	IV	40	42.7	bot	42.7	SJCK	2	210.0
8/15/2014	IV	40	42.7	top	5	WY	5	2850.0
7/30/2014	IV	40	2.1	bot	2	LKH	11	500.0
7/30/2014	IV	40	2.1	bot	2	LKWF	38	24360.0
7/30/2014	IV	40	2.1	bot	2	NPK	10	19100.0

Cont. Appendix D.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/30/2014	IV	40	2.1	bot	2	TP	52	303.0
7/30/2014	IV	40	2.1	bot	2	WY	3	4140.0
8/13/2014	IV	40	23.8	bot	23.8	BBT	17	10860.0
8/13/2014	IV	40	23.8	top	5	INCO	1	5420.0
8/13/2014	IV	40	23.8	bot	23.8	LCK	30	1080.0
8/13/2014	IV	40	23.8	top	5	LKH	117	2450.0
8/13/2014	IV	40	23.8	bot	23.8	LKH	68	8060.0
8/13/2014	IV	40	23.8	bot	23.8	LKWF	12	8210.0
8/13/2014	IV	40	23.8	bot	23.8	RDWF	1	140.0
7/30/2014	IV	40	46.6	bot	46.6	BBT	8	6520.0
7/30/2014	IV	40	46.6	top	5	LCK	2	240.0
7/30/2014	IV	40	46.6	p20	20	LCK	10	1330.0
7/30/2014	IV	40	46.6	bot	46.6	LCK	2	330.0
7/30/2014	IV	40	46.6	top	5	LKH	5	240.0
7/30/2014	IV	40	46.6	p20	20	LKH	2	180.0
7/30/2014	IV	40	46.6	bot	46.6	LKH	24	7740.0
7/30/2014	IV	40	46.6	bot	46.6	LKT	1	4580.0
7/30/2014	IV	40	46.6	bot	46.6	LKWF	18	15920.0
7/30/2014	IV	40	46.6	p20	20	LKWF	14	12400.0
7/30/2014	IV	40	46.6	bot	46.6	SJCK	1	70.0
7/29/2014	IV	40	5.8	bot	5	LKWF	17	8500.0
7/29/2014	IV	40	5.8	bot	5	LNSK	4	1380.0
7/29/2014	IV	40	5.8	bot	5	NPK	4	8590.0
7/29/2014	IV	40	5.8	bot	5	SHSP	1	7.0
7/29/2014	IV	40	5.8	bot	5	TP	30	1668.0
7/29/2014	IV	40	5.8	bot	5	WY	3	5190.0
8/14/2014	IV	40	29.3	bot	29.3	BBT	8	4820.0
8/14/2014	IV	40	29.3	top	5	BBT	1	1620.0
8/14/2014	IV	40	29.3	top	5	LCK	18	270.0
8/14/2014	IV	40	29.3	bot	29.3	LCK	3	450.0
8/14/2014	IV	40	29.3	top	5	LKH	39	720.0
8/14/2014	IV	40	29.3	bot	29.3	LKH	15	3990.0
8/14/2014	IV	40	29.3	top	5	LKT	2	4510.0
8/14/2014	IV	40	29.3	bot	29.3	LKWF	65	40140.0
8/14/2014	IV	40	29.3	top	5	LKWF	1	1350.0
7/29/2014	IV	40	59.7	p20	20	BBT	1	190.0
7/29/2014	IV	40	59.7	p20	20	LCK	7	580.0
7/29/2014	IV	40	59.7	top	5	LCK	2	180.0
7/29/2014	IV	40	59.7	top	5	LKH	25	850.0
7/29/2014	IV	40	59.7	p20	20	LKH	4	240.0
7/29/2014	IV	40	59.7	top	5	LKT	2	7390.0
7/29/2014	IV	40	59.7	bot	59.7	LKWF	23	17857.0
7/29/2014	IV	40	59.7	p20	20	LKWF	6	5970.0
7/29/2014	IV	40	59.7	top	5	LKWF	2	2030.0
7/29/2014	IV	40	59.7	top	5	SJCK	1	30.0
7/29/2014	IV	40	59.7	bot	59.7	SJCK	1	60.0
7/28/2014	IV	40	35.5	top	5	BBT	1	870.0
