



2013 UPPER ILLINOIS WATERWAY FISHERIES INVESTIGATION RM 274.4-296.0

Prepared for:

NRG Midwest Generation, LLC
529 East 135th St.
Romeoville, IL 60446

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November 2014

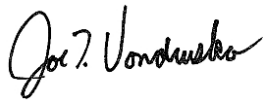
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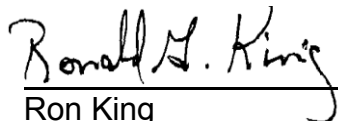
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EXECUTIVE SUMMARY

Alternative thermal limits for the Upper Illinois Waterway (UIW) have been in effect at the I-55 Bridge (IPCB Order and Opinion, AS96-10, dated 3 October 1996) since 1997. The primary objective of the study described herein was to determine if the alternative thermal limits have had an adverse affect on the UIW fish community during the past 17 study years (when the more liberal thermal limits were in effect) compared to 1994 and 1995 when thermal limits were more restrictive.

From May through September 2013, the UIW fish community was assessed at 21 locations along approximately 22 miles of the UIW extending from River Mile (RM) 274.4 in the lower Des Plaines River upstream to RM 296.0 in the Chicago Sanitary and Ship Canal (CSSC). To facilitate data analyses and interpretation of results, the study area was segregated into four segments (from upstream to downstream): 1) lower Lockport Pool; 2) Brandon Pool; 3) Upstream I-55; and 4) Downstream I-55. Fish collections were made by electrofishing (21 locations) and seining (14 locations). Physicochemical measurements were made during each electrofishing collection. In addition to the base fisheries program that emphasized fish distribution and abundance, studies were conducted to assess fish condition and the incidence of external disease or anomalies. Data from each of the four segments were compared among 14 study years (1994, 1995, 2000-2002, and 2005-2013), the years when sampling was conducted in all four segments. Where appropriate, data from the Upstream I-55 and Downstream I-55 segments were also compared among 19 study years (1994, 1995, and 1997-2013).

At least some of the electrofishing and seining community measures were likely reduced in all four segments during 2013 due to: 1) an unprecedented amount of additional electrofishing and netting studies conducted by the Asian Carp Regional Coordinating Committee's Monitoring and Response Workgroup throughout the study area, and 2) dense mats of duckweed/algae and dense beds of submergent/emergent macrophytes that reduced the effectiveness of electrofishing and/or seining at nearly all sampling locations within the Upstream I-55 and Downstream I-55 segments from August through September, and caused low DOs at backwater Location 418 (mouth of Grant Creek) during the August surveys.

Surface or mid-depth water temperatures at the electrofishing locations in 2013 ranged from 18.8°C to 36.2°C, and mean water temperatures at these locations ranged from 23.1 to 30.5°C. Mean water temperatures at the two locations within or just downstream of the Joliet Stations' discharge canals were, on average, 2.3 to 7.4°C warmer than at the other 19 electrofishing locations. Mean May water temperatures for each segment in 2013 were among the warmest of the past 14 study years. Conversely, mean summertime (i.e., 15 June-August) water temperatures in 2013 were among the coolest to date within each segment. No consistent longitudinal trend among the four segments has been evident for mean May temperatures among the 14 years compared; whereas, the longitudinal trend for mean summertime temperatures in 2013 was the same as that observed during most previous years in that temperatures were similar among the lower Lockport Pool, Brandon Pool, and Downstream I-55 segments, and slightly warmer in the Upstream I-55 segment.

Surface or mid-depth dissolved oxygen (DO) concentrations during this study ranged from 2.9 to 18.3 ppm. The Secondary Contact Standard of 4 ppm (35 Ill. Adm. Code 302.405) applies to the lower Lockport Pool, Brandon Pool, and Upstream I-55 segments. In 2013, 28 percent of the DO readings in lower Lockport Pool were below this Standard and the majority of them occurred during the June, early July, and late September surveys, which coincided with combined sewer overflows that occurred just before each of them. Conversely, the Brandon Pool segment had only five values (10 percent) that were below this Standard in 2013 and all measurements in the Upstream I-55 segment were above this Standard in 2013. Prior to 2011, DO concentrations within the Downstream I-55 segment were consistently above the General Use Standards of 5 ppm (May through July) or 3.5 ppm (August and September). However, during each of the past three years, there were two to six measurements per year that were below the General Use Standards in this segment; all of which occurred at backwater locations. These atypically low DO values occurred where respiration-decomposition processes from algae and macrophytes (particularly decaying duckweed) lowered the DO concentrations.

The mean DO values from the lower Lockport Pool and Brandon Pool segments in 2013 were within the range of their respective values observed during the previous 13 study years, whereas mean DO for the Upstream I-55 segment was the highest among years compared. Conversely, the 2013 mean DO within the Downstream I-55 segment was the second lowest among years compared. Annual mean values within the Downstream I-55 segment have, however, been consistently greater than or equal to 6.5 ppm during the 14 years compared. The longitudinal pattern for annual mean DO values was identical in nine of the 14 years compared, in that there was a noticeable stepwise increase in DO from upstream to downstream among all four segments. In 2005 and from 2010 through 2013, there were also stepwise increases from lower Lockport Pool to the Upstream I-55 segment, but then slight to appreciable declines in the Downstream I-55 segment. The declines within this segment during the past four years were due to the respiration-decomposition processes described above and were particularly prevalent within the mouth of Grant Creek.

A total of 280 gear efforts (168 electrofishing and 112 seining) was expended at 21 locations during the 2013 UIW study. These efforts produced 14,302 fish representing 60 species and two hybrids. Two state-listed species were collected, the endangered Pallid Shiner and the threatened Banded Killifish. The first records of Banded Killifish for this monitoring program occurred within the upper three segments in 2012 and it was collected from the all four segments in 2013. In addition, Rosyface Shiner was collected for the first time from the Upstream I-55 segment and Spotted Gar was collected for the first time during this monitoring program. Bluegill, Bluntnose Minnow, Gizzard Shad, Green Sunfish, Largemouth Bass, Pumpkinseed, and Round Goby numerically dominated the combined catch. By weight, the combined catch was dominated by Common Carp and Channel Catfish, and to a lesser extent by Gizzard Shad, Largemouth Bass, Smallmouth Buffalo, Freshwater Drum, and Bluegill.

The 60 species collected in 2013 was within range of the number reported during the previous 13 study years. The number of species collected each year since 2000 was higher than observed in 1994 and 1995. The higher species richness values have primarily been due to the collection of more cyprinid (minnow), centrarchid (sunfish), and percid (darter and perch) species.

Although more species have been collected in recent years, the data show that the fish community has typically been dominated by the same species each year. For example, Gizzard Shad, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Bluegill, Orangespotted Sunfish, and Largemouth Bass have ranked among the 10 most abundant species in at least 10 of the past 14 study years. The only major difference, with respect to community dominants, is that the relative abundance of bluegill during the past 12 study years has been markedly higher than in 1994 and 1995. This increase was likely due to greater macrophyte abundance in the study area, particularly since 2007.

Comparisons of 2013 catch data among the four segments revealed that species richness and fish abundance was lower within the two segments upstream of Brandon Road Lock and Dam than within the two segments downstream of it. The 2013 data also showed that Gizzard Shad, Emerald Shiner, and highly tolerant taxa collectively composed a higher percentage of the catches upstream of Brandon Road Lock and Dam than downstream of it, and that these percentages were the lowest or second lowest to date in each segment. This longitudinal trend has also been apparent during all but two previous years. Based on these measures, the fish community upstream of Brandon Road Lock and Dam continues to be noticeably poorer than the fish community is downstream of it.

As has been the case since 1993, exotic species (e.g., Common Carp) were excluded from the longitudinal and interyear analyses of catch-per-unit-effort (CPE), modified Index of Well-Being (IWBmod), and species richness values because of the confounding influence they exert on catch rates (both by weight and number), particularly within the two segments upstream of Brandon Road Lock and Dam. In 2013, electrofishing CPEs of native species, IWBmod scores, and native species richness values were significantly lower within the two segments upstream of Brandon Road Lock and Dam than within the two segments downstream of it. Thus, longitudinal relationships of the electrofishing catch parameters in 2013 were identical to those observed in all previous study years in that the fish communities in the lower Lockport Pool and Brandon Pool segments continue to be significantly poorer compared to the communities in the Upstream I-55 and Downstream I-55 segments. The seining CPE and species richness data have typically corroborated the longitudinal trends observed for the electrofishing data.

Interyear analyses of the electrofishing data revealed that: 1) the fish community in lower Lockport Pool has improved and is currently significantly better than it was in 1994 and 1995; however, it is still very poor; 2) the fish community in Brandon Pool has also improved compared to 1994 and 1995, but is also still very poor; 3) the fish community in the Upstream I-55 segment during the past 17 years is better than that present in 1994 and 1995; 4) electrofishing community measures were noticeably lower in the Downstream I-55 segment from 2011 through 2013, but were not related to operation of the upstream power plants; and 5) mean 2013 CPE, IWBmod, and native species richness values from the three upstream segments were either significantly higher or statistically similar to most previous years.

The electrofishing and seining community measures were likely reduced in one or more segments from 2007 through 2013 due to a variety of factors that were not related to operation of the power plants. The factors that either individually or collectively contributed to these reduced measures included: 1) the December 2009 rotenone application in lower Lockport Pool, 2)

additional electrofishing and netting studies being conducted by the Asian Carp Regional Coordinating Committee's Monitoring and Response Workgroup throughout the study area from 2010 through 2013, and 3) dense mats of duckweed/algae, dense beds of submergent macrophytes, and/or the expansion of American lotus that has reduced the effectiveness of electrofishing and/or seining, particularly at backwater locations in the Upstream and Downstream I-55 segments from 2007 through 2013.

Fish condition was evaluated using relative weight (Wr). Longitudinal and/or interyear differences in mean Wr values were evaluated for Longnose Gar, Gizzard Shad, Smallmouth Buffalo, Yellow Bullhead, Channel Catfish, Green Sunfish, Pumpkinseed, Bluegill, Smallmouth Bass, Largemouth Bass, and Freshwater Drum. Although there have been significant differences in mean Wr values among segments and years, at least 91 percent of the mean Wr values analyzed were 90 or higher. This demonstrates that when significant differences occurred, they were due primarily to the extent in which mean Wr values exceeded the target value of 100 and not due to suboptimal fish condition. In addition, Wr values of this magnitude suggest that the populations of these species have nearly always been in average or better than average condition, and that there do not appear to have been significant health, food availability, and/or feeding relationship problems within the study area. In fact, only nine percent of the annual mean Wr values analyzed for interyear differences were low enough (i.e., less than 90) to suggest that there may have been a health, food availability, and/or feeding relationship problem. Longnose Gar, Smallmouth Buffalo, and Smallmouth Bass are the only species that have routinely had Wr values less than 90, which is consistent with results from other studies in the Midwest. This suggests that the Wr equations for these three species may not be appropriate for populations in certain geographic areas such as the UIW.

All fish collected in 2013 were examined for external anomalies. DELT (deformities, erosions, lesions, and tumors) anomalies are the group of anomalies most relevant for assessment purposes because a clear relationship has been established between the incidence rate (percentage) of DELT anomalies and water quality. The incidence rates of DELT anomalies in 2013 increased from lower Lockport Pool (3.8 percent) downstream to the Upstream I-55 segment (7.6 percent); incidence rates then decreased in the Downstream I-55 segment to 2.4 percent. This longitudinal pattern is similar to that observed in all previous years. Comparisons of DELT affliction rates among study years revealed that affliction rates in the lower Lockport Pool and Brandon Pool segments generally declined from 2005 or 2006 through 2012, but increased in 2013. However, the 2013 incidence rates in these two segments were lower than five of the previous 13 years and markedly lower compared to 1994 and 1995. For the Upstream I-55 and Downstream I-55 segments, affliction rates have been consistently lower during the past 17 years than in 1994 and 1995, and were the lowest to date within both segments in 2012. Affliction rates in these two segments have generally been declining since 2004. Despite the overall recent declines in affliction rates, DELT anomaly affliction rates continue to be abnormally high throughout the study area, particularly for bottom feeders. The disproportionately higher rates of affliction for bottom feeders suggest that the contaminated substrates within the study area are likely responsible for many of the DELTs observed on these species.

Significant findings of this study were:

- Mean May water temperatures for each segment in 2013 were the highest or second highest among the past 14 study years; whereas, mean summertime temperatures for each segment in 2013 were among the lowest to date. The longitudinal trend for mean summertime temperatures in 2013 was the same as that observed during most previous study years.
- DO concentrations within the Brandon Pool, Upstream I-55, and Downstream I-55 segments during 2013 were nearly always above the applicable DO Standards. However, DO concentrations in the lower Lockport Pool segment continue to be, at times, only marginal to support a warmwater fishery. Low DO values also occurred in May and August of 2013 at backwater locations within the Downstream I-55 segment, which were caused by the respiration-decomposition processes from algae and macrophytes, particularly decaying duckweed.
- A variety of factors not related to the operation of the power plants are likely affecting the electrofishing and seining results, and confounding interpretation of those results.
- More species have been collected from the study area in recent years, but the fish community continues to be dominated by the same species each year: Gizzard Shad, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Bluegill, Orangespotted Sunfish, and Largemouth Bass. However, catches of Emerald Shiner, Bluntnose Minnow, and Orangespotted Sunfish have been below normal during the past two or three years, particularly within the Downstream I-55 5 segment where adverse sampling conditions have been most prevalent.
- Two state-listed species were collected in 2013, the endangered Pallid Shiner and the threatened Banded Killifish. This represents the twelfth year in which Pallid Shiner has been collected from the Upstream I-55 and/or Downstream I-55 segments, and it has been collected during 12 of the past 14 years. Banded Killifish was collected from all four segments in 2013 and represents only the second year that it has been collected within the study area.
- The fish communities in the lower Lockport Pool and Brandon Pool segments continue to be significantly poorer than in the Upstream I-55 and Downstream I-55 segments.
- The fish communities in the lower Lockport Pool and Brandon Pool segments have been very poor in each of the past 14 study years.
- The fish community in the Upstream I-55 segment during the past 17 years is better than the one that was present during 1994 and 1995.
- Mean CPE, IWBmod, and native species richness values from the three upstream segments in 2013 were either significantly higher or statistically similar to most previous years.

- Community measures within the Downstream I-55 segment were below normal from 2011 through 2013, but these below normal results were not related to operation of the upstream power plants.
- Based on mean W_r values, there do not appear to have been any significant health, food availability, and/or feeding relationship problems within the study area for the species analyzed.
- DELT anomaly affliction rates increased in all segments during 2013, but they were within historical ranges and still markedly lower than observed in 1994 and 1995. DELT affliction rates continue to be abnormally high (particularly for bottom feeders) throughout the study area.
- Collectively, the data herein show that the adjusted thermal limits, which went into effect in early 1997 at the I-55 Bridge, have not had an adverse effect on the fish communities in either the Upstream or Downstream I-55 segments.

1. INTRODUCTION

In October 1996, the Illinois Pollution Control Board (IPCB) approved Commonwealth Edison Company's (ComEd) alternative thermal limitations at the I-55 Bridge (IPCB Order and Opinion, AS96-10, dated 3 October 1996). Pursuant to an agreement between ComEd and regulatory agencies, a fisheries study has been conducted in the lower Des Plaines River, between the Brandon Road Lock and Dam and its confluence with the Kankakee River, for the period of May through September during the past 17 years (EA 1998-2005, 2007, 2008a,b, 2010a, 2011, 2012, 2013, 2014a, and this report). In 2000, the study area was expanded to include portions of the Chicago Sanitary and Ship Canal (CSSC) and Des Plaines River upstream of Brandon Road Lock and Dam that had been sampled from 1984 through 1995 (EA 1993-1995 and 1996b). Midwest Generation is sponsoring water quality and fisheries studies in order to provide current information that addresses concerns about these portions of the Upper Illinois Waterway (UIW). Midwest Generation acquired the Fisk (retired on 30 August 2012), Crawford (retired on 28 August 2012), Will County, and Joliet Generating Stations from ComEd in December 1999. Since the responsibility for the I-55 alternative thermal limitations was also legally transferred to Midwest Generation as part of the acquisition process, Midwest Generation has continued the fisheries study¹. The IPCB supported the transfer of the alternative thermal limits from ComEd to Midwest Generation (IPCB Order and Opinion, AS96-10, dated 16 March 2000). This report summarizes the methodologies and results of the 2013 monitoring effort.

To understand and evaluate the fish community within the study area, it is important to understand the morphology, history, and evolution of the entire UIW. In 1871, the flow of the Chicago River was reversed in order to divert sanitary wastes from the City of Chicago away from Lake Michigan to protect the drinking water source for the City. The polluted water of the Chicago River was directed through the Illinois and Michigan (I&M) Canal into the Des Plaines River and subsequently into the Illinois River at Hennepin. The CSSC was opened in 1900, bringing with it several thousand cubic feet per second of diverted Lake Michigan water (Talkington 1991). The CSSC was cut into the channels of the South Branch of the Chicago River and the I&M Canal through the Chicago Portage area. At that point, it becomes a separate third channel parallel to the Des Plaines River and the old I&M Canal. About 40 miles downstream, it enters the Des Plaines River in the Brandon Pool between Lockport and Joliet.

In 1919, the state began constructing the Illinois Waterway, which created a new and even larger channel through the Chicago River, the CSSC, the Des Plaines River, and the Illinois River, shaping them into a continuous navigation route at least nine feet deep and at least 300 feet wide from Lake Michigan to the Mississippi River (Talkington 1991). The waterway project required construction of seven major locks and a new set of relatively high dams in the 1930s, including the 40-ft high Lockport Lock and Dam on the CSSC just south of Lockport and the 34-ft high Brandon Road Lock and Dam just south of Joliet at Brandon Road. The 22-ft high Dresden Island Lock and Dam is about two miles downstream of the Kankakee and Des Plaines Rivers confluence (where the Illinois River begins).

As a result of these extensive modifications, the UIW is now (and has been for over 80 years) a series of reservoirs or impoundments maintained principally to facilitate barge traffic and convey

¹ Midwest Generation has been owned by NRG Energy, Inc. since April 2014.

treated effluents from wastewater treatment plants. Pool levels are controlled and flows are manipulated frequently. This control reduces the frequency and magnitude of natural, seasonal flushing events. Dresden Pool (i.e., the Upstream I-55 and Downstream I-55 segments) is a flooded river drainage that has a fair amount of “natural” shoreline area and a number of natural tributaries. The upper two pools (Lockport and Brandon) are mostly artificial, straight dredged channels with nearly vertical sides. Due to the channelized nature of the UIW, habitat is, on average, poor. Habitat is poorest in Lockport Pool, marginally better in Brandon Pool, and somewhat better in Dresden Pool, but it is still only poor to fair in these pools. Habitats in the UIW are poor to fair because of: 1) sparse amounts of riffle/run habitat; 2) sparse amounts of clean, hard substrates (i.e., gravel and cobble); 3) excessive siltation; 4) channelization; 5) poor riparian and floodplain areas; and 6) a general lack of instream cover, particularly in Lockport and Brandon Pools (EA 1996a,b,c; Midwest Generation and EA 2003; EA 2008c). Instream cover, in terms of aquatic macrophytes, has been more prevalent throughout the study area since 2011 (EA 2013 and 2014a). In addition, there is a wide variety of historic and current sources of pollutants and contaminated sediments (Illinois EPA 1992; Sparks and Ross 1992; EA 1996d; Burton 1995; Midwest Generation and EA 2003; EA 2008d).

The U.S. Army Corps of Engineers’ (USACE) Electric Dispersal Barrier complex is located at the upstream end of the study area at River Mile (RM) 296.25 (Figure 1). The Nonindigenous Aquatic Nuisance Prevention and Control Act of 1990, as amended by the National Invasive Species Act of 1996, authorized the Assistant Secretary of the USACE to examine potential methods to create an aquatic nuisance species dispersal barrier in the CSSC. In November 1997, Congress appropriated \$500,000 to begin work on the project (USACE 2010). The Electric Dispersal Barrier complex consists of three electrical barriers: Demonstration Barrier, Barrier IIA, and Barrier IIB. The Demonstration Barrier has been operational since 2002 and significant repairs to it were completed in October 2008. In 2013, construction began on a permanent electric barrier (i.e., Barrier I), which was authorized by Congress as an upgrade of the Demonstration Barrier. Barrier IIA was placed into full-time operation in 2009. Construction of Barrier IIB was completed in December 2010 and it was activated in April 2011 (<http://www.lrc.usace.army.mil/Missions/CivilWorksProjects/ANSPortal/Barrier.aspx>; accessed June 2014).

The 2013 fish study consisted of monitoring the fish community at 21 locations over a 21.6-mile study area that extended from RM 274.4 in the lower Des Plaines River upstream to RM 296.0 in the CSSC. The objectives of the 2013 UIW fish study were to:

- determine the species composition and relative abundance of fish within four segments of the study area: 1) lower Lockport Pool (the Secondary Contact waters of the CSSC upstream of Lockport Lock and Dam); 2) Brandon Pool (the Secondary Contact waters of the CSSC and lower Des Plaines River between the Lockport and Brandon Road Locks and Dams); 3) Upstream I-55 (the Secondary Contact waters of the lower Des Plaines River from the I-55 Bridge upstream to the Brandon Road Lock and Dam); and 4) Downstream I-55 (the General Use waters of the lower Des Plaines River from the I-55 Bridge downstream to its confluence with the Kankakee River);

- determine longitudinal trends of composition, distribution, and abundance of fishes with respect to segment and compare the 1994, 1995, and 1997-2013 results; and
- determine longitudinal patterns of fish condition and anomalies in the study area and compare the 1994, 1995, and 1997-2013 results.

This study represents the 36th year (1977-1995 and 1997-2013) for which Commonwealth Edison or Midwest Generation-sponsored fish studies have been conducted within the Upstream I-55 and Downstream I-55 segments. It also represents the 24th year (1984-1995, 2000-2002, and 2005-2013) for which similarly sponsored studies have been conducted within the lower Lockport Pool and Brandon Pool segments.

2. METHODS

Fish sampling was conducted at 21 locations along 21.6 miles of the UIW (RM 274.4 to RM 296.0). Three Midwest Generation generating stations are located within this reach of the UIW: Will County Station (RM 295.6); Joliet Station #9 (RM 284.9); and Joliet Station #29 (RM 284.6) (Figures 1 and 2). Sampling was conducted once in early May, once in early June, and twice per month in July, August, and September 2013.

2.1 DESCRIPTION OF SAMPLING GEAR

2.1.1 Electrofishing

Electrofishing was conducted at all 21 locations using a boat-mounted electrofishing system energized by a 230-volt, 5,000-watt, three-phase AC generator. Each electrofishing zone was 500 m long. Electrofishing was conducted in a downstream direction at 16 of the 21 locations. The other five locations were sampled by a combination of upstream and downstream electrofishing due to there being either no current (i.e., Locations 408, 414, and 418) or occasionally, very swift current (i.e., Locations 304 and 402). Electrofishing began no earlier than 0.5 hours after sunrise and finished no later than 0.5 hours before sunset. The sampling crew consisted of a boat driver and a netter. Both individuals utilized long-handled dip nets with 3/16-inch (4.8 mm) Ace mesh for catching stunned fish.

2.1.2 Seining

Seining was conducted at 14 locations using a straight seine that was 25-feet (7.6 m) long by six-feet (1.8 m) deep with 3/16-inch (4.8 mm) Ace mesh. Seining was conducted at fewer locations than electrofishing because seining was not possible at several locations due to the presence of vertical walls and/or very soft substrates. Sampling distance depended upon the seinable area available at each location and, to the extent possible, was kept constant during each sampling period. If electrofishing and seining were conducted in the same area on the same day, seining was conducted first and at least one hour elapsed before electrofishing was conducted. Sampling areas were consistent with those of previous years.

2.2 DESCRIPTION OF SAMPLING LOCATIONS

The study area was segregated into four segments (from upstream to downstream): 1) lower Lockport Pool (the Secondary Contact waters of the CSSC upstream of Lockport Lock and Dam); 2) Brandon Pool (the Secondary Contact waters of the CSSC and lower Des Plaines River between the Lockport and Brandon Road Locks and Dams); 3) Upstream I-55 (the Secondary Contact waters of the lower Des Plaines River from the I-55 Bridge upstream to the Brandon Road Lock and Dam); and 4) Downstream I-55 (the General Use waters of the lower Des Plaines River from the I-55 Bridge downstream to its confluence with the Kankakee River). Will County Station is located in the lower Lockport Pool segment and Joliet Stations #9 and #29 are located in the Upstream I-55 segment.

The 21 sampling locations were distributed among the four segments as follows: lower Lockport Pool – four locations; Brandon Pool – six locations; Upstream I-55 – seven locations; and Downstream I-55 – four locations (Figures 1 and 2). Each sampling location is described below. References to left and right banks are with respect to facing downstream.

2.2.1 Lower Lockport Pool Locations

Location 301 – Romeo Road Bridge (RM 296.0) – Main Channel

The electrofishing zone begins approximately 100 m downstream of the Romeo Road Bridge and extends downstream along the left bank for 500 m. The entire location consists of a vertical concrete canal wall, which precludes seining.

Location 302 – Will County Station Discharge (RM 295.4) – Thermally Enhanced – Main Channel

Electrofishing consists of sampling the Will County Station discharge canal (90 m) and a 410 m segment along the opposite (left) bank downstream of the discharge canal. Seining is not conducted at Location 302 because the entire location consists of a vertical concrete canal wall.

Location 302A – Downstream Route 7 Bridge (RM 292.5) – Main Channel Border

This location is along the right bank approximately 350 m downstream of the Route 7 Bridge. Electrofishing begins approximately 100 m upstream of several sunken barges and continues downstream, “skirting” the barges both on the shore and channel sides. The zone ends approximately 100 m downstream of the barges, a total of 500 m. Seining is conducted upstream of the sunken barges where the substrate is more firm. All riparian vegetation adjacent to this location, including mature shrubs and trees, was removed in 2012:



Near the Upstream End of the Electrofishing Location Looking Downstream, 6 August 2012.

Location 302B – Route 7 Bridge (RM 293.0) – Main Channel Border

The 500 m electrofishing zone is located along the right bank near the Route 7 Bridge. Electrofishing begins approximately 440 m upstream of the bridge and ends approximately 120 m downstream of the bridge at a chain-link fence. The area adjacent to a sunken barge (~60 m) is not sampled. Seining is not conducted at Location 302B because of very soft and/or boulder/cobble substrates.

2.2.2 Brandon Pool Locations

Location 303 – Downstream of Lockport Lock and Dam (RM 290.8) – Main Channel

The electrofishing zone is located along the right bank, beginning at the furthest downstream mooring cell and continuing downstream for 500 m. Seining is not conducted at Location 303 because the entire location consists of a vertical rock wall.

Location 304 – Mouth of Upper Des Plaines River (RM 290.3) – Tributary Mouth

Electrofishing is conducted along both banks. For the left bank, electrofishing begins approximately 310 m upstream of the railroad bridge and extends downstream for 280 m, ending at the upstream end of the rip-rap bank. For the right bank, electrofishing begins directly across the river from the start of the left bank's zone and extends downstream for 220 m. Seining is conducted near the mid-point of the right bank's electrofishing zone.

Location 305 – Railroad Bridge (RM 290.5) – Main Channel Border

Electrofishing begins 500 m upstream of the railroad bridge and extends downstream along the left bank to the bridge. Seining is conducted near the downstream end of the electrofishing zone.

Location 306 – Ruby Street Bridge West Bank (RM 289.3) – Main Channel Border

This location is approximately 970 m upstream of the Ruby Street Bridge along the right bank. Electrofishing begins 110 m upstream of the embedded barges, at a small discharge, and ends opposite and slightly upstream of the mouth of the I&M Canal (approximately 80 m upstream of a concrete outfall structure). Electrofishing is **not** conducted along the embedded barges. Seining is conducted downstream of the embedded barges near a chain link fence.

Location 307 – Ruby Street Bridge East Bank (RM 288.9) – Main Channel Border

Electrofishing begins approximately 260 m upstream of the mouth of the I&M Canal and extends downstream to Ruby Street Bridge (500 m). The vertical concrete wall upstream of the mouth of the I&M Canal is **not** electrofished. In addition, electrofishing is **not** conducted in the mouth of the canal, but is conducted across the canal mouth underneath the bridge. Seining is conducted approximately 130 m upstream of Ruby Street Bridge where the bank makes an abrupt bend.

Location 309 – Directly Upstream of Brandon Road Dam, South Bank (RM 286.8) – Main Channel Border

The 500 m electrofishing zone is along the left bank of the river in the shallow (two to three feet deep) littoral area adjacent to the Joliet East Wastewater Treatment Plant. The start of the electrofishing zone is approximately 180 m downstream of the I-80 Bridge. Seining is not conducted at Location 309 because the entire location consists of a vertical concrete wall and the substrate is extremely soft.

2.2.3 Upstream I-55 Locations

Location 402 – Brandon Dam Tailwater (RM 285.5)

Electrofishing is conducted along both banks at Location 402. The left bank is sampled by “skirting” a shallow, clay flat. This zone begins at the second duck blind upstream of the “mouth” of the tailwater and continues downstream to the end of the clay flat, a distance of 340 m. An additional 160 m is sampled along the right bank, beginning just downstream of a gravel riffle and ending at the downstream point of a peninsula. Seining is conducted along the left bank near the first duck blind upstream of the “mouth”. Dense beds of submergent macrophytes likely had an adverse effect on electrofishing results from this location during the late August and September surveys:



Right Bank Electrofishing Zone, 27 August 2013

Location 402A – Joliet Stations #9 and #29, Upstream of Both Discharge Canals (RM 285.1) – Main Channel Border

Electrofishing begins approximately 70 m upstream of Joliet Station #9’s intake and extends downstream along the left bank for 340 m, ending at a small tree approximately 90 m upstream of the mouth of Joliet Station #9’s discharge canal. The area immediately in front of the intake (~50 m) is **not** sampled. An additional 160 m is electrofished along the right bank directly upstream of the aerial bridge. Seining is not conducted at this location.

Location 403 – Joliet Stations #9 and #29 Discharge Canals (RM 284.9 [#9] and RM 284.6 [#29]) – Thermally Enhanced – Main Channel Border

Electrofishing is conducted for 250 m in both canals, along the right banks. Seining is not conducted. Physicochemical parameters are measured in both canals. In Joliet Station #29’s canal, measurements are made upstream of the cooling towers’ outfall and the entire 250 m electrofishing zone is also upstream of this outfall.

The 24 supplemental cooling towers at Joliet Station #29 are used on an as-needed basis in order to assist in maintaining compliance with both near-field and far-field thermal limits, while optimizing megawatt loading during peak power demand periods.

Location 403A – Caterpillar Co., Downstream of Both Discharge Canals (RM 283.8) – Thermally Enhanced – Main Channel Border

Electrofishing is conducted for 250 m along each bank. As such, this location is sampled in the same manner as the Joliet Stations' discharge canals (i.e., Location 403) and provides near-field data downstream of both discharges. The upstream end of the right bank electrofishing zone is located approximately 400 m upstream of a 42-inch storm water outfall. The start of the left bank electrofishing zone is located across the river and slightly upstream of the start of the right bank electrofishing zone. Physicochemical parameters are measured at the upstream end of both electrofishing zones. Seining is conducted along the right bank, approximately 80 m downstream from the end of the right bank's electrofishing zone. The seining location was moved approximately 190 m upstream in 2008 due to removal of riparian vegetation and "bank shaping" as depicted in the photograph provided below:



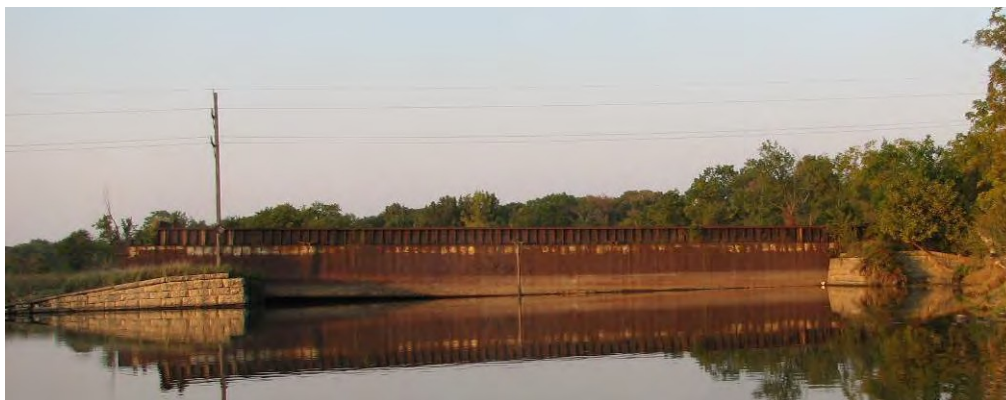
Dense beds of submergent macrophytes likely had an adverse effect on electrofishing results from this location during the late August and September surveys.

Location 404A – Flint Hills Resources, LP-Joliet Plant (RM 280.5) – Main Channel Border

This location is along the right bank of the river, just upstream of Treats Island. Electrofishing begins 100 m downstream of Flint Hills Resources' dock and extends downstream for 500 m. Seining is conducted near the mid-point of the electrofishing zone. As observed at Locations 402 and 403A, dense beds of submergent macrophytes at this location likely had an adverse effect on electrofishing results during the late August and September surveys.

Location 405 – Treats Island (RM 279.7) – Slough

The electrofishing zone is along the left bank beginning approximately 710 m upstream of the mouth of the Jackson Creek Diversion Channel and extending downstream for 500 m. Seining is conducted at a gravel bar located near the mouth of the Jackson Creek Diversion Channel. A major flood event occurred during 13-17 September 2008. During this period, an abandoned barge broke loose, drifted into the side channel, and continues to block the side channel as depicted below (downstream side of barge):



As depicted below, a sufficient amount woody debris and sediment has accumulated over the past five years that has promoted establishment of terrestrial vegetation along the upstream side of the barge. Since the electrofishing and seining zones are located downstream of this barge, the mesohabitat designation of this location was changed from side channel to slough in 2010.



Dense beds of submergent macrophytes and creeping water primrose along with dense mats of duckweed/algae likely had an adverse effect on the electrofishing and seining results at Location 405 from mid-July through early September:



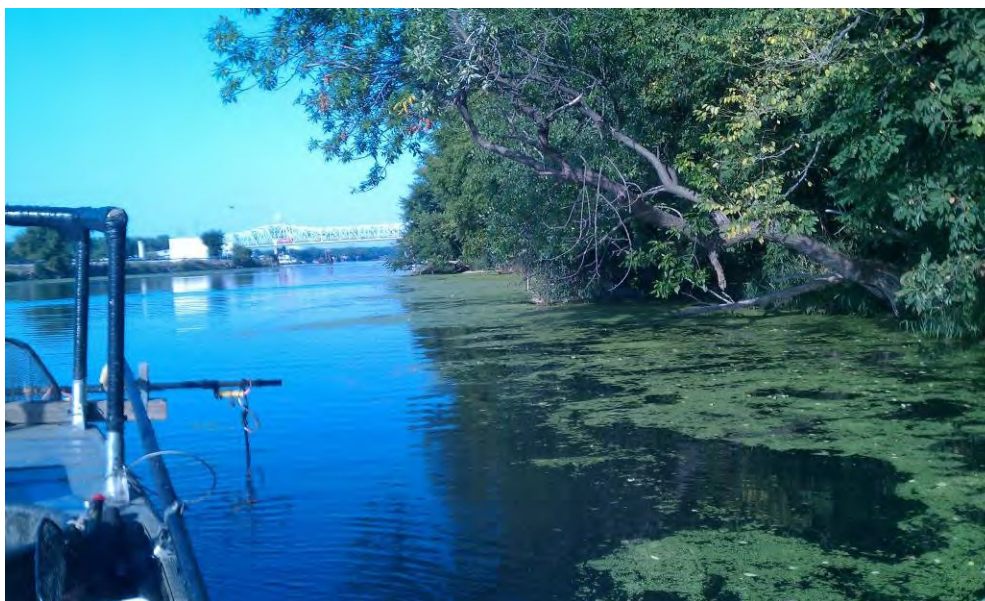
Mid-point of Electrofishing Zone, 16 July 2013



Mid-Point of Electrofishing Zone, 15 August 2013

Location 408 – Jackson Creek Cut-Off (RM 278.3) – Slough

Electrofishing is conducted along both banks at this location. The left bank electrofishing zone begins approximately 60 m upstream of the mouth of the Jackson Creek Cut-Off and ends at the earthen dam's trash racks, a sampling distance of 350 m. Electrofishing is not conducted along ExxonMobil's intake (~ 40 m). Depending on the elevation of the lower Des Plaines River, water flows through the trash racks upstream into the cut-off, and at other times downstream into the mouth of the cut-off. The right bank electrofishing zone begins approximately 50 m downstream of the earthen dam and continues toward the mouth for 150 m, ending approximately 60 m upstream of the mouth. Seining is conducted along the right bank, opposite ExxonMobil's intake. However, dense submergent vegetation along with dense mats of duckweed and algae precluded seining within this area on 27 August. During this sampling event, seining was conducted just downstream of ExxonMobil's intake. It was apparent from mid-August through early September that the dense aquatic vegetation and duckweed/algal mats had a negative effect on the electrofishing and seining results:



Right Bank Electrofishing Zone, 16 August 2013

2.2.4 Downstream I-55 Locations

The electrofishing and seining results at all four locations within this segment were negatively affected by dense beds of macrophytes and/or very dense mats of duckweed/algae from mid-August through September, as depicted in the location-specific photographs provided below.

Location 412A – Moose Island West Bank of River (RM 276.5) – Main Channel Border

Electrofishing begins adjacent to a Will County Forest Preserve building near the upstream end of the island and extends downstream for 500 m, ending near the downstream tip of the island. Seining is conducted beneath the transmission lines. Sampling results from this location were negatively impacted primarily by dense mats of duckweed/algae from mid-August through September:



Mid-Point of Electrofishing Zone, 16 August 2013



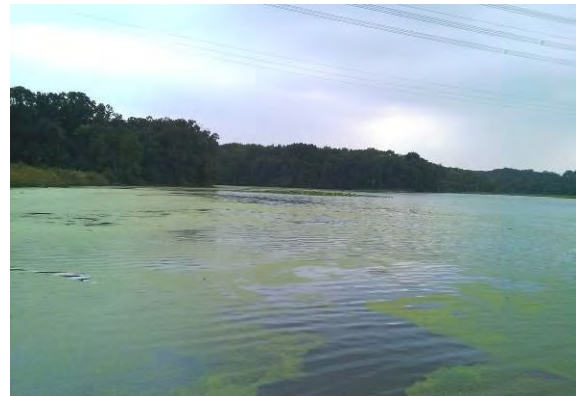
Start of Electrofishing Zone, 11 September 2013

Location 414 – Moose Island Slough (RM 275.9)

The electrofishing zone begins at the downstream end of Moose Island and continues upstream along the island for 500 m. Seining is conducted along the southern tip of Moose Island. This location's sampling results were negatively affected by dense mats of duckweed/algae from mid-July through September:



Start of Electrofishing Zone Facing Upstream, 16 August 2013



Mid-Point of Electrofishing Zone Facing Downstream, 28 August 2013

Location 418 – Mouth of Grant Creek (RM 274.8) – Slough

This location is south of the Grant Creek Cut-Off. Electrofishing is conducted along both banks. The zone along the east bank begins 250 m upstream of the Des Plaines River Road Bridge and ends at the bridge. The zone along the west bank begins approximately 50 m upstream of the bridge and continues upstream for 250 m. Seining is conducted along the east bank near the start of the electrofishing zone on that bank. The American lotus bed, which had historically been confined to the upstream portion of the mouth, expanded rapidly into the electrofishing and seining sampling areas from 2007 through 2011 (Figure 3). As such, the mesohabitat designation of this location was changed from tributary mouth to slough in 2011. Although aerial images are not available via Google Earth for the summers of 2012 and 2013 (accessed August 2014), field observations suggest that the areal extent and density of this bed was slightly lower in 2013 compared to 2012:



Des Plaines River Road Bridge Facing Upstream, 8 August 2012

Although the frequency of occurrence of duckweed/algal mats was less in 2013 than 2012, their areal extent and density were comparable between these two years:



Start of East Bank Electrofishing Zone Facing Downstream, 22 August 2012



Start of East Bank Electrofishing Zone Facing Downstream, 11 September 2013

These conditions, which were pervasive from mid-August through September, caused abnormally low electrofishing and seining catches at Location 418. They also caused low DO (4.2 ppm) on 16 August (Appendix A), as well as in portions of the electrofishing zone (1.1 to 5.1 ppm) on 28 August (EA field datasheet 32013110). These low DO values also likely contributed to the poor catch results during those sampling events (Appendix B). Continued expansion of the American lotus bed along with ubiquitous duckweed and algal mats could preclude sampling at this location in the near future, particularly from August through September.

Location 419A – Bayhill Marina (RM 274.4) – Main Channel Border

This 500 m electrofishing zone is along the right bank and ends immediately upstream of a rock wall near a picnic area. Seining is conducted along the right bank, approximately 300 m downstream from the end of the electrofishing zone. Sampling results from this location were negatively impacted by dense mats of duckweed/algae from mid-August through September:



End of Electrofishing Zone Facing Upstream, 25 September 2013

2.3 FISH PROCESSING

All fish were counted and identified to the lowest practical taxonomic level, usually species. For each location and gear, a maximum of 30 specimens of each species collected was measured for total length (mm) and weighed (g). If over 30 individuals of a species were collected at any location, then 30 representative individuals were measured and weighed. The remaining individuals were counted and batch weighed. Minnows (excluding Common Carp, Goldfish, and Common Carp x Goldfish hybrid) and other small forage species (e.g., darters and Brook Silverside) were identified, counted, and batch weighed. All fish were maintained in water immediately after collection and until processing. After processing, they were returned to the UIW. All fish not processed in the field were preserved in formalin, labeled, and returned to the laboratory where they were processed in the same manner as those in the field. A voucher collection of unusual or taxonomically difficult species was compiled.

All fish encountered were examined for external anomalies, which were classified as follows: DELT anomalies (deformities, erosions, lesions, and tumors; Ohio EPA 1987), parasites, or “other” abnormalities. The following is a review of DELT anomalies and their causes in freshwater fishes (Ohio EPA 1989):

- 1) *Deformities* - These anomalies can affect the head, spine, or fins, and have a variety of causes including toxic chemicals, viruses, bacteria (e.g., *Mycobacterium* sp.), and protozoan parasites (e.g., *Myxosoma cerebralis*) (Ohio EPA 1989).
- 2) *Eroded fin, gill cover, barbel, or other body part* - These are the result of chronic disease caused principally by flexibacteria invading the tissue and causing necrosis (Post 1983). Necrosis of the fins may also be caused by gryodactylids, a small trematode parasite (Ohio EPA 1989). For this study, fin erosion was separated into three categories: slight erosion (<1/3 of fin eroded); moderate erosion (1/3-2/3 of fin eroded), and severe erosion (>2/3 of fin eroded) (Appendix F).
- 3) *Lesions and Ulcers* - These appear as open sores or exposed tissue and can be caused by viral (e.g., *Lymphocystis* sp.) or bacterial (e.g., *Flexibacter columnaris*, *Aeromonas* spp., *Vibrio* sp.) infections (Ohio EPA 1989).

- 4) *Tumors* - These result from the loss of carefully regulated cellular proliferative growth in tissue and are generally referred to as neoplasia. In wild fish populations, tumors can be the result of exposure to toxic chemicals. Baumann et al. (1987) identified polynuclear aromatic hydrocarbons (PAHs) as the cause of hepatic tumors in Brown Bullhead from the Black River (Ohio). Viral infections (e.g., Lymphocystis) can also cause tumors. Parasites (e.g., *Glugea anomala* and *Ceratomyxa shasta*; Post 1983) may cause tumor-like masses, but these are not counted as tumors. Parasite masses can be squeezed and broken between the thumb and forefinger whereas true tumors are firm and not easily broken (Ohio EPA 1989).

Only externally visible anomalies were recorded. Exact counts of anomalies (i.e., the number of tumors, lesions, etc., per fish) were not recorded. An external anomaly is defined as the presence of externally visible skin or subcutaneous disorders, and is expressed as percent of affected fish among all fish processed (Ohio EPA 1989).

2.4 PHYSICOCHEMICAL MEASUREMENTS

Dissolved oxygen (DO) concentrations, percent oxygen saturation, and water temperatures were measured at the surface, at subsequent one-meter depth intervals, and at the bottom at each sampling location, but only at mid-depth where the water was one meter or less in depth. In addition, near surface specific conductance and Secchi disk measurements were also taken. Measurements were taken each day at those locations where electrofishing was conducted. Instruments used to measure temperature were checked against a calibrated thermometer before each trip. Instruments used to measure dissolved oxygen and percent oxygen saturation were calibrated before each measurement. In addition, immediately before each sampling day, they were checked against the Winkler method as specified in *Standard Methods for the Examination of Water and Wastewater* (current edition). The conductivity instrument was also checked against a standard before each electrofishing sampling day.

2.5 DATA HANDLING AND ANALYSIS

Field and laboratory data were entered on forms compatible for computer entry following serialization, diga-coding, and QA/QC checks. Data were managed in a SAS format (Version 9.2) to provide flexibility in reporting study results. Data from electrofishing were reported as number, catch-per-unit-effort (CPE, number per kilometer), and percent abundance for each species. Data were segregated by location, segment, and sampling period. Data obtained by seining were reported as number, CPE (number per haul), and percent abundance for each species by location, segment, and sampling period. Summaries of the catch data for each gear type were prepared for combined dates. Total number of fish, total number of species, CPEs, and percent abundance were included in the summaries. For the total species counts, hybrids were not counted and genus level identifications (e.g., *Lepomis* sp.) were only counted as a “species” when no species of that genus was collected.

Index of Well-Being (IWB) was calculated for each electrofishing sample. The IWB, developed by Gammon (1976), uses the number, weight, and diversity of fishes to assess the health of the community. The IWB is calculated according to the formula:

$$IWB = 0.5 \ln N + 0.5 \ln B + d(\text{no.}) + d(\text{wt.})$$

Where: N = Number of fish collected per kilometer

B = Biomass (in kg) of fish per kilometer

d (no.) = Shannon diversity index based on numbers.

d (wt.) = Shannon diversity index based on weight.

If B was less than 1 kg, then B was always assigned a value of 1 kg to prevent negative IWB or IWBmod values.

The IWB is regularly used in the Midwest and has been shown to work reasonably well even outside the Midwest (Hughes and Gammon 1987). It was developed for use on large Midwestern rivers such as the Wabash and Ohio so its use on the UIW is appropriate. In addition, Ohio incorporates IWB criteria into its State water quality standards.

Since 1993, this study has used the version of the IWB that was modified (IWBmod) by Ohio EPA to make it more sensitive to a wider array of environmental disturbances, particularly those that result in shifts in community composition without large reductions in species richness, numbers, and/or biomass (Ohio EPA 1987). This modification calls for the exclusion of 13 highly tolerant species, all hybrids, and all exotic species from the number and weight calculations. However, these taxa are included in the two Shannon index calculations. This modification eliminates the “undesired” effect caused by a high abundance of tolerant species (which clearly is the case in the UIW), but retains their “desired” influence on the Shannon indices. Ohio EPA’s 13 highly tolerant species are Central Mudminnow, Common Carp, Goldfish, Golden Shiner, Bluntnose Minnow, Fathead Minnow, Blacknose Dace, Creek Chub, White Sucker, Yellow Bullhead, Brown Bullhead, Banded Killifish (the subspecies *Fundulus diaphanous diaphanous*, “eastern” Banded Killifish), and Green Sunfish. Banded Killifish collected during this study represents the subspecies *Fundulus diaphanous menona* (“western” Banded Killifish) (Smith 1979); therefore, it is **not** treated as a highly tolerant species (Ohio EPA 1987). In addition to the aforementioned 13 highly tolerant species, the following exotics and hybrids collected during this study were excluded during calculation of the IWBmod: Threadfin Shad, Common Carp x Goldfish hybrid, Oriental Weatherfish, Western Mosquitofish, Redear Sunfish, *Lepomis* hybrid, and Round Goby. Our classification of exotic species for this study is discussed in greater detail in Section 3.2.3.

Fish condition was evaluated using the relative weight (Wr) index (Wege and Anderson 1978). This index represents a refinement of the relative condition factor concept and allows for interpopulational comparisons by making the standard weight-length regression species-specific rather than population-specific. Relative weight is calculated as:

$$Wr = W/W_s \times 100$$

where, W is the measured weight and Ws is the length-specific standard weight predicted by a weight-length regression constructed to represent the species as a whole. Length-specific standard weight functions are in the form:

$$\log_{10} W_s = a + (b \times \log_{10} \text{total length})$$

where, a (intercept) and b (slope) ideally account for genetically determined shape characteristics of a species and yield W_r values of 100 at particular times of the year for fish that have been well fed (Anderson and Gutreuter 1983).

Intercept, slope, and minimum length values for the W_s equation have been published for 35 species and one hybrid known from the UIW (Bister et al. 2000; Anderson and Neumann 1996; Murphy et al. 1991) (Table 1). Minimum lengths are established because the accuracy in weighing fish decreases markedly for smaller individuals and minimum lengths represent the length at which the variance to mean ratio for \log_{10} sharply increases (Murphy et al. 1991).

Analysis of variance (ANOVA) and Duncan's Multiple Range Test were used to test for spatial and inter-year differences in CPE, IWBmod, species richness, and W_r values. Before each data set was statistically evaluated using these methods, it was analyzed to determine whether or not the data were normally distributed. If data were not normally distributed, they were transformed using $\text{Log}(Y+1)$.

2.6 SAMPLING ISSUES

As discussed above, dense mats of duckweed/algae and dense beds of submergent and/or emergent macrophytes likely had a negative impact on the August through September electrofishing and seining results at most locations in the Upstream I-55 segment and at all locations within the Downstream I-55 segment. These conditions reduced the field crews' ability to see and capture fish that were stunned during electrofishing, and clogged the seine with live and decaying duckweed. They also periodically caused low DOs at backwater (slough) Location 418 during the August surveys (Appendix A and EA field datasheet 32013110), which may have also had a negative impact on the catch results at this location (Appendix B). Therefore, catch rate, IWB, IWBmod, and/or species richness values were most likely lower than they would have been if these conditions had not been present within the Upstream and Downstream I-55 segments during August and September.

During 2-3 December 2009, the Asian Carp Rapid Response team applied rotenone to a 5.7-mile section of the CSSC between the USACE's Electric Dispersal Barrier complex and the Lockport Lock and Dam (<http://www.asiancarp.us/news/archive.htm>). This section contains all of the lower Lockport Pool sampling locations described in Section 2.2.1. As discussed herein, the lower Lockport Pool results from 2010 and 2011 were likely affected by this rotenone application.

In 2013, the Asian Carp Regional Coordinating Committee's (ACRCC) Monitoring and Response Workgroup (MRWG) conducted four projects within Midwest Generation's study area (ACRCC 2014):

- 1) **Fixed and Random Site Monitoring Downstream of the Dispersal Barrier** – Electrofishing was conducted bi-weekly from March through November and trammel/gill netting was conducted bi-weekly from March through December. These gear types were used at four fixed sites and at four random sites in each of the following pools: lower Lockport, Brandon Road, and Dresden Island. In addition, hoop and minnow fyke netting were conducted at four fixed sites in each of the aforementioned pools once per month from

May through November. In total, 32 hours of electrofishing, 15.91 to 16.82 miles of trammel/gill netting, 28 net-nights of minnow fykenetting, and 56 net-nights of hoopnetting were expended within each pool. The gear efforts expended in 2013 were approximately two to four times higher compared to previous years. Ten of the 12 MRWG fixed sites are located within or near the following Midwest Generation sampling locations: 301, 302, 302A, 302B, 303, 307, 309, 402, 403, 405, and 408.

- 2) **Barrier Defense Asian Carp Removal Project** – Commercial fishing took place once or twice per month from December 2012 through December 2013 in Dresden Island Pool. For the period of March through December 2013, 54.5 miles of large mesh trammel and gill nets were deployed. This effort was approximately three to seven times higher than during each of the previous three years. Midwest Generation sampling locations 405, 408, 412A, and 414 are within or near the removal area.
- 3) **Asian Carp Gear Efficiency and Detection Probability Study** – Gear evaluations were conducted in vicinity of “I-55/Treats Island” during the summer and fall of 2013. The following gears and efforts were expended during the two sampling events: hoop net (24 net-nights), trammel net with pounding (eight sets), large mesh sinking gill net (eight, four-hour sets), small mesh floating gill net (eight, four-hour sets), mini-fyke net (16 net-nights), beach seine (six to eight hauls), and DC electrofishing (12, 15-minute runs). Midwest Generation sampling locations 405, 408, 412A, and 414 are likely within or near this project area.
- 4) **Distribution and Movements of Small Asian Carp in the Illinois Waterway** – This study was conducted from June through October and included Dresden Island Pool. Sampling was conducted by electrofishing, mini-fyke nets, large frame, small mesh fyke nets, and push-trawling. The effort expended within Dresden Island Pool was not provided in ACRCC (2014). Midwest Generation sampling locations 402, 405, 408, 414, and 418 are likely within or near this project area.

Collectively, this unprecedented amount of additional sampling by the MRRWG likely had a negative influence on the results from those Midwest Generation sampling locations listed above, particularly at Locations 405 and 408, which are adjacent to the areas sampled by all four MRWG projects.

3. RESULTS

3.1 PHYSICOCHEMICAL MEASUREMENTS

Table 2 summarizes surface or mid-depth temperature and dissolved oxygen (DO) values, surface specific conductance values (conductivity adjusted to 25°C), and Secchi disk (transparency) depths. Values for Location 403 are means of measurements from Joliet Stations' #9 and #29 discharge canals, and values for Location 403A are means of measurements from both banks. Appendix A contains all physicochemical data by location, depth, and sampling period, as well as the individual measurements for Location 403 (each discharge canal) and Location 403A (each bank).

3.1.1 Water Temperature

Surface or mid-depth water temperatures ranged from 18.8°C to 36.2°C at the 21 electrofishing locations (Table 2 and Appendix A). The 36.2°C temperature was measured on 16 July within Joliet Station #29's discharge canal (Location 403), upstream of the cooling towers' outfall. This location produced the warmest temperatures during six of the eight surveys (Figures 4 and 5). Highest temperatures for the early July and early September surveys were recorded at Location 403A, immediately downstream of the Joliet Stations' discharge canals. The minimum temperature of 18.8°C was measured on 4 June at Location 301, the furthest upstream location (Table 2 and Appendix A). Location 301 also produced the lowest temperature during the May, mid-July, and September surveys (Figures 4 and 5). Lowest temperatures during the other three surveys were measured at: 1) Location 418, the mouth of Grant Creek, during the early July survey and 2) Location 414, Moose Island slough, during both August surveys (Figures 4 and 5). The three locations that produced the coolest temperatures are either upstream or outside the thermal influence of the generating stations.

Among the 21 electrofishing locations, mean study temperatures ranged from 23.1°C (Location 301) to 30.5°C (Joliet Stations' discharge canals, Location 403) (Table 2). Mean temperatures ranged from 24.6°C to 27.6°C at all other locations, except Location 403A (29.9°C). Thus, mean temperatures within the Joliet Stations' discharge canals (30.5°C) and at the location directly downstream of these canals (Location 403A, 29.9°C) were, on average, 2.3 to 7.4°C warmer than at the other 19 locations. Among segments, mean study temperatures were highest within the Upstream I-55 segment and lower but similar among the other three segments:

<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
25.1	25.3	27.3	25.6

Among the eight surveys, mean water temperatures were lowest in June (21.7°C), intermediate during the May, early July, mid-August, and late September surveys (23.3 to 25.6°C), and highest during the mid-July, late August, and early September surveys (29.4 to 30.0°C) (Table 2). The higher mean water temperatures during these three surveys coincided with periods of high air temperatures, particularly for the early September survey:

Date	Maximum Air Temperature (°F) ¹	Date	Maximum Air Temperature (°F) ¹	Date	Maximum Air Temperature (°F) ¹
15 July	91	26 August	90	9 September	93
16 July	91	27 August	92 ²	10 September	95 ²
17 July	93	28 August	87	11 September	92

¹ Joliet, IL (AccuWeather 2013). ² Record high temperature for that date (1976-2013).

3.1.2 Dissolved Oxygen

Surface or mid-depth dissolved oxygen (DO) concentrations ranged from 2.9 to 18.3 ppm (Table 2 and Appendix A). The minimum value of 2.9 ppm occurred during the June and early July surveys at lower Lockport Pool Locations 302B and 302. One of these two locations or two sampling locations in Brandon Pool (Locations 303 and 305 during late September) produced the lowest DO concentrations (2.9 to 4.7 ppm) during six of the eight surveys (Figures 6 and 7). During the May and mid-August surveys, lowest DO values (4.2 ppm each survey) were measured at backwater Locations 414 (Moose Island slough) and 418 (mouth of Grant Creek). The atypically low DO values at these backwater locations were the result of respiration-decomposition processes from algae and macrophytes (particularly decaying duckweed) (see Section 2.2.4). The maximum value of 18.3 ppm was measured during the May survey at Location 304 in the mouth of the upper Des Plaines River (Table 2 and Appendix A). This location produced the highest DO values (12.8 to 18.3 ppm) during five of the eight surveys. For the other three surveys, highest values were measured at backwater locations: Location 405 in Treats Island slough (10.1 ppm in early July), Location 408 in the Jackson Creek Cut-Off (14.9 ppm in mid-July), and Location 418 in the mouth of Grant Creek (12.9 ppm in June) (Figures 6 and 7). These elevated values were due to high rates of photosynthesis from algae and macrophytes.

Spatial comparisons of DO values among the 21 sampling locations revealed that the highest mean concentration (13.8 ppm) occurred at Location 304 within the mouth of the upper Des Plaines River and lowest concentrations (4.3 to 4.6 ppm) occurred at main channel or main channel border Locations 301, 302, and 302B in lower Lockport Pool (Table 2). Among segments, mean DO concentrations during the study period exhibited a step-wise increase from lower Lockport Pool to the Upstream I-55 segment and then a decrease in the Downstream I-55 segment:

<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
4.7	7.6	8.5	7.5

The decline in the Downstream I-55 segment was due to the atypically low DO values that occurred periodically at Locations 412A, 414, and 418 (Figures 6 and 7).

Temporally, mean DO concentrations were lowest during the early July survey (6.6 ppm), and higher but similar among the other seven surveys (7.0 to 7.8 ppm) (Table 2).

The Secondary Contact Standard of 4 ppm (35 Ill. Adm. Code 302.405) applies to the lower Lockport Pool, Brandon Pool, and Upstream I-55 segments. DO readings below this Standard were recorded for nine of 32 measurements (28 percent) in lower Lockport Pool and for five of 48 measurements (10 percent) in Brandon Pool (Figures 6 and 7; Appendix A). Eleven of the 14 DO values less than 4 ppm were measured during the June, early July, and late September surveys, which coincided with combined sewer overflows that occurred in the upper Des Plaines River and/or the CSSC just before these three surveys (<http://www.mwrd.org/irj/portal/anonymous/overview>). All DO concentrations within the Upstream I-55 segment were above the Secondary Contact Standard (Figures 6 and 7). Similarly, all mean hourly DO measurements collected at the I-55 Bridge during the period of May through September of 2013 were also above the Secondary Contact Standard (EA 2014b).

For the Downstream I-55 segment, the General Use Standard of 5 ppm applies from May through July and the General Use Standard of 3.5 ppm applies in August and September (35 Ill. Adm. Code 302.206(b)). Two of the 32 measurements from this segment were below the General Use Standards (Figure 6). Both measurements occurred during the May survey; 4.2 ppm at backwater Location 414 and 4.9 ppm at backwater Location 418. These atypically low DO values were the result of respiration-decomposition processes from algae and macrophytes (particularly decaying duckweed).

3.1.3 Dissolved Oxygen Percent Saturation

Surface or mid-depth percent saturation values ranged from 26 to 229 percent (Table 2 and Appendix A). The minimum value of 26 percent occurred during the June survey at Location 302B in lower Lockport Pool. In fact, a lower Lockport Pool location produced the lowest percent saturation value (26 to 60 percent) during five of the eight surveys. During the May and mid-August surveys, lowest percent saturation values were measured at backwater Locations 414 (Moose Island slough) and 418 (mouth of Grant Creek), 51 and 56 percent, respectively. The atypically low percent saturation values at these backwater locations were also the result of respiration-decomposition processes from algae and macrophytes (particularly decaying duckweed) (see Section 2.2.4). In late September, the lowest percent saturation value (42 percent) occurred at Location 305 in Brandon Pool. The maximum value of 229 percent was measured during the May survey at Location 304 in the mouth of the upper Des Plaines River. This location produced the highest percent saturation values (148 to 229 percent) during five of the eight surveys. Highest values for the other three surveys were measured at: main channel border Location 306 (139 percent in early July), backwater Location 408 (205 percent in mid-July), and backwater Location 418 (145 percent in June). These supersaturated values were due to high rates of photosynthesis from algae and macrophytes.

Among locations, lowest study mean saturation values (51 to 54 percent) occurred at three of the four sampling locations in lower Lockport Pool; whereas, the highest study mean saturation value (167 percent) occurred at Location 304 within the mouth of the upper Des Plaines River (Table 2). Percent saturation values at the 10 locations upstream of Brandon Lock and Dam were less than 100 for 64 of the 80 measurements (80 percent) and less than 75 percent saturation for 49 of the 80 measurements (61 percent). Conversely, values at the 11 locations downstream of Brandon Road Lock and Dam were less than 100 percent saturation for 45 of the 88 measurements (51 percent) and less than 75 percent saturation during only 12 of the 88 measurements (14 percent) (Appendix A).

Mean percent saturation values exhibited the same longitudinal pattern that was observed for mean DO values, a step-wise increase from lower Lockport Pool to the Upstream I-55 segment and then a slight decline in the Downstream I-55 segment:

<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
56	94	108	92

The slight decline in the Downstream I-55 segment was due to the atypically low percent saturation values that occurred periodically at Locations 412A, 414, and 418 (Appendix A).

Temporally, mean values were lowest in June (82 percent), early July (80 percent), and late September (82 percent), and highest in mid-July (103 percent), late August (101 percent), and early September (101 percent). Annual mean values for the other two surveys were similar, ranging from 88 to 91 percent (Table 2).

3.1.4 Specific Conductance

Specific conductance values ranged from 696 to 1,253 $\mu\text{S}/\text{cm}$ (Table 2 and Appendix A). The maximum value of 1,253 $\mu\text{S}/\text{cm}$ was measured during the May survey at Location 304 in the mouth of the upper Des Plaines River. This location produced the highest study mean value (1,047 $\mu\text{S}/\text{cm}$) and the highest values during six of the eight surveys. The four lower Lockport Pool locations and the furthest upstream location in Brandon Pool (Location 303) yielded the lowest study mean values (796 to 828 $\mu\text{S}/\text{cm}$), and one of these five locations produced the lowest values measured during seven of the eight surveys.

Among segments, mean specific conductance values exhibited a step-wise increase from lower Lockport Pool to the Downstream I-55 segment:

<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
816	865	879	890

Temporally, mean values were highest in May (1,112 $\mu\text{S}/\text{cm}$), lowest in late September (772 $\mu\text{S}/\text{cm}$), and ranged from 799 to 892 $\mu\text{S}/\text{cm}$ during the other six surveys.

3.1.5 Transparency

Transparency (Secchi disk) values ranged from 29 to 202 cm (Table 2 and Appendix A). Among locations, study means were highest (130 cm) at Location 302B in lower Lockport Pool and lowest in Moose Island slough (Location 414; 51 cm) and in the mouth of Grant Creek (Location 418; 50 cm). Among segments, mean values exhibited a different pattern than was observed for mean DO, percent saturation, and specific conductance values, a stepwise decrease in transparency from lower Lockport Pool to the Downstream I-55 segment:

<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
120	117	90	72

Temporally, mean values were lowest in May and June, and exhibited an overall increase throughout the remainder of the study period (Table 2).

3.2 SPECIES COMPOSITION AND ABUNDANCE

3.2.1 Overview

A total of 280 gear efforts (168 electrofishing and 112 seining) was expended during the 2013 UIW study. These efforts produced 14,302 fish representing 60 species and two hybrids (Tables 3 and 4). Numerically, the combined catch was dominated by Bluegill (29.9 percent) and Bluntnose Minnow (21.9 percent) (Table 4). Other species that composed greater than two percent of the catch by number were Gizzard Shad (12.9 percent), Green Sunfish (7.2 percent), Largemouth Bass (6.0 percent), Pumpkinseed (3.4 percent), and Round Goby (2.5 percent). By

weight, the combined catch was dominated by Common Carp (26.0 percent) and Channel Catfish (19.4 percent), and to a lesser extent by Gizzard Shad (11.0 percent), Largemouth Bass (10.4 percent), Smallmouth Buffalo (8.5 percent), Freshwater Drum (6.9 percent), and Bluegill (6.7 percent). Complete summaries of native fish data by survey and for surveys combined are provided in Appendix B, and a raw data listing of all fish collected is provided in Appendix C.

Two state-listed species were collected in 2013, the endangered Pallid Shiner and the threatened Banded Killifish (Table 3; IESPB 2011). One Pallid Shiner was collected by electrofishing at Location 414 (RM 275.9) within Moose Island slough on 11 September (Appendix C). This collection represents the 12th year for which Pallid Shiner has been collected from the lower Des Plaines River and it has been collected during 12 of the past 14 years (Appendix G). The collection of Banded Killifish in 2013 represents only the second consecutive year it has been collected within the study area during 36 years of Midwest Generation or Commonwealth Edison sponsored studies (NES 1978; HESC 1980; ESE 1986; EA 1993-1995, 1996b,c,e, 1998-2005, 2007, 2008a,b, 2010a, 2011, 2012, 2013, and 2014a; Appendix G). Twenty-five specimens were collected and they occurred in each of the four study segments (Table 5 and Appendix C). Three specimens were collected by electrofishing at Location 302A (RM 292.5) in lower Lockport Pool on 1 July and 23 September. Sixteen specimens were collected from Brandon Pool. They were collected by electrofishing and/or seining at Location 304 (RM 290.3; mouth of the upper Des Plaines River) and at main channel border Locations 305 (RM 290.5) and 307 (RM 288.9) during the 1 July, 26 August, 9 September, and 23 September sampling events. Five specimens were collected from the Upstream I-55 segment by seining at main channel border Location 403A (RM 283.8) on 27 August and 24 September. The remaining specimen was collected from the Downstream I-55 segment by seining at Location 414 (RM 275.9) within Moose Island slough on 28 August, and represents the first record of Banded Killifish from this segment during Midwest Generation or Commonwealth Edison sponsored studies (Appendix G).

In addition to the collection of Banded Killifish in the Downstream I-55 segment, there were two other interesting records in 2013:

- Rosyface Shiner was collected for the first time from the Upstream I-55 segment based on the previous 35 years of Midwest Generation or Commonwealth Edison sponsored studies (Appendix G). Nine specimens were collected at Location 402 (RM 285.5) in the Brandon Road Lock and Dam tailwater. Eight specimens were collected by seining on 15 August and one specimen was collected by electrofishing on 27 August (Appendix C). For this monitoring program, the only previous records of this species were from the Downstream I-55 segment in 2003 and from Brandon Pool in 2011 (Appendix G).
- The collection of Spotted Gar represents the first time it has been collected within the study area during 36 years of Midwest Generation or Commonwealth Edison sponsored studies (Appendix G). One specimen was collected by electrofishing at Location 418 (RM 274.8) within the mouth of Grant Creek on 17 July (Appendix C). However, ACRCC (2014) reported this species from the UIW during 2010-2013. Their 2013 records included Marseilles Pool and the Rock Run Rookery located in the Upstream I-55 segment.

Inspection of Table 3 reveals that a fairly diverse fish fauna (60 species) is present within the UIW. Diversity is highest in the minnow, sunfish, and sucker families, which were represented by 17, 11, and eight species, respectively. EA attributes the overall richness of the study area to: 1) a variety of lentic and lotic habitats downstream of Brandon Road Lock and Dam; 2) contributions of Lake Michigan and/or upper Des Plaines River fishes to the upper portion of the study area; and 3) periodic contributions of fish from the species-rich Kankakee River to the lower portion of the study area. Although species richness was fairly high, 24 of the 60 species (40 percent) were represented by 10 or fewer individuals (Table 4). In addition, the community was dominated by moderately to highly tolerant species.

3.2.2 Comparisons Among Segments

Compilation of catch data by segment showed that the fish communities in the two segments upstream of Brandon Road Lock and Dam are poorer than the fish communities in the two segments downstream of it (Table 5). For example, the abundance of fish (based on catch per gear effort) was lower upstream of Brandon Road Lock and Dam (29 to 33 fish per gear effort) than downstream of it (60 to 74 fish per gear effort). In addition, sampling in the lower Lockport Pool and Brandon Pool segments produced 23 and 34 species, respectively, compared to 54 and 40 species in the Upstream I-55 and Downstream I-55 segments, respectively. Finally, there was a noticeable overall decline, from upstream to downstream, in the contribution of Gizzard Shad to the total numeric catches:

	Relative Numeric Abundance (%)			
	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Gizzard Shad	18.5	22.6	12.7	6.4

3.2.3 Exotic Taxa

Classification of exotic taxa for this report is consistent with lists of exotics developed in Illinois (Page et al. 1992), Ohio (Ohio EPA 1987), and Wisconsin (Lyons 1992; Lyons et al. 2001). Exotic taxa are all fishes not native to some portion of northern Illinois. Therefore, Western Mosquitofish and Redear Sunfish are treated as exotics because their natural distributions in Illinois are limited to the southern third of the state (Smith 1979). Their occurrence in northern Illinois is the result of stockings rather than natural expansion of their ranges.

Eight exotic taxa were collected during the 2013 surveys: Threadfin Shad, Goldfish, Common Carp, Common Carp x Goldfish hybrid, Oriental Weatherfish, Western Mosquitofish, Redear Sunfish, and Round Goby (Table 3). Thus, 53 native species were collected in 2013.

Collectively, the eight exotic taxa numerically composed 5.4 percent of the total catch with Threadfin Shad, Common Carp, Western Mosquitofish, and Round Goby accounting for 93.6 percent (726 of 776) of the exotics collected (Table 4). Among segments, the relative numeric abundance of exotic taxa was higher in the two segments upstream of Brandon Road Lock and Dam than in the two segments downstream of it:

	Relative Numeric Abundance (%)			
	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Exotic Taxa	6.0	15.7	2.8	2.7

Although exotics accounted for only 5.4 percent of the total catch by number, they composed a large portion of the biomass (26.5 percent), with Common Carp accounting for 98.2 percent (308.8 of 314.5 kg) of the exotic biomass (Table 4). There was a noticeable overall decline, from upstream to downstream, in the relative biomass abundance of exotic species:

Exotic Taxa	Relative Biomass Abundance (%)			
	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
	48.6	48.0	22.3	12.2

Exotic species often thrive at the expense of native fishes because the ecological checks and balances (e.g., predators, diseases, and parasites) that normally keep populations in equilibrium are lacking or greatly reduced for exotics. Thus, exotics have a considerable propensity for population explosions (e.g., Alewife and Round Goby [in Lake Michigan], Asian carp, Common Carp, and zebra mussels). Although some exotics may be considered “good” (e.g., salmonids) and others “not so good” (e.g., Asian carp, Common Carp, and zebra mussels), several facts are clear:

- Exotics usually expand their populations at the expense of native species (Smith 1979; Becker 1983; Conover et al. 2007);
- Their presence, often in high numbers, confounds data analysis and can result in misleading or erroneous conclusions concerning the “quality” of the fishery (Karr et al. 1986; Ohio EPA 1987; Lyons 1992; Lyons et al. 2001; Emery et al. 2003); and
- It is the policy of some resource agencies and professional societies (e.g., American Fisheries Society) to encourage biodiversity of native species and slow down or even reverse the spread and introduction of exotics (e.g., <http://www.asiancarp.us/index.htm> and <http://www.invasivespeciesinfo.gov/>).

For the reasons listed above, we have tabulated the occurrence and distribution of exotic species in the previous two sections, but excluded them from our spatial and interyear analyses in the remainder of this report. Thus, we follow Ohio EPA (1987), Lyons (1992), Lyons et al. (2001), and Emery et al. (2003), and exclude exotic species from species richness and other calculations (i.e., catch rates and IWBmod). However, to be consistent with the intent of the originator of the IWB (Gammon 1976), all taxa including exotics are used for its calculation. Therefore, the IWB scores are the only instances in this report where the numerical catch parameters reported include exotic species. Note, however, that IWBmod excludes exotics as per Ohio EPA (1987).

It was deemed inappropriate to subjectively classify some exotics as “good” and some as “bad”, therefore, all eight exotic taxa listed above were excluded. Except for Threadfin Shad, Common Carp, Western Mosquitofish, and Round Goby, other exotics were uncommon in the UIW during 2013. Although including the other exotics would not appreciably affect catch parameters (e.g., catch rate, species richness, and biomass), their exclusion maintains a consistent approach as to how exotics have been treated in the analyses of data from the UIW monitoring study. Numerous researchers (Karr et al. 1986; Ohio EPA 1987; Lyons 1992; Lyons et al. 2001; Emery et al. 2003) recommend that exotics be excluded because erroneous conclusions can be reached by including them and inflating catch rates. Data for exotic species collected during 2013 are only provided in Appendix C.

3.2.4 Highly Tolerant Taxa

Populations of exotic species are not the only populations that can increase as water and habitat quality declines (Ohio EPA 1987; Karr et al. 1986; Lyons 1992). Various fishes are highly tolerant to environmental disturbances such as low DO levels (e.g., Goldfish, Common Carp, and Central Mudminnow), siltation (e.g., Bluntnose Minnow, Golden Shiner, and Fathead Minnow), high turbidity (e.g., Creek Chub, Fathead Minnow, Common Carp, and Goldfish), and general habitat disturbances (e.g., Green Sunfish, Common Carp, Goldfish, and Creek Chub). Generally, increased abundance is indicative of better water quality; however, inclusion of highly tolerant species, especially in abundance calculations, can lead to erroneous conclusions because highly tolerant species thrive where water or habitat quality is marginal.

Goldfish, Common Carp, and Common Carp x Goldfish hybrid are exotic taxa that are also highly tolerant. In 2013, six other highly tolerant native species (as defined by Ohio EPA 1987) were collected from the UIW: Golden Shiner, Bluntnose Minnow, Fathead Minnow, White Sucker, Yellow Bullhead, and Green Sunfish. Collectively, these nine highly tolerant taxa composed 31.2 percent of the total numeric catch. Bluntnose Minnow and Green Sunfish were the two most abundant highly tolerant native species collected (Table 4). Highly tolerant taxa are common throughout the UIW and composed 21 to 38 percent of the numeric catch within each segment:

Highly Tolerant Taxa	Relative Numeric Abundance (%)			
	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
	30.5	33.5	38.5	21.1

In order to formulate proper conclusions regarding the quality of the UIW fishery, catch rates of native species are compared with and without highly tolerant species in the following sections. Differences between IWBmod and IWB scores are also compared, following Ohio EPA (1987) guidance. Ohio EPA has found that increasing differences between IWBmod and IWB is a direct indication of the influence of highly tolerant species, which in turn is correlated with a loss of integrity in the fish community.

3.3 LONGITUDINAL ABUNDANCE AND DISTRIBUTION OF NATIVE FISHES

3.3.1 Electrofishing

Annual electrofishing CPEs were highly variable among the 21 sampling locations, ranging from eight fish per km (Location 301) to 353 fish per km (Location 414) (Figure 8 and Appendix B, Table B-1). Since 1994, the sampling locations have been grouped into the four discrete segments described earlier to compare CPEs and other catch parameters on a longitudinal basis (Tables 6 and 7). A one factor ANOVA test of CPE data, treating log transformed CPEs from separate locations and trips as replicates, indicated that mean CPEs were significantly different ($P < 0.05$) among the study segments (Table 7). As shown below, mean native species catch rates exhibited an overall increase from upstream to downstream:

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Mean CPEs-All Native Fish	<u>67.3</u>	<u>70.1</u>	<u>141.2</u>	<u>208.8</u>

Note: CPE values not connected by lines are significantly different ($P < 0.05$) for log transformed data.

Gizzard Shad, a prolific pelagic species, was the third most abundant native species collected from the UIW in 2013 (Table 4). Its CPEs ranked first or second in each segment, but accounted for higher percentages of the electrofishing catches in the two segments upstream of Brandon Road Lock and Dam (19.7 and 35.8 percent) than within the two segments downstream of it (18.5 and 9.0 percent) (Table 6). Its exclusion from electrofishing CPEs did not affect the overall longitudinal trend, nor the statistical relationships among the four segments:

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Mean CPEs-All Native Fish	<u>67.3</u>	<u>70.1</u>	<u>141.2</u>	<u>208.8</u>
Mean CPEs-less Gizzard Shad	<u>54.1</u>	<u>45.0</u>	<u>115.1</u>	<u>190.1</u>
Percent Decrease	20	36	18	9

Note: CPE values not connected by lines are significantly different ($P < 0.05$) for log transformed data. Although the untransformed mean CPE-less Gizzard Shad for Brandon Pool is lower than the mean for lower Lockport Pool, the log transformed mean is significantly higher for Brandon Pool compared to lower Lockport Pool (Table 7).

Bluntnose Minnow and Green Sunfish, two highly tolerant native species, were the second and fourth most abundant species collected from the study area, respectively (Table 4). These two species were among the second to fifth most abundant native species in the electrofishing catches, depending on segment (Table 6). High catches of highly tolerant species like Bluntnose Minnow and Green Sunfish should not be equated with a good fish community or high water quality (Ohio EPA 1987; Emery et al. 2003). Numerous authors recommend that highly tolerant species be excluded from CPE calculations (Ohio EPA 1987; Lyons et al. 2001; Emery et al. 2003). We concur with this approach and use the list of highly tolerant species developed by Ohio EPA (see Sections 2.5 and 3.2.4).

Following the guidance of these authors, CPEs were recalculated excluding highly tolerant fishes as well as Gizzard Shad (Table 7 and Figure 8). The exclusion of highly tolerant species caused mean CPEs (less Gizzard Shad) to decline by 38 to 43 percent in the two segments upstream of Brandon Road Lock and Dam compared to 15 to 31 percent downstream of it:

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Mean CPEs-less Gizzard Shad	<u>54.1</u>	<u>45.0</u>	<u>115.1</u>	<u>190.1</u>
Mean CPEs-less Gizzard Shad & Highly tolerants	<u>33.3</u>	<u>25.5</u>	<u>79.5</u>	<u>160.9</u>
Percent Decrease	38	43	31	15

Note: CPE values not connected by lines are significantly different ($P < 0.05$) for log transformed data. Although both untransformed mean CPE values for Brandon Pool are lower than the means for lower Lockport Pool, both log transformed mean CPE values are significantly higher for Brandon Pool compared to lower Lockport Pool (Table 7).

Exclusion of highly tolerant species and Gizzard Shad from CPE computations had no effect on the overall longitudinal trend. However, their exclusion did change the statistical relationship between the Upstream I-55 and Downstream I-55 segments, and resulted in the log transformed mean CPEs exhibiting a significant, step-wise increase from upstream to downstream among all four segments (Table 7). This trend indicates that the downstream two segments produced significantly higher catch rates of non-tolerant native species (excluding Gizzard Shad) than the two upper segments, which is also apparent among the individual sampling locations. For example, CPEs (less Gizzard Shad and highly tolerant species) at 11 sampling locations downstream of Brandon Road Lock and Dam were higher than at eight of the 10 locations upstream of it (Figure 8).

On a species-specific basis, either or both of the segments downstream of Brandon Lock and Dam produced higher electrofishing catch rates for eight of the 10 most abundant non-tolerant native species (excluding Gizzard Shad) (Table 6):

Species	CPEs (No. per km)			
	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55
Bluegill	14.1	9.5	42.9	124.3
Largemouth Bass	3.3	3.4	11.3	18.0
Pumpkinseed	13.1	4.0	2.9	1.8
Channel Catfish	0.8	1.6	4.1	1.1
Orangespotted Sunfish	0.1	1.5	0.3	3.8
Freshwater Drum	0.2	0.7	1.7	0.8
Smallmouth Bass	--	2.0	0.6	0.3
Northern Sunfish	0.1	0.1	1.5	1.4
Emerald Shiner	0.7	1.0	1.1	0.1
Smallmouth Buffalo	--	--	1.5	1.0

Pumpkinseed and Smallmouth Bass were the only two species that exhibited CPEs in either or both of the two upper segments that were higher than in both of the two downstream segments. The Upstream I-55 segment produced the highest catch rates for five of these 10 species: Channel Catfish, Freshwater Drum, Northern Sunfish, Emerald Shiner, and Smallmouth Buffalo. The Downstream I-55 segment produced the highest catch rates for Bluegill, Largemouth Bass, and Orangespotted Sunfish.

IWB and IWBmod scores were calculated for each sampling effort (Appendix D). Among individual sampling locations, both IWB and IWBmod scores exhibited an overall increase from upstream to downstream (Figure 9). IWB and IWBmod scores at a given location generally differed to a greater extent in the upper two segments. The divergence upstream of Brandon Road Lock and Dam was due to exotic and highly tolerant fishes collectively composing a higher percentage of the catches (by number and/or weight) in these two segments (see Sections 3.2.3 and 3.2.4). Eliminating exotic and highly tolerant fishes (IWBmod) caused mean IWB values to decline by 11 percent within each of the two segments upstream of Brandon Road Lock and Dam, but only by three to five percent within each of the two segments downstream of it:

	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55
Mean IWB Scores	4.09	5.45	7.07	6.56
Mean IWBmod Scores	3.64	4.82	6.72	6.35
Percent Decrease	11	11	5	3

Thus, the IWBmod results further substantiate the disturbed nature of the fish community in the portion of the waterway upstream of Brandon Road Lock and Dam, and validates the use of the IWBmod rather than the IWB.

An ANOVA test of IWBmod data, treating log transformed scores from separate locations and trips as replicates, indicated that mean IWBmod scores were significantly different ($P < 0.05$) among segments (Table 7). The Duncan's Test revealed that mean IWBmod scores exhibited the same trend that was observed for CPEs (with or without highly tolerant species and/or Gizzard Shad) in that mean IWBmod scores upstream of Brandon Road Lock and Dam were significantly lower ($P < 0.05$) than downstream of it. In fact, IWBmod values were higher at 10 of the 11

locations downstream of Brandon Road Lock and Dam than at any of the 10 locations upstream of it (Figure 9). Segment mean IWBmod scores exhibited a significant, step-wise increase from lower Lockport Pool to the Upstream I-55 segment, but then declined slightly in the Downstream I-55 segment due to the sampling issues described in Sections 2.2.4 and 2.6:

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Mean IWBmod Scores	<u>3.64</u>	<u>4.82</u>	<u>6.72</u>	<u>6.35</u>

Note: Values not connected by lines are significantly different ($P < 0.05$) for log transformed data.

Ohio EPA (1987, updated 2014) uses IWBmod scores to divide streams or stream segments into the following classifications for the Eastern Corn Belt Plains ecoregion: Exceptional = ≥ 9.6 ; Very Good = 9.1-9.5; Good = 8.5-9.0; Marginally Good = 8.0-8.4; Fair = 6.4-7.9; Poor = 5.0-6.3; and Very Poor = ≤ 4.9 . According to this classification scheme, the lower Lockport Pool and Brandon Pool segments would be considered very poor (3.6 and 4.8, respectively), whereas the Upstream and Downstream I-55 segments would be considered fair (6.7 and 6.4, respectively).

Cumulative native species richness (total number of native species collected for the eight surveys combined) and mean native species richness (average number of native species collected among the eight surveys) at the 21 sampling locations exhibited an overall increase from upstream to downstream (Figure 10). Cumulative and mean species richness values at each location downstream of Brandon Road Lock and Dam were greater than eight and five of the 10 locations upstream of it, respectively. Locations 304 and 305 were the only two locations upstream of Brandon Road Lock and Dam that had both cumulative and mean species richness values that were comparable to those observed downstream of it. The lower species richness at most locations in the upper two segments is another indication of the poorer fish community that is present in this portion of the waterway.

The difference between cumulative and mean native species richness values at a given location was greater downstream of Brandon Road Lock and Dam than upstream of it (Figure 10). The reason for this divergence is that a more diverse fish fauna is present downstream of Brandon Road Lock and Dam than upstream of it. For example, 44 native species were collected downstream of Brandon Road Lock and Dam compared to 28 native species upstream of it (Table 6). Thus, cumulative richness is constrained to a greater extent in the two segments upstream of Brandon Road Lock and Dam.

Native species richness within the four segments exhibited the same pattern as when locations were considered individually, that is mean values were lower within the upstream two segments than within the downstream two segments (Tables 6 and 7). An ANOVA test of native species richness data, treating log transformed values from separate locations and trips as replicates, demonstrates that the observed differences for species richness were significant ($P < 0.05$) among the segments (Table 7):

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Mean Species Richness	<u>4</u>	<u>7</u>	<u>9</u>	<u>8</u>

Note: Values not connected by lines are significantly different ($P < 0.05$) for log transformed data.

The Duncan's test of these data revealed that species richness followed the same pattern as that observed for CPEs (with or without highly tolerant species and/or Gizzard Shad) and IWBmod scores, in that mean native species richness values upstream of Brandon Road Lock and Dam

were significantly lower than those downstream of it. Thus, as depicted graphically in Figure 10, there indeed is a significant, step-wise increase in species richness as one proceeds downriver.

Species richness differences among the four segments were primarily the result of differences in the number of cyprinid and catostomid species collected:

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Cyprinid (minnow) species	4	4	10	7
Catostomid (sucker) species	<u>0</u>	<u>1</u>	<u>8</u>	<u>5</u>
Total	4	5	18	12

Of the eight catostomid species collected in 2013, only White Sucker (9 specimens) was collected upstream of Brandon Road Lock and Dam, and it was collected only from Brandon Pool (Table 6). In contrast, all eight catostomid species were collected downstream of Brandon Road Lock and Dam. It is worth noting that redhorse, which are often considered rather thermally sensitive, occurred exclusively in the warmer downstream portion of the study area. For the cyprinids, seven species were collected downstream of Brandon Road Lock and Dam, but not upstream of it. Other species that were collected in either one or both of the downstream segments, but which were absent in the two upstream segments, were Spotted Gar, Grass Pickerel, Flathead Catfish, Brook Silverside, Black Crappie, and Yellow Perch (Table 6).

3.3.2 Seining

Annual CPEs were highly variable among the 14 seining locations (Figure 11 and Appendix B, Table B-2). Catch rates were highest at backwater Location 414 (Moose Island slough; 92.4 fish per haul), main channel border Location 404A (62.0 fish per haul), and backwater Location 408 (Jackson Creek Cut-Off; 56.0 fish per haul). Lowest catch rates occurred at main channel border Location 302A in lower Lockport Pool (0.4 fish per haul) and at main channel border Location 305 in Brandon Pool (7.1 fish per haul). Among the nine locations downstream of Brandon Road Lock and Dam, catch rates were noticeably lower at tailwater Location 402, backwater Locations 405 (Treats Island slough) and 418 (mouth of Grant Creek), and main channel border Locations 412A and 419A. These lower catch rates were due to poor sampling efficiency caused by dense submergent macrophytes and/or dense mats of duckweed and algae (including decaying duckweed) clogging the seine (see Sections 2.2.3 and 2.2.4). Excluding Locations 402, 412A, and 419A, the other six locations downstream of Brandon Road Lock and Dam produced catch rates that were higher than at each of the five locations upstream of it. Further discussions of spatial trends will primarily focus on differences among the four segments as opposed to individual locations. Statistical testing was not applied to the seine data because of its qualitative nature.

Among segments, native species catch rates exhibited an appreciable, step-wise increase from lower Lockport Pool to the Upstream I-55 segment, but then declined slightly in the Downstream I-55 segment due to the sampling issues discussed above:

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
CPEs-All Native Fish	0.4	17.7	41.3	39.0

The highly tolerant Bluntnose Minnow was the most abundant species collected seining in the lower three segments, but it was absent in the seine collections from lower Lockport Pool (Table

8). The extent to which Bluntnose Minnow and other highly tolerant species skewed the catches in these three segments is evident when CPEs were recalculated and re-plotted excluding them (Table 8 and Figure 11). Eliminating highly tolerant species caused CPEs to decline by 41 to 69 percent in the lower three segments:

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
CPEs-All Native Fish	0.4	17.7	41.3	39.0
CPEs-less Highly Tolerants	0.4	6.1	13.0	23.2
Percent Decrease	0	66	69	41

The exclusion of highly tolerant species decreased catch rates within each of the lower three segments and at each location within them (Table 8 and Figure 11). Their exclusion resulted in the appreciable, step-wise increase extending to the Downstream I-55 segment. In addition, their exclusion also altered the longitudinal trend from Location 306 downstream to Location 405 due to the catch rates at Locations 306, 307, 403A, 404A, and 405 decreasing by 79 to 89 percent, which were the largest decreases observed among the 14 locations (Figure 11 and Appendix B, Table B-2). However, CPEs without highly tolerant species were still higher at each location downstream of Brandon Road Lock and Dam than at four of the five locations upstream of it. It is apparent that highly tolerant species (primarily Bluntnose Minnow) were prevalent within the Brandon Pool, Upstream I-55, and Downstream I-55 segments in 2013.

On a species-specific basis, either or both of the segments downstream of Brandon Lock and Dam produced higher seining catch rates for seven of the 10 most abundant non-tolerant native species (Table 8):

Species	CPEs (No. per haul)			
	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Bluegill	0.1	0.8	4.4	13.5
Blackstripe Topminnow	--	2.2	1.6	0.6
Largemouth Bass	--	0.7	0.9	1.8
Spotfin Shiner	--	0.1	1.9	0.2
Pumpkinseed	0.1	1.1	0.3	0.5
Orangespotted Sunfish	--	<0.1	0.1	1.0
Brook Silverside	--	--	--	0.7
Banded Killifish	--	0.5	0.1	<0.1
Striped Shiner	--	--	0.3	0.2
Northern Sunfish	--	--	0.1	0.3

Bluegill and Pumpkinseed were the only two species collected in all four segments and their catch rates were lowest in lower Lockport Pool. Only three of the 10 species exhibited CPEs in Brandon Pool that were higher than in both of the two downstream segments: Blackstripe Topminnow, Pumpkinseed, and Banded Killifish. The Upstream I-55 segment produced the highest catch rates for Spotfin Shiner and Striped Shiner; whereas, the Downstream I-55 segment produced the highest catch rates for Bluegill, Largemouth Bass, Orangespotted Sunfish, Brook Silverside, and Northern Sunfish.

YOY *Lepomis* sp. was the second most abundant taxon in both the Upstream and Downstream I-55 segments (Table 8). In fact, this taxon would have ranked second among the list of non-tolerant native species presented above, but was omitted because it may have included specimens

for the highly tolerant Green Sunfish. Nonetheless, *Lepomis* species appeared to have produced a strong 2013 year class downstream of Brandon Road Lock and Dam.

Spatial trends for cumulative native species richness (total number of native species collected from the eight surveys combined) and mean native species richness (average number of native species collected among the eight surveys) were similar whether compared among locations or segments (Figure 12 and Table 8). The lone sampling location in lower Lockport Pool produced the lowest cumulative and mean species richness values. Among the remaining 13 locations, cumulative species richness was similar (eight to 11 species) at eight locations and mean species richness was similar (two to four species) at 11 locations. As was observed for seining catch rates, mean species richness and particularly cumulative species richness was noticeably lower at backwater Location 418 (mouth of Grant Creek) and main channel border Locations 412A and 419A in the Downstream I-55 segment. These low values were also due to poor sampling efficiency caused by dense submergent macrophytes and/or dense mats of duckweed and algae (including decaying duckweed) clogging the seine (see Section 2.2.4). These conditions likely also depressed species richness values at the five sampling locations in the Upstream I-55 segment (see Section 2.2.3). Among segments, cumulative and mean species richness values were lowest in lower Lockport Pool and higher, but similar among the other three segments (Table 8):

	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
Cum. No. Species	3	17	25	21
Mean No. Species	<1	3	3	3

Although species richness was similar among the lower three segments, the Upstream and Downstream I-55 segments did produce 14 non-tolerant native species that were not collected in either the lower Lockport Pool or Brandon Pool segments (Table 8). Conversely, the lower Lockport Pool and Brandon Pool segments produced only two non-tolerant native species that were not collected in the Upstream and Downstream I-55 segments.

In summary, the seine data corroborate the electrofishing data in that: 1) native species catch rates, with or without highly tolerant species, were higher downstream of Brandon Road Lock and Dam than upstream of it; 2) Bluegill, Largemouth Bass, Pumpkinseed, Orangespotted Sunfish, and Northern Sunfish were among the 10 most abundant non-tolerant native species collected; 3) highest catch rates for four of the 10 most abundant non-tolerant native species occurred in the same segments: Bluegill, Largemouth Bass, and Northern Sunfish in both the Upstream I-55 and Downstream I-55 segments, and Orangespotted Sunfish in the Downstream I-55 segment; 4) cumulative and mean native species richness values were lowest in lower Lockport Pool and highest in the Upstream I-55 segment; and 5) the two segments downstream of Brandon Road Lock and Dam produced several non-tolerant native species that were not collected in the two segments upstream of it.

3.4 FISH CONDITION

3.4.1 Overview

Inherent in the development of the standard weight (W_s) equations used to calculate relative weight (W_r) is the objective of modeling the growth form of a species for fish in better than average condition. A mean W_r value close to 100 for a broad range of size groups may reflect ecological and physiological optimality for populations. Conversely, when mean W_r values are considerably less than 100, problems may exist in food availability and/or feeding relationships (Anderson and Neumann 1996).

A total of 4,192 fish, representing 23 native species (Table 9), was collected that met the minimum length criteria of published standard weight (W_s) equations (Table 1). Thirteen of these 23 species were represented by 10 or fewer individuals in at least three of the four segments, precluding further analyses due to low sample sizes. Exotic species are not discussed in the following section; however, W_r values were calculated for all species that have published W_s equations (Table 1) and those results are provided in Appendix E. Longitudinal differences in mean W_r values are discussed below for 10 native species: Gizzard shad, Smallmouth Buffalo, Yellow Bullhead, Channel Catfish, Green Sunfish, Pumpkinseed, Bluegill, Smallmouth Bass, Largemouth Bass, and Freshwater Drum.

The composite (segments combined) mean W_r values for these 10 species ranged from 88 (Smallmouth Buffalo) to 119 (Green Sunfish) (Table 9). Values of this magnitude indicate that, with the possible exception of Smallmouth Buffalo and Gizzard Shad (composite means of 88 and 90, respectively), populations of these species were in average or better than average condition, and that there did not appear to be significant health, food availability, and/or feeding relationship problems.

3.4.2 Longitudinal Comparisons

Statistical testing of W_r values showed that the condition of Smallmouth Buffalo, Yellow Bullhead, Channel Catfish, Pumpkinseed, and Freshwater Drum was not significantly different among those segments compared (Table 10). Conversely, significant longitudinal differences were observed for Gizzard Shad, Green Sunfish, Bluegill, Smallmouth Bass, and Largemouth Bass.