7/28/2014	IV	40	35.5	bot	35.5	BBT	22	21200.0
7/28/2014	IV	40	35.5	bot	35.5	LCK	2	90.0
7/28/2014	IV	40	35.5	top	5	LCK	1	130.0
7/28/2014	IV	40	35.5	top	5	LKH	1	50.0

Cont. Appendix D.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/28/2014	IV	40	35.5	bot	35.5	LKH	17	1150.0
7/28/2014	IV	40	35.5	top	5	LKT	1	6320.0
7/28/2014	IV	40	35.5	bot	35.5	LKWF	7	6840.0
7/28/2014	IV	40	35.5	bot	35.5	SJCK	14	1110.0
8/11/2014	IV	40	42.4	bot	42.4	BBT	12	7860.0
8/11/2014	IV	40	42.4	top	5	LCK	6	200.0
8/11/2014	IV	40	42.4	top	5	LKH	26	2590.0
8/11/2014	IV	40	42.4	bot	42.4	LKH	16	5710.0
8/11/2014	IV	40	42.4	top	5	LKT	3	7390.0
8/11/2014	IV	40	42.4	bot	42.4	LKWF	24	17950.0
8/11/2014	IV	40	42.4	top	5	LKWF	1	1100.0
8/11/2014	IV	40	42.4	top	5	LNSK	1	500.0
8/11/2014	IV	40	42.4	top	5	SJCK	1	40.0
8/11/2014	IV	40	42.4	bot	42.4	SJCK	9	640.0
7/28/2014	IV	40	137.1	top	5	BBT	1	700.0
7/28/2014	IV	40	137.1	top	5	LCK	2	50.0
7/28/2014	IV	40	137.1	bot	137.1	LKH	1	450.0
7/28/2014	IV	40	137.1	top	5	LKWF	1	700.0
7/28/2014	IV	40	137.1	p30	30	LKWF	1	1140.0
7/28/2014	IV	40	137.1	bot	137.1	SHSP	4	50.0
7/28/2014	IV	40	137.1	p30	30	SHSP	2	30.0
7/28/2014	IV	40	137.1	bot	137.1	SLSP	2	40.0
7/27/2014	IV	40	109.7	bot	109.7	BBT	6	4759.0
7/27/2014	IV	40	109.7	top	5	LCK	82	3080.0
7/27/2014	IV	40	109.7	bot	109.7	LKH	9	5950.0
7/27/2014	IV	40	109.7	top	5	LKH	1	710.0
7/27/2014	IV	40	109.7	top	5	LKT	1	3280.0
7/27/2014	IV	40	109.7	bot	109.7	LKWF	4	3360.0
7/27/2014	IV	40	109.7	bot	109.7	SJCK	2	70.0
7/24/2014	IV	40	17.7	top	5	BBT	1	810.0
7/24/2014	IV	40	17.7	bot	17.7	BBT	1	1620.0
7/24/2014	IV	40	17.7	top	5	LCK	2	34.0
7/24/2014	IV	40	17.7	bot	17.7	LKH	1	7.0
7/24/2014	IV	40	17.7	top	5	LKH	2	27.0
7/24/2014	IV	40	17.7	top	5	LKT	1	2960.0
7/24/2014	IV	40	17.7	bot	17.7	LKWF	7	3557.0
7/24/2014	IV	40	17.7	top	5	LKWF	21	12561.0
7/24/2014	IV	40	17.7	bot	17.7	LNSK	1	148.0
7/24/2014	IV	40	17.7	top	5	LNSK	9	2220.0
7/24/2014	IV	40	17.7	top	5	NPK	4	7483.0
8/12/2014	IV	40	67.4	top	5	BBT	4	3100.0
8/12/2014	IV	40	67.4	bot	67.4	BBT	6	7160.0
8/12/2014	IV	40	67.4	top	5	LKH	12	680.0
8/12/2014	IV	40	67.4	top	5	LKT	1	2660.0
8/12/2014	IV	40	67.4	bot	67.4	LKWF	32	21735.0
8/12/2014	IV	40	67.4	top	5	LKWF	63	50155.0
8/12/2014	IV	40	67.4	bot	67.4	SJCK	3	180.0
8/12/2014	IV	40	67.4	top	5	SJCK	5	350.0
8/10/2014	IV	40	150.9	bot	150.9	BBT	2	440.0
8/10/2014	IV	40	150.9	p30	30	BBT	5	1470.0
8/10/2014	IV	40	150.9	top	5	BBT	1	890.0

Cont. Appendix D.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
8/10/2014	IV	40	150.9	top	5	INCO	1	8680.0
8/10/2014	IV	40	150.9	top	5	LCK	7	210.0
8/10/2014	IV	40	150.9	top	5	LKH	1	690.0
8/10/2014	IV	40	150.9	top	5	LKT	3	10410.0
8/10/2014	IV	40	150.9	p30	30	LKT	1	3790.0
8/10/2014	IV	40	150.9	top	5	LKWF	1	720.0
8/10/2014	IV	40	150.9	bot	150.9	LKWF	4	3850.0
8/10/2014	IV	40	150.9	p30	30	LKWF	1	990.0
8/10/2014	IV	40	150.9	bot	150.9	SJCK	6	350.0
8/10/2014	IV	40	150.9	bot	150.9	SLSP	1	8.0
7/27/2014	IV	40	111.3	top	5	LCK	1	36.0
7/27/2014	IV	40	111.3	top	5	LKWF	3	3970.0
7/27/2014	IV	40	111.3	bot	111.3	LKWF	1	1470.0
7/27/2014	IV	40	111.3	p30	30	SHSP	1	20.0
7/27/2014	IV	40	111.3	bot	111.3	SHSP	2	50.0
7/27/2014	IV	40	111.3	top	5	SJCK	1	80.0
7/9/2014	IV	40	23.5	bot	23.5	BBT	6	5660.0
7/9/2014	IV	40	23.5	top	5	GDI	1	136.0
7/9/2014	IV	40	23.5	top	5	LCK	10	543.0
7/9/2014	IV	40	23.5	bot	23.5	LCK	43	3326.0
7/9/2014	IV	40	23.5	bot	23.5	LKT	1	574.0
7/9/2014	IV	40	23.5	top	5	LKT	4	10110.0
7/9/2014	IV	40	23.5	bot	23.5	LKWF	18	6112.0
7/9/2014	IV	40	23.5	bot	23.5	LNSK	4	1986.0
7/9/2014	IV	40	23.5	bot	23.5	TP	1	12.0
7/25/2014	IV	40	33.8	bot	33.8	BBT	10	5858.0
7/25/2014	IV	40	33.8	top	5	BBT	1	2120.0
7/25/2014	IV	40	33.8	bot	33.8	LCK	4	161.0
7/25/2014	IV	40	33.8	top	5	LCK	25	1630.0
7/25/2014	IV	40	33.8	bot	33.8	LKH	3	380.0
7/25/2014	IV	40	33.8	top	5	LKH	3	1480.0
7/25/2014	IV	40	33.8	top	5	LKT	1	4310.0
7/25/2014	IV	40	33.8	bot	33.8	LKT	1	6890.0
7/25/2014	IV	40	33.8	bot	33.8	LKWF	11	9050.0
7/25/2014	IV	40	33.8	bot	33.8	SJCK	2	130.0
7/26/2014	IV	40	63.7	bot	63.7	BBT	7	7250.0
7/26/2014	IV	40	63.7	top	5	BBT	5	8345.0
7/26/2014	IV	40	63.7	top	5	INCO	4	16610.0
7/26/2014	IV	40	63.7	p30	30	LCK	4	83.0
7/26/2014	IV	40	63.7	top	5	LCK	106	4914.0
7/26/2014	IV	40	63.7	bot	63.7	LKH	2	190.0
7/26/2014	IV	40	63.7	top	5	LKH	4	2200.0
7/26/2014	IV	40	63.7	p30	30	LKWF	1	610.0
7/26/2014	IV	40	63.7	top	5	LKWF	4	2570.0
7/26/2014	IV	40	63.7	bot	63.7	LKWF	8	9120.0
7/26/2014	IV	40	63.7	p30	30	SJCK	1	63.0
7/26/2014	IV	40	63.7	bot	63.7	SJCK	4	299.0