Mean W_r values for Gizzard Shad ranged from 85 in the Downstream I-55 segment to 96 in Brandon Pool (Table 10). Mean W_r values from the Upstream and Downstream I-55 segments were significantly lower than in Brandon Pool, but the mean value from the Upstream I-55 segment (91) was statistically similar to the mean value (92) from lower Lockport Pool. The mean W_r from the Downstream I-55 segment was significantly lower than the other three segments.

Samples sizes for Smallmouth Buffalo were sufficient to make comparisons only between the Upstream I-55 and Downstream I-55 segments (Table 9). Mean values from these two segments were 87 and 91, respectively, and were statistically similar (Table 10).

Sample sizes for Yellow Bullhead were sufficient to make comparisons only between the Brandon Pool and Upstream I-55 segments (Table 9). The mean Wr values from both segments exceeded 100 and were statistically similar (Table 10).

Samples sizes for Channel Catfish were sufficient to make comparisons among all four segments (Table 9). There were no statistical differences among segments and mean Wr values within each segment exceeded the optimal value of 100 (Table 10).

Mean Wr values for Green Sunfish ranged from 116 in the Upstream I-55 segment to 123 in Brandon Pool (Table 10). The mean Wr from Upstream I-55 segment was significantly lower than in the other three segments; however, mean Wr values were well above 100 in all four segments.

Mean Wr values for Pumpkinseed ranged from 115 in lower Lockport Pool to 118 in the Downstream I-55 segment (Table 10). The mean Wr values were statistically similar among segments.

Mean Wr values for Bluegill ranged from 104 in the Downstream I-55 segment to 117 in lower Lockport Pool (Table 10). The lower Lockport Pool mean was significantly higher than means from the three downstream segments, whereas the mean for the Downstream I-55 segment was significantly lower than the means for the three upstream segments. However, all segment means were greater than optimal value of 100.

Sample sizes for Smallmouth Bass were sufficient to make comparisons only between the Brandon Pool and Upstream I-55 segments (Table 9). The Wr mean for Brandon Pool (100) was significantly higher than the mean (88) for the Upstream I-55 segment (Table 10).

Mean Wr values for Largemouth Bass ranged from 99 in the Upstream and Downstream I-55 segments to 111 in Brandon Pool (Table 10). The Brandon Pool mean was significantly higher than the means from the other three segments, but all approached or exceeded the optimal value of 100.

In summary, significant longitudinal differences were observed for Gizzard Shad, Yellow Bullhead, Green Sunfish, Bluegill, Smallmouth Bass, and Largemouth Bass; however, these differences were typically due to the extent to which one or more of the mean values exceeded 100 and not to suboptimal fish condition. Only the mean Wr values for Gizzard Shad (85 to 96) and Smallmouth Buffalo (87 to 91) were consistently lower than 100.

Although significant longitudinal differences of Wr values for certain species suggest that there was a greater abundance of food or less competition for it within one study segment compared to another, mean Wr values for eight of the 10 species were greater than or equal to 91 within those segments compared. Mean Wr values of this magnitude suggest that the populations of these eight species were in average or better than average condition in the segments compared, and that there did not appear to be any significant health, food availability, and/or feeding relationship problems within those segments. Possible exceptions occurred for Gizzard Shad,

Smallmouth Buffalo, and Smallmouth Bass, which had mean W_r values of 85, 87, and 88, respectively, in either the Upstream I-55 or Downstream I-55 segments (Table 10).

3.5 INCIDENCE OF DELT ANOMALIES

DELT anomalies (deformities, erosion, lesions, and tumors; Ohio EPA 1987, 1989) are the group of anomalies most relevant for this study because a clear relationship has been established between the incidence (percentage) of DELT anomalies and water quality (Ohio EPA 1989). The extent to which parasites and “other” anomalies (e.g., emaciation, regenerated scales) reflect water quality is unclear. Therefore, only the DELT anomaly data collected are summarized herein. Data regarding parasites and “other” anomalies are provided in Appendix F.

In contrast to the fish community evaluation that eliminated exotic species as a whole, exotic species are included in the DELT comparisons because of the extent to which they (particularly Common Carp) are affected by DELT anomalies. Seine data were not used for comparative purposes because this gear collects primarily small fish that often lack anomalies.

3.5.1 Overview

A total of 538 fish (5.1 percent of the electrofishing catch), representing 24 taxa (42 percent of the taxa collected electrofishing) exhibited DELT anomalies within the study area during 2013 (Table 11). Only 22 of the 57 taxa listed in Table 11 had sufficient samples sizes (≥ 25 total fish examined) to allow for meaningful interpretation of the DELT data. Among these 22 taxa, incidences of DELT anomalies were highest on Channel Catfish (82.4 percent), Freshwater Drum (58.2 percent), Smallmouth Buffalo (55.9 percent), Common Carp (53.7 percent), Largemouth Bass (13.5 percent), Yellow Bullhead (10.3 percent), Oriental Weatherfish (6.9 percent), Smallmouth Bass (5.7 percent), Spotfin Shiner (3.9 percent), Longnose Gar (3.6 percent), and Green Sunfish (3.5 percent). Seven of these 11 species (all except Largemouth Bass, Smallmouth Bass, Spotfin Shiner, and Green Sunfish) are predominately bottom feeders. The disproportionately higher rates of affliction for bottom feeders suggest that the contaminated substrates within the study area are likely responsible for many of the DELTs observed on these species (Bertrand and Sallee 1992; Sparks and Ross 1992; EA 1996d; Burton 1995; EA 2008d). Conversely, incidence rates were lower (≤ 1.5 percent) or absent for the other 11 common taxa (Table 11). Erosion accounted for the vast majority (92.0 percent) of the DELT anomalies observed (Table 12). For example, erosion accounted for 50 percent or more of the DELT afflictions for 19 of the 24 taxa that exhibited DELT anomalies. Deformities, lesions, and tumors each composed 7.4, 6.9, and 0.4 percent, respectively, of the DELT anomalies observed (Appendix F). Since a single fish can exhibit multiple DELT anomalies, the individual percentages that each DELT anomaly contributed to the total DELT anomalies can add up to greater than 100 percent.

3.5.2 Longitudinal Comparisons

The incidence rates of DELT anomalies increased from lower Lockport Pool (3.8 percent) downstream to the Upstream I-55 segment (7.6 percent); incidence rates then decreased in the Downstream I-55 segment to 2.4 percent (Table 11). Erosion accounted for 79.5 to 95.2 percent

of the DELT anomalies observed in each segment (Table 12). Species-specific longitudinal comparisons are provided below for the six species (Common Carp, Smallmouth Buffalo, Yellow Bullhead, Channel Catfish, Largemouth Bass, and Freshwater Drum) that exhibited high incidence rates and were represented by 10 or more examined fish in at least two segments. Of the six species, Common Carp, Channel Catfish, and Largemouth Bass had sufficient sample sizes to allow comparisons among all four segments (Table 11). The incidence rates for Common Carp were lowest in the Downstream I-55 segment (39.1 percent) and were higher, but similar (50.0 to 66.7 percent) among the other three segments. The incidence rates for Channel Catfish exceeded 70 percent in all segments and were highest (92.1 percent) in Brandon Pool. The incidence rates for Largemouth Bass were highest in the Upstream I-55 segment (19.9 percent) and ranged from 4.9 percent to 10.1 percent in the other segments (Table 11).

Smallmouth buffalo, Yellow Bullhead, and Freshwater Drum were only collected in adequate numbers to allow comparisons between two or three segments. Incidence rates for Smallmouth Buffalo were noticeably higher in the Upstream I-55 segment (65.1 percent) than in the Downstream I-55 segment (31.3 percent) (Table 11). Yellow Bullhead was collected in sufficient numbers from the Brandon Pool and Upstream I-55 segments to compare incidence rates, which were 15.6 and 5.3 percent, respectively. Freshwater Drum incidence rates were lowest in the Downstream I-55 segment (8.3 percent) and much higher in the Brandon Pool and Upstream I-55 segments (47.1 and 72.3 percent, respectively).

Incidence rates for three commonly collected sunfish species (Green Sunfish, Pumpkinseed, and Bluegill) were low in all four segments with incidence rates that ranged from 0.0 to 5.5 percent. For segments combined, their incidence rates ranged from 0.7 percent (Pumpkinseed) to 3.5 percent (Green Sunfish) (Table 11).

Overall, affliction rates for all taxa combined were highest in the Upstream I-55 segment (7.6 percent), intermediate in the lower Lockport Pool and Brandon Pool segments (3.8 percent and 5.1 percent, respectively), and lowest in the Downstream I-55 segment (2.4 percent). High incidence of DELT anomalies is an indication of stress that may be caused by a variety of environmental factors, including chemically contaminated substrates (Ohio EPA 1989). Ohio EPA (1987) uses percent DELT anomalies as an Index of Biotic Integrity (IBI) metric. For large river sites like the UIW, the IBI scoring criteria is as follows: $<0.5\% = 5$ (good), $0.5\text{--}3.0\% = 3$ (fair), and $>3.0\% = 1$ (poor). Thus, the overall incidence rate the Downstream I-55 segment would be in the fair category and the other three segments would be in the poor category.

3.6 SUMMARY OF THE 2013 FISHERIES DATA

A total of 280 gear efforts (168 electrofishing and 112 seining) was expended at 21 locations during the 2013 UIW study. These efforts produced 14,302 fish representing 60 species and two hybrids. Two state-listed species were collected, the endangered Pallid Shiner and the threatened Banded Killifish, which was collected for the first time within the Downstream I-55 segment. In addition, Rosyface Shiner was collected for the first time from the Upstream I-55 segment and Spotted Gar was collected for the first time during this monitoring program. The combined catch was numerically dominated by Bluegill (29.9 percent), Bluntnose Minnow (21.9 percent), Gizzard Shad (12.9 percent), Green Sunfish (7.2 percent), Largemouth Bass (6.0 percent),

Pumpkinseed (3.4 percent), and Round Goby (2.5 percent). By weight, the combined catch was dominated by Common Carp (26.0 percent) and Channel Catfish (19.4 percent), and to a lesser extent by Gizzard Shad (11.0 percent), Largemouth Bass (10.4 percent), Smallmouth Buffalo (8.5 percent), Freshwater Drum (6.9 percent), and Bluegill (6.7 percent).

Eight exotic taxa were collected during the 2013 surveys: Threadfin Shad, Goldfish, Common Carp, Common Carp x Goldfish hybrid, Oriental Weatherfish, Western Mosquitofish, Redear Sunfish, and Round Goby. Collectively, these eight exotic taxa composed 5.4 percent of the total numeric catch with Threadfin Shad, Common Carp, Western Mosquitofish, and Round Goby accounting for 93.6 percent of the exotics collected. The exotics accounted for 26.5 percent of the total biomass catch with Common Carp accounting for 98.2 percent of the exotic biomass. The relative abundance of exotic taxa, both by number and weight, was higher in the two segments upstream of Brandon Road Lock and Dam than in the two segments downstream of it.

In 2013, nine highly tolerant taxa were collected from the UIW: Goldfish, Common Carp, Common Carp x Goldfish hybrid, Golden Shiner, Bluntnose Minnow, Fathead Minnow, White Sucker, Yellow Bullhead, and Green Sunfish. Collectively, these highly tolerant taxa composed 31.2 percent of the total numeric catch with Bluntnose Minnow and Green Sunfish being the two most abundant highly tolerant taxa collected. Highly tolerant taxa were common throughout the study area, composing 21.1 to 38.5 percent of the numeric catch within each of the four segments.

Longitudinal examination of the combined catch data (all species included) revealed that: 1) species richness was lower upstream of Brandon Road Lock and Dam than downstream of it; 2) the abundance of fish (based on catch per gear effort) was also lower upstream of Brandon Road Lock and Dam than downstream of it; and 3) there was a noticeable overall decline, from upstream to downstream, in the contribution of Gizzard Shad to the combined numeric catches. Community structure also differed between the areas with catostomids being nearly absent and cyprinid richness being lower upstream of Brandon Road Lock and Dam.

Electrofishing data for native species exhibited the same pattern as the combined catch data. For example, mean CPE (with or without highly tolerant species and Gizzard Shad), IWBmod, and species richness values were significantly lower within the two segments upstream of Brandon Road Lock and Dam than within the two segments downstream of it. According to Ohio EPA's narrative classification of IWBmod scores, the means for both segments upstream of the Brandon Road Lock and Dam would be considered very poor, whereas the Upstream I-55 and Downstream I-55 segments would be considered fair.

The seine data corroborated the electrofishing and combined catch data in that: 1) native species catch rates, with or without highly tolerant species, were lower upstream of Brandon Road Lock and Dam than downstream of it and 2) the two segments downstream of Brandon Road Lock and Dam produced several non-tolerant native species that were not collected in the two segments upstream of it.

At least some of the electrofishing and seining catch parameters were likely reduced in all four segments during 2013 due to a variety of factors, either individually or collectively, which are not related to operation of the power plants within the study area. These factors include: 1) an unprecedented amount of additional electrofishing and netting studies conducted by the Asian Carp Regional Coordinating Committee's Monitoring and Response Workgroup throughout the study area, 2) dense mats of duckweed/algae and dense beds of submergent and/or emergent macrophytes that reduced the effectiveness of electrofishing and/or seining at nearly all sampling locations within the Upstream and Downstream I-55 segments during August and September, and periodically caused low DOs at backwater Locations 414 and particularly 418 during the August surveys.

Fish condition was evaluated using relative weights (Wr). Longitudinal differences in mean Wr values were evaluated for Gizzard Shad, Smallmouth Buffalo, Yellow Bullhead, Channel Catfish, Green Sunfish, Pumpkinseed, Bluegill, Smallmouth Bass, Largemouth Bass, and Freshwater Drum. Although the longitudinal differences in fish condition were occasionally significant, mean Wr values were greater than or equal to 98 for seven of the 10 species within the segments compared. Wr values of this magnitude suggest that the populations of these species were in average or better than average condition in the segments compared, and that there did not appear to be any significant health, food availability, and/or feeding relationship problems within the study area, except perhaps for Gizzard Shad, Smallmouth Buffalo, and Smallmouth Bass that had mean Wr values of less than 90 in one of the segments in which they occurred.

The incidence rates of DELT anomalies increased from lower Lockport Pool (3.8 percent) downstream to the Upstream I-55 segment (7.6 percent); incidence rates then decreased in the Downstream I-55 segment to 2.4 percent. Based upon Ohio EPA's percent DELT metric in its IBI, the overall incidence rate in Downstream I-55 segment would be in the fair category and the other three segments would be in the poor category. The most commonly afflicted species were predominately bottom feeders (e.g., Channel Catfish, Freshwater Drum, Smallmouth Buffalo, and Common Carp) and their disproportionately higher incidence rates suggest that contaminated substrates within the study area are likely responsible for many of the DELTs observed on these species.

4. DISCUSSION

4.1 PHYSICOCHEMICAL MEASUREMENTS

4.1.1 Water Temperature

Mean May water temperatures (°C) in 2013 were the highest or second highest within each segment among the 14 years compared (EA 1995, 1996b, 2001-2003, 2007, 2008a,b, 2010a, 2011, 2012, 2013, and 2014a):

<u>Year</u>	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
2013	24.0	24.8	25.2	23.2
2012	20.6	20.1	19.9	18.6
2011	16.8	16.6	20.6	23.2
2010	18.8	19.2	19.9	19.1
2009	17.9	18.8	22.1	20.9
2008	15.8	16.6	17.9	16.3
2007	23.7	25.5	24.6	19.8
2006	19.5	18.2	19.7	18.2
2005	20.2	19.9	23.4	22.3
2002	19.4	19.5	21.9	23.2
2001	21.7	21.2	24.5	22.8
2000	21.6	20.5	25.1	21.2
1995	15.5	14.4	17.4	19.0
1994	16.9	16.6	17.7	17.7

The 2013 lower Lockport Pool mean was 0.3°C higher than the previous high and the Brandon Pool mean was 0.7°C lower than the previous high. The Upstream I-55 mean was only 0.1°C higher than previously reported and the Downstream I-55 mean was equal to means from two other years.

No consistent longitudinal trend has been evident for the May temperatures among the 14 years compared; however, May water temperatures have typically been cooler upstream of Brandon Road Lock and Dam than downstream of it. That trend held true in 2013 when the upper segments were compared to the Upstream I-55 segment, but the lowest mean temperature occurred in the Downstream I-55 segment and it was 0.8 to 1.6°C lower than the means for the lower Lockport Pool and Brandon Pool segments.

The following table compares mean summertime (i.e., 15 June-August) water temperatures (°C) among the past 14 study years for each of the four segments:

<u>Year</u>	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
2013	26.5	26.6	28.5	26.9
2012	30.1	29.5	31.7	29.1
2011	29.3	29.5	31.5	29.8
2010	29.2	29.5	30.6	29.3
2009	26.2	27.4	28.7	26.9
2008	28.6	28.4	30.4	29.4
2007	28.0	27.7	29.2	28.2
2006	27.8	28.5	30.9	28.6
2005	30.1	31.5	32.4	29.8
2002	29.1	29.6	31.9	29.4
2001	28.6	29.5	30.8	30.1
2000	27.7	27.7	30.7	29.2
1995	26.8	26.9	30.7	30.3
1994	26.2	24.9	26.7	25.7

Mean summertime water temperatures in 2013 were some of the lowest observed to date in each segment. The 2013 mean for lower Lockport Pool was the third lowest observed and 3.6°C cooler than observed in 2005 and 2012, which were the highest to date in that segment. The mean water temperature for Brandon Pool in 2013 was the second lowest observed in this segment and 2.9°C cooler than in each of the past three years that were the warmest observed within this segment since 2005. Means for both the Upstream and Downstream I-55 segments were the second or third lowest observed and 3.4 to 3.9°C cooler than the highest means observed in those segments. The 2013 segment means were 2.2 to 3.2°C cooler than in 2012.

The longitudinal trend for mean summertime temperatures in 2013 was the same as that observed during all previous years except 1995 and 2000, in that mean summertime temperatures were similar among the lower Lockport Pool, Brandon Pool, and Downstream I-55 segments, and slightly warmer in the Upstream I-55 segment. In 1995 and 2000, temperatures were moderately warmer in both segments downstream of the Brandon Road Lock and Dam than in the two segments upstream of it.

4.1.2 Dissolved Oxygen

Annual mean (i.e., May-September) DO values from each of four segments are presented below for the past 14 study years:

<u>Year</u>	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
2013	4.7	7.6	8.5	7.5
2012	4.3	8.0	8.5	6.5
2011	4.0	6.3	8.0	7.5
2010	4.5	7.2	8.4	8.3
2009	4.9	7.3	8.1	8.5
2008	5.5	6.9	7.9	8.3
2007	4.2	6.0	7.6	8.5
2006	4.4	6.4	8.2	9.2
2005	4.8	6.8	8.3	8.2
2002	4.3	6.0	8.5	8.9
2001	4.4	6.5	8.4	10.8
2000	4.4	5.8	8.0	9.5
1995	5.3	6.0	7.5	10.8
1994	4.2	6.0	7.9	9.7

Mean DO values from lower Lockport Pool and Brandon Pool in 2013 were within range of their respective values observed during the previous 13 years; whereas, mean values from the Upstream I-55 segment during 2002, 2012, and 2013 were the highest to date. Conversely, the mean DO values within the Downstream I-55 segment during the past three years were the lowest among years compared. The higher mean DO values within the Upstream I-55 segment were likely due to higher rates of photosynthesis from algae and macrophytes; whereas, the lower mean DO values in the Downstream I-55 segment were due to respiration-decomposition processes from algae and macrophytes, particularly decaying duckweed, that were prevalent at backwater locations in this segment (EA 2013 and 2014a; Section 3.1.2). Annual mean values within the Upstream I-55 and Downstream I-55 segments have consistently been greater than or equal to 6.5 ppm during the 14 years compared.

The longitudinal pattern for annual mean DO values was identical in nine of these 14 years in that there was a noticeable stepwise increase in DO from upstream to downstream. In 2005 and from 2010 through 2013, there were also stepwise increases from lower Lockport Pool to the Upstream I-55 segment, but then slight to appreciable declines in the Downstream I-55 segment. The declines within this segment during the past four years were due to the respiration-decomposition processes described above, particularly within backwater Location 418 (the mouth of Grant Creek) (EA 2012, 2013, and 2014a; Section 3.1.2).

Prior to 2011 and in 2013, DO concentrations within the Upstream I-55 segment were consistently above the Secondary Contact Standard of 4 ppm and DO concentrations within the Downstream I-55 segment were consistently above the General Use Standards of 5 ppm (May through July) or 3.5 ppm (August and September) (EA 1995, 1996b, 2001-2003, 2007, 2008a,b, 2010a, 2011, and 2012; Section 3.1.2). In 2011 and 2012, there was one DO measurement each year from the Upstream I-55 segment that was below the Secondary Contact Standard (EA 2013 and 2014a). During each of the past three years, there were two to six measurements per year that were below the General Use Standards in the Downstream I-55 segment; all of which occurred at backwater locations (EA 2013 and 2014a; Section 3.1.2).

Over the past 14 study years, DO concentrations were routinely below the Secondary Contact Standard within the Brandon Pool and/or lower Lockport Pool segments. The following table compares the percentage of surface or mid-depth measurements that were below the Secondary Contact Standard in these two segments:

Percentage of DO Measurements < 4 ppm		
<u>Year</u>	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>
2013	28	10
2012	53	2
2011	50	21
2010	22	6
2009	7	0
2008	6	0
2007	25	8
2006	31	8
2005	16	2
2002	41	21
2001	25	6
2000	25	5
1995	25	29
1994	58	5

The percentage of measurements below the Secondary Contact Standard in 2013 was sixth highest to date for lower Lockport Pool and fourth highest to date for Brandon Pool.

4.2 SPECIES COMPOSITION AND ABUNDANCE

Composition and abundance data (including exotics), for electrofishing and seining combined, are compared among the 1994, 1995, 2000-2002, and 2005-2013 study years; the years when sampling was conducted in all four segments. Data compared in Tables 13 and 14 are from the same seasons (i.e., spring and summer) and the same locations, except that Location 302B was substituted for Location 302C in lower Lockport Pool beginning in 2001 and Location 405 in the

Upstream I-55 segment was not sampled in 2000. Over the past seven years, there have been a variety of factors, either individually or collectively, that may have adversely affected the results in one or more of the segments: 1) dense mats of duckweed/algae in the Upstream I-55 and Downstream I-55 segments that reduced the effectiveness of electrofishing and seining at several locations from 2007 through 2013, and caused atypically low DO values at backwater locations from 2011 through 2013; 2) the December 2009 rotenone event in lower Lockport Pool; and 3) MRWG sampling in all four segments from 2010 through 2013 (EA 2008b, 2010a, 2011, 2012, 2013, and 2014a; Section 2.6).

For segments combined, the 60 species collected in 2013 was within the range of values reported during the previous 13 study years (Table 13). The number of species collected each year since 2000 was higher than observed in 1994 and 1995. The higher species richness values during the past 12 study years have been due primarily to the collection of more cyprinid (minnow), centrarchid (sunfish), and percid (perch) species. For example, 26 to 37 cyprinid, centrarchid, and percid species were collected each year from 2000 through 2013 compared to 25 species in both 1994 and 1995.

Although more species have been collected in recent years, the data show that the fish community has typically been dominated by the same species each year (Table 13). Gizzard Shad, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Bluegill, Orangespotted Sunfish, and Largemouth Bass have ranked among the 10 most abundant species in at least 10 of the past 14 study years. Five other taxa (Spotfin Shiner, Common Carp, Spottail Shiner, Bullhead Minnow, and YOY *Lepomis* sp.) occasionally ranked in the top 10 during the 14 study years. The only major difference, with respect to community dominants, is that the relative abundance of Bluegill during the past 12 study years (12.0 to 30.8 percent) has been markedly higher than in 1994 and 1995 (1.1 and 2.7 percent, respectively), and highest to date in 2013. This increase was likely due to an increase in macrophyte abundance in the study area, particularly during the past three years. Minor differences in relative abundance among the past 14 study years have been observed for six other common to abundant taxa. The relative abundance of Spotfin Shiner has been higher during seven of the past nine years and the relative abundance of YOY *Lepomis* was markedly higher during 2010-2012. Conversely, the relative abundance of Emerald Shiner, Common Carp, Spottail Shiner, and Bullhead Minnow during the past three to five years has been among the lowest for years compared, which may be due to the sampling issues described above. Also, Round Goby was first collected in 2000 and exhibited an overall increase in abundance through 2009. Round goby catches declined in 2010 (224) and 2011 (184), but increased in 2012 (302) and 2013 (353).

Compilation of the 2013 data by segment reveals that fish abundance (i.e., catch per gear effort) and species richness (i.e., total number of species) values were lower upstream of Brandon Road Lock and Dam than downstream of it, and that the collective relative abundance (%) of Emerald Shiner, Gizzard Shad, and highly tolerant taxa was higher upstream of Brandon Road Lock and Dam than downstream of it. These same trends were also apparent in all previous years, except 1995 and 2002 (Tables 14 and 15). These data also suggest that the fish communities within each of the four segments have improved somewhat compared to 1994 and 1995 based on: 1) catch per gear effort values since 2000 are generally higher than in 1994 or 1995; 2) species richness values in each segment during the past 12 study years were consistently higher than in 1994 and/or 1995; and 3) the collective relative abundances (%) of Emerald Shiner, Gizzard

Shad, and highly tolerant taxa within the three downstream segments have typically been lower compared to 1994 and 1995, particularly in 2012 and 2013 when values for each of the four segments were either the lowest or second lowest to date (Table 15). The atypically low species richness values for the Downstream I-55 segment during 2011-2013 were due to the adverse conditions caused primarily by dense mats of duckweed/algae, particularly at backwater Location 418 in the mouth of Grant Creek (EA 2013 and 2014a; Section 2.6).

4.3 LONGITUDINAL COMPARISONS OF COMMUNITY LEVEL PARAMETERS

4.3.1 Electrofishing

Electrofishing catch rates (CPE) of native species, IWBmod scores, and native species richness values were compared among the four segments to determine whether the longitudinal patterns of these parameters in 2013 were different than those observed during 1994, 1995, 2000-2002, and 2005-2012 (EA 1995, 1996b, 2001-2003, 2007, 2008a,b, 2010a, 2011, 2012, 2013, and 2014a). As described in Section 4.2, data compared are from similar locations, the same seasons, and those from 2007 through 2013 may have been negatively influenced by a variety of factors not related to operation of the power plants within the study segments.

The following relationships of CPEs among segments were consistent for each of the 14 years compared: 1) CPEs were significantly lower ($P < 0.05$) upstream of Brandon Road Lock and Dam compared to the Downstream I-55 segment and 2) CPEs from lower Lockport Pool were significantly lower when compared to the Upstream I-55 segment (Tables 16 and 17). However, the relationships between the Brandon Pool and Upstream I-55 segments, as well as between the Upstream I-55 and Downstream I-55 segments, have been less consistent among these 14 years. For example, CPEs from Brandon Pool were significantly lower than the Upstream I-55 segment in 12 of the 14 years and statistically similar ($P > 0.05$) in 1995 and 2000. CPEs from the Upstream I-55 segment were significantly lower than the Downstream I-55 segment in five of the 14 study years and statistically similar in the other nine years. The inconsistent relationships between these two pairs of segments were primarily due to differences in the catch rates of highly tolerant native species and Gizzard Shad. For example, when CPEs are recalculated excluding highly tolerant species and Gizzard Shad, the resulting longitudinal pattern becomes the same each year; significantly lower within the two segments upstream of the Brandon Road Lock and Dam than within the two segments downstream of it (Table 17). Catch rates of non-tolerant native fish (less Gizzard Shad) have been significantly higher within the General Use water downstream of I-55 than within the Secondary Contact water of the Upstream I-55 segment in all study years except 2001 and 2007 (Table 17).

The longitudinal trends of mean IWBmod and native species richness values have also been consistent among the 14 study years; significantly lower upstream of Brandon Road Lock and Dam than downstream of it (Table 17). This is the same pattern that was observed for the catch rates of non-tolerant native fish (less Gizzard Shad). The consistent trend of significantly lower mean IWBmod and species richness values upstream of Brandon Road Lock and Dam has been largely due to the poorer diversity of cyprinid, centrarchid, and particularly catostomid species in the segments upstream of Brandon Road Lock and Dam (Table 16). For example, no catostomids were collected from lower Lockport Pool in 13 of the 14 study years. White sucker is the only catostomid consistently collected from Brandon Pool, although Smallmouth Buffalo

has been collected in Brandon Pool during five of the 14 study years (i.e., 2002 and 2005-2008) and spotted sucker was collected in 2002 and 2009-2011. Conversely, the Upstream I-55 and Downstream I-55 segments have typically produced between seven and nine catostomid species each year (Table 16).

In contrast to the between-segment differences typically observed for CPEs (without highly tolerant species and Gizzard Shad), mean IWBmod and native species richness values have not been significantly different between the Upstream I-55 and Downstream I-55 segments, except for mean native species richness in 2005 and 2006 when the Downstream I-55 segment averaged 11 and 12 species compared to eight and nine species for the Upstream I-55 segment, respectively (Table 17).

The longitudinal relationships of electrofishing catch parameters in 2013 were the same as those observed during the previous 13 years compared, in that the fish communities in the lower Lockport Pool and Brandon Pool segments continue to be significantly poorer than the fish communities in the Upstream and Downstream I-55 segments.

4.3.2 Seining

Seining catch rate (CPE) and species richness values for native species were compared among the four segments to determine how the longitudinal patterns of these parameters in 2013 compared to those observed in 13 previous study years (i.e., 1994, 1995, 2000-2002, and 2005-2012). Again, data compared are from similar locations, the same seasons, and those from 2007 through 2013 may have been negatively influenced by a variety of factors not related to operation of the power plants (EA 2008b, 2010a, 2011, 2012, 2013, and 2014a; Section 2.6). Statistical testing was not applied to the seine data.

No consistent longitudinal trend was apparent for seining CPEs (all native species) among the past 14 study years, except that CPEs have been lowest in one of the two segments upstream of Brandon Road Lock and Dam and highest within one of the two segments downstream of it (Table 18). The lack of a consistent longitudinal trend has been primarily attributed to the variability in the catch rates of the highly tolerant Bluntnose Minnow (all years) and Gizzard Shad (particularly 2002, 2005, and 2007). For example, when CPEs are recalculated without the highly tolerant species and Gizzard Shad, the resulting CPEs exhibited a noticeable, stepwise increase from upstream to downstream in all years except 2000 and 2009-2012. In 2000 and 2011, there was also an overall increase in non-tolerant CPEs (less Gizzard Shad) from upstream (i.e., lower Lockport Pool) to downstream (i.e., the Downstream I-55 segment); however, CPEs in both years were similar between the Brandon Pool and Upstream I-55 segments. In 2009, the downstream increase was minimal from Brandon Pool to the Downstream I-55 segment, whereas in 2010, CPEs increased through the Upstream I-55 segment but decreased in the Downstream I-55 segment. The 2012 CPE in lower Lockport Pool was the highest to date and similar to Brandon Pool, then CPEs exhibited noticeable, stepwise increases within the Upstream and Downstream I-55 segments. Therefore, seining CPEs without the highly tolerant species and Gizzard Shad have been lower upstream of Brandon Road Lock and Dam than downstream of it during 10 of the past 14 years.

Cumulative species richness exhibited the same longitudinal trend among the 14 years compared, in that it has consistently been lower upstream of Brandon Road Lock and Dam than downstream of it (Table 18). Mean species richness exhibited this same pattern in all years except 2010, 2012, and 2013. Mean species richness in 2010 was identical between the Brandon Pool and Upstream I-55 segments, and identical among the Brandon Pool, Upstream I-55, and Downstream I-55 segments in 2012 and 2013. Thus, cumulative and mean species richness have been lower upstream of Brandon Road Lock and Dam than downstream of it during at least 11 of the 14 years compared.

In summary, the seine CPE and species richness data have shown that the fish community upstream of the Brandon Road Lock and Dam has typically been poorer than the fish community downstream of it, which is the same conclusion reached based on the electrofishing data.

4.4 INTERYEAR COMPARISONS OF ELECTROFISHING CATCH PARAMETERS

4.4.1 Upstream of Brandon Road Lock and Dam

For the lower Lockport and Brandon Pool segments, electrofishing data were compared among 1994, 1995, 2000-2002, and 2005-2013 to determine if their fish communities have changed during this period. Data used for comparative purposes are from the period of May through September and are from the same locations, except that Location 302B was substituted for Location 302C in 2001. Seining data were not analyzed because of their qualitative nature and because of the extent to which a single species, the highly tolerant Bluntnose Minnow, has influenced the catch rates within the study area (see Section 4.3.2). Electrofishing results from these segments in 2010 and 2011 may have been negatively influenced by the December 2009 rotenone event and results from 2010 through 2013 may have been impacted by MRWG sampling (EA 2012, 2013, and 2014a; Section 2.6).

4.4.1.1 Lower Lockport Pool

Electrofishing catch rates of native species were significantly different among the past 14 study years (Tables 16 and 19). The CPE in 1994 was significantly lower compared to all other years and the 1995 CPE was significantly lower than all subsequent years except 2000. Conversely, the 2002 CPE was significantly higher than all other study years except 2001 and six of the past seven years. The interyear differences in catch rates were primarily due the variability in the abundance of Gizzard Shad, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Pumpkinseed, Bluegill, and Largemouth Bass:

	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>	<u>2002</u>	<u>2001</u>	<u>2000</u>	<u>1995</u>	<u>1994</u>
All Native Species	67.3	153.3	69.3	85.3	77.9	100.4	94.3	57.2	80.4	189.9	135.9	32.9	22.0	1.8
Gizzard Shad	13.3	60.4	50.4	56.6	24.4	58.3	58.9	39.2	71.2	153.0	100.6	24.9	5.5	0.2
Emerald Shiner	0.7	3.1	0.1	3.1	8.3	2.8	8.0	3.6	1.2	10.8	10.2	3.1	3.5	0.5
Bluntnose Minnow	8.8	17.6	3.8	14.8	24.1	20.7	14.2	5.2	4.0	10.3	15.1	0.4	0.3	0.3
Green Sunfish	11.4	41.1	10.9	6.1	9.2	5.3	5.3	1.9	0.8	7.0	4.7	0.9	1.0	0.2
Pumpkinseed	13.1	10.7	0.3	0.4	5.0	4.3	1.2	3.4	--	0.6	0.2	0.1	--	--
Bluegill	14.1	14.5	0.9	0.4	1.8	2.8	1.4	0.4	0.4	1.6	1.2	0.2	--	0.2
Largemouth Bass	3.3	1.6	1.4	1.8	2.3	2.6	1.2	1.7	1.4	1.1	1.4	1.5	10.7	--
All Native Species less these 7 Species	2.6	4.3	1.5	2.1	2.8	3.6	4.1	1.8	1.4	5.5	2.5	1.8	1.0	0.4

The 2013 native fish catch rate ranked tenth among the 14 years compared, but it was statistically similar to all other years except 1994 and 1995 when the lowest CPEs were recorded (Table 19). Lower CPE in 2013 was primarily due to the lower catch rates of Gizzard Shad, Emerald Shiner, and Bluntnose Minnow. The 2013 catch rates for Gizzard Shad and Emerald Shiner were the third lowest to date. In contrast, CPEs of Green Sunfish, Pumpkinseed, Bluegill, and Largemouth Bass were either the highest or second highest to date. Higher catch rates for these four species were likely due to a greater areal extent and density of submergent macrophytes at main channel border Locations 302A and 302B during 2012 and 2013. These data suggest that the December 2009 rotenone event had no long-term effect on the sunfish community in lower Lockport Pool (Table 16).

The 2013 mean IWBmod score (3.6) was the fifth highest to date. It was significantly higher than the 1994, 1995, and 2000 scores, but statistically similar to the other 10 years (Table 19). Ohio EPA (1987, updated 2014) uses IWBmod scores to divide streams or stream segments into the following classifications for the Eastern Corn Belt Plains ecoregion: Exceptional = ≥ 9.6 ; Very Good = 9.1-9.5; Good = 8.5-9.0; Marginally Good = 8.0-8.4; Fair = 6.4-7.9; Poor = 5.0-6.3; and Very Poor = ≤ 4.9 . According to this classification scheme, the fish community in lower Lockport Pool would be classified as very poor each year.

Total and mean native richness values in 2013 (18 and four species, respectively) were within the range of values observed during the previous 13 study years (Tables 16 and 19). Total native species richness values were highest in 2002, 2010, and 2011 (Table 16). The total numbers of species collected in these three years (20 to 24 species) were approximately two-times higher than in 1995, 2000, and 2005 (11 species each year), and approximately three-times higher than in 1994 (seven species). The total number of species collected in 2010 (22) and 2011 (20) suggests minimal impacts from the December 2009 rotenone event. Conversely, this event appeared to depress mean species richness values in 2010 and 2011, as those values were the lowest among the past eight years. Mean native species richness rebounded in 2012.

Although the fish community in lower Lockport Pool has improved compared to 1994, 1995, and 2000, the fish community within this segment continues to be very poor as evidenced by: 1) low catch rates of native species other than Gizzard Shad and two highly tolerant species (i.e., Bluntnose Minnow and Green Sunfish); 2) very poor mean IWBmod scores (consistently less than or equal to four); and 3) very low mean species richness (two to five species per electrofishing effort in recent years).

4.4.1.2 Brandon Pool

Although the 2013 catch rate from Brandon Pool (70.1 fish/km) was the lowest since 2005, it was statistically similar to 10 of the other 13 years (Tables 16 and 19). Duncan's Multiple Range Test indicated that the 2013 catch rate was significantly higher than the 2005 catch rate even though the two means were nearly identical. The 2013 catch rate was also significantly higher than the 1994 and 1995 catch rates. Interyear differences in catch rates were primarily due to the variability in the abundance of Gizzard Shad, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Pumpkinseed, Bluegill, and Largemouth Bass. For example, CPEs excluding these seven species are statistically similar among all study years (Table 19):

	2013	2012	2011	2010	2009	2008	2007	2006	2005	2002	2001	2000	1995	1994
All Native Species	70.1	150.5	127.2	116.6	82.7	133.2	142.9	83.5	70.0	164.2	79.2	90.3	88.6	20.6
Gizzard Shad	25.1	72.8	80.3	57.3	20.8	52.0	52.6	21.3	42.2	75.9	28.0	20.0	7.7	0.9
Emerald Shiner	1.0	1.8	2.5	7.4	8.0	18.2	23.2	27.0	6.0	24.7	17.6	7.3	2.8	0.2
Bluntnose Minnow	11.0	18.9	6.8	14.5	20.6	36.4	47.7	18.2	10.0	29.0	16.4	20.1	67.6	3.9
Green Sunfish	6.1	18.6	17.2	18.5	15.8	9.0	6.6	4.6	4.0	23.6	8.3	31.5	3.2	6.3
Pumpkinseed	4.0	8.9	0.4	0.3	1.3	2.2	0.7	1.8	--	0.1	--	--	--	--
Bluegill	9.5	20.8	8.0	4.2	2.4	3.3	1.3	1.8	0.7	1.4	1.1	2.0	0.4	--
Largemouth Bass	3.4	0.8	1.8	4.3	3.7	2.5	1.5	1.5	0.5	0.5	0.3	1.8	2.4	--
All Native Species less these 7 species	10.0	8.0	10.1	10.1	10.2	9.5	9.4	7.4	6.6	9.0	7.6	7.5	4.4	9.2

Catch rates for these seven common to abundant species in 2013 differed to varying degrees compared to their catch rates during the previous 13 study years. For example, catch rates of Pumpkinseed, Bluegill, and Largemouth Bass were the second or third highest to date. The 2013 catch rates for the three *Lepomis* species were much lower than in 2012 when their catch rates were at least the third highest to date. Improved catches of Pumpkinseed and Bluegill in 2012 were attributed to an increase in the areal extent and density of submergent macrophytes at all main channel border locations, as well as within the mouth of the upper Des Plaines River (EA 2014a). Overall, lower catch rates in 2013 reflect below normal catches of Gizzard Shad, Emerald Shiner, Bluntnose Minnow, and Green Sunfish (Table 19).

The 2013 mean IWBmod score (4.8) was the highest to date for the study, but only slightly higher than four other years when means ranged from 4.6 to 4.7 (Table 19). The mean score in 2013 was significantly higher compared to only 1994, 1995, and 2005. The fish community in Brandon Pool would be classified as very poor during all 14 years based on Ohio EPA's classification of IWBmod scores.

The total number of native species collected in 2013 (26 species) was within the range of values (14 to 34 species) reported during the previous 13 study years (Table 16). Total species richness was highest in 2002 and from 2007 through 2011. The total numbers of species collected in these six years (31 to 34 species) were approximately two-times higher than in 1994 and 1995 (14 and 15 species, respectively), and approximately 20 to 50 percent higher than in the remaining six years (22 to 26 species per year). Mean native species richness has been six to seven species from 2006 through 2013; these values were significantly higher compared to only those in 1994, 1995, and 2005 (Table 19).

Collectively, the electrofishing data from Brandon Pool show that its fish community has improved somewhat compared to 1994, 1995, and 2005. However, these same data show that the fish community within this segment is still very poor based upon low IWBmod scores, low mean species richness, and the fact that highly tolerant native species and two prolific, pelagic species (Gizzard Shad and Emerald Shiner) have collectively composed greater than 58 percent of the catch during each of the past 14 study years (Table 16).

4.4.2 Downstream of Brandon Road Lock and Dam

For the Upstream I-55 and Downstream I-55 segments, electrofishing data were compared among the past 19 study years (1994, 1995, and 1997-2013) to determine whether the adjusted thermal standards at the I-55 Bridge have had an adverse impact on the fish community subsequent to adoption of the adjusted standards (1997-2013). Data used for comparative purposes were restricted to those collected between 15 June and the end of August, a period

when the adjusted thermal standards and the warmest summer temperatures coincide. Again, seining data are excluded and data compared are from the same locations, except that Location 405 was not sampled from 1997 through 2000 and data from Location 404A were excluded from analyses because it was not sampled prior to 2001. Note that the results from these segments during 2007-2013 may have been negatively influenced by dense macrophytes, particularly mats of duckweed/algae, which interfered with sampling at some locations and caused atypically low DO values at backwater locations during 2011-2013. In addition, results from 2010 through 2013 results may have also been negatively influenced by MRWG sampling (EA 2008b, 2010a, 2011, 2012, 2013, and 2014a; Section 2.6).

4.4.2.1 Upstream I-55

CPEs during the past 17 years (1997-2013) were significantly higher compared to 1994 and 1995 (Tables 20 and 21). Higher CPEs during these years, compared to 1994 and 1995, were primarily due to higher catch rates of Spotfin Shiner, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Bluegill, hybrid *Lepomis*, and Largemouth Bass (Table 20). For example, CPEs excluding these seven taxa were statistically similar among all years (Table 21).

The catch rate in 2013 (110.4 fish/km) was below the average catch rate (157.9 fish/km) among the previous 18 years. It was significantly higher compared CPEs in 1994 and 1995, but significantly lower than in 2003, 2007, and 2008. The 2013 catch rate largely reflected catches of Gizzard Shad, Bluntnose Minnow, Green Sunfish, Bluegill, and Largemouth Bass that collectively accounted for 78 percent of the native species catch (Table 20). These five species, along with Emerald Shiner, were the six most abundant species collected among the previous 18 years:

<u>Taxa</u>	<u>1994-2012 CPEs</u>			2013
	<u>Mean</u>	<u>Min.</u>	<u>Max.</u>	<u>CPE</u>
Gizzard Shad	41.0	8.5	86.5	17.4
Green Sunfish	25.2	3.3	55.2	9.8
Bluntnose Minnow	23.2	3.0	63.1	16.3
Bluegill	21.2	0.7	43.8	31.8
Emerald Shiner	10.2	1.3	45.8	0.8
Largemouth Bass	8.2	2.0	16.9	10.9

The 2013 catch rates of four of these six species were below average, particularly those for Gizzard Shad, Emerald Shiner, and Green Sunfish. The catch rates of Bluegill and Largemouth Bass were above average (Table 20). The 2013 catch rate for Emerald Shiner was well below average that continued a trend of low catch rates since 2010.

Mean IWBmod scores were higher during 16 of the past 17 years compared to 1994 and 1995, but significantly higher only in 2003, 2004, and 2008 compared to 1994, 1995, 2005, and 2012 (Table 20). The mean 2013 IWBmod score (6.6) was only exceeded by six other years and was statistically similar to all previous years. Based on Ohio EPA's classifications of IWBmod scores, the Upstream I-55 segment would have been considered poor during 1994, 1995, 1997, 2001, 2005, and 2012, and fair during all other years. Mean IWBmod scores during the past eight years (6.0 to 7.0) were higher than in 2005 (5.8), which was the lowest score since 1995.

Mean native species richness values were also higher during 16 of the past 17 years compared to 1994 and 1995 (Table 21); however, annual differences were significant during only four of

these 16 years when mean richness ranged from 11 to 12 native species. The mean value for 2013 (eight species) was within the historical range. It was statistically similar to 14 previous years, but significantly lower than in 2003 and from 2007 through 2009. The total number of native species collected in 2013 (32 species) was similar to totals (28 to 39 species) from the previous eight years (Table 20).

Mean water temperatures have not influenced catch results from the Upstream I-55 segment among the past 19 years. For example, no significant linear relationships ($R^2 \leq 0.14$) were evident between mean water temperatures and mean CPE, IWBmod, or native species richness values (Figure 13). The mean summertime water temperature in 2013 was the second lowest among the past 19 years.

The data collectively show that the fish community within the Upstream I-55 segment during the past 17 years is better than it was during 1994 and 1995, as CPEs during each of the past 17 years were significantly higher than in 1994 and 1995. Although not statistically significant in all years, mean IWBmod and native species richness values have been higher during 16 of the past 17 years (all except 2005) than in 1994 and 1995. For 2013, mean CPE, IWBmod, and native species richness values were within their respective ranges established the previous 18 years and were statistically similar to the majority of the previous years.

4.4.2.2 Downstream I-55

The 2013 electrofishing results at all four locations within the Downstream I-55 segment were negatively affected by dense beds of macrophytes and/or very dense mats of duckweed/algae during the August sampling events (see Section 2.2.4). The frequency of occurrence, areal extent, and density of duckweed/algal mats in both 2012 and 2013 were the greatest (worst) among the past 19 years. These adverse conditions reduced the field crews' ability to see and capture fish that were stunned during electrofishing. In addition, they also caused atypically low DO at backwater Locations 414 and/or 418 during the August sampling events in 2012 and 2013 (Section 3.1.2; EA 2014a). As such, the 2012 and 2013 summertime electrofishing results were abnormally low.

The 2013 electrofishing catch rate (155.1 fish/km) was well below the average (290.4 fish/km) of the previous 18 years (Tables 21 and 22). However, it was significantly lower than only 2003, 2006, 2008, and 2010, and statistically similar to the other 14 years (Table 21). Bluegill, Gizzard Shad, Largemouth Bass, Green Sunfish, and Bluntnose Minnow were the most abundant species in 2013, composing 92 percent of the catch (Table 22). These same five species, along with Orangespotted Sunfish, were the most abundant species collected during the previous 18 years combined:

<u>Taxa</u>	<u>1994-2012 CPEs</u>			<u>2013</u>
	<u>Mean</u>	<u>Min.</u>	<u>Max.</u>	<u>CPE</u>
Gizzard Shad	78.6	14.4	217.3	19.1
Bluegill	69.4	1.8	153.3	78.9
Bluntnose Minnow	36.2	1.8	151.5	8.9
Orangespotted Sunfish	20.6	4.5	89.9	0.6
Green Sunfish	18.3	2.0	56.6	17.3
Largemouth Bass	14.6	1.0	43.1	17.9

The 2013 catch rates for four of these six species were below average, particularly for Gizzard Shad, Bluntnose Minnow, and Orangespotted Sunfish. The catch rate of Gizzard Shad was the second lowest to date, the catch rate of Orangespotted Sunfish was the lowest to date, and Bluntnose Minnow catch rates have been below average since 2011. In contrast, the catch rates of Bluegill and Largemouth Bass in 2013 were above average (Table 22).

The 2013 mean IWBmod score (6.4) for the Downstream I-55 segment was the second lowest observed since 1994 (Table 21). It was significantly lower than seven previous years, but statistically similar to the other 11 years. Based on Ohio EPA's classifications of IWBmod scores, this segment would have been considered poor in 1994 and 2012, but fair during the other 17 years.

The mean native species richness values for 2012 and 2013 (eight species) were the lowest to date (Table 21). Mean species richness in 2013 was significantly lower than 12 previous years, but statistically similar to the other six years. The total number of native species collected in 2013 (27 species) was the fourth lowest observed for the study and similar to the number collected in 1994, 1995, and 2012 (24 to 25 species) (Table 22).

As was observed for the Upstream I-55 segment, mean water temperatures also had no apparent influence on catch results from the Downstream I-55 segment among the past 19 years. Again, no significant linear relationships ($R^2 \leq 0.11$) were observed between mean water temperatures and mean CPE, IWBmod, or native species richness values within this segment (Figure 14). The mean summertime water temperature in 2013 was the fourth lowest among the past 19 years. Furthermore, if the study years are grouped by mean water temperature, mean IWBmod and native species richness values from the five warmest (i.e., $\sim 30^\circ\text{C}$) years are similar to those from the six coolest (i.e., $\leq 28.2^\circ\text{C}$) years. Mean values from the eight years with intermediate (i.e., $\sim 29^\circ\text{C}$) temperatures are higher compared to the warmest and coolest years:

	<u>$\sim 30^\circ\text{C}$</u> ('95, '98, '01, '05, '11)	<u>$\sim 29^\circ\text{C}$</u> ('99-'00, '02-'03, '06, '08, '10, '12)	<u>$\leq 28.2^\circ\text{C}$</u> ('94, '97, '04, '07, '09, '13)
IWBmod	6.9	7.4	6.7
Species richness	10.9	11.8	10.2

Although the mean CPE in 2013 was statistically similar to most of the previous study years, the mean IWBmod and native species richness values in 2013 were significantly lower compared to seven and 12 previous years, respectively. These lower means are due to the adverse sampling conditions and low DO episodes caused by dense beds of macrophytes and/or very dense mats of duckweed/algae. Although catch parameters were below normal in 2013, it is not clear whether these below normal results were an accurate representation of the fish community or if they were an artifact caused by low sampling efficiency.

4.4.3 Summary

Interyear analyses of the electrofishing data revealed that: 1) the fish community in lower Lockport Pool has improved and is currently significantly better than it was in 1994 and 1995; however, it is still very poor; 2) the fish community in Brandon Pool has also improved compared to 1994 and 1995, but is also still very poor; 3) the fish community in the Upstream I-55 segment during the past 17 years is better than the one that was present during 1994 and

1995; 4) electrofishing community measures were noticeably lower in the Downstream I-55 segment during 2011-2013, but were not related to operation of the upstream power plants; and 5) mean 2013 CPE, IWBmod, and native species richness values from the three upstream segments were either significantly higher or statistically similar to most previous years. Thus, the adjusted thermal standards for the UIW downstream of the I-55 Bridge, which went into effect in 1997, have not adversely impacted the fish communities in the Upstream I-55 or Downstream I-55 segments during the past 17 years.

4.5 FISH CONDITION

4.5.1 Longitudinal Comparisons

Mean W_r values were compared among the four segments to determine how the longitudinal relationships observed in 2013 compared to previous years. As discussed in Section 3.4.1, exotic species are excluded from this analysis. In addition, October/November data collected in 1994 and 1995 were also excluded. Longitudinal relationships are discussed below for the following seven native species: Gizzard Shad, Smallmouth Buffalo, Channel Catfish, Green Sunfish, Bluegill, Largemouth Bass, and Freshwater Drum. The remaining species were excluded because insufficient sample sizes (i.e., less than 10 fish in most segments and years) precluded meaningful analyses (Table 23).

The longitudinal relationships for Gizzard Shad have been inconsistent among the 14 years compared (Table 24). In some years (i.e., 2002, 2006, 2007, and 2009), mean W_r values for the lower Lockport Pool were significantly lower compared to all or most of the other segments (Table 24). Conversely, the mean W_r value for lower Lockport Pool in 2000 was significantly higher compared to all other segments, whereas in 2001, 2008, 2010, and 2012, mean W_r values were statistically similar among at least three of the four segments. Small samples of Gizzard Shad precluded longitudinal comparisons of lower Lockport Pool to the three downstream segments in 1994, 1995, and 2011. The relationship of mean W_r values in Brandon Pool relative to the other segments was similarly erratic. The only consistent longitudinal relationship for Gizzard Shad was that mean W_r values were statistically similar between the Upstream I-55 and Downstream I-55 segments each year except 2011 and 2013 when the mean W_r from the Upstream I-55 segment was significantly higher compared to the Downstream I-55 segment.

Unlike Gizzard Shad where longitudinal comparisons could be made among at least three of the four segments, comparisons for Smallmouth Buffalo were confined to the Upstream I-55 and Downstream I-55 segments because this species was absent or collected in low numbers upstream of Brandon Road Lock and Dam (Table 23). Mean W_r values for this species were statistically similar between the Upstream I-55 and Downstream I-55 segments during 11 of the past 14 years (Table 24). In 1994 and 2010, Smallmouth Buffalo mean W_r values were significantly higher in the Downstream I-55 segment than in the Upstream I-55 segment, but the reverse was true in 2000.

The longitudinal relationships for Channel Catfish have been similar among the past 14 years for those segments compared (Table 24). Its mean W_r values were statistically similar between the Upstream I-55 and Downstream I-55 segments during each of the 14 years, and statistically

similar among the lower three segments during 11 of 13 years. Lower Lockport Pool had sufficient sample sizes during seven (2001, 2002, 2005 through 2007, 2009, and 2013) of the 14 years to allow comparisons among all four segments. Mean W_r values from lower Lockport Pool were significantly lower than those from the Upstream I-55 and Downstream I-55 segments during six years of these seven years, and were statistically similar to those from Brandon Pool during four of these seven years.

As observed for Gizzard Shad, the longitudinal patterns for Green Sunfish have also been inconsistent among the 14 years compared (Table 24). Mean Green Sunfish W_r values were statistically similar among the segments compared in seven years, whereas in the other seven years, mean W_r values differed significantly among segments. Mean W_r values from lower Lockport Pool were significantly lower than Brandon Pool in 2006, but significantly higher than Brandon Pool during 2011 and 2012. Mean W_r values for the Upstream and Downstream I-55 segments were statistically similar except in 1994, 2011, and 2013. In each case, the difference was due to the extent that W_r values were above 100 (Table 24).

The longitudinal relationships for Bluegill and Largemouth Bass have been relatively consistent among years (Table 24). Among segments compared, mean W_r values for Bluegill were statistically similar during nine of the past 13 years and mean W_r values for Largemouth Bass were statistically similar during eight of the past 13 years. When significant differences occurred, it was between segments that had mean W_r values approaching or exceeding 100 for both species.

The longitudinal relationship for Freshwater Drum has also been relatively consistent among years (Table 24). Significant differences occurred during eight of the past 13 years and in seven of those years, mean W_r values from Brandon Pool were significantly higher than in the Upstream I-55 and/or Downstream I-55 segments. When significant differences occurred, it was between segments that had mean W_r values approaching or exceeding 100. Mean W_r values for Freshwater Drum were statistically similar among segments during five of the 13 years analyzed.

4.5.2 Interyear Comparisons

Interyear analyses were performed for each segment to determine if there were significant differences in mean W_r values over the past 19 study years (i.e., 1994, 1995, and 1997-2013) (Tables 25 and 26). Analyses were performed for the same native species discussed in the previous section, plus Longnose Gar, Yellow Bullhead, Pumpkinseed, and Smallmouth Bass. Again, exotic species and October/November data from 1994 and 1995 are excluded from the analyses. For each of the 11 species, interyear analyses were only performed for those segments that had sufficient sample sizes in 2013 and in three or more of the previous study years.

The mean W_r for Longnose Gar in 2013 (82) from the Upstream I-55 segment was within the range of means from previous years compared (Table 26). Mean W_r values ranged from 82 to 90 during seven of the past eight years and these values were significantly higher than the low mean W_r (74) in 2003. The mean W_r in 2011 (79) was significantly lower than those from 2006 through 2008, but statistically similar to mean W_r values in 2009, 2010, 2012, and 2013. These means are similar to the range of seasonal mean values (78 to 95) and the overall mean (84)

reported upstream and downstream of Lock and Dam 21 on the Mississippi River (EA 2010b). Therefore, it is unclear whether the condition of Longnose Gar from both studies was typically suboptimal or that the W_s equation may not be appropriate for Longnose Gar populations in certain geographic areas.

Mean W_r values for Gizzard Shad from three of the four segments in 2013 were within the range of their respective values from previous years (Table 26). The mean W_r (92) from lower Lockport Pool in 2013 was statistically similar to all previous years except in 2010, which had the highest mean for that segment. In Brandon Pool, the 2013 mean W_r (96) was similar to nine of the previous 13 years, significantly lower than in 2009 and 2010, and significantly higher than in 2000 and 2005. The 2013 mean W_r (91) for the Upstream I-55 segment was significantly lower than means from 15 of the previous 18 years and only significantly higher than the 2000 mean (87), which was lowest of the study (Table 26). The 2013 mean W_r (85) for the Downstream I-55 segment was the lowest to date and was significantly lower than all previous years (Table 26). Prior to 2013, the lowest mean W_r values from the Upstream I-55 and Downstream I-55 segments occurred in 2000, 2003, and 2004, and results from those three years were likely due to greater competition for food. For example, the relative weight sample sizes for both segments combined in these three years were the highest among the past 19 study years (Table 25). This suggests that the populations of Gizzard Shad greater than 180 mm downstream of Brandon Road Lock and Dam were high in those years. The relative weight sample size for both segments combined in 2013 ranked eight among the 19 years, about 58 to 72 percent fewer than in the previous three years with low mean W_r values. This suggests that the lower mean W_r values from the Upstream I-55 and Downstream I-55 segments in 2013 may have been due to a greater inter-species competition for food rather than intra-species competition, which likely occurred in 2000, 2003, and 2004. For example, Irons et al. (2007) reported that declines in gizzard shad condition within the Illinois River was significantly correlated with increased commercial harvest of Asian carp and poorly correlated with other abiotic and biotic factors (e.g., temperature, chlorophyll a, and discharge) that may influence fish body condition. These results suggest that Asian carp may be influencing native planktivore body condition. The 2013 commercial harvest rate of Asian carp in Dresden Island Pool was 16 fish per mile of net, which was approximately two-times higher than the rate for the previous three years combined (ACRCC 2014).

Mean Smallmouth Buffalo W_r values from both segments downstream of Brandon Road Lock and Dam in 2013 were within the range of their respective values reported during the previous 18 years (Table 26). For the Upstream I-55 segment, the 2013 mean W_r (87) was statistically similar to 12 of the previous 18 years, significantly higher compared to 1994, and significantly lower compared to 1995, 2000, 2001, 2002, and 2007. The 2013 mean W_r (91) for the Downstream I-55 segment was statistically similar to 17 of the previous 18 years, but significantly higher than the lowest mean (83) from 2009. Mean W_r values from these two segments during the past 19 years have ranged from 82 to 95. This is similar to the range of seasonal mean values (83 to 92) reported upstream and downstream of Lock and Dam 21 on the Mississippi River (EA 2010b). Therefore, it is unclear whether the condition of Smallmouth Buffalo from both studies was typically suboptimal or that the W_s equation may not be appropriate for populations in certain geographic areas.

Smallmouth Bass sample sizes were sufficient for interyear analysis only for the Upstream I-55 segment and among 14 of the past 19 study years. The 2013 mean Wr (88) was statistically similar to 11 of the previous 13 years compared, but significantly lower than in 2008 and 2009 (Table 26). Smallmouth Bass appeared to be in suboptimal condition within this segment during seven of the 13 years compared, when mean Wr values ranged from 81 to 88. However, these means were similar to Wr values for Smallmouth Bass from six Iowa interior rivers that varied from 83 to 100 and mean Wr values were less than 100 in four of the six rivers (Jansen et al. 2008).

Although interyear differences for Yellow Bullhead, Channel Catfish, Green Sunfish, Pumpkinseed, Bluegill, Largemouth Bass, and Freshwater Drum were often significant, mean Wr values for all eight of these species were consistently greater than or equal to 96, and usually greater than 100 (Table 26). These Wr values indicate that when significant interyear differences occurred, they were due primarily to the extent in which Wr values exceeded the optimal value of 100 and not to suboptimal fish condition. Mean 2013 Wr values for each of these seven species were greater than 100 within all segments compared except for Largemouth Bass that had a mean Wr of 99 in the Upstream and Downstream I-55 segments, and Freshwater Drum that had a mean Wr of 98 in the Downstream I-55 segment (Table 26).

4.5.3 Summary

Analysis of fish condition shows that there have been significant longitudinal and interyear differences in mean Wr values; however, because 93 percent of the longitudinal means (Table 24) and 91 percent of the interyear means (Table 26) were greater or equal to 90, it is apparent that the significant differences were due primarily to the extent in which Wr values exceeded the optimal value of 100 and not to suboptimal fish condition. In fact, over the past 19 study years, only 39 of the 442 interyear mean Wr values (9 percent) were low enough (i.e., less than 90) to suggest that there may have been a health, food availability, and/or feeding relationship problem (Table 26). These instances were as follows: 1) Longnose Gar from the Upstream I-55 segment during 2003, 2006-2007, and 2009-2013; 2) Gizzard Shad from lower Lockport Pool in 2007; 3) Gizzard Shad from the Upstream I-55 segment during 2000 and 2003; 4) Gizzard Shad from the Downstream I-55 segment in 2000 and 2013; 5) Smallmouth Buffalo from the Upstream I-55 segment during 1994, 2003-2006, and 2008-2013; 6) Smallmouth Buffalo from the Downstream I-55 segment during 1994, 2000, 2005-2006, 2008-2009, and 2011-2012; and 7) Smallmouth Bass from the Upstream I-55 segment during 1997-1998, 2003-2005, 2011, and 2013 (Table 26). Longnose Gar, Smallmouth Buffalo, and Smallmouth Bass are the only species that have routinely had Wr values less than 90; however, it is unclear whether these values represent suboptimal optimal fish condition or are an artifact associated with their Ws equations not being appropriate for Midwestern populations.

4.6 INCIDENCE OF DELT ANOMALIES

As discussed in Section 3.5, the following longitudinal and interyear analysis of DELT incidence rates includes exotic species, but excludes seining data. In addition, October/November data collected in 1994 and 1995 are also excluded.

4.6.1 Longitudinal Comparisons

The longitudinal patterns for the incidence rates of DELT anomalies were relatively similar among the 14 years compared, in that rates have typically exhibited stepwise increases from lower Lockport Pool downstream to the Upstream I-55 segment, with a decline in the Downstream I-55 segment:

<u>Year</u>	<u>Lower Lockport Pool</u>	<u>Brandon Pool</u>	<u>Upstream I-55</u>	<u>Downstream I-55</u>
2013	3.8	5.1	7.6	2.4
2012	0.4	2.5	3.6	1.3
2011	1.5	2.5	5.5	1.4
2010	0.3	2.3	5.6	1.3
2009	2.2	4.3	6.1	1.6
2008	1.4	2.6	6.1	1.7
2007	1.8	3.1	5.2	1.4
2006	4.5	4.6	7.8	1.8
2005	4.5	6.4	6.7	2.4
2002	2.3	3.3	5.7	2.4
2001	1.9	5.9	6.5	3.3
2000	5.2	6.7	9.4	3.1
1995	7.2	8.5	21.3	10.0
1994	18.3	23.4	23.1	7.4

Affliction rates upstream of Brandon Road Lock and Dam would probably be higher if this area had a normal complement of catostomid species; a group with high rates of DELT anomalies in the two segments downstream of the Brandon Road Lock and Dam. Affliction rates during 2013 in all segments were the highest since 2005 (Brandon Pool and Downstream I-55 segments) or 2006 (lower Lockport Pool and Upstream I-55 segments).

4.6.2 Interyear Comparisons

Affliction rates for the lower Lockport Pool and Brandon Pool segments were lowest in 2010 and highest in 1994 and 1995 (Tables 27 and 28). Lower affliction rates in recent years have been due, in part, to higher numbers of Bluntnose Minnow, Emerald Shiner, and/or Gizzard Shad, three common to abundant species that exhibit low incidences of DELT anomalies (Tables 27 and 28). If these three species are excluded from the DELT calculations, the interyear trends are somewhat different:

	<u>2013</u>	<u>2012</u>	<u>2011</u>	<u>2010</u>	<u>2009</u>	<u>2008</u>	<u>2007</u>	<u>2006</u>	<u>2005</u>	<u>2002</u>	<u>2001</u>	<u>2000</u>	<u>1995</u>	<u>1994</u>
Lower Lockport Pool	5.6	0.7	5.7	1.6	5.9	6.5	10.2	21.5	44.2	17.1	16.7	22.6	11.1	20.3
Brandon Pool	9.2	5.7	6.7	5.7	9.0	9.7	14.3	18.9	29.5	12.9	18.9	12.6	25.2	26.0

The recalculated incidence rates for lower Lockport Pool were lower in 1995 and from 2007 through 2013, highest in 2005, and relatively similar among the remaining years. This indicates that no long-term decline in incidence rates occurred in this segment from 1994 through 2005, but incidence rates have generally declined since 2005. In contrast, the recalculated affliction rates for Brandon Pool show that values from 2000 through 2002 and 2006 through 2012 were lower compared to 1994, 1995, and 2005. As observed for lower Lockport Pool, incidence rates in Brandon Pool have also generally declined since 2005; however, rates from both segments in 2013 without the three aforementioned species were higher than in 2012 when rates were the lowest among years compared.

Interyear comparisons for the Upstream I-55 and Downstream I-55 segments reveal that the affliction rates for both segments were higher in 1994 and 1995 than in any subsequent year (Tables 29 and 30):

	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1995	1994
Upstream I-55	7.6	3.6	5.5	5.6	6.1	6.1	5.2	7.8	6.7	15.0	6.3	5.7	6.5	9.4	8.9	7.3	16.2	21.3	23.1
Downstream I-55	2.4	1.3	1.4	1.3	1.6	1.7	1.4	1.8	2.4	7.2	2.0	2.4	3.3	3.1	2.8	2.1	3.3	10.0	7.4

The rates in both segments have generally declined since 2004, but were higher in 2013 than in 2012 when rates were the lowest to date for both segments.

As was the case in the upper two segments, the lower affliction rates for the I-55 segments in recent years have been due, at least in part, to higher numbers of Bluntnose Minnow, Emerald Shiner, and/or Gizzard Shad (Tables 29 and 30). However, even if these three species are excluded from the calculations, the affliction rates during the past 17 years (particularly during 1998-2003 and 2005-2013) are still lower than those observed in 1994 and 1995:

	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1995	1994
Upstream I-55	11.2	5.6	8.3	9.3	11.3	10.3	11.9	13.5	16.7	21.0	9.6	12.1	14.8	13.1	13.9	14.4	24.9	31.1	30.5
Downstream I-55	2.8	1.5	2.1	1.9	2.3	2.4	2.7	3.0	4.7	9.0	2.6	3.8	6.8	4.2	3.8	3.3	9.2	13.8	15.9

The 2013 affliction rates without the three aforementioned species were higher than in 2012 when rates were the lowest to date in both segments. Overall, there has been a general decline in affliction rates in both segments since 2004.

Examination of annual DELT affliction rates for common and abundant species collected from the Upstream I-55 and Downstream I-55 segments over the past 19 years reveals that: 1) rates have been lowest (typically 0 to 2 percent) for Gizzard Shad, small cyprinids, and Orangespotted Sunfish; 2) disproportionately higher rates (typically 20 to 50 percent) have been apparent for bottom feeders (i.e., Common Carp, catostomids, Freshwater Drum, and particularly Channel Catfish [consistently greater than 50 percent]); 3) rates for Green Sunfish during the past 12 years were the lowest to date; 4) Bluegill rates during the past 17 years were lower than in 1994 and 1995, particularly during the past nine years; 5) affliction rates for Largemouth Bass declined steadily from 2004 through 2010, increased in 2011 and 2012, but decreased slightly in 2013; and 6) affliction rates for Smallmouth Bass have been erratic (Table 31).

4.6.3 Summary

The longitudinal patterns for the incidence rates of DELT anomalies were similar among study years, exhibiting a stepwise increase from the lower Lockport Pool segment downstream to the Upstream I-55 segment, but then declining in the Downstream I-55 segment. Based on Ohio EPA's percent DELT metric in its Index of Biotic Integrity scoring system, lower Lockport Pool incidence rates were in the fair category (0.5 to 3.0 percent) during six years, in the poor category (>3.0 percent) during six years, and in the good category (<0.5 percent) in 2010 and 2012. Incidence rates for Brandon Pool were in the poor category each year except 2008 and from 2010-2012 when the incidence rates were in the fair category. The Upstream I-55 segment's rates have always been in the poor range, whereas rates from the Downstream I-55 segment have been in the fair category during 13 of the past 19 years, including 11 of the past 12 years. Overall, DELT anomaly affliction rates within most of the study area continue to be

abnormally high, particularly for bottom feeders. The disproportionately higher rates of affliction for bottom feeders suggest that the contaminated substrates within the study area are likely responsible for many of the DELTs observed on these species.

Comparisons of DELT affliction rates among study years revealed that affliction rates in the lower Lockport Pool and Brandon Pool segments generally declined from 2005 or 2006 through 2012, but increased in 2013. However, the 2013 incidence rates in these two segments were lower than five of the previous 13 years and markedly lower compared to 1994 and 1995. For the Upstream I-55 and Downstream I-55 segments, affliction rates have been consistently lower during the past 17 years than in 1994 and 1995, and were the lowest to date within both segments in 2012. Affliction rates in these two segments have generally been declining since 2004. Thus, it is apparent that the adjusted thermal standards at the I-55 Bridge have not adversely affected the affliction rates of DELT anomalies within the Upstream I-55 or Downstream I-55 segments since they went into effect.

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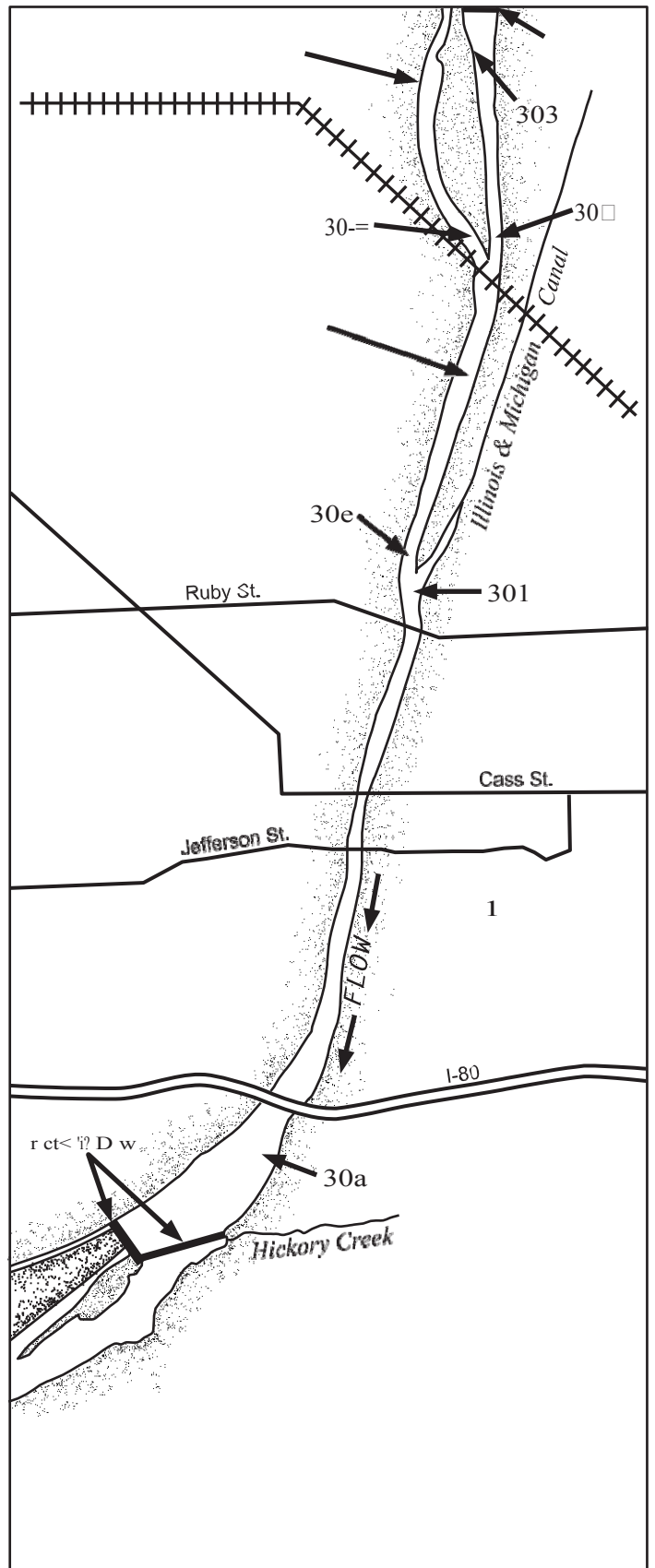
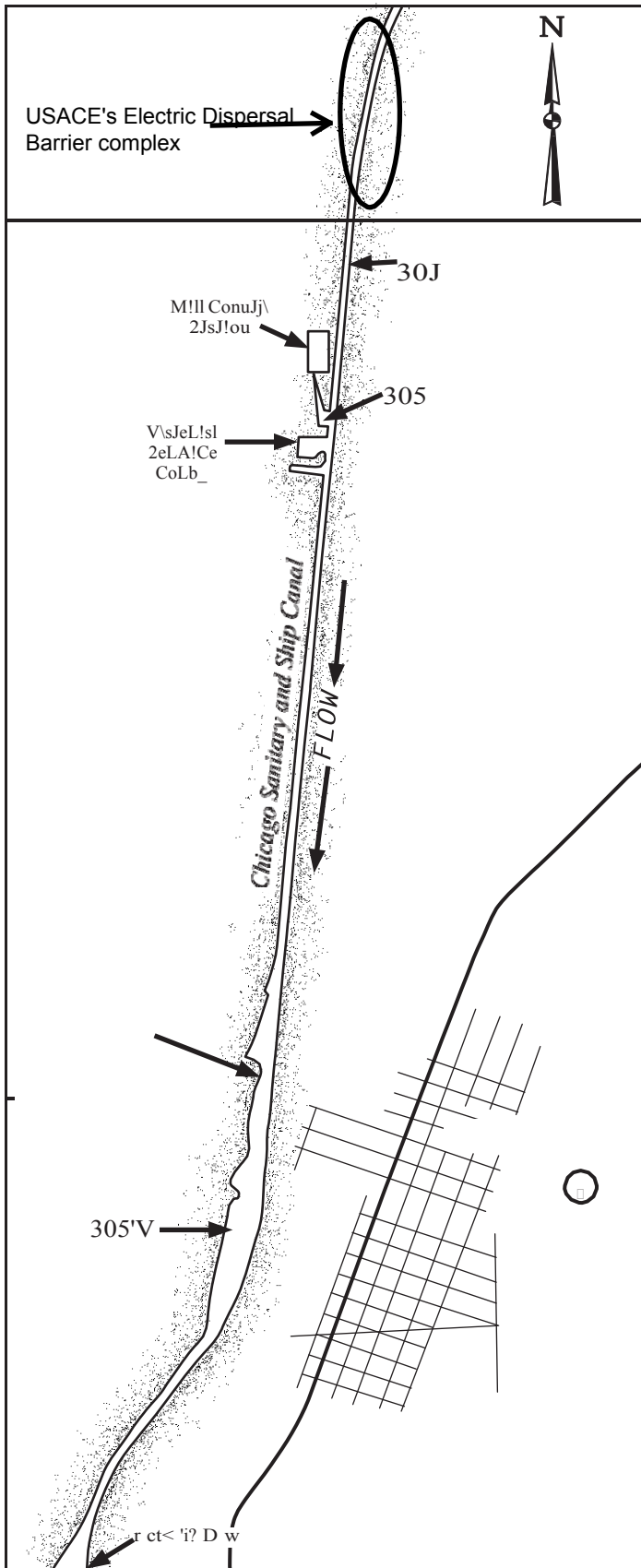
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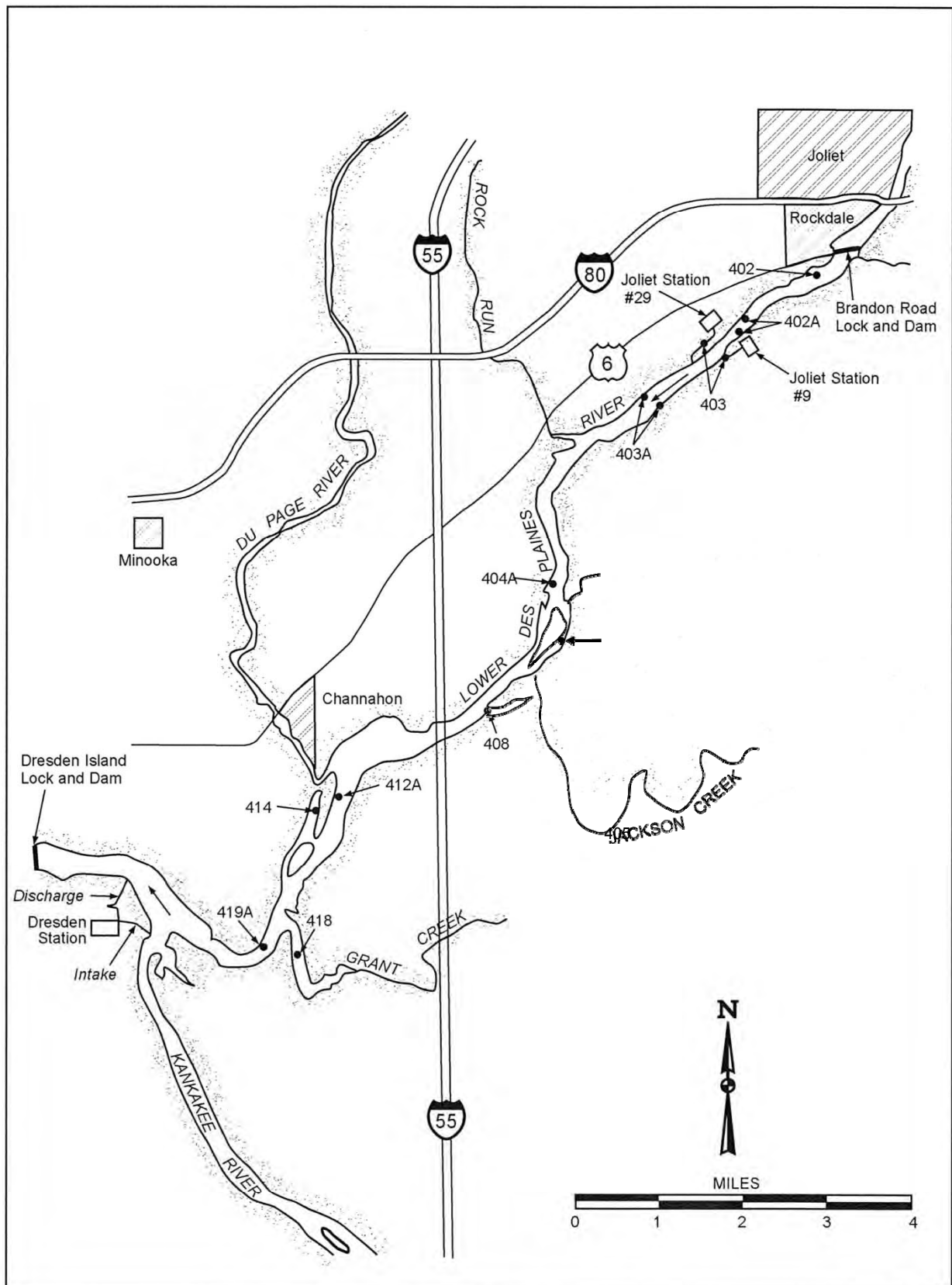


Figure 2. Fish Sampling Locations within the Upstream and Downstream I-55 Segments of the Lower Des Plaines River.

Figure 3. Expansion of American Lotus within the Mouth of Grant Creek, Location 418, from 2007 to 2011.



Mouth of Grant Creek, 2007.



Mouth of Grant Creek, 2009.



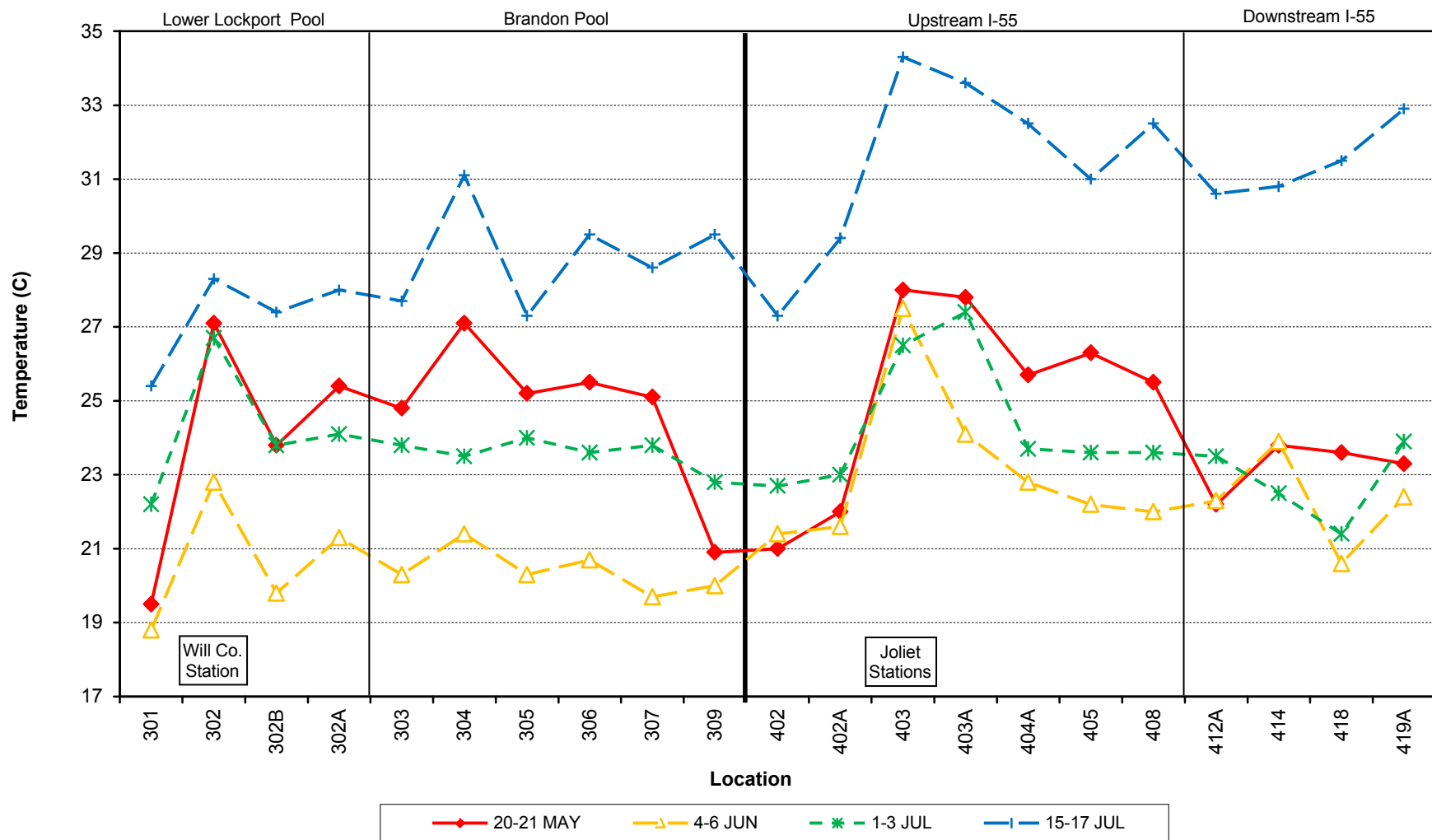
Mouth of Grant Creek, 2010.



Mouth of Grant Creek, 2011.

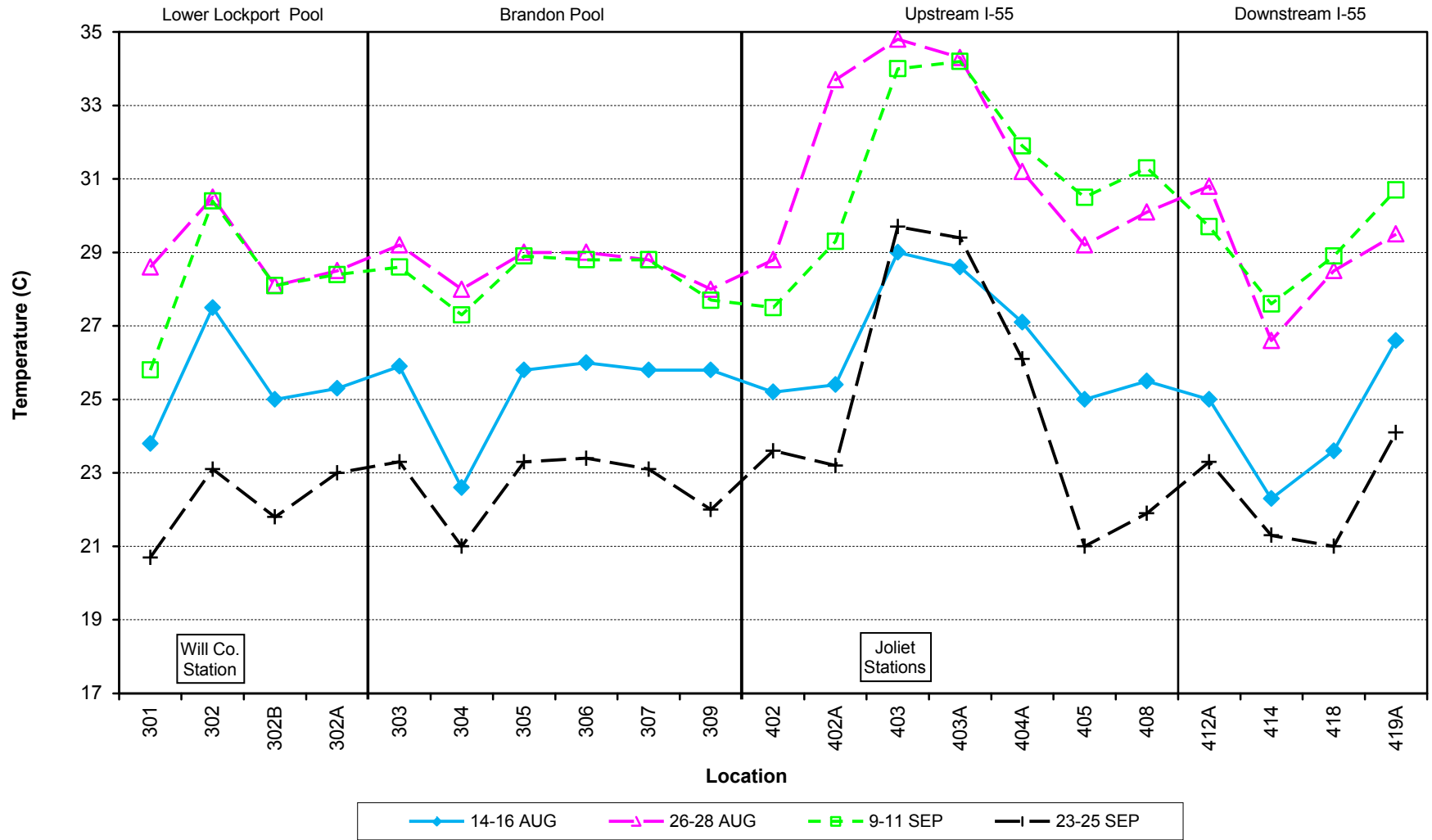
Source: Google Earth, accessed August 2014.

Figure 4. Spatial and Temporal Comparisons of Surface or Mid-Depth Water Temperatures at Electrofishing Locations, May-July 2013.



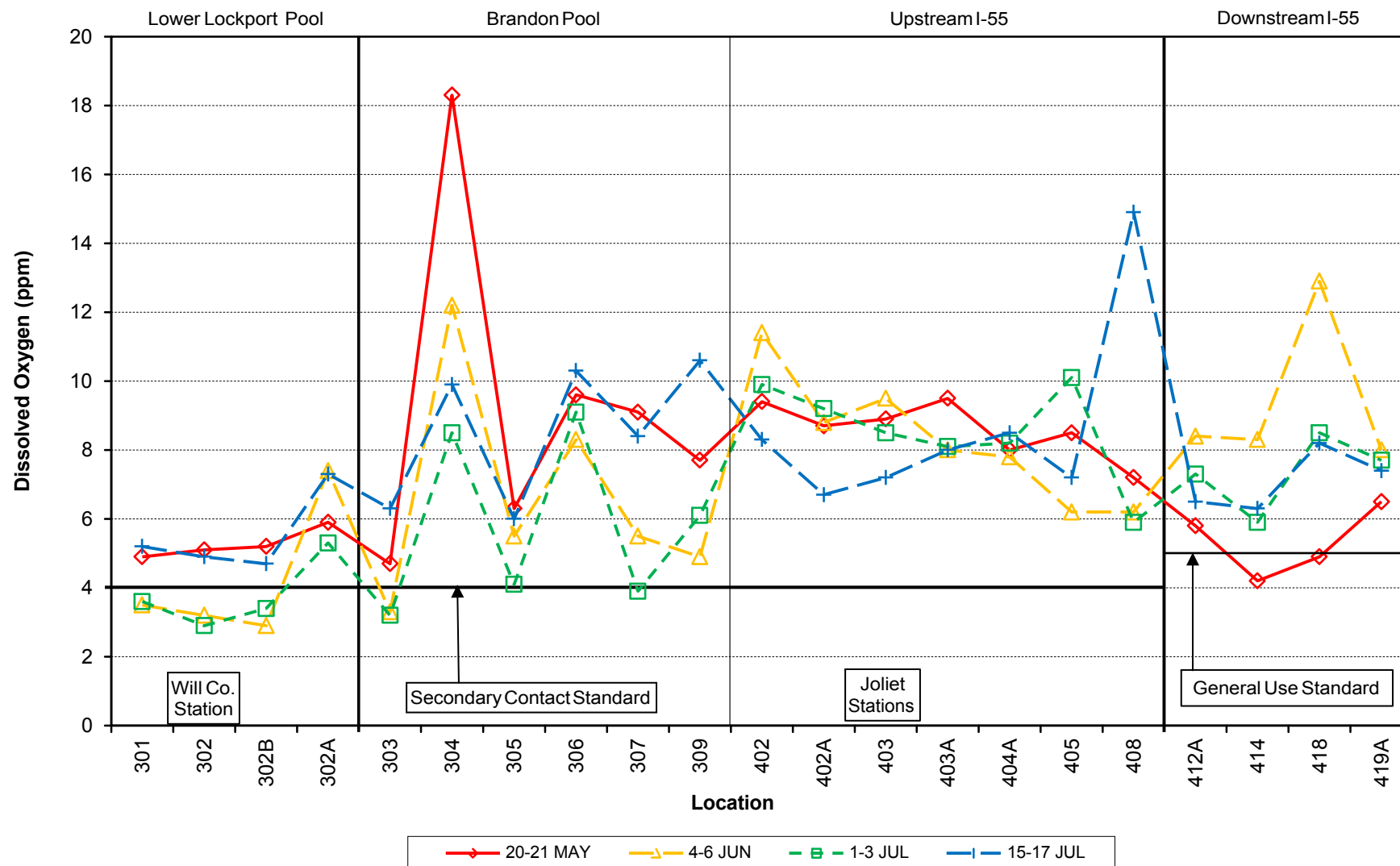
Note: Values for Location 403 are means of measurements from Joliet Stations' #9 and #29 discharge canals and values for Location 403A are means of measurements from both banks.

Figure 5. Spatial and Temporal Comparisons of Surface or Mid-Depth Water Temperatures at Electrofishing Locations, August-September 2013.



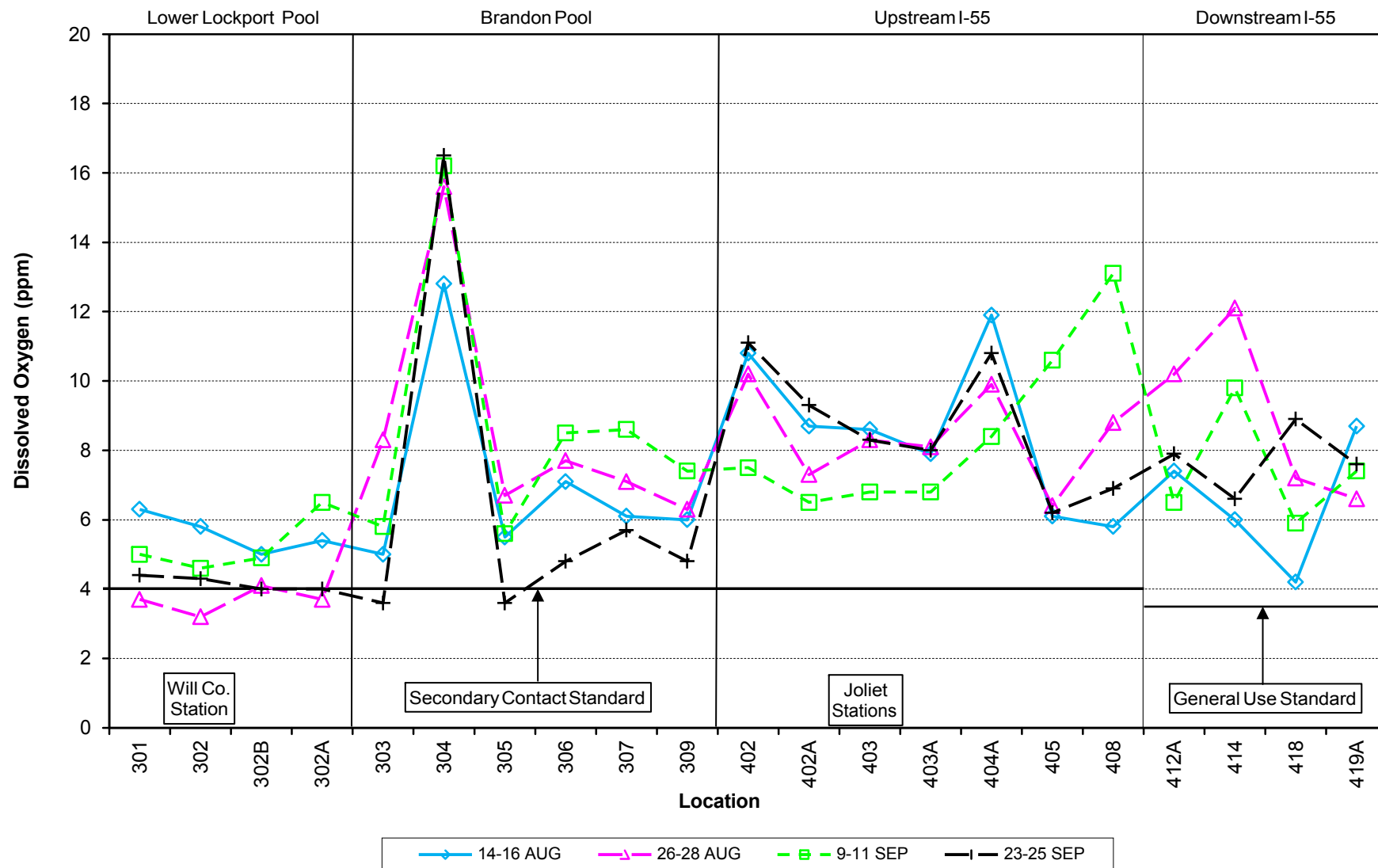
Note: Values for Location 403 are means of measurements from Joliet Stations' #9 and #29 discharge canals and values for Location 403A are means of measurements from both banks.