7/26/2014	IV	40	63.1	bot	63.1	BBT	4	4840.0
7/26/2014	IV	40	63.1	top	5	BBT	3	4940.0
7/26/2014	IV	40	63.1	top	5	INCO	1	3790.0
7/26/2014	IV	40	63.1	top	5	LCK	5	2830.0

Cont. Appendix D.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/26/2014	IV	40	63.1	top	5	LKH	148	4661.0
7/26/2014	IV	40	63.1	top	5	LKWF	4	2600.0
7/26/2014	IV	40	63.1	bot	63.1	LKWF	2	2400.0
7/26/2014	IV	40	63.1	bot	63.1	SJCK	6	480.0
7/21/2014	IV	40	44.2	bot	44.2	BBT	7	9511.0
7/21/2014	IV	40	44.2	bot	44.2	LCK	6	544.0
7/21/2014	IV	40	44.2	top	5	LKH	11	445.0
7/21/2014	IV	40	44.2	bot	44.2	LKH	19	6285.0
7/21/2014	IV	40	44.2	top	5	LKT	5	23480.0
7/21/2014	IV	40	44.2	bot	44.2	LKT	6	31429.0
7/21/2014	IV	40	44.2	bot	44.2	LKWF	20	12860.0
7/21/2014	IV	40	44.2	bot	44.2	SJCK	3	170.0
7/20/2014	IV	40	42.4	bot	42.4	BBT	29	24863.0
7/20/2014	IV	40	42.4	top	5	BBT	1	2470.0
7/20/2014	IV	40	42.4	top	5	INCO	9	48130.0
7/20/2014	IV	40	42.4	top	5	LCK	26	1560.0
7/20/2014	IV	40	42.4	bot	42.4	LKH	9	428.0
7/20/2014	IV	40	42.4	top	5	LKH	22	6741.0
7/20/2014	IV	40	42.4	bot	42.4	LKT	1	3070.0
7/20/2014	IV	40	42.4	top	5	LKT	2	7100.0
7/20/2014	IV	40	42.4	bot	42.4	LKWF	13	11610.0
7/20/2014	IV	40	42.4	top	5	LKWF	1	1340.0
7/20/2014	IV	40	42.4	top	5	LNSK	1	800.0
7/20/2014	IV	40	42.4	bot	42.4	SJCK	7	400.0
7/24/2014	IV	40	34.1	top	5	BBT	6	2588.0
7/24/2014	IV	40	34.1	bot	34.1	BBT	11	8768.0
7/24/2014	IV	40	34.1	top	5	INCO	9	22590.0
7/24/2014	IV	40	34.1	top	5	LCK	337	6758.0
7/24/2014	IV	40	34.1	bot	34.1	LCK	1	46.0
7/24/2014	IV	40	34.1	bot	34.1	LKH	5	394.0
7/24/2014	IV	40	34.1	top	5	LKH	79	7397.0
7/24/2014	IV	40	34.1	bot	34.1	LKWF	13	9641.0
7/24/2014	IV	40	34.1	top	5	LKWF	11	11160.0
7/24/2014	IV	40	34.1	top	5	LNSK	3	1916.0
7/24/2014	IV	40	34.1	bot	34.1	SJCK	3	221.0
7/24/2014	IV	40	34.1	top	5	WY	2	2450.0
7/23/2014	IV	40	10.1	bot	5	BBT	7	9830.0
7/23/2014	IV	40	10.1	bot	5	LCK	17	1691.0
7/23/2014	IV	40	10.1	bot	5	LKH	28	3354.0
7/23/2014	IV	40	10.1	bot	5	LKT	7	41590.0
7/23/2014	IV	40	10.1	bot	5	LKWF	38	14406.0
7/23/2014	IV	40	10.1	bot	5	SJCK	2	129.0
7/15/2014	IV	40	15.2	top	5	BBT	8	5096.0
7/15/2014	IV	40	15.2	top	5	LKH	5	388.0
7/15/2014	IV	40	15.2	top	5	LKWF	11	9911.0
7/15/2014	IV	40	15.2	top	5	SJCK	5	354.0
7/15/2014	IV	40	39.6	bot	39.6	BBT	24	17629.0