Figure 6. Spatial and Temporal Comparisons of Surface or Mid-Depth Dissolved Oxygen Measurements at Electrofishing Locations, May-July 2013.



Note: Values for Location 403 are means of measurements from Joliet Stations' #9 and #29 discharge canals and values for Location 403A are means of measurements from both banks.

Figure 7. Spatial and Temporal Comparisons of Surface or Mid-Depth Dissolved Oxygen Measurements at Electrofishing Locations, August-September 2013.



Note: Values for Location 403 are means of measurements from Joliet Stations' #9 and #29 discharge canals and values for Location 403A are means of measurements from both banks.

Figure 8. Longitudinal Comparisons of Electrofishing Catch Rates, 2013.

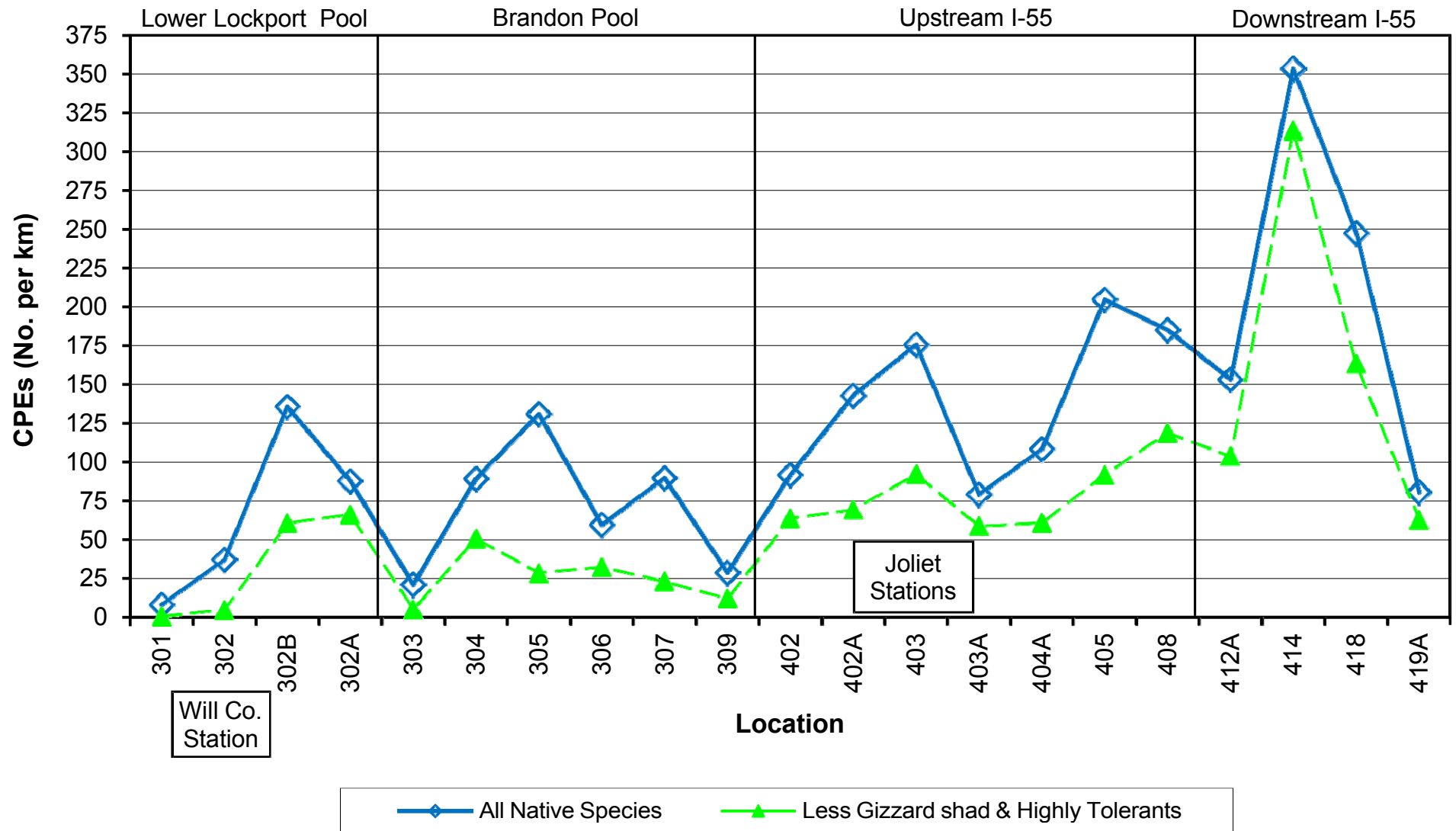


Figure 9. Longitudinal Comparisons of IWB and IWBmod Scores, 2013.

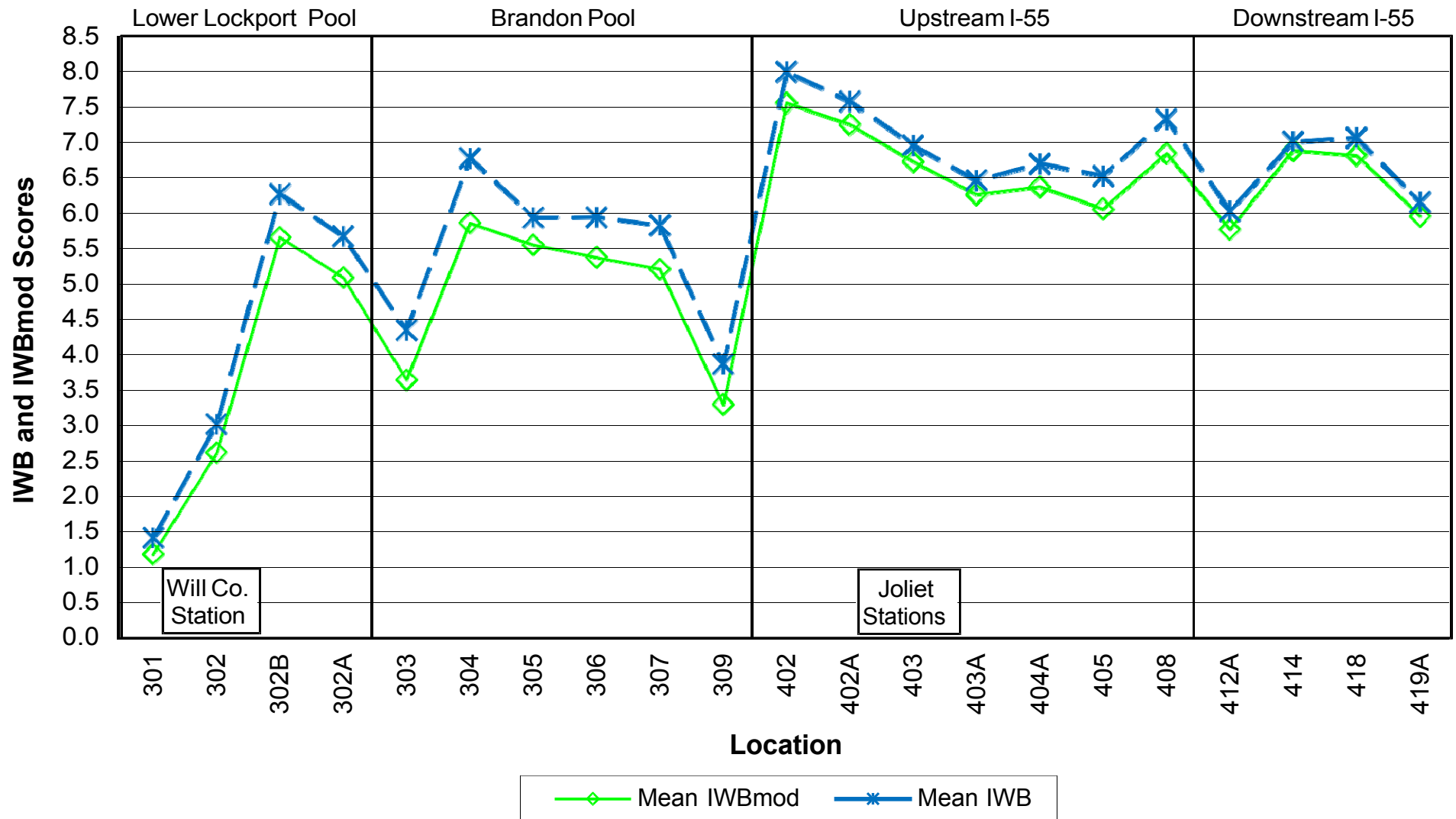


Figure 10. Longitudinal Comparisons of Cumulative and Mean Native Species Richness at Electrofishing Locations, 2013.

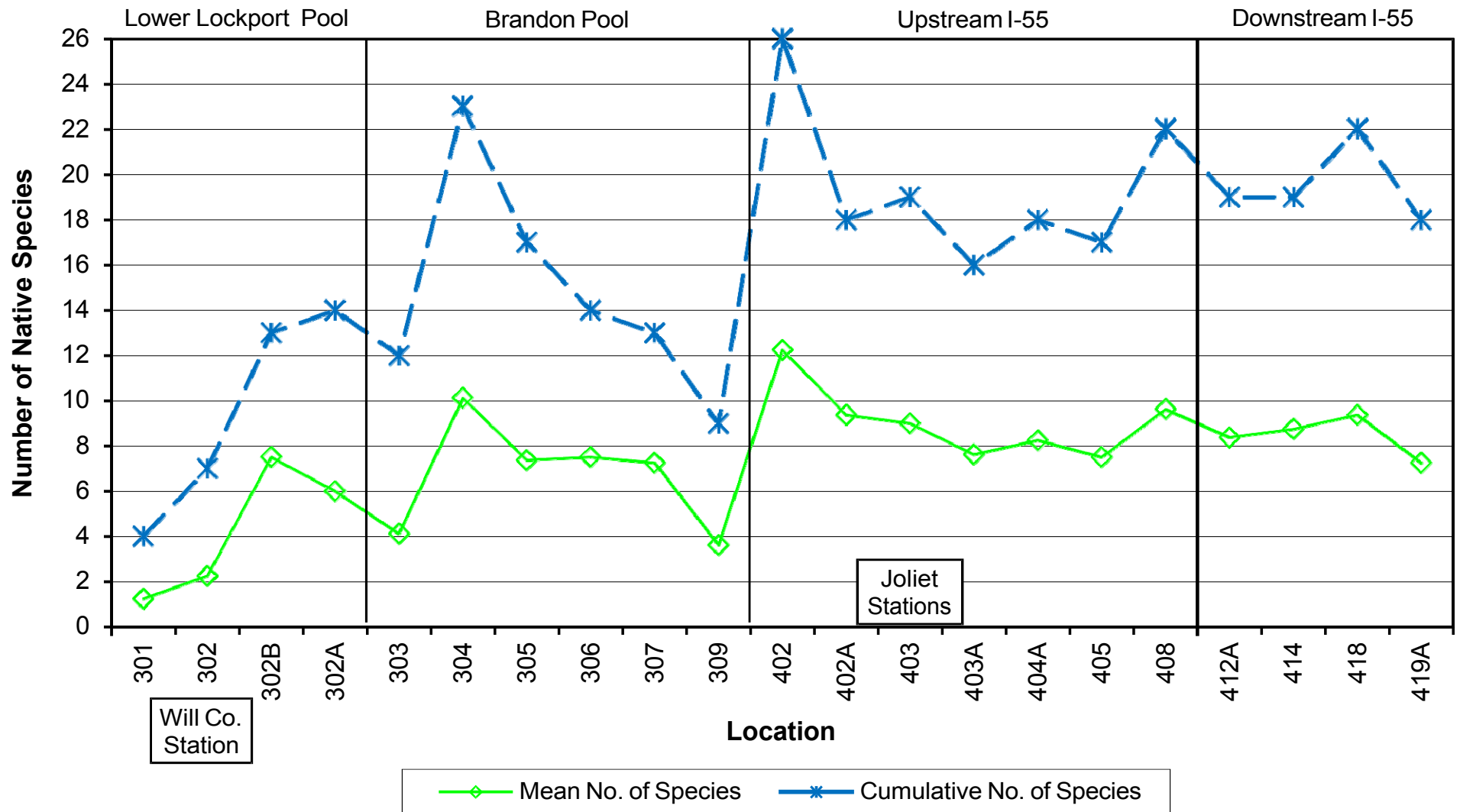


Figure 11. Longitudinal Comparisons of Seining Catch Rates, 2013.

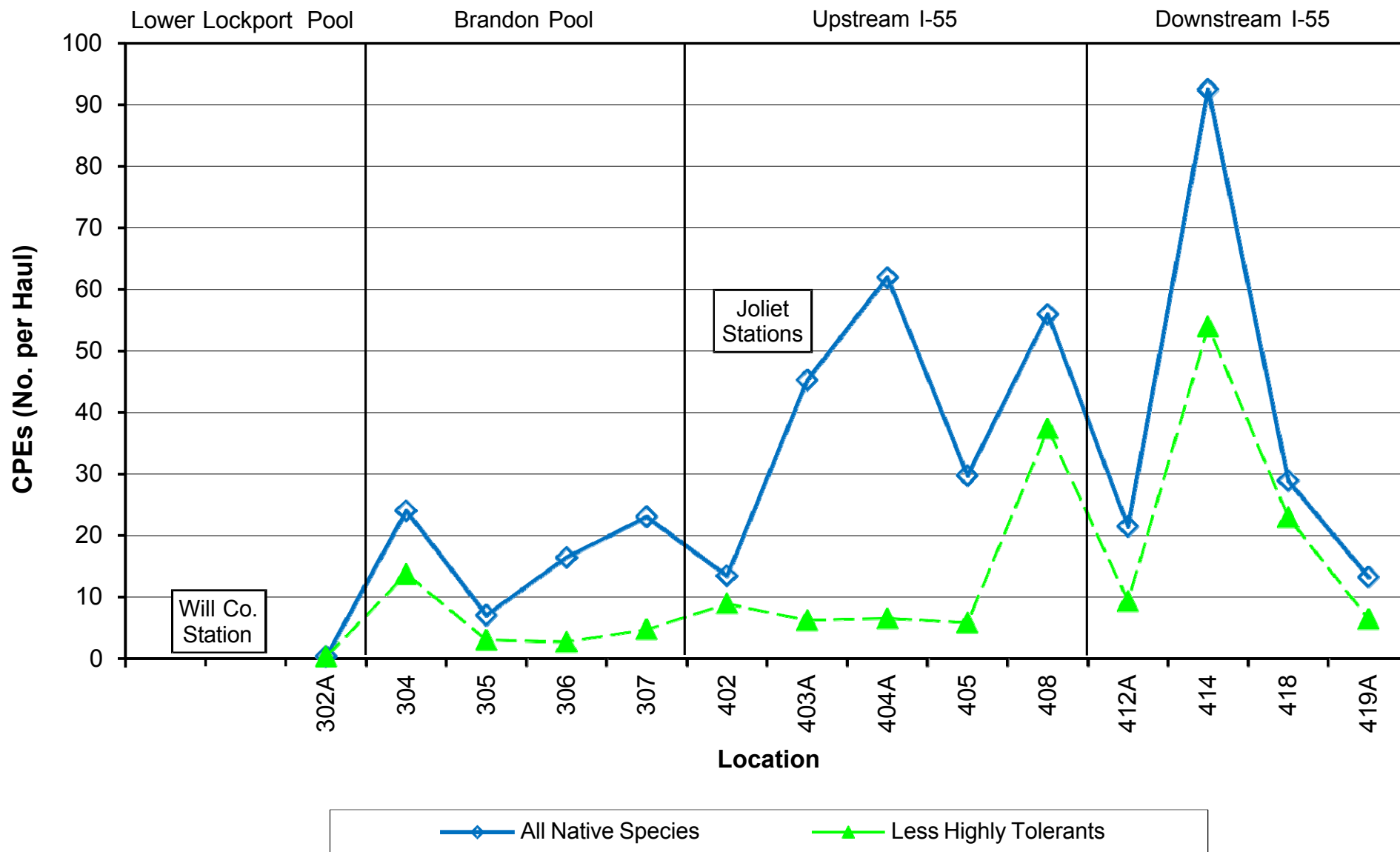


Figure 12. Longitudinal Comparisons of Cumulative and Mean Native Species Richness at Seining Locations, 2013.

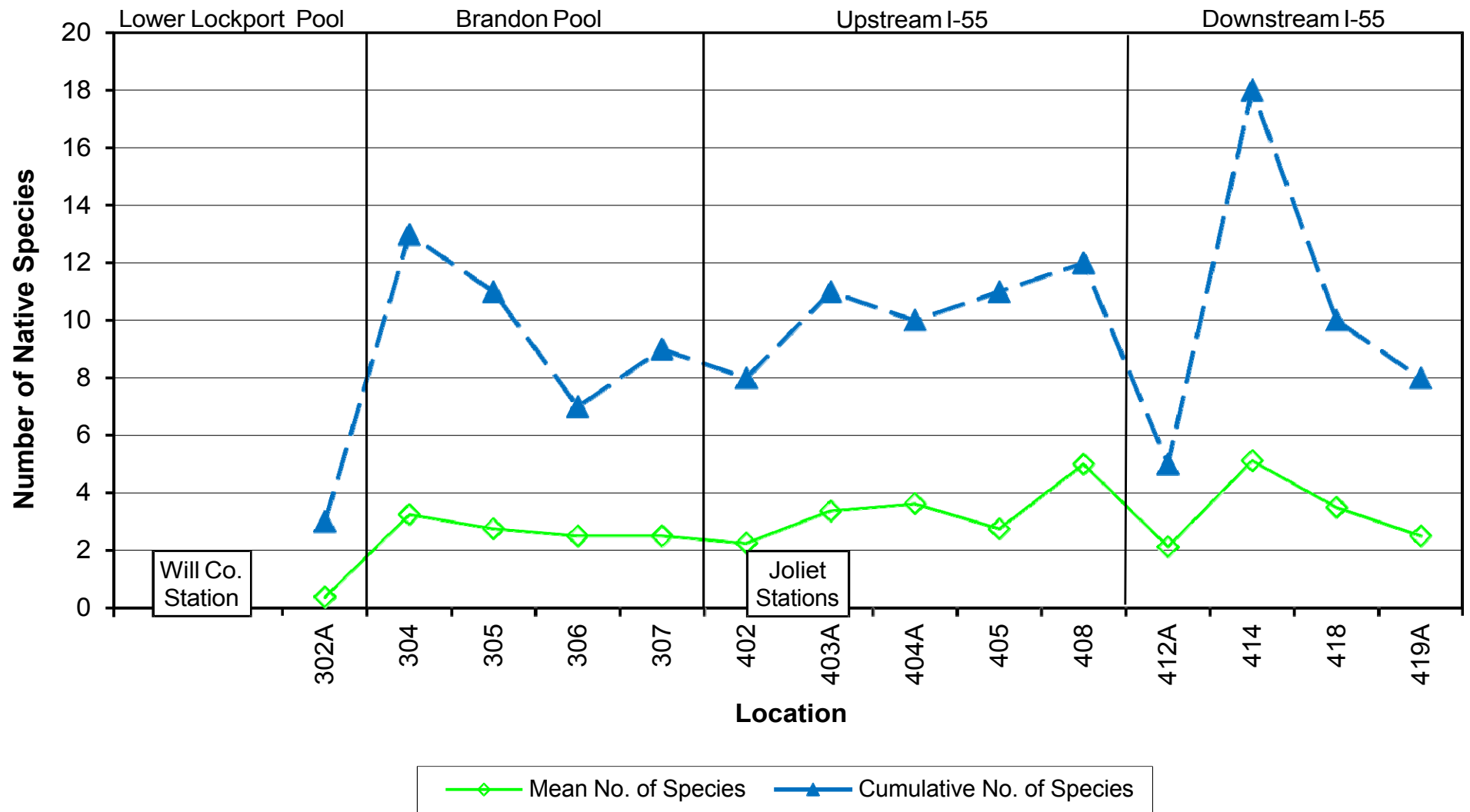


Figure 13. Comparisons of Mean Water Temperatures with Mean CPE, IWBmod, and Native Species Richness Values Collected from the Upstream I-55 Segment during the Period of 15 June through August, 1994, 1995, and 1997-2013.

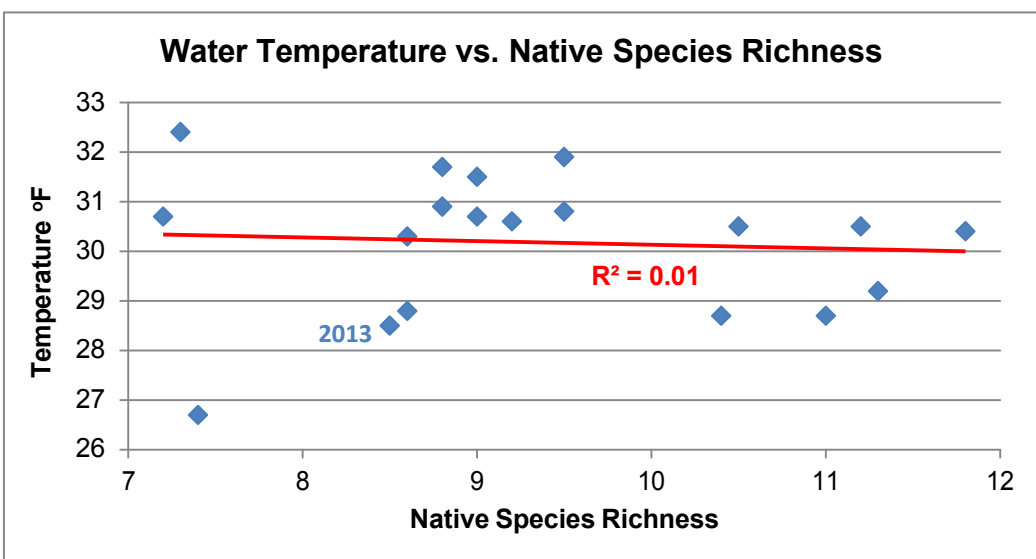
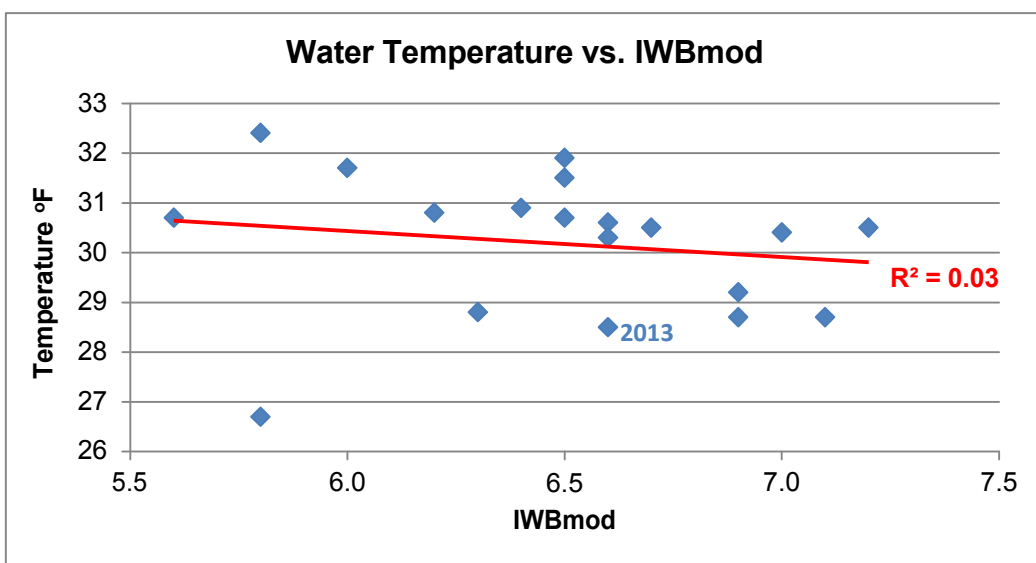
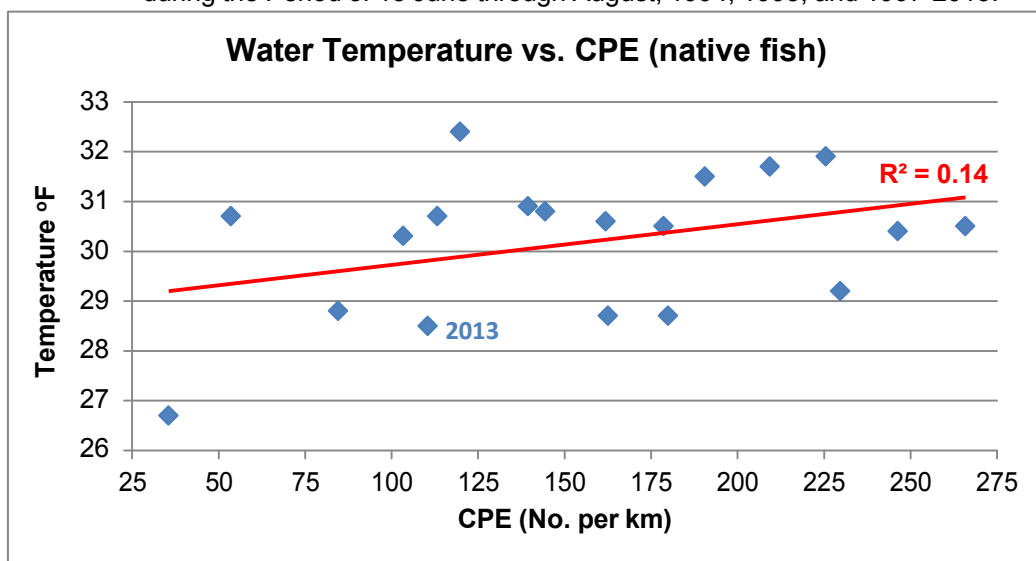


Figure 14. Comparisons of Mean Water Temperatures with Mean CPE, IWBmod, and Native Species Richness Values Collected from the Downstream I-55 Segment during the Period of 15 June through August, 1994, 1995, and 1997-2013.

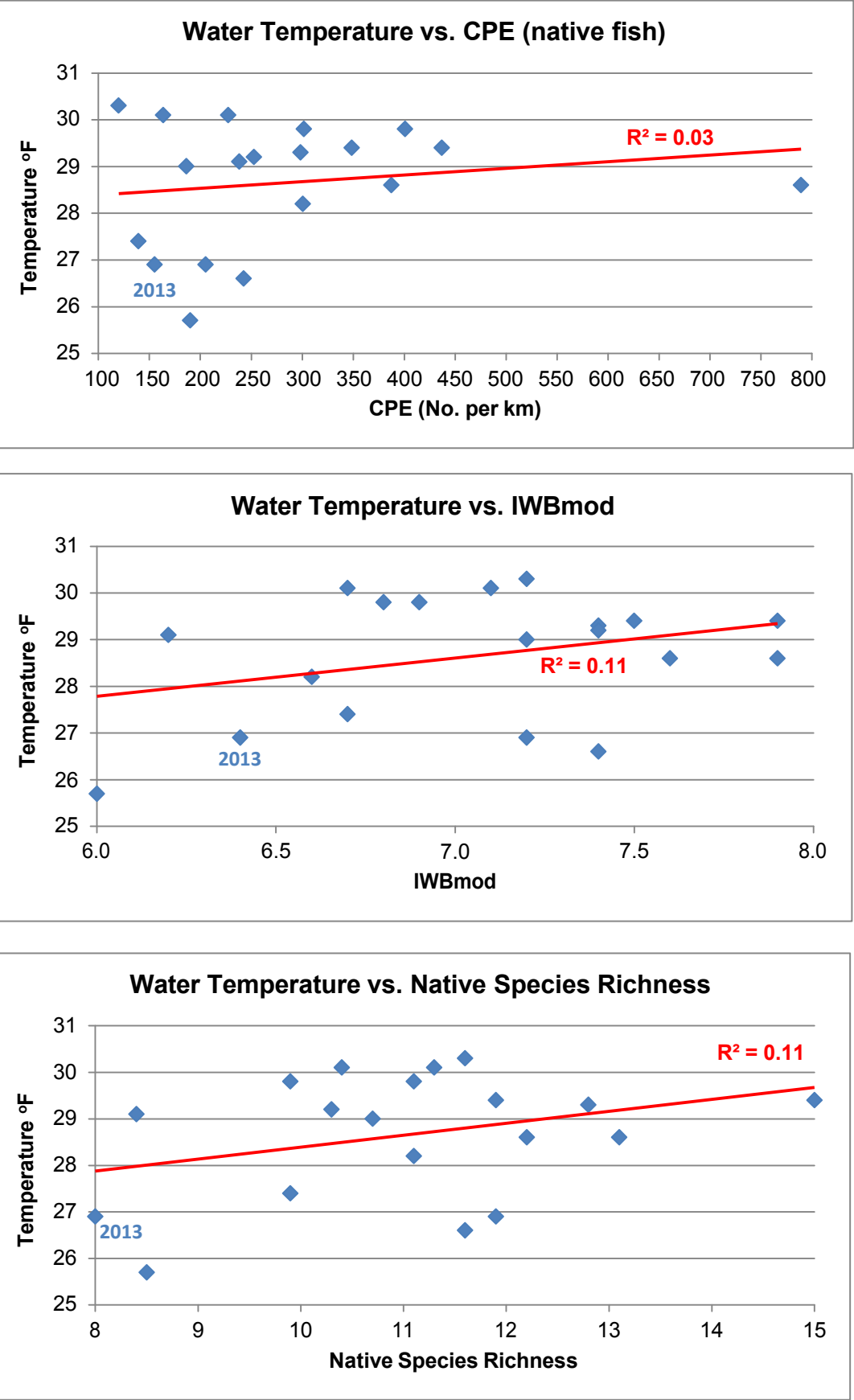


Table 1. Intercept (a) and Slope (b) Parameters for Standard Weight (Ws) Equations with Minimum Total Lengths (mm) Recommended for Application^(a).

Species	Intercept (a)	Slope (b)	Minimum Length	Reference or developer
Longnose Gar	-6.811	3.449	200	Bister et al. (2000)
Gizzard Shad	-5.376	3.170	180	Anderson and Gutreuter (1983)
Rainbow Trout (lentic)	-4.898	2.990	120	Simpkins and Hubert (unpublished)
Brook Trout	-5.085	3.043	130	Whelan and Taylor (1984)
Chinook Salmon	-4.661	2.901	200	Halseth et al. (1990)
Northern Pike	-5.437	3.096	100	Willis (unpublished)
Common Carp	-4.639	2.920	200	Bister et al. (2000)
Golden Shiner	-5.593	3.302	50	Liao et al. (1995)
Bigmouth Buffalo	-5.069	3.118	150	Bister et al. (2000)
Smallmouth Buffalo	-5.298	3.208	200	Bister et al. (2000)
River Carpsucker	-4.839	2.992	130	Bister et al. (2000)
White Sucker	-4.755	2.940	100	Bister et al. (2000)
Shorthead Redhorse	-4.841	2.962	100	Bister et al. (2000)
Black Bullhead	-4.974	3.085	130	Bister et al. (2000)
Yellow Bullhead	-5.374	3.232	60	Bister et al. (2000)
Brown Bullhead	-5.076	3.105	130	Bister et al. (2000)
Channel Catfish	-5.800	3.294	70	Brown et al. (1995)
Flathead Catfish	-5.542	3.230	130	Bister et al. (2000)
White Perch	-5.122	3.136	80	Bister et al. (2000)
White Bass	-5.066	3.081	115	Brown and Murphy (1991)
Yellow Bass	-5.142	3.133	70	Bister et al. (2000)
Striped Bass	-4.924	3.007	150	Brown and Murphy (1991)
Hybrid striper	-5.201	3.139	115	Brown and Murphy (1991)
Rock Bass	-4.827	3.074	80	Bister et al. (2000)
Green Sunfish	-4.915	3.101	60	Bister et al. (2000)
Pumpkinseed	-5.179	3.237	50	Liao et al. (1995)
Warmouth	-5.180	3.241	80	Bister et al. (2000)
Bluegill	-5.374	3.316	80	Hillman (1982)
Largemouth Bass	-5.316	3.191	150	Wege and Angerson (1978)
Smallmouth Bass	-5.329	3.200	150	Kolander et al. (1993)
Black Crappie	-5.618	3.345	100	Neumann and Murphy (1991)
White Crappie	-5.642	3.332	100	Neumann and Murphy (1991)
Yellow Perch	-5.386	3.230	100	Willis et al. (1991)
Sauger	-5.492	3.187	70	C.S. Guy (unpublished)
Walleye	-5.453	3.180	150	Murphy et al. (1990)
Freshwater drum	-5.419	3.204	100	Blackwell et al. (1995)

(a) Sources: Bister et al. 2000, Anderson and Neumann 1996, and Murphy et al. 1991.

TABLE 2. SUMMARY OF SURFACE OR MID-DEPTH PHYSICOCHEMICAL PARAMETERS MEASURED AT ELECTROFISHING LOCATIONS, 2013.

TRIP	TEMPERATURE (C)			DISSOLVED OXYGEN (ppm)			DISSOLVED OXYGEN Percent Saturation			SPECIFIC CONDUCTANCE (µS/cm)			SECCHI (cm)		
	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX
20-21 MAY	24.5	19.5	28.0	7.5	4.2	18.3	91	51	229	1112	808	1253	74	41	139
4-6 JUN	21.7	18.8	27.5	7.2	2.9	12.9	82	26	145	839	732	1031	69	40	92
1-3 JUL	23.8	21.4	27.4	6.6	2.9	10.1	80	37	139	799	761	864	97	50	125
15-17 JUL	30.0	25.4	34.3	7.8	4.7	14.9	103	59	205	892	790	1067	108	34	148
14-16 AUG	25.6	22.3	29.0	7.2	4.2	12.8	88	56	148	811	722	1138	105	39	202
26-28 AUG	29.8	26.6	34.8	7.7	3.2	15.6	101	42	198	875	786	1110	112	51	169
9-11 SEP	29.4	25.8	34.2	7.7	4.6	16.2	101	60	208	820	752	1082	119	29	192
23-25 SEP	23.3	20.7	29.7	7.0	3.6	16.5	82	42	185	772	696	940	118	29	175
<u>LOCATION</u>															
301	23.1	18.8	28.6	4.6	3.5	6.3	53	37	76	819	730	1109	128	92	171
302	27.1	22.8	30.5	4.3	2.9	5.8	54	37	74	828	732	1097	114	87	145
302A	25.5	21.3	28.5	5.7	3.7	7.4	68	44	92	801	697	1111	111	86	150
302B	24.7	19.8	28.1	4.3	2.9	5.2	51	26	63	814	730	1119	130	74	181
303	25.5	20.3	29.2	5.0	3.2	8.3	62	38	99	796	696	1124	121	73	142
304	25.3	21.0	31.1	13.8	8.5	18.3	167	102	229	1047	808	1253	128	56	202
305	25.5	20.3	29.0	5.4	3.6	6.7	66	42	88	805	702	1131	119	76	159
306	25.8	20.7	29.5	8.2	4.8	10.3	105	57	139	862	717	1175	112	62	163
307	25.5	19.7	28.8	6.8	3.9	9.1	84	46	112	840	723	1167	120	88	148
309	24.6	20.0	29.5	6.7	4.8	10.6	81	54	137	838	748	1116	102	51	141
402	24.7	21.0	28.8	9.8	7.5	11.4	118	95	133	889	727	1184	107	51	175
402A	26.0	21.6	33.7	8.2	6.5	9.3	100	86	109	860	733	1092	86	49	117
403	30.5	26.5	34.8	8.2	6.8	9.5	110	95	120	876	760	1148	81	53	105
403A	29.9	24.1	34.3	8.0	6.8	9.5	106	95	117	872	759	1132	91	46	112
404A	27.6	22.8	32.5	9.2	7.8	11.9	117	92	148	855	712	1136	90	50	128
405	26.1	21.0	31.0	7.7	6.1	10.6	95	69	141	932	802	1113	81	41	114

TABLE 2 (cont.)

LOCATION	TEMPERATURE (C)			DISSOLVED OXYGEN (ppm)			DISSOLVED OXYGEN Percent Saturation			SPECIFIC CONDUCTANCE (µS/cm)			SECCHI (cm)		
	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX
408	26.6	21.9	32.5	8.6	5.8	14.9	109	68	205	867	751	1132	98	50	164
412A	25.9	22.2	30.8	7.5	5.8	10.2	93	66	142	848	759	940	96	51	128
414	24.9	21.3	30.8	7.4	4.2	12.1	90	51	151	940	742	1063	51	29	95
418	24.9	20.6	31.5	7.6	4.2	12.9	92	56	145	902	761	1106	50	40	67
419A	26.7	22.4	32.9	7.5	6.5	8.7	93	77	109	872	744	1048	91	61	121
<u>SEGMENT</u>															
LOWER LOCKPORT POOL	25.1	18.8	30.5	4.7	2.9	7.4	56	26	92	816	697	1119	120	74	181
BRANDON POOL	25.3	19.7	31.1	7.6	3.2	18.3	94	38	229	865	696	1253	117	51	202
UPSTREAM I-55	27.3	21.0	34.8	8.5	5.8	14.9	108	68	205	879	712	1184	90	41	175
DOWNSTREAM I-55	25.6	20.6	32.9	7.5	4.2	12.9	92	51	151	890	742	1106	72	29	128

TABLE 3. LIST OF COMMON AND SCIENTIFIC NAMES FOR FISH TAXA COLLECTED FROM THE UPPER ILLINOIS WATERWAY, 2013.

COMMON FAMILY NAME	COMMON NAME	SCIENTIFIC NAME
GARS	SPOTTED GAR LONGNOSE GAR	<i>Lepisosteus oculatus</i> <i>Lepisosteus osseus</i>
HERRINGS	<i>Dorosoma</i> sp. GIZZARD SHAD THREADFIN SHAD	<i>Dorosoma</i> sp. <i>Dorosoma cepedianum</i> <i>Dorosoma petenense</i>
CARPS AND MINNOWS	CENTRAL STONEROLLER GOLDFISH SPOTFIN SHINER COMMON CARP CARP X GOLDFISH HYBRID PALLID SHINER STRIPED SHINER HORNHEAD CHUB GOLDEN SHINER EMERALD SHINER GHOST SHINER SPOTTAIL SHINER ROSYFACE SHINER SAND SHINER MIMIC SHINER BLUNTNOSE MINNOW FATHEAD MINNOW BULLHEAD MINNOW	<i>Campostoma anomalum</i> <i>Carassius auratus</i> <i>Cyprinella spiloptera</i> <i>Cyprinus carpio</i> <i>Cyprinus carpio</i> X <i>Carassius auratus</i> <i>Hybopsis amnis</i> <i>Luxilus chrysocephalus</i> <i>Nocomis biguttatus</i> <i>Notemigonus crysoleucas</i> <i>Notropis atherinoides</i> <i>Notropis buchanani</i> <i>Notropis hudsonius</i> <i>Notropis rubellus</i> <i>Notropis stramineus</i> <i>Notropis volucellus</i> <i>Pimephales notatus</i> <i>Pimephales promelas</i> <i>Pimephales vigilax</i>
SUCKERS	RIVER CARPSUCKER QUILLBACK WHITE SUCKER SMALLMOUTH BUFFALO BLACK BUFFALO <i>Moxostoma</i> sp. SILVER REDHORSE GOLDEN REDHORSE SHORTHEAD REDHORSE	<i>Carpiodes carpio</i> <i>Carpiodes cyprinus</i> <i>Catostomus commersonii</i> <i>Ictiobus bubalus</i> <i>Ictiobus niger</i> <i>Moxostoma</i> sp. <i>Moxostoma anisurum</i> <i>Moxostoma erythrurum</i> <i>Moxostoma macrolepidotum</i>
LOACHES	ORIENTAL WEATHERFISH	<i>Misgurnus anguillicaudatus</i>
NORTH AMERICAN CATFISHES	YELLOW BULLHEAD CHANNEL CATFISH TADPOLE MADTOM FLATHEAD CATFISH	<i>Ameiurus natalis</i> <i>Ictalurus punctatus</i> <i>Noturus gyrinus</i> <i>Pylodictis olivaris</i>
PIKES AND MUDMINNOWS	GRASS PICKEREL NORTHERN PIKE	<i>Esox americanus vermiculatus</i> <i>Esox lucius</i>
NEW WORLD SILVERSIDES	BROOK SILVERSIDE	<i>Labidesthes sicculus</i>
TOPMINNOWS	BANDED KILLFISH BLACKSTRIPE TOPMINNOW	<i>Fundulus diaphanous menona</i> <i>Fundulus notatus</i>
LIVEBEARERS	WESTERN MOSQUITOFISH	<i>Gambusia affinis</i>
TEMPERATE BASSES	WHITE BASS YELLOW BASS	<i>Morone chrysops</i> <i>Morone mississippiensis</i>
SUNFISHES	ROCK BASS <i>Lepomis</i> sp. GREEN SUNFISH PUMPKINSEED WARMOUTH ORANGESPOTTED SUNFISH BLUEGILL REDEAR SUNFISH NORTHERN SUNFISH <i>Lepomis</i> HYBRID SMALLMOUTH BASS LARGEMOUTH BASS BLACK CRAPPIE	<i>Ambloplites rupestris</i> <i>Lepomis</i> sp. <i>Lepomis cyanellus</i> <i>Lepomis gibbosus</i> <i>Lepomis gulosus</i> <i>Lepomis humilis</i> <i>Lepomis macrochirus</i> <i>Lepomis microlophus</i> <i>Lepomis peltastes</i> <i>Lepomis</i> HYBRID <i>Micropterus dolomieu</i> <i>Micropterus salmoides</i> <i>Pomoxis nigromaculatus</i>
PERCHES AND DARTERS	JOHNNY DARTER ORANGETHROAT DARTER YELLOW PERCH LOGPERCH BLACKSIDE DARTER	<i>Etheostoma nigrum</i> <i>Etheostoma spectabile</i> <i>Perca flavescens</i> <i>Percina caprodes</i> <i>Percina maculata</i>
DRUMS AND CROAKERS	FRESHWATER DRUM	<i>Aplodinotus grunniens</i>
GOBIES	ROUND GOBY	<i>Neogobius melanostomus</i>

TABLE 4. SPECIES COMPOSITION, NUMBER, BIOMASS, AND RELATIVE ABUNDANCE OF FISH COLLECTED FROM THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	NUMBER CAUGHT		WEIGHT CAUGHT	
	#	%	KG	%
SPOTTED GAR	1	0.01	0.925	0.08
LONGNOSE GAR	30	0.21	23.552	1.98
GIZZARD SHAD	1,849	12.93	130.939	11.03
THREADFIN SHAD	139	0.97	0.481	0.04
Dorosoma sp.	1	0.01	0.001	0.00
GRASS PICKEREL	1	0.01	0.027	0.00
NORTHERN PIKE	1	0.01	0.043	0.00
CENTRAL STONEROLLER	3	0.02	0.004	0.00
GOLDFISH	18	0.13	3.243	0.27
COMMON CARP	165	1.15	308.778	26.02
CARP X GOLDFISH HYBRID	2	0.01	0.605	0.05
HORNHEAD CHUB	1	0.01	0.001	0.00
GOLDEN SHINER	13	0.09	0.203	0.02
PALLID SHINER	1	0.01	0.001	0.00
EMERALD SHINER	70	0.49	0.239	0.02
GHOST SHINER	1	0.01	0.001	0.00
STRIPED SHINER	19	0.13	0.019	0.00
SPOTTAIL SHINER	13	0.09	0.040	0.00
ROSYFACE SHINER	9	0.06	0.010	0.00
SPOTFIN SHINER	136	0.95	0.186	0.02
SAND SHINER	14	0.10	0.015	0.00
MIMIC SHINER	3	0.02	0.004	0.00
BLUNTNOST MINNOW	3,129	21.88	3.717	0.31
FATHEAD MINNOW	5	0.03	0.002	0.00
BULLHEAD MINNOW	22	0.15	0.027	0.00
RIVER CARPSUCKER	14	0.10	15.335	1.29
QUILLBACK	4	0.03	2.335	0.20
WHITE SUCKER	15	0.10	1.939	0.16
SMALLMOUTH BUFFALO	59	0.41	101.304	8.54
BLACK BUFFALO	2	0.01	4.358	0.37
SILVER REDHORSE	1	0.01	0.810	0.07
GOLDEN REDHORSE	6	0.04	2.650	0.22
SHORthead REDHORSE	9	0.06	2.735	0.23
Moxostoma sp.	1	0.01	0.001	0.00
ORIENTAL WEATHERFISH	29	0.20	0.234	0.02
YELLOW BULLHEAD	80	0.56	10.057	0.85
CHANNEL CATFISH	182	1.27	229.857	19.37
TADPOLE MADTOM	13	0.09	0.031	0.00
FLATHEAD CATFISH	3	0.02	9.090	0.77
BANDED KILLIFISH	25	0.17	0.044	0.00
BLACKSTRIPE TOPMINNOW	165	1.15	0.136	0.01
WESTERN MOSQUITOFISH	69	0.48	0.042	0.00
BROOK SILVERSIDE	29	0.20	0.011	0.00
WHITE BASS	6	0.04	1.990	0.17
YELLOW BASS	5	0.03	0.150	0.01
ROCK BASS	22	0.15	1.278	0.11
GREEN SUNFISH	1,029	7.19	17.944	1.51
PUMPKINSEED	481	3.36	9.716	0.82
WARMOUTH	1	0.01	0.012	0.00
ORANGESPOTTED SUNFISH	142	0.99	0.834	0.07
BLUEGILL	4,278	29.91	79.784	6.72
REDEAR SUNFISH	1	0.01	0.006	0.00
NORTHERN SUNFISH	83	0.58	0.813	0.07
Lepomis HYBRID	236	1.65	8.144	0.69
Lepomis sp.	264	1.85	0.088	0.01
SMALLMOUTH BASS	72	0.50	5.545	0.47
LARGEMOUTH BASS	854	5.97	123.648	10.42
BLACK CRAPPIE	3	0.02	0.208	0.02
JOHNNY DARTER	6	0.04	0.005	0.00
ORANGETHROAT DARTER	3	0.02	0.001	0.00
YELLOW PERCH	3	0.02	0.037	0.00
LOGPERCH	14	0.10	0.064	0.01
BLACKSIDE DARTER	15	0.10	0.029	0.00
FRESHWATER DRUM	79	0.55	81.455	6.86
ROUND GOBY	353	2.47	1.092	0.09
TOTAL FISH	14,302	100.00	1,186.875	100.00
TOTAL SPECIES	60			

NOTE: 0.00 DENOTES VALUES LESS THAN 0.005.

TABLE 5. SUMMARY OF THE NUMBER OF FISH COLLECTED WITHIN EACH SEGMENT OF THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		SEGMENTS COMBINED	
	#	%	#	%	#	%	#	%	#	%
SPOTTED GAR	--	--	--	--	--	--	1	0.02	1	0.01
LONGNOSE GAR	2	0.17	--	--	26	0.45	2	0.04	30	0.21
GIZZARD SHAD	212	18.45	603	22.58	733	12.71	301	6.38	1,849	12.93
THREADFIN SHAD	26	2.26	10	0.37	8	0.14	95	2.01	139	0.97
Dorosoma sp.	--	--	--	--	1	0.02	--	--	1	0.01
GRASS PICKEREL	--	--	--	--	1	0.02	--	--	1	0.01
NORTHERN PIKE	--	--	1	0.04	--	--	--	--	1	0.01
CENTRAL STONEROLLER	--	--	--	--	1	0.02	2	0.04	3	0.02
GOLDFISH	--	--	11	0.41	7	0.12	--	--	18	0.13
COMMON CARP	17	1.48	42	1.57	83	1.44	23	0.49	165	1.15
CARP X GOLDFISH HYBRID	--	--	1	0.04	1	0.02	--	--	2	0.01
HORNHEAD CHUB	--	--	--	--	1	0.02	--	--	1	0.01
GOLDEN SHINER	4	0.35	3	0.11	2	0.03	4	0.08	13	0.09
PALLID SHINER	--	--	--	--	--	--	1	0.02	1	0.01
EMERALD SHINER	11	0.96	26	0.97	30	0.52	3	0.06	70	0.49
GHOST SHINER	--	--	--	--	1	0.02	--	--	1	0.01
STRIPED SHINER	--	--	--	--	14	0.24	5	0.11	19	0.13
SPOTTAIL SHINER	--	--	--	--	5	0.09	8	0.17	13	0.09
ROSYFACE SHINER	--	--	--	--	9	0.16	--	--	9	0.06
SPOTFIN SHINER	4	0.35	9	0.34	106	1.84	17	0.36	136	0.95
SAND SHINER	--	--	--	--	13	0.23	1	0.02	14	0.10
MIMIC SHINER	--	--	--	--	3	0.05	--	--	3	0.02
BLUNTNOST MINNOW	141	12.27	627	23.48	1,668	28.93	693	14.69	3,129	21.88
FATHEAD MINNOW	--	--	--	--	5	0.09	--	--	5	0.03
BULLHEAD MINNOW	1	0.09	--	--	1	0.02	20	0.42	22	0.15
RIVER CARPSUCKER	--	--	--	--	9	0.16	5	0.11	14	0.10
QUILLBACK	--	--	--	--	3	0.05	1	0.02	4	0.03
WHITE SUCKER	--	--	13	0.49	2	0.03	--	--	15	0.10
SMALLMOUTH BUFFALO	--	--	--	--	43	0.75	16	0.34	59	0.41
BLACK BUFFALO	--	--	--	--	2	0.03	--	--	2	0.01
SILVER REDHORSE	--	--	--	--	1	0.02	--	--	1	0.01
GOLDEN REDHORSE	--	--	--	--	1	0.02	5	0.11	6	0.04
SHORTHEAD REDHORSE	--	--	--	--	7	0.12	2	0.04	9	0.06
Moxostoma sp.	--	--	--	--	1	0.02	--	--	1	0.01
ORIENTAL WEATHERFISH	19	1.65	10	0.37	--	--	--	--	29	0.20
YELLOW BULLHEAD	5	0.44	47	1.76	19	0.33	9	0.19	80	0.56
CHANNEL CATFISH	13	1.13	38	1.42	114	1.98	17	0.36	182	1.27
TADPOLE MADTOM	--	--	11	0.41	1	0.02	1	0.02	13	0.09
FLATHEAD CATFISH	--	--	--	--	2	0.03	1	0.02	3	0.02
BANDED KILLIFISH	3	0.26	16	0.60	5	0.09	1	0.02	25	0.17
BLACKSTRIPE TOPMINNOW	1	0.09	74	2.77	70	1.21	20	0.42	165	1.15
WESTERN MOSQUITOFISH	--	--	33	1.24	27	0.47	9	0.19	69	0.48
BROOK SILVERSIDE	--	--	--	--	4	0.07	25	0.53	29	0.20
WHITE BASS	--	--	1	0.04	5	0.09	--	--	6	0.04
YELLOW BASS	--	--	1	0.04	--	--	4	0.08	5	0.03
ROCK BASS	--	--	7	0.26	11	0.19	4	0.08	22	0.15
GREEN SUNFISH	183	15.93	150	5.62	430	7.46	266	5.64	1,029	7.19
PUMPKINSEED	211	18.36	130	4.87	95	1.65	45	0.95	481	3.36
WARMOUTH	1	0.09	--	--	--	--	--	--	1	0.01
ORANGESPOTTED SUNFISH	1	0.09	36	1.35	12	0.21	93	1.97	142	0.99
BLUEGILL	226	19.67	255	9.55	1,376	23.87	2,421	51.31	4,278	29.91
REDEAR SUNFISH	--	--	--	--	1	0.02	--	--	1	0.01
NORTHERN SUNFISH	2	0.17	2	0.07	46	0.80	33	0.70	83	0.58
Lepomis HYBRID	2	0.17	10	0.37	193	3.35	31	0.66	236	1.65
Lepomis sp.	1	0.09	8	0.30	94	1.63	161	3.41	264	1.85
SMALLMOUTH BASS	--	--	49	1.84	18	0.31	5	0.11	72	0.50
LARGEMOUTH BASS	53	4.61	104	3.90	353	6.12	344	7.29	854	5.97
BLACK CRAPPIE	--	--	1	0.04	2	0.03	--	--	3	0.02
JOHNNY DARTER	--	--	4	0.15	2	0.03	--	--	6	0.04
ORANGETHROAT DARTER	--	--	--	--	3	0.05	--	--	3	0.02
YELLOW PERCH	--	--	1	0.04	2	0.03	--	--	3	0.02
LOGPERCH	--	--	3	0.11	1	0.02	10	0.21	14	0.10
BLACKSIDE DARTER	--	--	3	0.11	12	0.21	--	--	15	0.10
FRESHWATER DRUM	3	0.26	17	0.64	47	0.82	12	0.25	79	0.55
ROUND GOBY	7	0.61	313	11.72	32	0.56	1	0.02	353	2.47
TOTAL FISH	1,149	100.00	2,670	100.00	5,765	100.00	4,718	100.00	14,302	100.00
GEAR EFFORTS	40		80		96		64		280	
CATCH PER GEAR EFFORT	29		33		60		74		51	
TOTAL SPECIES	23		34		54		40		60	

NOTE: 0.00 DENOTES VALUES LESS THAN 0.005.

TABLE 6. NUMBER, CPE (No./km), AND RELATIVE ABUNDANCE OF NATIVE FISH COLLECTED ELECTROFISHING WITHIN FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOWER LOCKPORT POOL			BRANDON POOL			UPSTREAM I-55			DOWNSTREAM I-55		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	1	0.1	0.03
LONGNOSE GAR	2	0.1	0.19	--	--	--	25	0.9	0.63	1	0.1	0.03
GIZZARD SHAD	212	13.3	19.68	603	25.1	35.83	732	26.1	18.51	300	18.8	8.98
GRASS PICKEREL	--	--	--	--	--	--	1	0.0	0.03	--	--	--
NORTHERN PIKE	--	--	--	1	0.0	0.06	--	--	--	--	--	--
GOLDEN SHINER	4	0.3	0.37	3	0.1	0.18	2	0.1	0.05	3	0.2	0.09
PALLID SHINER	--	--	--	--	--	--	--	--	--	1	0.1	0.03
EMERALD SHINER	11	0.7	1.02	23	1.0	1.37	30	1.1	0.76	2	0.1	0.06
GHOST SHINER	--	--	--	--	--	--	1	0.0	0.03	--	--	--
STRIPED SHINER	--	--	--	--	--	--	1	0.0	0.03	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	5	0.2	0.13	7	0.4	0.21
ROSYFACE SHINER	--	--	--	--	--	--	1	0.0	0.03	--	--	--
SPOTFIN SHINER	4	0.3	0.37	5	0.2	0.30	32	1.1	0.81	10	0.6	0.30
MIMIC SHINER	--	--	--	--	--	--	3	0.1	0.08	--	--	--
BLUNTNOST MINNOW	141	8.8	13.09	265	11.0	15.75	543	19.4	13.73	195	12.2	5.84
BULLHEAD MINNOW	--	--	--	--	--	--	1	0.0	0.03	12	0.8	0.36
RIVER CARPSUCKER	--	--	--	--	--	--	9	0.3	0.23	5	0.3	0.15
QUILLBACK	--	--	--	--	--	--	3	0.1	0.08	1	0.1	0.03
WHITE SUCKER	--	--	--	9	0.4	0.53	1	0.0	0.03	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	43	1.5	1.09	16	1.0	0.48
BLACK BUFFALO	--	--	--	--	--	--	2	0.1	0.05	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	1	0.0	0.03	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	1	0.0	0.03	5	0.3	0.15
SHORTHEAD REDHORSE	--	--	--	--	--	--	7	0.3	0.18	2	0.1	0.06
YELLOW BULLHEAD	5	0.3	0.46	45	1.9	2.67	19	0.7	0.48	9	0.6	0.27
CHANNEL CATFISH	13	0.8	1.21	38	1.6	2.26	114	4.1	2.88	17	1.1	0.51
TADPOLE MADTOM	--	--	--	4	0.2	0.24	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	2	0.1	0.05	1	0.1	0.03
BANDED KILLIFISH	3	0.2	0.28	1	0.0	0.06	--	--	--	--	--	--
BLACKSTRIPED TOPMINNOW	1	0.1	0.09	3	0.1	0.18	8	0.3	0.20	2	0.1	0.06
BROOK SILVERSIDE	--	--	--	--	--	--	4	0.1	0.10	2	0.1	0.06
WHITE BASS	--	--	--	1	0.0	0.06	5	0.2	0.13	--	--	--
YELLOW BASS	--	--	--	1	0.0	0.06	--	--	--	4	0.3	0.12
ROCK BASS	--	--	--	7	0.3	0.42	9	0.3	0.23	4	0.3	0.12
GREEN SUNFISH	183	11.4	16.99	146	6.1	8.67	430	15.4	10.88	259	16.2	7.75
PUMPKINSEED	210	13.1	19.50	96	4.0	5.70	82	2.9	2.07	29	1.8	0.87
WARMOUTH	1	0.1	0.09	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	1	0.1	0.09	35	1.5	2.08	7	0.3	0.18	60	3.8	1.80
BLUEGILL	225	14.1	20.89	229	9.5	13.61	1,200	42.9	30.35	1,989	124.3	59.53
NORTHERN SUNFISH	2	0.1	0.19	2	0.1	0.12	42	1.5	1.06	22	1.4	0.66
Lepomis HYBRID	2	0.1	0.19	10	0.4	0.59	191	6.8	4.83	30	1.9	0.90
Lepomis sp.	1	0.1	0.09	2	0.1	0.12	6	0.2	0.15	37	2.3	1.11
SMALLMOUTH BASS	--	--	--	48	2.0	2.85	17	0.6	0.43	5	0.3	0.15
LARGEMOUTH BASS	53	3.3	4.92	82	3.4	4.87	317	11.3	8.02	288	18.0	8.62
BLACK CRAPPIE	--	--	--	--	--	--	2	0.1	0.05	--	--	--
JOHNNY DARTER	--	--	--	1	0.0	0.06	1	0.0	0.03	--	--	--
YELLOW PERCH	--	--	--	--	--	--	2	0.1	0.05	--	--	--
LOGPERCH	--	--	--	3	0.1	0.18	1	0.0	0.03	10	0.6	0.30
BLACKSIDE DARTER	--	--	--	3	0.1	0.18	4	0.1	0.10	--	--	--
FRESHWATER DRUM	3	0.2	0.28	17	0.7	1.01	47	1.7	1.19	12	0.8	0.36
TOTAL FISH	1,077	67.3	100.00	1,683	70.1	100.00	3,954	141.2	100.00	3,341	208.8	100.00
TOTAL SPECIES	18			26			41			31		

NOTE: 0.0 DENOTES VALUES LESS THAN 0.05.

Table 7. Segment vs. Segment Comparisons of Mean Electrofishing Catch Parameters, 2013.

Parameter ^(a)	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55	Significant Difference ^(b)	F Value	P Value
CPEs-All Native Species	67.3 C	70.1 B	141.2 A	208.8 A ^(c)	Yes	18.92	<0.01
CPEs-Excluding Gizzard shad	54.1 C	45.0 B	115.1 A	190.1 A	Yes	22.77	<0.01
CPEs-Excluding Gizzard shad & Highly Tolerants	33.3 D	25.5 C	79.5 B	160.9 A	Yes	33.22	<0.01
IWBmod	3.64 C	4.82 B	6.72 A	6.35 A	Yes	28.05	<0.01
IWB	4.09 C	5.45 B	7.07 A	6.56 A	Yes	28.44	<0.01
Native Species Richness	4 C	7 B	9 A	8 A	Yes	24.25	<0.01

(a) All data log transformed for statistical analyses because they are not normally distributed.

(b) Results of one-factor parametric Analysis of Variance tests (alpha=0.05).

(c) Results of Duncan's Multiple Range Test; values with the same letters are not significantly different (alpha=0.05).

TABLE 8. NUMBER, CPE (No./Haul), AND RELATIVE ABUNDANCE OF NATIVE FISH COLLECTED SEINING WITHIN FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOWER LOCKPORT POOL			BRANDON POOL			UPSTREAM I-55			DOWNSTREAM I-55		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	1	0.0	0.06	1	0.0	0.08
GIZZARD SHAD	--	--	--	--	--	--	1	0.0	0.06	1	0.0	0.08
Dorosoma sp.	--	--	--	--	--	--	1	0.0	0.06	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	1	0.0	0.06	2	0.1	0.16
HORNHEAD CHUB	--	--	--	--	--	--	1	0.0	0.06	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	1	0.0	0.08
EMERALD SHINER	--	--	--	3	0.1	0.53	--	--	--	1	0.0	0.08
STRIPED SHINER	--	--	--	--	--	--	13	0.3	0.79	5	0.2	0.40
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	1	0.0	0.08
ROSYFACE SHINER	--	--	--	--	--	--	8	0.2	0.48	--	--	--
SPOTFIN SHINER	--	--	--	4	0.1	0.71	74	1.9	4.48	7	0.2	0.56
SAND SHINER	--	--	--	--	--	--	13	0.3	0.79	1	0.0	0.08
BLUNTNOST MINNOW	--	--	--	362	11.3	63.84	1,125	28.1	68.10	498	15.6	39.87
FATHEAD MINNOW	--	--	--	--	--	--	5	0.1	0.30	--	--	--
BULLHEAD MINNOW	1	0.1	33.33	--	--	--	--	--	--	8	0.3	0.64
WHITE SUCKER	--	--	--	4	0.1	0.71	1	0.0	0.06	--	--	--
Moxostoma sp.	--	--	--	--	--	--	1	0.0	0.06	--	--	--
YELLOW BULLHEAD	--	--	--	2	0.1	0.35	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	7	0.2	1.23	1	0.0	0.06	1	0.0	0.08
BANDED KILLIFISH	--	--	--	15	0.5	2.65	5	0.1	0.30	1	0.0	0.08
BLACKSTRIPE TOPMINNOW	--	--	--	71	2.2	12.52	62	1.6	3.75	18	0.6	1.44
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	23	0.7	1.84
ROCK BASS	--	--	--	--	--	--	2	0.1	0.12	--	--	--
GREEN SUNFISH	--	--	--	4	0.1	0.71	--	--	--	7	0.2	0.56
PUMPKINSEED	1	0.1	33.33	34	1.1	6.00	13	0.3	0.79	16	0.5	1.28
ORANGESPOTTED SUNFISH	--	--	--	1	0.0	0.18	5	0.1	0.30	33	1.0	2.64
BLUEGILL	1	0.1	33.33	26	0.8	4.59	176	4.4	10.65	432	13.5	34.59
NORTHERN SUNFISH	--	--	--	--	--	--	4	0.1	0.24	11	0.3	0.88
Lepomis HYBRID	--	--	--	--	--	--	2	0.1	0.12	1	0.0	0.08
Lepomis sp.	--	--	--	6	0.2	1.06	88	2.2	5.33	124	3.9	9.93
SMALLMOUTH BASS	--	--	--	1	0.0	0.18	1	0.0	0.06	--	--	--
LARGEMOUTH BASS	--	--	--	22	0.7	3.88	36	0.9	2.18	56	1.8	4.48
BLACK CRAPPIE	--	--	--	1	0.0	0.18	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	3	0.1	0.53	1	0.0	0.06	--	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--	3	0.1	0.18	--	--	--
YELLOW PERCH	--	--	--	1	0.0	0.18	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	8	0.2	0.48	--	--	--
TOTAL FISH	3	0.4	100.00	567	17.7	100.00	1,652	41.3	100.00	1,249	39.0	100.00
CPEs W/O HIGHLY TOLERANTS		0.4			6.1			13.0			23.2	
TOTAL SPECIES	3			17			25			21		
MEAN NO. SPECIES	0.4			2.8			3.4			3.3		

NOTE: 0.0 DENOTES VALUES LESS THAN 0.05.

TABLE 9. COMPARISONS OF ANNUAL MEAN RELATIVE WEIGHTS FOR NATIVE SPECIES AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		SEGMENTS COMBINED	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	2	78	--	--	24	82	1	77	27	81
GIZZARD SHAD	37	92	135	96	319	91	212	85	703	90
NORTHERN PIKE	--	--	1	127	--	--	--	--	1	127
GOLDEN SHINER	--	--	--	--	--	--	1	84	1	84
RIVER CARPSUCKER	--	--	--	--	9	100	5	86	14	95
WHITE SUCKER	--	--	6	91	1	89	--	--	7	91
SMALLMOUTH BUFFALO	--	--	--	--	42	87	15	91	57	88
SHORTHEAD REDHORSE	--	--	--	--	7	88	2	82	9	87
YELLOW BULLHEAD	4	102	44	107	19	104	9	91	76	104
CHANNEL CATFISH	13	104	38	107	114	107	17	113	182	108
FLATHEAD CATFISH	--	--	--	--	2	80	1	95	3	85
WHITE BASS	--	--	1	80	5	91	--	--	6	89
YELLOW BASS	--	--	1	104	--	--	4	110	5	109
ROCK BASS	--	--	4	91	8	100	2	96	14	97
GREEN SUNFISH	161	121	117	123	359	116	184	120	821	119
PUMPKINSEED	179	115	126	116	91	117	41	118	437	116
WARMOUTH	1	114	--	--	--	--	--	--	1	114
BLUEGILL	76	117	128	111	533	108	590	104	1327	107
SMALLMOUTH BASS	--	--	17	100	14	88	2	104	33	96
LARGEMOUTH BASS	10	103	19	111	206	99	151	99	386	100
BLACK CRAPPIE	--	--	--	--	2	97	--	--	2	97
YELLOW PERCH	--	--	--	--	2	91	--	--	2	91
FRESHWATER DRUM	3	108	17	104	47	103	11	98	78	103
SPECIES COMBINED	486	115	654	110	1804	105	1248	103	4192	106

Table 10. Segment vs. Segment Comparisons of Mean Relative Weight Values for Selected Native Species, 2013.

Species	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55	Significant Difference ^(a)	F Value	P Value
Gizzard shad ^(b)	92 AB	96 A	91 B	85 C ^(c)	Yes	25.28	<0.01
Smallmouth buffalo	--	--	87	91	No	0.87	0.35
Yellow bullhead	++ ^(d)	107	104	++	No	1.38	0.24
Channel catfish	104	107	107	113	No	1.13	0.34
Green sunfish ^(b)	121 A	123 A	116 B	120 A	Yes	11.97	<0.01
Pumpkinseed	115	116	117	118	No	0.78	0.50
Bluegill ^(b)	117 A	111 B	108 B	104 C	Yes	28.20	<0.01
Smallmouth bass	--	100 A	88 B	++	Yes	9.30	<0.01
Largemouth bass	103 B	111 A	99 B	99 B	Yes	5.40	<0.01
Freshwater drum	++	104	103	98	No	0.68	0.51

(a) Results of one-factor parametric Analysis of Variance tests (alpha=0.05).

(b) Wr data log transformed for statistical analyses because they are not normally distributed.

(c) Results of Duncan's Multiple Range Test; values with the same letters are not significantly different (alpha=0.05).

(d) Small sample sizes precluded spatial analyses.

TABLE 11. COMPARISONS OF THE INCIDENCE OF DELT ANOMALIES AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOWER LOCKPORT POOL			BRANDON POOL			UPSTREAM I-55			DOWNSTREAM I-55			TOTAL		
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--
LONGNOSE GAR	--	2	--	--	--	--	1	25	4.0	--	1	--	1	28	3.6
GIZZARD SHAD	--	212	--	1	603	0.2	--	732	--	--	300	--	1	1,847	0.1
THREADFIN SHAD	--	26	--	--	10	--	--	8	--	--	91	--	--	135	--
GRASS PICKEREL	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--
NORTHERN PIKE	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
GOLDFISH	--	--	--	1	11	9.1	1	7	14.3	--	--	--	2	18	11.1
COMMON CARP	10	17	58.8	28	42	66.7	41	82	50.0	9	23	39.1	88	164	53.7
CARP X GOLDFISH HYBRID	--	--	--	--	1	--	--	1	--	--	--	--	--	2	--
GOLDEN SHINER	--	4	--	--	3	--	--	2	--	--	3	--	--	12	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--
EMERALD SHINER	--	11	--	--	23	--	--	30	--	--	2	--	--	66	--
GHOST SHINER	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--
STRIPED SHINER	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	5	--	--	7	--	--	12	--
ROSYFACE SHINER	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--
SPOTFIN SHINER	--	4	--	1	5	20.0	1	32	3.1	--	10	--	2	51	3.9
MIMIC SHINER	--	--	--	--	--	--	--	3	--	--	--	--	--	3	--
BLUNTNOSE MINNOW	--	141	--	--	265	--	--	543	--	--	195	--	--	1,144	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	1	--	--	12	--	--	13	--
RIVER CARPSUCKER	--	--	--	--	--	--	2	9	22.2	1	5	20.0	3	14	21.4
QUILLBACK	--	--	--	--	--	--	--	3	--	--	1	--	--	4	--
WHITE SUCKER	--	--	--	--	9	--	1	1	100.0	--	--	--	1	10	10.0
SMALLMOUTH BUFFALO	--	--	--	--	--	--	28	43	65.1	5	16	31.3	33	59	55.9
BLACK BUFFALO	--	--	--	--	--	--	--	2	--	--	--	--	--	2	--
SILVER REDHORSE	--	--	--	--	--	--	1	1	100.0	--	--	--	1	1	100.0
GOLDEN REDHORSE	--	--	--	--	--	--	1	1	100.0	--	5	--	1	6	16.7
SHORTHEAD REDHORSE	--	--	--	--	--	--	4	7	57.1	1	2	50.0	5	9	55.6
ORIENTAL WEATHERFISH	2	19	10.5	--	10	--	--	--	--	--	--	--	2	29	6.9
YELLOW BULLHEAD	--	5	--	7	45	15.6	1	19	5.3	--	9	--	8	78	10.3
CHANNEL CATFISH	10	13	76.9	35	38	92.1	93	114	81.6	12	17	70.6	150	182	82.4
TADPOLE MADTOM	--	--	--	--	4	--	--	--	--	--	--	--	--	4	--
FLATHEAD CATFISH	--	--	--	--	--	--	2	2	100.0	--	1	--	2	3	66.7
BANDED KILLIFISH	--	3	--	--	1	--	--	--	--	--	--	--	--	4	--
BLACKSTRIPE TOPMINNOW	--	1	--	--	3	--	--	8	--	--	2	--	--	14	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	1	--	--	1	--	--	2	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	4	--	--	2	--	--	6	--
WHITE BASS	--	--	--	--	1	--	--	5	--	--	--	--	--	6	--
YELLOW BASS	--	--	--	--	1	--	--	--	--	--	4	--	--	5	--
ROCK BASS	--	--	--	--	7	--	--	9	--	--	4	--	--	20	--
GREEN SUNFISH	10	183	5.5	4	146	2.7	17	430	4.0	5	259	1.9	36	1,018	3.5
PUMPKINSEED	2	210	1.0	--	96	--	1	82	1.2	--	29	--	3	417	0.7
WARMOUTH	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--
ORANGESPOTTED SUNFISH	--	1	--	--	35	--	--	7	--	1	60	1.7	1	103	1.0
BLUEGILL	3	225	1.3	7	229	3.1	18	1,200	1.5	18	1,989	0.9	46	3,643	1.3
NORTHERN SUNFISH	--	2	--	--	2	--	--	42	--	1	22	4.5	1	68	1.5
Lepomis HYBRID	--	2	--	--	10	--	--	191	--	--	30	--	--	233	--
Lepomis sp.	--	1	--	--	2	--	--	6	--	--	37	--	--	46	--
SMALLMOUTH BASS	--	--	--	3	48	6.3	1	17	5.9	--	5	--	4	70	5.7
LARGEMOUTH BASS	4	53	7.5	4	82	4.9	63	317	19.9	29	288	10.1	100	740	13.5
BLACK CRAPPIE	--	--	--	--	--	--	--	2	--	--	--	--	--	2	--
JOHNNY DARTER	--	--	--	--	1	--	--	1	--	--	--	--	--	2	--
YELLOW PERCH	--	--	--	--	--	--	--	2	--	--	--	--	--	2	--
LOGPERCH	--	--	--	--	3	--	--	1	--	--	10	--	--	14	--
BLACKSIDE DARTER	--	--	--	--	3	--	--	4	--	--	--	--	--	7	--
FRESHWATER DRUM	3	3	100.0	8	17	47.1	34	47	72.3	1	12	8.3	46	79	58.2
ROUND GOBY	--	6	--	1	208	0.5	--	23	--	--	1	--	1	238	0.4
TOTAL FISH	44	1,145	3.8	100	1,965	5.1	311	4,076	7.6	83	3,457	2.4	538	10,643	5.1

NOTE: DELT# = Number of fish with DELT anomalies; EXAM# = Number of fish examined for DELT anomalies; DELT% = Percentage of examined fish with DELT anomalies. 0.0 denotes values less than 0.05.

TABLE 12. COMPARISONS OF THE NUMBER AND PERCENTAGE OF FISH WITH EROSION AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY AND THE PERCENTAGE THAT EROSION CONTRIBUTED TO ALL DELT ANOMALIES COMBINED, 2013.

SPECIES	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		TOTAL WITH EROSION	TOTAL WITH DELT ANOMALIES	PERCENT WITH EROSION
	#	%	#	%	#	%	#	%			
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	1	100.0	--	--	1	1	100.0
GIZZARD SHAD	--	--	1	100.0	--	--	--	--	1	1	100.0
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	--	--	--	--	1	100.0	--	--	1	2	50.0
COMMON CARP	10	100.0	27	96.4	39	95.1	9	100.0	85	88	96.6
CARP X GOLDFISH HYBRID	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	--
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	2	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	1	50.0	1	100.0	2	3	66.7
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	1	100.0	--	--	1	1	100.0
SMALLMOUTH BUFFALO	--	--	--	--	27	96.4	5	100.0	32	33	97.0
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	1	100.0	--	--	1	1	100.0
GOLDEN REDHORSE	--	--	--	--	1	100.0	--	--	1	1	100.0
SHORTHEAD REDHORSE	--	--	--	--	4	100.0	1	100.0	5	5	100.0
ORIENTAL WEATHERFISH	1	50.0	--	--	--	--	--	--	1	2	50.0
YELLOW BULLHEAD	--	--	6	85.7	1	100.0	--	--	7	8	87.5
CHANNEL CATFISH	10	100.0	35	100.0	92	98.9	12	100.0	149	150	99.3
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	2	100.0	--	--	2	2	100.0
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	5	50.0	2	50.0	12	70.6	5	100.0	24	36	66.7
PUMPKINSEED	--	--	--	--	--	--	--	--	--	3	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	1	--
BLUEGILL	2	66.7	6	85.7	17	94.4	12	66.7	37	46	80.4
NORTHERN SUNFISH	--	--	--	--	--	--	--	--	--	1	--
Lepomis HYBRID	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	2	66.7	1	100.0	--	--	3	4	75.0
LARGEMOUTH BASS	4	100.0	4	100.0	61	96.8	27	93.1	96	100	96.0
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	3	100.0	8	100.0	34	100.0	1	100.0	46	46	100.0
ROUND GOBY	--	--	--	--	--	--	--	--	--	1	--
TOTAL FISH	35	79.5	91	91.0	296	95.2	73	88.0	495	538	92.0

TABLE 13. SPECIES COMPOSITION, NUMBER, AND RELATIVE ABUNDANCE OF FISH COLLECTED FROM THE UPPER ILLINOIS WATERWAY, 1994, 1995, 2000-2002, AND 2005-2013.

SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01
LONGNOSE GAR	--	--	7	0.10	11	0.09	15	0.10	15	0.07	11	0.04	18	0.08	23	0.09	34	0.16	39	0.22	48	0.26	43	0.24	32	0.13	28	0.21
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	--	--	--	--
GAR sp.	1	0.02	--	--	3	0.03	--	--	1	0.00	--	--	--	--	1	0.00	--	--	1	0.01	1	0.01	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	1	0.01	--	--	--	--	--	--	--	--	--	--	--	--	2	0.01	--	--	1	0.00	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	--	--	--	--	--	--
SKIPJACK HERRING	4	0.10	1	0.01	3	0.03	27	0.17	16	0.08	5	0.02	1	0.00	1	0.00	10	0.05	--	--	2	0.01	3	0.02	1	0.00	--	--
ALEWIFE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	0.05	--	--	--	--	--
GIZZARD SHAD	850	20.83	508	7.52	2,457	21.07	5,459	34.64	7,841	37.12	9,101	29.79	3,441	15.51	5,258	21.23	4,788	21.83	1,934	10.77	4,534	24.31	5,341	29.93	4,640	19.49	1,825	13.67
THREADFIN SHAD	--	--	--	--	167	1.43	124	0.79	84	0.40	2	0.01	112	0.50	9	0.04	224	1.02	256	1.43	472	2.53	209	1.17	854	3.59	138	1.03
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.00	1	0.00	--	--	24	0.13	--	--	2	0.01	--	--
RAINBOW TROUT	--	--	--	--	1	0.01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	2	0.03	--	--	--	--	--	--	--	--	--	--	1	0.00	--	--	2	0.01	9	0.05	11	0.06	1	0.00	--	--
GRASS PICKEREL	--	--	--	--	34	0.29	8	0.05	2	0.01	5	0.02	1	0.00	14	0.06	14	0.06	32	0.18	12	0.06	29	0.16	1	0.00	1	0.01
NORTHERN PIKE	--	--	2	0.03	--	--	1	0.01	--	--	--	--	1	0.00	3	0.01	28	0.13	11	0.06	7	0.04	4	0.02	1	0.00	1	0.01
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.00	--	--	1	0.01	--	--	--	--	--	--
CENTRAL STONEROLLER	2	0.05	--	--	--	--	18	0.11	--	--	6	0.02	3	0.01	9	0.04	9	0.04	30	0.17	3	0.02	1	0.01	2	0.01	3	0.02
GOLDFISH	29	0.71	26	0.38	7	0.06	6	0.04	9	0.04	17	0.06	9	0.04	229	0.92	43	0.20	23	0.13	17	0.09	10	0.06	65	0.27	18	0.13
GRASS CARP	--	--	--	--	--	--	3	0.02	2	0.01	4	0.01	--	--	2	0.01	1	0.00	5	0.03	1	0.01	1	0.01	--	--	--	--
COMMON CARP	471	11.54	338	5.00	633	5.43	719	4.56	568	2.69	483	1.58	268	1.21	381	1.54	333	1.52	201	1.12	262	1.40	240	1.34	203	0.85	157	1.18
CARP X GOLDFISH HYBRID	64	1.57	69	1.02	48	0.41	33	0.21	21	0.10	1	0.00	8	0.04	15	0.06	16	0.07	6	0.03	12	0.06	--	--	5	0.02	2	0.01
BIGHEAD CARP	--	--	--	--	--	--	--	--	2	0.01	--	--	--	--	--	--	--	--	--	--	4	0.02	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	2	0.01	1	0.00	3	0.01	15	0.07	2	0.01	--	--	--	--	1	0.01	--	--	--	--	1	0.01
GOLDEN SHINER	16	0.39	5	0.07	52	0.45	13	0.08	32	0.15	70	0.23	20	0.09	13	0.05	49	0.22	59	0.33	34	0.18	32	0.18	157	0.66	13	0.10
PALLID SHINER	--	--	--	--	2	0.02	--	--	2	0.01	2	0.01	3	0.01	1	0.00	2	0.01	3	0.02	3	0.02	--	--	3	0.01	1	0.01
EMERALD SHINER	340	8.33	105	1.55	507	4.35	1,276	8.10	2,426	11.49	1,217	3.98	2,038	9.19	1,644	6.64	1,030	4.70	500	2.78	483	2.59	163	0.91	218	0.92	69	0.52
GHOST SHINER	5	0.12	2	0.03	--	--	3	0.02	4	0.02	8	0.03	27	0.12	16	0.06	14	0.06	102	0.57	3	0.02	--	--	--	--	1	0.01
STRIPED SHINER	23	0.56	2	0.03	--	--	21	0.13	40	0.19	141	0.46	185	0.83	199	0.80	63	0.29	47	0.26	5	0.03	28	0.16	9	0.04	16	0.12
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	1	0.01	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	2	0.01	--	--	--	--	2	0.01	1	0.00	--	--	--	--	4	0.02	--	--	--	--
SPOTTAIL SHINER	208	5.10	174	2.57	281	2.41	513	3.26	164	0.78	168	0.55	241	1.09	673	2.72	281	1.28	153	0.85	179	0.96	87	0.49	38	0.16	11	0.08
RED SHINER	--	--	--	--	1	0.01	1	0.01	1	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	--	--	9	0.07
SPOTFIN SHINER	15	0.37	21	0.31	143	1.23	158	1.00	207	0.98	485	1.59	460	2.07	461	1.86	354	1.61	293	1.63	201	1.08	433	2.43	377	1.58	115	0.86
SAND SHINER	16	0.39	10	0.15	12	0.10	31	0.20	48	0.23	88	0.29	24	0.11	36	0.15	35	0.16	51	0.28	23	0.12	138	0.77	53	0.22	10	0.07
REDFIN SHINER	--	--	1	0.01	--	--	2	0.01	1	0.00	2	0.01	2	0.01	2	0.01	3	0.01	26	0.14	--	--	--	--	8	0.03	--	--
MIMIC SHINER	9	0.22	5	0.07	--	--	--	--	--	--	5	0.02	--	--	1	0.00	2	0.01	1	0.01	3	0.02	--	--	2	0.01	3	0.02
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	--	--	--	--	--	--
Notropis sp.	2	0.05	1	0.01	--	--	--	--	--	--	1	0.00	1	0.00	--	--	1	0.00	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	1	0.00	1	0.00	--	--	1	0.00	6	0.03	4	0.02	--	--	4	0.02	1	0.00	--	--
BLUNTNOST MINNOW	1,057	25.91	3,609	53.40	1,441	12.36	2,849	18.08	2,334	11.05	8,106	26.54	7,661	34.54	8,658	34.95	5,022	22.89	5,672	31.59	3,803	20.39	1,872	10.49	3,393	14.25	2,580	19.32
FATHEAD MINNOW	1	0.02	12	0.18	--	--	2	0.01	18	0.09	24	0.08	1															

TABLE 13 (cont.)

SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
BROOK SILVERSIDE	14	0.34	23	0.34	4	0.03	10	0.06	17	0.08	168	0.55	111	0.50	157	0.63	66	0.30	97	0.54	83	0.45	143	0.80	43	0.18	28	0.21
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	--	--	--	--	--	--
THREESPINE STICKLEBACK	1	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE PERCH	--	--	2	0.03	19	0.16	32	0.20	7	0.03	--	--	1	0.00	2	0.01	11	0.05	3	0.02	27	0.14	--	--	1	0.00	--	--
WHITE BASS	1	0.02	--	--	9	0.08	10	0.06	14	0.07	4	0.01	3	0.01	2	0.01	6	0.03	1	0.01	3	0.02	--	--	4	0.02	6	0.04
YELLOW BASS	--	--	14	0.21	7	0.06	10	0.06	3	0.01	3	0.01	--	--	3	0.01	11	0.05	--	--	27	0.14	--	--	--	--	5	0.04
Morone HYBRID	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	1	0.00	--	--	9	0.04	--	--	--	--	--	--	--	--	--	--
HYBRID STRIPER	1	0.02	--	--	--	--	2	0.01	--	--	--	--	--	--	--	--	2	0.01	--	--	--	--	--	--	--	--	--	--
Morone sp.	2	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	1	0.01	--	--	--	--	--	--
ROCK BASS	--	--	--	--	7	0.06	7	0.04	6	0.03	9	0.03	16	0.07	31	0.13	32	0.15	51	0.28	48	0.26	32	0.18	21	0.09	20	0.15
GREEN SUNFISH	227	5.56	133	1.97	1,731	14.84	792	5.03	1,852	8.77	895	2.93	869	3.92	1,140	4.60	1,367	6.23	1,561	8.69	1,515	8.12	1,802	10.10	2,369	9.95	970	7.26
PUMPKINSEED	3	0.07	1	0.01	4	0.03	3	0.02	18	0.09	10	0.03	117	0.53	52	0.21	195	0.89	123	0.69	34	0.18	42	0.24	676	2.84	475	3.56
WARMOUTH	--	--	--	--	1	0.01	1	0.01	2	0.01	1	0.00	--	--	--	--	--	--	2	0.01	--	--	1	0.01	3	0.01	1	0.01
ORANGESPOTTED SUNFISH	97	2.38	163	2.41	291	2.50	138	0.88	747	3.54	328	1.07	423	1.91	271	1.09	737	3.36	439	2.45	731	3.92	266	1.49	417	1.75	142	1.06
BLUEGILL	45	1.10	181	2.68	2,175	18.65	1,993	12.65	2,849	13.49	6,224	20.38	3,541	15.96	2,978	12.02	4,031	18.38	2,161	12.04	2,218	11.89	3,665	20.54	5,597	23.51	4,110	30.78
REDEAR SUNFISH	--	--	--	--	--	--	--	--	3	0.01	1	0.00	3	0.01	1	0.00	--	--	--	--	--	--	--	--	1	0.00	1	0.01
NORTHERN SUNFISH	7	0.17	2	0.03	29	0.25	37	0.23	29	0.14	26	0.09	27	0.12	61	0.25	89	0.41	90	0.50	64	0.34	30	0.17	39	0.16	82	0.61
Lepomis HYBRID	5	0.12	3	0.04	133	1.14	64	0.41	134	0.63	227	0.74	296	1.33	232	0.94	239	1.09	309	1.72	220	1.18	155	0.87	179	0.75	228	1.71
Lepomis sp.	89	2.18	111	1.64	3	0.03	30	0.19	8	0.04	564	1.85	22	0.10	106	0.43	310	1.41	274	1.53	726	3.89	738	4.14	965	4.05	259	1.94
SMALLMOUTH BASS	25	0.61	33	0.49	27	0.23	46	0.29	99	0.47	35	0.11	38	0.17	117	0.47	153	0.70	200	1.11	100	0.54	86	0.48	49	0.21	69	0.52
LARGEMOUTH BASS	77	1.89	658	9.74	492	4.22	274	1.74	446	2.11	354	1.16	693	3.12	527	2.13	585	2.67	972	5.41	1,126	6.04	702	3.93	376	1.58	816	6.11
Micropterus sp.	--	--	8	0.12	--	--	--	--	--	--	1	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE CRAPPIE	6	0.15	--	--	7	0.06	--	--	7	0.03	--	--	2	0.01	2	0.01	2	0.01	2	0.01	3	0.02	4	0.02	1	0.00	--	--
BLACK CRAPPIE	1	0.02	3	0.04	13	0.11	3	0.02	20	0.09	4	0.01	4	0.02	18	0.07	9	0.04	7	0.04	14	0.08	3	0.02	1	0.00	3	0.02
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.00	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	2	0.05	43	0.64	1	0.01	7	0.04	2	0.01	3	0.01	14	0.06	29	0.12	11	0.05	11	0.06	19	0.10	19	0.11	9	0.04	6	0.04
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.01	--	--	3	0.02
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0.01	--	--	2	0.01	--	--	3	0.02
LOGPERCH	1	0.02	4	0.06	9	0.08	11	0.07	15	0.07	33	0.11	17	0.08	50	0.20	58	0.26	108	0.60	77	0.41	66	0.37	5	0.02	14	0.10
BLACKSIDE DARTER	--	--	--	--	1	0.01	1	0.01	1	0.00	5	0.02	1	0.00	7	0.03	16	0.07	20	0.11	14	0.08	14	0.08	10	0.04	15	0.11
SLENDERHEAD DARTER	--	--	--	--	2	0.02	--	--	2	0.01	1	0.00	1	0.00	1	0.00	1	0.00	3	0.02	--	--	1	0.01	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	1	0.00	--	--	--	--	2	0.01	4	0.02	9	0.05	--	--	1	0.01	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	1	0.00	--	--	--	--	--	--	1	0.01	1	0.01	3	0.02	--	--	--	--
FRESHWATER DRUM	79	1.94	61	0.90	127	1.09	129	0.82	151	0.71	103	0.34	108	0.49	103	0.42	92	0.42	119	0.66	92	0.49	70	0.39	43	0.18	74	0.55
ROUND GOBY	--	--	--	--	2	0.02	5	0.03	18	0.09	105	0.34	62	0.28	234	0.94	310	1.41	482	2.68	245	1.31	184	1.03	302	1.27	353	2.64
TOTAL FISH	4,080	100.00	6,759	100.00	11,661	100.00	15,760	100.00	21,123	100.00	30,547	100.00	22,183	100.00	24,771	100.00	21,935	100.00	17,954	100.00	18,650	100.00	17,845	100.00	23,807	100.00	13,352	100.00
TOTAL SPECIES	46		48		55		61		66		61		58		66		61		62		66		64		60		60	

NOTE: DATA COMPARED ARE FROM ELECTROFISHING AND SEINING DURING THE PERIOD OF MAY-SEPTEMBER AT THE SAME LOCATIONS, EXCEPT THAT LOCATION 302B WAS SUBSTITUTED FOR LOCATION 302C IN LOWER LOCKPORT POOL BEGINNING IN 2001 AND LOCATION 405 IN THE UPSTREAM I-55 SEGMENT WAS NOT SAMPLED IN 2000. DATA FROM THE FOLLOWING LOCATIONS (AND YEARS) ARE EXCLUDED: LOCATION 308 (1994, 1995, AND 2000), LOCATION 404A (2001, 2002, AND 2005-2013), AND LOCATION 409 (1994 AND 1995).
0.00 DENOTES VALUES LESS THAN 0.005.

TABLE 14. SPECIES COMPOSITION, NUMBER, AND RELATIVE ABUNDANCE OF FISH COLLECTED WITHIN FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 1994, 1995, 2000-2002, AND 2005-2013.

LOWER LOCKPORT POOL																												
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010 ^(a)		2011		2012		2013	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	1	0.0	2	0.2
SKIPJACK HERRING	--	--	--	--	--	--	2	0.1	--	--	--	--	1	0.1	--	--	1	0.1	--	--	2	0.1	--	--	--	--	--	--
ALEWIFE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	0.8	--	--	--	--
GIZZARD SHAD	1	1.7	33	20.6	404	64.0	1,615	66.8	2,500	75.8	1,245	71.2	629	61.5	1,113	61.7	932	53.2	354	27.8	906	61.4	807	68.3	966	30.4	212	18.5
THREADFIN SHAD	--	--	--	--	4	0.6	--	--	--	--	--	--	--	--	--	--	8	0.5	64	5.0	61	4.1	--	--	44	1.4	26	2.3
RAINBOW TROUT	--	--	--	--	1	0.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	4	0.3	1	0.1	1	0.0	--	--
GRASS PICKEREL	--	--	--	--	5	0.8	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	8	13.8	2	1.3	--	--	--	--	2	0.1	--	--	--	--	1	0.1	1	0.1	3	0.2	1	0.1	--	--	8	0.3	--	--
COMMON CARP	29	50.0	18	11.3	53	8.4	70	2.9	140	4.2	80	4.6	38	3.7	41	2.3	26	1.5	22	1.7	14	0.9	33	2.8	15	0.5	17	1.5
CARP X GOLDFISH HYBRID	3	5.2	8	5.0	1	0.2	1	0.0	2	0.1	--	--	1	0.1	1	0.1	--	--	--	--	--	--	--	--	1	0.0	--	--
GOLDEN SHINER	1	1.7	--	--	--	--	--	--	15	0.5	--	--	--	--	4	0.2	--	--	4	0.3	1	0.1	--	--	25	0.8	4	0.3
EMERALD SHINER	3	5.2	21	13.1	50	7.9	178	7.4	178	5.4	24	1.4	59	5.8	134	7.4	46	2.6	122	9.6	80	5.4	1	0.1	50	1.6	11	1.0
SPOTTAIL SHINER	--	--	--	--	--	--	3	0.1	1	0.0	--	--	2	0.2	--	--	--	--	--	--	1	0.1	--	--	--	--	--	--
SPOTFIN SHINER	1	1.7	--	--	16	2.5	6	0.2	20	0.6	2	0.1	--	--	7	0.4	16	0.9	6	0.5	4	0.3	2	0.2	23	0.7	4	0.3
SAND SHINER	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	2	3.4	2	1.3	37	5.9	383	15.8	188	5.7	314	18.0	140	13.7	272	15.1	414	23.6	354	27.8	237	16.1	69	5.8	417	13.1	141	12.3
FATHEAD MINNOW	1	1.7	1	0.6	--	--	1	0.0	8	0.2	1	0.1	1	0.1	--	--	--	--	--	--	1	0.1	1	0.1	7	0.2	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	2	0.1	--	--	--	--	1	0.1
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0.1	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	--	--	--	1	0.2	--	--	--	--	1	0.1	3	0.3	2	0.1	2	0.1	2	0.2	1	0.1	17	1.4	65	2.0	19	1.7
BLACK BULLHEAD	--	--	--	--	--	--	--	--	3	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	4	0.1	3	0.2	1	0.1	5	0.3	3	0.2	4	0.3	1	0.1	3	0.3	3	0.1	5	0.4
CHANNEL CATFISH	--	--	1	0.6	5	0.8	20	0.8	22	0.7	10	0.6	13	1.3	11	0.6	5	0.3	12	0.9	6	0.4	7	0.6	2	0.1	13	1.1
TADPOLE MADTOM	--	--	--	--	--	--	1	0.0	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	3	0.3
BLACKSTRIPE TOPMINNOW	--	--	--	--	1	0.2	--	--	3	0.1	1	0.1	--	--	--	--	1	0.1	--	--	2	0.1	--	--	--	--	1	0.1
WESTERN MOSQUITOFISH	4	6.9	--	--	2	0.3	--	--	27	0.8	1	0.1	1	0.1	7	0.4	5	0.3	--	--	--	--	2	0.2	265	8.3	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--
THREESPINE STICKLEBACK	1	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE PERCH	--	--	--	--	--	--	10	0.4	--	--	--	--	--	--	--	--	--	--	--	--	2	0.1	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	1	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	0.3	--	--	--	--	--	--
GREEN SUNFISH	1	1.7	6	3.8	16	2.5	75	3.1	110	3.3	14	0.8	31	3.0	84	4.7	85	4.9	133	10.4	97	6.6	175	14.8	657	20.6	183	15.9
PUMPKINSEED	--	--	--	--	3	0.5	3	0.1	10	0.3	--	--	55	5.4	20	1.1	69	3.9	72	5.7	6	0.4	5	0.4	217	6.8	211	18.4
WARMOUTH	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	2	0.1	1	0.1
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	3	0.1	--	--	1	0.1	1	0.1	--	--	1	0.1	--	--	1	0.1	4	0.1	1	0.1
BLUEGILL	2	3.4	--	--	4	0.6	19	0.8	27	0.8	10	0.6	7	0.7	24	1.3	45	2.6	26	2.0	8	0.5	14	1.2	287	9.0	226	19.7
REDEAR SUNFISH	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN SUNFISH	--	--	1	0.6	--	--	1	0.0	--	--	--	--	--	--	7	0.4	--	--	--	--	--	--	1	0.1	--	--	2	0.2
Lepomis HYBRID	1	1.7	--	--	--	--	1	0.0	2	0.1	10	0.6	3	0.3	26	1.4	23	1.3	13	1.0	--	--	2	0.2	7	0.2	2	0.2
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	2	0.1	--	--	--	--	--	--	--	--	--	--	3	0.3	88	2.8	1	0.1
SMALLMOUTH BASS	--	--	1	0.6	--	--	1	0.0	1	0.0	--	--	1	0.1	4	0.2	1	0.1	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	64	40.0	28	4.4	22	0.9	17	0.5	23	1.3	27	2.6	19	1.1	44	2.5	33	2.6	29	2.0	22	1.9	25	0.8	53	4.6
WHITE CRAPPIE	--	--	--	--	--	--	--	--	2	0.1	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--	--	--
BLACK CRAPPIE	--	--	1	0.6	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.1	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	1	0.0	3	0.1	5	0.3	6	0.6	4	0.2	6	0.3	1	0.1	2	0.1	1	0.1	--	--	3	0.3
ROUND GOBY	--	--	--	--	--	--	--	--	4	0.1	1	0.1	1	0.1	18	1.0	17	1.0	45	3.5	--	--	1	0.1	1	0.0	7	0.6
TOTAL FISH	58	100.0	160	100.0	631	100.0	2,417	100.0	3,297	100.0	1,748	100.0	1,022	100.0	1,805	100.0	1,751	100.0	1,273	100.0	1,476	100.0	1,182	100.0	3,182	100.0	1,149	100.0
CATCH PER GEAR EFFORT	4		11		16		60		82		44		26		45		44		34		37		30		80		29	
TOTAL SPECIES	12		13		16		22		28		17		20		20		21		20		27		25		23		23	

TABLE 14 (cont.)

BRANDON POOL																												
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	1	0.0	4	0.1	1	0.0	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--
SKIPJACK HERRING	1	0.1	1	0.0	1	0.0	10	0.4	6	0.1	2	0.1	--	--	--	--	--	--	--	--	--	--	1	0.0	1	0.0	--	--
GIZZARD SHAD	37	5.1	82	3.5	510	17.6	862	33.5	2,076	42.8	1,348	39.9	514	14.3	1,309	26.4	1,274	27.9	651	16.8	1,522	36.3	1,948	40.7	1,824	31.2	603	22.6
THREADFIN SHAD	--	--	--	--	31	1.1	52	2.0	22	0.5	--	--	6	0.2	1	0.0	44	1.0	23	0.6	99	2.4	--	--	8	0.1	10	0.4
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	2	0.1	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	1	0.0	5	0.1	9	0.2	--	--	--	--
GRASS PICKEREL	--	--	--	--	27	0.9	3	0.1	1	0.0	--	--	1	0.0	13	0.3	12	0.3	13	0.3	9	0.2	21	0.4	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0.0	22	0.5	10	0.3	4	0.1	2	0.0	--	--	1	0.0
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	1	0.0	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	4	0.1	1	0.0	--	--	--	--	--	--	--	--	--	--
GOLDFISH	16	2.2	19	0.8	3	0.1	1	0.0	3	0.1	2	0.1	1	0.0	150	3.0	13	0.3	5	0.1	8	0.2	9	0.2	51	0.9	11	0.4
GRASS CARP	--	--	--	--	--	--	--	--	1	0.0	1	0.0	--	--	1	0.0	--	--	2	0.1	1	0.0	--	--	--	--	--	--
COMMON CARP	199	27.6	98	4.2	281	9.7	202	7.8	132	2.7	84	2.5	87	2.4	136	2.7	100	2.2	54	1.4	106	2.5	78	1.6	91	1.6	42	1.6
CARP X GOLDFISH HYBRID	17	2.4	9	0.4	15	0.5	10	0.4	1	0.0	1	0.0	5	0.1	3	0.1	1	0.0	--	--	5	0.1	--	--	2	0.0	1	0.0
GOLDEN SHINER	--	--	3	0.1	44	1.5	2	0.1	3	0.1	5	0.1	3	0.1	3	0.1	2	0.0	24	0.6	1	0.0	6	0.1	15	0.3	3	0.1
EMERALD SHINER	49	6.8	25	1.1	243	8.4	487	18.9	744	15.3	189	5.6	922	25.7	748	15.1	693	15.2	194	5.0	234	5.6	60	1.3	55	0.9	26	1.0
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0.0	--	--	5	0.1	--	--	--	--	--	--	--	--
STRIPED SHINER	1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	3	0.4	--	--	--	--	3	0.1	4	0.1	9	0.3	--	--	25	0.5	1	0.0	--	--	25	0.6	43	0.9	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--
SPOTFIN SHINER	--	--	--	--	54	1.9	22	0.9	16	0.3	70	2.1	62	1.7	64	1.3	64	1.4	60	1.5	51	1.2	349	7.3	83	1.4	9	0.3
SAND SHINER	--	--	2	0.1	2	0.1	3	0.1	5	0.1	1	0.0	1	0.0	7	0.1	1	0.0	2	0.1	7	0.2	121	2.5	17	0.3	--	--
Notropis sp.	2	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	253	35.1	1,970	85.1	563	19.4	463	18.0	843	17.4	1,136	33.6	1,172	32.6	1,629	32.9	1,158	25.3	1,005	25.9	541	12.9	539	11.3	786	13.5	627	23.5
FATHEAD MINNOW	--	--	8	0.3	--	--	--	--	10	0.2	2	0.1	9	0.3	2	0.0	1	0.0	11	0.3	4	0.1	2	0.0	2	0.0	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	2	0.0	1	0.0	3	0.1	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	3	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--
WHITE SUCKER	58	8.1	10	0.4	3	0.1	35	1.4	17	0.4	36	1.1	5	0.1	2	0.0	3	0.1	30	0.8	133	3.2	39	0.8	9	0.2	13	0.5
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	1	0.0	4	0.1	3	0.1	1	0.0	1	0.0	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	1	0.0	1	0.0	2	0.0	--	--	--	--
SILVER REDHORSE	1	0.1	--	--	--	--	--	--	--	--	2	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	3	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	589	15.2	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7	0.1	--	--	--	--	--	--	--	--	1	0.0	--	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	3	0.1	--	--	--	--	1	0.0	--	--	1	0.0	8	0.2	5	0.1	--	--	15	0.3	10	0.4
BLACK BULLHEAD	1	0.1	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--
YELLOW BULLHEAD	9	1.3	9	0.4	22	0.8	20	0.8	37	0.8	21	0.6	21	0.6	18	0.4	30	0.7	26	0.7	30	0.7	51	1.1	37	0.6	47	1.8
CHANNEL CATFISH	9	1.3	2	0.1	49	1.7	57	2.2	90	1.9	58	1.7	60	1.7	51	1.0	55	1.2	51	1.3	27	0.6	37	0.8	32	0.5	38	1.4
Ameiurus sp.	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	6	0.2	4	0.2	2	0.0	1	0.0	6	0.2	11	0.2	13	0.3	6	0.2	18	0.4	8	0.2	23	0.4	11	0.4
FLATHEAD CATFISH	--	--	--	--	--	--	1	0.0	1	0.0	--	--	--															

TABLE 14 (cont.)

UPSTREAM I-55																												
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
LONGNOSE GAR	--	--	1	0.1	9	0.3	12	0.2	8	0.1	5	0.0	17	0.2	13	0.1	24	0.3	30	0.4	36	0.5	28	0.5	29	0.4	24	0.5
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--
GAR sp.	1	0.1	--	--	1	0.0	--	--	1	0.0	--	--	--	--	1	0.0	--	--	1	0.0	1	0.0	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	2	0.0	--	--	--	--	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--
SKIPJACK HERRING	1	0.1	--	--	1	0.0	7	0.1	6	0.1	1	0.0	--	--	1	0.0	8	0.1	--	--	--	--	2	0.0	--	--	--	--
GIZZARD SHAD	87	6.3	191	14.4	542	19.1	1,571	27.0	1,754	27.7	4,116	39.6	738	9.5	1,514	16.9	1,416	19.2	646	9.4	1,187	17.3	1,226	20.5	1,206	16.7	709	14.7
THREADFIN SHAD	--	--	--	--	25	0.9	6	0.1	9	0.1	--	--	46	0.6	--	--	53	0.7	31	0.4	64	0.9	26	0.4	105	1.5	7	0.1
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	24	0.4	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	2	0.1	1	0.0	1	0.0	--	--	--	--	1	0.0	1	0.0	2	0.0	--	--	2	0.0	1	0.0	1	0.0
NORTHERN PIKE	--	--	2	0.2	--	--	1	0.0	--	--	--	--	--	--	1	0.0	6	0.1	1	0.0	3	0.0	2	0.0	1	0.0	--	--
CENTRAL STONEROLLER	2	0.1	--	--	--	--	18	0.3	--	--	6	0.1	2	0.0	4	0.0	7	0.1	25	0.4	3	0.0	1	0.0	2	0.0	1	0.0
GOLDFISH	4	0.3	4	0.3	4	0.1	5	0.1	4	0.1	14	0.1	7	0.1	40	0.4	18	0.2	15	0.2	6	0.1	1	0.0	6	0.1	7	0.1
GRASS CARP	--	--	--	--	--	--	2	0.0	1	0.0	2	0.0	--	--	1	0.0	1	0.0	3	0.0	--	--	1	0.0	--	--	--	--
COMMON CARP	156	11.3	180	13.5	188	6.6	299	5.1	239	3.8	218	2.1	113	1.4	166	1.9	168	2.3	94	1.4	105	1.5	96	1.6	77	1.1	75	1.6
CARP X GOLDFISH HYBRID	26	1.9	28	2.1	26	0.9	21	0.4	18	0.3	--	--	1	0.0	7	0.1	13	0.2	2	0.0	6	0.1	--	--	1	0.0	1	0.0
BIGHEAD CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	0.1	--	--	--	--	--	--
HORNYHEAD CHUB	--	--	--	--	--	--	2	0.0	1	0.0	3	0.0	15	0.2	1	0.0	--	--	--	--	1	0.0	--	--	--	--	1	0.0
GOLDEN SHINER	2	0.1	--	--	1	0.0	2	0.0	6	0.1	4	0.0	6	0.1	4	0.0	23	0.3	6	0.1	16	0.2	8	0.1	19	0.3	2	0.0
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	0.0	2	0.0	--	--	2	0.0	--	--
EMERALD SHINER	109	7.9	35	2.6	173	6.1	392	6.7	977	15.4	314	3.0	606	7.8	543	6.1	205	2.8	160	2.3	157	2.3	102	1.7	105	1.5	29	0.6
GHOST SHINER	3	0.2	--	--	--	--	2	0.0	3	0.0	1	0.0	5	0.1	5	0.1	3	0.0	96	1.4	3	0.0	--	--	--	--	1	0.0
STRIPED SHINER	19	1.4	1	0.1	--	--	21	0.4	37	0.6	90	0.9	152	1.9	188	2.1	53	0.7	41	0.6	3	0.0	17	0.3	9	0.1	11	0.2
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	2	0.0	1	0.0	--	--	--	--	4	0.1	--	--	--	--
SPOTTAIL SHINER	113	8.2	93	7.0	14	0.5	435	7.5	84	1.3	47	0.5	112	1.4	260	2.9	91	1.2	98	1.4	50	0.7	24	0.4	16	0.2	3	0.1
RED SHINER	--	--	--	--	--	--	1	0.0	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	9	0.2
SPOTFIN SHINER	2	0.1	8	0.6	28	1.0	80	1.4	90	1.4	210	2.0	176	2.3	249	2.8	179	2.4	133	1.9	89	1.3	59	1.0	186	2.6	85	1.8
SAND SHINER	16	1.2	8	0.6	10	0.4	26	0.4	41	0.6	21	0.2	22	0.3	22	0.2	21	0.3	49	0.7	16	0.2	17	0.3	34	0.5	9	0.2
REDFIN SHINER	--	--	--	--	--	--	2	0.0	1	0.0	1	0.0	2	0.0	2	0.0	3	0.0	23	0.3	--	--	--	--	5	0.1	--	--
MIMIC SHINER	9	0.7	4	0.3	--	--	--	--	--	--	2	0.0	--	--	1	0.0	--	--	1	0.0	3	0.0	--	--	1	0.0	3	0.1
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--
Notropis sp.	--	--	1	0.1	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	1	0.0	1	0.0	--	--	--	--	5	0.1	4	0.1	--	--	4	0.1	1	0.0	--	--
BLUNTNOSE MINNOW	552	40.0	408	30.7	262	9.3	1,290	22.2	747	11.8	2,654	25.5	3,475	44.5	3,379	37.8	1,840	25.0	2,441	35.4	1,486	21.7	790	13.2	1,365	18.9	1,119	23.2
FATHEAD MINNOW	--	--	3	0.2	--	--	1	0.0	--	--	17	0.2	3	0.0	4	0.0	8	0.1	19	0.3	--	--	3	0.1	5	0.1	5	0.1
BULLHEAD MINNOW	2	0.1	6	0.5	12	0.4	126	2.2	7	0.1	292	2.8	7	0.1	32	0.4	14	0.2	5	0.1	6	0.1	1	0.0	5	0.1	1	0.0
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	1	0.1	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	8	0.6	7	0.5	11	0.4	7	0.1	12	0.2	3	0.0	2	0.0	2	0.0	5	0.1	2	0.0	5	0.1	4	0.1	3	0.0	9	0.2
QUILLBACK	4	0.3	7	0.5	11	0.4	5	0.1	5	0.1	--	--	5	0.1	7	0.1	5	0.1	3	0.0	11	0.2	7	0.1	7	0.1	2	0.0
WHITE SUCKER	8	0.6	12	0.9	1	0.0	4	0.1	2	0.0	--	--	--	--	1	0.0	--	--	2	0.0	1	0.0	2	0.0	1	0.0	2	0.0
SMALLMOUTH BUFFALO	19	1.4	29	2.2	48	1.7	58	1.0	71	1.1	73	0.7	58	0.7	58	0.6	47	0.6	61	0.9	54	0.8	40	0.7	54	0.7	39	0.8
BIGMOUTH BUFFALO	--	--	2	0.2	3	0.1	2	0.0	3	0.0	--	--	2	0.0	--	--	--	--	--	--	1	0.0	--	--	1	0.0	--	--
BLACK BUFFALO	4	0.3	--	--	2	0.1	2	0.0	1	0.0	--	--	--															

TABLE 14 (cont.)

UPSTREAM I-55 (cont.)																													
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013		
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	
HYBRID STRIPER	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	3	0.1	5	0.1	5	0.1	3	0.0	5	0.1	25	0.3	15	0.2	6	0.1	12	0.2	5	0.1	5	0.1	9	0.2	
GREEN SUNFISH	103	7.5	82	6.2	492	17.4	398	6.8	761	12.0	373	3.6	386	4.9	505	5.6	705	9.6	708	10.3	626	9.1	949	15.9	903	12.5	371	7.7	
PUMPKINSEED	--	--	--	--	--	--	--	--	--	--	3	0.0	17	0.2	11	0.1	66	0.9	15	0.2	19	0.3	25	0.4	171	2.4	89	1.8	
ORANGESPOTTED SUNFISH	3	0.2	7	0.5	29	1.0	2	0.0	14	0.2	15	0.1	25	0.3	44	0.5	73	1.0	66	1.0	101	1.5	75	1.3	112	1.5	12	0.2	
BLUEGILL	11	0.8	36	2.7	404	14.3	572	9.8	733	11.6	1,137	10.9	876	11.2	963	10.8	1,251	17.0	710	10.3	967	14.1	1,271	21.3	1,433	19.8	1,208	25.1	
REDEAR SUNFISH	--	--	--	--	--	--	--	--	2	0.0	--	--	2	0.0	1	0.0	--	--	--	--	--	--	--	--	--	--	1	0.0	
NORTHERN SUNFISH	5	0.4	1	0.1	25	0.9	24	0.4	26	0.4	13	0.1	13	0.2	21	0.2	33	0.4	29	0.4	33	0.5	18	0.3	30	0.4	45	0.9	
Lepomis HYBRID	2	0.1	3	0.2	98	3.5	51	0.9	101	1.6	156	1.5	230	2.9	152	1.7	166	2.3	233	3.4	191	2.8	135	2.3	142	2.0	185	3.8	
Lepomis sp.	--	--	--	--	--	--	2	0.0	--	--	109	1.0	--	--	57	0.6	116	1.6	171	2.5	685	10.0	318	5.3	202	2.8	89	1.8	
SMALLMOUTH BASS	10	0.7	10	0.8	7	0.2	26	0.4	63	1.0	21	0.2	18	0.2	81	0.9	84	1.1	133	1.9	57	0.8	44	0.7	34	0.5	15	0.3	
LARGEMOUTH BASS	28	2.0	43	3.2	169	6.0	132	2.3	219	3.5	127	1.2	228	2.9	185	2.1	202	2.7	358	5.2	378	5.5	260	4.4	184	2.5	315	6.5	
Micropterus sp.	--	--	8	0.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
WHITE CRAPPIE	--	--	--	--	2	0.1	--	--	1	0.0	--	--	1	0.0	--	--	--	--	2	0.0	2	0.0	--	--	--	--	--	--	
BLACK CRAPPIE	--	--	1	0.1	4	0.1	2	0.0	9	0.1	--	--	2	0.0	8	0.1	3	0.0	2	0.0	6	0.1	1	0.0	--	--	2	0.0	
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	
JOHNNY DARTER	--	--	41	3.1	1	0.0	--	--	--	--	3	0.0	7	0.1	16	0.2	5	0.1	5	0.1	17	0.2	5	0.1	4	0.1	2	0.0	
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	3	0.1	
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	1	0.0	--	--	2	0.0	
LOGPERCH	--	--	--	--	2	0.1	1	0.0	3	0.0	7	0.1	--	--	4	0.0	3	0.0	10	0.1	6	0.1	9	0.2	2	0.0	1	0.0	
BLACKSIDE DARTER	--	--	--	--	--	--	1	0.0	--	--	2	0.0	--	--	4	0.0	10	0.1	8	0.1	4	0.1	3	0.1	--	--	12	0.2	
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	
SAUGER	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	1	0.0	1	0.0	--	--	--	--	
FRESHWATER DRUM	27	2.0	25	1.9	91	3.2	71	1.2	87	1.4	50	0.5	47	0.6	63	0.7	51	0.7	57	0.8	61	0.9	45	0.8	29	0.4	42	0.9	
ROUND GOBY	--	--	--	--	--	--	1	0.0	1	0.0	35	0.3	11	0.1	40	0.4	40	0.5	57	0.8	61	0.9	13	0.2	23	0.3	32	0.7	
TOTAL FISH	1,379	100.0	1,329	100.0	2,832	100.0	5,815	100.0	6,328	100.0	10,396	100.0	7,802	100.0	8,950	100.0	7,361	100.0	6,891	100.0	6,853	100.0	5,972	100.0	7,229	100.0	4,815	100.0	
CATCH PER GEAR EFFORT	46		42		44		75		79		130		98		112		92		86		86		75		90		60		
TOTAL SPECIES	36		36		45		55		55		47		49		56		52		55		56		55		50		54		

TABLE 14 (cont.)

DOWNSTREAM I-55																												
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0
LONGNOSE GAR	--	--	6	0.2	2	0.0	3	0.1	7	0.1	6	0.0	1	0.0	9	0.1	9	0.1	5	0.1	11	0.2	14	0.2	2	0.0	2	0.0
GAR sp.	--	--	--	--	2	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	2	0.1	--	--	1	0.0	8	0.2	4	0.1	2	0.0	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	725	37.7	202	6.8	1,001	18.9	1,411	28.5	1,511	22.7	2,392	15.9	1,560	16.0	1,322	14.6	1,166	14.1	283	4.8	919	15.0	1,360	23.0	644	8.5	301	6.4
THREADFIN SHAD	--	--	--	--	107	2.0	66	1.3	53	0.8	2	0.0	60	0.6	8	0.1	119	1.4	138	2.3	248	4.0	183	3.1	697	9.2	95	2.0
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0.0	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	3	0.1	--	--	5	0.0	--	--	--	--	1	0.0	17	0.3	3	0.0	5	0.1	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	1	0.0	5	0.1	--	--	--	--	--	--	2	0.0
GOLDFISH	1	0.1	1	0.0	--	--	--	--	--	--	1	0.0	1	0.0	38	0.4	11	0.1	--	--	2	0.0	--	--	--	--	--	--
GRASS CARP	--	--	--	--	--	--	1	0.0	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
COMMON CARP	87	4.5	42	1.4	111	2.1	148	3.0	57	0.9	101	0.7	30	0.3	38	0.4	39	0.5	31	0.5	37	0.6	33	0.6	20	0.3	23	0.5
CARP X GOLDFISH HYBRID	18	0.9	24	0.8	6	0.1	1	0.0	--	--	--	--	1	0.0	4	0.0	2	0.0	4	0.1	1	0.0	--	--	1	0.0	--	--
BIGHEAD CARP	--	--	--	--	--	--	--	--	2	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	13	0.7	2	0.1	7	0.1	9	0.2	8	0.1	61	0.4	11	0.1	2	0.0	24	0.3	25	0.4	16	0.3	18	0.3	98	1.3	4	0.1
PALLID SHINER	--	--	--	--	2	0.0	--	--	2	0.0	2	0.0	3	0.0	1	0.0	2	0.0	--	--	1	0.0	--	--	1	0.0	1	0.0
EMERALD SHINER	179	9.3	24	0.8	41	0.8	219	4.4	527	7.9	690	4.6	451	4.6	219	2.4	86	1.0	24	0.4	12	0.2	--	--	8	0.1	3	0.1
GHOST SHINER	2	0.1	2	0.1	--	--	1	0.0	1	0.0	7	0.0	22	0.2	9	0.1	11	0.1	1	0.0	--	--	--	--	--	--	--	--
STRIPED SHINER	3	0.2	1	0.0	--	--	--	--	3	0.0	51	0.3	33	0.3	10	0.1	10	0.1	6	0.1	2	0.0	11	0.2	--	--	5	0.1
SPOTTAIL SHINER	92	4.8	81	2.7	267	5.0	72	1.5	75	1.1	112	0.7	127	1.3	388	4.3	189	2.3	55	0.9	103	1.7	20	0.3	22	0.3	8	0.2
RED SHINER	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	12	0.6	13	0.4	45	0.8	50	1.0	81	1.2	203	1.4	222	2.3	141	1.6	95	1.2	94	1.6	57	0.9	23	0.4	85	1.1	17	0.4
SAND SHINER	--	--	--	--	--	--	2	0.0	1	0.0	66	0.4	1	0.0	7	0.1	13	0.2	--	--	--	--	--	--	2	0.0	1	0.0
REDFIN SHINER	--	--	1	0.0	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	3	0.1	--	--	--	--	3	0.0	--	--
MIMIC SHINER	--	--	1	0.0	--	--	--	--	--	--	3	0.0	--	--	--	--	2	0.0	--	--	--	--	--	--	1	0.0	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	1	0.0	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	250	13.0	1,229	41.6	579	10.9	713	14.4	556	8.4	4,002	26.6	2,874	29.4	3,378	37.3	1,610	19.5	1,872	31.7	1,539	25.1	474	8.0	825	10.9	693	14.7
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	4	0.0	1	0.0	--	--	4	0.0	4	0.1	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	57	3.0	193	6.5	235	4.4	240	4.8	97	1.5	423	2.8	218	2.2	128	1.4	282	3.4	28	0.5	52	0.8	91	1.5	46	0.6	20	0.4
RIVER CARPSUCKER	4	0.2	10	0.3	11	0.2	13	0.3	7	0.1	16	0.1	7	0.1	16	0.2	10	0.1	8	0.1	3	0.0	--	--	1	0.0	5	0.1
QUILLBACK	6	0.3	10	0.3	4	0.1	12	0.2	4	0.1	19	0.1	5	0.1	2	0.0	5	0.1	9	0.2	3	0.0	4	0.1	3	0.0	1	0.0
Carpiodes sp.	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	1	0.1	8	0.3	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	6	0.3	14	0.5	38	0.7	58	1.2	49	0.7	26	0.2	25	0.3	34	0.4	24	0.3	18	0.3	21	0.3	22	0.4	13	0.2	16	0.3
BIGMOUTH BUFFALO	--	--	--	--	2	0.0	1	0.0	4	0.1	2	0.0	--	--	1	0.0	3	0.0	--	--	1	0.0	2	0.0	3	0.0	--	--
BLACK BUFFALO	--	--	2	0.1	3	0.1	1	0.0	--	--	2	0.0	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	0.0	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	1	0.0	1	0.0	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--
SILVER REDHORSE	2	0.1	3	0.1	--	--	1	0.0	--	--	3	0.0	2	0.0	2	0.0	--	--	2	0.0	1	0.0	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	--	--	1	0.0	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	4	0.2	18	0.6	1	0.0	4	0.1	17	0.3	2	0.0	46	0.5	22	0.2	60	0.7	28	0.5	32	0.5	14	0.2	5	0.1	5	0.1
SHORthead REDHORSE	25	1.3	18	0.6	11	0.2	5	0.1	4	0.1	2	0.0	5	0.1	3	0.0	6	0.1	13	0.2	4	0.1	2	0.0	--	--	2	0.0
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	2	0.0	--	--														

TABLE 14 (cont.)

DOWNSTREAM I-55 (cont.)																												
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
NORTHERN SUNFISH	2	0.1	--	--	3	0.1	12	0.2	3	0.0	13	0.1	14	0.1	31	0.3	56	0.7	61	1.0	31	0.5	10	0.2	8	0.1	33	0.7
Lepomis HYBRID	2	0.1	--	--	31	0.6	12	0.2	24	0.4	54	0.4	44	0.5	28	0.3	39	0.5	57	1.0	24	0.4	16	0.3	26	0.3	31	0.7
Lepomis sp.	88	4.6	111	3.8	3	0.1	28	0.6	8	0.1	449	3.0	21	0.2	38	0.4	178	2.2	100	1.7	29	0.5	293	5.0	606	8.0	161	3.4
SMALLMOUTH BASS	15	0.8	22	0.7	19	0.4	19	0.4	31	0.5	12	0.1	18	0.2	27	0.3	50	0.6	44	0.7	34	0.6	28	0.5	3	0.0	5	0.1
LARGEMOUTH BASS	49	2.5	529	17.9	241	4.5	113	2.3	187	2.8	192	1.3	384	3.9	278	3.1	271	3.3	462	7.8	598	9.8	358	6.1	146	1.9	344	7.3
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE CRAPPIE	6	0.3	--	--	5	0.1	--	--	2	0.0	--	--	1	0.0	2	0.0	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	1	0.0	9	0.2	1	0.0	9	0.1	3	0.0	2	0.0	7	0.1	4	0.0	3	0.1	3	0.0	1	0.0	1	0.0	--	--
JOHNNY DARTER	2	0.1	2	0.1	--	--	--	--	--	--	--	--	--	--	--	--	4	0.0	3	0.1	1	0.0	9	0.2	4	0.1	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	0.0	--	--	--	--	--	--	--	--
LOGPERCH	1	0.1	4	0.1	7	0.1	10	0.2	12	0.2	26	0.2	17	0.2	46	0.5	55	0.7	96	1.6	70	1.1	55	0.9	3	0.0	10	0.2
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	3	0.0	--	--	1	0.0	2	0.0	10	0.2	2	0.0	2	0.0	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	2	0.0	--	--	1	0.0	1	0.0	1	0.0	1	0.0	1	0.0	3	0.1	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	0.0	--	--	--	--
FRESHWATER DRUM	48	2.5	32	1.1	25	0.5	38	0.8	31	0.5	23	0.2	22	0.2	19	0.2	14	0.2	39	0.7	18	0.3	13	0.2	8	0.1	12	0.3
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	13	0.1	3	0.0	--	--	7	0.1	25	0.4	23	0.4	5	0.1	--	--	1	0.0
TOTAL FISH	1,923	100.0	2,956	100.0	5,299	100.0	4,954	100.0	6,647	100.0	15,027	100.0	9,769	100.0	9,065	100.0	8,249	100.0	5,911	100.0	6,127	100.0	5,909	100.0	7,556	100.0	4,718	100.0
CATCH PER GEAR EFFORT	80		114		83		77		104		235		153		142		129		92		96		92		120		74	
TOTAL SPECIES	36		38		44		41		45		50		44		45		51		47		45		38		38		40	

(a) 2010 RESULTS FOR LOWER LOCKPORT POOL WERE LIKELY AFFECTED BY THE ROTENONE APPLICATION THAT OCCURRED IN DECEMBER 2009.
NOTE: DATA COMPARED ARE FROM ELECTROFISHING AND SEINING DURING THE PERIOD OF MAY-SEPTEMBER AT THE SAME LOCATIONS, EXCEPT THAT LOCATION 302B WAS SUBSTITUTED FOR LOCATION 302C IN LOWER LOCKPORT POOL BEGINNING IN 2001 AND LOCATION 405 IN THE UPSTREAM I-55 SEGMENT WAS NOT SAMPLED IN 2000. DATA FROM THE FOLLOWING LOCATIONS (AND YEARS) ARE EXCLUDED: LOCATION 308 IN BRANDON POOL (1994, 1995, AND 2000), LOCATION 404A IN THE UPSTREAM I-55 SEGMENT (2001, 2002, AND 2005-2013), AND LOCATION 409 IN THE DOWNSTREAM I-55 SEGMENT (1994 AND 1995).
0.0 DENOTES VALUES LESS THAN 0.05.

Table 15. Comparisons of Catch per Gear Effort, Total Number of Species, and the Collective Abundance of Emerald shiner, Gizzard shad, and Highly Tolerant Species among Four Segments of the Upper Illinois Waterway, 1994, 1995, 2000-2002, and 2005-2013.

Catch per Gear Effort				
Year	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55
2013	29	33	60	74
2012	80	73	90	120
2011	30	60	75	92
2010	37	52	86	96
2009	34	48	86	92
2008	44	57	92	129
2007	45	62	112	142
2006	26	45	98	153
2005	44	42	130	235
2002	82	61	79	104
2001	60	32	75	77
2000	16	36	44	83
1995	11	77	42	114
1994	4	24	46	80
Total Number of Species				
Year	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55
2013	23	34	54	40
2012	23	37	50	38
2011	25	37	55	38
2010	27	41	56	45
2009	20	42	55	47
2008	21	41	52	51
2007	20	43	56	45
2006	20	33	49	44
2005	17	34	47	50
2002	28	40	55	45
2001	22	33	55	41
2000	16	29	45	44
1995	13	20	36	38
1994	12	17	36	36
Collective Abundance (%) of Emerald shiner, Gizzard shad, & Highly Tolerants				
Year	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55
2013	50	57	49	28
2012	68	57	51	26
2011	92	66	53	36
2010	91	73	53	47
2009	78	62	60	44
2008	86	76	60	40
2007	92	84	69	59
2006	88	80	68	54
2005	96	87	74	51
2002	95	92	72	46
2001	96	89	69	53
2000	89	84	60	42
1995	57	98	71	52
1994	84	97	76	70

Note: 2010 results for lower Lockport Pool were likely affected by the rotenone application that occurred in December 2009.

TABLE 16. CPE AND RELATIVE ABUNDANCE OF NATIVE FISH COLLECTED ELECTROFISHING WITHIN FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, MAY-SEPTEMBER 1994, 1995, 2000-2002, AND 2005-2013.

SPECIES	1994								1995							
	L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM		L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM	
	POOL	POOL	POOL	POOL	I-55	I-55	I-55	I-55	POOL	POOL	POOL	POOL	I-55	I-55	I-55	I-55
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.3
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	0.1	0.2	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	0.1	0.5	0.1	0.2	0.3	0.2	--	--	0.1	0.1	--	--	--	--
GIZZARD SHAD	0.2	9.1	0.9	4.3	6.6	13.8	102.5	60.7	5.5	25.0	7.7	8.7	17.0	30.8	28.6	25.7
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDDMINNOW	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.3	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	0.2	9.1	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	0.5	27.3	0.2	1.1	3.2	6.8	7.2	4.2	3.5	15.9	2.8	3.1	2.2	4.0	0.9	0.8
GHOST SHINER	--	--	--	--	--	--	0.2	0.1	--	--	--	--	--	--	0.1	0.1
STRIPED SHINER	--	--	0.1	0.5	0.3	0.7	0.2	0.1	--	--	--	--	--	--	0.1	0.1
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	0.3	1.6	1.0	2.1	0.7	0.4	--	--	--	--	1.6	3.0	2.3	2.1
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	0.2	0.5	0.2	0.1	--	--	--	--	0.5	0.8	0.6	0.5
SAND SHINER	--	--	--	--	--	--	--	--	--	--	0.2	0.3	0.1	0.2	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.4	0.7	0.1	0.1
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	0.3	18.2	3.9	18.9	8.8	18.4	4.0	2.4	0.3	1.5	67.6	76.3	7.0	12.7	12.3	11.1
FATHEAD MINNOW	0.2	9.1	--	--	--	--	--	--	0.2	0.8	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	2.2	1.3	--	--	--	--	0.3	0.5	1.0	0.9
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	0.9	1.9	0.7	0.4	--	--	--	--	0.6	1.2	1.4	1.3
QUILLBACK	--	--	--	--	0.4	0.9	1.0	0.6	--	--	--	--	0.6	1.2	1.4	1.3
WHITE SUCKER	--	--	5.9	28.6	0.2	0.5	0.2	0.1	--	--	1.1	1.3	1.1	2.0	1.1	1.0
SMALLMOUTH BUFFALO	--	--	--	--	2.1	4.4	1.0	0.6	--	--	--	--	2.6	4.8	2.0	1.8
BIGMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.3	--	--
BLACK BUFFALO	--	--	--	--	0.4	0.9	--	--	--	--	--	--	--	--	0.3	0.3
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	0.1	0.5	--	--	0.3	0.2	--	--	--	--	--	--	0.4	0.4
RIVER REDHORSE	--	--	--	--	0.1	0.2	--	--	--	--	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	0.2	0.5	0.7	0.4	--	--	--	--	0.2	0.3	2.6	2.3
SHORthead REDHORSE	--	--	--	--	0.3	0.7	4.2	2.5	--	--	--	--	0.6	1.2	2.6	2.3
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	0.1	0.2	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	0.1	0.5	0.1	0.2	0.5	0.3	--	--	--	--	0.1	0.2	--	--
YELLOW BULLHEAD	--	--	1.0	4.9	0.1	0.2	0.3	0.2	--	--	1.0	1.1	0.1	0.2	--	--
CHANNEL CATFISH	--	--	1.0	4.9	2.7	5.6	0.5	0.3	0.2	0.8	0.2	0.3	2.5	4.4	1.0	0.9
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPED TOPMINNOW	--	--	--	--	0.1	0.2	--	--	--	--	0.1	0.1	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	0.1	0.2	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	0.2	0.8	1.1	1.3	0.1	0.2	0.3	0.3
Morone sp.	--	--	--	--	--	--	0.3	0.2	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	0.2	9.1	6.3	30.8	11.3	23.8	11.0	6.5	1.0	4.5	3.2	3.6	7.5	13.5	2.3	2.1
PUMPKINSEED	--	--	--	--	--	--	0.5	0.3	--	--	--	--	--	--	0.1	0.1
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	0.3	0.7	13.2	7.8	--	--	--	--	0.5	1.0	16.3	14.7
BLUEGILL	0.2	9.1	--	--	1.0	2.1	5.0	3.0	--	--	0.4	0.5	2.7	4.9	6.7	6.0
NORTHERN SUNFISH	--	--	--	--	0.4	0.9	0.3	0.2	0.2	0.8	--	--	--	--	--	--
Lepomis HYBRID	0.2	9.1	--	--	0.2	0.5	0.3	0.2	--	--	--	--	0.3	0.5	--	--
Lepomis sp.	--	--	--	--	--	--	0.5	0.3	--	--	--	--	--	--	14.3	12.9
SMALLMOUTH BASS	--	--	--	--	0.8	1.6	1.8	1.1	0.2	0.8	--	--	0.6	1.2	2.6	2.3
LARGEMOUTH BASS	--	--	--	--	2.2	4.7	1.2	0.7	10.7	48.5	2.4	2.8	3.4	6.1	4.0	3.6
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	0.1	0.5	--	--	--	--	0.2	0.8	--	--	--	--	0.1	0.1
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.6	0.5
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	0.4	2.2	3.0	6.3	8.0	4.7	--	--	0.4	0.5	2.3	4.1	4.6	4.1
TOTAL FISH	1.8	100.0	20.6	100.0	47.7	100.0	168.8	100.0	22.0	100.0	88.6	100.0	55.2	100.0	111.1	100.0
TOTAL SPECIES	7		14		28		28		11		15		26		30	

TABLE 16 (cont.)

SPECIES	2000								2001							
	L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM		L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM	
	POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	0.4	0.3	--	--	--	--	--	--	0.5	0.3	0.1	0.1
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	0.1	0.0	0.1	0.0	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
SKIPJACK HERRING	--	--	0.0	0.0	0.1	0.0	--	--	0.1	0.1	0.4	0.5	0.3	0.2	0.4	0.2
GIZZARD SHAD	24.9	75.7	20.0	22.1	27.0	23.0	62.3	23.3	100.6	74.1	28.0	35.3	65.1	39.7	84.9	42.7
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	0.3	0.9	0.8	0.8	0.1	0.0	--	--	0.1	0.0	0.1	0.1	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
GOLDEN SHINER	--	--	0.7	0.7	--	--	0.3	0.1	--	--	0.0	0.1	0.0	0.0	0.2	0.1
PALLID SHINER	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
EMERALD SHINER	3.1	9.4	7.3	8.1	7.7	6.5	1.8	0.7	10.2	7.5	17.6	22.2	11.4	6.9	9.2	4.6
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.1	0.0
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	0.4	0.3	5.8	2.2	0.2	0.1	0.1	0.2	4.5	2.7	2.4	1.2
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1.0	3.0	0.5	0.6	1.3	1.1	1.5	0.6	0.4	0.3	0.5	0.7	1.4	0.9	2.1	1.1
SAND SHINER	--	--	0.1	0.1	0.4	0.3	--	--	--	--	0.0	0.1	0.2	0.1	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	0.4	1.3	20.1	22.2	6.2	5.3	26.7	10.0	15.1	11.1	16.4	20.7	20.9	12.7	19.1	9.6
FATHEAD MINNOW	--	--	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	0.6	0.5	11.2	4.2	0.1	0.0	--	--	3.8	2.3	12.9	6.5
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	0.6	0.5	0.7	0.3	--	--	--	--	0.3	0.2	0.8	0.4
QUILLBACK	--	--	--	--	0.6	0.5	0.3	0.1	--	--	--	--	0.2	0.1	0.8	0.4
WHITE SUCKER	--	--	0.1	0.1	0.1	0.0	0.1	0.0	--	--	1.4	1.7	0.1	0.1	--	--
SMALLMOUTH BUFFALO	--	--	--	--	2.4	2.1	2.4	0.9	--	--	--	--	2.5	1.5	3.2	1.6
BIGMOUTH BUFFALO	--	--	--	--	0.2	0.1	0.1	0.0	--	--	--	--	0.1	0.1	0.1	0.0
BLACK BUFFALO	--	--	--	--	0.1	0.1	0.2	0.1	--	--	--	--	0.1	0.1	0.1	0.0
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.1	0.0
SILVER REDHORSE	--	--	--	--	0.1	0.0	--	--	--	--	--	--	0.0	0.0	0.1	0.0
RIVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	0.1	0.0	0.1	0.0	--	--	--	--	--	--	0.3	0.1
SHORTHEAD REDHORSE	--	--	--	--	0.6	0.5	0.7	0.3	--	--	0.1	0.2	0.2	0.1	0.3	0.1
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	0.8	0.9	0.5	0.4	0.9	0.3	--	--	0.7	0.8	0.0	0.0	0.3	0.2
CHANNEL CATFISH	0.3	0.9	2.0	2.2	3.6	3.1	2.0	0.7	1.3	0.9	2.4	3.0	3.5	2.1	1.9	1.0
Ameiurus sp.	--	--	0.0	0.0	--	--	--	--	--	--	--	--	0.0	0.0	--	--
TADPOLE MADTOM	--	--	0.0	0.0	--	--	0.2	0.1	--	--	0.1	0.2	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	0.1	0.1	--	--	--	--	0.0	0.1	0.0	0.0	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	0.1	0.2	0.8	0.9	0.3	0.2	0.2	0.1	--	--	--	--	0.1	0.1	0.1	0.0
BROOK SILVERSIDE	--	--	--	--	--	--	0.1	0.0	0.1	0.0	--	--	--	--	0.4	0.2
WHITE BASS	--	--	0.2	0.2	0.2	0.2	0.1	0.0	0.1	0.0	0.1	0.2	0.2	0.1	--	--
YELLOW BASS	--	--	0.2	0.2	0.1	0.1	0.1	0.0	--	--	0.3	0.4	0.1	0.1	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	0.2	0.1	--	--	--	--	--	--	0.1	0.1	0.1	0.0
GREEN SUNFISH	0.9	2.8	31.5	34.9	24.5	20.9	28.9	10.8	4.7	3.4	8.3	10.5	16.9	10.3	7.0	3.5
PUMPKINSEED	0.1	0.4	--	--	--	--	0.1	0.0	0.2	0.1	--	--	--	--	--	--
WARMOUTH	--	--	--	--	--	--	0.1	0.0	--	--	0.0	0.1	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	0.5	0.6	1.5	1.2	14.5	5.4	--	--	0.0	0.1	0.1	0.1	6.9	3.5
BLUEGILL	0.2	0.8	2.0	2.3	19.0	16.2	86.4	32.4	1.2	0.9	1.1	1.4	18.2	11.1	33.9	17.0
NORTHERN SUNFISH	--	--	0.0	0.0	1.3	1.1	0.2	0.1	0.1	0.0	--	--	0.8	0.5	0.6	0.3
Lepomis HYBRID	--	--	0.2	0.2	4.9	4.2	1.9	0.7	0.1	0.0	--	--	2.1	1.3	0.7	0.3
Lepomis sp.	--	--	--	--	--	--	0.1	0.0	--	--	--	--	0.1	0.1	--	--
SMALLMOUTH BASS	--	--	0.0	0.0	0.4	0.3	1.1	0.4	0.1	0.0	--	--	1.0	0.6	0.9	0.5
LARGEMOUTH BASS	1.5	4.5	1.8	2.0	7.2	6.2	13.7	5.1	1.4	1.0	0.3	0.4	5.4	3.3	6.4	3.2
WHITE CRAPPIE	--	--	--	--	0.1	0.1	0.3	0.1	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	0.2	0.2	0.5	0.2	--	--	--	--	0.1	0.1	0.1	0.0
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	0.1	0.0	--	--	--	--	0.3	0.3	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	0.1	0.1	0.1	0.0	--	--	--	--	0.0	0.0	0.3	0.2
BLACKSIDE DARTER	--	--	0.0	0.0	--	--	--	--	--	--	--	--	0.0	0.0	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	0.5	0.5	4.6	3.9	1.6	0.6	0.1	0.0	0.8	1.0	3.0	1.8	2.4	1.2
TOTAL FISH	32.9	100.0	90.3	100.0	117.0	100.0	267.0	100.0	135.9	100.0	79.2	100.0	164.0	100.0	199.0	100.0
TOTAL SPECIES	11		23		38		36		19		25		43		33	

TABLE 16 (cont.)

SPECIES	2002								2005							
	L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM		L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM	
	POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	0.3	0.2	0.4	0.1	--	--	--	--	0.2	0.1	0.3	0.1
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	0.2	0.1	0.3	0.1	0.2	0.1	--	--	0.1	0.1	0.0	0.0	0.1	0.0
GIZZARD SHAD	153.0	80.5	75.9	46.2	71.8	33.0	89.8	26.6	71.2	88.5	42.2	60.2	92.5	51.0	144.5	35.8
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	0.3	0.1
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	0.9	0.5	0.0	0.0	0.2	0.1	0.4	0.1	--	--	0.0	0.1	0.1	0.0	0.8	0.2
PALLID SHINER	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	0.1	0.0
EMERALD SHINER	10.8	5.7	24.7	15.0	34.5	15.9	31.9	9.4	1.2	1.5	6.0	8.6	4.8	2.6	19.1	4.7
GHOST SHINER	--	--	--	--	0.1	0.1	0.1	0.0	--	--	--	--	--	--	0.1	0.0
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0	0.4	0.1
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	0.1	0.0	0.2	0.1	2.4	1.1	2.4	0.7	--	--	0.2	0.3	0.7	0.4	2.3	0.6
RED SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1.2	0.6	0.4	0.3	2.5	1.2	1.5	0.4	0.1	0.2	0.4	0.6	2.8	1.5	2.8	0.7
SAND SHINER	0.1	0.0	--	--	0.5	0.2	0.1	0.0	--	--	--	--	0.0	0.0	--	--
REDFIN SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	10.3	5.4	29.0	17.7	15.0	6.9	18.1	5.4	4.0	5.0	10.0	14.3	18.4	10.1	42.0	10.4
FATHEAD MINNOW	0.4	0.2	0.2	0.1	--	--	--	--	--	--	--	--	0.0	0.0	0.1	0.0
BULLHEAD MINNOW	--	--	0.0	0.0	0.0	0.0	5.4	1.6	--	--	--	--	0.3	0.2	7.9	1.9
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	0.5	0.2	0.4	0.1	--	--	--	--	0.1	0.1	1.0	0.2
QUILLBACK	--	--	--	--	0.2	0.1	0.3	0.1	--	--	--	--	--	--	0.8	0.2
WHITE SUCKER	0.1	0.0	0.6	0.4	0.1	0.0	--	--	--	--	0.5	0.7	--	--	--	--
SMALLMOUTH BUFFALO	--	--	0.0	0.0	2.9	1.3	3.1	0.9	--	--	0.2	0.2	3.0	1.7	1.6	0.4
BIGMOUTH BUFFALO	--	--	--	--	0.1	0.1	0.3	0.1	--	--	--	--	--	--	0.1	0.0
BLACK BUFFALO	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	0.1	0.0
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	0.0	0.0	--	--	0.1	0.0	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	0.1	0.1	--	--	--	--	0.1	0.1	--	--	0.2	0.0
RIVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	0.3	0.1	0.9	0.3	--	--	--	--	0.0	0.0	0.1	0.0
SHORTHEAD REDHORSE	--	--	--	--	0.2	0.1	0.3	0.1	--	--	--	--	0.0	0.0	0.1	0.0
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	0.2	0.1	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.3	0.1	1.0	0.6	0.8	0.4	0.6	0.2	0.2	0.2	0.8	1.1	0.3	0.2	--	--
CHANNEL CATFISH	1.4	0.7	3.7	2.2	3.9	1.8	3.2	0.9	0.6	0.8	2.4	3.4	4.2	2.3	1.9	0.5
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	0.1	0.0	0.1	0.1	--	--	--	--	--	--	--	--	0.0	0.0	0.1	0.0
FLATHEAD CATFISH	--	--	0.0	0.0	0.1	0.0	--	--	--	--	--	--	0.2	0.1	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.0	0.1	0.0
BROOK SILVERSIDE	--	--	--	--	0.1	0.0	0.9	0.3	--	--	--	--	0.0	0.0	2.1	0.5
WHITE BASS	--	--	--	--	0.5	0.2	0.1	0.0	--	--	0.0	0.1	0.1	0.1	--	--
YELLOW BASS	--	--	0.1	0.1	--	--	0.1	0.0	--	--	0.0	0.1	0.0	0.0	0.1	0.0
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	0.1	0.0	--	--	--	--	0.0	0.1	0.1	0.1	0.3	0.1
GREEN SUNFISH	7.0	3.7	23.6	14.4	31.4	14.5	25.0	7.4	0.8	1.0	4.0	5.8	15.3	8.4	25.4	6.3
PUMPKINSEED	0.6	0.3	0.1	0.1	--	--	0.3	0.1	--	--	--	--	0.1	0.1	0.1	0.0
WARMOUTH	0.1	0.0	--	--	--	--	0.1	0.0	--	--	--	--	--	--	0.1	0.0
ORANGESPOTTED SUNFISH	0.2	0.1	0.3	0.2	0.5	0.2	36.6	10.8	--	--	0.2	0.3	0.2	0.1	14.6	3.6
BLUEGILL	1.6	0.9	1.4	0.9	26.9	12.4	98.5	29.2	0.4	0.5	0.7	1.0	23.5	13.0	116.9	28.9
NORTHERN SUNFISH	--	--	--	--	1.0	0.5	0.1	0.0	--	--	--	--	0.2	0.1	0.5	0.1
Lepomis HYBRID	0.1	0.1	0.3	0.2	4.1	1.9	1.2	0.4	0.1	0.1	0.3	0.4	5.8	3.2	2.6	0.7
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0	0.1	0.0
SMALLMOUTH BASS	0.1	0.0	0.2	0.1	2.4	1.1	1.5	0.4	--	--	0.1	0.1	0.7	0.4	0.4	0.1
LARGEMOUTH BASS	1.1	0.6	0.5	0.3	8.8	4.0	10.6	3.1	1.4	1.8	0.5	0.7	5.1	2.8	11.9	2.9
WHITE CRAPPIE	0.1	0.1	0.1	0.1	0.0	0.0	0.1	0.0	--	--	--	--	--	--	--	--
BLACK CRAPPIE	0.1	0.0	0.0	0.0	0.3	0.1	0.3	0.1	--	--	0.0	0.1	--	--	0.2	0.0
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	0.1	0.0	0.6	0.2	--	--	--	--	0.1	0.0	0.7	0.2
BLACKSIDE DARTER	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	0.0	0.0	0.1	0.0	--	--	--	--	--	--	0.1	0.0
SAUGER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	--	--
FRESHWATER DRUM	0.2	0.1	1.3	0.8	3.6	1.7	1.9	0.6	0.3	0.4	1.0	1.5	2.1	1.1	1.4	0.4
TOTAL FISH	189.9	100.0	164.2	100.0	217.3	100.0	337.4	100.0	80.4	100.0	70.0	100.0	181.5	100.0	404.2	100.0
TOTAL SPECIES	24		34		44		39		11		24		34		40	

TABLE 16 (cont.)

SPECIES	2006								2007							
	L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM		L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM	
	POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	0.7	0.5	0.1	0.0	--	--	0.0	0.0	0.5	0.2	0.5	0.2
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	0.1	0.1	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
GIZZARD SHAD	39.2	68.5	21.3	25.4	28.8	19.8	95.4	26.6	58.9	62.4	52.6	36.8	56.3	25.6	68.1	21.5
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	0.3	0.2	0.0	0.0	--	--
NORTHERN PIKE	0.1	0.1	--	--	--	--	--	--	--	--	0.1	0.1	0.0	0.0	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	0.2	0.1	0.1	0.0	0.1	0.0
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	0.1	0.1	0.3	0.2	0.1	0.0	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.0
PALLID SHINER	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	0.1	0.0
EMERALD SHINER	3.6	6.2	27.0	32.4	10.8	7.4	22.2	6.2	8.0	8.5	23.2	16.2	10.9	5.0	3.3	1.0
GHOST SHINER	--	--	--	--	0.2	0.1	1.4	0.4	--	--	0.1	0.1	0.2	0.1	0.6	0.2
STRIPED SHINER	--	--	--	--	0.6	0.4	0.4	0.1	--	--	--	--	1.4	0.6	0.1	0.0
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
SPOTTAIL SHINER	0.1	0.1	--	--	0.3	0.2	1.8	0.5	--	--	1.0	0.7	3.2	1.5	5.4	1.7
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	0.9	1.1	2.8	1.9	2.9	0.8	0.4	0.5	1.1	0.8	4.7	2.1	2.8	0.9
SAND SHINER	--	--	--	--	--	--	--	--	--	--	0.3	0.2	0.1	0.0	0.2	0.1
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	5.2	9.1	18.2	21.8	25.4	17.5	35.9	10.0	14.2	15.0	47.7	33.4	62.2	28.3	82.0	26.0
FATHEAD MINNOW	0.1	0.1	0.0	0.0	0.1	0.1	--	--	--	--	0.0	0.0	--	--	--	--
BULLHEAD MINNOW	--	--	0.1	0.1	0.0	0.0	8.9	2.5	--	--	0.0	0.0	0.5	0.2	4.7	1.5
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	0.1	0.1	0.4	0.1	--	--	--	--	0.1	0.0	0.9	0.3
QUILLBACK	--	--	--	--	0.2	0.1	0.3	0.1	--	--	--	--	0.3	0.1	0.1	0.0
WHITE SUCKER	--	--	0.2	0.2	--	--	--	--	--	--	0.1	0.1	0.0	0.0	--	--
SMALLMOUTH BUFFALO	--	--	0.1	0.1	2.4	1.7	1.5	0.4	--	--	0.0	0.0	2.4	1.1	1.8	0.6
BIGMOUTH BUFFALO	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	0.1	0.0
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.1
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
SILVER REDHORSE	--	--	--	--	0.3	0.2	0.1	0.0	--	--	--	--	--	--	0.1	0.0
RIVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	0.1	0.1	2.9	0.8	--	--	--	--	0.2	0.1	1.3	0.4
SHORTHEAD REDHORSE	--	--	--	--	0.0	0.0	0.3	0.1	--	--	--	--	0.1	0.1	0.2	0.1
GREATHER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	0.2	0.1	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.1	0.1	0.8	0.9	0.3	0.2	0.2	0.1	0.3	0.3	0.6	0.4	0.6	0.3	0.1	0.0
CHANNEL CATFISH	0.8	1.4	2.5	3.0	6.2	4.3	2.2	0.6	0.7	0.7	2.1	1.5	5.7	2.6	1.5	0.5
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	0.0	0.0	0.3	0.1	--	--	0.1	0.1	0.0	0.0	0.1	0.0
FLATHEAD CATFISH	--	--	--	--	0.1	0.1	--	--	--	--	--	--	0.1	0.0	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	0.1	0.1	0.6	0.4	0.2	0.1	--	--	--	--	1.0	0.5	0.4	0.1
BROOK SILVERSIDE	--	--	--	--	0.2	0.1	2.3	0.6	--	--	--	--	0.2	0.1	1.3	0.4
WHITE BASS	--	--	--	--	0.1	0.1	--	--	--	--	--	--	0.0	0.0	0.1	0.0
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.0	0.0	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	0.0	0.0	0.0	0.0	0.4	0.1	--	--	0.0	0.0	0.1	0.1	0.2	0.1
GREEN SUNFISH	1.9	3.4	4.6	5.5	16.0	11.0	20.3	5.6	5.3	5.6	6.6	4.6	20.8	9.5	24.1	7.6
PUMPKINSEED	3.4	6.0	1.8	2.1	0.7	0.5	0.1	0.0	1.2	1.3	0.7	0.5	0.4	0.2	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	0.1	0.1	0.3	0.3	0.9	0.6	20.3	5.6	0.1	0.1	0.1	0.1	1.8	0.8	12.6	4.0
BLUEGILL	0.4	0.7	1.8	2.2	26.7	18.4	108.9	30.4	1.4	1.5	1.3	0.9	25.1	11.4	79.1	25.0
NORTHERN SUNFISH	--	--	--	--	0.5	0.3	0.6	0.2	0.4	0.5	0.1	0.1	0.8	0.4	1.3	0.4
Lepomis HYBRID	0.2	0.3	0.7	0.8	9.3	6.4	2.3	0.7	1.6	1.7	0.9	0.6	6.0	2.7	1.5	0.5
Lepomis sp.	--	--	--	--	--	--	0.9	0.2	--	--	0.1	0.1	0.9	0.4	0.4	0.1
SMALLMOUTH BASS	0.1	0.1	0.0	0.0	0.5	0.3	1.1	0.3	0.3	0.3	0.2	0.1	2.5	1.1	1.6	0.5
LARGEMOUTH BASS	1.7	3.0	1.5	1.7	8.1	5.6	21.5	6.0	1.2	1.3	1.5	1.0	7.0	3.2	15.4	4.9
WHITE CRAPPIE	--	--	--	--	0.0	0.0	0.1	0.0	--	--	--	--	--	--	0.1	0.0
BLACK CRAPPIE	--	--	--	--	0.1	0.1	0.1	0.0	--	--	0.1	0.1	0.3	0.1	0.1	0.0
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
JOHNNY DARTER	--	--	0.1	0.1	--	--	--	--	--	--	0.4	0.3	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	0.9	0.2	--	--	--	--	0.1	0.1	2.3	0.7
BLACKSIDE DARTER	--	--	0.0	0.0	--	--	--	--	--	--	0.1	0.1	0.0	0.0	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0
SAUGER	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	0.4	0.7	1.4	1.6	2.0	1.3	1.4	0.4	0.3	0.3	0.7	0.5	2.6	1.2	1.2	0.4
TOTAL FISH	57.2	100.0	83.5	100.0	145.3	100.0	358.6	100.0	94.3	100.0	142.9	100.0	219.7	100.0	315.9	100.0
TOTAL SPECIES	16		22		36		35		15		34		44		38	

TABLE 16 (cont.)

SPECIES	2008								2009							
	L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM		L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM	
	POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	0.0	0.0	1.0	0.5	0.4	0.1	--	--	0.1	0.2	1.1	0.5	0.2	0.1
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	0.1	0.1	--	--	0.3	0.2	0.1	0.0	--	--	--	--	--	--	--	--
GIZZARD SHAD	58.3	58.0	52.0	39.1	38.7	18.8	64.4	18.1	24.4	31.4	20.8	25.1	26.9	12.6	17.6	7.0
Dorosoma sp.	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	0.1	0.1	--	--	--	--	--	--
GRASS PICKEREL	--	--	0.3	0.2	0.0	0.0	0.1	0.0	--	--	0.3	0.3	0.0	0.0	0.9	0.4
NORTHERN PIKE	--	--	0.6	0.4	0.3	0.1	--	--	--	--	0.3	0.4	0.0	0.0	--	--
CENTRAL STONEROLLER	--	--	0.0	0.0	0.3	0.1	0.1	0.0	--	--	--	--	0.9	0.4	0.3	0.1
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	0.1	0.1	0.7	0.3	0.9	0.3	0.2	0.3	--	--	0.2	0.1	1.3	0.5
PALLID SHINER	--	--	--	--	--	--	0.1	0.0	--	--	--	--	0.0	0.0	--	--
EMERALD SHINER	2.8	2.8	18.2	13.6	6.1	3.0	3.3	0.9	8.3	10.6	8.0	9.6	6.3	3.0	1.4	0.5
GHOST SHINER	--	--	--	--	0.0	0.0	0.6	0.2	--	--	0.1	0.1	2.3	1.1	--	--
STRIPED SHINER	--	--	--	--	0.4	0.2	0.3	0.1	--	--	--	--	0.4	0.2	0.1	0.0
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	0.0	0.0	2.0	1.0	6.4	1.8	--	--	--	--	3.3	1.5	2.9	1.1
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1.0	1.0	1.5	1.1	4.8	2.3	3.0	0.8	0.4	0.5	1.3	1.6	5.0	2.3	2.4	1.0
SAND SHINER	--	--	0.0	0.0	0.3	0.1	--	--	--	--	0.1	0.1	1.0	0.4	--	--
REDFIN SHINER	--	--	--	--	0.1	0.1	--	--	--	--	--	--	0.5	0.2	--	--
MIMIC SHINER	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	0.1	0.1	--	--	--	--	--	--	0.1	0.0	--	--
BLUNTNOST MINNOW	20.7	20.6	36.4	27.3	46.2	22.4	47.6	13.4	24.1	30.9	20.6	24.9	69.0	32.3	58.5	23.4
FATHEAD MINNOW	--	--	0.0	0.0	0.0	0.0	0.3	0.1	--	--	0.3	0.4	0.2	0.1	0.1	0.0
BULLHEAD MINNOW	--	--	--	--	0.2	0.1	10.4	2.9	--	--	--	--	0.1	0.1	0.3	0.1
Pimephales sp.	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	0.2	0.1	0.6	0.2	--	--	--	--	0.1	0.0	0.5	0.2
QUILLBACK	--	--	--	--	0.2	0.1	0.3	0.1	--	--	--	--	0.1	0.1	0.6	0.2
WHITE SUCKER	--	--	0.1	0.1	--	--	--	--	--	--	1.3	1.5	0.1	0.0	--	--
SMALLMOUTH BUFFALO	--	--	0.0	0.0	1.9	0.9	1.4	0.4	--	--	--	--	2.5	1.2	1.1	0.4
BIGMOUTH BUFFALO	--	--	--	--	--	--	0.2	0.1	--	--	--	--	--	--	--	--
BLACK BUFFALO	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	0.1	0.0
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.0
RIVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	1.0	0.5	3.6	1.0	--	--	--	--	0.5	0.2	1.8	0.7
SHORTHEAD REDHORSE	--	--	--	--	0.2	0.1	0.1	0.0	--	--	--	--	0.0	0.0	0.8	0.3
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	0.2	0.2	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.2	0.2	1.0	0.8	0.7	0.3	0.3	0.1	0.3	0.4	1.0	1.2	0.5	0.2	0.6	0.2
CHANNEL CATFISH	0.3	0.3	2.3	1.7	5.7	2.8	1.8	0.5	0.8	1.1	2.1	2.6	6.8	3.2	1.3	0.5
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	0.2	0.2	0.1	0.1	0.5	0.1	--	--	0.0	0.1	--	--	0.3	0.1
FLATHEAD CATFISH	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	0.1	0.1	0.3	0.2	3.4	1.6	0.4	0.1	--	--	0.1	0.2	0.6	0.3	0.5	0.2
BROOK SILVERSIDE	--	--	0.0	0.0	0.2	0.1	3.2	0.9	--	--	--	--	0.1	0.1	5.4	2.1
WHITE BASS	0.1	0.1	0.0	0.0	0.2	0.1	--	--	--	--	--	--	0.0	0.0	--	--
YELLOW BASS	--	--	0.1	0.1	0.1	0.0	0.4	0.1	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	0.1	0.1	0.2	0.1	0.6	0.2	--	--	0.0	0.1	0.2	0.1	1.8	0.7
GREEN SUNFISH	5.3	5.3	9.0	6.8	29.3	14.2	21.9	6.2	9.2	11.8	15.8	19.0	29.4	13.8	19.9	8.0
PUMPKINSEED	4.3	4.3	2.2	1.7	2.7	1.3	0.1	0.0	5.0	6.4	1.3	1.6	0.6	0.3	0.3	0.1
WARMOUTH	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	0.1	0.0
ORANGESPOTTED SUNFISH	--	--	0.1	0.1	2.6	1.3	32.8	9.2	0.1	0.1	0.1	0.1	2.4	1.1	21.4	8.5
BLUEGILL	2.8	2.8	3.3	2.5	33.7	16.4	115.6	32.5	1.8	2.3	2.4	2.9	20.9	9.8	65.1	26.0
NORTHERN SUNFISH	--	--	--	--	1.0	0.5	3.1	0.9	--	--	--	--	1.0	0.5	3.4	1.3
Lepomis HYBRID	1.4	1.4	0.3	0.2	6.7	3.2	2.3	0.6	0.9	1.2	0.3	0.3	9.6	4.5	3.6	1.4
Lepomis sp.	--	--	0.1	0.1	0.4	0.2	5.2	1.5	--	--	--	--	0.5	0.2	3.0	1.2
SMALLMOUTH BASS	0.1	0.1	0.7	0.5	3.0	1.5	2.8	0.8	--	--	1.0	1.2	5.1	2.4	2.5	1.0
LARGEMOUTH BASS	2.6	2.6	2.5	1.9	8.2	4.0	16.3	4.6	2.3	2.9	3.7	4.5	12.0	5.6	21.9	8.7
WHITE CRAPPIE	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	0.1	0.1	0.1	0.1	0.2	0.1	--	--	0.0	0.1	--	--	0.2	0.1
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	0.1	0.1	--	--	0.1	0.0	--	--	0.0	0.1	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.1	0.0
LOGPERCH	--	--	--	--	0.0	0.0	2.8	0.8	0.1	0.1	0.0	0.1	0.2	0.1	5.4	2.1
BLACKSIDE DARTER	--	--	0.2	0.1	0.3	0.1	0.1	0.0	--	--	0.1	0.1	0.3	0.1	0.4	0.1
SLENDERHEAD DARTER	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	0.2	0.1
SAUGER	--	--	0.2	0.1	--	--	--	--	--	--	0.4	0.5	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
FRESHWATER DRUM	0.4	0.4	0.9	0.7	2.1	1.0	0.9	0.2	0.1	0.1	0.9	1.1	2.4	1.1	2.4	1.0
TOTAL FISH	100.4	100.0	133.2	100.0	205.9	100.0	355.6	100.0	77.9	100.0	82.7	100.0	213.7	100.0	250.3	100.0
TOTAL SPECIES	15		34		43		43		15		31		43		39	

TABLE 16 (cont.)

SPECIES	2010 ^(a)								2011							
	L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM		L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM	
	POOL	POOL	POOL	POOL	I-55	I-55	I-55	I-55	POOL	POOL	POOL	POOL	I-55	I-55	I-55	I-55
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	0.0	0.0	1.3	0.7	0.6	0.2	0.1	0.1	--	--	1.1	0.6	0.6	0.2
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
GAR sp.	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	0.1	0.1	--	--	--	--	--	--	--	--	0.0	0.0	0.1	0.0	--	--
GIZZARD SHAD	56.6	66.4	57.3	49.1	39.0	22.1	54.3	20.8	50.4	72.8	80.3	63.2	50.2	26.7	84.5	32.5
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	0.3	0.3	0.1	0.1	--	--	--	--	0.1	0.1	0.3	0.2	--	--	0.1	0.0
GRASS PICKEREL	--	--	0.1	0.1	--	--	0.2	0.1	0.1	0.1	0.3	0.2	0.1	0.0	0.3	0.1
NORTHERN PIKE	--	--	0.1	0.1	0.1	0.1	--	--	--	--	0.1	0.1	0.1	0.0	--	--
CENTRAL STONEROLLER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	0.0	0.0	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	0.1	0.1	--	--	0.5	0.3	0.7	0.3	--	--	0.0	0.0	0.3	0.2	0.6	0.2
PALLID SHINER	--	--	--	--	0.1	0.0	0.1	0.0	--	--	--	--	--	--	--	--
EMERALD SHINER	3.1	3.7	7.4	6.4	5.4	3.1	0.6	0.2	0.1	0.1	2.5	2.0	2.3	1.2	--	--
GHOST SHINER	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	0.1	0.1	0.1	0.0	--	--	--	--	0.3	0.1	0.2	0.1
COMMON SHINER	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	0.1	0.1	0.8	0.7	0.9	0.5	3.1	1.2	--	--	0.4	0.3	0.3	0.2	0.9	0.4
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	0.3	0.3	1.0	0.9	1.3	0.8	1.9	0.7	0.1	0.2	0.8	0.6	1.7	0.9	0.7	0.3
SAND SHINER	--	--	0.2	0.1	0.0	0.0	--	--	--	--	--	--	--	--	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--
BLUNTNOST MINNOW	14.8	17.4	14.5	12.5	30.2	17.1	41.1	15.7	3.8	5.4	6.8	5.3	15.2	8.1	7.9	3.1
FATHEAD MINNOW	0.1	0.1	--	--	--	--	--	--	0.1	0.1	0.0	0.0	0.0	0.0	--	--
BULLHEAD MINNOW	0.1	0.1	--	--	0.0	0.0	1.6	0.6	--	--	--	--	--	--	0.9	0.3
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	0.1	0.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	0.2	0.1	0.2	0.1	--	--	--	--	0.2	0.1	--	--
QUILLBACK	--	--	--	--	0.5	0.3	0.2	0.1	--	--	--	--	0.3	0.2	0.3	0.1
WHITE SUCKER	--	--	2.5	2.1	--	--	--	--	--	--	1.2	0.9	0.1	0.0	--	--
SMALLMOUTH BUFFALO	--	--	--	--	2.3	1.3	1.3	0.5	--	--	--	--	1.7	0.9	1.2	0.5
BIGMOUTH BUFFALO	--	--	--	--	0.0	0.0	0.1	0.0	--	--	--	--	--	--	0.1	0.0
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	0.0	0.0	0.1	0.0	--	--	--	--	0.1	0.1	--	--	--	--
SILVER REDHORSE	--	--	--	--	0.2	0.1	0.1	0.0	--	--	--	--	0.1	0.1	--	--
RIVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	0.7	0.4	2.0	0.8	--	--	--	--	0.6	0.3	0.8	0.3
SHORTHEAD REDHORSE	--	--	--	--	0.1	0.1	0.3	0.1	--	--	--	--	0.1	0.0	0.1	0.0
GREATER REDHORSE	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.1	0.1	1.0	0.9	0.4	0.2	0.3	0.1	0.2	0.3	1.2	1.0	0.5	0.3	0.3	0.1
CHANNEL CATFISH	0.4	0.4	1.1	0.9	4.7	2.7	1.5	0.6	0.4	0.6	1.5	1.2	5.3	2.8	1.3	0.5
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	0.3	0.3	0.0	0.0	0.5	0.2	--	--	0.2	0.2	0.0	0.0	0.3	0.1
FLATHEAD CATFISH	--	--	--	--	0.0	0.0	0.1	0.0	--	--	--	--	0.0	0.0	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	0.1	0.1	0.1	0.1	0.8	0.5	1.6	0.6	--	--	1.0	0.8	0.3	0.2	0.6	0.2
BROOK SILVERSIDE	--	--	--	--	0.2	0.1	1.4	0.5	0.1	0.1	--	--	0.1	0.0	4.7	1.8
WHITE BASS	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	0.3	0.3	0.6	0.5	0.3	0.2	0.1	0.0	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--
ROCK BASS	--	--	0.0	0.0	0.5	0.3	2.0	0.8	--	--	--	--	0.2	0.1	1.6	0.6
GREEN SUNFISH	6.1	7.1	18.5	15.9	25.9	14.7	20.0	7.6	10.9	15.8	17.2	13.5	39.4	21.0	15.6	6.0
PUMPKINSEED	0.4	0.4	0.3	0.3	0.8	0.4	--	--	0.3	0.5	0.4	0.3	1.0	0.6	0.1	0.0
WARMOUTH	--	--	--	--	--	--	--	--	0.1	0.1	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	0.5	0.5	3.3	1.9	37.3	14.2	0.1	0.1	0.7	0.6	2.9	1.5	10.4	4.0
BLUEGILL	0.4	0.4	4.2	3.6	28.5	16.1	50.3	19.2	0.9	1.3	8.0	6.3	41.3	22.0	97.5	37.5
NORTHERN SUNFISH	--	--	--	--	0.8	0.4	1.4	0.5	0.1	0.1	0.0	0.0	0.6	0.3	0.6	0.2
Lepomis HYBRID	--	--	0.2	0.1	7.8	4.4	1.5	0.6	0.1	0.2	0.1	0.1	5.5	3.0	0.9	0.4
Lepomis sp.	--	--	--	--	0.0	0.0	0.7	0.3	--	--	0.4	0.3	2.3	1.2	3.0	1.2
SMALLMOUTH BASS	--	--	0.4	0.3	2.4	1.3	1.2	0.5	--	--	0.6	0.5	1.5	0.8	1.6	0.6
LARGEMOUTH BASS	1.8	2.1	4.3	3.6	13.4	7.6	28.3	10.8	1.4	2.0	1.8	1.4	9.7	5.1	18.3	7.0
WHITE CRAPPIE	0.1	0.1	--	--	--	--	--	--	--	--	0.1	0.1	--	--	--	--
BLACK CRAPPIE	0.1	0.1	0.0	0.0	0.1	0.1	0.2	0.1	--	--	0.0	0.0	0.0	0.0	0.1	0.0
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	0.0	0.0	--	--	0.1	0.0	--	--	0.2	0.1	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	0.1	0.1	--	--	0.0	0.0	--	--
LOGPERCH	--	--	0.0	0.0	0.3	0.1	3.8	1.4	--	--	0.1	0.1	0.1	0.1	2.9	1.1
BLACKSIDE DARTER	--	--	0.3	0.3	0.0	0.0	0.1	0.0	--	--	0.4	0.3	0.0	0.0	0.1	0.0
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--	--	--
WALLEYE	--	--	--	--	0.0	0.0	--	--	--	--	--	--	0.0	0.0	0.1	0.0
FRESHWATER DRUM	0.1	0.1	0.5	0.4	2.5	1.4	1.1	0.4	0.1	0.1	0.5	0.4	1.8	1.0	0.8	0.3
TOTAL FISH	85.3	100.0	116.6	100.0	176.2	100.0	261.5	100.0	69.3	100.0	127.2	100.0	187.8	100.0	259.8	100.0
TOTAL SPECIES	22		31		44		38		20		31		43		33	

TABLE 16 (cont.)

SPECIES	2012								2013							
	L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM		L. LOCKPORT		BRANDON		UPSTREAM		DOWNSTREAM	
	POOL	POOL	POOL	POOL	I-55	I-55	I-55	I-55	POOL	POOL	POOL	POOL	I-55	I-55	I-55	I-55
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0
LONGNOSE GAR	0.1	0.0	--	--	1.2	0.6	0.1	0.0	0.1	0.2	--	--	1.0	0.7	0.1	0.0
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	60.4	39.4	72.8	48.3	49.5	24.4	41.5	15.8	13.3	19.7	25.1	35.8	29.5	20.1	18.8	9.0
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	0.1	0.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	0.0	0.0	--	--	--	--	--	--	0.0	0.0	--	--
NORTHERN PIKE	--	--	--	--	0.0	0.0	--	--	--	--	0.0	0.1	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	1.6	1.0	0.2	0.1	0.7	0.3	1.6	0.6	0.3	0.4	0.1	0.2	0.1	0.1	0.2	0.1
PALLID SHINER	--	--	--	--	0.1	0.0	--	--	--	--	--	--	--	--	0.1	0.0
EMERALD SHINER	3.1	2.0	1.8	1.2	2.3	1.1	0.3	0.1	0.7	1.0	1.0	1.4	1.2	0.8	0.1	0.1
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
STRIPED SHINER	--	--	--	--	0.3	0.1	--	--	--	--	--	--	0.0	0.0	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	0.5	0.3	0.6	0.2	--	--	--	--	0.1	0.1	0.4	0.2
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
SPOTFIN SHINER	1.4	0.9	0.7	0.5	2.6	1.3	0.7	0.3	0.3	0.4	0.2	0.3	1.0	0.7	0.6	0.3
SAND SHINER	--	--	0.1	0.1	0.2	0.1	0.1	0.0	--	--	--	--	--	--	--	--
REDFIN SHINER	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	0.1	0.1	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	17.6	11.5	18.9	12.6	22.9	11.3	10.9	4.1	8.8	13.1	11.0	15.7	18.2	12.4	12.2	5.8
FATHEAD MINNOW	0.4	0.3	0.0	0.0	0.0	0.0	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	0.2	0.1	1.5	0.6	--	--	--	--	0.0	0.0	0.8	0.4
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	0.1	0.1	0.1	0.0	--	--	--	--	0.4	0.3	0.3	0.1
QUILLBACK	--	--	--	--	0.3	0.1	0.2	0.1	--	--	--	--	0.1	0.1	0.1	0.0
WHITE SUCKER	--	--	0.4	0.2	0.0	0.0	--	--	--	--	0.4	0.5	0.0	0.0	--	--
SMALLMOUTH BUFFALO	--	--	--	--	2.3	1.1	0.8	0.3	--	--	--	--	1.6	1.1	1.0	0.5
BIGMOUTH BUFFALO	--	--	--	--	0.0	0.0	0.2	0.1	--	--	--	--	--	--	--	--
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	0.2	0.1	--	--	--	--	--	--	0.0	0.0	--	--
RIVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	0.1	0.0	0.3	0.1	--	--	--	--	0.0	0.0	0.3	0.1
SHORthead REDHORSE	--	--	--	--	0.3	0.1	--	--	--	--	--	--	0.3	0.2	0.1	0.1
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.2	0.1	1.2	0.8	0.3	0.1	0.6	0.2	0.3	0.5	1.9	2.7	0.8	0.5	0.6	0.3
CHANNEL CATFISH	0.1	1.3	0.9	2.1	1.0	0.9	0.3	0.8	1.2	1.6	2.3	4.0	2.7	1.1	0.5	0.5
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	0.4	0.2	0.0	0.0	0.1	0.0	--	--	0.2	0.2	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	0.0	0.0	--	--	--	--	--	--	0.1	0.1	0.1	0.0
BANDED KILLIFISH	0.1	0.0	--	--	--	--	--	--	0.2	0.3	0.0	0.1	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	0.7	0.4	1.5	0.7	0.3	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1
BROOK SILVERSIDE	--	--	--	--	0.3	0.2	0.5	0.2	--	--	--	--	0.1	0.1	0.1	0.1
WHITE BASS	--	--	--	--	0.2	0.1	--	--	--	--	0.0	0.1	0.2	0.1	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	0.3	0.1
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	0.3	0.2	0.2	0.1	0.6	0.2	--	--	0.3	0.4	0.4	0.3	0.3	0.1
GREEN SUNFISH	41.1	26.8	18.6	12.3	37.1	18.3	22.4	8.5	11.4	17.0	6.1	8.7	15.5	10.5	16.2	7.8
PUMPKINSEED	10.7	7.0	8.9	5.9	4.7	2.3	0.8	0.3	13.1	19.5	4.0	5.7	3.2	2.2	1.8	0.9
WARMOUTH	0.1	0.0	0.0	0.0	--	--	--	--	0.1	0.1	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	0.7	0.4	4.5	2.2	17.3	6.6	0.1	0.1	1.5	2.1	0.3	0.2	3.8	1.8
BLUEGILL	14.5	9.5	20.8	13.8	50.9	25.1	140.4	53.4	14.1	20.9	9.5	13.6	43.8	29.9	124.3	59.5
NORTHERN SUNFISH	--	--	--	--	0.8	0.4	0.3	0.1	0.1	0.2	0.1	0.1	1.7	1.2	1.4	0.7
Lepomis HYBRID	0.4	0.3	0.1	0.1	5.7	2.8	1.5	0.6	0.1	0.2	0.4	0.6	7.6	5.2	1.9	0.9
Lepomis sp.	--	--	0.6	0.4	0.9	0.4	8.3	3.1	0.1	0.1	0.1	0.1	0.3	0.2	2.3	1.1
SMALLMOUTH BASS	--	--	0.5	0.3	1.3	0.6	0.1	0.0	--	--	2.0	2.9	0.6	0.4	0.3	0.1
LARGEMOUTH BASS	1.6	1.0	0.8	0.6	7.2	3.5	9.3	3.5	3.3	4.9	3.4	4.9	11.7	8.0	18.0	8.6
WHITE CRAPPIE	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	0.1	0.0	--	--	--	--	0.1	0.1	--	--
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	0.0	0.0	--	--	--	--	--	--	0.0	0.1	0.0	0.0	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--
LOGPERCH	--	--	--	--	0.1	0.0	0.1	0.0	--	--	0.1	0.2	0.0	0.0	0.6	0.3
BLACKSIDE DARTER	--	--	0.4	0.3	--	--	--	--	--	--	0.1	0.2	0.2	0.1	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	0.3	0.2	1.2	0.6	0.5	0.2	0.2	0.3	0.7	1.0	1.8	1.2	0.8	0.4
TOTAL FISH	153.3	100.0	150.5	100.0	203.1	100.0	263.0	100.0	67.3	100.0	70.1	100.0	146.7	100.0	208.8	100.0
TOTAL SPECIES	16		26		42		30		18		26		41		31	

(a) 2010 RESULTS FOR LOWER LOCKPORT POOL WERE LIKELY AFFECTED BY THE ROTENONE APPLICATION THAT OCCURRED IN DECEMBER 2009.
NOTE: 0.0 DENOTES VALUES LESS THAN 0.05.

Table 17. Segment vs. Segment Comparisons of Mean Electrofishing Catch Parameters, May-September 1994, 1995, 2000-2002, and 2005-2013.

Year and Parameter ^(a)	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55	Significant Difference ^(b)	F Value	P Value
2013							
CPEs-All Native Species	67.3 B	70.1 B	146.7 A	208.8 A ^(c)	Yes	18.25	<0.01
CPEs-w/o Tolerants & G. Shad	33.3 C	25.5 C	82.6 B	160.9 A	Yes	31.38	<0.01
IWBmod	3.64 C	4.82 B	6.78 A	6.35 A	Yes	26.08	<0.01
Native Species Richness	4 C	7 B	9 A	8 A	Yes	23.01	<0.01
2012							
CPEs-All Native Species	153.3 B	150.5 B	203.1 A	263.0 A	Yes	6.02	<0.01
CPEs-w/o Tolerants & G. Shad	32.0 C	38.5 C	92.5 B	185.9 A	Yes	25.54	<0.01
IWBmod	3.66 C	4.60 B	6.40 A	6.36 A	Yes	22.86	<0.01
Native Species Richness	5 C	6 B	9 A	9 A	Yes	16.77	<0.01
2011							
CPEs-All Native Species	69.3 C	127.2 B	187.8 A	259.8 A	Yes	22.39	<0.01
CPEs-w/o Tolerants & G. Shad	3.8 D	20.2 C	82.0 B	150.8 A	Yes	103.92	<0.01
IWBmod	2.47 C	4.26 B	6.68 A	6.76 A	Yes	40.83	<0.01
Native Species Richness	3 C	6 B	10 A	10 A	Yes	42.58	<0.01
2010^(d)							
CPEs-All Native Species	85.3 D	116.6 C	176.2 B	261.5 A	Yes	17.10	<0.01
CPEs-w/o Tolerants & G. Shad	7.3 D	22.7 C	80.3 B	145.1 A	Yes	72.62	<0.01
IWBmod	2.84 C	4.29 B	6.86 A	7.13 A	Yes	52.56	<0.01
Native Species Richness	3 C	6 B	10 A	12 A	Yes	52.84	<0.01
2009							
CPEs-All Native Species	77.9 B	82.7 B	213.7 A	250.3 A	Yes	25.13	<0.01
CPEs-w/o Tolerants & G. Shad	19.7 C	23.0 C	87.4 B	152.3 A	Yes	61.27	<0.01
IWBmod	3.67 C	4.65 B	6.95 A	7.23 A	Yes	32.20	<0.01
Native Species Richness	5 C	7 B	11 A	12 A	Yes	40.88	<0.01

Table 17 (cont.)

Year and Parameter ^(a)	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55	Significant Difference ^(b)	F Value	P Value
2008							
CPEs-All Native Species	100.4 B	133.2 B	205.9 A	355.6 A	Yes	14.03	<0.01
CPEs-w/o Tolerants & G. Shad	15.9 D	34.5 C	90.4 B	220.1 A	Yes	49.52	<0.01
IWBmod	3.64 C	4.60 B	7.00 A	7.35 A	Yes	25.10	<0.01
Native Species Richness ^(e)	4 C	7 B	11 A	13 A	Yes	46.73	<0.01
2007							
CPEs-All Native Species	94.3 B	142.9 B	219.7 A	315.9 A	Yes	12.60	<0.01
CPEs-w/o Tolerants & G. Shad	15.4 C	35.1 B	79.5 A	141.6 A	Yes	37.30	<0.01
IWBmod	3.37 C	4.30 B	6.78 A	6.89 A	Yes	28.64	<0.01
Native Species Richness	4 C	6 B	11 A	11 A	Yes	42.76	<0.01
2006							
CPEs-All Native Species	57.2 C	83.5 C	145.3 B	358.6 A	Yes	27.08	<0.01
CPEs-w/o Tolerants & G. Shad	10.8 D	38.4 C	74.6 B	206.8 A	Yes	54.93	<0.01
IWBmod	3.09 C	4.11 B	6.66 A	7.42 A	Yes	34.29	<0.01
Native Species Richness	4 D	6 C	9 B	12 A	Yes	42.70	<0.01
2005							
CPEs-All Native Species	80.4 C	70.0 C	181.5 B	404.2 A	Yes	24.35	<0.01
CPEs-w/o Tolerants & G. Shad	4.3 D	12.4 C	54.8 B	191.4 A	Yes	82.53	<0.01
IWBmod	2.48 C	3.64 B	6.27 A	6.86 A	Yes	39.61	<0.01
Native Species Richness	2 D	4 C	8 B	11 A	Yes	60.81	<0.01
2002							
CPEs-All Native Species	189.9 B	164.2 B	217.3 A	337.4 A	Yes	8.16	<0.01
CPEs-w/o Tolerants & G. Shad	18.1 C	33.9 C	98.0 B	203.6 A	Yes	39.05	<0.01
IWBmod	4.06 B	4.66 B	6.73 A	7.16 A	Yes	27.28	<0.01
Native Species Richness	5 C	6 B	10 A	11 A	Yes	32.48	<0.01

Table 17 (cont.)

Year and Parameter ^(a)	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55	Significant Difference ^(b)	F Value	P Value
2001							
CPEs-All Native Species	135.9 B	79.2 B	164.0 A	199.0 A	Yes	9.84	<0.01
CPEs-w/o Tolerants & G. Shad	15.4 B	24.4 B	60.9 A	87.5 A	Yes	33.57	<0.01
IWBmod	3.10 C	3.86 B	6.52 A	6.77 A	Yes	39.18	<0.01
Native Species Richness	3 C	5 B	10 A	11 A	Yes	55.79	<0.01
2000							
CPEs-All Native Species	32.9 C	90.3 B	117.0 B	267.0 A	Yes	45.12	<0.01
CPEs-w/o Tolerants & G. Shad	6.6 D	17.1 C	58.9 B	147.8 A	Yes	73.46	<0.01
IWBmod	2.10 C	4.06 B	6.67 A	7.21 A	Yes	85.46	<0.01
Native Species Richness	2 C	6 B	10 A	10 A	Yes	72.19	<0.01
1995							
CPEs-All Native Species	22.0 C	88.6 B	55.2 AB	111.1 A	Yes	11.02	<0.01
CPEs-w/o Tolerants & G. Shad	15.0 C	7.9 C	22.5 B	66.7 A	Yes	13.84	<0.01
IWBmod	1.71 C	3.23 B	5.54 A	6.89 A	Yes	18.81	<0.01
Native Species Richness	2 C	3 B	7 A	11 A	Yes	26.46	<0.01
1994							
CPEs-All Native Species	1.8 D	20.6 C	47.7 B	168.8 A	Yes	33.67	<0.01
CPEs-w/o Tolerants & G. Shad	0.8 D	2.6 C	20.7 B	50.8 A	Yes	61.93	<0.01
IWBmod	0.47 C	1.72 B	5.53 A	5.98 A	Yes	45.40	<0.01
Native Species Richness	1 C	3 B	7 A	9 A	Yes	41.75	<0.01

(a) All data (except as noted) log transformed for statistical analyses because they are not normally distributed.

(b) Results of one-factor parametric Analysis of Variance tests (alpha=0.05).

(c) Results of Duncan's Multiple Range Test; values with the same letters are not significantly different (alpha=0.05).

(d) 2010 results for lower Lockport Pool were likely affected by the rotenone application that occurred in December 2009.

(e) Raw data are normally distributed.

TABLE 18. CPE AND RELATIVE ABUNDANCE OF NATIVE FISH COLLECTED SEINING WITHIN FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, MAY-SEPTEMBER 1994, 1995, 2000-2002, AND 2005-2013.

SPECIES	1994								1995							
	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.2	0.3	0.2
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	2.4	9.6	2.3	3.7	9.2	13.7	--	--	1.1	0.9	0.3	0.8	0.2	0.1
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	0.2	0.3	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	0.2	0.3	1.1	1.6	--	--	0.3	0.2	--	--	0.1	0.0
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	3.9	15.6	6.7	10.5	11.3	16.9	--	--	--	--	0.9	2.2	1.5	0.9
GHOST SHINER	--	--	--	--	0.3	0.4	0.1	0.1	--	--	--	--	--	--	0.1	0.0
STRIPED SHINER	--	--	--	--	1.3	2.1	0.2	0.2	--	--	--	--	0.1	0.2	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	8.7	13.6	7.3	11.0	--	--	--	--	6.3	14.7	5.4	3.1
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	0.3	50.0	--	--	--	--	0.9	1.4	--	--	--	--	0.3	0.6	0.8	0.4
SAND SHINER	--	--	--	--	1.3	2.1	--	--	--	--	--	--	0.6	1.4	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0
MIMIC SHINER	--	--	--	--	0.8	1.2	--	--	--	--	--	--	--	--	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	0.2	0.7	--	--	--	--	--	--	--	--	0.1	0.2	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	--	18.2	72.2	39.4	61.9	18.8	28.1	--	--	113.5	98.0	27.6	64.9	95.3	54.2
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	0.7	0.6	0.3	0.6	--	--
BULLHEAD MINNOW	--	--	--	--	0.2	0.3	3.7	5.5	--	--	--	--	0.3	0.6	15.5	8.8
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.2	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpiodes sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	0.4	1.7	0.5	0.8	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.2	--	--
CHANNEL CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	0.7	1.0	0.1	0.1	--	--	0.2	0.1	0.1	0.2	0.3	0.1
BROOK SILVERSIDE	--	--	--	--	--	--	1.2	1.7	--	--	--	--	--	--	1.9	1.1
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--
PUMPKINSEED	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	1.3	1.9	--	--	--	--	0.1	0.2	3.5	2.0
BLUEGILL	0.3	50.0	--	--	0.2	0.3	0.2	0.2	--	--	0.1	0.1	0.5	1.2	7.8	4.4
NORTHERN SUNFISH	--	--	--	--	0.1	0.1	--	--	--	--	--	--	0.1	0.2	--	--
Lepomis HYBRID	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	0.1	0.3	--	--	7.1	10.6	--	--	--	--	--	--	0.9	0.5
SMALLMOUTH BASS	--	--	--	--	0.3	0.4	0.3	0.5	--	--	--	--	0.3	0.6	0.3	0.2
LARGEMOUTH BASS	--	--	--	--	0.7	1.0	3.5	5.2	--	--	--	--	0.5	1.2	41.8	23.7
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.7	1.6	--	--
WHITE CRAPPIE	--	--	--	--	--	--	0.5	0.7	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.2	--	--
JOHNNY DARTER	--	--	--	--	--	--	0.2	0.2	--	--	--	--	3.4	8.0	0.2	0.1
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	0.7	100.0	25.2	100.0	63.7	100.0	66.9	100.0	0.0	0.0	115.8	100.0	42.5	100.0	175.8	100.0
CPEs LESS HIGHLY TOLERANTS & G. SHAD	0.7		4.2		21.2		37.8		0.0		0.3		14.2		80.3	
TOTAL SPECIES	2		5		18		18		0		7		20		18	
MEAN NO. SPECIES	1		2		5		5		0		1		4		5	

TABLE 18 (cont.)

SPECIES	2000								2001							
	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	0.0	0.4	0.1	0.3	--	--	--	--	--	--	0.0	0.1
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	0.0	0.1	--	--	--	--	--	--	0.0	0.1
GIZZARD SHAD	0.4	7.7	1.0	9.1	0.1	1.3	0.1	0.5	0.6	3.1	6.0	52.3	1.3	2.5	1.6	3.4
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	0.3	2.6	0.0	0.4	--	--	--	--	0.0	0.3	0.0	0.1	0.1	0.2
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	0.5	0.9	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
GOLDEN SHINER	--	--	0.9	8.2	0.0	0.4	0.1	0.3	--	--	0.0	0.3	0.0	0.1	0.2	0.4
PALLID SHINER	--	--	--	--	--	--	0.0	0.1	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	2.1	19.7	0.8	8.4	0.4	1.6	1.9	9.3	2.0	17.8	4.0	7.7	2.3	4.6
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.6	1.2	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	0.3	2.5	5.5	21.9	--	--	--	--	10.6	20.4	1.0	2.1
RED SHINER	--	--	--	--	--	--	0.0	0.1	--	--	--	--	0.0	0.1	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	1.3	12.4	0.1	1.3	0.7	2.6	--	--	0.3	2.5	1.5	2.8	0.5	1.0
SAND SHINER	--	--	--	--	0.1	0.8	--	--	--	--	0.1	0.5	0.7	1.4	0.1	0.1
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	3.8	76.9	2.5	23.8	5.8	58.4	4.8	19.0	17.6	87.0	2.2	19.2	25.8	49.3	12.8	26.3
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
BULLHEAD MINNOW	--	--	--	--	0.0	0.4	1.8	7.0	--	--	--	--	1.2	2.2	1.0	2.1
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	0.1	0.5	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpoides sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	0.1	0.5	0.0	0.1	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.5
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHORthead REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.2	0.0	0.1
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	0.1	0.6	0.1	0.8	0.0	0.1	--	--	0.1	1.1	--	--	--	--
CHANNEL CATFISH	--	--	0.0	0.3	0.0	0.4	--	--	--	--	--	--	0.1	0.2	0.1	0.1
TADPOLE MADTOM	--	--	0.2	1.5	--	--	--	--	0.1	0.6	0.0	0.3	0.0	0.1	0.0	0.1
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	0.8	7.9	0.3	2.5	0.4	1.5	--	--	0.3	2.2	0.2	0.4	0.1	0.1
BROOK SILVERSIDE	--	--	--	--	0.0	0.4	0.0	0.1	--	--	--	--	0.0	0.1	0.0	0.1
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	0.1	0.5	--	--	--	--	0.1	0.1	0.0	0.1
GREEN SUNFISH	0.1	2.6	0.1	0.6	0.1	0.8	0.1	0.3	--	--	0.1	1.1	0.0	0.1	0.1	0.2
PUMPKINSEED	0.1	2.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	0.0	0.3	--	--	0.5	2.0	--	--	--	--	--	--	0.8	1.5
BLUEGILL	--	--	1.1	10.0	1.0	10.1	9.4	37.8	--	--	0.1	1.1	4.6	8.9	25.9	53.5
NORTHERN SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.4	0.1	0.2
Lepomis HYBRID	--	--	--	--	--	--	0.0	0.1	--	--	--	--	0.0	0.1	0.0	0.1
Lepomis sp.	--	--	--	--	--	--	0.0	0.1	--	--	--	--	--	--	0.9	1.8
SMALLMOUTH BASS	--	--	--	--	--	--	0.0	0.1	--	--	--	--	0.1	0.1	0.1	0.3
LARGEMOUTH BASS	0.5	10.3	0.3	2.9	1.0	10.5	0.7	2.8	--	--	--	--	0.1	0.2	0.3	0.6
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE CRAPPIE	--	--	--	--	--	--	0.0	0.1	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	0.0	0.1	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	0.0	0.3	--	--	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	0.2	0.6	--	--	--	--	--	--	0.2	0.3
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	0.1	0.3	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
TOTAL FISH	4.9	100.0	10.6	100.0	9.9	100.0	25.0	100.0	20.3	100.0	11.4	100.0	52.3	100.0	48.4	100.0
CPEs LESS HIGHLY TOLERANTS & G. SHAD	0.6		6.1		3.8		20.0		2.0		2.8		25.0		33.8	
TOTAL SPECIES	5		14		17		24		4		15		30		25	
MEAN NO. SPECIES	1		2		3		5		1		2		4		5	

TABLE 18 (cont.)