7/15/2014	IV	40	39.6	bot	39.6	INCO	10	60491.0
7/15/2014	IV	40	39.6	bot	39.6	LCK	68	2735.0
7/15/2014	IV	40	39.6	bot	39.6	LKH	49	8825.0
7/15/2014	IV	40	39.6	bot	39.6	LKT	1	4160.0

Cont. Appendix D.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/15/2014	IV	40	39.6	bot	39.6	LKWF	5	5560.0
7/15/2014	IV	40	39.6	bot	39.6	WY	1	520.0
7/23/2014	IV	40	83.8	top	5	BBT	1	304.0
7/23/2014	IV	40	83.8	bot	83.8	BBT	11	10600.0
7/23/2014	IV	40	83.8	top	5	INCO	2	2406.0
7/23/2014	IV	40	83.8	top	5	LCK	1	175.0
7/23/2014	IV	40	83.8	top	5	LKH	219	2416.0
7/23/2014	IV	40	83.8	bot	83.8	LKH	4	194.0
7/23/2014	IV	40	83.8	bot	83.8	LKWF	14	14193.0
7/23/2014	IV	40	83.8	bot	83.8	SJCK	10	709.0
7/14/2014	IV	40	28.2	bot	28.2	BBT	1	860.0
7/14/2014	IV	40	28.2	bot	28.2	LCK	9	330.0
7/14/2014	IV	40	28.2	bot	28.2	LKH	39	2399.0
7/14/2014	IV	40	28.2	bot	28.2	LKWF	56	27969.0
7/14/2014	IV	40	28.2	bot	28.2	NPK	3	9186.0
7/14/2014	IV	40	28.2	bot	28.2	TP	1	9.0
7/14/2014	IV	40	28.2	bot	28.2	WY	1	61.0
8/5/2016	IV	40	84	top	5	BBT	6	4240.0
8/5/2016	IV	40	84	bot	84	BBT	10	9955.0
8/5/2016	IV	40	84	top	5	INCO	4	17955.0
8/5/2016	IV	40	84	top	5	LCK	89	2755.0
8/5/2016	IV	40	84	top	5	LKH	4	325.0
8/5/2016	IV	40	84	bot	84	LKH	4	410.0
8/5/2016	IV	40	84	top	5	LKT	2	3770.0
8/5/2016	IV	40	84	top	5	LKWF	11	10045.0
8/5/2016	IV	40	84	bot	84	LKWF	2	1935.0
8/5/2016	IV	40	84	p30	30	LKWF	2	2155.0
8/4/2016	IV	40	55	bot	55	BBT	6	2375.0
8/4/2016	IV	40	55	top	5	BBT	11	9170.0
8/4/2016	IV	40	55	top	5	INCO	5	31870.0
8/4/2016	IV	40	55	p20	20	INCO	3	20305.0
8/4/2016	IV	40	55	p20	20	LCK	4	85.0
8/4/2016	IV	40	55	top	5	LCK	11	1325.0
8/4/2016	IV	40	55	p20	20	LKH	1	40.0
8/4/2016	IV	40	55	bot	55	LKH	11	1075.0
8/4/2016	IV	40	55	top	5	LKH	4	625.0
8/4/2016	IV	40	55	top	5	LKWF	22	17735.0
8/4/2016	IV	40	55	bot	55	LKWF	17	15005.0
8/4/2016	IV	40	55	p20	20	LKWF	7	7825.0
8/4/2016	IV	40	55	top	5	LNSK	3	1790.0
8/4/2016	IV	40	4.2	bot	4.2	GDI	1	120.0
8/4/2016	IV	40	4.2	bot	4.2	LKWF	2	75.0
8/4/2016	IV	40	4.2	bot	4.2	LNSK	2	180.0
8/4/2016	IV	40	4.2	bot	4.2	NPK	3	10175.0
8/4/2016	IV	40	4.2	bot	4.2	SPT	9	50.0
8/4/2016	IV	40	4.2	bot	4.2	TP	31	100.0
8/4/2016	IV	40	4.2	bot	4.2	WY	24	27435.0
7/15/2015	V	50	14.9	top	5	GDI	1	302.0
7/15/2015	V	50	14.9	top	5	INCO	3	16220.0