SPECIES	2002								2005							
	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	0.0	0.2	--	--	0.0	0.1	--	--	--	--	--	--	--	--
GIZZARD SHAD	10.4	68.6	7.9	40.0	1.0	3.7	2.3	6.6	13.3	28.1	10.5	23.5	59.2	32.9	2.9	1.1
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.1	--	--
HORNHEAD CHUB	--	--	--	--	0.0	0.1	--	--	--	--	--	--	0.1	0.1	--	--
GOLDEN SHINER	--	--	0.1	0.3	0.0	0.1	0.1	0.2	--	--	0.1	0.3	0.1	0.0	1.5	0.6
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
EMERALD SHINER	1.0	6.6	4.8	23.9	4.7	18.0	0.5	1.5	0.6	1.3	1.4	3.1	6.3	3.5	12.1	4.6
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.2	0.1
STRIPED SHINER	--	--	--	--	1.2	4.5	0.1	0.3	--	--	--	--	2.8	1.5	1.4	0.5
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	0.0	0.2	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	0.8	3.3	1.2	3.3	--	--	0.1	0.3	1.0	0.5	2.4	0.9
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	0.1	0.8	0.2	0.9	0.9	3.6	1.8	5.0	--	--	1.9	4.2	4.5	2.5	4.9	1.9
SAND SHINER	--	--	0.2	0.8	0.9	3.5	--	--	--	--	0.0	0.1	0.6	0.3	2.1	0.8
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	0.0	0.0
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0	0.1	0.0
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
BLUNTNOSE MINNOW	3.3	21.5	4.6	23.1	12.1	46.5	8.3	23.4	31.3	66.3	28.0	62.6	69.2	38.5	104.2	39.6
FATHEAD MINNOW	0.3	1.7	0.2	0.9	--	--	--	--	0.1	0.3	0.1	0.1	0.5	0.3	0.1	0.0
BULLHEAD MINNOW	--	--	0.0	0.2	0.2	0.7	0.3	0.9	--	--	0.0	0.1	8.9	5.0	9.3	3.5
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.1
Carpoides sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
WHITE SUCKER	--	--	0.1	0.5	--	--	--	--	--	--	0.8	1.7	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	0.0	0.1	--	--	--	--	--	--	--	--	0.0	0.0
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	0.1	0.2	--	--	--	--	--	--	--	--
SHORthead REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0
ICTIOBINAE sp.	--	--	--	--	0.0	0.1	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	0.4	1.9	--	--	--	--	--	--	0.1	0.1	0.0	0.0	--	--
CHANNEL CATFISH	--	--	0.1	0.3	0.1	0.5	0.0	0.1	--	--	0.0	0.1	0.2	0.1	0.2	0.1
TADPOLE MADTOM	--	--	--	--	0.1	0.2	--	--	--	--	0.0	0.1	0.2	0.1	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	0.3	1.6	0.2	0.7	0.2	0.5	--	--	0.6	1.3	1.5	0.8	1.4	0.5
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--	1.3	0.7	2.8	1.1
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	0.1	0.4	0.0	0.1	--	--	0.0	0.1	--	--	--	--
GREEN SUNFISH	--	--	0.3	1.4	0.2	0.8	0.2	0.5	0.1	0.3	0.2	0.4	0.2	0.1	0.0	0.0
PUMPKINSEED	--	--	--	--	--	--	0.0	0.1	--	--	0.1	0.3	--	--	0.0	0.0
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	0.1	0.6	0.0	0.1	4.2	11.9	--	--	0.1	0.2	0.3	0.2	2.3	0.9
BLUEGILL	0.1	0.8	0.3	1.4	2.7	10.5	14.7	41.4	0.4	0.8	0.5	1.1	17.9	9.9	99.6	37.8
NORTHERN SUNFISH	--	--	--	--	0.0	0.1	0.0	0.1	--	--	--	--	0.3	0.2	0.2	0.1
Lepomis HYBRID	--	--	--	--	0.1	0.2	0.2	0.4	1.1	2.4	--	--	0.5	0.3	0.4	0.1
Lepomis sp.	--	--	--	--	--	--	0.3	0.7	0.3	0.5	0.1	0.3	3.3	1.9	14.0	5.3
SMALLMOUTH BASS	--	--	--	--	0.2	0.7	0.2	0.6	--	--	--	--	0.2	0.1	0.2	0.1
LARGEMOUTH BASS	--	--	0.3	1.7	0.3	1.1	0.6	1.6	--	--	0.0	0.1	0.1	0.1	0.1	0.0
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	0.1	0.2	0.1	0.4	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	0.0	0.1	0.1	0.2	--	--	--	--	0.2	0.1	0.5	0.2
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.0	0.1	0.0
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	15.1	100.0	19.8	100.0	25.9	100.0	35.5	100.0	47.1	100.0	44.7	100.0	179.8	100.0	263.4	100.0
CPEs LESS HIGHLY TOLERANTS & G. SHAD	1.3		6.3		12.7		24.6		2.4		5.0		50.6		154.6	
TOTAL SPECIES	6		18		23		22		6		20		30		30	
MEAN NO. SPECIES	1		2		4		4		2		3		6		8	

TABLE 18 (cont.)

SPECIES	2006								2007							
	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	0.3	3.2	0.1	0.3	1.5	1.2	1.7	1.3	21.4	75.7	1.5	5.0	5.1	4.8	7.3	6.0
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	0.0	0.1	--	--	--	--	--	--	0.2	0.7	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	0.0	0.1	0.1	0.0	--	--	--	--	--	--	0.1	0.1	--	--
HORNHEAD CHUB	--	--	--	--	0.5	0.4	--	--	--	--	--	--	0.0	0.0	0.0	0.0
GOLDEN SHINER	--	--	0.0	0.1	--	--	0.3	0.3	--	--	0.0	0.1	0.0	0.0	--	--
PALLID SHINER	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--
EMERALD SHINER	0.3	3.2	8.5	22.5	10.9	8.5	3.2	2.5	0.8	2.7	6.0	20.3	8.8	8.3	5.2	4.2
GHOST SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	0.0	0.0	--	--
STRIPED SHINER	--	--	--	--	4.3	3.4	0.8	0.7	--	--	0.0	0.1	4.8	4.6	0.3	0.2
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
SPOTTAIL SHINER	0.1	1.6	--	--	3.3	2.6	3.1	2.5	--	--	0.1	0.2	5.7	5.4	9.4	7.7
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	1.3	3.3	3.4	2.7	5.5	4.4	--	--	1.2	3.9	4.3	4.0	3.0	2.5
SAND SHINER	--	--	0.0	0.1	0.7	0.5	0.0	0.0	--	--	0.0	0.1	0.6	0.6	0.1	0.1
REDFIN SHINER	--	--	--	--	0.1	0.0	--	--	--	--	--	--	0.1	0.1	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
BLUNTNOSE MINNOW	7.1	90.5	23.0	60.7	89.6	70.1	72.1	57.7	5.6	19.9	15.1	51.3	58.9	55.5	64.6	52.8
FATHEAD MINNOW	--	--	0.3	0.7	0.0	0.0	0.0	0.0	--	--	0.0	0.1	0.1	0.1	--	--
BULLHEAD MINNOW	--	--	0.0	0.1	0.2	0.1	2.4	2.0	--	--	--	--	0.7	0.6	1.7	1.4
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
Carpoides sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	0.0	0.0	--	--	--	--	0.0	0.0	0.2	0.1
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.0	0.0
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.1	0.1
SHORthead REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.0	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	0.0	0.0	--	--	0.1	0.2	0.1	0.1	0.5	0.4
YELLOW BULLHEAD	--	--	0.1	0.2	0.1	0.1	--	--	--	--	0.1	0.3	0.1	0.1	--	--
CHANNEL CATFISH	--	--	--	--	0.1	0.0	--	--	--	--	--	--	0.0	0.0	--	--
TADPOLE MADTOM	--	--	0.2	0.5	0.2	0.2	0.0	0.0	--	--	0.3	0.8	0.0	0.0	0.1	0.1
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	1.8	4.9	3.5	2.7	2.1	1.7	--	--	1.6	5.5	0.8	0.7	2.6	2.1
BROOK SILVERSIDE	--	--	--	--	0.0	0.0	2.2	1.7	--	--	--	--	0.1	0.1	4.1	3.3
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	0.7	0.6	0.1	0.1
GREEN SUNFISH	--	--	0.2	0.6	0.1	0.0	0.5	0.4	--	--	0.1	0.2	0.2	0.1	0.2	0.2
PUMPKINSEED	--	--	0.1	0.2	0.0	0.0	--	--	0.1	0.4	0.2	0.5	0.0	0.0	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	0.0	0.1	0.1	0.1	2.2	1.8	--	--	0.0	0.1	0.0	0.0	0.6	0.5
BLUEGILL	0.1	1.6	1.3	3.5	7.3	5.7	26.6	21.3	0.3	0.9	2.3	7.6	11.3	10.6	19.4	15.9
NORTHERN SUNFISH	--	--	--	--	0.0	0.0	0.2	0.1	--	--	--	--	0.0	0.0	0.3	0.3
Lepomis HYBRID	--	--	0.1	0.2	0.2	0.1	0.2	0.2	0.1	0.4	0.1	0.4	0.3	0.3	0.1	0.1
Lepomis sp.	--	--	0.0	0.1	--	--	0.2	0.2	--	--	0.3	0.8	1.1	1.0	1.0	0.8
SMALLMOUTH BASS	--	--	--	--	0.2	0.2	0.0	0.0	--	--	--	--	0.7	0.6	0.1	0.1
LARGEMOUTH BASS	--	--	0.6	1.6	1.0	0.8	1.4	1.1	--	--	0.3	1.1	0.6	0.5	1.0	0.8
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.2	0.1
JOHNNY DARTER	--	--	0.1	0.3	0.2	0.2	--	--	--	--	0.1	0.4	0.5	0.5	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	0.1	0.1	--	--	--	--	0.0	0.0	0.3	0.2
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1	0.0	0.0
SLENDERHEAD DARTER	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	7.9	100.0	37.9	100.0	127.8	100.0	125.0	100.0	28.3	100.0	29.5	100.0	106.2	100.0	122.3	100.0
CPEs LESS HIGHLY TOLERANTS & G. SHAD	0.5		14.2		36.5		50.4		1.3		12.7		41.8		50.3	
TOTAL SPECIES	5		19		27		24		5		20		37		27	
MEAN NO. SPECIES	1		4		5		7		2		3		6		6	

TABLE 18 (cont.)

SPECIES	2008								2009							
	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	0.0	0.0	0.1	0.1	--	--	0.0	0.1	0.1	0.2	0.1	0.1
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	0.8	3.3	15.3	23.1	4.2	5.7	--	--	4.8	10.6	--	--	0.1	0.1
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	--	--
GRASS PICKEREL	--	--	0.2	0.7	--	--	--	--	--	--	0.2	0.5	0.0	0.1	0.1	0.1
NORTHERN PIKE	--	--	0.3	1.0	--	--	--	--	--	--	0.1	0.1	--	--	--	--
HYBRID PIKE	--	--	0.0	0.1	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	0.1	0.2	0.0	0.1
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	0.2	0.3	0.3	0.4	0.1	12.5	0.8	1.7	0.1	0.1	0.1	0.2
PALLID SHINER	--	--	--	--	--	--	0.0	0.0	--	--	--	--	0.1	0.1	--	--
EMERALD SHINER	0.1	1.2	8.0	33.4	1.8	2.7	1.0	1.4	0.3	25.0	0.1	0.2	0.3	0.5	0.1	0.1
GHOST SHINER	--	--	--	--	0.1	0.1	0.0	0.0	--	--	0.1	0.2	1.3	2.7	0.0	0.1
STRIPED SHINER	--	--	--	--	1.3	2.0	0.2	0.2	--	--	--	--	1.0	2.0	0.1	0.2
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
BIGMOUTH SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	1.4	2.1	2.7	3.6	--	--	--	--	0.6	1.2	0.3	0.5
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	0.9	3.8	2.0	3.0	1.5	2.0	--	--	0.9	2.0	0.4	0.9	1.7	3.2
SAND SHINER	--	--	--	--	0.5	0.7	0.4	0.5	--	--	--	--	0.8	1.7	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.7	0.1	0.2
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	0.1	0.1	0.0	0.0	--	--	--	--	0.1	0.1	--	--
BLUNTNOSE MINNOW	10.4	96.5	8.9	36.9	22.9	34.6	26.5	35.8	0.6	62.5	16.0	35.8	24.5	51.0	29.3	55.2
FATHEAD MINNOW	--	--	--	--	0.2	0.3	--	--	--	--	0.1	0.2	0.4	0.9	0.1	0.2
BULLHEAD MINNOW	--	--	--	--	0.3	0.4	3.6	4.9	--	--	--	--	0.1	0.1	0.7	1.4
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpion sp.	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	0.0	0.0	0.1	0.1	--	--	--	--	--	--	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--
SHORHEAD REDHORSE	--	--	--	--	--	--	0.2	0.2	--	--	--	--	--	--	0.0	0.1
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	18.3	40.9	0.0	0.1	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	0.2	0.3	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	0.2	0.8	0.0	0.0	--	--	--	--	0.1	0.1	--	--	0.0	0.1
CHANNEL CATFISH	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	0.1	0.1
TADPOLE MADTOM	--	--	0.3	1.0	0.3	0.5	0.1	0.1	--	--	0.2	0.3	0.4	0.9	0.1	0.2
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPED TOPMINNOW	--	--	1.6	6.6	0.3	0.5	0.4	0.6	--	--	0.9	2.0	2.2	4.6	2.8	5.2
BROOK SILVERSIDE	--	--	--	--	0.0	0.0	0.3	0.4	--	--	0.0	0.1	0.1	0.2	0.1	0.2
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	--	--
ROCK BASS	--	--	--	--	0.3	0.5	0.1	0.2	--	--	--	--	0.0	0.1	0.5	0.9
GREEN SUNFISH	--	--	0.2	0.8	0.1	0.1	0.1	0.1	--	--	0.6	1.4	0.1	0.1	0.1	0.2
PUMPKINSEED	--	--	0.2	0.8	0.0	0.0	--	--	--	--	--	--	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	0.3	0.5	4.3	5.8	--	--	0.1	0.1	0.3	0.5	0.8	1.5
BLUEGILL	--	--	1.8	7.4	13.8	20.9	23.4	31.6	--	--	0.4	1.0	6.5	13.6	9.8	18.4
NORTHERN SUNFISH	--	--	--	--	0.3	0.4	0.2	0.3	--	--	--	--	0.2	0.3	0.2	0.4
Lepomis HYBRID	--	--	0.1	0.5	0.2	0.3	0.1	0.1	--	--	--	--	0.1	0.1	--	--
Lepomis sp.	--	--	0.4	1.7	3.3	5.0	3.0	4.0	--	--	0.1	0.2	5.0	10.3	1.6	3.1
SMALLMOUTH BASS	--	--	0.0	0.1	0.3	0.5	0.2	0.2	--	--	--	--	0.3	0.7	0.1	0.2
LARGEMOUTH BASS	0.3	2.3	0.2	0.9	0.2	0.3	0.5	0.5	--	--	0.9	2.1	2.2	4.6	3.5	6.6
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE CRAPPIE	--	--	0.0	0.1	--	--	--	--	--	--	--	--	0.1	0.1	--	--
BLACK CRAPPIE	--	--	--	--	--	--	0.0	0.0	--	--	0.0	0.1	0.1	0.1	--	--
JOHNNY DARTER	--	--	--	--	0.2	0.2	0.1	0.1	--	--	0.1	0.1	0.2	0.3	0.1	0.2
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	0.1	0.1	0.3	0.4	--	--	--	--	0.2	0.3	0.3	0.6
BLACKSIDE DARTER	--	--	--	--	0.1	0.1	0.0	0.0	--	--	--	--	0.1	0.1	0.1	0.2
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	10.8	100.0	24.0	100.0	66.1	100.0	74.0	100.0	1.0	100.0	44.7	100.0	48.1	100.0	53.0	100.0
CPEs LESS HIGHLY TOLERANTS & G. SHAD	0.4		14.0		27.4		42.9		0.3		22.4		23.0		23.3	
TOTAL SPECIES	3		15		32		31		3		23		34		30	
MEAN NO. SPECIES	1		3		5		6		1		3		5		5	

TABLE 18 (cont.)

SPECIES	2010 ^(a)								2011							
	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	0.2	0.3	0.1	0.1	--	--	--	--	0.0	0.1	0.2	0.3
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CLUPEIDAE sp.	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	4.6	18.9	7.8	10.6	1.6	3.1	--	--	0.6	1.5	0.7	1.7	0.3	0.5
Dorosoma sp.	--	--	--	--	0.8	1.0	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	0.1	0.4	--	--	--	--	--	--	0.1	0.2	--	--	--	--
GRASS PICKEREL	--	--	0.2	0.8	--	--	--	--	--	--	0.5	1.1	--	--	--	--
NORTHERN PIKE	--	--	0.0	0.1	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID PIKE	--	--	0.0	0.1	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	0.0	0.1	0.1	0.1	0.2	0.3	--	--	0.2	0.4	--	--	0.3	0.5
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	3.8	93.8	1.8	7.2	0.8	1.1	0.1	0.2	--	--	--	--	1.5	3.8	--	--
GHOST SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	0.0	0.1	--	--	--	--	0.3	0.9	0.3	0.5
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.3	--	--
SPOTTAIL SHINER	--	--	0.2	0.6	0.9	1.2	1.7	3.3	--	--	1.1	2.5	0.5	1.3	0.2	0.3
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--	--	--
SPOTFIN SHINER	--	--	0.8	3.4	1.8	2.4	0.8	1.7	--	--	10.3	24.4	0.6	1.4	0.4	0.8
SAND SHINER	--	--	0.1	0.4	0.5	0.6	--	--	--	--	3.8	8.9	0.5	1.3	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
BLUNTNOSE MINNOW	--	--	6.0	24.5	23.8	32.2	27.5	54.0	1.1	75.0	11.8	27.7	13.3	33.7	10.8	22.8
FATHEAD MINNOW	--	--	0.1	0.5	--	--	--	--	--	--	0.0	0.1	0.1	0.2	--	--
BULLHEAD MINNOW	--	--	--	--	0.2	0.2	0.8	1.7	--	--	--	--	0.0	0.1	2.4	5.1
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpiodes sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	2.3	9.3	0.0	0.0	--	--	--	--	0.3	0.8	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.2
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.1
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	0.2	0.8	0.0	0.0	--	--	--	--	0.7	1.6	--	--	0.0	0.1
CHANNEL CATFISH	--	--	0.0	0.1	--	--	0.0	0.1	--	--	--	--	--	--	0.0	0.1
TADPOLE MADTOM	--	--	0.3	1.4	0.3	0.4	0.1	0.2	--	--	0.1	0.2	--	--	0.1	0.1
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPED TOPMINNOW	--	--	2.8	11.5	1.7	2.3	1.9	3.8	--	--	6.2	14.6	2.3	6.0	2.6	5.5
BROOK SILVERSIDE	--	--	--	--	0.5	0.6	1.3	2.5	--	--	--	--	0.3	0.9	1.7	3.6
BROOK STICKLEBACK	--	--	--	--	--	--	0.0	0.1	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	0.0	0.0	0.1	0.2	--	--	--	--	--	--	0.0	0.1
GREEN SUNFISH	--	--	0.7	2.7	0.1	0.2	0.2	0.4	--	--	0.2	0.4	0.1	0.3	0.3	0.7
PUMPKINSEED	--	--	0.0	0.1	0.0	0.0	--	--	--	--	--	--	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	0.1	0.5	0.7	0.9	0.5	1.0	--	--	--	--	0.2	0.5	0.2	0.5
BLUEGILL	0.3	6.3	2.9	12.0	8.9	12.0	7.6	15.0	--	--	2.4	5.6	8.8	22.2	17.2	36.2
NORTHERN SUNFISH	--	--	--	--	0.4	0.6	0.3	0.6	--	--	--	--	0.1	0.2	--	--
Lepomis HYBRID	--	--	0.0	0.1	0.1	0.2	--	--	--	--	--	--	0.1	0.2	0.0	0.1
Lepomis sp.	--	--	0.4	1.5	21.4	28.9	0.6	1.1	0.4	25.0	3.6	8.5	8.2	20.9	7.7	16.1
SMALLMOUTH BASS	--	--	--	--	--	--	0.5	0.9	--	--	--	--	0.2	0.6	0.1	0.2
LARGEMOUTH BASS	--	--	0.6	2.4	1.8	2.4	4.6	9.0	--	--	0.6	1.3	0.9	2.2	2.1	4.3
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE CRAPPIE	--	--	--	--	0.1	0.1	--	--	--	--	0.1	0.1	--	--	--	--
BLACK CRAPPIE	--	--	0.1	0.4	0.1	0.1	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	0.5	0.7	--	--	--	--	0.0	0.1	0.2	0.4	0.3	0.6
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	0.3	0.6	--	--	--	--	0.2	0.5	0.3	0.6
BLACKSIDE DARTER	--	--	--	--	0.1	0.1	0.0	0.1	--	--	--	--	0.1	0.2	0.0	0.1
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
TOTAL FISH	4.0	100.0	24.5	100.0	73.9	100.0	50.9	100.0	1.5	100.0	42.5	100.0	39.4	100.0	47.5	100.0
CPEs LESS HIGHLY TOLERANTS & G. SHAD	4.0		10.5		41.9		21.5		0.4		28.6		25.3		35.8	
TOTAL SPECIES	2		22		29		24		1		19		26		24	
MEAN NO. SPECIES	0.4		4		4		6		0.4		3		4		4	

TABLE 18 (cont.)

SPECIES	2012								2013							
	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	0.0	0.1
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	2.4	7.3	0.5	0.9	--	--	--	--	--	--	0.0	0.1	0.0	0.1
Dorosoma sp.	--	--	--	--	--	--	0.1	0.1	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	0.1	0.2
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
GOLDEN SHINER	--	--	0.3	1.0	0.1	0.1	2.3	2.7	--	--	--	--	--	--	0.0	0.1
PALLID SHINER	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--
EMERALD SHINER	0.1	0.3	0.4	1.1	1.6	2.6	0.1	0.2	--	--	0.1	0.5	--	--	0.0	0.1
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	0.1	0.1	--	--	--	--	--	--	0.3	0.9	0.2	0.4
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	0.1	0.2	0.4	0.5	--	--	--	--	--	--	0.0	0.1
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.7	--	--
SPOTFIN SHINER	--	--	2.1	6.2	3.9	6.4	2.3	2.8	--	--	0.1	0.7	1.9	5.2	0.2	0.6
SAND SHINER	--	--	0.4	1.3	0.9	1.5	--	--	--	--	--	--	0.3	0.8	0.0	0.1
REDFIN SHINER	--	--	--	--	0.1	0.1	0.1	0.1	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	0.0	0.1	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	16.9	40.9	10.4	31.0	25.5	42.1	20.5	24.6	--	--	11.3	63.8	21.3	59.0	15.6	39.9
FATHEAD MINNOW	--	--	0.0	0.1	0.1	0.2	--	--	--	--	--	--	0.2	0.4	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	0.7	0.9	0.1	33.3	--	--	--	--	0.3	0.6
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpionidae sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	0.1	0.7	0.0	0.1	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.0	0.1	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	0.0	0.1	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	0.3	0.7	0.0	0.1	--	--	--	--	0.1	0.4	--	--	--	--
CHANNEL CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	0.4	1.3	--	--	0.1	0.2	--	--	0.2	1.2	0.0	0.1	0.0	0.1
BANDED KILLIFISH	--	--	0.1	0.3	0.1	0.1	--	--	--	--	0.5	2.6	0.2	0.4	0.0	0.1
BLACKSTRIPE TOPMINNOW	--	--	7.3	21.9	11.7	19.4	7.3	8.8	--	--	2.2	12.5	1.8	5.1	0.6	1.4
BROOK SILVERSIDE	--	--	0.1	0.2	0.1	0.2	0.7	0.9	--	--	--	--	--	--	0.7	1.8
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	0.2	0.7	0.4	0.7	0.3	0.3	--	--	0.1	0.7	--	--	0.2	0.6
PUMPKINSEED	5.8	13.9	1.6	4.7	1.8	3.0	0.3	0.4	0.1	33.3	1.1	6.0	0.4	1.0	0.5	1.3
WARMOUTH	0.1	0.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	0.5	1.2	0.1	0.4	0.2	0.3	0.4	0.5	--	--	0.0	0.2	0.2	0.4	1.0	2.6
BLUEGILL	6.9	16.7	5.5	16.4	6.6	10.9	32.1	38.6	0.1	33.3	0.8	4.6	4.9	13.6	13.5	34.6
NORTHERN SUNFISH	--	--	0.0	0.1	0.3	0.5	0.1	0.1	--	--	--	--	0.1	0.3	0.3	0.9
Lepomis HYBRID	--	--	0.0	0.1	0.2	0.3	0.1	0.1	--	--	--	--	0.1	0.2	0.0	0.1
Lepomis sp.	11.0	26.7	1.7	5.1	5.7	9.4	14.9	17.9	--	--	0.2	1.1	2.6	7.2	3.9	9.9
SMALLMOUTH BASS	--	--	--	--	0.1	0.2	0.0	0.0	--	--	0.0	0.2	0.0	0.1	--	--
LARGEMOUTH BASS	--	--	0.0	0.1	0.4	0.6	0.1	0.1	--	--	0.7	3.9	1.1	3.0	1.8	4.5
Micropterus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	0.0	0.2	--	--	--	--
JOHNNY DARTER	--	--	--	--	0.1	0.2	0.1	0.2	--	--	0.1	0.5	0.0	0.1	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.3	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	0.0	0.2	--	--	--	--
LOGPERCH	--	--	--	--	--	--	0.0	0.0	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.7	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	41.3	100.0	33.4	100.0	60.5	100.0	83.3	100.0	0.4	100.0	17.7	100.0	36.1	100.0	39.0	100.0
CPEs LESS HIGHLY TOLERANTS & G. SHAD	24.4		19.8		33.8		60.2		0.4		6.1		14.6		23.2	
TOTAL SPECIES	6		19		23		23		3		17		24		21	
MEAN NO. SPECIES	2		4		4		4		0.4		3		3		3	

(a) 2010 RESULTS FOR LOWER LOCKPORT POOL WERE LIKELY AFFECTED BY THE ROTENONE APPLICATION THAT OCCURRED IN DECEMBER 2009.
NOTE: 0.0 DENOTES VALUES LESS THAN 0.05.

Table 19. Interyear Comparisons of Mean Electrofishing Catch Parameters within the Lower Lockport Pool and Brandon Pool Segments for the Period of May through September.

Lower Lockport Pool^(a)	2013	2012	2011	2010^(b)	2009	2008	2007	2006	2005	2002	2001	2000	1995	1994	Significant Difference^(c)	F Value	P Value
CPEs-all native fish	67.3 <0.01 F ^(d)	153.3 ABCD	69.3 AB	85.3 CD	77.9 ABC	100.4 ABC	94.3 ABC	57.2 ABC	80.4 BCD	189.9 BCD	135.9 A	32.9 A	22.0 ABC	1.8	Yes DE	6.00	E
IWBmod	3.6 ABC	3.7 AB	2.5 CDE	2.8 ABCD	3.7 ABC	3.6 AB	3.4 ABCD	3.1 ABCD	2.5 BCD	4.1 A	3.1 ABCD	2.1 DE	1.7 E	0.5 F	Yes	5.98	<0.01
Native Species Richness	4 ABC	5 AB	3 CDE	3 ABCD	5 AB	4 ABC	4 ABCD	4 BCD	2 DE	5 A	3 ABCD	2 DE	2 EF	1 F	Yes	5.92	<0.01
Brandon Pool^(a)																	
CPEs-all native fish	70.1 A	150.5 A	127.2 A	116.6 A	82.7 A	133.2 A	142.9 A	83.5 AB	70.0 B	164.2 A	79.2 AB	90.3 A	88.6 B	20.6 C	Yes	3.92	<0.01
CPEs-w/o selected spp. ^(e)	10.0	8.0	10.1	10.1	10.2	9.5	9.4	7.4	6.6	9.0	7.6	7.5	4.4	9.2	No	1.13	0.33
IWBmod	4.8 A	4.6 A	4.3 AB	4.3 AB	4.6 A	4.6 AB	4.3 AB	4.1 ABC	3.6 BC	4.7 A	3.9 ABC	4.1 AB	3.2 C	1.7 D	Yes	6.03	<0.01
Native Species Richness	7 A	6 A	6 A	6 A	7 A	7 A	6 A	6 A	4 BC	6 A	5 AB	6 A	3 CD	3 D	Yes	5.53	<0.01

(a) All data log transformed for statistical analyses because they are not normally distributed.

(b) 2010 results for lower Lockport Pool were likely affected by the rotenone application that occurred in December 2009.

(c) Results of one-factor parametric Analysis of Variance tests (alpha=0.05).

(d) Results of Duncan's Multiple Range Test; values with the same letters are not significantly different (alpha=0.05).

(e) Comparisons exclude Gizzard Shad, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Pumpkinseed, Bluegill, and Largemouth Bass.

TABLE 20. INTERYEAR COMPARISONS OF ELECTROFISHING CATCHES (native species only) WITHIN THE UPSTREAM I-55 SEGMENT FOR THE PERIOD OF 15 JUNE THROUGH AUGUST.

SPECIES	1994		1995		1997		1998		1999		2000		2001	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	0.5	0.59	--	--	--	--	0.2	0.18	0.5	0.36
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	0.2	0.47	--	--	0.1	0.12	--	--	0.1	0.10	--	--	0.1	0.06
GIZZARD SHAD	8.5	23.94	19.3	36.15	23.2	27.46	33.3	18.65	32.5	31.46	28.5	25.18	39.0	27.00
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	0.1	0.12	--	--	--	--	0.1	0.09	--	--
NORTHERN PIKE	--	--	0.3	0.47	--	--	--	--	--	--	--	--	0.1	0.06
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	0.1	0.10	--	--	0.2	0.12
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.06
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.06
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	3.5	9.86	2.1	3.99	13.3	15.74	45.8	25.64	5.5	5.32	4.1	3.62	12.8	8.86
GHOST SHINER	--	--	--	--	--	--	0.1	0.06	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	0.2	0.11	--	--	--	--	0.1	0.06
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	1.5	4.23	0.8	1.41	0.3	0.36	0.7	0.39	0.4	0.39	--	--	6.7	4.64
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	0.4	0.47	1.1	0.62	0.3	0.29	0.3	0.27	2.0	1.39
SAND SHINER	--	--	0.1	0.23	--	--	0.2	0.11	--	--	--	--	0.2	0.12
REDFIN SHINER	--	--	--	--	--	--	0.1	0.06	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	0.2	0.11	0.1	0.10	--	--	--	--
BLUNTNOSE MINNOW	3.2	8.92	3.4	6.34	3.0	3.55	20.7	11.59	7.9	7.65	3.4	3.00	26.1	18.08
FATHEAD MINNOW	--	--	--	--	--	--	0.1	0.06	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	0.9	1.07	0.3	0.17	0.2	0.19	--	--	1.8	1.27
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	0.7	1.88	0.6	1.17	1.0	1.18	0.1	0.06	0.7	0.68	0.4	0.35	0.3	0.18
QUILLBACK	0.5	1.41	0.8	1.41	0.8	0.95	0.2	0.11	0.2	0.19	0.5	0.44	0.1	0.06
HIGHFIN CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpiodes sp.	--	--	--	--	0.1	0.12	0.1	0.06	--	--	--	--	--	--
WHITE SUCKER	0.3	0.94	1.4	2.58	0.2	0.24	0.2	0.11	0.2	0.19	0.1	0.09	0.1	0.06
SMALLMOUTH BUFFALO	2.5	7.04	3.3	6.10	3.0	3.55	3.5	1.96	4.7	4.55	2.1	1.86	2.3	1.63
BIGMOUTH BUFFALO	--	--	0.1	0.23	0.1	0.12	--	--	0.1	0.10	0.3	0.27	--	--
BLACK BUFFALO	--	--	--	--	--	--	0.1	0.06	0.3	0.29	0.1	0.09	--	--
SPOTTED SUCKER	--	--	--	--	0.2	0.24	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	0.1	0.10	--	--	--	--
GOLDEN REDHORSE	0.3	0.94	0.3	0.47	--	--	0.3	0.17	0.1	0.10	--	--	--	--
SHORTHEAD REDHORSE	0.3	0.94	0.9	1.64	0.2	0.24	0.6	0.34	0.5	0.48	0.6	0.53	0.3	0.18
Moxostoma sp.	0.2	0.47	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	0.2	0.47	0.1	0.23	--	--	0.1	0.06	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	0.1	0.23	0.3	0.36	0.2	0.11	0.2	0.19	0.6	0.53	0.1	0.06
CHANNEL CATFISH	2.8	7.98	1.6	3.05	4.4	5.21	3.1	1.74	2.1	2.03	2.8	2.47	2.1	1.45
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	0.1	0.06	--	--	0.1	0.09	--	--
BLACKSTRIPED TOPMINNOW	0.2	0.47	--	--	--	--	--	--	--	--	0.1	0.09	0.1	0.06
BROOK SILVERSIDE	--	--	--	--	0.2	0.24	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	0.2	0.24	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	0.1	0.23	--	--	--	--	0.2	0.19	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	0.2	0.19	0.2	0.18	--	--
GREEN SUNFISH	3.3	9.39	7.5	14.08	11.9	14.08	32.8	18.37	20.4	19.75	27.6	24.38	16.5	11.45
PUMPKINSEED	--	--	--	--	--	--	0.4	0.22	--	--	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	0.2	0.47	0.5	0.94	2.2	2.60	3.4	1.90	0.8	0.77	1.0	0.88	0.1	0.06
BLUEGILL	0.7	1.88	2.9	5.40	4.0	4.73	10.0	5.60	9.1	8.81	22.1	19.52	20.3	14.04
NORTHERN SUNFISH	--	--	--	--	0.3	0.36	0.1	0.06	0.1	0.10	0.8	0.71	0.8	0.54
Lepomis HYBRID	--	--	0.3	0.47	1.0	1.18	3.8	2.13	5.2	5.03	4.9	4.33	1.8	1.27
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.2	0.12
SMALLMOUTH BASS	0.8	2.35	0.6	1.17	1.6	1.89	2.0	1.12	0.9	0.87	0.5	0.44	1.2	0.84
LARGEMOUTH BASS	2.0	5.63	3.6	6.81	5.5	6.51	10.1	5.66	7.2	6.97	7.7	6.80	5.5	3.80
WHITE CRAPPIE	--	--	--	--	--	--	0.2	0.11	--	--	0.2	0.18	--	--
BLACK CRAPPIE	--	--	--	--	--	--	0.2	0.11	0.2	0.19	0.3	0.27	0.1	0.06
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	0.2	0.24	0.2	0.11	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	0.1	0.10	0.2	0.18	0.1	0.06
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.06
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	3.7	10.33	2.8	5.16	5.3	6.27	4.0	2.24	2.6	2.52	3.4	3.00	2.7	1.87
TOTAL FISH	35.5	100.00	53.3	100.00	84.5	100.00	178.6	100.00	103.3	100.00	113.2	100.00	144.3	100.00
TOTAL SPECIES	20		23		28		34		31		28		32	

TABLE 20 (cont.)

SPECIES	2002		2003		2004		2005		2006		2007		2008	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	0.3	0.15	0.1	0.03	0.3	0.21	0.1	0.07	0.3	0.18	0.5	0.22	0.8	0.34
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	0.1	0.04	--	--	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	0.1	0.04	--	--	0.2	0.10	0.1	0.07	--	--	0.1	0.04	0.4	0.17
GIZZARD SHAD	86.5	38.36	21.6	8.12	27.6	16.97	56.6	47.28	33.5	24.06	82.6	35.97	62.8	25.52
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.03
GRASS PICKEREL	0.1	0.04	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.14
CENTRAL STONEROLLER	--	--	0.6	0.22	--	--	--	--	--	--	--	--	0.5	0.20
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	0.8	0.31	0.1	0.05	0.1	0.07	0.5	0.36	0.2	0.07	1.2	0.47
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	37.5	16.63	6.7	2.51	5.8	3.59	3.8	3.20	8.8	6.28	15.2	6.61	7.5	3.05
GHOST SHINER	--	--	--	--	0.1	0.05	--	--	--	--	0.3	0.15	--	--
STRIPED SHINER	--	--	0.5	0.19	--	--	0.2	0.14	1.1	0.78	2.7	1.16	0.5	0.20
BIGMOUTH SHINER	0.1	0.04	--	--	--	--	--	--	--	--	0.1	0.04	--	--
SPOTTAIL SHINER	3.1	1.37	3.5	1.32	0.8	0.46	0.7	0.56	0.3	0.18	5.6	2.43	3.3	1.32
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1.9	0.85	5.6	2.10	1.8	1.08	1.2	0.97	1.8	1.32	3.3	1.45	6.0	2.44
SAND SHINER	0.5	0.22	0.7	0.25	0.1	0.05	0.1	0.07	--	--	--	--	0.4	0.17
REDFIN SHINER	--	--	--	--	0.1	0.05	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	0.1	0.04	--	--	--	--	--	--	--	--	--	--	0.3	0.10
BLUNTNOSE MINNOW	8.8	3.92	63.1	23.73	13.3	8.15	11.8	9.89	31.5	22.62	43.3	18.84	55.0	22.34
FATHEAD MINNOW	--	--	0.1	0.03	--	--	--	--	--	--	--	--	0.1	0.03
BULLHEAD MINNOW	0.1	0.04	--	--	0.1	0.05	0.2	0.14	--	--	0.9	0.40	0.2	0.07
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	0.1	0.03
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	0.1	0.04	--	--
RIVER CARPSUCKER	0.1	0.04	0.4	0.16	--	--	0.1	0.07	0.2	0.12	0.1	0.04	0.3	0.10
QUILLBACK	0.3	0.11	0.1	0.03	0.2	0.10	--	--	0.2	0.12	0.3	0.11	0.1	0.03
HIGHFIN CARPSUCKER	--	--	--	--	0.1	0.05	--	--	--	--	--	--	--	--
Carpionodes sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	0.1	0.04	0.7	0.25	0.2	0.10	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	3.3	1.44	3.3	1.25	2.6	1.59	1.6	1.32	2.8	2.03	2.4	1.05	1.8	0.74
BIGMOUTH BUFFALO	0.3	0.11	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BUFFALO	0.1	0.04	0.3	0.09	0.1	0.05	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	0.1	0.05	--	--	--	--	0.1	0.04	--	--
SILVER REDHORSE	0.1	0.04	--	--	0.1	0.05	--	--	0.3	0.24	--	--	--	--
GOLDEN REDHORSE	0.3	0.11	0.3	0.13	0.4	0.26	0.1	0.07	0.1	0.06	0.1	0.04	1.8	0.74
SHORTHEAD REDHORSE	0.1	0.04	0.3	0.09	--	--	--	--	0.1	0.06	0.1	0.04	0.2	0.07
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	0.1	0.05	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.4	0.18	0.6	0.22	0.5	0.31	0.3	0.28	0.2	0.12	1.1	0.47	0.6	0.24
CHANNEL CATFISH	2.8	1.22	7.3	2.76	6.3	3.90	2.7	2.23	4.2	2.99	6.2	2.69	3.1	1.25
TADPOLE MADTOM	--	--	--	--	--	--	--	--	0.1	0.06	--	--	0.2	0.07
FLATHEAD CATFISH	0.1	0.04	0.3	0.09	0.2	0.10	0.1	0.07	--	--	--	--	0.1	0.03
BLACKSTRIPE TOPMINNOW	--	--	0.4	0.16	0.3	0.15	0.1	0.07	0.4	0.30	1.6	0.69	4.7	1.90
BROOK SILVERSIDE	0.1	0.04	--	--	--	--	0.1	0.07	--	--	0.2	0.07	0.3	0.10
WHITE BASS	--	--	0.1	0.03	--	--	--	--	0.1	0.06	--	--	--	--
YELLOW BASS	--	--	--	--	0.1	0.05	--	--	--	--	0.1	0.04	--	--
ROCK BASS	0.2	0.07	0.1	0.03	--	--	0.1	0.07	0.1	0.06	0.2	0.07	0.2	0.07
GREEN SUNFISH	30.8	13.67	55.2	20.75	32.8	20.15	10.8	8.98	14.7	10.53	17.9	7.80	34.2	13.87
PUMPKINSEED	--	--	0.1	0.03	--	--	0.2	0.14	0.9	0.66	0.3	0.11	3.5	1.42
WARMOUTH	--	--	--	--	0.2	0.10	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	0.5	0.22	2.3	0.88	1.6	0.97	0.3	0.21	0.7	0.48	1.8	0.80	3.3	1.32
BLUEGILL	27.3	12.12	41.6	15.64	32.7	20.10	18.8	15.74	20.0	14.36	20.3	8.86	29.8	12.12
NORTHERN SUNFISH	0.6	0.26	1.3	0.47	0.5	0.31	--	--	0.4	0.30	0.8	0.33	1.1	0.44
Lepomis HYBRID	6.0	2.66	26.0	9.78	16.4	10.10	4.0	3.34	6.8	4.91	6.5	2.83	6.3	2.54
Lepomis sp.	--	--	0.3	0.09	--	--	0.2	0.14	--	--	1.8	0.80	0.8	0.34
SMALLMOUTH BASS	1.5	0.67	2.4	0.91	1.7	1.03	0.4	0.35	0.5	0.36	3.3	1.42	2.7	1.08
LARGEMOUTH BASS	8.2	3.62	15.8	5.92	12.9	7.95	3.6	2.99	6.7	4.79	6.6	2.87	9.4	3.82
WHITE CRAPPIE	--	--	0.1	0.03	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	0.3	0.15	0.2	0.06	0.6	0.36	--	--	0.2	0.12	0.3	0.11	0.3	0.10
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	0.1	0.04	--	--
JOHNNY DARTER	--	--	0.1	0.03	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	0.1	0.07	--	--	0.3	0.11	0.1	0.03
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	0.1	0.04	0.6	0.24
SLENDERHEAD DARTER	0.1	0.04	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	0.1	0.04	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	3.0	1.33	3.4	1.29	2.1	1.28	1.6	1.32	2.1	1.50	2.7	1.16	1.8	0.71
TOTAL FISH	225.5	100.00	265.8	100.00	162.5	100.00	119.7	100.00	139.3	100.00	229.6	100.00	246.3	100.00
TOTAL SPECIES	36		35		35		28		29		36		38	

TABLE 20 (cont.)

SPECIES	2009		2010		2011		2012		2013	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	1.5	0.83	1.1	0.67	0.8	0.44	0.7	0.32	0.8	0.75
SHORTNOSE GAR	--	--	--	--	0.1	0.04	--	--	--	--
GAR sp.	--	--	0.1	0.05	--	--	--	--	--	--
BOWFIN	--	--	0.2	0.10	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	32.2	17.88	34.7	21.42	47.4	24.89	67.8	32.42	17.4	15.77
Dorosoma sp.	--	--	--	--	--	--	--	--	--	GRASS
PICKEREL	0.1	0.05	--	--	0.1	0.04	--	0.1	0.08	--
NORTHERN PIKE	0.1	0.05	0.1	0.05	0.2	0.09	--	--	--	--
CENTRAL STONEROLLER	1.1	0.60	0.1	0.05	0.1	0.04	0.1	0.04	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	0.1	0.05	0.6	0.36	0.4	0.22	0.9	0.44	--	--
PALLID SHINER	--	--	0.1	0.05	--	--	0.1	0.04	--	--
EMERALD SHINER	6.5	3.61	2.3	1.44	1.3	0.66	1.8	0.88	0.8	0.75
GHOST SHINER	0.9	0.51	--	--	--	--	--	--	--	--
STRIPED SHINER	0.7	0.37	0.1	0.05	0.3	0.17	0.5	0.24	0.1	0.08
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	2.8	1.57	1.3	0.82	0.3	0.13	0.3	0.12	0.1	0.08
ROSYFACE SHINER	--	--	--	--	--	--	--	--	0.1	0.08
SPOTFIN SHINER	2.1	1.16	1.0	0.62	1.4	0.74	2.9	1.39	0.9	0.83
SAND SHINER	0.3	0.19	--	--	--	--	0.2	0.08	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	0.1	0.04	--	--
SUCKERMOUTH MINNOW	0.2	0.09	--	--	0.3	0.13	--	--	--	--
BLUNTNOST MINNOW	48.8	27.14	26.7	16.48	17.9	9.41	28.8	13.78	16.3	14.79
FATHEAD MINNOW	0.3	0.19	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	0.3	0.14	--	--	--	--	--	--	--	--
Pimephales sp.	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	0.1	0.05	0.3	0.15	0.3	0.13	--	--	0.2	0.15
QUILLBACK	0.1	0.05	0.2	0.10	0.2	0.09	0.1	0.04	0.1	0.08
HIGHFIN CARPSUCKER	--	--	--	--	--	--	--	--	--	--
Carpiodes sp.	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	0.2	0.09	--	--	0.1	0.04	0.1	0.04	0.1	0.08
SMALLMOUTH BUFFALO	2.3	1.25	1.2	0.72	1.3	0.66	1.8	0.84	1.8	1.58
BIGMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--
BLACK BUFFALO	--	--	--	--	0.1	0.04	--	--	0.2	0.15
SPOTTED SUCKER	--	--	0.1	0.05	--	--	--	--	--	--
SILVER REDHORSE	0.1	0.05	0.1	0.05	0.1	0.04	0.3	0.12	--	--
GOLDEN REDHORSE	0.4	0.23	0.9	0.57	0.6	0.31	0.1	0.04	0.1	0.08
SHORHEAD REDHORSE	0.1	0.05	0.1	0.05	0.2	0.09	0.3	0.12	0.3	0.23
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.2	0.09	0.4	0.26	0.7	0.35	0.2	0.08	0.6	0.53
CHANNEL CATFISH	3.5	1.95	3.8	2.32	2.3	1.18	1.7	0.80	4.0	3.62
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	0.1	0.05	0.1	0.04	--	--	--	--
BLACKSTRIPED TOPMINNOW	0.8	0.42	1.2	0.72	0.6	0.31	2.3	1.12	0.1	0.08
BROOK SILVERSIDE	0.1	0.05	0.1	0.05	0.1	0.04	0.1	0.04	0.1	0.08
WHITE BASS	--	--	0.1	0.05	--	--	0.1	0.04	--	--
YELLOW BASS	--	--	0.5	0.31	--	--	--	--	--	--
ROCK BASS	--	--	0.5	0.31	0.2	0.09	0.2	0.08	0.4	0.38
GREEN SUNFISH	27.4	15.24	25.4	15.71	49.9	26.20	34.3	16.41	9.8	8.91
PUMPKINSEED	0.4	0.23	0.2	0.10	0.7	0.35	3.5	1.67	3.2	2.87
WARMOUTH	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	2.7	1.48	3.8	2.32	2.8	1.44	2.3	1.12	0.2	0.15
BLUEGILL	14.1	7.83	25.9	16.01	38.3	20.08	43.8	20.91	31.8	28.83
NORTHERN SUNFISH	0.6	0.32	0.6	0.36	0.3	0.13	0.9	0.44	0.5	0.45
Lepomis HYBRID	9.8	5.42	6.8	4.17	6.5	3.41	4.7	2.23	6.6	5.96
Lepomis sp.	0.9	0.51	0.1	0.05	3.0	1.57	0.5	0.24	0.3	0.30
SMALLMOUTH BASS	5.3	2.92	2.7	1.65	0.7	0.35	0.8	0.36	0.5	0.45
LARGEMOUTH BASS	10.3	5.70	16.9	10.45	10.1	5.29	6.1	2.91	10.9	9.89
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	0.3	0.15	--	--	--	--	0.1	0.08
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	0.1	0.05	--	--	--	--	--	--	0.1	0.08
LOGPERCH	0.3	0.14	0.4	0.26	0.3	0.13	0.1	0.04	0.1	0.08
BLACKSIDE DARTER	0.2	0.09	0.1	0.05	0.1	0.04	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--
WALLEYE	0.1	0.05	0.1	0.05	--	--	--	--	--	--
FRESHWATER DRUM	2.4	1.34	1.2	0.72	1.1	0.57	1.2	0.56	1.9	1.74
TOTAL FISH	179.9	100.00	161.8	100.00	190.5	100.00	209.3	100.00	110.4	100.00
TOTAL SPECIES	39		39		37		33		32	

Table 21. Interyear Comparisons of Mean Electrofishing Catch Parameters within the Upstream I-55 and Downstream I-55 Segments for the Period of 15 June through August.

Upstream I-55 ^(a)	2013 ^(b)	2012 ^(b)	2011 ^(b)	2010 ^(b)	2009 ^(b)	2008 ^(b)	2007 ^(b)	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1995	1994	Significant Difference ^(c)	F Value	P Value
CPEs-all native fish	110.4 CD	209.3 ABCD	190.5 ABC	161.8 ABCD	179.9 ABC	246.3 A	229.6 AB	139.3 BCD	119.7 CD	162.5 ABC	265.8 AB	225.5 ABC	144.3 BCD	113.2 CD	103.3 CD	178.6 ABC	84.5 D	53.3 E	35.5 E ^(d)	Yes	5.37	<0.01
CPEs-w/o selected taxa ^(e)	33.2	86.8	65.2	56.8	61.0	98.1	116.5	49.0	65.7	46.9	52.0	104.9	59.3	43.1	47.7	54.3	45.4	33.5	22.8	No	1.29	0.19
IWBmod	6.6 ABC	6.0 C	6.4 ABC	6.6 ABC	6.8 AB	7.0 A	6.9 AB	6.4 ABC	5.8 BC	7.1 A	7.2 A	6.5 ABC	6.2 ABC	6.5 ABC	6.6 ABC	6.7 ABC	6.3 ABC	5.7 C	5.8 BC	Yes	1.92	0.01
Native Species Richness	8 DEF	9 DEF	9 BCDEF	9 BCDEF	11 ABC	12 A	11 AB	9 BCDEF	7 EF	10 ABCD	11 AB	10 ABCDE	9 ABCDE	9 BCDEF	9 CDEF	10 ABCD	9 DEF	7 F	7 EF	Yes	3.60	<0.01
Downstream I-55 ^(a)																						
CPEs-all native fish	155.1 EFG	238.0 DEFG	301.4 ABCDE	298.3 ABCD	205.1 ABCDEF	436.8 AB	300.4 ABCDEF	387.4 ABC	400.8 ABCDE	242.3 ABCDEF	789.3 A	348.4 ABCDE	163.4 FG	252.5 ABCDEF	186.2 CDEFG	227.3 BCDEF	139.1 FG	119.8 FG	190.0 G	Yes	3.85	<0.01
IWBmod ^(f)	6.4 DEF	6.2 EF	6.8 BCDEF	7.4 ABC	7.2 ABCD	7.9 A	6.6 CDEF	7.6 AB	6.8 BCDEF	7.4 ABC	7.9 A	7.5 ABC	6.7 CDEF	7.4 ABC	7.2 ABCD	7.1 ABCDE	6.7 BCDEF	7.2 ABCD	6.0 F	Yes	3.56	<0.01
Native Species Richness	8 EF	8 DEF	10 BCDEF	13 AB	12 ABC	15 A	11 BC	12 ABC	11 BC	12 BC	13 AB	12 ABC	10 BCDE	10 BCDEF	11 BCD	11 BC	10 CDEF	12 BC	9 F	Yes	4.40	<0.01

(a) All data (except as noted) were log transformed for statistical analyses because they are not normally distributed.
(b) Electrofishing results from July through August of 2007-2013 may have been negatively influenced by dense mats of duckweed/algae that interfered with sampling and caused atypically low DOs at backwater locations from 2011 through 2013.
(c) Results of one-factor parametric Analysis of Variance tests (alpha=0.05).
(d) Results of Duncan's Multiple Range Test; values with the same letters are not significantly different (alpha=0.05).
(e) Comparison excludes Spottfin Shiner, Emerald Shiner, Bluntnose Minnow, Green Sunfish, Bluegill, hybrid *Lepomis* , and Largemouth Bass.
(f) Raw data are normally distributed.

TABLE 22. INTERYEAR COMPARISONS OF ELECTROFISHING CATCHES (native species only) WITHIN THE DOWNSTREAM I-55 SEGMENT FOR THE PERIOD OF 15 JUNE THROUGH AUGUST.

SPECIES	1994		1995		1997		1998		1999		2000		2001	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	0.4	0.33	0.9	0.63	0.3	0.11	--	--	--	--	0.3	0.15
SKIPJACK HERRING	0.5	0.26	--	--	0.1	0.09	0.3	0.11	0.4	0.20	--	--	0.6	0.38
GIZZARD SHAD 150.8	79.34	32.6	27.21	70.6	50.76	91.3	40.15	47.9	25.74	62.3	24.65	37.3	22.80	
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	0.1	0.06	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	0.2	0.17	--	--	--	--	0.1	0.07	0.3	0.10	0.4	0.23
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	3.3	1.71	--	--	6.4	4.58	5.3	2.31	2.1	1.15	0.9	0.35	11.5	7.04
GHOST SHINER	0.3	0.13	--	--	--	--	0.6	0.28	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	0.1	0.06	--	--	--	--	--	--
SPOTTAIL SHINER 0.8	0.39	2.4	2.00	0.6	0.45	2.4	1.05	0.5	0.27	8.4	3.32	1.9	1.15	
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	0.3	0.13	--	--	0.6	0.45	0.4	0.17	1.8	0.94	0.5	0.20	3.3	1.99
SAND SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REDFIN SHINER	--	--	--	--	--	--	0.1	0.06	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW 1.8	0.92	8.8	7.35	4.9	3.50	19.4	8.53	16.6	8.89	22.5	8.91	25.4	15.53	
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	3.0	1.58	1.4	1.17	2.1	1.53	12.5	5.50	9.9	5.32	11.0	4.36	17.5	10.71
RIVER CARPSUCKER	0.8	0.39	2.0	1.67	1.5	1.08	0.8	0.33	0.8	0.40	1.0	0.40	0.4	0.23
QUILLBACK	1.0	0.53	1.8	1.50	1.0	0.72	0.3	0.11	0.6	0.34	0.4	0.15	1.0	0.61
WHITE SUCKER	--	--	0.4	0.33	--	--	0.1	0.06	--	--	--	--	--	--
SMALLMOUTH BUFFALO	1.5	0.79	2.8	2.34	2.6	1.89	1.8	0.77	4.0	2.16	3.1	1.24	3.5	2.14
BIGMOUTH BUFFALO	--	--	--	--	0.9	0.63	0.3	0.11	0.3	0.13	0.3	0.10	0.1	0.08
BLACK BUFFALO	--	--	0.4	0.33	--	--	--	--	--	--	0.3	0.10	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	0.3	0.13	0.4	0.33	--	--	--	--	--	--	--	--	0.1	0.08
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	0.8	0.39	3.4	2.84	1.4	0.99	2.5	1.10	0.4	0.20	--	--	0.3	0.15
SHORTHEAD REDHORSE 1.3	0.66	3.4	2.84	0.8	0.54	0.6	0.28	0.5	0.27	0.3	0.10	0.1	0.08	
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.5	0.26	--	--	0.3	0.18	0.3	0.11	0.5	0.27	1.0	0.40	0.4	0.23
CHANNEL CATFISH 0.3	0.13	1.2	1.00	1.8	1.26	0.6	0.28	1.0	0.54	1.4	0.54	1.4	0.84	
Ameiurus sp.	--	--	--	--	--	--	--	--	0.1	0.07	--	--	--	--
TADPOLE MADTOM	--	--	--	--	--	--	0.1	0.06	--	--	0.1	0.05	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	0.1	0.09	0.1	0.06	--	--	0.3	0.10	0.1	0.08
BROOK SILVERSIDE	--	--	--	--	0.1	0.09	0.1	0.06	0.3	0.13	--	--	0.4	0.23
WHITE BASS	--	--	--	--	--	--	0.1	0.06	0.1	0.07	0.1	0.05	--	--
YELLOW BASS	--	--	0.4	0.33	0.1	0.09	0.1	0.06	--	--	--	--	--	--
Morone sp.	0.5	0.26	--	--	--	--	--	--	0.1	0.07	--	--	--	--
ROCK BASS	--	--	--	--	0.1	0.09	--	--	--	--	--	--	--	--
GREEN SUNFISH	3.0	1.58	2.0	1.67	3.5	2.52	7.1	3.14	8.2	4.38	18.4	7.28	5.1	3.14
PUMPKINSEED	--	--	0.2	0.17	--	--	0.8	0.33	0.1	0.07	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	0.1	0.05	--	--
ORANGESPOTTED SUNFISH	4.5	2.37	14.4	12.02	15.6	11.23	31.5	13.86	20.6	11.05	16.6	6.58	5.8	3.52
BLUEGILL	1.8	0.92	8.2	6.84	12.1	8.72	30.0	13.20	49.2	26.42	82.6	32.72	35.8	21.88
NORTHERN SUNFISH	0.3	0.13	--	--	--	--	--	--	--	--	0.1	0.05	0.1	0.08
Lepomis HYBRID	--	--	--	--	0.1	0.09	0.4	0.17	1.1	0.61	1.5	0.59	0.9	0.54
Lepomis sp.	0.8	0.39	20.0	16.69	--	--	--	--	--	--	0.3	0.10	--	--
SMALLMOUTH BASS	1.0	0.53	3.6	3.01	1.1	0.81	2.1	0.94	0.8	0.40	1.5	0.59	0.6	0.38
LARGEMOUTH BASS	1.0	0.53	4.4	3.67	4.5	3.23	10.3	4.51	13.3	7.14	13.4	5.30	6.4	3.90
WHITE CRAPPIE	--	--	--	--	--	--	0.4	0.17	0.3	0.13	0.4	0.15	--	--
BLACK CRAPPIE	--	--	0.2	0.17	0.3	0.18	0.4	0.17	0.4	0.20	1.0	0.40	0.1	0.08
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	0.8	0.67	1.3	0.90	0.5	0.22	1.0	0.54	0.1	0.05	0.5	0.31
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	0.1	0.07	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	10.5	5.53	4.0	3.34	3.8	2.70	3.5	1.54	3.3	1.75	2.6	1.04	2.4	1.45
TOTAL FISH	190.0	100.00	119.8	100.00	139.1	100.00	227.3	100.00	186.2	100.00	252.5	100.00	163.4	100.00
TOTAL SPECIES	24		25		28		36		29		29		29	

TABLE 22 (cont.)

SPECIES	2002		2003		2004		2005		2006		2007		2008	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	0.9	0.25	0.3	0.03	--	--	0.5	0.12	0.1	0.03	1.0	0.33	0.8	0.17
SKIPJACK HERRING	0.3	0.07	--	--	0.3	0.10	0.1	0.03	--	--	--	--	--	--
GIZZARD SHAD	80.9	23.21	78.6	9.96	38.6	15.94	217.3	54.21	115.4	29.78	76.6	25.51	56.5	12.94
Dorosoma sp.	--	--	194.4	24.63	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	0.4	0.09	--	--	--	--	0.1	0.03
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	0.1	0.04	0.1	0.03
GOLDEN SHINER	0.5	0.14	0.8	0.10	0.3	0.10	1.5	0.37	--	--	0.1	0.04	1.3	0.29
PALLID SHINER	--	--	1.0	0.13	0.3	0.10	--	--	0.3	0.07	--	--	--	--
EMERALD SHINER	26.9	7.71	1.5	0.19	5.0	2.06	2.3	0.56	20.5	5.29	1.9	0.62	4.3	0.97
GHOST SHINER	--	--	0.3	0.03	--	--	--	--	1.2	0.30	0.4	0.12	0.4	0.09
STRIPED SHINER	--	--	--	--	--	--	0.3	0.06	0.8	0.20	--	--	0.6	0.14
SPOTTAIL SHINER	2.4	0.68	6.1	0.78	0.5	0.21	1.8	0.44	2.2	0.56	3.8	1.25	11.3	2.58
ROSYFACE SHINER	--	--	1.9	0.24	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	2.1	0.61	4.5	0.57	1.4	0.57	2.9	0.72	4.1	1.06	3.3	1.08	3.6	0.83
SAND SHINER	0.1	0.04	--	--	--	--	--	--	--	--	0.4	0.12	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	4.8	0.60	--	--	--	--	--	--	--	--	0.3	0.06
Notropis sp.	--	--	0.1	0.02	--	--	--	--	0.1	0.03	--	--	0.1	0.03
BLUNTNOST MINNOW	26.6	7.64	151.5	19.20	19.5	8.05	32.3	8.05	43.2	11.15	108.8	36.20	67.6	15.48
FATHEAD MINNOW	--	--	1.1	0.14	--	--	0.1	0.03	--	--	--	--	0.4	0.09
BULLHEAD MINNOW	3.1	0.90	8.5	1.08	2.6	1.08	5.1	1.28	11.8	3.04	4.4	1.46	15.4	3.52
RIVER CARPSUCKER	0.5	0.14	0.4	0.05	1.5	0.62	1.0	0.25	0.6	0.17	1.0	0.33	0.9	0.20
QUILLBACK	0.4	0.11	0.3	0.03	0.3	0.10	1.3	0.31	0.5	0.13	0.3	0.08	0.4	0.09
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	4.4	1.26	2.3	0.29	2.8	1.14	1.6	0.41	1.7	0.43	2.3	0.75	1.9	0.43
BIGMOUTH BUFFALO	0.4	0.11	0.1	0.02	--	--	0.1	0.03	--	--	--	--	0.3	0.06
BLACK BUFFALO	--	--	0.6	0.08	--	--	0.3	0.06	--	--	--	--	0.1	0.03
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	0.3	0.08	--	--
SPOTTED SUCKER	0.1	0.04	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	0.3	0.10	0.4	0.09	0.1	0.03	0.1	0.04	--	--
BLACK REDHORSE	0.1	0.04	--	--	--	--	--	--	0.1	0.03	--	--	--	--
GOLDEN REDHORSE	1.1	0.32	4.3	0.54	0.5	0.21	0.3	0.06	3.5	0.89	0.9	0.29	5.4	1.23
SHORTHEAD REDHORSE	0.1	0.04	0.3	0.03	--	--	--	--	0.1	0.03	--	--	--	--
BLACK BULLHEAD	--	--	0.1	0.02	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.5	0.14	0.8	0.10	0.3	0.10	--	--	0.3	0.07	--	--	0.4	0.09
CHANNEL CATFISH	3.9	1.11	5.1	0.65	2.9	1.19	1.6	0.41	1.8	0.46	1.4	0.46	2.1	0.49
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	0.1	0.02	--	--	--	--	0.3	0.07	--	--	0.9	0.20
FLATHEAD CATFISH	--	--	--	--	0.1	0.05	--	--	--	--	--	--	--	--
BLACKSTRIPED TOPMINNOW	0.1	0.04	0.3	0.03	0.5	0.21	0.1	0.03	0.3	0.07	0.8	0.25	0.3	0.06
BROOK SILVERSIDE	0.9	0.25	1.4	0.17	0.5	0.21	0.9	0.22	1.3	0.33	1.5	0.50	5.6	1.29
WHITE BASS	0.1	0.04	0.8	0.10	0.1	0.05	--	--	--	--	--	--	--	--
YELLOW BASS	0.1	0.04	0.1	0.02	0.1	0.05	--	--	--	--	--	--	0.6	0.14
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	0.1	0.02	0.1	0.05	0.4	0.09	0.4	0.10	0.1	0.04	0.8	0.17
GREEN SUNFISH	29.1	8.36	56.6	7.17	36.8	15.17	18.1	4.52	21.4	5.53	18.6	6.20	28.3	6.47
PUMPKINSEED	0.4	0.11	0.9	0.11	0.3	0.10	0.1	0.03	--	--	--	--	0.1	0.03
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	27.8	7.97	89.9	11.39	10.1	4.18	5.5	1.37	18.2	4.70	4.9	1.62	26.1	5.98
BLUEGILL	115.3	33.08	138.4	17.53	85.3	35.19	87.0	21.71	108.7	28.06	49.1	16.35	153.3	35.09
NORTHERN SUNFISH	--	--	0.1	0.02	--	--	0.4	0.09	0.5	0.13	0.4	0.12	4.1	0.94
Lepomis HYBRID	1.4	0.39	2.5	0.32	2.1	0.88	2.0	0.50	3.1	0.79	1.8	0.58	2.4	0.54
Lepomis sp.	--	--	1.0	0.13	0.1	0.05	0.3	0.06	1.8	0.46	0.5	0.17	10.1	2.32
SMALLMOUTH BASS	1.8	0.50	4.3	0.54	2.8	1.14	0.5	0.12	0.8	0.20	0.9	0.29	3.9	0.89
LARGEMOUTH BASS	12.1	3.48	18.9	2.39	21.0	8.67	11.5	2.87	19.4	5.00	12.5	4.16	20.3	4.64
WHITE CRAPPIE	0.3	0.07	0.4	0.05	0.1	0.05	--	--	--	--	0.1	0.04	--	--
BLACK CRAPPIE	0.4	0.11	0.5	0.06	0.5	0.21	0.1	0.03	0.3	0.07	0.1	0.04	0.3	0.06
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	0.3	0.06
LOGPERCH	0.9	0.25	0.4	0.05	1.0	0.41	1.1	0.28	1.2	0.30	1.3	0.42	4.5	1.03
BLACKSIDE DARTER	--	--	0.6	0.08	0.1	0.05	--	--	--	--	--	--	0.1	0.03
SLENDERHEAD DARTER	0.1	0.04	0.1	0.02	--	--	0.1	0.03	--	--	--	--	0.1	0.03
FRESHWATER DRUM	2.5	0.72	2.6	0.33	3.9	1.60	1.8	0.44	1.7	0.43	1.1	0.37	0.9	0.20
TOTAL FISH	348.4	100.00	789.3	100.00	242.3	100.00	400.8	100.00	387.4	100.00	300.4	100.00	436.8	100.00
TOTAL SPECIES	35		42		33		34		32		30		40	

TABLE 22 (cont.)

SPECIES	2009		2010		2011		2012		2013	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	0.1	0.08
LONGNOSE GAR	0.4	0.18	1.1	0.38	1.0	0.33	0.3	0.11	0.1	0.08
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	14.4	7.01	67.9	22.76	121.3	40.23	55.3	23.21	19.1	12.33
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	0.9	0.43	--	--	0.5	0.17	--	--	--	--
CENTRAL STONEROLLER	0.5	0.24	--	--	--	--	--	--	--	--
GOLDEN SHINER	0.1	0.06	0.9	0.29	0.5	0.17	2.1	0.89	0.3	0.16
PALLID SHINER	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	0.8	0.37	0.5	0.17	--	--	--	--	0.1	0.08
GHOST SHINER	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	0.3	0.12	0.1	0.04	0.4	0.12	--	--	--	--
SPOTTAIL SHINER	2.0	0.98	4.3	1.42	1.6	0.54	0.8	0.32	0.1	0.08
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	2.9	1.40	2.0	0.67	1.1	0.37	0.1	0.05	0.3	0.16
SAND SHINER	--	--	--	--	--	--	0.3	0.11	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	44.0	21.45	36.4	12.20	8.8	2.90	13.5	5.67	8.9	5.72
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	0.3	0.12	1.9	0.63	1.4	0.46	2.3	0.95	0.5	0.32
RIVER CARPSUCKER	0.4	0.18	0.3	0.08	--	--	--	--	0.3	0.16
QUILLBACK	0.5	0.24	0.1	0.04	0.5	0.17	0.1	0.05	0.1	0.08
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	0.6	0.30	1.1	0.38	0.9	0.29	0.8	0.32	0.9	0.56
BIGMOUTH BUFFALO	--	--	--	--	0.3	0.08	0.3	0.11	--	--
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	0.1	0.04	--	--	--	--	--	--
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	1.6	0.79	2.9	0.96	1.1	0.37	0.5	0.21	0.5	0.32
SHORTHEAD REDHORSE	0.8	0.37	0.1	0.04	0.1	0.04	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	0.5	0.24	0.4	0.13	0.4	0.12	0.9	0.37	0.5	0.32
CHANNEL CATFISH	1.1	0.55	1.0	0.34	0.9	0.29	0.8	0.32	1.4	0.89
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	0.1	0.06	0.6	0.21	0.5	0.17	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	0.1	0.08
BLACKSTRIPE TOPMINNOW	0.6	0.30	2.0	0.67	1.0	0.33	0.4	0.16	--	--
BROOK SILVERSIDE	3.1	1.52	2.8	0.92	8.5	2.82	0.8	0.32	0.3	0.16
WHITE BASS	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	0.3	0.16
Morone sp.	--	--	0.1	0.04	--	--	--	--	--	--
ROCK BASS	1.5	0.73	2.8	0.92	2.3	0.75	0.5	0.21	--	--
GREEN SUNFISH	19.5	9.51	22.0	7.38	20.9	6.93	11.3	4.73	17.3	11.12
PUMPKINSEED	--	--	--	--	0.1	0.04	0.3	0.11	1.1	0.73
WARMOUTH	0.1	0.06	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	14.4	7.01	43.0	14.42	7.0	2.32	15.6	6.57	0.6	0.40
BLUEGILL	50.1	24.44	48.8	16.35	84.0	27.87	109.3	45.90	78.9	50.85
NORTHERN SUNFISH	1.1	0.55	0.6	0.21	0.4	0.12	0.3	0.11	1.1	0.73
Lepomis HYBRID	4.6	2.25	0.9	0.29	1.1	0.37	1.4	0.58	1.1	0.73
Lepomis sp.	6.0	2.93	1.3	0.42	5.3	1.74	13.5	5.67	1.4	0.89
SMALLMOUTH BASS	2.1	1.04	1.5	0.50	1.9	0.62	--	--	0.5	0.32
LARGEMOUTH BASS	21.3	10.36	43.1	14.46	23.0	7.63	6.6	2.78	17.9	11.52
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	0.3	0.12	0.3	0.08	0.1	0.04	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--
LOGPERCH	5.4	2.62	6.5	2.18	4.1	1.37	0.1	0.05	0.8	0.48
BLACKSIDE DARTER	0.3	0.12	0.1	0.04	--	--	--	--	--	--
SLENDERHEAD DARTER	0.3	0.12	--	--	--	--	--	--	--	--
FRESHWATER DRUM	2.5	1.22	1.0	0.34	0.6	0.21	0.4	0.16	0.8	0.48
TOTAL FISH	205.1	100.00	298.3	100.00	301.4	100.00	238.0	100.00	155.1	100.00
TOTAL SPECIES	34		32		30		25		27	

TABLE 23. COMPARISONS OF ANNUAL MEAN RELATIVE WEIGHTS FOR NATIVE SPECIES AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 1994, 1995, 2000-2002, AND 2005-2013.

SPECIES	1994								1995								2000								2001																							
	LOCKPORT				BRANDON				UPSTRM				DWNSTRM				LOCKPORT				BRANDON				UPSTRM				DWNSTRM				LOCKPORT				BRANDON				UPSTRM				DWNSTRM			
	POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55									
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN										
LONGNOSE GAR	--	--	--	--	--	--	5	78	--	--	--	--	7	68	11	79	--	--	--	--	5	73	--	--	--	--	--	--	--	--	--	--	8	91	1	63												
GIZZARD SHAD	1	90	13	98	31	99	41	104	8	121	24	99	86	111	105	105	47	99	317	90	387	87	474	89	21	99	79	99	255	102	262	99																
NORTHERN PIKE	1	102	1	95	2	86	--	--	--	1	94	1	85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	103	--	--															
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	166	--	--	--	--	--															
RIVER CARPSUCKER	--	--	--	--	9	102	9	95	--	--	--	--	11	104	15	99	--	--	--	--	11	95	11	96	--	--	--	--	5	102	13	100																
WHITE SUCKER	--	--	50	92	4	98	1	75	--	--	12	91	15	91	5	92	--	--	2	86	1	83	--	--	--	--	11	93	3	92	--	--																
SMALLMOUTH BUFFALO	--	--	--	--	14	82	17	89	--	--	--	--	26	95	28	93	--	--	--	--	40	93	35	88	--	--	--	--	54	93	28	91																
BIGMOUTH BUFFALO	--	--	--	--	--	2	103	--	--	--	1	114	--	--	--	--	--	--	--	2	97	2	82	--	--	--	--	--	2	88	--	--																
SHORTHEAD REDHORSE	--	--	--	--	3	105	22	91	--	--	--	--	5	89	19	97	--	--	--	--	10	91	11	87	--	--	1	100	4	101	3	101																
BLACK BULLHEAD	--	--	1	97	1	94	3	96	--	--	--	--	2	79	--	--	--	--	--	1	61	--	--	--	--	--	--	--	--	--	--	--	--															
YELLOW BULLHEAD	--	--	15	110	1	138	3	103	--	--	8	113	1	95	--	--	--	--	20	106	10	114	13	102	--	--	17	113	1	88	5	103																
CHANNEL CATFISH	--	--	13	106	31	103	22	105	1	95	7	107	43	105	36	107	5	101	42	102	50	103	28	103	19	97	43	102	86	106	31	111																
FLATHEAD CATFISH	--	--	--	--	--	1	93	--	--	--	--	--	--	1	93	--	--	--	--	2	91	--	--	--	--	--	1	79	1	149	--	--																
WHITE BASS	--	--	--	--	1	95	--	--	--	--	--	--	1	108	12	101	--	--	4	104	4	95	1	94	1	94	2	93	6	98	--	--																
YELLOW BASS	--	--	--	--	--	2	113	1	73	11	87	1	94	4	119	--	--	4	94	2	98	1	91	--	--	--	8	101	2	101	--	--																
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	114	--	--	--	--	--	--	--	2	112	1	86																
GREEN SUNFISH	1	134	52	124	89	118	51	127	6	102	27	131	78	123	16	127	13	109	482	113	400	115	253	117	49	118	194	117	381	121	91	122																
PUMPKINSEED	--	--	--	--	--	--	3	126	--	--	--	--	--	1	143	3	118	--	--	--	--	1	125	3	115	--	--	--	--	--	--	--																
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	101	--	--	--	--	1	94	--	--	--	--																
BLUEGILL	--	--	--	--	5	109	25	113	--	--	1	98	25	123	41	128	3	108	9	116	246	104	581	106	3	145	9	113	210	110	197	111																
SMALLMOUTH BASS	--	--	--	--	5	94	9	84	--	--	--	4	91	15	102	--	--	1	95	6	86	15	89	--	--	--	--	2	114	8	95																	
LARGEMOUTH BASS	--	--	--	15	100	8	116	9	125	1	108	24	108	22	110	6	112	8	105	92	101	145	105	1	120	1	115	101	105	87	112																	
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	3	95	--	--	--	--	--	--	1	101	5	107	--	--	--	--	--	--	--	--	--																
BLACK CRAPPIE	--	--	1	120	--	--	1	98	--	--	--	3	99	1	97	--	--	--	--	4	98	8	103	--	--	--	--	2	126	1	89																	
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	1	94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--																
FRESHWATER DRUM	--	--	4	113	26	114	40	110	--	--	4	113	26	114	37	105	--	--	10	108	64	105	25	97	1	92	19	116	69	110	38	104																

TABLE 23 (cont.)

SPECIES	2002								2005								2006								2007															
	LOWER				LOCKPORT				BRANDON				UPSTRM				DWNSTRM				LOWER				LOCKPORT				BRANDON				UPSTRM				DWNSTRM			
	POOL				I-55				I-55				I-55				I-55				POOL				I-55				I-55				I-55				I-55			
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN								
LONGNOSE GAR	--	--	--	--	2	88	1	87	--	--	--	--	3	91	3	90	--	--	--	--	17	86	1	123	--	--	1	88	14	88	6	90								
GIZZARD SHAD 138	92	284	98	297	99	256	100	100	95	183	91	269	95	163	94	80	90	175	96	462	97	243	94	144	89	112	96	164	98	84	100									
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	82	--	--	--	--	--	--	--	2	101	1	80	--	--									
GOLDEN SHINER 3	109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	100								
RIVER CARPSUCKER	--	--	--	--	12	93	7	90	--	--	--	--	3	95	16	93	--	--	--	--	2	100	7	87	--	--	--	3	102	16	95									
WHITE SUCKER	1	89	14	94	2	86	--	--	--	--	6	99	--	--	--	--	--	--	5	94	--	--	--	--	--	2	96	1	91	--	--									
SMALLMOUTH BUFFALO	--	--	1	113	68	93	44	91	--	--	3	88	70	87	18	86	--	--	3	106	58	84	23	87	--	--	1	86	62	93	27	93								
BIGMOUTH BUFFALO	--	--	--	--	3	88	4	102	--	--	--	--	--	--	2	82	--	--	--	--	2	95	--	--	--	--	--	--	--	1	82									
SHORTHEAD REDHORSE	--	--	--	--	4	95	4	87	--	--	--	--	2	95	2	93	--	--	--	--	2	106	5	94	--	--	--	2	101	1	67									
BLACK BULLHEAD 3	84	1	103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								
YELLOW BULLHEAD	4	102	25	109	19	107	9	103	3	103	19	107	8	108	--	--	1	114	18	111	7	114	3	102	4	124	16	109	14	114	1	92								
CHANNEL CATFISH 22	96	78	99	109	104	50	108	10	97	57	103	103	107	31	106	13	96	58	104	155	108	34	109	10	94	51	102	148	107	24	106									
FLATHEAD CATFISH	--	--	1	50	2	90	--	--	--	--	--	--	5	91	--	--	--	--	--	--	2	81	--	--	--	--	--	2	85	--	--									
WHITE BASS	--	--	--	--	12	98	2	114	--	--	1	101	3	90	--	--	--	--	--	--	5	88	--	--	--	--	--	1	95	1	131									
YELLOW BASS	--	--	2	114	--	--	1	129	--	--	1	103	2	110	1	83	--	--	--	--	--	--	--	--	--	2	99	--	--	--	--									
ROCK BASS	--	--	--	--	2	91	--	--	--	--	1	98	3	97	4	96	--	--	1	109	1	114	5	110	--	--	1	125	1	106	4	89								
GREEN SUNFISH	102	126	340	128	586	123	265	124	12	115	86	118	333	109	307	114	28	114	86	120	308	115	273	120	71	118	140	120	390	118	290	120								
PUMPKINSEED 10	113	2	115	--	--	6	118	--	--	4	123	3	111	3	113	55	113	44	114	18	109	1	123	20	106	21	116	11	116	--	--									
WARMOUTH	1	114	--	--	--	--	--	--	--	--	--	--	1	111	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								
BLUEGILL	13	106	13	116	337	114	479	113	--	--	2	96	207	105	386	107	3	107	28	115	350	113	487	111	1	117	11	115	264	113	343	113								
SMALLMOUTH BASS	1	92	3	107	42	96	16	93	--	--	1	88	14	88	4	87	--	--	1	104	18	95	14	86	3	89	2	95	24	95	6	97								
LARGEMOUTH BASS	8	106	3	101	199	107	137	110	18	99	10	103	125	106	135	108	11	101	5	107	209	103	243	102	9	99	12	109	118	106	126	105								
WHITE CRAPPIE	2	88	2	109	1	89	2	143	--	--	--	--	1	153	--	--	--	--	--	--	1	112	1	115	--	--	--	--	--	--	--	--								
BLACK CRAPPIE 1	96	1	101	9	107	8	112	--	--	1	113	--	--	2	99	--	--	--	--	--	2	116	--	--	--	--	3	106	6	119	1	99								
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								
SAUGER	--	--	--	--	1	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	101	--	--	--	--								
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								
FRESHWATER DRUM	3	103	29	119	89	110	31	103	4	110	25	117	51	111	23	104	6	103	33	107	49	104	22	101	4	102	16	110	64	113	19	102								

TABLE 23 (cont.)

SPECIES	2008								2009								2010								2011																							
	LOWER LOCKPORT POOL				BRANDON POOL				UPSTRM I-55				DWNSTRM I-55				LOWER LOCKPORT POOL				BRANDON POOL				UPSTRM I-55				DWNSTRM I-55				LOWER LOCKPORT POOL				BRANDON POOL				UPSTRM I-55				DWNSTRM I-55			
	N		MEAN		N		MEAN		N		MEAN		N		MEAN		N		MEAN		N		MEAN		N		MEAN		N		MEAN		N		MEAN		N		MEAN									
LONGNOSE GAR	--	--	1	81	21	90	--	--	--	--	3	82	25	84	2	91	--	--	1	71	30	83	4	101	--	--	--	--	27	79	4	83																
GIZZARD SHAD	132	97	86	99	144	100	101	101	66	92	108	103	149	98	46	100	21	100	48	107	171	103	155	100	10	98	117	98	323	98	278	93																
NORTHERN PIKE	--	--	20	96	6	93	--	--	--	10	98	1	83	--	--	--	--	--	4	105	3	79	--	--	--	--	2	95	2	87	--	--																
GOLDEN SHINER	--	--	--	--	--	--	1	103	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								
RIVER CARPSUCKER	--	--	--	--	5	95	10	90	--	--	--	--	2	98	8	96	--	--	--	--	6	99	3	97	--	--	--	--	4	93	--	--																
WHITE SUCKER	--	--	3	89	--	--	--	--	--	--	11	87	1	82	--	--	--	--	26	92	--	--	--	--	--	--	23	94	2	79	--	--																
SMALLMOUTH BUFFALO	--	--	1	99	49	87	18	88	--	--	--	62	86	14	83	--	--	--	--	54	86	20	91	--	--	--	--	43	84	21	85																	
BIGMOUTH BUFFALO	--	--	--	--	--	2	102	--	--	--	--	--	--	--	--	--	--	--	--	1	97	1	88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--									
SHORTHEAD REDHORSE	--	--	--	--	4	100	6	96	--	--	--	2	92	11	98	--	--	--	--	4	86	3	95	--	--	--	--	2	93	2	91																	
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--									
YELLOW BULLHEAD	3	115	24	116	18	111	4	101	3	104	24	106	14	111	10	117	1	118	21	115	9	117	4	115	2	138	32	117	12	109	5	101																
CHANNEL CATFISH	5	92	52	105	146	108	27	104	12	97	50	106	153	109	20	107	6	97	23	108	117	113	23	116	7	94	34	110	130	112	19	109																
FLATHEAD CATFISH	--	--	--	--	3	96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	84	1	84	--	--	--	--	1	100	--	--																
WHITE BASS	1	106	1	84	4	94	--	--	--	--	--	--	1	111	--	--	--	--	--	3	98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--									
YELLOW BASS	--	--	3	126	2	131	4	113	--	--	--	--	--	--	--	--	4	123	7	122	7	111	2	120	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								
ROCK BASS	--	--	3	97	3	111	9	100	--	--	1	118	2	110	16	106	--	--	1	93	11	107	28	108	--	--	--	6	109	24	114																	
GREEN SUNFISH	69	119	201	120	547	118	290	120	111	123	303	123	539	122	257	122	32	123	205	126	436	125	242	127	143	130	336	124	606	122	180	126																
PUMPKINSEED	69	111	59	119	68	122	1	116	72	109	32	111	15	119	4	124	6	129	8	121	19	126	--	--	5	116	9	125	25	116	2	134																
WARMOUTH	--	--	--	--	--	--	--	--	--	1	107	--	--	1	105	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--								
BLUEGILL	17	110	38	113	425	115	441	113	14	114	29	114	307	117	448	116	--	--	14	123	325	116	325	120	3	113	22	120	490	117	408	113																
SMALLMOUTH BASS	1	108	13	102	64	97	28	97	--	--	14	101	71	98	32	102	--	--	4	111	55	95	13	100	--	--	9	100	33	87	21	89																
LARGEMOUTH BASS	20	105	25	110	154	106	175	108	5	113	13	113	138	106	135	108	2	92	20	107	157	110	82	113	2	98	5	103	144	107	90	109																
WHITE CRAPPIE	--	--	2	96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	106	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--									
BLACK CRAPPIE	--	--	1	113	3	105	3	107	--	--	1	98	--	--	1	97	--	--	1	123	3	99	2	108	--	--	--	1	132	1	114	--	--															
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	1	88	1	74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--									
SAUGER	--	--	4	98	--	--	--	--	--	--	9	93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	91	--	--	--	--	--	--	--	--	--	--									
WALLEYE	--	--	--	--	1	120	--	--	--	--	--	--	1	89	--	--	--	--	--	--	1	104	--	--	--	--	--	--	1	84	2	94																
FRESHWATER DRUM	5	107	21	119	55	109	14	101	1	91	22	106	59	107	39	103	2	110	11	113	62	112	18	105	1	109	11	109	47	105	13	106																

TABLE 23 (cont.)

SPECIES	2012								2013							
	LOWER				UPSTRM				LOWER				UPSTRM			
	LOCKPORT		BRANDON		I-55		I-55		LOCKPORT		BRANDON		I-55		I-55	
	POOL		POOL		I-55		I-55		POOL		POOL		I-55		I-55	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	1	80	--	--	31	84	1	71	2	78	--	--	24	82	1	77
GIZZARD SHAD 31	94	98	94	253	95	126	98	37	92	135	96	319	91	212	85	
NORTHERN PIKE	--	--	--	--	1	91	--	--	--	--	1	127	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	84
RIVER CARPSUCKER	--	--	--	--	3	102	1	86	--	--	--	--	9	100	5	86
WHITE SUCKER	--	--	9	84	1	84	--	--	--	--	6	91	1	89	--	--
SMALLMOUTH BUFFALO	--	--	--	--	56	89	13	85	--	--	--	--	42	87	15	91
BIGMOUTH BUFFALO	--	--	--	--	1	85	2	87	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	6	104	--	--	--	--	--	--	7	88	2	82
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	3	115	35	117	7	119	10	101	4	102	44	107	19	104	9	91
CHANNEL CATFISH	2	107	32	109	58	111	14	111	13	104	38	107	114	107	17	113
FLATHEAD CATFISH	--	--	--	--	1	94	--	--	--	--	--	--	2	80	1	95
WHITE BASS	--	--	--	--	4	107	--	--	--	--	1	80	5	91	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	1	104	--	--	4	110
ROCK BASS	--	--	1	96	4	106	10	104	--	--	4	91	8	100	2	96
GREEN SUNFISH	267	123	330	119	556	120	193	121	161	121	117	123	359	116	184	120
PUMPKINSEED 125	119	143	116	130	122	13	119	179	115	126	116	91	117	41	118	
WARMOUTH	1	98	--	--	--	--	--	--	1	114	--	--	--	--	--	--
BLUEGILL	10	113	36	107	467	111	447	111	76	117	128	111	533	108	590	104
SMALLMOUTH BASS	--	--	6	115	16	96	2	82	--	--	17	100	14	88	2	104
LARGEMOUTH BASS 22	101	14	103	125	107	95	110	10	103	19	111	206	99	151	99	
WHITE CRAPPIE	--	--	1	101	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	1	107	--	--	--	--	2	97	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	2	91	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	6	112	30	110	8	100	3	108	17	104	47	103	11	98

Table 24. Longitudinal Comparisons of Mean Relative Weight Values for Selected Native Species, 1994, 1995, 2000-2002, and 2005-2013.

Species	Year	Lower					Significant Difference ^(a)	F Value	P Value
		Composite Mean	Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55			
Gizzard shad	2013 ^(b)	90	92 AB	96 A	91 B	85 C ^(d)	Yes	25.28	<0.01
	2012 ^(b)	95	94 B	94 B	95 AB	98 A ^(d)	Yes	3.31	0.02
	2011 ^(b)	96	++ ^(c)	98 A	98 A	93 B ^(d)	Yes	13.15	<0.01
	2010	102	100 B	107 A	103 AB	100 B ^(d)	Yes	4.66	<0.01
	2009	99	92 C	103 A	98 B	100 AB ^(d)	Yes	10.10	<0.01
	2008 ^(b)	99	97	99	100	101	No	1.81	0.15
	2007 ^(b)	95	89 C	96 B	98 AB	100 A	Yes	18.59	<0.01
	2006 ^(b)	95	90 B	96 A	97 A	94 AB ^(d)	Yes	6.20	<0.01
	2005 ^(b)	94	95 A	91 B	95 A	94 A ^(d)	Yes	5.28	<0.01
	2002 ^(b)	98	92 B	98 A	99 A	100 A ^(d)	Yes	9.62	<0.01
	2001 ^(b)	100	99	99	102	99	No	2.17	0.09
	2000 ^(b)	89	99 A	90 B	87 C	89 BC ^(d)	Yes	15.86	<0.01
	1995 ^(b)	107	++	99 B	111 A	105 A ^(d)	Yes	7.67	<0.01
	1994 ^(b)	101	++	98	99	104	No	1.16	0.32
Smallmouth buffalo	2013	88	--	--	87	91	No	0.87	0.35
	2012	88	--	--	89	85	No	2.45	0.12
	2011	85	--	--	84	85	No	0.24	0.62
	2010	87	--	--	86	91	Yes	4.28	0.04
	2009	86	--	--	86	83	No	1.16	0.28
	2008	88	--	++	87	88	No	0.13	0.72
	2007	89	--	++	93	93	No	0.01	0.92
	2006	85	--	++	84	87	No	2.28	0.13
	2005	87	--	++	87	86	No	0.08	0.78
	2002	92	--	++	93	91	No	0.65	0.42
	2001	93	--	--	93	91	No	0.94	0.34
	2000	90	--	--	93	88	Yes	4.74	0.03
	1995	94	--	--	95	93	No	0.43	0.52
	1994	96	--	--	82	89	Yes	7.15	0.01

Table 24 (cont.)

Species	Year	Composite Mean	Lower		Upstream I-55	Downstream I-55	Significant Difference ^(a)	F Value	P Value
			Lockport Pool	Brandon Pool					
Channel catfish	2013	108	104	107	107	113	No	1.13	0.34
	2012	110	++	109	111	111	No	0.41	0.67
	2011	111	++	110	112	109	No	0.42	0.66
	2010	112	++	108	113	116	No	1.83	0.16
	2009	108	97	106	109	107	Yes	3.44	0.02
			B	A	A	A ^(d)			
	2008	107	++	105	108	104	No	2.40	0.09
	2007	106	94	102	107	106	Yes	4.78	<0.01
			B	A	A	A ^(d)			
	2006	107	96	104	108	109	Yes	5.36	<0.01
			B	A	A	A ^(d)			
	2005	106	97	103	107	106	Yes	2.77	0.04
			B	AB	A	A ^(d)			
	2002 ^(b)	102	96	99	104	108	Yes	6.76	<0.01
			C	BC	AB	A ^(d)			
Green sunfish	2001 ^(b)	105	97	102	106	111	Yes	5.98	<0.01
			C	BC	AB	A ^(d)			
	2000	102	++	102	103	103	No	0.11	0.89
	1995	106	++	++	105	107	No	0.42	0.52
	1994 ^(b)	104	--	106	103	105	No	0.47	0.63
	2013 ^(b)	119	121	123	116	120	Yes	11.97	<0.01
			A	A	B	A ^(d)			
	2012 ^(b)	120	123	119	120	121	Yes	5.09	<0.01
			A	C	BC	AB ^(d)			
	2011	124	130	124	122	126	Yes	14.87	<0.01
			A	BC	C	B ^(d)			
	2010	126	123	126	125	127	No	1.12	0.34
	2009 ^(b)	123	123	123	122	122	No	0.75	0.52
	2008 ^(b)	119	119	120	118	120	No	1.89	0.13
	2007 ^(b)	119	118	120	118	120	No	1.08	0.36
	2006	118	114	120	115	120	Yes	6.04	<0.01
			B	A	AB	A ^(d)			
	2005 ^(b)	112	115	118	109	114	Yes	9.48	<0.01
			AB	A	B	AB ^(d)			
	2002 ^(b)	125	126	128	123	124	Yes	5.92	<0.01
			AB	A	B	B ^(d)			
	2001 ^(b)	120	118	117	121	122	No	2.04	0.11
	2000 ^(b)	115	109	113	115	117	No	2.32	0.07
	1995	126	++	131	123	127	No	1.77	0.18
	1994 ^(b)	122	++	124	118	127	Yes	7.40	<0.01
				A	B	A ^(d)			

Table 24 (cont.)

Species	Year	Lower					Significant Difference ^(a)	F Value	P Value
		Composite Mean	Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55			
Bluegill	2013 ^(b)	107	117 A	111 B	108 B	104 C ^(d)	Yes	28.20	<0.01
	2012 ^(b)	111	113	107	111	111	No	1.81	0.14
	2011 ^(b)	115	++	120 A	117 AB	113 B ^(d)	Yes	8.77	<0.01
	2010	118	--	123 AB	116 B	120 A ^(e)	Yes	4.12	0.02
	2009 ^(b)	116	114	114	117	116	No	0.32	0.81
	2008 ^(b)	114	110	113	115	113	No	2.40	0.07
	2007	113	++	115	113	113	No	0.15	0.86
	2006 ^(b)	112	++	115	113	111	No	2.22	0.11
	2005 ^(b)	106	--	++	105	107	No	2.05	0.15
	2002	113	106	116	114	113	No	1.41	0.24
	2001 ^(b)	111	++	++	110	111	No	0.80	0.37
	2000 ^(b)	106	++	++	104	106	Yes	5.60	0.02
	1995	126	--	++	123	128	No	0.98	0.33
	1994	112	--	--	++	113	--	--	--
Largemouth bass	2013	100	103 B	111 A	99 B	99 B ^(d)	Yes	5.40	<0.01
	2012	107	101 B	103 B	107 AB	110 A ^(d)	Yes	3.73	0.01
	2011 ^(b)	107	++	++	107	109	No	2.13	0.15
	2010 ^(b)	111	++	107	110	113	No	2.09	0.13
	2009 ^(b)	107	++	113	106	108	No	2.97	0.053
	2008	107	105 B	110 A	106 AB	108 AR ^(d)	Yes	2.72	0.04
	2007	106	++	109	106	105	No	0.60	0.55
	2006 ^(b)	102	101	++	103	102	No	0.06	0.94
	2005 ^(b)	106	99	103	106	108	No	2.43	0.07
	2002	108	++	++	107	110	No	3.20	0.07
	2001 ^(b)	108	++	++	105	112	Yes	12.73	<0.01
	2000 ^(b)	103	++	++	101	105	Yes	4.12	0.04
	1995 ^(b)	109	++	++	108	110	No	0.89	0.35
	1994	111	--	--	100	++	--	--	--

Table 24 (cont.)

Species	Year	Composite Mean	Lower Lockport Pool	Brandon Pool	Upstream I-55	Downstream I-55	Significant Difference ^(a)	F Value	P Value
Freshwater drum	2013	103	++	104	103	98	No	0.68	0.51
	2012	108	--	++	110	++	--	--	--
	2011	106	++	109	105	106	No	0.62	0.54
	2010 ^(b)	111	++	113 A	112 A	105 B ^(d)	Yes	3.78	0.03
	2009	106	++	106	107	103	No	1.08	0.34
	2008	110	++	119 A	109 B	101 C ^(b)	Yes	11.23	<0.01
	2007	110	++	110 A	113 A	102 B ^(d)	Yes	6.01	<0.01
	2006	104	++	107	104	101	No	1.92	0.15
	2005	111	++	117 A	111 AB	104 B ^(d)	Yes	5.90	<0.01
	2002	110	++	119 A	110 B	103 C ^(d)	Yes	12.35	<0.01
	2001	109	--	116 A	110 AB	104 B ^(d)	Yes	6.33	<0.01
	2000 ^(b)	103	--	108 A	105 AB	97 B ^(d)	Yes	3.46	0.04
	1995	109	--	++	114	105	Yes	8.94	<0.01
	1994	112	--	++	114	110	No	1.52	0.22

(a) Results of one-factor parametric Analysis of Variance tests ($\alpha=0.05$).

(b) Wr data log transformed for statistical analyses because they are not normally distributed.

(c) Small sample sizes precluded longitudinal analyses.

(d) Results of Duncan's Multiple Range Test; values with the same letters are not significantly different ($\alpha=0.05$).

(e) Results of Tukey's Studentized Range Test; values with the same letters are not significantly different ($\alpha=0.05$).

TABLE 25. INTERYEAR COMPARISONS OF MEAN RELATIVE WEIGHTS FOR NATIVE SPECIES FROM THE FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY.

LOWER LOCKPORT POOL																												
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	80	2	78
GIZZARD SHAD	1	90	8	121	47	99	21	99	138	92	100	95	80	90	144	89	132	97	66	92	21	100	10	98	31	94	37	92
NORTHERN PIKE	1	102	--	--	--	--	--	--	--	--	--	--	1	82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	3	109	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	1	89	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	3	84	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	4	102	3	103	1	114	4	124	3	115	3	104	1	118	2	138	3	115	4	102
CHANNEL CATFISH	--	--	1	95	5	101	19	97	22	96	10	97	13	96	10	94	5	92	12	97	6	97	7	94	2	107	13	104
WHITE BASS	--	--	--	--	--	--	1	94	--	--	--	--	--	--	--	--	1	106	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	1	73	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	123	--	--	--	--	--	--
GREEN SUNFISH	1	134	6	102	13	109	49	118	102	126	12	115	28	114	71	118	69	119	111	123	32	123	143	130	267	123	161	121
PUMPKINSEED	--	--	--	--	3	118	3	115	10	113	--	--	55	113	20	106	69	111	72	109	6	129	5	116	125	119	179	115
WARMOUTH	--	--	--	--	--	--	--	--	1	114	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	98	1	114
BLUEGILL	--	--	--	--	3	108	3	145	13	106	--	--	3	107	1	117	17	110	14	114	--	--	3	113	10	113	76	117
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	1	92	--	--	--	--	3	89	1	108	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	9	125	6	112	1	120	8	106	18	99	11	101	9	99	20	105	5	113	2	92	2	98	22	101	10	103
WHITE CRAPPIE	--	--	--	--	--	--	--	--	2	88	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	--	--	1	96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	1	92	3	103	4	110	6	103	4	102	5	107	1	91	2	110	1	109	--	--	3	108

BRANDON POOL																												
SPECIES	1994		1995		2000		2001		2002		2005		2006		2007		2008		2009		2010		2011		2012		2013	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	88	1	81	3	82	1	71	--	--	--	--	--	--
GIZZARD SHAD	13	98	24	99	317	90	79	99	284	98	183	91	175	96	112	96	86	99	108	103	48	107	117	98	98	94	135	96
NORTHERN PIKE	1	95	1	94	--	--	--	--	--	--	--	--	--	--	2	101	20	96	10	98	4	105	2	95	--	--	1	127
GOLDEN SHINER	--	--	--	--	--	--	1	166	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	50	92	12	91	2	86	11	93	14	94	6	99	5	94	2	96	3	89	11	87	26	92	23	94	9	84	6	91
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	1	113	3	88	3	106	1	86	1	99	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	1	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	1	97	--	--	--	--	--	--	1	103	--	--	--	--	--	--	--	--	--	--	1	86	--	--	--	--	--	--
YELLOW BULLHEAD	15	110	8	113	20	106	17	113	25	109	19	107	18	111	16	109	24	116	24	106	21	115	32	117	35	117	44	107
CHANNEL CATFISH	13	106	7	107	42	102	43	102	78	99	57	103	58	104	51	102	52	105	50	106	23	108	34	110	32	109	38	107
FLATHEAD CATFISH	--	--	--	--	--	--	1	79	1	50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	4	104	2	93	--	--	1	101	--	--	--	--	1	84	--	--	--	--	--	--	--	--	1	80
YELLOW BASS	--	--	11	87	4	94	8	101	2	114	1	103	--	--	2	99	3	126	--	--	7	122	--	--	--	--	1	104
ROCK BASS	--	--	--	--	--	--	--	--	--	--	1	98	1	109	1	125	3	97	1	118	1	93	--	--	1	96	4	91
GREEN SUNFISH	52	124	27	131	482	113	194	117	340	128	86	118	86	120	140	120	201	120	303	123	205	126	336	124	330	119	117	123
PUMPKINSEED	--	--	--	--	--	--	--	--	2	115	4	123	44	114	21	116	59	119	32	111	8	121	9	125	143	116	126	116
WARMOUTH	--	--	--	--	--	--	1	94	--	--	--	--	--	--	--	--	--	--	1	107	--	--	--	--	--	--	--	--
BLUEGILL	--	--	1	98	9	116	9	113	13	116	2	96	28	115	11	115	38	113	29	114	14	123	22	120	36	107	128	111
SMALLMOUTH BASS	--	--	--	--	1	95	--	--	3	107	1	88	1	104	2	95	13	102	14	101	4	111	9	100	6	115	17	100
LARGEMOUTH BASS	--	--	1	108	8	105	1	115	3	101	10	103	5	107	12	109	25	110	13	113	20	107	5	103	14	103	19	111
WHITE CRAPPIE	--	--	--	--	--	--	--	--	2	109	--	--	--	--	--	--	2	96	--	--	--	--	--	--	1	101	--	--
BLACK CRAPPIE	1	120	--	--	--	--	--	--	1	101	1	113	--	--	3	106	1	113	1	98	1	123	1	132	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	101	4	98	9	93	--	--	1	91	--	--	--	--
FRESHWATER DRUM	4	113	4	113	10	108	19	116	29	119	25	117	33	107	16	110	21	119	22	106	11	113	11	109	6	112	17	104

TABLE 25 (cont.)

UPSTREAM I-55																										
SPECIES	1994		1995		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	--	--	7	68	2	77	5	78	2	74	5	73	8	91	2	88	20	74	7	79	3	91	17	86	14	88
GIZZARD SHAD	31	99	86	111	111	113	180	96	246	99	387	87	255	102	297	99	358	89	578	91	269	95	462	97	164	98
NORTHERN PIKE	2	86	1	85	--	--	1	86	--	--	--	--	1	103	--	--	--	--	--	--	--	--	--	--	1	80
GOLDEN SHINER	--	--	--	--	--	--	--	--	1	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	9	102	11	104	21	98	8	97	11	91	11	95	5	102	12	93	5	91	2	94	3	95	2	100	3	102
WHITE SUCKER	4	98	15	91	3	92	6	90	2	88	1	83	3	92	2	86	12	93	4	79	--	--	--	--	1	91
SMALLMOUTH BUFFALO	14	82	26	95	47	91	50	90	56	91	40	93	54	93	68	93	64	88	66	85	70	87	58	84	62	93
BIGMOUTH BUFFALO	--	--	1	114	1	95	--	--	1	80	2	97	2	88	3	88	2	101	1	98	--	--	2	95	--	--
SHORTHEAD REDHORSE	3	105	5	89	12	100	4	93	7	92	10	91	4	101	4	95	5	91	2	96	2	95	2	106	2	101
BLACK BULLHEAD	1	94	2	79	--	--	4	97	--	--	1	61	--	--	--	--	--	1	113	--	--	--	--	--	--	--
YELLOW BULLHEAD	1	138	1	95	6	115	2	108	6	124	10	114	1	88	19	107	11	104	13	100	8	108	7	114	14	114
CHANNEL CATFISH	31	103	43	105	98	103	95	99	54	107	50	103	86	106	109	104	217	104	208	101	103	107	155	108	148	107
FLATHEAD CATFISH	--	--	--	--	1	90	1	82	--	--	2	91	1	149	2	90	8	89	3	78	5	91	2	81	2	85
WHITE BASS	1	95	1	108	3	105	4	108	3	94	4	95	6	98	12	98	7	91	4	91	3	90	5	88	1	95
YELLOW BASS	--	--	1	94	--	--	--	--	2	98	2	98	2	101	--	--	--	--	2	98	2	110	--	--	--	--
ROCK BASS	--	--	--	--	1	106	2	109	2	115	2	114	2	112	2	91	3	86	--	--	3	97	1	114	1	106
GREEN SUNFISH	89	118	78	123	256	124	450	123	366	119	400	115	381	121	586	123	754	112	485	110	333	109	308	115	390	118
PUMPKINSEED	--	--	--	--	--	--	6	107	1	68	--	--	--	--	--	--	1	133	--	--	3	111	18	109	11	116
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	108	--	--	--	--	--	--
BLUEGILL	5	109	25	123	60	114	143	108	84	108	246	104	210	110	337	114	504	106	462	100	207	105	350	113	264	113
SMALLMOUTH BASS	5	94	4	91	26	86	15	81	9	96	6	86	2	114	42	96	61	88	62	87	14	88	18	95	24	95
LARGEMOUTH BASS	15	100	24	108	71	105	113	106	86	105	92	101	101	105	199	107	243	101	288	100	125	106	209	103	118	106
WHITE CRAPPIE	--	--	3	95	--	--	2	96	1	82	1	101	--	--	1	89	1	112	--	--	1	153	1	112	--	--
BLACK CRAPPIE	--	--	3	99	1	117	8	103	4	100	4	98	2	126	9	107	7	103	9	95	--	--	2	116	6	119
YELLOW PERCH	--	--	--	--	2	123	2	101	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	100	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	1	94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6	88	--	--	--	--	--	--
FRESHWATER DRUM	26	114	26	114	90	112	70	111	47	104	64	105	69	110	89	110	81	106	86	108	51	111	49	104	64	113

TABLE 25 (cont.)

SPECIES	UPSTREAM I-55											
	2008		2009		2010		2011		2012		2013	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	21	90	25	84	30	83	27	79	31	84	24	82
GIZZARD SHAD	144	100	149	98	171	103	323	98	253	95	319	91
NORTHERN PIKE	6	93	1	83	3	79	2	87	1	91	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	5	95	2	98	6	99	4	93	3	102	9	100
WHITE SUCKER	--	--	1	82	--	--	2	79	1	84	1	89
SMALLMOUTH BUFFALO	49	87	62	86	54	86	43	84	56	89	42	87
BIGMOUTH BUFFALO	--	--	--	--	1	97	--	--	1	85	--	--
SHORthead REDHORSE	4	100	2	92	4	86	2	93	6	104	7	88
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	18	111	14	111	9	117	12	109	7	119	19	104
CHANNEL CATFISH	146	108	153	109	117	113	130	112	58	111	114	107
FLATHEAD CATFISH	3	96	--	--	1	84	1	100	1	94	2	80
WHITE BASS	4	94	1	111	3	98	--	--	4	107	5	91
YELLOW BASS	2	131	--	--	7	111	--	--	--	--	--	--
ROCK BASS	3	111	2	110	11	107	6	109	4	106	8	100
GREEN SUNFISH	547	118	539	122	436	125	606	122	556	120	359	116
PUMPKINSEED	68	122	15	119	19	126	25	116	130	122	91	117
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	425	115	307	117	325	116	490	117	467	111	533	108
SMALLMOUTH BASS	64	97	71	98	55	95	33	87	16	96	14	88
LARGEMOUTH BASS	154	106	138	106	157	110	144	107	125	107	206	99
WHITE CRAPPIE	--	--	--	--	1	106	--	--	--	--	--	--
BLACK CRAPPIE	3	105	--	--	3	99	1	114	--	--	2	97
YELLOW PERCH	--	--	1	88	--	--	--	--	--	--	2	91
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	1	120	1	89	1	104	1	84	--	--	--	--
FRESHWATER DRUM	55	109	59	107	62	112	47	105	30	110	47	103

TABLE 25 (cont.)

DOWNSTREAM I-55																										
SPECIES	1994		1995		1997		1998		1999		2000		2001		2002		2003		2004		2005		2006		2007	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	5	78	11	79	--	--	2	77	--	--	--	--	1	63	1	87	1	101	--	--	3	90	1	123	6	90
GIZZARD SHAD	41	104	105	105	191	110	211	96	308	101	474	89	262	99	256	100	381	91	339	91	163	94	243	94	84	100
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	100
RIVER CARPSUCKER	9	95	15	99	22	101	15	92	8	89	11	96	13	100	7	90	6	97	22	94	16	93	7	87	16	95
WHITE SUCKER	1	75	5	92	--	--	1	86	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	17	89	28	93	38	91	26	91	42	93	35	88	28	91	44	91	26	94	39	91	18	86	23	87	27	93
BIGMOUTH BUFFALO	2	103	--	--	5	95	3	96	3	104	2	82	--	--	4	102	1	56	2	103	2	82	--	--	1	82
SHORTHEAD REDHORSE	22	91	19	97	11	98	14	93	6	89	11	87	3	101	4	87	3	82	1	84	2	93	5	94	1	67
BLACK BULLHEAD	3	96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	86	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	3	103	--	--	3	111	3	96	6	92	13	102	5	103	9	103	14	97	4	96	--	--	3	102	1	92
CHANNEL CATFISH	22	105	36	107	20	96	17	103	27	114	28	103	31	111	50	108	57	106	59	104	31	106	34	109	24	106
FLATHEAD CATFISH	1	93	1	93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	12	101	1	111	1	116	1	103	1	94	--	--	2	114	1	110	2	115	--	--	--	--	1	131
YELLOW BASS	2	113	4	119	1	123	1	112	2	113	1	91	--	--	1	129	2	111	2	117	1	83	--	--	--	--
ROCK BASS	--	--	--	--	2	103	--	--	--	--	--	--	1	86	--	--	1	102	1	96	4	96	5	110	4	89
GREEN SUNFISH	51	127	16	127	57	126	164	119	154	121	253	117	91	122	265	124	493	115	329	106	307	114	273	120	290	120
PUMPKINSEED	3	126	1	143	--	--	10	136	8	131	1	125	--	--	6	118	12	110	3	109	3	113	1	123	--	--
WARMOUTH	--	--	--	--	--	--	1	81	--	--	1	101	--	--	--	--	--	--	1	100	1	111	--	--	--	--
BLUEGILL	25	113	41	128	127	116	288	118	344	111	581	106	197	111	479	113	610	106	542	101	386	107	487	111	343	113
SMALLMOUTH BASS	9	84	15	102	23	88	12	85	7	91	15	89	8	95	16	93	42	90	33	85	4	87	14	86	6	97
LARGEMOUTH BASS	8	116	22	110	51	110	137	113	132	108	145	105	87	112	137	110	217	105	251	103	135	108	243	102	126	105
WHITE CRAPPIE	--	--	--	--	1	127	6	123	2	108	5	107	--	--	2	143	4	113	4	102	--	--	1	115	--	--
BLACK CRAPPIE	1	98	1	97	4	106	6	122	4	104	8	103	1	89	8	112	6	101	7	107	2	99	--	--	1	99
YELLOW PERCH	--	--	--	--	--	--	1	68	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	100	2	110	--	--	--	--	--	--
FRESHWATER DRUM	40	110	37	105	47	115	49	112	34	100	25	97	38	104	31	103	36	103	49	103	23	104	22	101	19	102

TABLE 25 (cont.)

SPECIES	DOWNSTREAM I-55											
	2008		2009		2010		2011		2012		2013	
	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN	N	MEAN
LONGNOSE GAR	--	--	2	91	4	101	4	83	1	71	1	77
GIZZARD SHAD	101	101	46	100	155	100	278	93	126	98	212	85
GOLDEN SHINER	1	103	--	--	--	--	--	--	--	--	1	84
RIVER CARPSUCKER	10	90	8	96	3	97	--	--	1	86	5	86
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	18	88	14	83	20	91	21	85	13	85	15	91
BIGMOUTH BUFFALO	2	102	--	--	1	88	--	--	2	87	--	--
SHORthead REDHORSE	6	96	11	98	3	95	2	91	--	--	2	82
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	4	101	10	117	4	115	5	101	10	101	9	91
CHANNEL CATFISH	27	104	20	107	23	116	19	109	14	111	17	113
FLATHEAD CATFISH	--	--	--	--	1	84	--	--	--	--	1	95
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	4	113	--	--	2	120	--	--	--	--	4	110
ROCK BASS	9	100	16	106	28	108	24	114	10	104	2	96
GREEN SUNFISH	290	120	257	122	242	127	180	126	193	121	184	120
PUMPKINSEED	1	116	4	124	--	--	2	134	13	119	41	118
WARMOUTH	--	--	1	105	--	--	--	--	--	--	--	--
BLUEGILL	441	113	448	116	325	120	408	113	447	111	590	104
SMALLMOUTH BASS	28	97	32	102	13	100	21	89	2	82	2	104
LARGEMOUTH BASS	175	108	135	108	82	113	90	109	95	110	151	99
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	3	107	1	97	2	108	--	--	1	107	--	--
YELLOW PERCH	--	--	1	74	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	2	94	--	--	--	--
FRESHWATER DRUM	14	101	39	103	18	105	13	106	8	100	11	98

Table 26. Interyear Comparisons of Mean Relative Weight Values for Selected Native Species.

Species	Segment	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1995	1994	Significant Difference ^(a)	F Value	P Value
Longnose gar	US I-55 ^(b)	82	84	79	83	84	90	88	86	++ ^(c)	++	74	++	++	++	++	++	++	++	--	Yes	4.67	<0.01
		BC	ABC	CD	ABC	ABC	A	AB	AB			n ^(d)											
Gizzard shad	L. Lockport	92	94	98	100	92	97	89	90	95	--	--	92	99	99	--	--	--	++	++	Yes	5.87	<0.01
		BC	ABC	AB	A	BC	AB	C	C	ABC			BC	AB	AB								
	Brandon ^(b)	96	94	98	107	103	99	96	96	91	--	--	98	99	90	--	--	--	99	98	Yes	14.85	<0.01
		C	CD	C	A	AB	BC	C	C	D			C	C	D				BC	C			
	US I-55 ^(b)	91	95	98	103	98	100	98	97	95	91	89	99	102	87	99	96	113	111	99	Yes	43.65	<0.01
		E	D	CD	B	CD	BC	CD	D	D	E	EF	CD	BC	F	CD	D	A	A	CD			
	DS I-55 ^(b)	85	98	93	100	100	101	100	94	94	91	91	100	99	89	101	96	110	105	104	Yes	46.32	<0.01
		I	CD	FG	CD	C	C	C	FG	EF	GH	FGH	CD	CD	H	C	DE	A	B	C			
Smallmouth buffalo	US I-55 ^(b)	87	89	84	86	86	87	93	84	87	85	88	93	93	93	91	90	91	95	82	Yes	6.44	<0.01
		DEFGH	BCDEF	GHI	FGHI	EFGHI	DEFGH	AB	HI	DEFGH	FGHI	CDEFG	ABC	AB	ABC	ABCD	ABCDEF	ABCDE	A	I			
	DS I-55 ^(b)	91	85	85	91	83	88	93	87	86	91	94	91	91	88	93	91	91	93	89	Yes	2.35	<0.01
		ABCDE	EF	DEF	ABCDE	F	ABCDEF	AB	BCDEF	CDEF	ABCD	A	ABCD	ABCDE	ABCDEF	ABC	ABCDE	ABCD	AB	ABCDEF			
Yellow bullhead	Brandon	107	117	117	115	106	116	109	111	107	--	--	109	113	106	--	--	--	++	110	Yes	2.18	0.01
		AB	A	A	AB	B	AB	AB	AB	AB			AB	AB	B					AB			
	US I-55	104	++	109	++	111	111	114	++	++	100	104	107	++	114	++	++	++	++	++	No	1.33	0.23
Channel catfish	L. Lockport ^(b)	104	++	++	++	97	++	94	96	97	--	--	96	97	++	--	--	--	++	--	No	0.27	0.96
	Brandon ^(b)	107	109	110	108	106	105	102	104	103	--	--	99	102	102	--	--	--	++	106	Yes	2.25	0.01
		ABC	AB	A	AB	ABC	ABC	BC	ABC	ABC			C	BC	BC				ABC				
	US I-55	107	111	112	113	109	108	107	108	107	101	104	104	106	103	107	99	103	105	103	Yes	9.44	<0.01
		BCDE	AB	AB	A	ABC	BCD	BCDE	BCD	BCDE	GH	DEFG	EFG	CDEF	FGH	DEFG	H	EFGH	CDEFG	FGH			
	DS I-55 ^(b)	113	111	109	116	107	104	106	109	106	104	106	108	111	103	114	103	96	107	105	Yes	2.34	<0.01
		AB	ABC	ABC	A	ABC	CD	ABC	ABC	BC	CD	ABC	ABC	ABC	CD	ABC	CD	D	ABC	CD			
Green sunfish	L. Lockport ^(b)	121	123	130	123	123	119	118	114	115	--	--	126	118	109	--	--	--	++	++	Yes	7.83	<0.01
		BCD	ABC	A	ABC	ABC	BCDE	BCDE	EF	DEF			AB	CDE	F								
	Brandon ^(b)	123	119	124	126	123	120	120	120	118	--	--	128	117	113	--	--	--	131	124	Yes	23.22	<0.01
		BC	D	BC	AB	BC	CD	CD	CD	D			AB	DE	E				A	BC			
	US I-55 ^(b)	116	120	122	125	122	118	118	115	109	110	112	123	121	115	119	123	124	123	118	Yes	37.98	<0.01
		EF	BCD	AB	A	AB	DE	DE	F	H	H	G	AB	BCD	FG	CDE	BC	AB	AB	DE			
	DS I-55 ^(b)	120	121	126	127	122	120	120	120	114	106	115	124	122	117	121	119	126	127	127	Yes	26.24	<0.01
		CDE	BCDE	AB	A	ABCDE	DE	DEFG	DEF	H	I	GH	ABCD	BCDE	FGH	DE	EFGH	ABC	A	A			
Pumpkinseed	L. Lockport	115	119	++	++	109	111	106	113	--	--	--	113	111	111	--	--	--	--	--	Yes	5.30	<0.01
		AB	A			BC	ABC	C	ABC				ABC										
	Brandon ^(b)	116	116	++	++	111	119	116	114	++	--	--	++	--	--	--	--	--	--	--	No	1.21	0.30
	US I-55 ^(b)	117	122	116	126	119	122	116	109	++	--	++	--	--	--	++	++	--	--	--	Yes	3.48	<0.01
		AB	A	AB	A	A	A	AB	B														
	DS I-55 ^(b)	118	119	++	--	++	++	--	++	++	++	110	++	--	++	++	136	--	++	++	Yes	4.43	0.01
		B	B									B				A							

Table 26 (cont.)

Species	Segment	2013	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1995	1994	Significant Difference ^(a)	F Value	P Value
Bluegill	L. Lockport	117	113	++	--	114	110	++	++	--	--	--	106	++	++	--	--	--	--	--	No	1.83	0.13
	Brandon	111 BC	107 C	120 AB	123 A	114 ABC	113 BC	115 ABC	115 ABC	++	--	--	116 ABC	++	++	--	--	--	++	--	Yes	2.86	<0.01
	US I-55 ^(b)	108 FG	111 DE	117 B	116 BC	117 BC	115 BCD	113 CDE	113 CDE	105 GH	100 I	106 GH	114 BCD	110 EF	104 H	108 FGH	108 FG	114 CDE	123 A	++	Yes	41.85	<0.01
	DS I-55 ^(b)	104 HI	111 F	113 CDEF	120 B	116 BCD	113 CDEF	113 CDEF	111 F	107 G	101 I	106 GH	113 DEF	111 F	106 GH	111 F	118 BC	116 CDE	128 A	113 EF	Yes	49.08	<0.01
	US I-55	88 BCD	96 AB	87 CD	95 ABC	98 A	97 A	95 ABC	95 ABC	88 BCD	87 CD	88 BCD	96 AB	++	++	++	81 D	86 D	++	++	Yes	5.19	<0.01
Smallmouth bass	L. Lockport	103	101	++	++	++	105	++	101	99	--	--	++	++	++	--	--	--	++	--	No	0.82	0.52
Largemouth bass	Brandon	111	103	++	107	113	110	109	++	103	--	--	++	++	++	--	--	--	++	--	No	1.27	0.28
	US I-55 ^(b)	99 F	107 AB	107 ABC	110 A	106 ABCD	106 ABCD	106 ABCD	103 CDEF	106 ABC	100 EF	101 CDEF	107 AB	105 BCDE	101 DEF	105 BCD	106 ABC	105 ABCD	108 AB	100 EF	Yes	8.07	<0.01
	DS I-55 ^(b)	99 H	110 ABCD	109 ABCDE	113 A	108 BCDEF	108 BCDEF	105 EFG	102 GH	108 CDEF	103 G	105 DEFG	110 ABCD	112 AB	105 FG	108 BCDEF	113 A	110 ABC	110 ABCDE	++	Yes	12.92	<0.01
Freshwater drum	Brandon	104 D	++	109 ABCD	113 ABCD	106 CD	119 A	110 ABCD	107 BCD	117 AB	--	--	119 A	116 ABC	108 BCD	--	--	--	++	++	Yes	3.36	<0.01
	US I-55 ^(b)	103 G	110 ABCDEF	105 DEFG	112 AB	107 BCDEFG	109 ABCDEF	113 AB	104 G	111 ABCD	108 ABCDEFG	106 CDEFG	110 ABCDE	110 ABCDEF	105 EFG	104 FG	111 ABCD	112 ABC	114 A	114 A	Yes	3.74	<0.01
	DS I-55 ^(b)	98 EF	++	106 ABCD	105 BCDE	103 CDEF	101 DEF	102 DEF	101 DEF	104 BCDE	103 CDEF	103 CDEF	103 CDEF	104 CDEF	97 F	100 DEF	112 AB	115 A	105 BCDE	110 ABC	Yes	4.83	<0.01

(a) Results of one-factor parametric Analysis of Variance tests (alpha=0.05).
(b) W_r data log transformed for statistical analyses because they are not normally distributed.
(c) Small sample sizes precluded interyear analyses.
(d) Results of Duncan's Multiple Range Test; values with the same letters are not significantly different (alpha=0.05)

TABLE 27. INCIDENCE OF DELT ANOMALIES WITHIN LOWER LOCKPORT POOL, 1994, 1995, 2000-2002, AND 2005-2013.

SPECIES	1994			1995			2000			2001			2002			2005			2006			
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	1	--	
ALEWIFE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
GIZZARD SHAD	--	2	--	--	61	--	1	401	0.2	3	1,610	0.2	1	2,417	0.0	--	1,139	--	2	627	0.3	
THREADFIN SHAD	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	
RAINBOW TROUT	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
GRASS PICKEREL	--	1	--	--	--	--	--	5	--	--	1	--	--	--	--	--	--	--	--	--	--	
NORTHERN PIKE	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	100.0	
GOLDFISH	--	9	--	--	2	--	--	--	--	--	--	--	1	2	50.0	--	--	--	--	--	--	
COMMON CARP	12	40	30.0	16	58	27.6	21	52	40.4	19	64	29.7	47	139	33.8	50	70	71.4	11	38	28.9	
CARP X GOLDFISH HYBRID	1	6	16.7	--	15	--	1	1	100.0	--	1	--	1	2	50.0	--	--	--	--	1	--	
GOLDEN SHINER	--	1	--	--	--	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	
EMERALD SHINER	--	3	--	--	21	--	--	50	--	1	163	0.6	--	170	--	--	19	--	--	57	--	
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	3	--	--	1	--	--	--	--	--	1	--	
SPOTFIN SHINER	--	--	--	--	--	--	--	16	--	--	6	--	--	19	--	--	2	--	--	--	--	
SAND SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	
BLUNTNOSE MINNOW	--	2	--	--	2	--	--	7	--	--	242	--	--	162	--	--	64	--	--	83	--	
FATHEAD MINNOW	--	1	--	--	1	--	--	--	--	--	1	--	--	6	--	--	--	--	--	1	--	
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	1	1	100.0	--	--	--	--	--	--	
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	3	--	
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	--	--	
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	1	4	25.0	2	3	66.7	--	1	--	
CHANNEL CATFISH	--	--	--	1	1	100.0	5	5	100.0	15	20	75.0	16	22	72.7	8	10	80.0	12	13	92.3	
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	1	--	--	--	--	--	3	--	--	1	--	--	--	--	
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	2	--	--	--	--	--	27	--	--	1	--	--	1	--	
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	
THREESPINE STICKLEBACK	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
WHITE PERCH	--	--	--	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--	--	--	--	
WHITE BASS	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	
YELLOW BASS	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
GREEN SUNFISH	--	1	--	--	6	--	--	15	--	2	75	2.7	--	110	--	--	13	--	2	31	6.5	
PUMPKINSEED	--	--	--	--	--	--	--	2	--	--	3	--	--	10	--	--	--	--	3	55	5.5	
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	1	--	
BLUEGILL	--	1	--	--	--	--	1	4	25.0	--	19	--	1	26	3.8	--	7	--	1	6	16.7	
NORTHERN SUNFISH	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	
Lepomis HYBRID	--	1	--	--	--	--	--	--	--	--	1	--	--	2	--	--	1	--	1	3	33.3	
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SMALLMOUTH BASS	--	--	--	--	1	--	--	--	--	--	1	--	--	1	--	--	--	--	--	1	--	
LARGEMOUTH BASS	--	1	--	--	66	--	2	24	8.3	3	22	13.6	2	17	11.8	1	23	4.3	5	27	18.5	
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	1	2	50.0	--	--	--	--	--	
BLACK CRAPPIE	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	1	--	--	2	3	66.7	--	5	--	5	6	83.3
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--	--	1	--	--	--	--	
TOTAL FISH	13	71	18.3	17	237	7.2	31	591	5.2	43	2,249	1.9	74	3,175	2.3	61	1,360	4.5	43	958	4.5	

TABLE 27 (cont.)

SPECIES	2007			2008			2009			2010			2011			2012			2013		
	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	2	--
SKIPJACK HERRING	--	--	--	--	1	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
ALEWIFE	--	--	--	--	--	--	--	--	--	--	--	--	--	9	--	--	--	--	--	--	--
GIZZARD SHAD	1	942	0.1	--	932	--	2	354	0.6	--	906	--	1	807	0.1	1	966	0.1	--	212	--
THREADFIN SHAD	--	--	--	--	8	--	--	64	--	--	61	--	--	--	--	--	44	--	--	26	--
RAINBOW TROUT	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	1	--	--	4	--	--	1	--	--	1	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	--	1	--	--	1	--	--	3	--	--	1	--	--	--	--	2	8	25.0	--	--	--
COMMON CARP	10	41	24.4	4	26	15.4	14	22	63.6	--	14	--	6	31	19.4	4	15	26.7	10	17	58.8
CARP X GOLDFISH HYBRID	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
GOLDEN SHINER	--	4	--	--	--	--	--	3	--	--	1	--	--	--	--	--	25	--	--	4	--
EMERALD SHINER	--	128	--	--	45	--	--	120	--	--	50	--	--	1	--	--	49	--	--	11	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	7	--	--	16	--	--	6	--	--	4	--	--	2	--	--	23	--	--	4	--
SAND SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	--	227	--	--	331	--	--	349	--	--	237	--	--	60	--	--	282	--	--	141	--
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	7	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	2	--	--	2	--	--	2	--	--	1	--	--	17	--	--	61	--	2	19	10.5
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	5	--	--	3	--	--	4	--	--	1	--	--	3	--	--	3	--	--	5	--
CHANNEL CATFISH	10	11	90.9	4	5	80.0	10	12	83.3	4	6	66.7	7	7	100.0	2	2	100.0	10	13	76.9
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	3	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	1	--	--	--	--	--	2	--	--	--	--	--	--	--	--	1	--
WESTERN MOSQUITOFISH	--	7	--	--	5	--	--	--	--	--	--	--	--	2	--	--	265	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
THREESPINE STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE PERCH	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	1	84	1.2	3	85	3.5	1	133	0.8	--	97	--	3	175	1.7	2	657	0.3	10	183	5.5
PUMPKINSEED	--	19	--	1	69	1.4	1	72	1.4	--	6	--	--	5	--	1	171	0.6	2	210	1.0
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	--
ORANGESPOTTED SUNFISH	1	1	100.0	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	1	--
BLUEGILL	--	22	--	5	45	11.1	--	26	--	--	6	--	--	14	--	--	232	--	3	225	1.3
NORTHERN SUNFISH	--	7	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	2	--
Lepomis HYBRID	--	25	--	--	23	--	--	13	--	--	--	--	--	2	--	--	7	--	--	2	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
SMALLMOUTH BASS	--	4	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	4	19	21.1	4	42	9.5	--	33	--	--	29	--	1	22	4.5	--	25	--	4	53	7.5
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	1	4	25.0	2	6	33.3	--	1	--	--	2	--	--	1	--	--	--	--	3	3	100.0
ROUND GOBY	--	1	--	--	15	--	--	44	--	--	--	--	--	1	--	--	1	--	--	6	--
TOTAL FISH	28	1,562	1.8	23	1,663	1.4	28	1,264	2.2	4	1,444	0.3	18	1,168	1.5	12	2,848	0.4	44	1,145	3.8

NOTE: DELT# = Number of fish with DELT anomalies; EXAM# = Number of fish examined for DELT anomalies;
DELT% = Percentage of examined fish with DELT anomalies. 0.0 DENOTES VALUES LESS THAN 0.05.

TABLE 28. INCIDENCE OF DELT ANOMALIES WITHIN BRANDON POOL, 1994, 1995, 2000-2002, AND 2005-2013.

SPECIES	1994			1995			2000			2001			2002		
	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	2	--	--	1	--	--	1	--	--	10	--	--	5	--
GIZZARD SHAD	1	13	7.7	2	78	2.6	4	647	0.6	1	671	0.1	5	1,822	0.3
THREADFIN SHAD	--	--	--	--	--	--	--	33	--	2	52	3.8	--	8	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	1	18	5.6	--	2	--	--	1	--
NORTHERN PIKE	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	1	14	7.1	2	22	9.1	1	2	50.0	1	1	100.0	--	3	--
GRASS CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
COMMON CARP	76	216	35.2	69	184	37.5	88	284	31.0	58	166	34.9	44	124	35.5
CARP X GOLDFISH HYBRID	10	29	34.5	6	30	20.0	3	15	20.0	3	10	30.0	--	1	--
GOLDEN SHINER	--	--	--	--	--	--	1	16	6.3	--	1	--	--	1	--
EMERALD SHINER	--	2	--	--	26	--	1	176	0.6	--	422	--	2	592	0.3
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	3	--	1	1	100.0	--	--	--	--	3	--	--	4	--
SPOTFIN SHINER	--	--	--	--	--	--	--	12	--	--	13	--	--	10	--
SAND SHINER	--	--	--	--	2	--	1	2	50.0	--	1	--	--	--	--
BLUNTNOST MINNOW	--	35	--	--	609	--	--	482	--	--	393	--	3	696	0.4
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	2	61	3.3	1	14	7.1	2	3	66.7	--	33	--	--	14	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
SILVER REDHORSE	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--
BLACK BULLHEAD	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--
YELLOW BULLHEAD	2	15	13.3	1	10	10.0	4	20	20.0	--	16	--	4	25	16.0
CHANNEL CATFISH	13	13	100.0	5	7	71.4	31	48	64.6	41	57	71.9	60	88	68.2
Ameiurus sp.	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	--	--	--	1	--	--	3	--	--	2	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	1	1	100.0	1	1	100.0
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	1	--	--	20	--	--	--	--	--	3	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE PERCH	--	1	--	--	2	--	3	12	25.0	--	16	--	--	1	--
WHITE BASS	--	--	--	--	--	--	--	4	--	--	3	--	--	--	--
YELLOW BASS	--	--	--	--	12	--	1	4	25.0	--	8	--	--	2	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	2	57	3.5	--	29	--	25	756	3.3	14	200	7.0	1	566	0.2
PUMPKINSEED	--	--	--	--	--	--	--	--	--	--	--	--	1	2	50.0
WARMOUTH	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	13	--	--	1	--	--	6	--
BLUEGILL	--	--	--	1	4	25.0	3	49	6.1	--	26	--	--	34	--
NORTHERN SUNFISH	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
Lepomis HYBRID	--	--	--	--	--	--	--	4	--	--	--	--	--	7	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	--	--	--	--	--	1	--	--	--	--	2	4	50.0
LARGEMOUTH BASS	--	--	--	1	24	4.2	6	44	13.6	--	7	--	1	12	8.3
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--
BLACK CRAPPIE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	6	--	--	2	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	3	4	75.0	1	4	25.0	4	11	36.4	5	19	26.3	12	30	40.0
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	1	--	--	10	--
TOTAL FISH	110	470	23.4	90	1,062	8.5	179	2,685	6.7	126	2,149	5.9	136	4,089	3.3

TABLE 28 (cont.)

SPECIES	2005			2006			2007			2008			2009		
	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %	DELT #	EXAM #	DELT %
LONGNOSE GAR	--	--	--	--	--	--	--	1	--	--	1	--	--	3	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	1	1,012	0.1	--	510	--	2	1,262	0.2	1	1,249	0.1	--	499	--
THREADFIN SHAD	--	--	--	--	6	--	--	1	--	--	44	--	--	23	--
Dorosoma sp.	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	1	6	16.7	--	7	--	--	6	--
NORTHERN PIKE	--	--	--	--	--	--	--	2	--	--	14	--	--	8	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	4	--	--	1	--	--	--	--
GOLDFISH	--	1	--	--	1	--	--	149	--	2	13	15.4	--	5	--
GRASS CARP	1	1	100.0	--	--	--	1	1	100.0	--	--	--	--	2	--
COMMON CARP	37	71	52.1	11	83	13.3	52	129	40.3	27	97	27.8	36	54	66.7
CARP X GOLDFISH HYBRID	--	1	--	--	5	--	--	3	--	--	1	--	--	--	--
GOLDEN SHINER	--	1	--	--	2	--	--	2	--	--	2	--	--	--	--
EMERALD SHINER	--	144	--	--	649	--	--	556	--	--	436	--	--	191	--
GHOST SHINER	--	--	--	--	--	--	--	2	--	--	--	--	--	2	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	5	--	--	--	--	--	23	--	--	1	--	--	--	--
SPOTFIN SHINER	--	10	--	--	22	--	--	27	--	--	35	--	--	32	--
SAND SHINER	--	--	--	--	--	--	--	6	--	--	1	--	--	2	--
BLUNTNOSE MINNOW	--	241	--	--	436	--	--	1,145	--	1	874	0.1	--	494	--
FATHEAD MINNOW	--	--	--	--	1	--	--	1	--	--	1	--	--	8	--
BULLHEAD MINNOW	--	--	--	--	2	--	--	1	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	2	12	16.7	2	5	40.0	1	2	50.0	--	3	--	--	30	--
SMALLMOUTH BUFFALO	--	4	--	2	3	66.7	--	1	--	--	1	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
SILVER REDHORSE	1	2	50.0	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	4	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	5	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	--	--	--	1	--	--	--	--	--	1	--	--	4	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	5	19	26.3	7	19	36.8	2	15	13.3	2	24	8.3	1	24	4.2
CHANNEL CATFISH	53	57	93.0	55	60	91.7	44	51	86.3	45	55	81.8	49	51	96.1
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	--	--	--	3	--	--	5	--	--	1	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	3	--	--	3	--	--	--	--	--	6	--	--	3	--
WESTERN MOSQUITOFISH	--	1	--	--	1	--	--	2	--	--	6	--	--	1	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
WHITE PERCH	--	--	--	--	1	--	--	1	--	--	7	--	--	2	--
WHITE BASS	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--
YELLOW BASS	--	1	--	--	--	--	--	2	--	--	3	--	--	--	--
ROCK BASS	--	1	--	--	1	--	--	1	--	--	3	--	--	1	--
GREEN SUNFISH	1	97	1.0	3	110	2.7	3	158	1.9	3	217	1.4	1	378	0.3
PUMPKINSEED	--	--	--	1	42	2.4	--	16	--	1	53	1.9	1	32	3.1
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
ORANGESPOTTED SUNFISH	--	5	--	--	6	--	--	3	--	--	2	--	--	2	--
BLUEGILL	--	16	--	--	44	--	1	32	3.1	--	79	--	--	57	--
NORTHERN SUNFISH	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
Lepomis HYBRID	--	7	--	--	16	--	1	22	4.5	--	7	--	--	6	--
Lepomis sp.	--	--	--	--	--	--	--	3	--	--	3	--	--	--	--
SMALLMOUTH BASS	--	2	--	--	1	--	--	5	--	--	17	--	--	23	--
LARGEMOUTH BASS	3	11	27.3	1	35	2.9	3	35	8.6	3	61	4.9	--	89	--
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
BLACK CRAPPIE	--	1	--	--	--	--	--	3	--	--	2	--	--	1	--
JOHNNY DARTER	--	--	--	--	3	--	--	9	--	--	2	--	--	1	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
BLACKSIDE DARTER	--	--	--	--	1	--	--	2	--	--	4	--	--	2	--
SAUGER	--	--	--	--	--	--	--	2	--	--	4	--	--	9	--
WALLEYE	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	11	25	44.0	16	33	48.5	6	17	35.3	5	21	23.8	10	22	45.5
ROUND GOBY	--	29	--	--	11	--	--	51	--	--	96	--	--	194	--
TOTAL FISH	115	1,784	6.4	98	2,113	4.6	117	3,766	3.1	90	3,462	2.6	98	2,270	4.3

TABLE 28 (cont.)

SPECIES	2010			2011			2012			2013		
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT
	#	#	%	#	#	%	#	#	%	#	#	%
LONGNOSE GAR	--	1	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	1	1	100.0	--	--	--
SKIPJACK HERRING	--	--	--	--	1	--	--	1	--	--	--	--
GIZZARD SHAD	2	1,374	0.1	5	1,928	0.3	2	1,746	0.1	1	603	0.2
THREADFIN SHAD	--	98	--	--	--	--	--	8	--	--	10	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	2	--	--	6	--	--	--	--	--	--	--
GRASS PICKEREL	--	3	--	--	6	--	--	--	--	--	--	--
NORTHERN PIKE	--	3	--	--	2	--	--	--	--	--	1	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	2	8	25.0	1	9	11.1	--	51	--	1	11	9.1
GRASS CARP	--	1	--	--	--	--	--	--	--	--	--	--
COMMON CARP	36	101	35.6	27	78	34.6	48	88	54.5	28	42	66.7
CARP X GOLDFISH HYBRID	1	5	20.0	--	--	--	1	2	50.0	--	1	--
GOLDEN SHINER	--	--	--	--	1	--	--	4	--	--	3	--
EMERALD SHINER	--	178	--	--	60	--	--	43	--	--	23	--
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--
COMMON SHINER	--	1	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	20	--	--	9	--	--	--	--	--	--	--
SPOTFIN SHINER	--	24	--	--	18	--	--	17	--	1	5	20.0
SAND SHINER	--	4	--	--	--	--	--	3	--	--	--	--
BLUNTNOSE MINNOW	--	349	--	--	162	--	--	454	--	--	265	--
FATHEAD MINNOW	--	--	--	--	1	--	--	1	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	1	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	3	60	5.0	2	28	7.1	4	9	44.4	--	9	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	1	--	--	2	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	5	--	--	--	--	--	15	--	--	10	--
BLACK BULLHEAD	1	1	100.0	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	3	24	12.5	7	29	24.1	2	29	6.9	7	45	15.6
CHANNEL CATFISH	18	26	69.2	28	37	75.7	26	32	81.3	35	38	92.1
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	7	--	--	5	--	--	9	--	--	4	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	1	--
BLACKSTRIPED TOPMINNOW	--	2	--	--	24	--	--	16	--	--	3	--
WESTERN MOSQUITOFISH	--	6	--	--	9	--	--	56	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--
WHITE PERCH	--	21	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	1	--
YELLOW BASS	--	14	--	--	--	--	--	--	--	--	1	--
ROCK BASS	--	1	--	--	--	--	--	6	--	--	7	--
GREEN SUNFISH	1	445	0.2	2	413	0.5	7	446	1.6	4	146	2.7
PUMPKINSEED	--	8	--	--	10	--	1	214	0.5	--	96	--
WARMOUTH	--	--	--	--	--	--	--	1	--	--	--	--
ORANGESPOTTED SUNFISH	--	13	--	--	17	--	--	16	--	--	35	--
BLUEGILL	--	100	--	2	193	1.0	--	498	--	7	229	3.1
NORTHERN SUNFISH	--	--	--	--	1	--	--	--	--	--	2	--
Lepomis HYBRID	--	4	--	--	2	--	--	3	--	--	10	--
Lepomis sp.	--	--	--	--	9	--	--	14	--	--	2	--
SMALLMOUTH BASS	--	9	--	3	14	21.4	3	12	25.0	3	48	6.3
LARGEMOUTH BASS	3	102	2.9	--	44	--	2	20	10.0	4	82	4.9
WHITE CRAPPIE	--	--	--	--	2	--	1	1	100.0	--	--	--
BLACK CRAPPIE	--	1	--	--	1	--	--	--	--	--	--	--
JOHNNY DARTER	--	1	--	--	4	--	--	1	--	--	1	--
LOGPERCH	--	1	--	--	2	--	--	--	--	--	3	--
BLACKSIDE DARTER	--	8	--	--	9	--	--	10	--	--	3	--
SAUGER	--	--	--	--	1	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	3	11	27.3	4	11	36.4	4	6	66.7	8	17	47.1
ROUND GOBY	1	126	0.8	--	137	--	--	179	--	1	208	0.5
TOTAL FISH	74	3,170	2.3	81	3,285	2.5	102	4,012	2.5	100	1,965	5.1

NOTE: DELT# = Number of fish with DELT anomalies; EXAM# = Number of fish examined for DELT anomalies;
DELT% = Percentage of examined fish with DELT anomalies.

TABLE 29. INCIDENCE OF DELT ANOMALIES WITHIN THE UPSTREAM I-55 SEGMENT, 1994, 1995, AND 1997-2013.

SPECIES	1994			1995			1997			1998			1999			2000			2001		
	DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM	
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
LONGNOSE GAR	--	--	--	1	7	14.3	--	5	--	--	10	--	--	2	--	--	8	--	--	12	--
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
SKIPJACK HERRING	--	5	--	--	2	--	--	1	--	--	2	--	--	2	--	--	1	--	--	7	--
ALEWIFE	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	2	67	3.0	4	219	1.8	1	358	0.3	6	739	0.8	2	562	0.4	9	539	1.7	4	1,620	0.2
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	22	--	--	11	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEYE	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--
NORTHERN PIKE	--	3	--	--	2	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	3	--
GOLDFISH	--	4	--	1	4	25.0	--	3	--	2	2	100.0	--	--	--	--	4	--	1	5	20.0
GRASS CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--
COMMON CARP	86	177	48.6	105	207	50.7	159	409	38.9	102	307	33.2	56	191	29.3	68	184	37.0	115	310	37.1
CARP X GOLDFISH HYBRID	8	51	15.7	8	66	12.1	16	87	18.4	7	71	9.9	4	32	12.5	4	26	15.4	6	21	28.6
BIGHEAD CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HORNYHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	10	--	--	1	--	--	--	--	--	1	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	29	--	--	24	--	--	259	--	--	771	--	--	176	--	3	153	2.0	--	485	--
GHOST SHINER	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--	1	--
STRIPED SHINER	--	3	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	1	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	9	--	--	18	--	1	7	14.3	--	14	--	--	6	--	--	8	--	--	122	--
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	2	--	--	5	--	--	8	--	--	21	--	--	9	--	--	25	--	--	45	--
SAND SHINER	--	--	--	--	1	--	--	1	--	--	8	--	--	--	--	--	8	--	--	6	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
MIMIC SHINER	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	2	--	--	1	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	79	--	1	77	1.3	--	185	--	--	654	--	--	146	--	--	123	--	--	584	--
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	3	--	--	13	--	--	13	--	--	2	--	--	11	--	--	107	--
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	7	11	63.6	4	11	36.4	5	21	23.8	1	8	12.5	3	11	27.3	4	11	36.4	1	9	11.1
QUILLBACK	4	10	40.0	3	10	30.0	3	18	16.7	2	11	18.2	3	4	75.0	3	11	27.3	4	11	36.4
HIGHFIN CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpiodes sp.	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	1	4	25.0	5	16	31.3	--	3	--	2	6	33.3	--	2	--	--	1	--	--	4	--
SMALLMOUTH BUFFALO	8	19	42.1	13	31	41.9	25	59	42.4	23	60	38.3	18	60	30.0	15	48	31.3	22	62	35.5
BIGMOUTH BUFFALO	--	--	--	1	2	50.0	--	1	--	--	--	--	--	1	--	1	3	33.3	--	2	--
BLACK BUFFALO	1	4	25.0	1	1	100.0	--	--	--	2	2	100.0	1	3	33.3	2	2	100.0	1	2	50.0
SPOTTED SUCKER	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	1	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	4	4	100.0	1	1	100.0	1	1	100.0	1	1	100.0
RIVER REDHORSE	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 29 (cont.)

SPECIES	1994			1995			1997			1998			1999			2000			2001		
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
GOLDEN REDHORSE	2	2	100.0	3	3	100.0	1	1	100.0	--	3	--	--	1	--	1	1	100.0	--	--	--
SHORTHEAD REDHORSE	2	4	50.0	4	7	57.1	5	13	38.5	4	6	66.7	3	7	42.9	5	12	41.7	2	5	40.0
Moxostoma sp.	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	1	1	100.0	--	2	--	--	--	--	--	5	--	--	--	--	1	1	100.0	--	--	--
YELLOW BULLHEAD	1	1	100.0	--	1	--	1	6	16.7	--	3	--	--	6	--	--	9	--	--	1	--
CHANNEL CATFISH	25	32	78.1	29	44	65.9	80	98	81.6	71	100	71.0	33	56	58.9	40	72	55.6	67	88	76.1
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	1	1	100.0	--	1	--	--	--	--	2	2	100.0	1	1	100.0
BLACKSTRIPE TOPMINNOW	--	1	--	--	--	--	--	4	--	--	12	--	--	1	--	--	5	--	--	2	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	2	--	--	--	--	--	1	--	--	--	--	--	--	--
WHITE PERCH	--	--	--	--	--	--	--	1	--	--	1	--	--	4	--	--	5	--	--	3	--
WHITE BASS	--	1	--	--	1	--	--	3	--	--	3	--	--	3	--	--	4	--	--	5	--
YELLOW BASS	--	--	--	--	1	--	--	--	--	--	--	--	--	3	--	--	2	--	--	2	--
Morone HYBRID	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID STRIPER	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	1	--
Morone sp.	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	1	--	--	3	--	1	3	33.3	--	3	--	--	3	--
GREEN SUNFISH	5	102	4.9	5	82	6.1	18	297	6.1	34	764	4.5	31	519	6.0	24	490	4.9	23	404	5.7
PUMPKINSEED	--	--	--	--	--	--	--	--	--	--	6	--	--	1	--	--	--	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	3	--	--	7	--	--	56	--	1	58	1.7	2	50	4.0	1	29	3.4	--	3	--
BLUEGILL	2	9	22.2	1	30	3.3	4	103	3.9	7	257	2.7	3	186	1.6	14	380	3.7	5	480	1.0
REDEAR SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN SUNFISH	--	4	--	--	--	--	--	6	--	--	3	--	--	1	--	--	25	--	--	19	--
Lepomis HYBRID	--	2	--	--	3	--	--	24	--	--	74	--	3	142	2.1	2	98	2.0	2	50	4.0
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--
SMALLMOUTH BASS	--	7	--	--	8	--	3	29	10.3	--	38	--	1	21	4.8	--	7	--	1	24	4.2
LARGEMOUTH BASS	1	20	5.0	9	37	24.3	10	116	8.6	13	174	7.5	20	138	14.5	17	144	11.8	21	145	14.5
WHITE CRAPPIE	--	--	--	1	3	33.3	--	--	--	--	2	--	--	1	--	--	2	--	--	--	--
BLACK CRAPPIE	--	--	--	--	3	--	--	1	--	2	8	25.0	--	4	--	--	4	--	--	2	--
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	2	--	--	2	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	1	--	--	1	--	1	1	100.0	--	2	--	--	1	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	5	27	18.5	8	26	30.8	41	94	43.6	35	80	43.8	29	52	55.8	26	91	28.6	33	71	46.5
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
TOTAL FISH	161	697	23.1	207	970	21.3	374	2,302	16.2	318	4,330	7.3	215	2,416	8.9	243	2,582	9.4	310	4,755	6.5

TABLE 29 (cont.)

SPECIES	2002			2003			2004			2005			2006			2007			2008		
	DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM	
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
LONGNOSE GAR	--	8	--	--	22	--	--	8	--	--	5	--	--	17	--	1	15	6.7	--	24	--
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	6	--	--	--	--	--	4	--	--	1	--	--	--	--	--	1	--	--	8	--
ALEWIFE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	7	1,856	0.4	4	589	0.7	9	739	1.2	2	2,304	0.1	3	727	0.4	3	1,373	0.2	5	973	0.5
THREADFIN SHAD	--	10	--	--	--	--	--	25	--	--	--	--	--	46	--	--	--	--	--	53	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
GOLDEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	6	16.7
CENTRAL STONEROLLER	--	--	--	--	7	--	--	--	--	--	--	--	--	--	--	--	2	--	--	6	--
GOLDFISH	--	4	--	2	8	25.0	--	--	--	--	7	--	1	7	14.3	2	39	5.1	2	24	8.3
GRASS CARP	--	1	--	--	1	--	--	--	--	--	2	--	--	--	--	1	1	100.0	1	1	100.0
COMMON CARP	97	253	38.3	79	186	42.5	86	135	63.7	71	213	33.3	17	123	13.8	59	167	35.3	71	175	40.6
CARP X GOLDFISH HYBRID	--	18	--	5	12	41.7	2	4	50.0	--	--	--	--	1	--	--	7	--	--	13	--
BIGHEAD CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	5	--	--	16	--	1	1	100.0	--	2	--	--	6	--	--	3	--	--	16	--
PALLID SHINER	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	920	--	--	298	--	--	129	--	--	139	--	--	359	--	--	370	--	--	200	--
GHOST SHINER	--	3	--	--	1	--	--	1	--	--	--	--	--	4	--	--	4	--	--	1	--
STRIPED SHINER	--	1	--	--	6	--	--	--	--	--	3	--	--	16	--	--	33	--	--	11	--
BIGMOUTH SHINER	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
SPOTTAIL SHINER	--	62	--	3	102	2.9	--	23	--	--	19	--	--	9	--	--	92	--	--	62	--
RED SHINER	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	68	--	--	248	--	--	70	--	--	76	--	--	80	--	--	121	--	--	164	--
SAND SHINER	--	12	--	--	19	--	--	3	--	--	4	--	--	--	--	--	4	--	--	7	--
REDFIN SHINER	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	3	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUCKERMOUTH MINNOW	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	--
BLUNTNOSE MINNOW	1	435	0.2	--	1,784	--	1	390	0.3	--	510	--	1	689	0.1	--	1,663	--	--	1,281	--
FATHEAD MINNOW	--	--	--	--	2	--	--	--	--	--	1	--	--	2	--	--	--	--	--	1	--
BULLHEAD MINNOW	--	3	--	--	3	--	--	1	--	--	8	--	--	1	--	--	12	--	--	6	--
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
RIVER CARPSUCKER	1	12	8.3	2	5	40.0	1	2	50.0	1	3	33.3	--	2	--	1	3	33.3	1	5	20.0
QUILLBACK	--	10	--	1	5	20.0	2	16	12.5	--	--	--	3	7	42.9	1	6	16.7	1	5	20.0
HIGHFIN CARPSUCKER	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpiodes sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	2	--	1	12	8.3	1	4	25.0	--	--	--	--	--	--	--	1	--	--	--	--
SMALLMOUTH BUFFALO	33	76	43.4	26	70	37.1	36	74	48.6	40	75	53.3	35	61	57.4	28	64	43.8	23	52	44.2
BIGMOUTH BUFFALO	2	3	66.7	--	2	--	--	1	--	--	--	--	--	2	--	--	--	--	--	--	--
BLACK BUFFALO	--	1	--	4	5	80.0	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	1	1	100.0	--	--	--	--	--	--	--	1	--	--	--	--
SILVER REDHORSE	3	5	60.0	1	1	100.0	1	2	50.0	--	--	--	--	10	--	--	--	--	--	--	--
RIVER REDHORSE	--	--	--	1	1	100.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 29 (cont.)

SPECIES	2002			2003			2004			2005			2006			2007			2008		
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
GOLDEN REDHORSE	1	6	16.7	2	7	28.6	10	17	58.8	1	2	50.0	--	6	--	1	5	20.0	11	41	26.8
SHORTHEAD REDHORSE	1	4	25.0	5	9	55.6	1	3	33.3	--	2	--	--	2	--	--	3	--	2	4	50.0
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	19	--	2	11	18.2	3	13	23.1	1	8	12.5	1	6	16.7	2	14	14.3	2	18	11.1
CHANNEL CATFISH	74	108	68.5	173	219	79.0	195	210	92.9	94	109	86.2	144	156	92.3	137	152	90.1	135	155	87.1
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	--	1	--	--	3	--
FLATHEAD CATFISH	--	2	--	5	8	62.5	1	3	33.3	5	5	100.0	2	2	100.0	2	2	100.0	3	3	100.0
BLACKSTRIPE TOPMINNOW	--	5	--	--	21	--	--	5	--	--	2	--	--	15	--	--	25	--	--	82	--
WESTERN MOSQUITOFISH	--	1	--	--	3	--	--	--	--	--	4	--	--	2	--	--	10	--	--	4	--
BROOK SILVERSIDE	--	2	--	--	10	--	--	--	--	--	1	--	--	5	--	--	5	--	--	4	--
WHITE PERCH	--	6	--	1	2	50.0	--	--	--	--	--	--	--	--	--	--	1	--	--	3	--
WHITE BASS	1	12	8.3	--	7	--	--	4	--	1	3	33.3	1	5	20.0	--	1	--	--	4	--
YELLOW BASS	--	--	--	--	--	--	1	2	50.0	--	2	--	--	--	--	--	2	--	--	2	--
Morone HYBRID	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--
HYBRID STRIPER	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	2	--	--	3	--	--	1	--	--	3	--	--	1	--	--	3	--	--	5	--
GREEN SUNFISH	15	769	2.0	51	1,302	3.9	25	706	3.5	15	393	3.8	7	418	1.7	1	523	0.2	11	746	1.5
PUMPKINSEED	--	--	--	--	1	--	--	--	--	--	3	--	--	17	--	--	11	--	--	67	--
WARMOUTH	--	1	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	22	--	1	78	1.3	--	44	--	--	4	--	--	21	--	--	43	--	--	63	--
BLUEGILL	13	705	1.8	30	1,253	2.4	19	667	2.8	7	629	1.1	3	720	0.4	4	667	0.6	12	925	1.3
REDEAR SUNFISH	--	3	--	1	2	50.0	--	--	--	--	--	--	--	2	--	--	1	--	--	--	--
NORTHERN SUNFISH	--	25	--	--	34	--	--	7	--	--	6	--	--	12	--	--	20	--	--	25	--
Lepomis HYBRID	--	101	--	4	598	0.7	--	371	--	1	145	0.7	2	235	0.9	1	152	0.7	--	171	--
Lepomis sp.	--	--	--	--	3	--	--	--	--	--	2	--	--	--	--	--	23	--	--	13	--
SMALLMOUTH BASS	4	62	6.5	2	80	2.5	13	67	19.4	2	22	9.1	3	23	13.0	--	76	--	8	95	8.4
LARGEMOUTH BASS	41	226	18.1	50	397	12.6	177	352	50.3	50	142	35.2	69	248	27.8	37	191	19.4	34	215	15.8
WHITE CRAPPIE	--	1	--	--	1	--	--	1	--	--	1	--	--	1	--	--	--	--	--	--	--
BLACK CRAPPIE	2	7	28.6	--	7	--	--	9	--	--	--	--	--	2	--	--	6	--	--	3	--
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	100.0	--	--	--
JOHNNY DARTER	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	2	--	--	--	--	--	--	--	--	2	--	--	--	--	--	3	--	--	1	--
BLACKSIDE DARTER	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	--	7	--
SLENDERHEAD DARTER	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	2	6	33.3	--	--	--	--	--	--	--	--	--	--	1	--
FRESHWATER DRUM	45	90	50.0	17	84	20.2	45	88	51.1	40	53	75.5	30	50	60.0	29	64	45.3	31	56	55.4
ROUND GOBY	--	--	--	1	9	11.1	--	11	--	--	6	--	--	3	--	--	2	--	--	10	--
TOTAL FISH	341	5,963	5.7	474	7,558	6.3	633	4,226	15.0	331	4,922	6.7	322	4,124	7.8	311	5,995	5.2	354	5,831	6.1

TABLE 29 (cont.)

	2009			2010			2011			2012			2013		
SPECIES	DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM	
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
LONGNOSE GAR	--	27	--	--	31	--	1	30	3.3	1	34	2.9	1	25	4.0
SHORTNOSE GAR	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
GAR sp.	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--
BOWFIN	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
ALEWIFE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	2	652	0.3	1	975	0.1	5	1,268	0.4	--	1,231	--	--	732	--
THREADFIN SHAD	--	31	--	--	64	--	--	26	--	--	112	--	--	8	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	1	--	--	--	--	--	2	--	--	1	--	--	1	--
NORTHERN PIKE	--	1	--	--	3	--	--	2	--	--	1	--	--	--	--
CENTRAL STONEROLLER	--	22	--	--	1	--	--	1	--	--	2	--	--	--	--
GOLDFISH	1	16	6.3	1	7	14.3	1	1	100.0	--	6	--	1	7	14.3
GRASS CARP	1	3	33.3	--	--	--	--	1	--	--	--	--	--	--	--
COMMON CARP	62	102	60.8	55	117	47.0	53	103	51.5	37	88	42.0	41	82	50.0
CARP X GOLDFISH HYBRID	--	2	--	1	6	16.7	--	--	--	1	1	100.0	--	1	--
BIGHEAD CARP	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--
HORNYHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	4	--	--	13	--	1	8	12.5	--	17	--	--	2	--
PALLID SHINER	--	1	--	--	2	--	--	--	--	--	2	--	--	--	--
EMERALD SHINER	--	156	--	--	201	--	--	91	--	--	145	--	--	30	--
GHOST SHINER	--	59	--	--	2	--	--	--	--	--	--	--	--	1	--
STRIPED SHINER	--	10	--	--	3	--	--	8	--	--	7	--	--	1	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	1	112	0.9	--	33	--	--	16	--	--	18	--	--	5	--
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
SPOTFIN SHINER	--	153	--	--	38	--	--	50	--	1	78	1.3	1	32	3.1
SAND SHINER	--	25	--	--	1	--	--	--	--	--	7	--	--	--	--
REDFIN SHINER	--	12	--	--	--	--	--	--	--	--	3	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	5	--	--	3	--
CHANNEL/MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
SUCKERMOUTH MINNOW	--	2	--	--	--	--	--	3	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	1,880	--	--	808	--	1	421	0.2	--	666	--	--	543	--
FATHEAD MINNOW	--	8	--	--	--	--	--	1	--	--	1	--	--	--	--
BULLHEAD MINNOW	--	3	--	--	1	--	--	--	--	--	5	--	--	1	--
Pimephales sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CREEK CHUB	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	2	--	--	6	--	1	4	25.0	--	3	--	2	9	22.2
QUILLBACK	1	4	25.0	1	11	9.1	1	7	14.3	2	7	28.6	--	3	--
HIGHFIN CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Carpiodes sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	1	2	50.0	--	--	--	1	2	50.0	--	1	--	1	1	100.0
SMALLMOUTH BUFFALO	40	64	62.5	35	57	61.4	17	43	39.5	22	57	38.6	28	43	65.1
BIGMOUTH BUFFALO	--	--	--	1	1	100.0	--	--	--	--	1	--	--	--	--
BLACK BUFFALO	--	--	--	--	--	--	1	1	100.0	--	--	--	--	2	--
SPOTTED SUCKER	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	2	3	66.7	3	7	42.9	1	3	33.3	5	5	100.0	1	1	100.0
RIVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 29 (cont.)

SPECIES	2009			2010			2011			2012			2013		
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
GOLDEN REDHORSE	4	14	28.6	10	24	41.7	4	16	25.0	--	2	--	1	1	100.0
SHORHEAD REDHORSE	1	2	50.0	1	4	25.0	1	2	50.0	4	6	66.7	4	7	57.1
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	1	14	7.1	--	10	--	1	14	7.1	2	8	25.0	1	19	5.3
CHANNEL CATFISH	159	175	90.9	106	121	87.6	118	134	88.1	53	62	85.5	93	114	81.6
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	1	--	--	1	--	--	1	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	1	--	1	1	100.0	1	1	100.0	2	2	100.0
BLACKSTRIPE TOPMINNOW	--	15	--	--	20	--	--	8	--	--	35	--	--	8	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	3	--	--	4	--	--	1	--
BROOK SILVERSIDE	--	4	--	--	4	--	--	2	--	--	10	--	--	4	--
WHITE PERCH	--	--	--	1	2	50.0	--	--	--	--	--	--	--	--	--
WHITE BASS	--	1	--	--	3	--	--	--	--	--	4	--	--	5	--
YELLOW BASS	--	--	--	1	8	12.5	--	--	--	--	--	--	--	--	--
Morone HYBRID	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID STRIPER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	5	--	--	12	--	--	6	--	1	6	16.7	--	9	--
GREEN SUNFISH	8	747	1.1	7	685	1.0	12	1,073	1.1	6	1,076	0.6	17	430	4.0
PUMPKINSEED	--	15	--	--	18	--	--	25	--	--	113	--	1	82	1.2
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	59	--	--	80	--	--	69	--	--	107	--	--	7	--
BLUEGILL	9	575	1.6	6	791	0.8	13	1,143	1.1	3	1,434	0.2	18	1,200	1.5
REDEAR SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN SUNFISH	--	25	--	--	19	--	--	15	--	2	20	10.0	--	42	--
Lepomis HYBRID	1	242	0.4	--	198	--	--	140	--	1	142	0.7	--	191	--
Lepomis sp.	--	13	--	--	1	--	1	56	1.8	--	21	--	--	6	--
SMALLMOUTH BASS	2	148	1.4	--	69	--	--	48	--	2	31	6.5	1	17	5.9
LARGEMOUTH BASS	27	334	8.1	22	355	6.2	32	261	12.3	44	182	24.2	63	317	19.9
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	--	--	--	3	--	--	1	--	--	--	--	--	2	--
Pomoxis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
YELLOW PERCH	--	1	--	--	--	--	--	1	--	--	--	--	--	2	--
LOGPERCH	1	6	16.7	--	6	--	--	3	--	--	2	--	--	1	--
BLACKSIDE DARTER	--	6	--	--	1	--	--	1	--	--	--	--	--	4	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	1	--	--	1	--	--	1	--	--	--	--	--	--	--
FRESHWATER DRUM	34	59	57.6	24	63	38.1	20	47	42.6	24	31	77.4	34	47	72.3
ROUND GOBY	--	22	--	--	33	--	--	12	--	--	12	--	--	23	--
TOTAL FISH	358	5,841	6.1	276	4,930	5.6	287	5,178	5.5	212	5,815	3.6	311	4,076	7.6

NOTE: DELT# = Number of fish with DELT anomalies; EXAM# = Number of fish examined for DELT anomalies;
 DELT% = Percentage of examined fish with DELT anomalies.

TABLE 30. INCIDENCE OF DELT ANOMALIES WITHIN THE DOWNSTREAM I-55 SEGMENT, 1994, 1995, AND 1997-2013.

SPECIES	1994			1995			1997			1998			1999			2000			2001		
	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%
	#	#		#	#		#	#		#	#		#	#		#	#		#	#	
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	6	--	--	13	--	--	7	--	--	5	--	--	--	--	--	--	--	2	2	100.0
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--
SKIPJACK HERRING	--	4	--	--	--	--	--	1	--	--	3	--	--	3	--	--	--	--	--	7	--
GIZZARD SHAD	1	655	0.2	11	301	3.7	3	1,805	0.2	6	1,192	0.5	6	713	0.8	9	997	0.9	5	1,359	0.4
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--	--	--	17	--	1	95	1.1	--	66	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	1	3	33.3	1	2	50.0	1	2	50.0	1	1	100.0	--	--	--	--	--	--	--	--	--
GRASS CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
COMMON CARP	43	145	29.7	28	103	27.2	26	141	18.4	24	119	20.2	9	82	11.0	24	111	21.6	37	134	27.6
CARP X GOLDFISH HYBRID	4	62	6.5	6	57	10.5	1	17	5.9	1	7	14.3	--	4	--	--	6	--	--	1	--
BIGHEAD CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	1	--	--	3	--	--	--	--	--	1	--	--	5	--	--	3	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
EMERALD SHINER	--	43	--	--	8	--	--	132	--	--	152	--	--	45	--	--	28	--	--	147	--
GHOST SHINER	--	1	--	--	1	--	--	--	--	--	7	--	--	--	--	--	--	--	--	1	--
STRIPED SHINER	--	1	--	--	1	--	--	2	--	--	1	--	--	--	--	--	--	--	--	--	--
SPOTTTAIL SHINER	--	4	--	--	17	--	--	11	--	--	59	--	--	8	--	--	92	--	--	39	--
RED SHINER	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	1	--	--	4	--	--	6	--	--	17	--	--	16	--	1	24	4.2	--	34	--
SAND SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Notropis sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	--	30	--	--	95	--	--	271	--	--	435	--	--	169	--	6	427	1.4	--	305	--
FATHEAD MINNOW	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	13	--	--	7	--	--	76	--	--	268	--	--	121	--	--	179	--	1	207	0.5
RIVER CARPSUCKER	3	13	23.1	4	15	26.7	5	24	20.8	2	15	13.3	1	9	11.1	1	11	9.1	2	13	15.4
QUILLBACK	2	11	18.2	4	16	25.0	2	13	15.4	--	5	--	1	6	16.7	--	4	--	--	12	--
Carpion sp.	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	1	--	--	8	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--
SMALLMOUTH BUFFALO	3	18	16.7	11	31	35.5	9	39	23.1	5	28	17.9	11	52	21.2	13	38	34.2	13	51	25.5
BIGMOUTH BUFFALO	--	2	--	1	1	100.0	1	7	14.3	1	3	33.3	3	3	100.0	1	2	50.0	--	1	--
BLACK BUFFALO	--	--	--	--	2	--	--	--	--	--	1	--	--	--	--	1	3	33.3	--	1	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	100.0
SILVER REDHORSE	1	2	50.0	1	4	25.0	1	1	100.0	--	--	--	--	--	--	--	--	--	1	1	100.0
BLACK REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	4	--	8	21	38.1	11	25	44.0	4	24	16.7	4	10	40.0	1	1	100.0	1	4	25.0
SHORTHEAD REDHORSE	12	27	44.4	9	21	42.9	5	12	41.7	1	14	7.1	--	6	--	6	11	54.5	--	4	--
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	4	--	--	--	--	1	3	33.3	--	3	--	--	6	--	3	14	21.4	--	5	--
CHANNEL CATFISH	13	22	59.1	15	36	41.7	15	21	71.4	14	18	77.8	14	27	51.9	16	32	50.0	22	31	71.0
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--

TABLE 30 (cont.)

SPECIES	1994			1995			1997			1998			1999			2000			2001		
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	3	--	--	--	--
FLATHEAD CATFISH	--	1	--	1	1	100.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TROUT-PERCH	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	1	--	--	3	--	--	--	--	--	3	--	--	1	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	1	--	--	1	--	--	3	--	--	2	--	--	7	--
WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	2	--
WHITE BASS	--	--	--	1	14	7.1	--	1	--	--	1	--	--	1	--	--	1	--	--	--	--
YELLOW BASS	--	2	--	--	4	--	--	1	--	--	1	--	--	2	--	--	1	--	--	--	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID STRIPER	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
Morone sp.	--	4	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	1	--
GREEN SUNFISH	3	66	4.5	--	16	--	1	60	1.7	8	192	4.2	8	176	4.5	11	463	2.4	4	112	3.6
PUMPKINSEED	--	3	--	--	1	--	--	--	--	--	10	--	--	5	--	--	1	--	--	--	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	1	--	--	--	--
ORANGESPOTTED SUNFISH	--	83	--	--	129	--	3	279	1.1	--	1,104	--	3	357	0.8	4	232	1.7	--	111	--
BLUEGILL	4	30	13.3	4	47	8.5	3	202	1.5	8	515	1.6	8	711	1.1	24	1,382	1.7	7	542	1.3
REDEAR SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN SUNFISH	--	3	--	--	--	--	--	1	--	--	--	--	--	--	--	--	3	--	--	9	--
Lepomis HYBRID	--	2	--	--	--	--	--	3	--	--	3	--	--	15	--	--	30	--	--	11	--
Lepomis sp.	--	3	--	--	100	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--
SMALLMOUTH BASS	2	11	18.2	--	19	--	1	23	4.3	--	25	--	--	9	--	--	18	--	--	15	--
LARGEMOUTH BASS	2	8	25.0	6	32	18.8	10	90	11.1	16	219	7.3	6	195	3.1	16	219	7.3	6	103	5.8
WHITE CRAPPIE	--	--	--	--	--	--	--	1	--	--	6	--	--	2	--	--	4	--	--	--	--
BLACK CRAPPIE	--	1	--	--	2	--	1	3	33.3	--	5	--	--	4	--	--	8	--	--	1	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	4	--	--	27	--	--	14	--	--	9	--	--	2	--	--	5	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	5	50	10.0	6	37	16.2	10	50	20.0	6	52	11.5	4	37	10.8	3	25	12.0	10	38	26.3
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	99	1,344	7.4	117	1,174	10.0	110	3,365	3.3	97	4,538	2.1	78	2,828	2.8	141	4,485	3.1	112	3,389	3.3

TABLE 30 (cont.)

	2002			2003			2004			2005			2006			2007			2008		
SPECIES	DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM		DELT	EXAM	
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	7	--	--	2	--	--	--	--	--	4	--	--	1	--	--	8	--	--	6	--
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SKIPJACK HERRING	--	3	--	--	--	--	--	2	--	--	2	--	--	--	--	--	--	--	--	1	--
GIZZARD SHAD	5	1,436	0.3	9	974	0.9	4	533	0.8	5	2,298	0.2	1	1,507	0.1	--	1,089	--	1	1,031	0.1
THREADFIN SHAD	1	50	2.0	--	251	--	2	35	5.7	--	2	--	--	56	--	--	8	--	--	114	--
Dorosoma sp.	--	--	--	--	1,555	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	4	--	--	--	--	--	--	--	--	1	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	100.0	--	1	--
GOLDFISH	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	1	33	3.0	3	11	27.3
GRASS CARP	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
COMMON CARP	20	56	35.7	32	83	38.6	29	63	46.0	30	93	32.3	6	30	20.0	8	32	25.0	9	35	25.7
CARP X GOLDFISH HYBRID	--	--	--	1	3	33.3	--	--	--	--	--	--	--	1	--	1	4	25.0	--	2	--
BIGHEAD CARP	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	6	--	--	36	--	--	6	--	--	12	--	--	1	--	--	2	--	--	15	--
PALLID SHINER	--	2	--	--	12	--	--	6	--	--	1	--	--	2	--	--	1	--	--	1	--
EMERALD SHINER	--	510	--	--	309	--	--	53	--	--	304	--	--	350	--	--	53	--	--	53	--
GHOST SHINER	--	1	--	--	30	--	--	--	--	--	1	--	--	22	--	--	9	--	--	10	--
STRIPED SHINER	--	--	--	--	1	--	--	--	--	--	6	--	--	6	--	--	2	--	--	5	--
SPOTTAIL SHINER	--	38	--	--	88	--	--	15	--	--	36	--	--	28	--	--	87	--	--	103	--
RED SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1	24	4.2	1	88	1.1	--	20	--	--	45	--	--	46	--	--	44	--	--	48	--
SAND SHINER	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--
REDFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MIMIC SHINER	--	--	--	--	39	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--
Notropis sp.	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--
BLUNTNOSE MINNOW	--	290	--	1	1,773	0.1	--	237	--	2	668	0.3	--	567	--	--	1,312	--	--	762	--
FATHEAD MINNOW	--	--	--	--	9	--	--	--	--	--	1	--	--	--	--	--	--	--	--	4	--
BULLHEAD MINNOW	--	87	--	--	124	--	--	63	--	--	125	--	--	140	--	--	75	--	--	166	--
RIVER CARPSUCKER	--	7	--	1	7	14.3	3	22	13.6	5	16	31.3	--	7	--	5	15	33.3	2	10	20.0
QUILLBACK	2	4	50.0	2	4	50.0	1	7	14.3	--	12	--	--	5	--	--	2	--	1	5	20.0
Carpiodes sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	12	49	24.5	10	32	31.3	18	40	45.0	6	25	24.0	5	24	20.8	9	29	31.0	8	22	36.4
BIGMOUTH BUFFALO	1	4	25.0	--	1	--	--	2	--	1	2	50.0	--	--	--	--	1	--	--	3	--
BLACK BUFFALO	--	--	--	4	6	66.7	--	--	--	--	2	--	--	--	--	--	--	--	--	1	--
Ictiobus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--
SPOTTED SUCKER	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	1	--	--	2	--	1	3	33.3	--	2	--	1	2	50.0	--	--	--
BLACK REDHORSE	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
GOLDEN REDHORSE	1	15	6.7	9	43	20.9	4	11	36.4	--	2	--	3	46	6.5	--	20	--	13	58	22.4
SHORthead REDHORSE	--	4	--	1	3	33.3	--	1	--	--	2	--	1	5	20.0	--	3	--	--	1	--
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BULLHEAD	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	1	9	11.1	1	14	7.1	--	4	--	--	--	--	--	3	--	1	1	100.0	--	4	--
CHANNEL CATFISH	31	51	60.8	51	60	85.0	52	61	85.2	26	30	86.7	29	35	82.9	18	24	75.0	26	28	92.9
Ameiurus sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

TABLE 30 (cont.)

SPECIES	2002			2003			2004			2005			2006			2007			2008		
	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT	DELT	EXAM	DELT
	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%	#	#	%
TADPOLE MADTOM	--	--	--	--	1	--	--	1	--	--	1	--	--	4	--	--	1	--	--	8	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	1	100.0	--	--	--	--	--	--	--	--	--	--	--	--
TROUT-PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	1	--	--	2	--	--	5	--	--	2	--	--	3	--	--	7	--	--	6	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	6	--	--	3	--	--	1	--	--	--	--
BROOK SILVERSIDE	--	15	--	--	17	--	--	6	--	--	33	--	--	36	--	--	20	--	--	51	--
WHITE PERCH	--	--	--	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
WHITE BASS	--	2	--	--	6	--	--	2	--	--	--	--	--	--	--	--	1	--	--	--	--
YELLOW BASS	--	1	--	--	2	--	--	2	--	--	1	--	--	--	--	--	--	--	--	6	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8	--
HYBRID STRIPER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--
Morone sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	2	--	--	1	--	--	4	--	--	7	--	--	3	--	--	10	--
GREEN SUNFISH	12	400	3.0	26	1,187	2.2	23	635	3.6	14	404	3.5	3	320	0.9	3	385	0.8	10	351	2.8
PUMPKINSEED	--	5	--	--	11	--	--	3	--	--	2	--	--	1	--	--	--	--	--	1	--
WARMOUTH	--	1	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	585	--	2	1,569	0.1	--	274	--	--	232	--	--	320	--	--	202	--	--	525	--
BLUEGILL	19	1,576	1.2	26	2,532	1.0	17	1,251	1.4	14	1,859	0.8	17	1,720	1.0	5	1,266	0.4	12	1,850	0.6
REDEAR SUNFISH	--	1	--	--	2	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
NORTHERN SUNFISH	--	2	--	--	3	--	--	2	--	--	8	--	--	9	--	1	20	5.0	--	49	--
Lepomis HYBRID	--	19	--	1	50	2.0	1	39	2.6	--	42	--	1	37	2.7	--	24	--	--	36	--
Lepomis sp.	--	--	--	--	9	--	--	1	--	--	2	--	--	14	--	--	7	--	--	83	--
SMALLMOUTH BASS	--	24	--	3	55	5.5	5	37	13.5	--	7	--	1	17	5.9	--	25	--	1	45	2.2
LARGEMOUTH BASS	18	169	10.7	39	288	13.5	107	337	31.8	46	189	24.3	33	340	9.7	16	247	6.5	10	260	3.8
WHITE CRAPPIE	--	2	--	2	5	40.0	--	4	--	--	--	--	--	1	--	--	2	--	--	--	--
BLACK CRAPPIE	--	5	--	1	7	14.3	--	6	--	1	3	33.3	--	2	--	--	2	--	--	3	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	10	--	--	4	--	--	8	--	--	11	--	--	14	--	--	37	--	--	45	--
BLACKSIDE DARTER	--	--	--	--	5	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1	--
SLENDERHEAD DARTER	--	1	--	--	1	--	--	--	--	--	1	--	--	--	--	--	1	--	--	1	--
WALLEYE	--	--	--	--	1	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	6	31	19.4	4	39	10.3	10	49	20.4	8	23	34.8	1	22	4.5	3	19	15.8	3	14	21.4
ROUND GOBY	--	--	--	--	--	--	--	2	--	--	5	--	--	--	--	--	--	--	--	2	--
TOTAL FISH	130	5,508	2.4	227	11,366	2.0	277	3,853	7.2	159	6,534	2.4	101	5,758	1.8	73	5,133	1.4	99	5,863	1.7

TABLE 30 (cont.)

[illegible]

TABLE 30 (cont.)

SPECIES	2009			2010			2011			2012			2013		
	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%	DELT	EXAM	%
	#	#		#	#		#	#		#	#		#	#	
TADPOLE MADTOM	--	4	--	--	8	--	--	4	--	--	1	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--
TROUT-PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	8	--	--	26	--	--	10	--	--	4	--	--	2	--
WESTERN MOSQUITOFISH	--	2	--	--	--	--	--	--	--	--	2	--	--	1	--
BROOK SILVERSIDE	--	86	--	--	23	--	--	75	--	--	7	--	--	2	--
WHITE PERCH	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	2	--	--	--	--	--	--	--	--	4	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HYBRID STRIPER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Morone sp.	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	28	--	--	32	--	--	26	--	1	9	11.1	--	4	--
GREEN SUNFISH	3	319	0.9	3	320	0.9	3	249	1.2	2	347	0.6	5	259	1.9
PUMPKINSEED	--	4	--	--	--	--	--	2	--	--	13	--	--	29	--
WARMOUTH	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	342	--	1	596	0.2	--	166	--	--	268	--	1	60	1.7
BLUEGILL	4	1,042	0.4	2	805	0.2	7	1,560	0.4	8	2,176	0.4	18	1,989	0.9
REDEAR SUNFISH	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
NORTHERN SUNFISH	--	54	--	--	22	--	--	10	--	--	5	--	1	22	4.5
Lepomis HYBRID	--	57	--	--	24	--	2	15	13.3	--	24	--	--	30	--
Lepomis sp.	--	48	--	--	11	--	--	48	--	--	128	--	--	37	--
SMALLMOUTH BASS	2	40	5.0	--	19	--	1	25	4.0	--	2	--	--	5	--
LARGEMOUTH BASS	8	350	2.3	4	452	0.9	13	292	4.5	15	144	10.4	29	288	10.1
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK CRAPPIE	--	3	--	--	3	--	--	1	--	--	1	--	--	--	--
JOHNNY DARTER	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	86	--	--	60	--	--	46	--	--	2	--	--	10	--
BLACKSIDE DARTER	--	6	--	--	1	--	--	1	--	--	--	--	--	--	--
SLENDERHEAD DARTER	--	3	--	--	--	--	--	--	--	--	--	--	--	--	--
WALLEYE	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--
FRESHWATER DRUM	6	39	15.4	1	18	5.6	4	13	30.8	--	8	--	1	12	8.3
ROUND GOBY	--	12	--	--	18	--	--	3	--	--	--	--	--	1	--
TOTAL FISH	67	4,191	1.6	59	4,451	1.3	63	4,369	1.4	61	4,797	1.3	83	3,457	2.4

NOTE: DELT# = Number of fish with DELT anomalies; EXAM# = Number of fish examined for DELT anomalies;
DELT% = Percentage of examined fish with DELT anomalies.

TABLE 31. INCIDENCE OF DELT ANOMALIES FOR COMMON AND ABUNDANT TAXA COLLECTED WITHIN THE UPSTREAM AND DOWNSTREAM I-55 SEGMENTS, 1994, 1995, AND 1997-2013.

	1994	1995	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
SPECIES	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %	DELT %
GIZZARD SHAD	0.4	2.9	0.2	0.6	0.6	1.2	0.3	0.4	0.8	1.0	0.2	0.2	0.1	0.3	0.2	0.2	0.2	0.1	--
COMMON CARP	40.1	42.9	33.6	29.6	23.8	31.2	34.2	37.9	41.3	58.1	33.0	15.0	33.7	38.1	58.6	43.5	45.7	42.6	47.6
EMERALD SHINER	--	--	--	--	--	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	5.6	--	--	--	--	--	1.6	--	--	--	--	--	0.6	--	--	--	--
BLUNTNOSE MINNOW	--	0.6	--	--	--	1.1	--	0.1	0.0	0.2	0.2	0.1	--	--	--	--	0.2	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	0.3	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	41.7	30.8	22.2	13.0	20.0	22.7	13.6	5.3	25.0	16.7	31.6	--	33.3	20.0	20.0	--	25.0	--	21.4
QUILLBACK	28.6	26.9	16.1	12.5	40.0	20.0	17.4	14.3	33.3	13.0	--	25.0	12.5	20.0	7.7	7.1	9.1	20.0	--
SMALLMOUTH BUFFALO	29.7	38.7	34.7	31.8	25.9	32.6	31.0	36.0	35.3	47.4	46.0	47.1	39.8	41.9	52.4	55.1	37.1	42.9	55.9
GOLDEN REDHORSE	33.3	45.8	46.2	14.8	36.4	100.0	25.0	9.5	22.0	50.0	25.0	5.8	4.0	24.2	19.0	21.4	21.4	42.9	16.7
SHORTHEAD REDHORSE	45.2	46.4	40.0	25.0	23.1	47.8	22.2	12.5	50.0	25.0	--	14.3	--	40.0	7.1	25.0	25.0	66.7	55.6
CHANNEL CATFISH	70.4	55.0	79.8	72.0	56.6	53.8	74.8	66.0	80.3	91.1	86.3	90.6	88.1	88.0	89.8	87.6	87.7	84.2	80.2
GREEN SUNFISH	4.8	5.1	5.3	4.4	5.6	3.7	5.2	2.3	3.1	3.6	3.6	1.4	0.4	1.9	1.0	1.0	1.1	0.6	3.2
ORANGESPOTTED SUNFISH	--	--	0.9	0.1	1.2	1.9	--	--	0.2	--	--	--	--	--	--	0.1	--	--	1.5
BLUEGILL	15.4	6.5	2.3	1.9	1.2	2.2	1.2	1.4	1.5	1.9	0.8	0.8	0.5	0.9	0.8	0.5	0.7	0.3	1.1
SMALLMOUTH BASS	11.1	--	7.7	--	3.3	--	2.6	4.7	3.7	17.3	6.9	10.0	--	6.4	2.1	--	1.4	6.1	4.5
LARGEMOUTH BASS	10.7	21.7	9.7	7.4	7.8	9.1	10.9	14.9	13.0	41.2	29.0	17.3	12.1	9.3	5.1	3.2	8.1	18.1	15.2
FRESHWATER DRUM	13.0	22.2	35.4	31.1	37.1	25.0	39.4	42.1	17.1	40.1	63.2	43.1	38.6	48.6	40.8	30.9	40.0	61.5	59.3

NOTE: DELT% = Percentage of examined fish with DELT anomalies. 0.0 DENOTES VALUES LESS THAN 0.05.

APPENDIX A
PHYSICOCHEMICAL MEASUREMENTS
UPPER ILLINOIS WATERWAY -- 2013

APPENDIX A
UPPER ILLINOIS WATERWAY - MIDWEST GENERATION
PHYSICAL MEASUREMENTS RECORDED AT EACH ELECTROFISHING LOCATION, 2013.

LOCATION	DATE	TIME	DEPTH	TEMP (C)	D.O. (ppm)	D.O. (% SAT)	SPEC COND (uS/cm)	SECCHI (cm)
301	20MAY	8:51	SUR	19.5	4.9	53	1109	138
			1.0	19.4	5.0	54		
			2.0	19.4	5.0	54		
			3.0	19.3	4.9	54		
			4.0	19.3	5.0	54		
			5.0	19.3	4.9	53		
			6.0	19.3	4.9	53		
			7.0	19.3	4.9	54		
			8.0	19.3	4.8	52		
			9.0	19.3	4.8	52		
	04JUN	10:08	SUR	18.8	3.5	37	735	92
			1.0	18.7	3.4	37		
			2.0	18.7	3.4	37		
			3.0	18.6	3.3	37		
			4.0	18.6	3.3	36		
			5.0	18.6	3.3	36		
			6.0	18.6	3.3	36		
			7.0	18.6	3.3	36		
			8.0	18.6	3.2	35		
	01JUL	8:47	SUR	22.2	3.6	41	781	114
			1.0	22.2	3.5	41		
			2.0	22.2	3.5	40		
			3.0	22.2	3.5	40		
			4.0	22.2	3.4	39		
			5.0	22.2	3.4	39		
			6.0	22.2	3.5	40		
			7.0	22.1	3.5	40		
	15JUL	7:00	SUR	25.4	5.2	64	809	121
			1.0	25.4	5.1	62		
			2.0	25.3	5.1	62		
			3.0	25.3	5.0	61		
			4.0	25.3	5.0	61		
			5.0	25.3	5.0	60		
			6.0	25.3	5.0	60		
			7.0	25.3	5.0	60		
			7.5	25.3	4.8	60		
	14AUG	6:50	SUR	23.8	6.3	76	730	117
			1.0	24.0	6.2	74		
			2.0	24.1	6.2	73		
			3.0	24.2	6.1	73		
			4.0	24.3	6.1	72		
			5.0	24.3	6.0	72		
			6.0	24.3	5.9	71		
			7.0	24.3	5.9	71		
			8.0	24.3	5.9	71		
	26AUG	8:32	SUR	28.6	3.7	44	795	134
			1.0	28.8	3.6	48		
			2.0	29.0	3.6	47		
			3.0	28.9	3.6	47		
			4.0	28.7	3.5	46		
			5.0	27.6	3.5	43		
			6.0	25.4	3.4	42		
			7.0	25.2	3.5	42		
			8.0	25.0	3.4	42		
	09SEP	7:28	SUR	25.8	5.0	60	752	171
			1.0	25.7	4.9	60		
			2.0	24.5	4.8	57		
			3.0	24.4	4.8	57		
			4.0	24.3	4.8	58		
			5.0	24.3	4.8	58		
			6.0	24.3	4.8	57		
	23SEP	7:49	SUR	20.7	4.4	48	841	135
			1.0	20.6	4.4	48		
			2.0	20.6	4.4	48		
			3.0	20.6	4.4	48		
			4.0	20.6	4.4	48		
			5.0	20.6	4.4	48		
			6.0	20.6	4.4	48		
			7.0	20.6	4.3	48		
302	20MAY	9:39	SUR	27.1	5.1	62	1097	139
			1.0	25.6	4.7	60		
			2.0	26.4	5.0	61		
			3.0	24.9	4.9	54		
			4.0	21.5	4.8	54		
	04JUN	11:23	SUR	22.8	3.2	38	738	90
			1.0	22.8	3.2	34		
			1.6	21.1	2.3	25		
	01JUL	9:49	SUR	26.7	2.9	37	783	112
			1.0	26.4	3.2	39		
			2.0	26.4	2.9	36		
			3.0	24.1	3.0	36		
			4.0	24.1	3.0	35		
			5.0	22.4	2.9	33		

APPENDIX A (cont.)

LOCATION	DATE	TIME	DEPTH	TEMP (C)	D.O. (ppm)	D.O. (% SAT)	SPEC COND (uS/cm)	SECCHI (cm)
302 (cont.)	15JUL	7:56	SUR	28.3	4.9	64	825	113
			1.0	28.1	5.0	62		
			2.0	26.2	4.8	59		
			3.0	26.6	4.7	59		
	14AUG	7:32	SUR	27.5	5.8	74	732	87
			1.0	27.2	5.5	77		
			2.0	26.1	5.6	71		
			3.0	26.9	5.1	64		
	26AUG	9:16	SUR	30.5	3.2	42	806	145
			1.0	31.1	3.2	43		
			2.0	30.7	3.2	44		
			3.0	29.5	3.2	41		
	09SEP	8:20	SUR	30.4	4.6	61	753	124
			1.0	30.4	4.5	61		
			2.0	29.5	4.5	59		
			3.0	28.1	4.5	58		
	23SEP	8:34	SUR	23.1	4.3	50	892	99
			1.0	23.2	4.2	49		
			2.0	23.2	4.2	49		
			3.0	23.1	4.1	47		
302A	20MAY	12:06	MID	25.4	5.9	71	1111	90
	04JUN	13:01	MID	21.3	7.4	70	745	86
	01JUL	11:37	MID	24.1	5.3	64	764	116
	15JUL	10:31	MID	28.0	7.3	92	790	124
	14AUG	9:52	MID	25.3	5.4	67	728	87
	26AUG	11:16	MID	28.5	3.7	50	791	104
	09SEP	10:23	MID	28.4	6.5	85	781	127
	23SEP	10:47	MID	23.0	4.0	44	697	150
302B	20MAY	10:45	SUR	23.8	5.2	61	1119	95
			1.0	23.8	4.9	58		
			2.0	23.7	4.6	54		
			3.0	23.6	4.5	54		
	04JUN	8:38	SUR	19.8	2.9	26	744	74
			1.0	19.9	2.7	29		
			1.6	19.9	2.2	24		
			1.0	23.8	3.4	39		
	01JUL	10:31	SUR	23.8	3.4	39	769	112
			1.0	23.8	3.3	39		
			1.0	27.4	4.7	59		
			1.0	27.3	4.4	56		
	14AUG	8:46	SUR	27.3	4.5	56	730	124
			1.0	25.0	5.0	61		
			1.0	25.1	5.0	61		
			2.0	25.2	4.8	61		
	26AUG	10:10	MID	28.1	4.1	51	789	148
			SUR	28.1	4.9	63		
			1.0	28.2	4.9	63		
			2.0	28.2	5.0	64		
	23SEP	9:31	MID	21.8	4.0	44	798	161
			SUR	24.8	4.7	58		
			1.0	24.6	4.5	54		
			2.0	24.6	4.5	54		
303	20MAY	15:50	SUR	20.3	3.3	39	732	73
			1.0	20.2	3.5	38		
			2.0	20.2	3.5	38		
			SUR	23.8	3.2	38		
	01JUL	15:21	1.0	23.7	3.2	37	761	125
			SUR	27.7	6.3	82		
			1.0	27.4	6.0	82		
			SUR	25.9	5.0	62		
	14AUG	13:23	1.0	25.9	5.1	62	722	141
			2.0	25.8	5.1	63		
			SUR	29.2	8.3	99		
			1.0	28.9	8.4	110		
	26AUG	15:49	2.0	28.8	8.4	108	786	112
			3.0	28.8	8.4	109		
			MID	28.6	5.8	71		
			MID	23.3	3.6	43		
304	20MAY	14:40	MID	27.1	18.3	229	1253	86
	04JUN	16:22	MID	21.4	12.2	140	1031	73
	01JUL	14:16	MID	23.5	8.5	102	808	56
	15JUL	13:40	MID	31.1	9.9	125	1067	98
	14AUG	12:30	MID	22.6	12.8	148	1138	202
	26AUG	14:34	MID	28.0	15.6	198	1110	169
	09SEP	12:54	MID	27.3	16.2	208	1082	192
	23SEP	13:40	MID	21.0	16.5	185	887	150
305	20MAY	16:44	SUR	25.2	6.3	75	1131	105
			1.0	25.0	6.1	75		
			2.0	24.6	5.4	63		
			3.0	24.4	4.7	57		
			4.0	24.3	4.7	55		
			5.0	24.3	4.6	55		

APPENDIX A (cont.)