7/15/2015	V	50	14.9	top	5	LCK	25	2020.0
7/15/2015	V	50	14.9	top	5	LKH	76	4880.0

Cont. Appendix D.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/15/2015	V	50	14.9	top	5	LKWF	2	1817.0
7/15/2015	V	50	14.9	top	5	WY	2	2430.0
7/14/2015	V	50	48.5	top	5	BBT	7	7794.0
7/14/2015	V	50	48.5	bot	48.5	BBT	9	13300.0
7/14/2015	V	50	48.5	bot	48.5	LKH	1	42.0
7/14/2015	V	50	48.5	top	5	LKH	15	1330.0
7/14/2015	V	50	48.5	bot	48.5	LKWF	10	11080.0
7/14/2015	V	50	48.5	top	5	LKWF	7	8120.0
7/14/2015	V	50	48.5	top	5	SJCK	13	980.0
7/14/2015	V	50	48.5	bot	48.5	SJCK	4	392.5
7/14/2015	V	50	9.1	top	5	BBT	12	12740.0
7/14/2015	V	50	9.1	top	5	INCO	4	7941.0
7/14/2015	V	50	9.1	top	5	LCK	39	4434.0
7/14/2015	V	50	9.1	top	5	LKH	8	81.0
7/14/2015	V	50	9.1	top	5	LKWF	28	24754.0
7/14/2015	V	50	9.1	top	5	LNSK	18	14604.0
7/14/2015	V	50	9.1	top	5	SJCK	3	171.0
7/14/2015	V	50	9.1	top	5	WY	5	2083.0
7/23/2015	V	50	58.8	top	5	BBT	3	2560.0
7/23/2015	V	50	58.8	p20	20	BBT	1	2190.0
7/23/2015	V	50	58.8	bot	58.8	LCK	1	129.0
7/23/2015	V	50	58.8	top	5	LCK	3	448.0
7/23/2015	V	50	58.8	p20	20	LKH	6	99.5
7/23/2015	V	50	58.8	top	5	LKH	2	797.0
7/23/2015	V	50	58.8	p20	20	LKT	2	8290.0
7/23/2015	V	50	58.8	p20	20	LKWF	1	789.0
7/23/2015	V	50	58.8	top	5	LKWF	3	3300.0
7/23/2015	V	50	58.8	top	5	SJCK	6	471.0
7/15/2015	V	50	30.8	top	5	BBT	4	1580.0
7/15/2015	V	50	30.8	bot	30.8	BBT	4	4292.0
7/15/2015	V	50	30.8	top	5	INCO	11	40791.0
7/15/2015	V	50	30.8	bot	30.8	LCK	2	169.0
7/15/2015	V	50	30.8	top	5	LCK	58	6892.0
7/15/2015	V	50	30.8	top	5	LKH	143	5892.0
7/15/2015	V	50	30.8	bot	30.8	LKH	3	1053.0
7/15/2015	V	50	30.8	bot	30.8	LKT	1	9350.0
7/15/2015	V	50	30.8	bot	30.8	LKWF	8	2099.0
7/15/2015	V	50	30.8	top	5	LKWF	68	39894.0
7/23/2015	V	50	16.8	top	5	LKH	10	286.0
7/23/2015	V	50	16.8	top	5	LKT	2	7270.0
7/23/2015	V	50	16.8	top	5	LKWF	7	4624.0
7/11/2015	V	50	15.8	top	5	INCO	7	20371.0
7/11/2015	V	50	15.8	top	5	LKH	77	1161.5
7/11/2015	V	50	15.8	top	5	LKWF	12	4854.0
7/11/2015	V	50	15.8	top	5	NPK	3	6380.0
7/11/2015	V	50	15.8	top	5	WY	4	4001.0
7/16/2015	V	50	18.3	top	5	BBT	2	3721.0
7/16/2015	V	50	18.3	top	5	INCO	4	5085.0
7/16/2015	V	50	18.3	top	5	LCK	137	3165.5
7/16/2015	V	50	18.3	top	5	LKH	113	2900.0
7/16/2015	V	50	18.3	top	5	LKWF	34	30273.0

Cont. Appendix D.