INTERIM 1 (CONT.)							SPEC	SECCHI	
LOCATION	DATE	TIME	DEPTH	TEMP (C)	D.O. (ppm)	D.O. (% SAT)	COND (uS/cm)	(cm)	
305 (cont.)	04JUN	18:30	SUR	20.3	5.5	56	747	76	
			1.0	20.2	5.1	57			
			2.0	20.2	5.1	56			
			3.0	20.2	5.1	56			
			4.0	20.2	5.1	56			
			5.0	20.2	5.0	55			
			5.8	20.2	5.0	56			
	01JUL	16:20	SUR	24.0	4.1	48	767	125	
			1.0	23.9	3.9	48			
			2.0	23.9	3.8	44			
			3.0	23.8	3.7	44			
			4.0	23.8	3.7	43			
			5.0	23.8	3.7	43			
			5.0	23.8	3.7	43			
	15JUL	15:37	SUR	27.3	6.0	75	808	136	
			1.0	27.3	5.9	75			
			2.0	27.3	5.8	74			
			3.0	27.2	5.8	73			
			4.0	27.2	5.8	73			
			5.0	27.2	5.7	72			
			5.0	27.2	5.7	72			
	14AUG	14:21	SUR	25.8	5.5	68	727	119	
			1.0	25.8	5.4	67			
			2.0	25.7	5.3	64			
			3.0	25.7	5.2	63			
			4.0	25.7	5.1	62			
			5.0	25.7	5.0	62			
			5.0	25.7	5.0	62			
	26AUG	16:36	SUR	29.0	6.7	88	801	108	
			1.0	28.9	6.7	90			
			2.0	28.8	6.7	88			
			3.0	28.8	6.5	87			
			4.0	28.7	6.5	85			
			5.0	28.7	6.4	84			
			5.5	28.7	6.4	81			
	09SEP	14:36	SUR	28.9	5.6	72	758	159	
			1.0	28.6	5.5	71			
			2.0	28.6	5.6	71			
			3.0	28.5	5.4	70			
			4.0	28.5	5.4	67			
			5.0	28.4	5.3	68			
			5.0	28.4	5.3	68			
	23SEP	15:39	SUR	23.3	3.6	42	702	126	
			1.0	23.3	3.5	41			
			2.0	23.3	3.5	41			
3.0			23.3	3.4	40				
4.0			23.3	3.4	40				
5.0			23.3	3.3	39				
5.0			23.3	3.3	39				
306	20MAY	17:51	MID	25.5	9.6	117	1175	76	
	04JUN	19:17	MID	20.7	8.3	94	960	62	
	01JUL	17:21	MID	23.6	9.1	139	797	77	
	15JUL	16:29	MID	29.5	10.3	135	893	144	
	14AUG	15:10	MID	26.0	7.1	87	752	115	
	26AUG	17:28	MID	29.0	7.7	99	825	125	
	09SEP	15:31	MID	28.8	8.5	109	778	163	
	23SEP	16:39	MID	23.4	4.8	57	717	136	
	307	20MAY	18:45	MID	25.1	9.1	109	1167	92
		05JUN	8:00	MID	19.7	5.5	61	846	88
01JUL		18:15	MID	23.8	3.9	46	766	106	
15JUL		17:32	MID	28.6	8.4	110	867	148	
14AUG		16:18	SUR	25.8	6.1	73	762	148	
			1.0	25.7	6.0	73			
			2.0	25.2	5.5	65			
			3.0	24.2	5.5	66			
26AUG		18:25	SUR	28.8	7.1	92	803	126	
			1.0	28.8	7.0	90			
		2.0	28.8	6.9	90				
		2.2	28.7	6.9	89				
309	09SEP	16:32	MID	28.8	8.6	112	788	127	
	23SEP	17:36	MID	23.1	5.7	66	723	123	
	21MAY	7:15	SUR	20.9	7.7	87	1116	51	
			1.0	20.7	7.8	86			
	05JUN	9:11	SUR	20.0	4.9	54	827	76	
			1.0	20.1	4.8	54			
			1.2	20.1	4.8	53			
	02JUL	11:10	MID	22.8	6.1	69	790	109	
	15JUL	18:30	SUR	29.5	10.6	137	870	85	
			1.0	29.3	9.8	98			
402	14AUG	17:12	MID	25.8	6.0	73	748	103	
	27AUG	8:37	SUR	28.0	6.3	80	821	117	
			1.0	28.0	5.9	78			
			1.2	28.0	3.8	77			
	09SEP	17:30	MID	27.7	7.4	95	756	141	
	24SEP	11:28	MID	22.0	4.8	55	777	134	
	21MAY	10:21	MID	21.0	9.4	106	1184	51	
	05JUN	13:24	MID	21.4	11.4	129	837	71	
	02JUL	13:00	MID	22.7	9.9	116	864	121	
	16JUL	8:25	MID	27.3	8.3	103	937	126	
15AUG	12:20	MID	25.2	10.8	131	848	89		

APPENDIX A (cont.)

LOCATION	DATE	TIME	DEPTH	TEMP (C)	D.O. (ppm)	D.O. (% SAT)	SPEC COND (uS/cm)	SECCHI (cm)
402 (cont.)	27AUG	12:06	MID	28.8	10.2	133	899	116
	10SEP	8:40	MID	27.5	7.5	95	816	110
	24SEP	13:04	MID	23.6	11.1	131	727	175
402A	21MAY	11:21	SUR	22.0	8.7	99	1092	49
			1.0	21.7	8.7	99		
	05JUN	14:37	SUR	21.6	8.8	104	856	62
			1.0	21.1	8.9	96		
			1.1	21.0	8.9	101		
	02JUL	13:46	SUR	23.0	9.2	107	808	100
			1.0	23.0	8.9	102		
	16JUL	9:28	SUR	29.4	6.7	88	892	101
			1.0	28.9	6.6	86		
	15AUG	13:37	MID	25.4	8.7	106	791	49
	27AUG	13:24	SUR	33.7	7.3	103	889	103
			1.0	33.4	7.1	102		
			1.3	33.3	7.1	89		
	10SEP	9:39	SUR	29.3	6.5	86	815	117
			1.0	29.0	6.1	79		
	24SEP	14:02	MID	23.2	9.3	109	733	103
403 #9	21MAY	12:27	SUR	26.7	9.1	113	1152	56
			1.0	26.7	9.0	113		
			2.0	26.7	8.9	112		
403 #29	21MAY	13:00	SUR	29.3	8.7	115	1144	50
			1.0	29.4	8.7	115		
			2.0	29.4	8.8	115		
			3.0	29.4	8.7	115		
403 #9	05JUN	16:18	MID	27.1	9.6	120	848	55
403 #29	05JUN	17:01	MID	27.9	9.3	119	863	69
403 #9	02JUL	14:48	MID	22.8	8.9	104	827	105
403 #29	02JUL	15:20	SUR	30.1	8.0	106	810	91
			1.0	30.2	7.9	106		
403 #9	16JUL	10:33	SUR	32.3	6.8	93	898	99
			1.0	32.3	6.7	93		
	16JUL	10:58	SUR	36.2	7.6	112	890	83
			1.0	36.2	7.5	110		
			2.0	36.3	7.5	112		
403 #9	15AUG	14:25	SUR	28.2	8.8	112	834	45
			1.0	28.3	8.7	111		
	15AUG	14:50	SUR	29.7	8.4	110	826	73
			1.0	29.7	8.4	110		
			2.0	29.8	8.3	110		
403 #9	27AUG	14:35	MID	33.8	8.4	119	887	92
403 #29	27AUG	15:01	MID	35.7	8.2	119	875	83
403 #9	10SEP	10:41	SUR	32.1	6.6	90	817	93
			1.0	32.2	6.5	89		
	10SEP	11:04	SUR	35.9	6.9	100	820	92
			1.0	36.1	6.9	101		
			1.5	36.2	6.7	99		
403 #9	24SEP	15:01	MID	29.1	8.3	108	756	110
	24SEP	15:20	SUR	30.3	8.3	112	763	100
			1.0	30.3	8.3	110		
403A RDB	21MAY	13:54	SUR	27.5	10.2	121	1137	49
			1.0	27.1	9.2	114		
403A LDB	21MAY	14:13	SUR	28.1	8.8	113	1126	42
			1.0	28.1	8.9	114		
			2.0	28.1	8.9	114		
403A RDB	05JUN	17:52	MID	25.5	7.5	92	857	67
403A LDB	05JUN	18:13	MID	22.6	8.4	98	874	59
403A RDB	02JUL	16:07	MID	27.2	8.0	103	813	100
403A LDB	02JUL	16:23	MID	27.5	8.2	103	827	94
403A RDB	16JUL	11:50	SUR	33.5	8.2	118	898	100
			1.0	32.7	7.8	98		
	16JUL	12:09	SUR	33.7	7.7	108	886	94
				33.6	8.0	112		
403A RDB	15AUG	15:31	MID	28.1	7.7	97	801	104
403A LDB	15AUG	15:49	SUR	29.0	8.1	106	809	102
			1.0	28.9	8.0	104		
			2.0	27.7	7.1	89		
403A RDB	27AUG	15:57	MID	34.1	6.4	89	885	87
403A LDB	27AUG	16:11	MID	34.5	9.8	140	894	113
403A RDB	10SEP	11:59	MID	33.9	6.8	97	810	115
403A LDB	10SEP	12:15	SUR	34.5	6.7	96	813	99
			1.0	32.4	6.6	89		
	24SEP	16:19	MID	29.3	7.8	101	760	109
403 LDB	24SEP	16:35	SUR	29.4	8.2	108	758	114
			1.0	28.8	8.2	107		
	21MAY	15:03	MID	25.7	8.0	97	1136	50
404A	05JUN	19:08	MID	22.8	7.8	92	836	66
	02JUL	17:15	MID	23.7	8.2	98	804	76
	13JUL	13:05	MID	32.5	8.5	121	921	93
	15AUG	16:35	MID	27.1	11.9	148	771	96
	27AUG	17:17	MID	31.2	9.9	132	874	112
	10SEP	13:08	MID	31.9	8.4	116	783	128
	24SEP	17:18	MID	26.1	10.8	133	712	98

APPENDIX A (cont.)

LOCATION	DATE	TIME	DEPTH	TEMP (C)	D.O. (ppm)	D.O. (% SAT)	SPEC COND (uS/cm)	SECCHI (cm)
405	21MAY	16:25	MID	26.3	8.5	106	1113	41
	06JUN	9:21	MID	22.2	6.2	71	863	64
	02JUL	18:22	MID	23.6	10.1	118	802	79
	16JUL	14:12	MID	31.0	7.2	96	1004	114
	15AUG	17:33	MID	25.0	6.1	73	928	107
	27AUG	18:20	MID	29.2	6.4	84	1004	85
	10SEP	14:50	MID	30.5	10.6	141	805	65
	25SEP	8:44	MID	21.0	6.2	69	940	91
	21MAY	17:42	MID	25.5	7.2	89	1132	50
	06JUN	7:44	MID	22.0	6.2	74	846	62
408	03JUL	10:57	MID	23.6	5.9	68	813	87
	16JUL	15:15	MID	32.5	14.9	205	896	99
	16AUG	7:50	MID	25.5	5.8	71	800	164
	28AUG	10:10	MID	30.1	8.8	113	864	108
	10SEP	16:06	MID	31.3	13.1	176	833	77
	25SEP	10:00	MID	21.9	6.9	78	751	138
	22MAY	8:30	SUR	22.2	5.8	66	808	51
			1.0	22.3	5.6	65		
	06JUN	15:14	MID	22.3	8.4	95	927	58
	03JUL	12:14	MID	23.5	7.3	85	839	92
412A	17JUL	7:46	MID	30.6	6.5	88	940	104
	16AUG	8:51	MID	25.0	7.4	88	809	117
	28AUG	12:59	MID	30.8	10.2	142	881	116
	11SEP	10:33	MID	29.7	6.5	87	819	102
	25SEP	11:13	MID	23.3	7.9	92	759	128
	22MAY	9:46	MID	23.8	4.2	51	1058	59
	06JUN	16:02	MID	23.9	8.3	96	883	54
	03JUL	13:28	MID	22.5	5.9	70	827	95
	17JUL	8:55	MID	30.8	6.3	84	972	34
	16AUG	9:50	MID	22.3	6.0	69	923	39
414	28AUG	14:22	MID	26.6	12.1	151	1063	65
	11SEP	11:43	MID	27.6	9.8	125	1051	29
	25SEP	12:24	MID	21.3	6.6	75	742	29
	22MAY	12:03	MID	23.6	4.9	58	1106	60
	06JUN	12:25	MID	20.6	12.9	145	884	40
	03JUL	15:24	MID	21.4	8.5	93	761	50
	17JUL	10:58	MID	31.5	8.2	112	901	46
	16AUG	12:24	MID	23.6	4.2	56	926	44
	28AUG	16:53	MID	28.5	7.2	98	901	51
	11SEP	13:48	MID	28.9	5.9	77	885	67
418	25SEP	14:51	MID	21.0	8.9	96	851	45
	22MAY	13:31	SUR	23.3	6.5	77	1048	61
			1.0	23.4	6.6	77		
			2.0	23.4	6.7	78		
			3.0	23.4	6.6	72		
	06JUN	14:15	MID	22.4	8.0	91	855	64
	03JUL	16:56	MID	23.9	7.7	92	837	90
	17JUL	12:45	MID	32.9	7.4	103	952	121
	16AUG	13:52	MID	26.6	8.7	109	823	102
	28AUG	18:43	MID	29.5	6.6	84	898	110
419A	11SEP	15:10	MID	30.7	7.4	99	816	84
	25SEP	16:13	SUR	24.1	7.6	90	744	99
			1.0	24.0	7.3	84		

APPENDIX B

CATCH-PER-EFFORT AND RELATIVE ABUNDANCE SUMMARIES
(native species only)

UPPER ILLINOIS WATERWAY -- 2013

APPENDIX B

TABLE B-1. TOTAL NUMBER, CATCH-PER-EFFORT (#/km), AND RELATIVE ABUNDANCE OF NATIVE FISH COLLECTED BY ELECTROFISHING AT EACH LOCATION IN THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOCATION											
	301			302			302A			302B		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	2	0.5	1.34	--	--	--	--	--	--
GIZZARD SHAD	25	6.3	75.76	127	31.8	85.23	19	4.8	5.40	41	10.3	7.55
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	4	1.0	0.74
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	--	8	2.0	5.37	1	0.3	0.28	2	0.5	0.37
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	3	0.8	2.01	1	0.3	0.28	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	--	--	--	1	0.3	0.67	26	6.5	7.39	114	28.5	20.99
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	1	0.3	0.28	4	1.0	0.74
CHANNEL CATFISH	--	--	--	--	--	--	4	1.0	1.14	9	2.3	1.66
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	3	0.8	0.85	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	1	0.3	0.18
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	5	1.3	15.15	1	0.3	0.67	40	10.0	11.36	137	34.3	25.23
PUMPKINSEED	--	--	--	--	--	--	114	28.5	32.39	96	24.0	17.68
WARMOUTH	--	--	--	--	--	--	1	0.3	0.28	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	1	0.3	0.18
BLUEGILL	1	0.3	3.03	--	--	--	110	27.5	31.25	114	28.5	20.99
NORTHERN SUNFISH	--	--	--	--	--	--	2	0.5	0.57	--	--	--
Lepomis HYBRID	--	--	--	--	--	--	2	0.5	0.57	--	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	1	0.3	0.18
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	2	0.5	6.06	7	1.8	4.70	27	6.8	7.67	17	4.3	3.13
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	1	0.3	0.28	2	0.5	0.37
TOTAL FISH	33	8.3	100.00	149	37.3	100.00	352	88.0	100.00	543	135.8	100.00
TOTAL SPECIES	4			7			14			13		
MEAN NO. OF SPECIES	1			2			6			8		
MEAN IWB	1.41			3.02			5.67			6.26		
MEAN IWBmod	1.18			2.61			5.09			5.66		

APPENDIX B (cont.)

TABLE B-1 (cont.)

SPECIES	LOCATION											
	303			304			305			306		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	23	5.8	27.06	5	1.3	1.40	341	85.3	64.95	57	14.3	23.85
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	1	0.3	0.28	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	3	0.8	1.26
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	1	0.3	1.18	7	1.8	1.96	--	--	--	8	2.0	3.35
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	2	0.5	0.56	1	0.3	0.19	1	0.3	0.42
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	9	2.3	10.59	94	23.5	26.26	32	8.0	6.10	34	8.5	14.23
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	7	1.8	1.96	1	0.3	0.19	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
SHORTHHEAD REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	11	2.8	12.94	25	6.3	6.98	4	1.0	0.76	3	0.8	1.26
CHANNEL CATFISH	1	0.3	1.18	27	6.8	7.54	2	0.5	0.38	5	1.3	2.09
TADPOLE MADTOM	--	--	--	2	0.5	0.56	2	0.5	0.38	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	1	0.3	0.19	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	1	0.3	0.28	2	0.5	0.38	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	1	0.3	0.19	--	--	--
YELLOW BASS	--	--	--	1	0.3	0.28	--	--	--	--	--	--
ROCK BASS	--	--	--	7	1.8	1.96	--	--	--	--	--	--
GREEN SUNFISH	21	5.3	24.71	23	5.8	6.42	32	8.0	6.10	12	3.0	5.02
PUMPKINSEED	2	0.5	2.35	18	4.5	5.03	37	9.3	7.05	17	4.3	7.11
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	1	0.3	1.18	7	1.8	1.96	21	5.3	4.00	3	0.8	1.26
BLUEGILL	4	1.0	4.71	73	18.3	20.39	30	7.5	5.71	71	17.8	29.71
NORTHERN SUNFISH	--	--	--	2	0.5	0.56	--	--	--	--	--	--
Lepomis HYBRID	2	0.5	2.35	1	0.3	0.28	--	--	--	5	1.3	2.09
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	1	0.3	1.18	40	10.0	11.17	2	0.5	0.38	3	0.8	1.26
LARGEMOUTH BASS	4	1.0	4.71	6	1.5	1.68	14	3.5	2.67	13	3.3	5.44
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	1	0.3	0.28	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	3	0.8	0.84	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	3	0.8	0.84	--	--	--	--	--	--
FRESHWATER DRUM	5	1.3	5.88	2	0.5	0.56	2	0.5	0.38	4	1.0	1.67
TOTAL FISH	85	21.3	100.00	358	89.5	100.00	525	131.3	100.00	239	59.8	100.00
TOTAL SPECIES	12			23			17			14		
MEAN NO. OF SPECIES	4			10			7			8		
MEAN IWB	4.34			6.77			5.94			5.94		
MEAN IWBmod	3.64			5.86			5.55			5.37		

APPENDIX B (cont.)

TABLE B-1 (cont.)

SPECIES	LOCATION											
	307			309			402			402A		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	--	--	7	1.8	1.90	--	--	--
GIZZARD SHAD	121	30.3	33.61	56	14.0	48.28	45	11.3	12.23	117	29.3	20.45
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	1	0.3	0.27	--	--	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	7	1.8	1.94	--	--	--	6	1.5	1.63	2	0.5	0.35
GHOST SHINER	--	--	--	--	--	--	--	--	--	1	0.3	0.17
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	2	0.5	0.54	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	1	0.3	0.27	--	--	--
SPOTFIN SHINER	1	0.3	0.28	--	--	--	10	2.5	2.72	2	0.5	0.35
MIMIC SHINER	--	--	--	--	--	--	1	0.3	0.27	--	--	--
BLUNTNOSE MINNOW	88	22.0	24.44	8	2.0	6.90	16	4.0	4.35	128	32.0	22.38
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	2	0.5	0.54	5	1.3	0.87
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	1	0.3	0.86	1	0.3	0.27	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	11	2.8	2.99	16	4.0	2.80
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	1	0.3	0.17
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	1	0.3	0.17
SHORthead REDHORSE	--	--	--	--	--	--	7	1.8	1.90	--	--	--
YELLOW BULLHEAD	2	0.5	0.56	--	--	--	4	1.0	1.09	1	0.3	0.17
CHANNEL CATFISH	3	0.8	0.83	--	--	--	16	4.0	4.35	6	1.5	1.05
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPED TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	5	1.3	1.36	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	9	2.3	2.45	--	--	--
GREEN SUNFISH	56	14.0	15.56	2	0.5	1.72	45	11.3	12.23	48	12.0	8.39
PUMPKINSEED	10	2.5	2.78	12	3.0	10.34	8	2.0	2.17	19	4.8	3.32
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	3	0.8	0.83	--	--	--	--	--	--	1	0.3	0.17
BLUEGILL	41	10.3	11.39	10	2.5	8.62	84	21.0	22.83	146	36.5	25.52
NORTHERN SUNFISH	--	--	--	--	--	--	1	0.3	0.27	--	--	--
Lepomis HYBRID	2	0.5	0.56	--	--	--	19	4.8	5.16	16	4.0	2.80
Lepomis sp.	--	--	--	2	0.5	1.72	--	--	--	--	--	--
SMALLMOUTH BASS	1	0.3	0.28	1	0.3	0.86	11	2.8	2.99	--	--	--
LARGEMOUTH BASS	23	5.8	6.39	22	5.5	18.97	34	8.5	9.24	50	12.5	8.74
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	1	0.3	0.17
JOHNNY DARTER	--	--	--	--	--	--	1	0.3	0.27	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	1	0.3	0.27	--	--	--
FRESHWATER DRUM	2	0.5	0.56	2	0.5	1.72	20	5.0	5.43	11	2.8	1.92
TOTAL FISH	360	90.0	100.00	116	29.0	100.00	368	92.0	100.00	572	143.0	100.00
TOTAL SPECIES	13			9			26			18		
MEAN NO. OF SPECIES	7			4			12			9		
MEAN IWB	5.83			3.86			7.99			7.57		
MEAN IWBmod	5.21			3.30			7.55			7.24		

APPENDIX B (cont.)

TABLE B-1 (cont.)

SPECIES	LOCATION											
	403			403A			404A			405		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	13	3.3	1.85	3	0.8	0.95	2	0.5	0.46	--	--	--
GIZZARD SHAD	267	66.8	37.98	35	8.8	11.04	24	6.0	5.53	149	37.3	18.19
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	1	0.3	0.12
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	11	2.8	1.56	--	--	--	1	0.3	0.23	1	0.3	0.12
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	1	0.3	0.12
SPOTTAIL SHINER	--	--	--	--	--	--	2	0.5	0.46	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	9	2.3	1.28	--	--	--	7	1.8	1.61	3	0.8	0.37
MIMIC SHINER	2	0.5	0.28	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	3	0.8	0.43	33	8.3	10.41	106	26.5	24.42	176	44.0	21.49
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	1	0.3	0.32	--	--	--	--	--	--
QUILLBACK	1	0.3	0.14	1	0.3	0.32	1	0.3	0.23	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	6	1.5	0.85	5	1.3	1.58	4	1.0	0.92	1	0.3	0.12
BLACK BUFFALO	--	--	--	1	0.3	0.32	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
SHORthead REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	1	0.3	0.14	--	--	--	1	0.3	0.23	5	1.3	0.61
CHANNEL CATFISH	52	13.0	7.40	9	2.3	2.84	18	4.5	4.15	7	1.8	0.85
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	2	0.5	0.28	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPED TOPMINNOW	7	1.8	1.00	--	--	--	--	--	--	1	0.3	0.12
BROOK SILVERSIDE	--	--	--	--	--	--	1	0.3	0.23	2	0.5	0.24
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	63	15.8	8.96	13	3.3	4.10	59	14.8	13.59	121	30.3	14.77
PUMPKINSEED	17	4.3	2.42	7	1.8	2.21	5	1.3	1.15	14	3.5	1.71
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	165	41.3	23.47	166	41.5	52.37	149	37.3	34.33	195	48.8	23.81
NORTHERN SUNFISH	1	0.3	0.14	--	--	--	1	0.3	0.23	32	8.0	3.91
Lepomis HYBRID	55	13.8	7.82	6	1.5	1.89	8	2.0	1.84	31	7.8	3.79
Lepomis sp.	2	0.5	0.28	--	--	--	--	--	--	2	0.5	0.24
SMALLMOUTH BASS	2	0.5	0.28	1	0.3	0.32	3	0.8	0.69	--	--	--
LARGEMOUTH BASS	22	5.5	3.13	28	7.0	8.83	37	9.3	8.53	75	18.8	9.16
BLACK CRAPPIE	--	--	--	1	0.3	0.32	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	1	0.3	0.32	--	--	--	--	--	--
FRESHWATER DRUM	2	0.5	0.28	6	1.5	1.89	5	1.3	1.15	2	0.5	0.24
TOTAL FISH	703	175.8	100.00	317	79.3	100.00	434	108.5	100.00	819	204.8	100.00
TOTAL SPECIES	19			16			18			17		
MEAN NO. OF SPECIES	9			8			8			8		
MEAN IWB	6.95			6.45			6.69			6.52		
MEAN IWBmod	6.72			6.26			6.36			6.05		

APPENDIX B (cont.)

TABLE B-1 (cont.)

SPECIES	LOCATION											
	408			412A			414			418		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
SPOTTED GAR	--	--	--	--	--	--	--	--	--	1	0.3	0.10
LONGNOSE GAR	--	--	--	1	0.3	0.16	--	--	--	--	--	--
GIZZARD SHAD	95	23.8	12.82	59	14.8	9.61	93	23.3	6.58	117	29.3	11.81
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	1	0.3	0.13	1	0.3	0.16	1	0.3	0.07	1	0.3	0.10
PALLID SHINER	--	--	--	--	--	--	1	0.3	0.07	--	--	--
EMERALD SHINER	9	2.3	1.21	2	0.5	0.33	--	--	--	--	--	--
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	1	0.3	0.13	2	0.5	0.33	3	0.8	0.21	1	0.3	0.10
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1	0.3	0.13	3	0.8	0.49	3	0.8	0.21	2	0.5	0.20
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	81	20.3	10.93	123	30.8	20.03	7	1.8	0.50	60	15.0	6.05
BULLHEAD MINNOW	1	0.3	0.13	--	--	--	1	0.3	0.07	11	2.8	1.11
RIVER CARPSUCKER	1	0.3	0.13	--	--	--	3	0.8	0.21	--	--	--
QUILLBACK	--	--	--	--	--	--	--	--	--	1	0.3	0.10
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	2	0.5	0.33	4	1.0	0.28	3	0.8	0.30
BLACK BUFFALO	1	0.3	0.13	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	1	0.3	0.16	--	--	--	1	0.3	0.10
SHORHEAD REDHORSE	--	--	--	1	0.3	0.16	--	--	--	1	0.3	0.10
YELLOW BULLHEAD	7	1.8	0.94	--	--	--	7	1.8	0.50	2	0.5	0.20
CHANNEL CATFISH	6	1.5	0.81	--	--	--	5	1.3	0.35	3	0.8	0.30
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	1	0.3	0.16	1	0.3	0.07	--	--	--
BROOK SILVERSIDE	1	0.3	0.13	2	0.5	0.33	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	4	1.0	0.40
ROCK BASS	--	--	--	2	0.5	0.33	--	--	--	--	--	--
GREEN SUNFISH	81	20.3	10.93	15	3.8	2.44	51	12.8	3.61	158	39.5	15.94
PUMPKINSEED	12	3.0	1.62	12	3.0	1.95	14	3.5	0.99	2	0.5	0.20
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	6	1.5	0.81	--	--	--	54	13.5	3.82	6	1.5	0.61
BLUEGILL	295	73.8	39.81	305	76.3	49.67	1020	255.0	72.19	507	126.8	51.16
NORTHERN SUNFISH	7	1.8	0.94	9	2.3	1.47	2	0.5	0.14	5	1.3	0.50
Lepomis HYBRID	56	14.0	7.56	3	0.8	0.49	10	2.5	0.71	16	4.0	1.61
Lepomis sp.	2	0.5	0.27	--	--	--	31	7.8	2.19	6	1.5	0.61
SMALLMOUTH BASS	--	--	--	2	0.5	0.33	--	--	--	--	--	--
LARGEMOUTH BASS	71	17.8	9.58	68	17.0	11.07	100	25.0	7.08	68	17.0	6.86
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	2	0.5	0.27	--	--	--	--	--	--	--	--	--
LOGPERCH	1	0.3	0.13	--	--	--	--	--	--	8	2.0	0.81
BLACKSIDE DARTER	2	0.5	0.27	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	1	0.3	0.13	--	--	--	2	0.5	0.14	7	1.8	0.71
TOTAL FISH	741	185.3	100.00	614	153.5	100.00	1413	353.3	100.00	991	247.8	100.00
TOTAL SPECIES	22			19			19			22		
MEAN NO. OF SPECIES	10			8			9			9		
MEAN IWB	7.32			6.02			7.00			7.06		
MEAN IWBmod	6.83			5.77			6.88			6.81		

TABLE B-1 (cont.)

SPECIES	LOCATION 419A		
	#	CPE	%
SPOTTED GAR	--	--	--
LONGNOSE GAR	--	--	--
GIZZARD SHAD	31	7.8	9.60
GRASS PICKEREL	--	--	--
NORTHERN PIKE	--	--	--
GOLDEN SHINER	--	--	--
PALLID SHINER	--	--	--
EMERALD SHINER	--	--	--
GHOST SHINER	--	--	--
STRIPED SHINER	--	--	--
SPOTTAIL SHINER	1	0.3	0.31
ROSYFACE SHINER	--	--	--
SPOTFIN SHINER	2	0.5	0.62
MIMIC SHINER	--	--	--
BLUNTNOSE MINNOW	5	1.3	1.55
BULLHEAD MINNOW	--	--	--
RIVER CARPSUCKER	2	0.5	0.62
QUILLBACK	--	--	--
WHITE SUCKER	--	--	--
SMALLMOUTH BUFFALO	7	1.8	2.17
BLACK BUFFALO	--	--	--
SILVER REDHORSE	--	--	--
GOLDEN REDHORSE	3	0.8	0.93
SHORthead REDHORSE	--	--	--
YELLOW BULLHEAD	--	--	--
CHANNEL CATFISH	9	2.3	2.79
TADPOLE MADTOM	--	--	--
FLATHEAD CATFISH	1	0.3	0.31
BANDED KILLIFISH	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--
BROOK SILVERSIDE	--	--	--
WHITE BASS	--	--	--
YELLOW BASS	--	--	--
ROCK BASS	2	0.5	0.62
GREEN SUNFISH	35	8.8	10.84
PUMPKINSEED	1	0.3	0.31
WARMOUTH	--	--	--
ORANGESPOTTED SUNFISH	--	--	--
BLUEGILL	157	39.3	48.61
NORTHERN SUNFISH	6	1.5	1.86
Lepomis HYBRID	1	0.3	0.31
Lepomis sp.	--	--	--
SMALLMOUTH BASS	3	0.8	0.93
LARGEMOUTH BASS	52	13.0	16.10
BLACK CRAPPIE	--	--	--
JOHNNY DARTER	--	--	--
YELLOW PERCH	--	--	--
LOGPERCH	2	0.5	0.62
BLACKSIDE DARTER	--	--	--
FRESHWATER DRUM	3	0.8	0.93
TOTAL FISH	323	80.8	100.00
TOTAL SPECIES	18		
MEAN NO. OF SPECIES	7		
MEAN IWB	6.15		
MEAN IWBmod	5.96		

APPENDIX B (cont.)

TABLE B-2. TOTAL NUMBER, CATCH-PER-EFFORT (#/haul), AND RELATIVE ABUNDANCE OF NATIVE FISH COLLECTED BY SEINING AT EACH LOCATION IN THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOCATION											
	302A			304			305			306		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	--	--	--	--	--	--	--	--	--	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	--	3	0.4	1.55	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	2	0.3	1.04	1	0.1	1.75	--	--	--
SAND SHINER	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	--	--	--	83	10.4	43.01	28	3.5	49.12	108	13.5	81.82
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	1	0.1	33.33	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	2	0.3	3.51	2	0.3	1.52
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	2	0.3	3.51	--	--	--
TADPOLE MADTOM	--	--	--	2	0.3	1.04	3	0.4	5.26	2	0.3	1.52
BANDED KILLIFISH	--	--	--	9	1.1	4.66	5	0.6	8.77	--	--	--
BLACKSTRIPED TOPMINNOW	--	--	--	56	7.0	29.02	6	0.8	10.53	7	0.9	5.30
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--
PUMPKINSEED	1	0.1	33.33	21	2.6	10.88	4	0.5	7.02	5	0.6	3.79
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	1	0.1	33.33	2	0.3	1.04	2	0.3	3.51	4	0.5	3.03
NORTHERN SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis HYBRID	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	1	0.1	0.52	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	--	1	0.1	0.52	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	9	1.1	4.66	3	0.4	5.26	4	0.5	3.03
BLACK CRAPPIE	--	--	--	1	0.1	0.52	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	2	0.3	1.04	1	0.1	1.75	--	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	1	0.1	0.52	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	3	0.4	100.00	193	24.1	100.00	57	7.1	100.00	132	16.5	100.00
TOTAL SPECIES	3			13			11			7		
MEAN NO. OF SPECIES	<1			3			3			3		

APPENDIX B (cont.)

TABLE B-2 (cont.)

SPECIES	LOCATION											
	307			402			403A			404A		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	--	--	--	--	1	0.1	0.28	--	--	--
Dorosoma sp.	--	--	--	--	--	--	--	--	--	1	0.1	0.20
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	2	0.3	1.85	--	--	--	3	0.4	0.60
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	8	1.0	7.41	--	--	--	--	--	--
SPOTFIN SHINER	1	0.1	0.54	45	5.6	41.67	14	1.8	3.87	14	1.8	2.82
SAND SHINER	--	--	--	2	0.3	1.85	2	0.3	0.55	4	0.5	0.81
BLUNTNOSE MINNOW	143	17.9	77.30	36	4.5	33.33	311	38.9	85.91	443	55.4	89.31
FATHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	1	0.1	0.28	--	--	--
Moxostoma sp.	--	--	--	--	--	--	1	0.1	0.28	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	1	0.1	0.93	--	--	--	--	--	--
BANDED KILLIFISH	1	0.1	0.54	--	--	--	5	0.6	1.38	--	--	--
BLACKSTRIPE TOPMINNOW	2	0.3	1.08	12	1.5	11.11	6	0.8	1.66	3	0.4	0.60
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	2	0.3	0.40
GREEN SUNFISH	4	0.5	2.16	--	--	--	--	--	--	--	--	--
PUMPKINSEED	4	0.5	2.16	--	--	--	6	0.8	1.66	1	0.1	0.20
ORANGESPOTTED SUNFISH	1	0.1	0.54	--	--	--	--	--	--	--	--	--
BLUEGILL	18	2.3	9.73	--	--	--	8	1.0	2.21	19	2.4	3.83
NORTHERN SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis HYBRID	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	5	0.6	2.70	--	--	--	1	0.1	0.28	5	0.6	1.01
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	6	0.8	3.24	2	0.3	1.85	6	0.8	1.66	1	0.1	0.20
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	185	23.1	100.00	108	13.5	100.00	362	45.3	100.00	496	62.0	100.00
TOTAL SPECIES	9			8			11			10		
MEAN NO. OF SPECIES	3			2			3			4		

APPENDIX B (cont.)

TABLE B-2 (cont.)

SPECIES	LOCATION											
	405			408			412A			414		
	#	CPE	%	#	CPE	%	#	CPE	%	#	CPE	%
LONGNOSE GAR	--	--	--	1	0.1	0.22	--	--	--	1	0.1	0.14
GIZZARD SHAD	--	--	--	--	--	--	--	--	--	1	0.1	0.14
Dorosoma sp.	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	1	0.1	0.22	--	--	--	1	0.1	0.14
HORNHEAD CHUB	--	--	--	1	0.1	0.22	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	1	0.1	0.14
EMERALD SHINER	--	--	--	--	--	--	1	0.1	0.58	--	--	--
STRIPED SHINER	--	--	--	8	1.0	1.79	--	--	--	5	0.6	0.68
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	1	0.1	0.14
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1	0.1	0.42	--	--	--	--	--	--	3	0.4	0.41
SAND SHINER	5	0.6	2.10	--	--	--	--	--	--	1	0.1	0.14
BLUNTNOSE MINNOW	186	23.3	78.15	149	18.6	33.26	96	12.0	55.81	304	38.0	41.14
FATHEAD MINNOW	5	0.6	2.10	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	4	0.5	0.54
WHITE SUCKER	--	--	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	1	0.1	0.14
BLACKSTRIPE TOPMINNOW	1	0.1	0.42	40	5.0	8.93	--	--	--	7	0.9	0.95
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	--	--	--	--	1	0.1	0.58	2	0.3	0.27
PUMPKINSEED	--	--	--	6	0.8	1.34	--	--	--	13	1.6	1.76
ORANGESPOTTED SUNFISH	--	--	--	5	0.6	1.12	--	--	--	33	4.1	4.47
BLUEGILL	6	0.8	2.52	143	17.9	31.92	62	7.8	36.05	272	34.0	36.81
NORTHERN SUNFISH	2	0.3	0.84	2	0.3	0.45	--	--	--	10	1.3	1.35
Lepomis HYBRID	--	--	--	2	0.3	0.45	--	--	--	1	0.1	0.14
Lepomis sp.	9	1.1	3.78	73	9.1	16.29	3	0.4	1.74	41	5.1	5.55
SMALLMOUTH BASS	1	0.1	0.42	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	18	2.3	7.56	9	1.1	2.01	9	1.1	5.23	37	4.6	5.01
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	1	0.1	0.42	--	--	--	--	--	--	--	--	--
ORANGETHROAT DARTER	3	0.4	1.26	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	8	1.0	1.79	--	--	--	--	--	--
TOTAL FISH	238	29.8	100.00	448	56.0	100.00	172	21.5	100.00	739	92.4	100.00
TOTAL SPECIES	11			12			5			18		
MEAN NO. OF SPECIES	3			5			2			5		

APPENDIX B (cont.)

TABLE B-2 (cont.)

SPECIES	LOCATION					
	418			419A		
	#	CPE	%	#	CPE	%
LONGNOSE GAR	--	--	--	--	--	--
GIZZARD SHAD	--	--	--	--	--	--
Dorosoma sp.	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	1	0.1	0.94
HORNYHEAD CHUB	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--
EMERALD SHINER	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--
SPOTFIN SHINER	2	0.3	0.86	2	0.3	1.89
SAND SHINER	--	--	--	--	--	--
BLUNTNOSE MINNOW	45	5.6	19.40	53	6.6	50.00
FATHEAD MINNOW	--	--	--	--	--	--
BULLHEAD MINNOW	4	0.5	1.72	--	--	--
WHITE SUCKER	--	--	--	--	--	--
Moxostoma sp.	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--
TADPOLE MADTOM	1	0.1	0.43	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	3	0.4	1.29	8	1.0	7.55
BROOK SILVERSIDE	23	2.9	9.91	--	--	--
ROCK BASS	--	--	--	--	--	--
GREEN SUNFISH	3	0.4	1.29	1	0.1	0.94
PUMPKINSEED	3	0.4	1.29	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--
BLUEGILL	70	8.8	30.17	28	3.5	26.42
NORTHERN SUNFISH	--	--	--	1	0.1	0.94
Lepomis HYBRID	--	--	--	--	--	--
Lepomis sp.	76	9.5	32.76	4	0.5	3.77
SMALLMOUTH BASS	--	--	--	--	--	--
LARGEMOUTH BASS	2	0.3	0.86	8	1.0	7.55
BLACK CRAPPIE	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--
ORANGETHROAT DARTER	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--
TOTAL FISH	232	29.0	100.00	106	13.3	100.00
TOTAL SPECIES	10			8		
MEAN NO. OF SPECIES	4			3		

APPENDIX B (cont.)

2013 UPPER ILLINOIS WATERWAY FISH STUDY -- CPE AND COMPOSITION SUMMARIES FOR EACH SURVEY (ELECTRO=No./km)

GEAR: ELECTRO and LOCATION: 301

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	--	--	--	--	--	--	4.0	66.7	22.0	100.0	8.0	100.0	--	--	16.0	80.0
GREEN SUNFISH	2.0	50.0	4.0	100.0	--	--	2.0	33.3	--	--	--	--	2.0	100.0	--	--
BLUEGILL	2.0	50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	20.0
TOTAL FISH	4.0	100.0	4.0	100.0	0.0	--	6.0	100.0	22.0	100.0	8.0	100.0	2.0	100.0	20.0	100.0

GEAR: ELECTRO and LOCATION: 302

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	2.0	50.0	--	--	2.0	50.0	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	--	--	2.0	50.0	8.0	44.4	186.0	96.9	30.0	78.9	20.0	90.9	8.0	50.0
EMERALD SHINER	--	--	--	--	--	--	6.0	33.3	6.0	3.1	--	--	2.0	9.1	2.0	12.5
SPOTFIN SHINER	2.0	50.0	--	--	--	--	4.0	22.2	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	--	2.0	50.0	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	2.0	50.0	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	--	--	--	--	--	--	8.0	21.1	--	--	6.0	37.5
TOTAL FISH	4.0	100.0	4.0	100.0	4.0	100.0	18.0	100.0	192.0	100.0	38.0	100.0	22.0	100.0	16.0	100.0

GEAR: ELECTRO and LOCATION: 302A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	--	--	18.0	5.7	6.0	8.8	2.0	2.5	2.0	8.3	6.0	12.5	4.0	9.1	--	--
EMERALD SHINER	--	--	--	--	2.0	2.9	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	2.0	2.9	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	8.0	11.8	20.0	6.3	4.0	5.9	--	--	--	--	--	--	14.0	31.8	6.0	10.7
YELLOW BULLHEAD	2.0	2.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHANNEL CATFISH	8.0	11.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	4.0	5.9	--	--	--	--	--	--	--	--	2.0	3.6
GREEN SUNFISH	4.0	5.9	38.0	12.0	4.0	5.9	--	--	12.0	50.0	16.0	33.3	--	--	6.0	10.7
PUMPKINSEED	32.0	47.1	72.0	22.8	18.0	26.5	52.0	65.0	2.0	8.3	10.0	20.8	14.0	31.8	28.0	50.0
WARMOUTH	--	--	--	--	--	2.0	2.5	--	--	--	--	--	--	--	--	BLUEGILL
NORTHERN SUNFISH	8.0	11.8	160.0	50.6	12.0	17.6	16.0	20.0	--	--	6.0	12.5	8.0	18.2	10.0	17.9
Lepomis HYBRID	--	--	4.0	1.3	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	6.0	8.8	--	--	16.0	23.5	8.0	10.0	6.0	25.0	10.0	20.8	4.0	9.1	4.0	7.1
FRESHWATER DRUM	--	--	--	--	--	--	--	--	2.0	8.3	--	--	--	--	--	--
TOTAL FISH	68.0	100.0	316.0	100.0	68.0	100.0	80.0	100.0	24.0	100.0	48.0	100.0	44.0	100.0	56.0	100.0

GEAR: ELECTRO and LOCATION: 302B

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	12.0	14.3	2.0	0.8	--	--	4.0	1.9	20.0	17.5	24.0	21.8	2.0	2.7	18.0	15.0
GOLDEN SHINER	4.0	4.8	--	--	--	--	4.0	1.9	--	--	--	--	--	--	--	--
EMERALD SHINER	4.0	4.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	16.0	19.0	40.0	16.8	70.0	53.0	14.0	6.5	32.0	28.1	20.0	18.2	12.0	16.2	24.0	20.0
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	2.0	1.8	4.0	5.4	2.0	1.7
CHANNEL CATFISH	8.0	9.5	2.0	0.8	1.5	2.0	0.9	2.0	1.8	2.0	1.8	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	2.0	1.5	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	16.0	19.0	48.0	20.2	36.0	27.3	18.0	8.4	36.0	31.6	30.0	27.3	40.0	54.1	50.0	41.7
PUMPKINSEED	2.0	2.4	30.0	12.6	8.0	6.1	112.0	52.3	14.0	12.3	18.0	16.4	2.0	2.7	6.0	5.0
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.7
BLUEGILL	18.0	21.4	116.0	48.7	4.0	3.0	58.0	27.1	2.0	1.8	10.0	9.1	4.0	5.4	16.0	13.3
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	2.0	2.7	--	--	--	--
BASS	--	--	--	--	10.0	7.6	2.0	0.9	8.0	7.0	4.0	3.6	8.0	10.8	2.0	1.7
DRUM	4.0	4.8	--	--	--	--	--	--	--	--	--	--	--	--	--	FRESHWATER
TOTAL FISH	84.0	100.0	238.0	100.0	132.0	100.0	214.0	100.0	114.0	100.0	110.0	100.0	74.0	100.0	120.0	100.0

APPENDIX B (cont.)

GEAR: ELECTRO and LOCATION: 303

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	4.0	15.4	--	--	10.0	50.0	4.0	22.2	10.0	38.5	2.0	6.3	6.0	50.0	10.0	62.5
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	2.0	6.3	--	--	--	--
BLUNTNOST MINNOW	--	--	--	--	--	--	2.0	11.1	12.0	46.2	--	--	4.0	33.3	--	--
YELLOW BULLHEAD	12.0	46.2	4.0	20.0	--	--	2.0	11.1	2.0	7.7	2.0	6.3	--	--	--	--
CHANNEL CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	2.0	16.7	--	--
GREEN SUNFISH	4.0	15.4	6.0	30.0	8.0	40.0	--	--	2.0	7.7	22.0	68.8	--	--	--	--
PUMPKINSEED	2.0	7.7	--	--	--	--	--	--	--	--	2.0	6.3	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	2.0	10.0	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	--	--	6.0	30.0	--	--	--	--	--	--	--	--	--	--	2.0	12.5
Lepomis HYBRID	2.0	7.7	2.0	10.0	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	2.0	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	2.0	10.0	4.0	22.2	--	--	2.0	6.3	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	6.0	33.3	--	--	--	--	--	--	4.0	25.0
TOTAL FISH	26.0	100.0	20.0	100.0	20.0	100.0	18.0	100.0	26.0	100.0	32.0	100.0	12.0	100.0	16.0	100.0

GEAR: ELECTRO and LOCATION: 304

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	--	--	--	--	10.0	10.2	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	2.0	2.0	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	14.0	14.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	2.0	1.6	2.0	2.0	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	6.0	6.4	44.0	34.9	30.0	30.6	20.0	25.6	2.0	9.1	6.0	8.6	30.0	48.4	50.0	30.1
WHITE SUCKER	--	--	2.0	1.6	--	--	2.0	2.6	--	--	--	--	--	--	10.0	6.0
YELLOW BULLHEAD	4.0	4.3	2.0	1.6	2.0	2.0	16.0	20.5	2.0	9.1	6.0	8.6	4.0	6.5	14.0	8.4
CHANNEL CATFISH	10.0	10.6	4.0	3.2	4.0	4.1	4.0	5.1	--	--	8.0	11.4	4.0	6.5	20.0	12.0
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	4.0	5.7	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	2.0	2.0	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	2.0	2.0	--	--	--	--	--	--	--	--	--	--
ROCK BASS	2.0	2.1	--	--	--	--	2.0	2.6	--	--	2.0	2.9	2.0	3.2	6.0	3.6
GREEN SUNFISH	6.0	6.4	4.0	3.2	--	--	2.0	2.6	12.0	54.5	14.0	20.0	2.0	3.2	6.0	3.6
PUMPKINSEED	2.0	2.1	12.0	9.5	16.0	16.3	4.0	5.1	--	--	2.0	2.9	--	--	--	--
ORANGESPOTTED SUNFISH	6.0	6.4	6.0	4.8	--	--	--	--	--	--	2.0	2.9	--	--	--	--
BLUEGILL	26.0	27.7	44.0	34.9	18.0	18.4	18.0	23.1	4.0	18.2	10.0	14.3	8.0	12.9	18.0	10.8
NORTHERN SUNFISH	2.0	2.1	--	--	--	--	2.0	2.6	--	--	--	--	--	--	--	--
Lepomis HYBRID	--	--	2.0	1.6	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	16.0	17.0	4.0	3.2	4.0	4.1	8.0	10.3	2.0	9.1	12.0	17.1	6.0	9.7	28.0	16.9
LARGEMOUTH BASS	--	--	--	--	2.0	2.0	--	--	--	--	--	--	4.0	6.5	6.0	3.6
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	2.0	2.9	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6.0	3.6
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	2.0	2.9	2.0	3.2	2.0	1.2
FRESHWATER DRUM	--	--	--	--	4.0	4.1	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	94.0	100.0	126.0	100.0	98.0	100.0	78.0	100.0	22.0	100.0	70.0	100.0	62.0	100.0	166.0	100.0

GEAR: ELECTRO and LOCATION: 305

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	64.0	76.2	26.0	38.2	170.0	84.2	--	--	30.0	75.0	68.0	42.5	10.0	17.2	314.0	75.8
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.5
BLUNTNOST MINNOW	--	--	--	--	--	--	2.0	8.3	--	--	20.0	12.5	12.0	20.7	30.0	7.2
WHITE SUCKER	--	--	--	--	--	--	2.0	8.3	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	4.0	2.0	--	--	--	--	2.0	1.3	2.0	3.4	--	--
CHANNEL CATFISH	--	--	--	--	--	--	--	--	--	--	2.0	1.3	--	--	2.0	0.5
TADPOLE MADTOM	--	--	--	--	2.0	1.0	--	--	--	--	2.0	1.3	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	2.0	1.3	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	4.0	2.0	--	--	--	--	--	--	--	--	--	--
WHITE BASS	2.0	2.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	18.0	26.5	--	--	6.0	25.0	6.0	15.0	24.0	15.0	8.0	13.8	2.0	0.5
PUMPKINSEED	4.0	4.8	2.0	2.9	4.0	2.0	2.0	8.3	2.0	5.0	14.0	8.8	14.0	24.1	32.0	7.7
ORANGESPOTTED SUNFISH	--	--	2.0	2.9	4.0	2.0	2.0	8.3	--	--	12.0	7.5	4.0	6.9	18.0	4.3
BLUEGILL	10.0	11.9	18.0	26.5	4.0	2.0	6.0	25.0	2.0	5.0	10.0	6.3	6.0	10.3	4.0	1.0
SMALLMOUTH BASS	4.0	4.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	10.0	5.0	4.0	16.7	--	--	4.0	2.5	2.0	3.4	8.0	1.9
FRESHWATER DRUM	--	--	2.0	2.9	--	--	--	--	--	--	--	--	--	--	2.0	0.5
TOTAL FISH	84.0	100.0	68.0	100.0	202.0	100.0	24.0	100.0	40.0	100.0	160.0	100.0	58.0	100.0	414.0	100.0

APPENDIX B (cont.)

GEAR: ELECTRO and LOCATION: 306

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	4.0	10.0	--	--	38.0	57.6	--	--	14.0	28.0	10.0	17.2	22.0	37.9	26.0	72.2
GOLDEN SHINER	2.0	5.0	--	--	--	--	2.0	4.2	2.0	4.0	--	--	--	--	--	--
EMERALD SHINER	2.0	5.0	10.0	8.2	--	--	--	--	4.0	8.0	--	--	--	--	--	--
SPOTFIN SHINER	--	--	2.0	1.6	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSSE MINNOW	8.0	20.0	24.0	19.7	6.0	9.1	2.0	4.2	4.0	8.0	8.0	13.8	14.0	24.1	2.0	5.6
YELLOW BULLHEAD	--	--	--	--	2.0	3.0	2.0	4.2	--	--	--	--	2.0	3.4	--	--
CHANNEL CATFISH	2.0	5.0	4.0	3.3	4.0	6.1	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	2.0	5.0	4.0	3.3	2.0	3.0	10.0	20.8	4.0	8.0	2.0	3.4	--	--	--	--
PUMPKINSEED	2.0	5.0	10.0	8.2	2.0	3.0	4.0	8.3	4.0	8.0	4.0	6.9	6.0	10.3	2.0	5.6
ORANGESPOTTED SUNFISH	--	--	2.0	1.6	2.0	3.0	--	--	--	--	--	--	2.0	3.4	--	--
BLUEGILL	10.0	25.0	64.0	52.5	--	--	16.0	33.3	8.0	16.0	30.0	51.7	10.0	17.2	4.0	11.1
Lepomis HYBRID	4.0	10.0	2.0	1.6	--	--	--	--	--	--	4.0	6.9	--	--	--	--
SMALLMOUTH BASS	2.0	5.0	--	--	--	--	4.0	8.3	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	6.0	9.1	8.0	16.7	10.0	20.0	--	--	2.0	3.4	--	--
FRESHWATER DRUM	2.0	5.0	--	--	4.0	6.1	--	--	--	--	--	--	--	--	2.0	5.6
TOTAL FISH	40.0	100.0	122.0	100.0	66.0	100.0	48.0	100.0	50.0	100.0	58.0	100.0	58.0	100.0	36.0	100.0

GEAR: ELECTRO and LOCATION: 307

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	58.0	65.9	--	--	6.0	13.6	14.0	20.6	44.0	53.7	22.0	18.0	58.0	60.4	40.0	27.0
EMERALD SHINER	8.0	9.1	--	--	--	--	2.0	2.9	--	--	2.0	1.6	--	--	2.0	1.4
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.4
BLUNTNOSSE MINNOW	2.0	2.3	14.0	19.4	2.0	4.5	8.0	11.8	10.0	12.2	52.0	42.6	4.0	4.2	84.0	56.8
YELLOW BULLHEAD	--	--	--	--	--	--	2.0	2.9	--	--	--	--	2.0	2.1	--	--
CHANNEL CATFISH	--	--	--	--	--	--	2.0	2.9	4.0	4.9	--	--	--	--	--	--
GREEN SUNFISH	4.0	4.5	30.0	41.7	20.0	45.5	14.0	20.6	6.0	7.3	26.0	21.3	6.0	6.3	6.0	4.1
PUMPKINSEED	8.0	9.1	2.0	2.8	--	--	2.0	2.9	--	--	--	--	6.0	6.3	2.0	1.4
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	--	2.0	1.6	2.0	2.1	2.0	1.4
BLUEGILL	6.0	6.8	22.0	30.6	8.0	18.2	16.0	23.5	6.0	7.3	8.0	6.6	10.0	10.4	6.0	4.1
Lepomis HYBRID	--	--	--	--	--	--	2.0	2.9	--	--	--	--	2.0	2.1	--	--
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	--	--	2.0	1.6	--	--	--	--
LARGEMOUTH BASS	--	--	4.0	5.6	8.0	18.2	4.0	5.9	12.0	14.6	8.0	6.6	6.0	6.3	4.0	2.7
FRESHWATER DRUM	2.0	2.3	--	--	--	--	2.0	2.9	--	--	--	--	--	--	--	--
TOTAL FISH	88.0	100.0	72.0	100.0	44.0	100.0	68.0	100.0	82.0	100.0	122.0	100.0	96.0	100.0	148.0	100.0

GEAR: ELECTRO and LOCATION: 309

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	--	--	--	--	6.0	30.0	--	--	6.0	20.0	56.0	80.0	20.0	62.5	24.0	41.4
BLUNTNOSSE MINNOW	--	--	--	--	--	--	--	--	--	--	2.0	2.9	4.0	12.5	10.0	17.2
WHITE SUCKER	--	--	--	--	--	--	--	--	2.0	6.7	--	--	--	--	--	--
GREEN SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	6.9
PUMPKINSEED	--	--	2.0	11.1	--	--	--	--	14.0	46.7	2.0	2.9	--	--	6.0	10.3
BLUEGILL	--	--	--	--	2.0	10.0	--	--	4.0	13.3	2.0	2.9	4.0	12.5	8.0	13.8
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	4.0	5.7	--	--	--	--
SMALLMOUTH BASS	--	--	--	--	2.0	10.0	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	16.0	88.9	8.0	40.0	4.0	100.0	4.0	13.3	2.0	2.9	4.0	12.5	6.0	10.3
FRESHWATER DRUM	--	--	--	--	2.0	10.0	--	--	--	--	2.0	2.9	--	--	--	--
TOTAL FISH	0.0	--	18.0	100.0	20.0	100.0	4.0	100.0	30.0	100.0	70.0	100.0	32.0	100.0	58.0	100.0

APPENDIX B (cont.)

GEAR: ELECTRO and LOCATION: 402

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	4.0	3.3	2.0	2.0	2.0	2.1	--	--	2.0	4.3	2.0	3.6	2.0	2.9	--	--
GIZZARD SHAD	18.0	14.8	6.0	6.1	--	--	2.0	1.9	--	--	--	--	--	--	64.0	43.8
GOLDEN SHINER	2.0	1.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	6.0	4.9	--	--	--	--	--	--	4.0	8.7	--	--	2.0	2.9	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	2.0	1.9	--	--	--	--	2.0	2.9	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	2.0	3.6	--	--	--	--
SPOTFIN SHINER	2.0	1.6	--	--	2.0	2.1	--	--	--	--	--	--	4.0	5.7	12.0	8.2
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.4
BLUNTNOSE MINNOW	--	--	--	--	--	--	8.0	7.7	--	--	--	--	4.0	5.7	20.0	13.7
RIVER CARPSUCKER	2.0	1.6	--	--	--	--	2.0	1.9	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	2.0	1.9	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	2.0	1.6	4.0	4.1	12.0	12.8	--	--	--	--	--	--	--	--	4.0	2.7
SHORTHEAD REDHORSE	--	--	4.0	4.1	4.0	4.3	--	--	2.0	4.3	--	--	2.0	2.9	2.0	1.4
YELLOW BULLHEAD	2.0	1.6	2.0	2.0	--	--	--	--	4.0	8.7	--	--	--	--	--	--
CHANNEL CATFISH	4.0	3.3	--	--	6.0	6.4	6.0	5.8	2.0	4.3	2.0	3.6	4.0	5.7	8.0	5.5
WHITE BASS	8.0	6.6	2.0	2.0	--	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	4.0	3.3	2.0	2.0	2.0	2.1	6.0	5.8	--	--	2.0	3.6	2.0	2.9	--	--
GREEN SUNFISH	12.0	9.8	16.0	16.3	10.0	10.6	22.0	21.2	--	--	12.0	21.4	8.0	11.4	10.0	6.8
PUMPKINSEED	--	--	--	--	6.0	6.4	2.0	1.9	2.0	4.3	--	--	4.0	5.7	2.0	1.4
BLUEGILL	30.0	24.6	38.0	38.8	18.0	19.1	36.0	34.6	8.0	17.4	10.0	17.9	18.0	25.7	10.0	6.8
NORTHERN SUNFISH	--	--	2.0	2.0	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis HYBRID	6.0	4.9	8.0	8.2	8.0	8.5	8.0	7.7	2.0	4.3	6.0	10.7	--	--	--	--
SMALLMOUTH BASS	6.0	4.9	--	--	--	--	--	--	6.0	13.0	6.0	10.7	2.0	2.9	2.0	1.4
LARGEMOUTH BASS	8.0	6.6	8.0	8.2	10.0	10.6	8.0	7.7	10.0	21.7	12.0	21.4	8.0	11.4	4.0	2.7
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.9	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.9	--	--
FRESHWATER DRUM	6.0	4.9	4.0	4.1	14.0	14.9	--	--	4.0	8.7	2.0	3.6	4.0	5.7	6.0	4.1
TOTAL FISH	122.0	100.0	98.0	100.0	94.0	100.0	104.0	100.0	46.0	100.0	56.0	100.0	70.0	100.0	146.0	100.0

GEAR: ELECTRO and LOCATION: 402A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	32.0	26.7	8.0	6.0	34.0	15.5	20.0	17.9	42.0	51.2	24.0	14.0	42.0	23.9	32.0	25.0
EMERALD SHINER	--	--	--	--	2.0	0.9	--	--	--	--	2.0	1.2	--	--	--	--
GHOST SHINER	--	--	2.0	1.5	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	2.0	1.8	--	--	2.0	1.2	--	--	--	--
BLUNTNOSE MINNOW	6.0	5.0	20.0	14.9	2.0	0.9	10.0	8.9	4.0	4.9	86.0	50.0	76.0	43.2	52.0	40.6
RIVER CARPSUCKER	--	--	8.0	6.0	2.0	0.9	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	2.0	1.7	6.0	4.5	8.0	3.6	6.0	5.4	4.0	4.9	2.0	1.2	2.0	1.1	2.0	1.6
SILVER REDHORSE	--	--	2.0	1.5	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	2.0	2.4	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.6
CHANNEL CATFISH	2.0	1.7	4.0	3.0	2.0	0.9	2.0	1.8	--	--	2.0	1.2	--	--	--	--
GREEN SUNFISH	20.0	16.7	32.0	23.9	18.0	8.2	10.0	8.9	--	--	6.0	3.5	10.0	5.7	--	--
PUMPKINSEED	6.0	5.0	--	--	18.0	8.2	4.0	3.6	2.0	2.4	6.0	3.5	2.0	1.1	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	2.0	0.9	--	--	--	--	--	--	--	--	--	--
BLUEGILL	36.0	30.0	20.0	14.9	94.0	42.7	44.0	39.3	20.0	24.4	24.0	14.0	26.0	14.8	28.0	21.9
Lepomis HYBRID	6.0	5.0	6.0	4.5	10.0	4.5	2.0	1.8	2.0	2.4	2.0	1.2	2.0	1.1	2.0	1.6
LARGEMOUTH BASS	8.0	6.7	24.0	17.9	16.0	7.3	12.0	10.7	4.0	4.9	14.0	8.1	14.0	8.0	8.0	6.3
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.6
FRESHWATER DRUM	2.0	1.7	2.0	1.5	12.0	5.5	--	--	2.0	2.4	2.0	1.2	2.0	1.1	--	--
TOTAL FISH	120.0	100.0	134.0	100.0	220.0	100.0	112.0	100.0	82.0	100.0	172.0	100.0	176.0	100.0	128.0	100.0

APPENDIX B (cont.)

GEAR: ELECTRO and LOCATION: 403

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	34.0	23.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	10.0	6.8	8.0	19.0	--	--	--	--	2.0	20.0	20.0	3.6	16.0	4.8	2.0	2.3
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	4.0	0.7	2.0	0.6	12.0	14.0
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	--	40.0	7.2	18.0	5.4	10.0	11.6
SAND SHINER	--	--	--	--	--	--	--	--	--	--	4.0	0.7	--	--	--	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	2.0	0.4	--	--	--	--
BLUNTNOST MINNOW	--	--	--	--	--	--	2.0	7.1	--	--	24.0	4.3	10.0	3.0	4.0	4.7
FATHEAD MINNOW	2.0	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	2.0	1.4	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.3
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.3
SMALLMOUTH BUFFALO	10.0	6.8	2.0	4.8	--	--	--	--	--	--	--	--	2.0	0.6	--	--
CHANNEL CATFISH	34.0	23.0	4.0	9.5	--	--	--	--	--	--	4.0	0.7	4.0	1.2	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	8.0	1.4	2.0	0.6	--	--
GREEN SUNFISH	22.0	14.9	14.0	33.3	2.0	50.0	22.0	78.6	8.0	80.0	260.0	46.8	182.0	54.8	20.0	23.3
PUMPKINSEED	--	--	--	--	--	--	--	--	--	--	10.0	1.8	8.0	2.4	2.0	2.3
BLUEGILL	24.0	16.2	10.0	23.8	2.0	50.0	2.0	7.1	--	--	162.0	29.1	72.0	21.7	22.0	25.6
Lepomis HYBRID	6.0	4.1	--	--	--	--	2.0	7.1	--	--	16.0	2.9	8.0	2.4	2.0	2.3
SMALLMOUTH BASS	--	--	2.0	4.8	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	4.0	2.7	2.0	4.8	--	--	--	--	--	--	2.0	0.4	8.0	2.4	8.0	9.3
TOTAL FISH	148.0	100.0	42.0	100.0	4.0	100.0	28.0	100.0	10.0	100.0	556.0	100.0	332.0	100.0	86.0	100.0

GEAR: ELECTRO and LOCATION: 403A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	2.0	10.0	--	--	2.0	1.8	--	--	2.0	3.0	--	--	--	--	--	--
GIZZARD SHAD	8.0	40.0	4.0	2.4	8.0	7.1	20.0	47.6	20.0	30.3	2.0	8.3	6.0	21.4	2.0	1.1
BLUNTNOST MINNOW	--	--	12.0	7.3	2.0	1.8	2.0	4.8	6.0	9.1	2.0	8.3	--	--	42.0	23.6
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	7.1	--	--
QUILLBACK	--	--	--	--	2.0	1.8	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	4.0	20.0	--	--	--	--	2.0	4.8	2.0	3.0	--	--	2.0	7.1	--	--
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	2.0	8.3	--	--	--	--
CHANNEL CATFISH	--	--	2.0	1.2	8.0	7.1	--	--	--	--	4.0	16.7	2.0	7.1	2.0	1.1
GREEN SUNFISH	--	--	10.0	6.1	6.0	5.4	--	--	--	--	2.0	8.3	--	--	8.0	4.5
PUMPKINSEED	--	--	4.0	2.4	--	--	2.0	4.8	4.0	6.1	--	--	2.0	7.1	2.0	1.1
BLUEGILL	2.0	10.0	112.0	68.3	70.0	62.5	12.0	28.6	22.0	33.3	8.0	33.3	8.0	28.6	98.0	55.1
Lepomis HYBRID	--	--	6.0	3.7	--	--	--	--	--	--	2.0	8.3	--	--	4.0	2.2
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.1
LARGEMOUTH BASS	2.0	10.0	8.0	4.9	10.0	8.9	4.0	9.5	8.0	12.1	2.0	8.3	6.0	21.4	16.0	9.0
BLACK CRAPPIE	--	--	--	--	2.0	1.8	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.1
FRESHWATER DRUM	2.0	10.0	6.0	3.7	2.0	1.8	--	--	2.0	3.0	--	--	--	--	--	--
TOTAL FISH	20.0	100.0	164.0	100.0	112.0	100.0	42.0	100.0	66.0	100.0	24.0	100.0	28.0	100.0	178.0	100.0

GEAR: ELECTRO and LOCATION: 404A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	2.0	1.9	--	--	--	--	--	--	--	--	2.0	0.8	--	--	--	--
GIZZARD SHAD	14.0	13.5	12.0	7.0	--	--	--	--	8.0	16.0	10.0	3.9	2.0	3.3	2.0	2.9
EMERALD SHINER	2.0	1.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	4.0	1.6	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	2.0	4.5	--	--	6.0	2.3	4.0	6.7	2.0	2.9
BLUNTNOST MINNOW	--	--	18.0	10.5	6.0	5.5	4.0	9.1	--	--	166.0	64.3	14.0	23.3	4.0	5.7
QUILLBACK	--	--	2.0	1.2	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	--	--	2.0	1.2	6.0	5.5	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	2.0	--	3.3	--	--	CHANNEL
CATFISH	--	--	4.0	2.3	4.0	3.6	6.0	13.6	10.0	20.0	6.0	2.3	4.0	6.7	2.0	2.9 BROOK
SILVERSIDE	--	--	--	--	--	--	--	--	--	2.0	0.8	--	--	--	--	GREEN
SUNFISH	12.0	11.5	24.0	14.0	24.0	21.8	6.0	13.6	4.0	8.0	14.0	5.4	4.0	6.7	30.0	42.9
PUMPKINSEED	--	--	6.0	3.5	4.0	3.6	--	--	--	--	--	--	--	--	--	BLUEGILL
NORTHERN SUNFISH	60.0	57.7	94.0	54.7	40.0	36.4	16.0	36.4	14.0	28.0	30.0	11.6	24.0	40.0	20.0	28.6
Lepomis HYBRID	--	--	2.0	1.2	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	4.0	2.3	2.0	1.8	--	--	2.0	4.0	6.0	2.3	--	--	2.0	2.9
LARGEMOUTH BASS	2.0	1.9	--	--	2.0	1.8	--	--	--	--	--	--	2.0	3.3	--	--
FRESHWATER DRUM	8.0	7.7	2.0	1.2	20.0	18.2	10.0	22.7	12.0	24.0	12.0	4.7	2.0	3.3	8.0	11.4
	4.0	3.8	2.0	1.2	2.0	1.8	--	--	--	--	--	--	2.0	3.3	--	--
TOTAL FISH	104.0	100.0	172.0	100.0	110.0	100.0	44.0	100.0	50.0	100.0	258.0	100.0	60.0	100.0	70.0	100.0

APPENDIX B (cont.)

GEAR: ELECTRO and LOCATION: 405

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	130.0	44.2	12.0	4.2	18.0	6.9	8.0	30.8	58.0	100.0	70.0	22.4	2.0	4.5	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	2.0	0.6	--	--	--	--
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.6
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	2.0	0.6	--	--	--	--
SPOTFIN SHINER	--	--	2.0	0.7	--	--	--	--	--	--	2.0	0.6	--	--	2.0	0.6
BLUNTNOSE MINNOW	24.0	8.2	10.0	3.5	18.0	6.9	--	--	--	--	184.0	59.0	8.0	18.2	108.0	30.2
SMALLMOUTH BUFFALO	--	--	--	--	--	--	2.0	7.7	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	4.0	1.4	4.0	1.5	--	--	--	--	2.0	0.6	--	--	--	--
CHANNEL CATFISH	4.0	1.4	8.0	2.8	--	--	--	--	--	--	2.0	0.6	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	2.0	0.6	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4.0	1.1
GREEN SUNFISH	50.0	17.0	68.0	23.8	30.0	11.5	--	--	--	--	12.0	3.8	6.0	13.6	76.0	21.2
PUMPKINSEED	6.0	2.0	4.0	1.4	10.0	3.8	--	--	--	--	--	--	--	--	8.0	2.2
BLUEGILL	50.0	17.0	112.0	39.2	104.0	40.0	4.0	15.4	--	--	12.0	3.8	18.0	40.9	90.0	25.1
NORTHERN SUNFISH	2.0	0.7	18.0	6.3	6.0	2.3	--	--	--	--	4.0	1.3	2.0	4.5	32.0	8.9
Lepomis HYBRID	6.0	2.0	20.0	7.0	20.0	7.7	2.0	7.7	--	--	4.0	1.3	--	--	10.0	2.8
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	4.0	1.3	--	--	--	--
LARGEMOUTH BASS	22.0	7.5	28.0	9.8	50.0	19.2	10.0	38.5	--	--	8.0	2.6	6.0	13.6	26.0	7.3
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	2.0	0.6	2.0	4.5	--	--
TOTAL FISH	294.0	100.0	286.0	100.0	260.0	100.0	26.0	100.0	58.0	100.0	312.0	100.0	44.0	100.0	358.0	100.0

GEAR: ELECTRO and LOCATION: 408

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	32.0	12.7	26.0	7.3	38.0	25.0	10.0	7.6	8.0	18.2	20.0	15.6	14.0	8.9	42.0	16.2
GOLDEN SHINER	--	--	2.0	0.6	--	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	2.0	0.8	4.0	1.1	4.0	2.6	2.0	1.5	6.0	13.6	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.3	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	--	2.0	1.6	--	--	--	--
BLUNTNOSE MINNOW	12.0	4.8	30.0	8.4	30.0	19.7	2.0	1.5	10.0	22.7	26.0	20.3	8.0	5.1	44.0	16.9
BULLHEAD MINNOW	2.0	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	2.0	0.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACK BUFFALO	--	--	--	--	--	--	2.0	1.5	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	8.0	2.2	--	--	2.0	1.5	--	--	2.0	1.6	2.0	1.3	--	--
CHANNEL CATFISH	--	--	--	--	--	--	10.0	7.6	--	--	2.0	1.6	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	2.0	1.3	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	12.0	4.8	70.0	19.7	12.0	7.9	20.0	15.2	--	--	10.0	7.8	28.0	17.7	10.0	3.8
PUMPKINSEED	4.0	1.6	--	--	--	--	2.0	1.5	2.0	4.5	6.0	4.7	4.0	2.5	6.0	2.3
ORANGESPOTTED SUNFISH	2.0	0.8	--	--	2.0	1.3	--	--	--	--	--	--	2.0	1.3	6.0	2.3
BLUEGILL	154.0	61.1	130.0	36.5	30.0	19.7	48.0	36.4	6.0	13.6	34.0	26.6	56.0	35.4	132.0	50.8
NORTHERN SUNFISH	--	--	4.0	1.1	--	--	2.0	1.5	--	--	--	--	4.0	2.5	4.0	1.5
Lepomis HYBRID	14.0	5.6	50.0	14.0	16.0	10.5	10.0	7.6	--	--	4.0	3.1	10.0	6.3	8.0	3.1
Lepomis sp.	--	--	--	--	--	--	2.0	1.5	--	--	2.0	1.6	--	--	--	--
LARGEMOUTH BASS	16.0	6.3	30.0	8.4	18.0	11.8	20.0	15.2	12.0	27.3	16.0	12.5	24.0	15.2	6.0	2.3
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	2.0	1.6	2.0	1.3	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	2.0	1.6	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	1.3	2.0	0.8
FRESHWATER DRUM	--	--	2.0	0.6	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	252.0	100.0	356.0	100.0	152.0	100.0	132.0	100.0	44.0	100.0	128.0	100.0	158.0	100.0	260.0	100.0

APPENDIX B (cont.)

GEAR: ELECTRO and LOCATION: 412A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	2.0	1.6	--	--	--	GIZZARD	
SHAD	18.0	10.5	10.0	10.0	16.0	12.5	2.0	2.0	16.0	29.6	34.0	27.4	6.0	3.6	16.0	4.2
GOLDEN SHINER	--	--	--	--	--	--	2.0	2.0	--	--	--	--	--	--	--	--
EMERALD SHINER	2.0	1.2	--	--	--	--	--	--	2.0	3.7	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	2.0	3.7	--	--	--	--	2.0	0.5
SPOTFIN SHINER	--	--	--	--	2.0	1.6	2.0	2.0	--	--	--	--	--	--	2.0	0.5
BLUNTNOSE MINNOW	6.0	3.5	2.0	2.0	4.0	3.1	24.0	23.5	6.0	11.1	16.0	12.9	58.0	34.9	130.0	34.0
SMALLMOUTH BUFFALO	--	--	2.0	2.0	--	--	--	--	--	--	2.0	1.6	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	2.0	1.6	--	--	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	2.0	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.5
BROOK SILVERSIDE	--	--	--	--	4.0	3.1	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--	4.0	2.4	--	--
GREEN SUNFISH	8.0	4.7	6.0	6.0	6.0	4.7	2.0	2.0	--	--	--	--	2.0	1.2	6.0	1.6
PUMPKINSEED	2.0	1.2	--	--	4.0	3.1	2.0	2.0	2.0	3.7	4.0	3.2	2.0	1.2	8.0	2.1
BLUEGILL	116.0	67.4	78.0	78.0	54.0	42.2	44.0	43.1	6.0	11.1	42.0	33.9	86.0	51.8	184.0	48.2
NORTHERN SUNFISH	--	--	--	--	2.0	1.6	4.0	3.9	--	--	2.0	1.6	2.0	1.2	8.0	2.1
Lepomis HYBRID	--	--	--	--	--	--	2.0	2.0	--	--	--	--	2.0	1.2	2.0	0.5
SMALLMOUTH BASS	--	--	--	--	4.0	3.1	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	18.0	10.5	2.0	2.0	30.0	23.4	18.0	17.6	20.0	37.0	22.0	17.7	4.0	2.4	22.0	5.8
TOTAL FISH	172.0	100.0	100.0	100.0	128.0	100.0	102.0	100.0	54.0	100.0	124.0	100.0	166.0	100.0	382.0	100.0

GEAR: ELECTRO and LOCATION: 414

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	6.0	1.1	6.0	1.2	6.0	2.1	14.0	5.1	22.0	19.6	28.0	14.4	38.0	7.1	66.0	16.8
GOLDEN SHINER	--	--	2.0	0.4	--	--	--	--	--	--	--	--	--	--	--	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.4	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.4	4.0	1.0
SPOTFIN SHINER	--	--	6.0	1.2	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	2.0	0.4	2.0	0.4	--	--	--	--	--	--	2.0	1.0	8.0	1.5	--	--
BULLHEAD MINNOW	--	--	2.0	0.4	--	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	0.4	4.0	1.0
SMALLMOUTH BUFFALO	--	--	4.0	0.8	--	--	--	--	--	--	--	--	4.0	0.7	--	--
YELLOW BULLHEAD	4.0	0.8	2.0	0.4	4.0	1.4	--	--	--	--	--	--	2.0	0.4	2.0	0.5
CHANNEL CATFISH	4.0	0.8	--	--	2.0	0.7	--	--	--	--	2.0	1.0	--	--	2.0	0.5
BLACKSTRIPE TOPMINNOW	--	--	2.0	0.4	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	30.0	5.6	24.0	4.8	12.0	4.2	16.0	5.8	4.0	3.6	8.0	4.1	4.0	0.7	4.0	1.0
PUMPKINSEED	8.0	1.5	8.0	1.6	--	--	6.0	2.2	--	--	--	--	--	--	6.0	1.5
ORANGESPOTTED SUNFISH	28.0	5.3	24.0	4.8	2.0	0.7	--	--	2.0	1.8	2.0	1.0	18.0	3.4	32.0	8.2
BLUEGILL	424.0	79.7	402.0	79.8	226.0	79.6	212.0	77.4	76.0	67.9	116.0	59.8	368.0	68.9	216.0	55.1
NORTHERN SUNFISH	--	--	--	--	--	--	4.0	1.5	--	--	--	--	--	--	--	--
Lepomis HYBRID	10.0	1.9	4.0	0.8	2.0	0.7	2.0	0.7	--	--	--	--	--	--	2.0	0.5
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	12.0	6.2	26.0	4.9	24.0	6.1
LARGEMOUTH BASS	16.0	3.0	16.0	3.2	30.0	10.6	20.0	7.3	6.0	5.4	22.0	11.3	60.0	11.2	30.0	7.7
FRESHWATER DRUM	--	--	--	--	--	--	--	--	2.0	1.8	2.0	1.0	--	--	--	--
TOTAL FISH	532.0	100.0	504.0	100.0	284.0	100.0	274.0	100.0	112.0	100.0	194.0	100.0	534.0	100.0	392.0	100.0

APPENDIX B (cont.)

GEAR: ELECTRO and LOCATION: 418

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTTED GAR	--	--	--	--	--	--	2.0	1.4	--	--	--	--	--	--	--	GIZZARD
SHAD	42.0	11.9	26.0	4.3	64.0	13.9	28.0	20.3	14.0	14.6	28.0	17.1	10.0	15.6	22.0	21.2
GOLDEN SHINER	--	--	--	--	--	--	2.0	1.4	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	3.1	--	--
SPOTFIN SHINER	--	--	4.0	0.7	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	28.0	7.9	--	--	34.0	7.4	8.0	5.8	8.0	8.3	32.0	19.5	4.0	6.3	6.0	5.8
BULLHEAD MINNOW	4.0	1.1	2.0	0.3	2.0	0.4	--	--	--	--	6.0	3.7	6.0	9.4	2.0	1.9
QUILLBACK	--	--	--	--	--	--	2.0	1.4	--	--	--	--	--	--	--	--
SMALLMOUTH BUFFALO	4.0	1.1	2.0	0.3	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	--	2.0	1.2	--	--	--	--
SHORTHEAD REDHORSE	--	--	2.0	0.3	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	2.0	0.4	2.0	1.4	--	--	--	--	--	--	--	--
CHANNEL CATFISH	--	--	2.0	0.3	2.0	0.4	2.0	1.4	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	2.0	0.3	--	--	--	--	--	--	4.0	2.4	2.0	3.1	--	--
GREEN SUNFISH	18.0	5.1	90.0	15.0	142.0	30.9	8.0	5.8	38.0	39.6	6.0	3.7	2.0	3.1	12.0	11.5
PUMPKINSEED	2.0	0.6	2.0	0.3	--	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	2.0	0.6	2.0	0.3	2.0	0.4	2.0	1.4	--	--	--	--	4.0	6.3	--	--
BLUEGILL	194.0	54.8	422.0	70.1	168.0	36.5	68.0	49.3	18.0	18.8	62.0	37.8	28.0	43.8	54.0	51.9
NORTHERN SUNFISH	10.0	2.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis HYBRID	4.0	1.1	14.0	2.3	6.0	1.3	--	--	6.0	6.3	--	--	--	--	2.0	1.9
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	10.0	6.1	--	--	2.0	1.9
LARGEMOUTH BASS	46.0	13.0	22.0	3.7	36.0	7.8	14.0	10.1	6.0	6.3	10.0	6.1	--	--	2.0	1.9
LOGPERCH	--	--	--	--	--	--	--	--	6.0	6.3	4.0	2.4	6.0	9.4	--	--
FRESHWATER DRUM	--	--	10.0	1.7	2.0	0.4	--	--	--	--	--	--	--	--	2.0	1.9
TOTAL FISH	354.0	100.0	602.0	100.0	460.0	100.0	138.0	100.0	96.0	100.0	164.0	100.0	64.0	100.0	104.0	100.0

GEAR: ELECTRO and LOCATION: 419A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	8.0	8.3	6.0	6.0	10.0	11.4	8.0	10.0	6.0	23.1	10.0	6.3	10.0	11.6	4.0	33.3
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--	--	2.0	2.3	--	--
SPOTFIN SHINER	--	--	4.0	4.0	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	2.0	2.1	--	--	8.0	9.1	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	2.0	2.5	--	--	2.0	1.3	--	--	--	--
SMALLMOUTH BUFFALO	--	--	--	--	2.0	2.3	--	--	--	--	10.0	6.3	2.0	2.3	--	--
GOLDEN REDHORSE	--	--	--	--	2.0	2.3	2.0	2.5	--	--	--	--	--	--	2.0	16.7
CHANNEL CATFISH	2.0	2.1	--	--	--	--	--	--	--	--	14.0	8.9	2.0	2.3	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	2.0	7.7	--	--	--	--	--	--
ROCK BASS	2.0	2.1	--	--	--	--	--	--	--	--	--	--	2.0	2.3	--	--
GREEN SUNFISH	6.0	6.3	16.0	16.0	4.0	4.5	6.0	7.5	4.0	15.4	20.0	12.7	14.0	16.3	--	--
PUMPKINSEED	2.0	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	54.0	56.3	62.0	62.0	40.0	45.5	46.0	57.5	14.0	53.8	70.0	44.3	24.0	27.9	4.0	33.3
NORTHERN SUNFISH	--	--	--	--	4.0	4.5	--	--	--	--	2.0	1.3	6.0	7.0	--	--
Lepomis HYBRID	2.0	2.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	2.0	2.0	2.0	2.3	--	--	--	--	2.0	1.3	--	--	--	--
LARGEMOUTH BASS	18.0	18.8	10.0	10.0	16.0	18.2	16.0	20.0	--	--	20.0	12.7	22.0	25.6	2.0	16.7
LOGPERCH	--	--	--	--	--	--	--	--	--	--	2.0	1.3	2.0	2.3	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	6.0	3.8	--	--	--	--
TOTAL FISH	96.0	100.0	100.0	100.0	88.0	100.0	80.0	100.0	26.0	100.0	158.0	100.0	86.0	100.0	12.0	100.0

APPENDIX B (cont.)

2012 UPPER ILLINOIS WATERWAY FISH STUDY -- CPE AND COMPOSITION SUMMARIES FOR EACH SURVEY (SEINE=No./Haul)

GEAR: SEINE and LOCATION: 302A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	1.0	50.0	--	--	--	--
PUMPKINSEED	--	--	--	--	--	--	--	--	--	--	1.0	50.0	--	--	--	--
BLUEGILL	1.0	100.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	1.0	100.0	0.0	--	0.0	--	0.0	--	0.0	--	2.0	100.0	0.0	--	0.0	--

GEAR: SEINE and LOCATION: 304

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
EMERALD SHINER	3.0	50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	3.9
BLUNTNOSSE MINNOW	--	--	--	--	3.0	25.0	51.0	70.8	--	--	--	--	2.0	4.3	27.0	52.9
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	1.0	100.0	--	--	1.0	2.0
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	6.0	12.8	3.0	5.9
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	1.0	1.4	--	--	--	--	37.0	78.7	18.0	35.3
PUMPKINSEED	3.0	50.0	2.0	50.0	3.0	25.0	13.0	18.1	--	--	--	--	--	--	--	--
BLUEGILL	--	--	1.0	25.0	--	--	1.0	1.4	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	--	--	--	1.0	1.4	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	--	--	1.0	8.3	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	3.0	25.0	4.0	5.6	--	--	--	--	2.0	4.3	--	--
BLACK CRAPPIE	--	--	--	--	--	--	1.0	1.4	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	2.0	16.7	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	1.0	25.0	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	6.0	100.0	4.0	100.0	12.0	100.0	72.0	100.0	0.0	--	1.0	100.0	47.0	100.0	51.0	100.0

GEAR: SEINE and LOCATION: 305

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTFIN SHINER	--	--	1.0	20.0	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSSE MINNOW	1.0	8.3	--	--	10.0	83.3	--	--	2.0	50.0	14.0	93.3	1.0	33.3	--	--
WHITE SUCKER	--	--	2.0	40.0	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	1.0	20.0	--	--	1.0	6.7	--	--	--	--
TADPOLE MADTOM	2.0	16.7	1.0	20.0	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	2.0	16.7	--	--	--	--	--	--	2.0	66.7	1.0	100.0
BLACKSTRIPE TOPMINNOW	3.0	25.0	--	--	--	--	1.0	20.0	2.0	50.0	--	--	--	--	--	--
PUMPKINSEED	4.0	33.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	2.0	16.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	1.0	20.0	--	--	2.0	40.0	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	1.0	20.0	--	--	--	--	--	--	--	--
TOTAL FISH	12.0	100.0	5.0	100.0	12.0	100.0	5.0	100.0	4.0	100.0	15.0	100.0	3.0	100.0	1.0	100.0

GEAR: SEINE and LOCATION: 306

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
BLUNTNOSSE MINNOW	--	--	--	--	36.0	78.3	5.0	62.5	40.0	87.0	15.0	78.9	5.0	83.3	7.0	100.0
WHITE SUCKER	--	--	--	--	2.0	4.3	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	--	--	--	--	1.0	2.2	--	--	--	--	--	--	1.0	16.7	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	1.0	12.5	3.0	6.5	3.0	15.8	--	--	--	--
PUMPKINSEED	--	--	--	--	1.0	2.2	1.0	12.5	2.0	4.3	1.0	5.3	--	--	--	--
BLUEGILL	--	--	--	--	2.0	4.3	1.0	12.5	1.0	2.2	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	4.0	8.7	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	0.0	--	0.0	--	46.0	100.0	8.0	100.0	46.0	100.0	19.0	100.0	6.0	100.0	7.0	100.0

APPENDIX B (cont.)

GEAR: SEINE and LOCATION: 307

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.7
BLUNTNOSE MINNOW	--	--	--	--	--	--	6.0	37.5	4.0	100.0	36.0	61.0	39.0	95.1	58.0	98.3
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	1.0	1.7	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	2.0	3.4	--	--	--	--
GREEN SUNFISH	--	--	--	--	--	--	--	--	--	--	4.0	6.8	--	--	--	--
PUMPKINSEED	--	--	--	--	--	--	2.0	12.5	--	--	1.0	1.7	1.0	2.4	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	--	1.0	1.7	--	--	--	--
BLUEGILL	--	--	1.0	100.0	1.0	20.0	6.0	37.5	--	--	9.0	15.3	1.0	2.4	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	5.0	8.5	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	4.0	80.0	2.0	12.5	--	--	--	--	--	--	--	--
TOTAL FISH	0.0	--	1.0	100.0	5.0	100.0	16.0	100.0	4.0	100.0	59.0	100.0	41.0	100.0	59.0	100.0

GEAR: SEINE and LOCATION: 402

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
STRIPED SHINER	--	--	--	--	--	--	--	--	1.0	3.2	--	--	--	--	1.0	2.2
ROSYFACE SHINER	--	--	--	--	--	--	--	--	8.0	25.8	--	--	--	--	--	--
SPOTFIN SHINER	1.0	10.0	--	--	--	--	--	--	3.0	9.7	--	--	2.0	11.1	39.0	84.8
SAND SHINER	--	--	--	--	--	--	--	--	1.0	3.2	--	--	1.0	5.6	--	--
BLUNTNOSE MINNOW	--	--	--	--	--	--	--	--	18.0	58.1	1.0	100.0	12.0	66.7	5.0	10.9
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	2.2
BLACKSTRIPE TOPMINNOW	9.0	90.0	--	--	2.0	100.0	--	--	--	--	--	--	1.0	5.6	--	--
LARGEMOUTH BASS	--	--	--	--	--	--	--	--	--	--	--	--	2.0	11.1	--	--
TOTAL FISH	10.0	100.0	0.0	--	2.0	100.0	0.0	--	31.0	100.0	1.0	100.0	18.0	100.0	46.0	100.0

GEAR: SEINE and LOCATION: 403A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
GIZZARD SHAD	1.0	50.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	1.0	50.0	--	--	--	--	--	--	7.0	100.0	6.0	46.2	--	--	--	--
SAND SHINER	--	--	--	--	1.0	0.8	1.0	0.5	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	--	22.0	81.5	109.0	90.1	178.0	96.7	--	--	--	--	2.0	40.0	--	--
WHITE SUCKER	--	--	--	--	1.0	0.8	--	--	--	--	--	--	--	--	--	--
Moxostoma sp.	--	--	1.0	3.7	--	--	--	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	3.0	23.1	--	--	2.0	66.7
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	3.0	23.1	2.0	40.0	1.0	33.3
PUMPKINSEED	--	--	3.0	11.1	2.0	1.7	1.0	0.5	--	--	--	--	--	--	--	--
BLUEGILL	--	--	1.0	3.7	3.0	2.5	2.0	1.1	--	--	1.0	7.7	1.0	20.0	--	--
Lepomis sp.	--	--	--	--	1.0	0.8	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	4.0	3.3	2.0	1.1	--	--	--	--	--	--	--	--
TOTAL FISH	2.0	100.0	27.0	100.0	121.0	100.0	184.0	100.0	7.0	100.0	13.0	100.0	5.0	100.0	3.0	100.0

GEAR: SEINE and LOCATION: 404A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
Dorosoma sp.	--	--	--	--	1.0	16.7	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	3.0	2.3	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	1.0	1.1	--	--	13.0	19.4	--	--
SAND SHINER	--	--	--	--	1.0	16.7	--	--	1.0	1.1	1.0	0.5	1.0	1.5	--	--
BLUNTNOSE MINNOW	1.0	16.7	2.0	25.0	2.0	33.3	122.0	93.8	86.0	93.5	180.0	96.8	50.0	74.6	--	--
BLACKSTRIPE TOPMINNOW	--	--	1.0	12.5	--	--	--	--	--	--	--	--	1.0	1.5	1.0	100.0
ROCK BASS	--	--	--	--	--	--	1.0	0.8	--	--	1.0	0.5	--	--	--	--
PUMPKINSEED	--	--	1.0	12.5	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	5.0	83.3	4.0	50.0	2.0	33.3	3.0	2.3	3.0	3.3	1.0	0.5	1.0	1.5	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	1.0	1.1	3.0	1.6	1.0	1.5	--	--
LARGEMOUTH BASS	--	--	--	--	--	--	1.0	0.8	--	--	--	--	--	--	--	--
TOTAL FISH	6.0	100.0	8.0	100.0	6.0	100.0	130.0	100.0	92.0	100.0	186.0	100.0	67.0	100.0	1.0	100.0

APPENDIX B (cont.)

GEAR: SEINE and LOCATION: 405

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTFIN SHINER	1.0	12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAND SHINER	1.0	12.5	3.0	60.0	1.0	2.8	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	1.0	12.5	1.0	20.0	11.0	30.6	--	--	109.0	95.6	64.0	87.7	--	--	--	--
FATHEAD MINNOW	--	--	1.0	20.0	4.0	11.1	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	1.0	0.9	--	--	--	--	--	--
BLUEGILL	4.0	50.0	--	--	--	--	--	--	2.0	1.8	--	--	--	--	--	--
NORTHERN SUNFISH	--	--	--	--	--	--	1.0	100.0	--	--	--	--	1.0	100.0	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	2.0	1.8	7.0	9.6	--	--	--	--
SMALLMOUTH BASS	1.0	12.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	--	--	16.0	44.4	--	--	--	--	2.0	2.7	--	--	--	--
JOHNNY DARTER	--	--	--	--	1.0	2.8	--	--	--	--	--	--	--	--	--	--
ORANGETHROAT DARTER	--	--	--	--	3.0	8.3	--	--	--	--	--	--	--	--	--	--
TOTAL FISH	8.0	100.0	5.0	100.0	36.0	100.0	1.0	100.0	114.0	100.0	73.0	100.0	1.0	100.0	0.0	--

GEAR: SEINE and LOCATION: 408

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	1.0	2.1	--	--	--	--	--	--	--	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	1.0	1.0	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	1.0	2.1	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	1.0	2.1	7.0	6.7	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	8.0	53.3	23.0	65.7	34.0	70.8	38.0	36.2	--	--	5.0	6.5	40.0	31.3	1.0	14.3
BLACKSTRIPE TOPMINNOW	--	--	--	--	1.0	2.1	10.0	9.5	5.0	15.2	20.0	26.0	3.0	2.3	1.0	14.3
PUMPKINSEED	1.0	6.7	3.0	8.6	--	--	--	--	1.0	3.0	--	--	1.0	0.8	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	2.0	4.2	1.0	1.0	2.0	6.1	--	--	--	--	--	--
BLUEGILL	6.0	40.0	6.0	17.1	--	--	5.0	4.8	23.0	69.7	21.0	27.3	78.0	60.9	4.0	57.1
NORTHERN SUNFISH	--	--	1.0	2.9	--	--	--	--	--	--	--	--	--	--	1.0	14.3
Lepomis HYBRID	--	--	2.0	5.7	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	--	--	--	43.0	41.0	2.0	6.1	24.0	31.2	4.0	3.1	--	--
LARGEMOUTH BASS	--	--	--	--	7.0	14.6	--	--	--	--	1.0	1.3	1.0	0.8	--	--
BLACKSIDE DARTER	--	--	--	--	1.0	2.1	--	--	--	--	6.0	7.8	1.0	0.8	--	--
TOTAL FISH	15.0	100.0	35.0	100.0	48.0	100.0	105.0	100.0	33.0	100.0	77.0	100.0	128.0	100.0	7.0	100.0

GEAR: SEINE and LOCATION: 412A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.0	20.0
BLUNTNOSE MINNOW	2.0	15.4	--	--	10.0	90.9	77.0	100.0	--	--	5.0	83.3	--	--	2.0	40.0
GREEN SUNFISH	1.0	7.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	10.0	76.9	19.0	73.1	1.0	9.1	--	--	7.0	63.6	1.0	16.7	22.0	95.7	2.0	40.0
Lepomis sp.	--	--	--	--	--	--	--	--	3.0	27.3	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	7.0	26.9	--	--	--	--	1.0	9.1	--	--	1.0	4.3	--	--
TOTAL FISH	13.0	100.0	26.0	100.0	11.0	100.0	77.0	100.0	11.0	100.0	6.0	100.0	23.0	100.0	5.0	100.0

APPENDIX B (cont.)