Lift Date	FMA	Area code	Grid depth (m)	Setting		Species code	Individual	Weight (g)
				Stratum	Depth (m)			
7/16/2015	V	50	18.3	top	5	LNSK	14	13080.0
7/16/2015	V	50	18.3	top	5	WY	10	9426.0
7/24/2015	V	50	105.2	bot	105.2	ASP	9	82.0
7/24/2015	V	50	105.2	bot	105.2	BBT	1	380.0
7/24/2015	V	50	105.2	bot	105.2	LKH	1	14.0
7/24/2015	V	50	105.2	top	5	LKH	2	98.0
7/24/2015	V	50	105.2	bot	105.2	LKT	1	3560.0
7/24/2015	V	50	105.2	top	5	LKWF	1	786.0
7/24/2015	V	50	105.2	bot	105.2	LKWF	1	930.0
7/24/2015	V	50	36	top	5	BBT	1	77.0
7/24/2015	V	50	36	bot	36	BBT	3	1980.0
7/24/2015	V	50	36	top	5	LCK	1	105.0
7/24/2015	V	50	36	top	5	LKH	2	74.0
7/24/2015	V	50	36	top	5	LKT	1	5100.0
7/24/2015	V	50	36	top	5	LKWF	4	1660.0
7/24/2015	V	50	36	bot	36	LKWF	2	1545.0
7/24/2015	V	50	36	bot	36	SJCK	2	163.0
7/16/2015	V	50	13.1	top	5	GDI	11	3460.0
7/16/2015	V	50	13.1	top	5	INCO	7	999.5
7/16/2015	V	50	13.1	top	5	LCK	4	82.0
7/16/2015	V	50	13.1	top	5	LKH	10	197.5
7/16/2015	V	50	13.1	top	5	LKWF	2	2040.0
7/16/2015	V	50	13.1	top	5	TP	1	110.0
7/16/2015	V	50	13.1	top	5	WY	14	6374.0
7/21/2015	V	50	4.9	bot	4.9	GDI	54	19042.5
7/21/2015	V	50	4.9	bot	4.9	LKDS	4	13.0
7/21/2015	V	50	4.9	bot	4.9	LKH	26	681.0
7/21/2015	V	50	4.9	bot	4.9	LKWF	43	10627.5
7/21/2015	V	50	4.9	bot	4.9	NPK	16	37970.0
7/21/2015	V	50	4.9	bot	4.9	SPT	53	355.0
7/21/2015	V	50	4.9	bot	4.9	WY	40	9910.0
7/21/2015	V	50	3.7	bot	3.7	GDI	12	2718.0
7/21/2015	V	50	3.7	bot	3.7	LKH	2	65.0
7/21/2015	V	50	3.7	bot	3.7	LKWF	17	5125.5
7/21/2015	V	50	3.7	bot	3.7	NPK	4	2723.0
7/21/2015	V	50	3.7	bot	3.7	SPT	35	210.5
7/21/2015	V	50	3.7	bot	3.7	TP	7	26.5
7/21/2015	V	50	3.7	bot	3.7	WY	128	30691.5