GEAR: SEINE and LOCATION: 414

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
LONGNOSE GAR	--	--	--	--	1.0	4.2	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	--	--	--	--	--	--	--	--	--	--	--	1.0	1.4	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	1.0	0.5	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	1.0	0.5	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	5.0	2.3	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	1.0	0.5	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	1.0	0.5	--	--	--	--	2.0	2.7	--	--
SAND SHINER	--	--	--	--	--	--	1.0	0.5	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	2.0	3.3	--	--	--	--	191.0	88.8	--	--	107.0	65.2	4.0	5.5	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	4.0	1.9	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	1.0	0.6	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	4.0	3.7	1.0	4.2	--	--	--	--	2.0	1.2	--	--	--	--
GREEN SUNFISH	--	--	1.0	0.9	--	--	1.0	0.5	--	--	--	--	--	--	--	--
PUMPKINSEED	6.0	10.0	2.0	1.9	--	--	--	--	--	--	3.0	1.8	2.0	2.7	--	--
ORANGESPOTTED SUNFISH	1.0	1.7	32.0	29.9	--	--	--	--	--	--	--	--	--	--	--	--
BLUEGILL	47.0	78.3	60.0	56.1	--	--	1.0	0.5	61.0	75.3	40.0	24.4	50.0	68.5	13.0	86.7
NORTHERN SUNFISH	2.0	3.3	8.0	7.5	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis HYBRID	1.0	1.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	1.0	1.7	--	--	--	--	3.0	1.4	18.0	22.2	7.0	4.3	12.0	16.4	--	--
LARGEMOUTH BASS	--	--	--	--	22.0	91.7	5.0	2.3	2.0	2.5	4.0	2.4	2.0	2.7	2.0	13.3
TOTAL FISH	60.0	100.0	107.0	100.0	24.0	100.0	215.0	100.0	81.0	100.0	164.0	100.0	73.0	100.0	15.0	100.0

GEAR: SEINE and LOCATION: 418

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
SPOTFIN SHINER	2.0	22.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	2.0	22.2	--	--	--	--	37.0	78.7	--	--	5.0	8.1	--	--	1.0	3.6
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	4.0	6.5	--	--	--	--
TADPOLE MADTOM	1.0	11.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	1.0	11.1	--	--	--	--	--	--	--	--	1.0	1.6	1.0	5.3	--	--
BROOK SILVERSIDE	--	--	--	--	17.0	70.8	6.0	12.8	--	--	--	--	--	--	--	--
GREEN SUNFISH	1.0	11.1	1.0	20.0	--	--	--	--	--	--	--	--	--	--	1.0	3.6
PUMPKINSEED	--	--	--	--	--	--	--	--	--	--	1.0	1.6	1.0	5.3	1.0	3.6
BLUEGILL	2.0	22.2	4.0	80.0	2.0	8.3	4.0	8.5	8.0	21.1	17.0	27.4	10.0	52.6	23.0	82.1
Lepomis sp.	--	--	--	--	5.0	20.8	--	--	30.0	78.9	34.0	54.8	6.0	31.6	1.0	3.6
LARGEMOUTH BASS	--	--	--	--	--	--	--	--	--	--	--	--	1.0	5.3	1.0	3.6
TOTAL FISH	9.0	100.0	5.0	100.0	24.0	100.0	47.0	100.0	38.0	100.0	62.0	100.0	19.0	100.0	28.0	100.0

GEAR: SEINE and LOCATION: 419A

SPECIES	20-21 MAY		4-6 JUN		1-3 JUL		15-17 JUL		14-16 AUG		26-28 AUG		9-11 SEP		23-25 SEP	
	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%	CPE	%
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	1.0	3.8	--	--	--	--	--	--
SPOTFIN SHINER	1.0	3.8	--	--	1.0	5.0	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	14.0	53.8	8.0	32.0	16.0	80.0	--	--	12.0	46.2	--	--	3.0	100.0	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	8.0	30.8	--	--	--	--	--	--
GREEN SUNFISH	--	--	--	--	--	--	1.0	33.3	--	--	--	--	--	--	--	--
BLUEGILL	10.0	38.5	12.0	48.0	--	--	2.0	66.7	3.0	11.5	1.0	33.3	--	--	--	--
NORTHERN SUNFISH	1.0	3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	--	2.0	10.0	--	--	2.0	7.7	--	--	--	--	--	--
LARGEMOUTH BASS	--	--	5.0	20.0	1.0	5.0	--	--	--	--	2.0	66.7	--	--	--	--
TOTAL FISH	26.0	100.0	25.0	100.0	20.0	100.0	3.0	100.0	26.0	100.0	3.0	100.0	3.0	100.0	0.0	--

APPENDIX C

RAW DATA LISTING

UPPER ILLINOIS WATERWAY -- 2013

APPENDIX C - RAW DATA LISTING - UPPER ILLINOIS WATERWAY - 2013

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: DESPLAINES LOCATION: 402 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 21MAY13:10:05 END DATE AND TIME: 21MAY13:10:10					
SPOTFIN SHINER	.	.	.	1	2
BLACKSTRIPE TOPMINNOW	.	.	.	9	8
SITE: DESPLAINES LOCATION: 403A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 21MAY13:09:39 END DATE AND TIME: 21MAY13:09:44					
GIZZARD SHAD	.	109	12	.	.
SPOTFIN SHINER	.	.	.	1	1
SITE: DESPLAINES LOCATION: 404A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 21MAY13:09:21 END DATE AND TIME: 21MAY13:09:26					
BLUNTNOSE MINNOW	.	.	.	1	1
BLUEGILL	.	138	61	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	72	6	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	76	8	.	.
SITE: DESPLAINES LOCATION: 405 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 21MAY13:09:08 END DATE AND TIME: 21MAY13:09:14					
COMMON CARP	.	.	.	1	2000
SPOTFIN SHINER	.	.	.	1	3
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	1	2
BLUEGILL	.	59	4	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	86	13	.	.
SMALLMOUTH BASS	.	99	11	.	.
SITE: DESPLAINES LOCATION: 408 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 21MAY13:08:50 END DATE AND TIME: 21MAY13:08:57					
BLUNTNOSE MINNOW	.	.	.	8	16
PUMPKINSEED	.	62	5	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	52	2	.	.
BLUEGILL	.	38	1	.	.
SITE: DESPLAINES LOCATION: 412A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 22MAY13:14:40 END DATE AND TIME: 22MAY13:14:47					
BLUNTNOSE MINNOW	.	.	.	2	5
GREEN SUNFISH	.	109	33	.	.
BLUEGILL	.	88	12	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	53	4	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	43	2	.	.
BLUEGILL	.	41	1	.	.
SITE: DESPLAINES LOCATION: 414 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 22MAY13:09:30 END DATE AND TIME: 22MAY13:09:36					
BLUNTNOSE MINNOW	.	.	.	2	8
PUMPKINSEED	.	70	7	.	.
PUMPKINSEED	.	70	7	.	.
PUMPKINSEED	.	65	6	.	.
PUMPKINSEED	.	63	6	.	.
PUMPKINSEED	.	68	6	.	.
PUMPKINSEED	.	50	3	.	.
ORANGESPOTTED SUNFISH	.	78	10	.	.
BLUEGILL	.	107	23	.	.
BLUEGILL	.	59	2	.	.
BLUEGILL	.	42	1	.	.
BLUEGILL	.	43	2	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	78	10	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	49	2	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	45	2	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	45	2	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	100	20	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	70	8	.	.
BLUEGILL	.	.	.	17	59
NORTHERN SUNFISH	.	94	20	.	.
NORTHERN SUNFISH	.	52	3	.	.
Lepomis HYBRID	.	.	.	1	25
Lepomis sp.	.	29	1	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: SEINE MESOHABITAT: .
 START DATE AND TIME: 22MAY13:11:30 END DATE AND TIME: 22MAY13:11:36

SPOTFIN SHINER	.	.	.	2	5
BLUNTNNOSE MINNOW	.	.	.	2	3
TADPOLE MADTOM	.	62	4	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	1	1
GREEN SUNFISH	.	77	10	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	63	5	.	.

SITE: DESPLAINES LOCATION: 419A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 22MAY13:14:23 END DATE AND TIME: 22MAY13:14:29

SPOTFIN SHINER	.	.	.	1	1
BLUNTNNOSE MINNOW	.	.	.	14	33
BLUEGILL	.	128	46	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	42	1	.	.
BLUEGILL	.	47	2	.	.
BLUEGILL	.	42	1	.	.
NORTHERN SUNFISH	.	63	5	.	.

SITE: DESPLAINES LOCATION: 402 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 21MAY13:10:21 END DATE AND TIME: 21MAY13:10:48

LONGNOSE GAR	.	588	550	.	.
LONGNOSE GAR	.	.	.	1	3000
GIZZARD SHAD	.	310	270	.	.
GIZZARD SHAD	.	251	160	.	.
GIZZARD SHAD	.	291	220	.	.
GIZZARD SHAD	.	248	160	.	.
GIZZARD SHAD	.	320	345	.	.
GIZZARD SHAD	.	306	225	.	.
GIZZARD SHAD	.	312	340	.	.
GIZZARD SHAD	.	266	200	.	.
GIZZARD SHAD	.	352	400	.	.
GOLDEN SHINER	.	.	.	1	8
EMERALD SHINER	.	.	.	3	7
SPOTFIN SHINER	.	.	.	1	4
RIVER CARPSUCKER	.	449	1100	.	.
SMALLMOUTH BUFFALO	.	448	1420	.	.
YELLOW BULLHEAD	.	94	12	.	.
CHANNEL CATFISH	.	475	1230	.	.
CHANNEL CATFISH	.	502	1540	.	.
WHITE BASS	.	310	360	.	.
WHITE BASS	.	308	370	.	.
WHITE BASS	.	291	350	.	.
WHITE BASS	.	223	130	.	.
ROCK BASS	.	162	82	.	.
ROCK BASS	.	72	8	.	.
GREEN SUNFISH	.	86	14	.	.
GREEN SUNFISH	.	104	24	.	.
GREEN SUNFISH	.	99	22	.	.
GREEN SUNFISH	.	79	12	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	93	19	.	.
GREEN SUNFISH	.	82	11	.	.
BLUEGILL	.	155	86	.	.
BLUEGILL	.	152	88	.	.
BLUEGILL	.	128	40	.	.
BLUEGILL	.	95	19	.	.
BLUEGILL	.	120	33	.	.
BLUEGILL	.	122	37	.	.
BLUEGILL	.	95	17	.	.
BLUEGILL	.	98	17	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	97	15	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	81	9	.	.
Lepomis HYBRID	.	.	.	2	15
Lepomis HYBRID	.	.	.	1	6
SMALLMOUTH BASS	.	312	320	.	.
SMALLMOUTH BASS	.	107	11	.	.
SMALLMOUTH BASS	.	152	47	.	.
LARGEMOUTH BASS	.	267	265	.	.
LARGEMOUTH BASS	.	232	170	.	.
LARGEMOUTH BASS	.	288	390	.	.
LARGEMOUTH BASS	.	150	38	.	.
FRESHWATER DRUM	.	391	870	.	.
FRESHWATER DRUM	.	521	2490	.	.
FRESHWATER DRUM	.	481	1390	.	.

SITE: DESPLAINES LOCATION: 402A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 21MAY13:11:21 END DATE AND TIME: 21MAY13:11:58

GIZZARD SHAD	.	327	330	.	.
GIZZARD SHAD	.	307	265	.	.
GIZZARD SHAD	.	331	370	.	.
GIZZARD SHAD	.	325	370	.	.
GIZZARD SHAD	.	316	310	.	.
GIZZARD SHAD	.	290	220	.	.
GIZZARD SHAD	.	303	235	.	.
GIZZARD SHAD	.	186	66	.	.
GIZZARD SHAD	.	340	390	.	.
GIZZARD SHAD	.	297	220	.	.
GIZZARD SHAD	.	288	250	.	.
GIZZARD SHAD	.	288	200	.	.
GIZZARD SHAD	.	259	135	.	.
GIZZARD SHAD	.	276	170	.	.
GIZZARD SHAD	.	279	170	.	.
GIZZARD SHAD	.	320	275	.	.
BLUNTNOST MINNOW	.	.	.	3	13
SMALLMOUTH BUFFALO	.	382	870	.	.
CHANNEL CATFISH	.	514	1520	.	.
GREEN SUNFISH	.	127	51	.	.
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	118	40	.	.
GREEN SUNFISH	.	114	40	.	.
GREEN SUNFISH	.	93	20	.	.
GREEN SUNFISH	.	99	24	.	.
GREEN SUNFISH	.	105	28	.	.
GREEN SUNFISH	.	112	33	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	68	8	.	.
PUMPKINSEED	.	122	33	.	.
PUMPKINSEED	.	73	8	.	.
PUMPKINSEED	.	62	5	.	.
BLUEGILL	.	147	76	.	.
BLUEGILL	.	145	70	.	.
BLUEGILL	.	138	54	.	.
BLUEGILL	.	137	55	.	.
BLUEGILL	.	137	49	.	.
BLUEGILL	.	101	18	.	.
BLUEGILL	.	113	32	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	49	2	.	.
Lepomis HYBRID	.	.	.	1	90
Lepomis HYBRID	.	.	.	2	19
LARGEMOUTH BASS	.	302	415	.	.
LARGEMOUTH BASS	.	270	185	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

LARGEMOUTH BASS	.	187	79	.	.
LARGEMOUTH BASS	.	256	240	.	.
FRESHWATER DRUM	.	455	1250	.	.
SITE: DESPLAINES LOCATION: 403		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 21MAY13:12:27		END DATE AND TIME: 21MAY13:13:02			
LONGNOSE GAR	.	685	760	.	.
LONGNOSE GAR	.	660	610	.	.
LONGNOSE GAR	.	752	1010	.	.
LONGNOSE GAR	.	652	780	.	.
LONGNOSE GAR	.	780	1210	.	.
GIZZARD SHAD	.	325	395	.	.
GIZZARD SHAD	.	342	340	.	.
GIZZARD SHAD	.	319	290	.	.
THREADFIN SHAD	.	115	14	.	.
COMMON CARP	.	452	1280	.	.
EMERALD SHINER	.	.	.	3	8
BLUNTNOSE MINNOW	.	.	.	1	1
SMALLMOUTH BUFFALO	.	350	680	.	.
SMALLMOUTH BUFFALO	.	568	3250	.	.
SMALLMOUTH BUFFALO	.	472	1430	.	.
CHANNEL CATFISH	.	505	1390	.	.
CHANNEL CATFISH	.	524	1560	.	.
CHANNEL CATFISH	.	558	2230	.	.
CHANNEL CATFISH	.	565	2110	.	.
CHANNEL CATFISH	.	570	2760	.	.
CHANNEL CATFISH	.	425	810	.	.
CHANNEL CATFISH	.	512	1500	.	.
CHANNEL CATFISH	.	572	2570	.	.
CHANNEL CATFISH	.	500	1370	.	.
CHANNEL CATFISH	.	556	2190	.	.
CHANNEL CATFISH	.	477	1230	.	.
FLATHEAD CATFISH	.	605	1880	.	.
FLATHEAD CATFISH	.	635	3010	.	.
GREEN SUNFISH	.	85	14	.	.
GREEN SUNFISH	.	58	4	.	.
PUMPKINSEED	.	79	11	.	.
PUMPKINSEED	.	63	5	.	.
PUMPKINSEED	.	58	3	.	.
BLUEGILL	.	156	89	.	.
BLUEGILL	.	162	95	.	.
BLUEGILL	.	138	56	.	.
BLUEGILL	.	166	102	.	.
BLUEGILL	.	153	64	.	.
BLUEGILL	.	145	62	.	.
BLUEGILL	.	120	35	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	87	13	.	.
BLUEGILL	.	117	37	.	.
BLUEGILL	.	95	15	.	.
Lepomis HYBRID	.	.	.	1	48
Lepomis HYBRID	.	.	.	3	73
Lepomis sp.	.	44	2	.	.
Lepomis sp.	.	55	3	.	.
SMALLMOUTH BASS	.	231	195	.	.
LARGEMOUTH BASS	.	180	74	.	.
SITE: DESPLAINES LOCATION: 403A		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 21MAY13:13:54		END DATE AND TIME: 21MAY13:14:31			
LONGNOSE GAR	.	460	195	.	.
GIZZARD SHAD	.	279	190	.	.
GIZZARD SHAD	.	138	29	.	.
GIZZARD SHAD	.	134	26	.	.
GIZZARD SHAD	.	140	29	.	.
GOLDFISH	.	291	480	.	.
COMMON CARP	.	231	180	.	.
SMALLMOUTH BUFFALO	.	532	2190	.	.
SMALLMOUTH BUFFALO	.	433	1420	.	.
BLUEGILL	.	75	8	.	.
LARGEMOUTH BASS	.	262	265	.	.
FRESHWATER DRUM	.	342	540	.	.
SITE: DESPLAINES LOCATION: 404A		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 21MAY13:15:03		END DATE AND TIME: 21MAY13:15:39			
LONGNOSE GAR	.	798	1190	.	.
GIZZARD SHAD	.	157	35	.	.
GIZZARD SHAD	.	219	140	.	.
GIZZARD SHAD	.	142	27	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	151	41	.	.
GIZZARD SHAD	.	152	38	.	.
GIZZARD SHAD	.	143	31	.	.
GIZZARD SHAD	.	126	22	.	.
COMMON CARP	.	448	1210	.	.
COMMON CARP	.	187	125	.	.
EMERALD SHINER	.	.	.	1	3
GREEN SUNFISH	.	150	72	.	.
GREEN SUNFISH	.	128	50	.	.
GREEN SUNFISH	.	90	17	.	.
GREEN SUNFISH	.	85	16	.	.
GREEN SUNFISH	.	58	4	.	.
GREEN SUNFISH	.	88	18	.	.
BLUEGILL	.	130	41	.	.
BLUEGILL	.	118	32	.	.
BLUEGILL	.	138	50	.	.
BLUEGILL	.	122	42	.	.
BLUEGILL	.	115	28	.	.
BLUEGILL	.	136	50	.	.
BLUEGILL	.	92	15	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	75	9	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	113	30	.	.
BLUEGILL	.	55	2	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	103	24	.	.
BLUEGILL	.	105	21	.	.
BLUEGILL	.	116	32	.	.
BLUEGILL	.	104	23	.	.
BLUEGILL	.	117	32	.	.
BLUEGILL	.	106	24	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	112	30	.	.
BLUEGILL	.	110	25	.	.
BLUEGILL	.	79	9	.	.
BLUEGILL	.	116	35	.	.
BLUEGILL	.	73	6	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	67	5	.	.
SMALLMOUTH BASS	.	170	54	.	.
LARGEMOUTH BASS	.	292	385	.	.
LARGEMOUTH BASS	.	246	265	.	.
LARGEMOUTH BASS	.	217	160	.	.
LARGEMOUTH BASS	.	132	32	.	.
FRESHWATER DRUM	.	410	915	.	.
FRESHWATER DRUM	.	372	720	.	.

SITE: DESPLAINES LOCATION: 405 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 21MAY13:16:25 END DATE AND TIME: 21MAY13:17:07

GIZZARD SHAD	.	126	19	.	.
GIZZARD SHAD	.	137	23	.	.
GIZZARD SHAD	.	142	24	.	.
GIZZARD SHAD	.	300	250	.	.
GIZZARD SHAD	.	154	36	.	.
GIZZARD SHAD	.	154	37	.	.
GIZZARD SHAD	.	145	28	.	.
GIZZARD SHAD	.	325	300	.	.
GIZZARD SHAD	.	223	130	.	.
GIZZARD SHAD	.	208	110	.	.
GIZZARD SHAD	.	122	16	.	.
GIZZARD SHAD	.	131	23	.	.
GIZZARD SHAD	.	139	26	.	.
GIZZARD SHAD	.	135	22	.	.
GIZZARD SHAD	.	127	21	.	.
GIZZARD SHAD	.	158	42	.	.
GIZZARD SHAD	.	145	31	.	.
GIZZARD SHAD	.	140	23	.	.
GIZZARD SHAD	.	129	18	.	.
GIZZARD SHAD	.	150	36	.	.
GIZZARD SHAD	.	142	29	.	.
GIZZARD SHAD	.	128	20	.	.
GIZZARD SHAD	.	141	29	.	.
GIZZARD SHAD	.	126	18	.	.
GIZZARD SHAD	.	122	16	.	.
GIZZARD SHAD	.	140	20	.	.
GIZZARD SHAD	.	132	20	.	.
GIZZARD SHAD	.	138	26	.	.
GIZZARD SHAD	.	117	10	.	.
GIZZARD SHAD	.	280	215	.	.
GIZZARD SHAD	.	.	.	2	345
GIZZARD SHAD	.	.	.	26	700
GIZZARD SHAD	.	.	.	2	380

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	.	.	3	160
GIZZARD SHAD	.	138	30	.	.
GIZZARD SHAD	.	131	27	.	.
COMMON CARP	.	551	2160	.	.
COMMON CARP	.	607	3000	.	.
BLUNTNOSE MINNOW	.	.	.	12	32
CHANNEL CATFISH	.	495	1440	.	.
CHANNEL CATFISH	.	502	1460	.	.
GREEN SUNFISH	.	172	130	.	.
GREEN SUNFISH	.	147	76	.	.
GREEN SUNFISH	.	61	4	.	.
GREEN SUNFISH	.	98	20	.	.
GREEN SUNFISH	.	120	42	.	.
GREEN SUNFISH	.	83	15	.	.
GREEN SUNFISH	.	70	7	.	.
GREEN SUNFISH	.	60	4	.	.
GREEN SUNFISH	.	105	26	.	.
GREEN SUNFISH	.	86	11	.	.
GREEN SUNFISH	.	62	5	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	38	1	.	.
GREEN SUNFISH	.	61	5	.	.
GREEN SUNFISH	.	56	3	.	.
GREEN SUNFISH	.	44	2	.	.
GREEN SUNFISH	.	37	1	.	.
GREEN SUNFISH	.	42	2	.	.
GREEN SUNFISH	.	71	7	.	.
GREEN SUNFISH	.	76	10	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	71	8	.	.
GREEN SUNFISH	.	65	6	.	.
GREEN SUNFISH	.	55	3	.	.
GREEN SUNFISH	.	73	9	.	.
PUMPKINSEED	.	107	23	.	.
PUMPKINSEED	.	78	11	.	.
PUMPKINSEED	.	47	2	.	.
BLUEGILL	.	141	49	.	.
BLUEGILL	.	138	46	.	.
BLUEGILL	.	142	42	.	.
BLUEGILL	.	117	32	.	.
BLUEGILL	.	120	28	.	.
BLUEGILL	.	112	20	.	.
BLUEGILL	.	112	26	.	.
BLUEGILL	.	127	34	.	.
BLUEGILL	.	117	27	.	.
BLUEGILL	.	125	34	.	.
BLUEGILL	.	116	27	.	.
BLUEGILL	.	128	32	.	.
BLUEGILL	.	105	17	.	.
BLUEGILL	.	157	100	.	.
BLUEGILL	.	117	24	.	.
BLUEGILL	.	99	19	.	.
BLUEGILL	.	103	20	.	.
BLUEGILL	.	94	16	.	.
BLUEGILL	.	102	23	.	.
BLUEGILL	.	74	7	.	.
BLUEGILL	.	103	25	.	.
BLUEGILL	.	94	19	.	.
BLUEGILL	.	96	18	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	36	1	.	.
NORTHERN SUNFISH	.	93	20	.	.
Lepomis HYBRID	.	.	.	1	250
Lepomis HYBRID	.	.	.	1	80
Lepomis HYBRID	.	.	.	1	20
LARGEMOUTH BASS	.	255	260	.	.
LARGEMOUTH BASS	.	268	240	.	.
LARGEMOUTH BASS	.	263	300	.	.
LARGEMOUTH BASS	.	242	195	.	.
LARGEMOUTH BASS	.	251	250	.	.
LARGEMOUTH BASS	.	267	265	.	.
LARGEMOUTH BASS	.	276	320	.	.
LARGEMOUTH BASS	.	282	390	.	.
LARGEMOUTH BASS	.	330	565	.	.
LARGEMOUTH BASS	.	167	56	.	.
LARGEMOUTH BASS	.	119	20	.	.

SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 21MAY13:17:42 END DATE AND TIME: 21MAY13:18:22

GIZZARD SHAD	.	157	46	.	.
GIZZARD SHAD	.	226	110	.	.
GIZZARD SHAD	.	267	185	.	.
GIZZARD SHAD	.	161	43	.	.
GIZZARD SHAD	.	177	60	.	.
GIZZARD SHAD	.	132	21	.	.
GIZZARD SHAD	.	127	17	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	132	18	.	.
GIZZARD SHAD	.	152	28	.	.
GIZZARD SHAD	.	197	81	.	.
GIZZARD SHAD	.	134	26	.	.
GIZZARD SHAD	.	263	190	.	.
GIZZARD SHAD	.	145	37	.	.
GIZZARD SHAD	.	157	41	.	.
GIZZARD SHAD	.	138	25	.	.
GIZZARD SHAD	.	123	20	.	.
COMMON CARP	.	570	2060	.	.
COMMON CARP	.	522	1770	.	.
EMERALD SHINER	.	.	.	1	1
BLUNTNOST MINNOW	.	.	.	6	14
BULLHEAD MINNOW	.	.	.	1	1
RIVER CARPSUCKER	.	447	1025	.	.
GREEN SUNFISH	.	174	120	.	.
GREEN SUNFISH	.	147	90	.	.
GREEN SUNFISH	.	110	28	.	.
GREEN SUNFISH	.	89	17	.	.
GREEN SUNFISH	.	70	8	.	.
GREEN SUNFISH	.	61	5	.	.
PUMPKINSEED	.	112	30	.	.
PUMPKINSEED	.	58	5	.	.
ORANGESPOTTED SUNFISH	.	43	1	.	.
BLUEGILL	.	142	53	.	.
BLUEGILL	.	117	33	.	.
BLUEGILL	.	122	40	.	.
BLUEGILL	.	148	60	.	.
BLUEGILL	.	125	33	.	.
BLUEGILL	.	103	18	.	.
BLUEGILL	.	112	21	.	.
BLUEGILL	.	185	140	.	.
BLUEGILL	.	112	23	.	.
BLUEGILL	.	110	24	.	.
BLUEGILL	.	98	15	.	.
BLUEGILL	.	109	19	.	.
BLUEGILL	.	156	75	.	.
BLUEGILL	.	117	25	.	.
BLUEGILL	.	98	13	.	.
BLUEGILL	.	112	21	.	.
BLUEGILL	.	106	22	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	113	32	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	45	1	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	67	5	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	59	3	.	.
BLUEGILL	.	.	.	47	354
Lepomis HYBRID	.	.	.	1	29
Lepomis HYBRID	.	.	.	1	190
Lepomis HYBRID	.	.	.	1	200
Lepomis HYBRID	.	.	.	1	12
Lepomis HYBRID	.	.	.	2	15
Lepomis HYBRID	.	.	.	1	5
LARGEMOUTH BASS	.	218	125	.	.
LARGEMOUTH BASS	.	185	70	.	.
LARGEMOUTH BASS	.	377	850	.	.
LARGEMOUTH BASS	.	182	62	.	.
LARGEMOUTH BASS	.	136	27	.	.
LARGEMOUTH BASS	.	212	145	.	.
LARGEMOUTH BASS	.	192	100	.	.
LARGEMOUTH BASS	.	194	115	.	.

SITE: DESPLAINES LOCATION: 412A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 22MAY13:08:30 END DATE AND TIME: 22MAY13:09:06

GIZZARD SHAD	.	219	102	.	.
GIZZARD SHAD	.	152	38	.	.
GIZZARD SHAD	.	230	105	.	.
GIZZARD SHAD	.	281	245	.	.
GIZZARD SHAD	.	147	32	.	.
GIZZARD SHAD	.	147	28	.	.
GIZZARD SHAD	.	130	25	.	.
GIZZARD SHAD	.	113	18	.	.
GIZZARD SHAD	.	138	30	.	.
EMERALD SHINER	.	.	.	1	4
BLUNTNOST MINNOW	.	.	.	3	12
SHORHEAD REDHORSE	.	282	220	.	.
GREEN SUNFISH	.	116	32	.	.
GREEN SUNFISH	.	101	27	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	67	7	.	.
GREEN SUNFISH	.	73	8	.	.
PUMPKINSEED	.	58	4	.	.
BLUEGILL	.	140	46	.	.
BLUEGILL	.	98	15	.	.
BLUEGILL	.	133	43	.	.
BLUEGILL	.	158	85	.	.
BLUEGILL	.	165	81	.	.
BLUEGILL	.	127	41	.	.
BLUEGILL	.	153	67	.	.
BLUEGILL	.	139	51	.	.
BLUEGILL	.	103	17	.	.
BLUEGILL	.	108	20	.	.
BLUEGILL	.	126	31	.	.
BLUEGILL	.	105	24	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	.	107	20	.	.
BLUEGILL	.	117	27	.	.
BLUEGILL	.	115	27	.	.
BLUEGILL	.	105	18	.	.
BLUEGILL	.	116	27	.	.
BLUEGILL	.	88	11	.	.
BLUEGILL	.	107	22	.	.
BLUEGILL	.	122	27	.	.
BLUEGILL	.	110	24	.	.
BLUEGILL	.	110	21	.	.
BLUEGILL	.	108	20	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	50	2	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	.	.	28	298
LARGEMOUTH BASS	.	396	1025	.	.
LARGEMOUTH BASS	.	320	520	.	.
LARGEMOUTH BASS	.	391	1020	.	.
LARGEMOUTH BASS	.	237	195	.	.
LARGEMOUTH BASS	.	207	105	.	.
LARGEMOUTH BASS	.	268	330	.	.
LARGEMOUTH BASS	.	354	700	.	.
LARGEMOUTH BASS	.	255	240	.	.
LARGEMOUTH BASS	.	212	109	.	.

SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 22MAY13:09:46 END DATE AND TIME: 22MAY13:10:29

GIZZARD SHAD	.	260	170	.	.
GIZZARD SHAD	.	142	27	.	.
GIZZARD SHAD	.	135	25	.	.
COMMON CARP	.	370	750	.	.
COMMON CARP	.	586	3220	.	.
BLUNTNOSE MINNOW	.	.	.	1	1
YELLOW BULLHEAD	.	158	46	.	.
YELLOW BULLHEAD	.	207	125	.	.
CHANNEL CATFISH	.	470	1380	.	.
CHANNEL CATFISH	.	588	2210	.	.
GREEN SUNFISH	.	116	32	.	.
GREEN SUNFISH	.	157	75	.	.
GREEN SUNFISH	.	117	37	.	.
GREEN SUNFISH	.	142	58	.	.
GREEN SUNFISH	.	141	66	.	.
GREEN SUNFISH	.	107	29	.	.
GREEN SUNFISH	.	104	26	.	.
GREEN SUNFISH	.	95	20	.	.
GREEN SUNFISH	.	85	15	.	.
GREEN SUNFISH	.	51	3	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	70	6	.	.
GREEN SUNFISH	.	57	4	.	.
GREEN SUNFISH	.	53	4	.	.
GREEN SUNFISH	.	61	5	.	.
PUMPKINSEED	.	52	3	.	.
PUMPKINSEED	.	75	9	.	.
PUMPKINSEED	.	58	4	.	.
PUMPKINSEED	.	51	3	.	.
ORANGESPOTTED SUNFISH	.	88	14	.	.
ORANGESPOTTED SUNFISH	.	87	13	.	.
ORANGESPOTTED SUNFISH	.	39	1	.	.
ORANGESPOTTED SUNFISH	.	85	12	.	.
ORANGESPOTTED SUNFISH	.	86	14	.	.
ORANGESPOTTED SUNFISH	.	87	14	.	.
ORANGESPOTTED SUNFISH	.	86	16	.	.
ORANGESPOTTED SUNFISH	.	74	8	.	.
ORANGESPOTTED SUNFISH	.	53	3	.	.
ORANGESPOTTED SUNFISH	.	65	6	.	.
ORANGESPOTTED SUNFISH	.	62	4	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
ORANGESPOTTED SUNFISH	.	56	3	.	.
ORANGESPOTTED SUNFISH	.	51	3	.	.
ORANGESPOTTED SUNFISH	.	65	6	.	.
BLUEGILL	.	158	75	.	.
BLUEGILL	.	163	95	.	.
BLUEGILL	.	157	92	.	.
BLUEGILL	.	154	65	.	.
BLUEGILL	.	176	120	.	.
BLUEGILL	.	158	74	.	.
BLUEGILL	.	142	54	.	.
BLUEGILL	.	147	55	.	.
BLUEGILL	.	134	47	.	.
BLUEGILL	.	122	35	.	.
BLUEGILL	.	142	55	.	.
BLUEGILL	.	153	76	.	.
BLUEGILL	.	137	51	.	.
BLUEGILL	.	117	32	.	.
BLUEGILL	.	107	25	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	.	120	40	.	.
BLUEGILL	.	.	.	8	550
BLUEGILL	.	.	.	2	120
BLUEGILL	.	.	.	4	115
BLUEGILL	.	.	.	7	135
BLUEGILL	.	.	.	103	3170
BLUEGILL	.	42	1	.	.
BLUEGILL	.	54	3	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	33	1	.	.
BLUEGILL	.	.	.	64	402
Lepomis HYBRID	.	.	.	1	250
Lepomis HYBRID	.	.	.	1	62
Lepomis HYBRID	.	.	.	1	80
Lepomis HYBRID	.	.	.	1	60
Lepomis HYBRID	.	.	.	1	14
LARGEMOUTH BASS	.	239	190	.	.
LARGEMOUTH BASS	.	145	41	.	.
LARGEMOUTH BASS	.	291	340	.	.
LARGEMOUTH BASS	.	237	185	.	.
LARGEMOUTH BASS	.	365	595	.	.
LARGEMOUTH BASS	.	220	185	.	.
LARGEMOUTH BASS	.	270	310	.	.
LARGEMOUTH BASS	.	275	355	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 22MAY13:12:03 END DATE AND TIME: 22MAY13:12:41

GIZZARD SHAD	.	338	375	.	.
GIZZARD SHAD	.	240	155	.	.
GIZZARD SHAD	.	277	185	.	.
GIZZARD SHAD	.	281	235	.	.
GIZZARD SHAD	.	263	160	.	.
GIZZARD SHAD	.	139	30	.	.
GIZZARD SHAD	.	301	250	.	.
GIZZARD SHAD	.	345	355	.	.
GIZZARD SHAD	.	297	275	.	.
GIZZARD SHAD	.	275	205	.	.
GIZZARD SHAD	.	282	200	.	.
GIZZARD SHAD	.	317	280	.	.
GIZZARD SHAD	.	250	140	.	.
GIZZARD SHAD	.	277	220	.	.
GIZZARD SHAD	.	163	48	.	.
GIZZARD SHAD	.	280	200	.	.
GIZZARD SHAD	.	321	310	.	.
GIZZARD SHAD	.	197	85	.	.
GIZZARD SHAD	.	252	185	.	.
GIZZARD SHAD	.	261	165	.	.
GIZZARD SHAD	.	192	70	.	.
BLUNTNOSE MINNOW	.	.	.	14	31
BULLHEAD MINNOW	.	.	.	1	2
BULLHEAD MINNOW	.	.	.	1	1
SMALLMOUTH BUFFALO	.	418	1175	.	.
SMALLMOUTH BUFFALO	.	490	1730	.	.
GREEN SUNFISH	.	122	44	.	.
GREEN SUNFISH	.	142	62	.	.
GREEN SUNFISH	.	135	54	.	.
GREEN SUNFISH	.	133	56	.	.
GREEN SUNFISH	.	64	6	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	99	21	.	.
GREEN SUNFISH	.	88	15	.	.
GREEN SUNFISH	.	70	7	.	.
PUMPKINSEED	.	142	65	.	.
ORANGESPOTTED SUNFISH	.	66	5	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	170	150	.	.
BLUEGILL	.	134	47	.	.
BLUEGILL	.	136	52	.	.
BLUEGILL	.	108	23	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	.	117	28	.	.
BLUEGILL	.	152	71	.	.
BLUEGILL	.	156	85	.	.
BLUEGILL	.	174	110	.	.
BLUEGILL	.	159	70	.	.
BLUEGILL	.	137	60	.	.
BLUEGILL	.	122	33	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	119	32	.	.
BLUEGILL	.	117	30	.	.
BLUEGILL	.	125	41	.	.
BLUEGILL	.	110	24	.	.
BLUEGILL	.	108	25	.	.
BLUEGILL	.	124	34	.	.
BLUEGILL	.	132	37	.	.
BLUEGILL	.	111	22	.	.
BLUEGILL	.	108	25	.	.
BLUEGILL	.	131	47	.	.
BLUEGILL	.	91	13	.	.
BLUEGILL	.	116	28	.	.
BLUEGILL	.	117	31	.	.
BLUEGILL	.	102	18	.	.
BLUEGILL	.	112	22	.	.
BLUEGILL	.	119	37	.	.
BLUEGILL	.	130	47	.	.
BLUEGILL	.	.	.	2	245
BLUEGILL	.	.	.	27	1040
BLUEGILL	.	.	.	1	91
BLUEGILL	.	.	.	4	120
BLUEGILL	.	.	.	5	205
BLUEGILL	.	.	.	5	185
BLUEGILL	.	.	.	1	36
BLUEGILL	.	.	.	22	151
NORTHERN SUNFISH	.	89	15	.	.
NORTHERN SUNFISH	.	79	10	.	.
NORTHERN SUNFISH	.	85	11	.	.
NORTHERN SUNFISH	.	74	9	.	.
NORTHERN SUNFISH	.	94	15	.	.
Lepomis HYBRID	.	.	.	1	54
Lepomis HYBRID	.	.	.	1	14
LARGEMOUTH BASS	.	392	920	.	.
LARGEMOUTH BASS	.	432	1190	.	.
LARGEMOUTH BASS	.	457	1365	.	.
LARGEMOUTH BASS	.	377	830	.	.
LARGEMOUTH BASS	.	346	745	.	.
LARGEMOUTH BASS	.	304	450	.	.
LARGEMOUTH BASS	.	328	600	.	.
LARGEMOUTH BASS	.	414	1195	.	.
LARGEMOUTH BASS	.	302	450	.	.
LARGEMOUTH BASS	.	177	61	.	.
LARGEMOUTH BASS	.	307	400	.	.
LARGEMOUTH BASS	.	343	620	.	.
LARGEMOUTH BASS	.	391	940	.	.
LARGEMOUTH BASS	.	366	750	.	.
LARGEMOUTH BASS	.	357	710	.	.
LARGEMOUTH BASS	.	263	290	.	.
LARGEMOUTH BASS	.	260	240	.	.
LARGEMOUTH BASS	.	242	205	.	.
LARGEMOUTH BASS	.	182	74	.	.
LARGEMOUTH BASS	.	350	740	.	.
LARGEMOUTH BASS	.	268	290	.	.
LARGEMOUTH BASS	.	327	480	.	.
LARGEMOUTH BASS	.	135	28	.	.

SITE: DESPLAINES LOCATION: 419A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 22MAY13:13:31 END DATE AND TIME: 22MAY13:14:04

GIZZARD SHAD	.	241	145	.	.
GIZZARD SHAD	.	253	170	.	.
GIZZARD SHAD	.	238	140	.	.
GIZZARD SHAD	.	280	200	.	.
COMMON CARP	.	351	670	.	.
COMMON CARP	.	502	1670	.	.
COMMON CARP	.	525	2200	.	.
COMMON CARP	.	468	1380	.	.
BLUNTNOSE MINNOW	.	.	.	1	2
CHANNEL CATFISH	.	495	1170	.	.
ROCK BASS	.	204	200	.	.
GREEN SUNFISH	.	123	48	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	60	5	.	.
PUMPKINSEED	.	78	9	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	----	-----	-----	-----	-----
BLUEGILL	.	124	37	.	.
BLUEGILL	.	121	32	.	.
BLUEGILL	.	108	22	.	.
BLUEGILL	.	106	21	.	.
BLUEGILL	.	105	19	.	.
BLUEGILL	.	133	46	.	.
BLUEGILL	.	107	23	.	.
BLUEGILL	.	142	51	.	.
BLUEGILL	.	108	22	.	.
BLUEGILL	.	142	54	.	.
BLUEGILL	.	107	20	.	.
BLUEGILL	.	142	50	.	.
BLUEGILL	.	123	30	.	.
BLUEGILL	.	77	8	.	.
BLUEGILL	.	134	48	.	.
BLUEGILL	.	102	16	.	.
BLUEGILL	.	118	29	.	.
BLUEGILL	.	117	32	.	.
BLUEGILL	.	103	18	.	.
BLUEGILL	.	108	24	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	100	18	.	.
BLUEGILL	.	84	11	.	.
BLUEGILL	.	71	6	.	.
BLUEGILL	.	39	1	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	62	4	.	.
Lepomis HYBRID	.	.	.	1	66
LARGEMOUTH BASS	.	181	76	.	.
LARGEMOUTH BASS	.	293	460	.	.
LARGEMOUTH BASS	.	307	430	.	.
LARGEMOUTH BASS	.	208	130	.	.
LARGEMOUTH BASS	.	197	100	.	.
LARGEMOUTH BASS	.	224	170	.	.
LARGEMOUTH BASS	.	226	210	.	.
LARGEMOUTH BASS	.	198	120	.	.
LARGEMOUTH BASS	.	264	265	.	.
SITE: SHIP CANAL LOCATION: 302A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 20MAY13:11:50 END DATE AND TIME: 20MAY13:11:56					
BLUEGILL	.	67	6	.	.
SITE: SHIP CANAL LOCATION: 304 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 20MAY13:14:20 END DATE AND TIME: 20MAY13:14:26					
EMERALD SHINER	.	.	.	3	8
PUMPKINSEED	.	65	6	.	.
PUMPKINSEED	.	67	7	.	.
PUMPKINSEED	.	68	7	.	.
SITE: SHIP CANAL LOCATION: 305 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 20MAY13:14:05 END DATE AND TIME: 20MAY13:14:10					
BLUNTNOSE MINNOW	.	.	.	1	1
TADPOLE MADTOM	.	56	3	.	.
TADPOLE MADTOM	.	48	2	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	3	2
PUMPKINSEED	.	60	4	.	.
PUMPKINSEED	.	58	3	.	.
PUMPKINSEED	.	58	3	.	.
PUMPKINSEED	.	47	2	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	48	2	.	.
ROUND GOBY	.	52	2	.	.
ROUND GOBY	.	53	2	.	.
ROUND GOBY	.	55	3	.	.
ROUND GOBY	.	53	2	.	.
ROUND GOBY	.	52	2	.	.
ROUND GOBY	.	57	3	.	.
ROUND GOBY	.	64	4	.	.
SITE: SHIP CANAL LOCATION: 306 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 20MAY13:13:50 END DATE AND TIME: 20MAY13:13:55					
NO FISH	.	.	.	0	.
SITE: SHIP CANAL LOCATION: 307 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 20MAY13:13:39 END DATE AND TIME: 20MAY13:13:45					
NO FISH	.	.	.	0	.
SITE: SHIP CANAL LOCATION: 301 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 20MAY13:08:51 END DATE AND TIME: 20MAY13:09:25					
GREEN SUNFISH	.	101	17	.	.
BLUEGILL	.	58	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
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SITE: SHIP CANAL LOCATION: 302 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 20MAY13:09:39 END DATE AND TIME: 20MAY13:10:11

LONGNOSE GAR	.	721	850	.	.
SPOTFIN SHINER	.	.	.	1	1

SITE: SHIP CANAL LOCATION: 302A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 20MAY13:12:06 END DATE AND TIME: 20MAY13:12:39

COMMON CARP	.	447	1370	.	.
COMMON CARP	.	540	1870	.	.
BLUNTNOSE MINNOW	.	.	.	4	10
YELLOW BULLHEAD	.	192	100	.	.
CHANNEL CATFISH	.	456	900	.	.
CHANNEL CATFISH	.	440	900	.	.
CHANNEL CATFISH	.	345	180	.	.
CHANNEL CATFISH	.	412	660	.	.
GREEN SUNFISH	.	112	32	.	.
GREEN SUNFISH	.	51	3	.	.
PUMPKINSEED	.	90	18	.	.
PUMPKINSEED	.	59	4	.	.
PUMPKINSEED	.	72	8	.	.
PUMPKINSEED	.	83	14	.	.
PUMPKINSEED	.	76	9	.	.
PUMPKINSEED	.	90	20	.	.
PUMPKINSEED	.	70	7	.	.
PUMPKINSEED	.	66	6	.	.
PUMPKINSEED	.	63	5	.	.
PUMPKINSEED	.	65	5	.	.
PUMPKINSEED	.	74	9	.	.
PUMPKINSEED	.	76	9	.	.
PUMPKINSEED	.	85	14	.	.
PUMPKINSEED	.	79	11	.	.
PUMPKINSEED	.	63	5	.	.
PUMPKINSEED	.	59	4	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	50	3	.	.
LARGEMOUTH BASS	.	258	220	.	.
LARGEMOUTH BASS	.	226	180	.	.
LARGEMOUTH BASS	.	350	680	.	.

SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 20MAY13:10:45 END DATE AND TIME: 20MAY13:11:21

GIZZARD SHAD	.	302	245	.	.
GIZZARD SHAD	.	205	100	.	.
GIZZARD SHAD	.	344	470	.	.
GIZZARD SHAD	.	261	170	.	.
GIZZARD SHAD	.	114	19	.	.
GIZZARD SHAD	.	106	8	.	.
COMMON CARP	.	468	1420	.	.
COMMON CARP	.	476	1540	.	.
GOLDEN SHINER	.	.	.	1	10
GOLDEN SHINER	.	.	.	1	6
EMERALD SHINER	.	.	.	2	9
BLUNTNOSE MINNOW	.	.	.	8	37
ORIENTAL WEATHERFISH	.	97	5	.	.
CHANNEL CATFISH	.	528	2000	.	.
CHANNEL CATFISH	.	407	715	.	.
CHANNEL CATFISH	.	440	950	.	.
CHANNEL CATFISH	.	403	540	.	.
GREEN SUNFISH	.	127	38	.	.
GREEN SUNFISH	.	120	32	.	.
GREEN SUNFISH	.	115	26	.	.
GREEN SUNFISH	.	99	25	.	.
GREEN SUNFISH	.	96	17	.	.
GREEN SUNFISH	.	83	14	.	.
GREEN SUNFISH	.	115	40	.	.
GREEN SUNFISH	.	51	3	.	.
PUMPKINSEED	.	88	11	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	81	12	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	61	5	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	75	9	.	.
BLUEGILL	.	50	2	.	.
FRESHWATER DRUM	.	415	1060	.	.
FRESHWATER DRUM	.	342	580	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 20MAY13:15:50 END DATE AND TIME: 20MAY13:16:23					
GIZZARD SHAD	.	252	130	.	.
GIZZARD SHAD	.	223	105	.	.
YELLOW BULLHEAD	.	286	370	.	.
YELLOW BULLHEAD	.	177	94	.	.
YELLOW BULLHEAD	.	236	220	.	.
YELLOW BULLHEAD	.	162	65	.	.
YELLOW BULLHEAD	.	116	25	.	.
YELLOW BULLHEAD	.	95	13	.	.
GREEN SUNFISH	.	80	13	.	.
GREEN SUNFISH	.	121	38	.	.
PUMPKINSEED	.	53	3	.	.
Lepomis HYBRID	.	.	.	1	7
SMALLMOUTH BASS	.	190	100	.	.

SITE: SHIP CANAL LOCATION: 304 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 20MAY13:14:40 END DATE AND TIME: 20MAY13:15:09					

COMMON CARP	.	468	1450	.	.
COMMON CARP	.	740	5900	.	.
COMMON CARP	.	754	6600	.	.
COMMON CARP	.	559	2010	.	.
EMERALD SHINER	.	.	.	1	3
EMERALD SHINER	.	.	.	6	21
BLUNTNOSE MINNOW	.	.	.	1	10
BLUNTNOSE MINNOW	.	.	.	2	3
YELLOW BULLHEAD	.	190	100	.	.
YELLOW BULLHEAD	.	226	185	.	.
CHANNEL CATFISH	.	487	1150	.	.
CHANNEL CATFISH	.	452	1190	.	.
CHANNEL CATFISH	.	468	1370	.	.
CHANNEL CATFISH	.	537	1590	.	.
CHANNEL CATFISH	.	491	1510	.	.
ROCK BASS	.	79	11	.	.
GREEN SUNFISH	.	88	17	.	.
GREEN SUNFISH	.	82	12	.	.
GREEN SUNFISH	.	75	8	.	.
PUMPKINSEED	.	81	11	.	.
ORANGESPOTTED SUNFISH	.	68	6	.	.
ORANGESPOTTED SUNFISH	.	81	12	.	.
ORANGESPOTTED SUNFISH	.	77	9	.	.
BLUEGILL	.	108	22	.	.
BLUEGILL	.	108	27	.	.
BLUEGILL	.	116	29	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	92	15	.	.
BLUEGILL	YOY	38	1	.	.
NORTHERN SUNFISH	.	73	9	.	.
SMALLMOUTH BASS	.	224	160	.	.
SMALLMOUTH BASS	.	166	62	.	.
SMALLMOUTH BASS	.	142	37	.	.
SMALLMOUTH BASS	.	147	40	.	.
SMALLMOUTH BASS	.	176	71	.	.
SMALLMOUTH BASS	.	165	55	.	.
SMALLMOUTH BASS	.	102	12	.	.
SMALLMOUTH BASS	.	172	74	.	.
ROUND GOBY	.	63	4	.	.
ROUND GOBY	.	70	6	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 20MAY13:16:44 END DATE AND TIME: 20MAY13:17:20					

GIZZARD SHAD	.	260	190	.	.
GIZZARD SHAD	.	283	270	.	.
GIZZARD SHAD	.	142	28	.	.
GIZZARD SHAD	.	148	30	.	.
GIZZARD SHAD	.	157	42	.	.
GIZZARD SHAD	.	145	31	.	.
GIZZARD SHAD	.	298	310	.	.
GIZZARD SHAD	.	147	32	.	.
GIZZARD SHAD	.	166	50	.	.
GIZZARD SHAD	.	142	28	.	.
GIZZARD SHAD	.	157	41	.	.
GIZZARD SHAD	.	152	38	.	.
GIZZARD SHAD	.	238	150	.	.
GIZZARD SHAD	.	156	38	.	.
GIZZARD SHAD	.	167	55	.	.
GIZZARD SHAD	.	150	37	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	317	300	.	.
GIZZARD SHAD	.	312	270	.	.
GIZZARD SHAD	.	258	160	.	.
GIZZARD SHAD	.	143	35	.	.
GIZZARD SHAD	.	162	38	.	.
GIZZARD SHAD	.	142	31	.	.
GIZZARD SHAD	.	151	40	.	.
GIZZARD SHAD	.	160	43	.	.
GIZZARD SHAD	.	275	190	.	.
GIZZARD SHAD	.	142	32	.	.
GIZZARD SHAD	.	290	240	.	.
GIZZARD SHAD	.	200	80	.	.
GIZZARD SHAD	.	163	38	.	.
GIZZARD SHAD	.	.	.	1	100
GIZZARD SHAD	.	158	39	.	.
GIZZARD SHAD	.	96	6	.	.
COMMON CARP	.	538	2480	.	.
ORIENTAL WEATHERFISH	.	133	15	.	.
WHITE BASS	.	288	260	.	.
PUMPKINSEED	.	76	8	.	.
PUMPKINSEED	.	58	4	.	.
BLUEGILL	.	127	31	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	55	3	.	.
SMALLMOUTH BASS	.	142	28	.	.
SMALLMOUTH BASS	.	141	41	.	.
ROUND GOBY	.	60	3	.	.
ROUND GOBY	.	80	8	.	.
ROUND GOBY	.	61	3	.	.

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 20MAY13:17:51 END DATE AND TIME: 20MAY13:18:22

GIZZARD SHAD	.	345	460	.	.
GIZZARD SHAD	.	262	195	.	.
GOLDEN SHINER	.	.	.	1	9
EMERALD SHINER	.	.	.	1	7
BLUNTNOST MINNOW	.	.	.	4	11
CHANNEL CATFISH	.	486	1410	.	.
GREEN SUNFISH	.	.	.	1	25
PUMPKINSEED	.	70	7	.	.
BLUEGILL	.	60	3	.	.
BLUEGILL	.	71	8	.	.
BLUEGILL	.	86	14	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	76	9	.	.
Lepomis HYBRID	.	.	.	2	48
SMALLMOUTH BASS	.	177	81	.	.
FRESHWATER DRUM	.	346	665	.	.
ROUND GOBY	.	53	2	.	.

SITE: SHIP CANAL LOCATION: 307 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 20MAY13:18:45 END DATE AND TIME: 20MAY13:19:21

GIZZARD SHAD	.	227	110	.	.
GIZZARD SHAD	.	170	54	.	.
GIZZARD SHAD	.	168	55	.	.
GIZZARD SHAD	.	176	60	.	.
GIZZARD SHAD	.	197	82	.	.
GIZZARD SHAD	.	155	38	.	.
GIZZARD SHAD	.	176	69	.	.
GIZZARD SHAD	.	226	108	.	.
GIZZARD SHAD	.	194	91	.	.
GIZZARD SHAD	.	161	48	.	.
GIZZARD SHAD	.	163	48	.	.
GIZZARD SHAD	.	179	73	.	.
GIZZARD SHAD	.	152	44	.	.
GIZZARD SHAD	.	180	51	.	.
GIZZARD SHAD	.	179	66	.	.
GIZZARD SHAD	.	193	64	.	.
GIZZARD SHAD	.	165	50	.	.
GIZZARD SHAD	.	192	85	.	.
GIZZARD SHAD	.	167	53	.	.
GIZZARD SHAD	.	184	60	.	.
GIZZARD SHAD	.	151	36	.	.
GIZZARD SHAD	.	149	34	.	.
GIZZARD SHAD	.	152	43	.	.
GIZZARD SHAD	.	145	39	.	.
GIZZARD SHAD	.	149	40	.	.
GIZZARD SHAD	.	164	49	.	.
GIZZARD SHAD	.	139	32	.	.
GIZZARD SHAD	.	136	30	.	.
GIZZARD SHAD	.	129	22	.	.
EMERALD SHINER	.	.	.	4	21
BLUNTNOST MINNOW	.	.	.	1	3

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	137	57	.	.
GREEN SUNFISH	.	55	4	.	.
PUMPKINSEED	.	79	10	.	.
PUMPKINSEED	.	67	5	.	.
PUMPKINSEED	.	56	4	.	.
PUMPKINSEED	.	72	7	.	.
BLUEGILL	.	130	45	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	67	5	.	.
FRESHWATER DRUM	.	315	505	.	.
ROUND GOBY	.	60	3	.	.
ROUND GOBY	.	56	3	.	.
SITE: SHIP CANAL LOCATION: 309 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 21MAY13:07:15 END DATE AND TIME: 21MAY13:07:48					
COMMON CARP	.	689	5250	.	.
SITE: DESPLAINES LOCATION: 402 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 05JUN13:12:45 END DATE AND TIME: 05JUN13:12:50					
NO FISH	.	.	.	0	.
SITE: DESPLAINES LOCATION: 403A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 05JUN13:12:20 END DATE AND TIME: 05JUN13:12:25					
BLUNTNOSSE MINNOW	.	.	.	22	30
Moxostoma sp.	YOY	19	1	.	.
PUMPKINSEED	.	81	13	.	.
PUMPKINSEED	.	82	13	.	.
PUMPKINSEED	.	72	8	.	.
BLUEGILL	.	57	4	.	.
SITE: DESPLAINES LOCATION: 404A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 05JUN13:11:44 END DATE AND TIME: 05JUN13:11:49					
BLUNTNOSSE MINNOW	.	.	.	2	5
BLACKSTRIPE TOPMINNOW	.	.	.	1	1
PUMPKINSEED	.	55	4	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	56	4	.	.
SITE: DESPLAINES LOCATION: 405 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 05JUN13:11:27 END DATE AND TIME: 05JUN13:11:33					
SAND SHINER	.	.	.	3	4
BLUNTNOSSE MINNOW	.	.	.	1	2
FATHEAD MINNOW	.	.	.	1	1
SITE: DESPLAINES LOCATION: 408 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 05JUN13:11:05 END DATE AND TIME: 05JUN13:11:14					
BLUNTNOSSE MINNOW	.	.	.	23	75
PUMPKINSEED	.	73	10	.	.
PUMPKINSEED	.	57	4	.	.
PUMPKINSEED	.	56	4	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	44	2	.	.
BLUEGILL	.	43	2	.	.
BLUEGILL	.	55	3	.	.
REDEAR SUNFISH	.	67	6	.	.
NORTHERN SUNFISH	.	61	5	.	.
Lepomis HYBRID	.	.	.	1	3
Lepomis HYBRID	.	.	.	1	9
SITE: DESPLAINES LOCATION: 412A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 06JUN13:10:51 END DATE AND TIME: 06JUN13:10:58					
BLUEGILL	.	99	23	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	69	7	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	54	3	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	47	2	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	47	2	.	.
BLUEGILL	.	76	9	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	65	6	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	63	5	.	.
LARGEMOUTH BASS	YOY	23	.	.	.
LARGEMOUTH BASS	YOY	26	.	.	.
LARGEMOUTH BASS	YOY	27	.	.	.
LARGEMOUTH BASS	YOY	29	.	.	.
LARGEMOUTH BASS	YOY	27	.	.	.
LARGEMOUTH BASS	YOY	25	.	.	.
LARGEMOUTH BASS	YOY	26	.	.	2

SITE: DESPLAINES LOCATION: 414 GEAR: SEINE MESOHABITAT:
 START DATE AND TIME: 06JUN13:11:05 END DATE AND TIME: 06JUN13:11:15

BLACKSTRIPE TOPMINNOW	.	.	.	4	9
GREEN SUNFISH	.	80	11	.	.
PUMPKINSEED	.	67	7	.	.
PUMPKINSEED	.	75	9	.	.
ORANGESPOTTED SUNFISH	.	56	3	.	.
ORANGESPOTTED SUNFISH	.	55	4	.	.
ORANGESPOTTED SUNFISH	.	66	6	.	.
ORANGESPOTTED SUNFISH	.	57	4	.	.
ORANGESPOTTED SUNFISH	.	80	12	.	.
ORANGESPOTTED SUNFISH	.	45	2	.	.
ORANGESPOTTED SUNFISH	.	80	12	.	.
ORANGESPOTTED SUNFISH	.	48	3	.	.
ORANGESPOTTED SUNFISH	.	69	7	.	.
ORANGESPOTTED SUNFISH	.	45	2	.	.
ORANGESPOTTED SUNFISH	.	46	2	.	.
ORANGESPOTTED SUNFISH	.	48	2	.	.
ORANGESPOTTED SUNFISH	.	83	13	.	.
ORANGESPOTTED SUNFISH	.	72	9	.	.
ORANGESPOTTED SUNFISH	.	70	7	.	.
ORANGESPOTTED SUNFISH	.	68	6	.	.
ORANGESPOTTED SUNFISH	.	56	4	.	.
ORANGESPOTTED SUNFISH	.	69	7	.	.
ORANGESPOTTED SUNFISH	.	77	10	.	.
ORANGESPOTTED SUNFISH	.	88	16	.	.
ORANGESPOTTED SUNFISH	.	86	16	.	.
ORANGESPOTTED SUNFISH	.	77	10	.	.
ORANGESPOTTED SUNFISH	.	82	13	.	.
ORANGESPOTTED SUNFISH	.	84	12	.	.
ORANGESPOTTED SUNFISH	.	72	9	.	.
ORANGESPOTTED SUNFISH	.	44	2	.	.
ORANGESPOTTED SUNFISH	.	73	9	.	.
ORANGESPOTTED SUNFISH	.	80	11	.	.
ORANGESPOTTED SUNFISH	.	74	10	.	.
ORANGESPOTTED SUNFISH	.	71	8	.	.
ORANGESPOTTED SUNFISH	.	.	.	2	15
BLUEGILL	.	57	4	.	.
BLUEGILL	.	33	1	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	153	79	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	49	3	.	.
BLUEGILL	.	98	22	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	92	16	.	.
BLUEGILL	.	98	21	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	57	2	.	.
BLUEGILL	.	50	2	.	.
BLUEGILL	.	42	2	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	42	1	.	.
BLUEGILL	.	128	43	.	.
BLUEGILL	.	45	2	.	.
BLUEGILL	.	45	2	.	.
BLUEGILL	.	47	2	.	.
BLUEGILL	.	47	2	.	.
BLUEGILL	.	42	2	.	.
BLUEGILL	.	.	.	29	45
BLUEGILL	.	.	.	1	27
NORTHERN SUNFISH	.	62	5	.	.
NORTHERN SUNFISH	.	50	3	.	.
NORTHERN SUNFISH	.	52	3	.	.
NORTHERN SUNFISH	.	49	3	.	.
NORTHERN SUNFISH	.	51	3	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

NORTHERN SUNFISH	.	48	3	.	.
NORTHERN SUNFISH	.	41	2	.	.
NORTHERN SUNFISH	.	41	2	.	.
SITE: DESPLAINES LOCATION: 418		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 06JUN13:11:57		END DATE AND TIME: 06JUN13:12:03			
GREEN SUNFISH	.	58	5	.	.
BLUEGILL	.	71	8	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	50	3	.	.
SITE: DESPLAINES LOCATION: 419A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 06JUN13:11:32		END DATE AND TIME: 06JUN13:11:36			
BLUNTNOSE MINNOW	.	.	.	8	14
BLUEGILL	.	47	2	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	56	4	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	56	4	.	.
BLUEGILL	.	124	39	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	87	15	.	.
LARGEMOUTH BASS	YOY	24	.	.	.
LARGEMOUTH BASS	YOY	30	.	.	.
LARGEMOUTH BASS	YOY	28	.	.	.
LARGEMOUTH BASS	YOY	27	.	.	.
LARGEMOUTH BASS	YOY	25	.	.	1
SITE: DESPLAINES LOCATION: 402		GEAR: ELECTRO		MESOHABITAT:	
START DATE AND TIME: 05JUN13:13:24		END DATE AND TIME: 05JUN13:13:49			
LONGNOSE GAR	.	492	220	.	.
GIZZARD SHAD	.	296	240	.	.
GIZZARD SHAD	.	303	280	.	.
GIZZARD SHAD	.	318	350	.	.
COMMON CARP	.	665	5000	.	.
COMMON CARP	.	592	3040	.	.
SMALLMOUTH BUFFALO	.	448	1530	.	.
SMALLMOUTH BUFFALO	.	488	1580	.	.
SHORTHEAD REDHORSE	.	302	320	.	.
SHORTHEAD REDHORSE	.	361	420	.	.
YELLOW BULLHEAD	.	127	25	.	.
WHITE BASS	.	360	520	.	.
ROCK BASS	.	103	21	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	102	21	.	.
GREEN SUNFISH	.	81	11	.	.
GREEN SUNFISH	.	102	28	.	.
GREEN SUNFISH	.	92	17	.	.
GREEN SUNFISH	.	86	15	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	57	4	.	.
BLUEGILL	.	158	74	.	.
BLUEGILL	.	130	45	.	.
BLUEGILL	.	114	28	.	.
BLUEGILL	.	113	30	.	.
BLUEGILL	.	114	27	.	.
BLUEGILL	.	106	25	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	68	7	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	74	9	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	77	10	.	.
BLUEGILL	.	77	8	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	77	8	.	.
BLUEGILL	.	58	4	.	.
NORTHERN SUNFISH	.	66	6	.	.
Lepomis HYBRID	.	.	.	4	71
LARGEMOUTH BASS	.	294	430	.	.
LARGEMOUTH BASS	.	310	430	.	.
LARGEMOUTH BASS	.	288	320	.	.
LARGEMOUTH BASS	.	242	180	.	.
FRESHWATER DRUM	.	443	1270	.	.
FRESHWATER DRUM	.	522	2180	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

SITE: DESPLAINES	LOCATION: 402A	GEAR: ELECTRO	MESOHABITAT: MAIN CHANNEL BORDER		
START DATE AND TIME: 05JUN13:14:37		END DATE AND TIME: 05JUN13:15:16			
GIZZARD SHAD	.	322	380	.	.
GIZZARD SHAD	.	292	290	.	.
GIZZARD SHAD	.	272	210	.	.
GIZZARD SHAD	.	191	46	.	.
COMMON CARP	.	428	1280	.	.
COMMON CARP	.	491	1850	.	.
GHOST SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	10	30
RIVER CARPSUCKER	.	418	1180	.	.
RIVER CARPSUCKER	.	420	1130	.	.
RIVER CARPSUCKER	.	471	1810	.	.
RIVER CARPSUCKER	.	418	1020	.	.
SMALLMOUTH BUFFALO	.	605	4250	.	.
SMALLMOUTH BUFFALO	.	481	1480	.	.
SMALLMOUTH BUFFALO	.	545	2480	.	.
SILVER REDHORSE	.	408	810	.	.
CHANNEL CATFISH	.	573	1480	.	.
CHANNEL CATFISH	.	565	2060	.	.
GREEN SUNFISH	.	138	54	.	.
GREEN SUNFISH	.	89	17	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	77	10	.	.
GREEN SUNFISH	.	58	4	.	.
GREEN SUNFISH	.	81	15	.	.
GREEN SUNFISH	.	69	7	.	.
GREEN SUNFISH	.	69	8	.	.
GREEN SUNFISH	.	77	12	.	.
GREEN SUNFISH	.	85	15	.	.
GREEN SUNFISH	.	77	10	.	.
GREEN SUNFISH	.	80	14	.	.
GREEN SUNFISH	.	85	14	.	.
GREEN SUNFISH	.	57	5	.	.
GREEN SUNFISH	.	74	8	.	.
GREEN SUNFISH	.	61	5	.	.
BLUEGILL	.	134	48	.	.
BLUEGILL	.	123	44	.	.
BLUEGILL	.	123	33	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	42	1	.	.
BLUEGILL	.	37	1	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	47	2	.	.
Lepomis HYBRID	.	153	84	.	.
Lepomis HYBRID	.	.	.	2	17
LARGEMOUTH BASS	.	282	330	.	.
LARGEMOUTH BASS	.	303	390	.	.
LARGEMOUTH BASS	.	279	290	.	.
LARGEMOUTH BASS	.	266	260	.	.
LARGEMOUTH BASS	.	220	140	.	.
LARGEMOUTH BASS	.	258	245	.	.
LARGEMOUTH BASS	.	191	82	.	.
LARGEMOUTH BASS	.	258	220	.	.
LARGEMOUTH BASS	.	188	74	.	.
LARGEMOUTH BASS	.	202	92	.	.
LARGEMOUTH BASS	.	133	32	.	.
LARGEMOUTH BASS	.	173	64	.	.
FRESHWATER DRUM	.	392	770	.	.
ROUND GOBY	.	71	5	.	.
SITE: DESPLAINES	LOCATION: 403	GEAR: ELECTRO	MESOHABITAT: MAIN CHANNEL BORDER		
START DATE AND TIME: 05JUN13:16:18		END DATE AND TIME: 05JUN13:16:49			
LONGNOSE GAR	.	1085	4020	.	.
GIZZARD SHAD	.	274	210	.	.
GIZZARD SHAD	.	332	290	.	.
GIZZARD SHAD	.	314	290	.	.
GIZZARD SHAD	.	266	210	.	.
GIZZARD SHAD	.	315	310	.	.
GIZZARD SHAD	.	293	240	.	.
GIZZARD SHAD	.	248	140	.	.
GIZZARD SHAD	.	222	130	.	.
COMMON CARP	.	531	2020	.	.
EMERALD SHINER	.	.	.	8	19
SPOTFIN SHINER	.	.	.	2	14
MIMIC SHINER	.	.	.	2	3
BLUNTNOSE MINNOW	.	.	.	1	2
SMALLMOUTH BUFFALO	.	358	740	.	.
CHANNEL CATFISH	.	574	2700	.	.
CHANNEL CATFISH	.	472	1010	.	.
CHANNEL CATFISH	.	443	780	.	.
CHANNEL CATFISH	.	508	1300	.	.
CHANNEL CATFISH	.	471	1180	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	87	13	.	.
GREEN SUNFISH	.	103	25	.	.
GREEN SUNFISH	.	90	15	.	.
GREEN SUNFISH	.	103	24	.	.
GREEN SUNFISH	.	107	25	.	.
GREEN SUNFISH	.	93	15	.	.
GREEN SUNFISH	.	84	12	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	91	15	.	.
GREEN SUNFISH	.	116	26	.	.
GREEN SUNFISH	.	106	26	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	94	17	.	.
GREEN SUNFISH	.	101	19	.	.
GREEN SUNFISH	.	96	17	.	.
GREEN SUNFISH	.	135	38	.	.
PUMPKINSEED	.	114	28	.	.
PUMPKINSEED	.	114	28	.	.
PUMPKINSEED	.	58	4	.	.
PUMPKINSEED	.	62	5	.	.
PUMPKINSEED	.	75	9	.	.
PUMPKINSEED	.	67	7	.	.
PUMPKINSEED	.	70	7	.	.
BLUEGILL	.	121	32	.	.
BLUEGILL	.	131	48	.	.
BLUEGILL	.	124	38	.	.
BLUEGILL	.	126	43	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	82	10	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	67	5	.	.
BLUEGILL	.	40	1	.	.
BLUEGILL	.	34	1	.	.
BLUEGILL	.	40	1	.	.
BLUEGILL	.	79	9	.	.
BLUEGILL	.	63	4	.	.
BLUEGILL	.	86	12	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	78	8	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	.	.	3	6
BLUEGILL	.	.	.	1	2
NORTHERN SUNFISH	.	52	3	.	.
Lepomis HYBRID	.	151	62	.	.
Lepomis HYBRID	.	.	.	6	135
SMALLMOUTH BASS	.	187	85	.	.
LARGEMOUTH BASS	.	282	310	.	.
LARGEMOUTH BASS	.	219	130	.	.
LARGEMOUTH BASS	.	256	210	.	.
LARGEMOUTH BASS	.	202	105	.	.
LARGEMOUTH BASS	.	211	125	.	.
LARGEMOUTH BASS	.	186	105	.	.
LARGEMOUTH BASS	.	151	42	.	.
LARGEMOUTH BASS	.	161	42	.	.
LARGEMOUTH BASS	.	145	39	.	.

SITE: DESPLAINES LOCATION: 403A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 05JUN13:17:52 END DATE AND TIME: 05JUN13:18:18

GIZZARD SHAD	.	258	190	.	.
GIZZARD SHAD	.	230	140	.	.
COMMON CARP	.	509	1940	.	.
BLUNTNOSE MINNOW	.	.	.	6	11
CHANNEL CATFISH	.	495	1350	.	.
GREEN SUNFISH	.	115	31	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	90	15	.	.
GREEN SUNFISH	.	91	14	.	.
GREEN SUNFISH	.	177	110	.	.
PUMPKINSEED	.	68	6	.	.
PUMPKINSEED	.	74	9	.	.
BLUEGILL	.	125	38	.	.
BLUEGILL	.	124	35	.	.
BLUEGILL	.	110	25	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	130	44	.	.
BLUEGILL	.	120	32	.	.
BLUEGILL	.	108	25	.	.
BLUEGILL	.	122	37	.	.
BLUEGILL	.	146	60	.	.
BLUEGILL	.	154	72	.	.
BLUEGILL	.	124	38	.	.
BLUEGILL	.	117	30	.	.
BLUEGILL	.	67	5	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	63	4	.	.
BLUEGILL	.	87	12	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	49	2	.	.
BLUEGILL	.	112	29	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	94	15	.	.
BLUEGILL	.	94	17	.	.
BLUEGILL	.	84	11	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	77	8	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	74	7	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	.	.	2	38
BLUEGILL	.	.	.	24	153
Lepomis HYBRID	.	.	.	3	19
LARGEMOUTH BASS	.	390	790	.	.
LARGEMOUTH BASS	.	364	840	.	.
LARGEMOUTH BASS	.	268	260	.	.
LARGEMOUTH BASS	.	307	400	.	.
FRESHWATER DRUM	.	478	1650	.	.
FRESHWATER DRUM	.	540	2310	.	.
FRESHWATER DRUM	.	223	100	.	.

SITE: DESPLAINES LOCATION: 404A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 05JUN13:19:08 END DATE AND TIME: 05JUN13:19:40

GIZZARD SHAD	.	342	400	.	.
GIZZARD SHAD	.	248	220	.	.
GIZZARD SHAD	.	245	210	.	.
GIZZARD SHAD	.	290	400	.	.
GIZZARD SHAD	.	148	28	.	.
GIZZARD SHAD	.	183	50	.	.
COMMON CARP	.	502	1500	.	.
BLUNTNOSSE MINNOW	.	.	.	9	18
QUILLBACK	.	244	210	.	.
SMALLMOUTH BUFFALO	.	.	.	1	1060
CHANNEL CATFISH	.	604	2500	.	.
CHANNEL CATFISH	.	458	970	.	.
GREEN SUNFISH	.	128	41	.	.
GREEN SUNFISH	.	106	26	.	.
GREEN SUNFISH	.	85	15	.	.
GREEN SUNFISH	.	103	24	.	.
GREEN SUNFISH	.	87	15	.	.
GREEN SUNFISH	.	87	16	.	.
GREEN SUNFISH	.	106	28	.	.
GREEN SUNFISH	.	106	29	.	.
GREEN SUNFISH	.	82	13	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	93	20	.	.
GREEN SUNFISH	.	107	27	.	.
PUMPKINSEED	.	75	9	.	.
PUMPKINSEED	.	65	5	.	.
PUMPKINSEED	.	72	8	.	.
BLUEGILL	.	148	68	.	.
BLUEGILL	.	136	52	.	.
BLUEGILL	.	132	45	.	.
BLUEGILL	.	131	42	.	.
BLUEGILL	.	127	42	.	.
BLUEGILL	.	120	41	.	.
BLUEGILL	.	114	29	.	.
BLUEGILL	.	138	51	.	.
BLUEGILL	.	129	41	.	.
BLUEGILL	.	125	46	.	.
BLUEGILL	.	128	47	.	.
BLUEGILL	.	181	130	.	.
BLUEGILL	.	56	2	.	.
BLUEGILL	.	128	46	.	.
BLUEGILL	.	87	13	.	.
BLUEGILL	.	105	25	.	.
BLUEGILL	.	84	13	.	.
BLUEGILL	.	91	14	.	.
BLUEGILL	.	70	7	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	66	6	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	67	5	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	.	.	17	130
NORTHERN SUNFISH	.	65	6	.	.
Lepomis HYBRID	.	168	114	.	.
Lepomis HYBRID	.	.	.	1	10
LARGEMOUTH BASS	.	198	85	.	.
FRESHWATER DRUM	.	391	990	.	.

SITE: DESPLAINES LOCATION: 405 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 06JUN13:09:21 END DATE AND TIME: 06JUN13:09:57

GIZZARD SHAD	.	217	82	.	.
GIZZARD SHAD	.	200	82	.	.
GIZZARD SHAD	.	178	42	.	.
GIZZARD SHAD	.	196	82	.	.
GIZZARD SHAD	.	133	26	.	.
GIZZARD SHAD	.	147	34	.	.
SPOTFIN SHINER	.	.	.	1	2
BLUNTNOSE MINNOW	.	.	.	5	16
YELLOW BULLHEAD	.	200	125	.	.
YELLOW BULLHEAD	.	278	330	.	.
CHANNEL CATFISH	.	562	1820	.	.
CHANNEL CATFISH	.	531	1530	.	.
CHANNEL CATFISH	.	481	1520	.	.
CHANNEL CATFISH	.	565	2190	.	.
GREEN SUNFISH	.	122	38	.	.
GREEN SUNFISH	.	97	19	.	.
GREEN SUNFISH	.	71	8	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	76	10	.	.
GREEN SUNFISH	.	102	23	.	.
GREEN SUNFISH	.	90	17	.	.
GREEN SUNFISH	.	77	9	.	.
GREEN SUNFISH	.	78	9	.	.
GREEN SUNFISH	.	77	10	.	.
GREEN SUNFISH	.	81	11	.	.
GREEN SUNFISH	.	73	9	.	.
GREEN SUNFISH	.	44	2	.	.
GREEN SUNFISH	.	57	3	.	.
GREEN SUNFISH	.	52	3	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	55	4	.	.
GREEN SUNFISH	.	54	3	.	.
GREEN SUNFISH	.	92	17	.	.
GREEN SUNFISH	.	86	12	.	.
GREEN SUNFISH	.	57	4	.	.
GREEN SUNFISH	.	51	3	.	.
GREEN SUNFISH	.	47	2	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	50	2	.	.
GREEN SUNFISH	.	45	2	.	.
GREEN SUNFISH	.	76	9	.	.
GREEN SUNFISH	.	74	8	.	.
GREEN SUNFISH	.	.	.	3	12
GREEN SUNFISH	YOY	36	1	.	.
PUMPKINSEED	.	117	38	.	.
PUMPKINSEED	.	69	6	.	.
BLUEGILL	.	183	125	.	.
BLUEGILL	.	157	82	.	.
BLUEGILL	.	158	96	.	.
BLUEGILL	.	122	38	.	.
BLUEGILL	.	124	31	.	.
BLUEGILL	.	147	56	.	.
BLUEGILL	.	122	31	.	.
BLUEGILL	.	105	21	.	.
BLUEGILL	.	93	17	.	.
BLUEGILL	.	115	33	.	.
BLUEGILL	.	107	24	.	.
BLUEGILL	.	117	34	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	90	13	.	.
BLUEGILL	.	92	15	.	.
BLUEGILL	.	64	6	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	47	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	64	5	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	63	4	.	.
BLUEGILL	.	89	15	.	.
BLUEGILL	.	87	14	.	.
BLUEGILL	.	88	13	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	.	.	14	64
BLUEGILL	.	.	.	12	299
NORTHERN SUNFISH	.	96	22	.	.
NORTHERN SUNFISH	.	85	16	.	.
NORTHERN SUNFISH	.	93	23	.	.
NORTHERN SUNFISH	.	103	30	.	.
NORTHERN SUNFISH	.	92	19	.	.
NORTHERN SUNFISH	.	60	5	.	.
NORTHERN SUNFISH	.	65	6	.	.
NORTHERN SUNFISH	.	70	9	.	.
NORTHERN SUNFISH	.	60	5	.	.
Lepomis HYBRID	.	126	38	.	.
Lepomis HYBRID	.	149	64	.	.
Lepomis HYBRID	.	152	95	.	.
Lepomis HYBRID	.	131	54	.	.
Lepomis HYBRID	.	.	.	6	90
LARGEMOUTH BASS	.	344	660	.	.
LARGEMOUTH BASS	.	272	320	.	.
LARGEMOUTH BASS	.	193	90	.	.
LARGEMOUTH BASS	.	252	215	.	.
LARGEMOUTH BASS	.	242	220	.	.
LARGEMOUTH BASS	.	274	370	.	.
LARGEMOUTH BASS	.	266	290	.	.
LARGEMOUTH BASS	.	290	430	.	.
LARGEMOUTH BASS	.	254	270	.	.
LARGEMOUTH BASS	.	265	280	.	.
LARGEMOUTH BASS	.	265	255	.	.
LARGEMOUTH BASS	.	272	320	.	.
LARGEMOUTH BASS	.	206	120	.	.
LARGEMOUTH BASS	.	215	135	.	.

SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 06JUN13:07:44 END DATE AND TIME: 06JUN13:08:22

GIZZARD SHAD	.	332	300	.	.
GIZZARD SHAD	.	328	380	.	.
GIZZARD SHAD	.	363	380	.	.
GIZZARD SHAD	.	308	270	.	.
GIZZARD SHAD	.	308	305	.	.
GIZZARD SHAD	.	298	240	.	.
GIZZARD SHAD	.	321	305	.	.
GIZZARD SHAD	.	332	335	.	.
GIZZARD SHAD	.	322	290	.	.
GIZZARD SHAD	.	288	180	.	.
GIZZARD SHAD	.	243	105	.	.
GIZZARD SHAD	.	137	25	.	.
GIZZARD SHAD	.	148	35	.	.
COMMON CARP	.	520	2200	.	.
COMMON CARP	.	670	3840	.	.
COMMON CARP	.	520	1720	.	.
COMMON CARP	.	551	1930	.	.
GOLDEN SHINER	.	.	.	1	24
EMERALD SHINER	.	.	.	2	9
BLUNTNose MINNOW	.	.	.	15	41
YELLOW BULLHEAD	.	288	390	.	.
YELLOW BULLHEAD	.	204	135	.	.
YELLOW BULLHEAD	.	173	64	.	.
YELLOW BULLHEAD	.	151	54	.	.
GREEN SUNFISH	.	135	62	.	.
GREEN SUNFISH	.	163	108	.	.
GREEN SUNFISH	.	153	72	.	.
GREEN SUNFISH	.	134	52	.	.
GREEN SUNFISH	.	138	58	.	.
GREEN SUNFISH	.	141	54	.	.
GREEN SUNFISH	.	115	32	.	.
GREEN SUNFISH	.	53	4	.	.
GREEN SUNFISH	.	42	2	.	.
GREEN SUNFISH	.	54	4	.	.
GREEN SUNFISH	.	70	7	.	.
GREEN SUNFISH	.	86	14	.	.
GREEN SUNFISH	.	87	17	.	.
GREEN SUNFISH	.	82	11	.	.
GREEN SUNFISH	.	62	5	.	.
GREEN SUNFISH	.	73	8	.	.
GREEN SUNFISH	.	116	32	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	77	11	.	.
GREEN SUNFISH	.	76	8	.	.
GREEN SUNFISH	.	76	10	.	.
GREEN SUNFISH	.	74	10	.	.
GREEN SUNFISH	.	114	26	.	.
GREEN SUNFISH	.	110	29	.	.
GREEN SUNFISH	.	48	3	.	.
GREEN SUNFISH	.	54	4	.	.
GREEN SUNFISH	.	57	4	.	.
GREEN SUNFISH	.	63	5	.	.
GREEN SUNFISH	.	61	5	.	.
GREEN SUNFISH	.	95	20	.	.
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	.	.	5	40
BLUEGILL	.	158	88	.	.
BLUEGILL	.	128	46	.	.
BLUEGILL	.	119	35	.	.
BLUEGILL	.	109	19	.	.
BLUEGILL	.	112	27	.	.
BLUEGILL	.	122	37	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	116	28	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	76	7	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	103	22	.	.
BLUEGILL	.	113	24	.	.
BLUEGILL	.	86	12	.	.
BLUEGILL	.	105	24	.	.
BLUEGILL	.	138	45	.	.
BLUEGILL	.	109	21	.	.
BLUEGILL	.	93	15	.	.
BLUEGILL	.	88	13	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	.	.	35	302
NORTHERN SUNFISH	.	92	21	.	.
NORTHERN SUNFISH	.	46	2	.	.
Lepomis HYBRID	.	161	105	.	.
Lepomis HYBRID	.	.	.	23	387
Lepomis HYBRID	YOY	.	.	1	2
LARGEMOUTH BASS	.	408	880	.	.
LARGEMOUTH BASS	.	332	540	.	.
LARGEMOUTH BASS	.	244	195	.	.
LARGEMOUTH BASS	.	362	880	.	.
LARGEMOUTH BASS	.	274	280	.	.
LARGEMOUTH BASS	.	247	210	.	.
LARGEMOUTH BASS	.	312	370	.	.
LARGEMOUTH BASS	.	222	135	.	.
LARGEMOUTH BASS	.	242	195	.	.
LARGEMOUTH BASS	.	232	195	.	.
LARGEMOUTH BASS	.	224	160	.	.
LARGEMOUTH BASS	.	155	48	.	.
LARGEMOUTH BASS	.	153	39	.	.
LARGEMOUTH BASS	.	132	29	.	.
LARGEMOUTH BASS	.	105	14	.	.
FRESHWATER DRUM	.	422	1100	.	.

SITE: DESPLAINES LOCATION: 412A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 06JUN13:15:14 END DATE AND TIME: 06JUN13:15:40

GIZZARD SHAD	.	254	195	.	.
GIZZARD SHAD	.	260	210	.	.
GIZZARD SHAD	.	238	140	.	.
GIZZARD SHAD	.	124	26	.	.
GIZZARD SHAD	.	143	31	.	.
BLUNTNOST MINNOW	.	.	.	1	5
SMALLMOUTH BUFFALO	.	151	44	.	.
GREEN SUNFISH	.	56	4	.	.
GREEN SUNFISH	.	55	4	.	.
GREEN SUNFISH	.	55	4	.	.
BLUEGILL	.	137	52	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	115	32	.	.
BLUEGILL	.	80	9	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	96	19	.	.
BLUEGILL	.	68	6	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	70	7	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	112	30	.	.
BLUEGILL	.	104	22	.	.
BLUEGILL	.	94	18	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	95	16	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	105	23	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	107	28	.	.
BLUEGILL	.	115	27	.	.
BLUEGILL	.	94	19	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	102	21	.	.
BLUEGILL	.	97	19	.	.
BLUEGILL	.	.	.	5	134
BLUEGILL	.	.	.	4	13
LARGEMOUTH BASS	.	272	220	.	.

SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 06JUN13:16:02 END DATE AND TIME: 06JUN13:16:43

GIZZARD SHAD	.	243	170	.	.
GIZZARD SHAD	.	223	130	.	.
GIZZARD SHAD	.	215	125	.	.
GOLDEN SHINER	.	198	82	.	.
SPOTFIN SHINER	.	.	.	3	6
BLUNTNOSE MINNOW	.	.	.	1	4
BULLHEAD MINNOW	.	.	.	1	1
SMALLMOUTH BUFFALO	.	570	2640	.	.
SMALLMOUTH BUFFALO	.	460	2050	.	.
YELLOW BULLHEAD	.	153	35	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	1	3
GREEN SUNFISH	.	137	71	.	.
GREEN SUNFISH	.	90	20	.	.
GREEN SUNFISH	.	90	19	.	.
GREEN SUNFISH	.	106	34	.	.
GREEN SUNFISH	.	113	37	.	.
GREEN SUNFISH	.	85	13	.	.
GREEN SUNFISH	.	70	8	.	.
GREEN SUNFISH	.	68	6	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	83	12	.	.
GREEN SUNFISH	.	67	7	.	.
GREEN SUNFISH	.	57	4	.	.
PUMPKINSEED	.	127	51	.	.
PUMPKINSEED	.	93	19	.	.
PUMPKINSEED	.	78	10	.	.
PUMPKINSEED	.	84	15	.	.
ORANGESPOTTED SUNFISH	.	79	10	.	.
ORANGESPOTTED SUNFISH	.	83	13	.	.
ORANGESPOTTED SUNFISH	.	83	13	.	.
ORANGESPOTTED SUNFISH	.	81	11	.	.
ORANGESPOTTED SUNFISH	.	69	8	.	.
ORANGESPOTTED SUNFISH	.	48	2	.	.
ORANGESPOTTED SUNFISH	.	83	13	.	.
ORANGESPOTTED SUNFISH	.	71	8	.	.
ORANGESPOTTED SUNFISH	.	48	2	.	.
ORANGESPOTTED SUNFISH	.	56	3	.	.
ORANGESPOTTED SUNFISH	.	56	3	.	.
ORANGESPOTTED SUNFISH	.	48	2	.	.
BLUEGILL	.	.	.	43	1380
BLUEGILL	.	.	.	24	780
BLUEGILL	.	163	80	.	.
BLUEGILL	.	144	62	.	.
BLUEGILL	.	49	1	.	.
BLUEGILL	.	37	1	.	.
BLUEGILL	.	52	2	.	.
BLUEGILL	.	99	20	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	151	85	.	.
BLUEGILL	.	153	75	.	.
BLUEGILL	.	113	21	.	.
BLUEGILL	.	127	52	.	.
BLUEGILL	.	113	33	.	.
BLUEGILL	.	113	30	.	.
BLUEGILL	.	102	22	.	.
BLUEGILL	.	117	37	.	.
BLUEGILL	.	109	21	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	113	27	.	.
BLUEGILL	.	153	82	.	.
BLUEGILL	.	157	88	.	.
BLUEGILL	.	105	18	.	.
BLUEGILL	.	118	24	.	.
BLUEGILL	.	131	51	.	.
BLUEGILL	.	113	28	.	.
BLUEGILL	.	134	51	.	.
BLUEGILL	.	132	49	.	.
BLUEGILL	.	128	41	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	82	10	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	.	.	5	340
BLUEGILL	.	.	.	7	275
BLUEGILL	.	.	.	28	732
BLUEGILL	.	.	.	64	353
BLUEGILL	.	43	1	.	.
Lepomis HYBRID	.	154	100	.	.
Lepomis HYBRID	.	158	75	.	.
LARGEMOUTH BASS	.	280	320	.	.
LARGEMOUTH BASS	.	272	280	.	.
LARGEMOUTH BASS	.	262	280	.	.
LARGEMOUTH BASS	.	232	180	.	.
LARGEMOUTH BASS	.	384	900	.	.
LARGEMOUTH BASS	.	336	615	.	.
LARGEMOUTH BASS	.	213	120	.	.
LARGEMOUTH BASS	.	152	45	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 06JUN13:12:25 END DATE AND TIME: 06JUN13:13:02

GIZZARD SHAD	.	294	270	.	.
GIZZARD SHAD	.	268	170	.	.
GIZZARD SHAD	.	273	190	.	.
GIZZARD SHAD	.	222	130	.	.
GIZZARD SHAD	.	218	82	.	.
GIZZARD SHAD	.	226	90	.	.
GIZZARD SHAD	.	151	39	.	.
GIZZARD SHAD	.	174	38	.	.
GIZZARD SHAD	.	132	21	.	.
GIZZARD SHAD	.	181	54	.	.
GIZZARD SHAD	.	138	21	.	.
GIZZARD SHAD	.	133	25	.	.
GIZZARD SHAD	.	136	25	.	.
SPOTFIN SHINER	.	.	.	1	3
SPOTFIN SHINER	.	.	.	1	3
BULLHEAD MINNOW	.	.	.	1	3
SMALLMOUTH BUFFALO	.	510	2100	.	.
SHORHEAD REDHORSE	.	371	470	.	.
CHANNEL CATFISH	.	631	2790	.	.
YELLOW BASS	.	194	115	.	.
GREEN SUNFISH	.	143	54	.	.
GREEN SUNFISH	.	136	55	.	.
GREEN SUNFISH	.	121	38	.	.
GREEN SUNFISH	.	131	49	.	.
GREEN SUNFISH	.	123	46	.	.
GREEN SUNFISH	.	87	18	.	.
GREEN SUNFISH	.	93	20	.	.
GREEN SUNFISH	.	55	4	.	.
GREEN SUNFISH	.	73	10	.	.
GREEN SUNFISH	.	77	11	.	.
GREEN SUNFISH	.	94	20	.	.
GREEN SUNFISH	.	70	7	.	.
GREEN SUNFISH	.	60	5	.	.
GREEN SUNFISH	.	92	19	.	.
GREEN SUNFISH	.	95	19	.	.
GREEN SUNFISH	.	110	35	.	.
GREEN SUNFISH	.	106	26	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	107	28	.	.
GREEN SUNFISH	.	67	7	.	.
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	72	7	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	71	8	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	80	13	.	.
GREEN SUNFISH	.	77	12	.	.
GREEN SUNFISH	.	46	2	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	.	.	15	139
PUMPKINSEED	.	79	12	.	.
ORANGESPOTTED SUNFISH	.	75	10	.	.
BLUEGILL	.	153	68	.	.
BLUEGILL	.	176	120	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	148	58	.	.
BLUEGILL	.	130	44	.	.
BLUEGILL	.	96	14	.	.
BLUEGILL	.	121	38	.	.
BLUEGILL	.	96	20	.	.
BLUEGILL	.	71	6	.	.
BLUEGILL	.	121	38	.	.
BLUEGILL	.	121	34	.	.
BLUEGILL	.	113	22	.	.
BLUEGILL	.	152	54	.	.
BLUEGILL	.	132	42	.	.
BLUEGILL	.	123	44	.	.
BLUEGILL	.	82	7	.	.
BLUEGILL	.	62	2	.	.
BLUEGILL	.	61	3	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	168	85	.	.
BLUEGILL	.	148	75	.	.
BLUEGILL	.	113	29	.	.
BLUEGILL	.	61	3	.	.
BLUEGILL	.	42	1	.	.
BLUEGILL	.	141	58	.	.
BLUEGILL	.	113	30	.	.
BLUEGILL	.	91	12	.	.
BLUEGILL	.	121	32	.	.
BLUEGILL	.	132	38	.	.
BLUEGILL	.	161	65	.	.
BLUEGILL	.	137	59	.	.
BLUEGILL	.	131	44	.	.
BLUEGILL	.	141	54	.	.
BLUEGILL	.	128	42	.	.
BLUEGILL	.	.	.	40	930
BLUEGILL	.	.	.	26	640
BLUEGILL	.	.	.	36	1780
BLUEGILL	.	.	.	6	115
BLUEGILL	.	.	.	15	190
BLUEGILL	.	.	.	1	21
BLUEGILL	.	.	.	54	931
Lepomis HYBRID	.	154	74	.	.
Lepomis HYBRID	.	121	39	.	.
Lepomis HYBRID	.	.	.	5	136
LARGEMOUTH BASS	.	378	720	.	.
LARGEMOUTH BASS	.	253	270	.	.
LARGEMOUTH BASS	.	374	690	.	.
LARGEMOUTH BASS	.	420	1100	.	.
LARGEMOUTH BASS	.	261	280	.	.
LARGEMOUTH BASS	.	243	190	.	.
LARGEMOUTH BASS	.	232	170	.	.
LARGEMOUTH BASS	.	135	28	.	.
LARGEMOUTH BASS	.	342	670	.	.
LARGEMOUTH BASS	.	158	36	.	.
LARGEMOUTH BASS	.	154	41	.	.
FRESHWATER DRUM	.	380	750	.	.
FRESHWATER DRUM	.	391	880	.	.
FRESHWATER DRUM	.	271	230	.	.
FRESHWATER DRUM	.	384	720	.	.
FRESHWATER DRUM	.	291	310	.	.

SITE: DESPLAINES LOCATION: 419A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 06JUN13:14:15 END DATE AND TIME: 06JUN13:14:45

GIZZARD SHAD	.	230	120	.	.
GIZZARD SHAD	.	244	170	.	.
GIZZARD SHAD	.	205	100	.	.
SPOTFIN SHINER	.	.	.	2	6
GREEN SUNFISH	.	164	95	.	.
GREEN SUNFISH	.	61	5	.	.
GREEN SUNFISH	.	62	6	.	.
GREEN SUNFISH	.	88	17	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	93	19	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	66	7	.	.
BLUEGILL	.	157	78	.	.
BLUEGILL	.	132	44	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	52	2	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	99	20	.	.
BLUEGILL	.	100	23	.	.
BLUEGILL	.	112	29	.	.
BLUEGILL	.	99	21	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	----	-----	-----	-----	-----
BLUEGILL	.	71	7	.	.
BLUEGILL	.	80	12	.	.
BLUEGILL	.	93	16	.	.
BLUEGILL	.	90	13	.	.
BLUEGILL	.	98	21	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	71	6	.	.
BLUEGILL	.	101	21	.	.
BLUEGILL	.	98	24	.	.
BLUEGILL	.	126	47	.	.
BLUEGILL	.	117	35	.	.
BLUEGILL	.	110	25	.	.
BLUEGILL	.	100	20	.	.
BLUEGILL	.	51	3	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	114	30	.	.
BLUEGILL	.	.	.	1	24
SMALLMOUTH BASS	.	134	26	.	.
LARGEMOUTH BASS	.	281	380	.	.
LARGEMOUTH BASS	.	348	530	.	.
LARGEMOUTH BASS	.	271	310	.	.
LARGEMOUTH BASS	.	174	59	.	.
LARGEMOUTH BASS	.	213	120	.	.
SITE: SHIP CANAL LOCATION: 302A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 04JUN13:12:40 END DATE AND TIME: 04JUN13:12:45					
NO FISH	.	.	.	0	.
SITE: SHIP CANAL LOCATION: 304 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 04JUN13:15:52 END DATE AND TIME: 04JUN13:15:56					
PUMPKINSEED	.	66	7	.	.
PUMPKINSEED	.	73	8	.	.
BLUEGILL	.	61	4	.	.
YELLOW PERCH	.	81	5	.	.
SITE: SHIP CANAL LOCATION: 305 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 04JUN13:15:33 END DATE AND TIME: 04JUN13:15:40					
SPOTFIN SHINER	YOY	.	.	1	1
WHITE SUCKER	YOY	17	1	.	.
WHITE SUCKER	YOY	16	1	.	.
TADPOLE MADTOM	.	55	3	.	.
LARGEMOUTH BASS	YOY	20	1	.	.
ROUND GOBY	.	.	.	5	14
SITE: SHIP CANAL LOCATION: 306 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 05JUN13:07:30 END DATE AND TIME: 05JUN13:07:35					
NO FISH	.	.	.	0	.
SITE: SHIP CANAL LOCATION: 307 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 04JUN13:15:17 END DATE AND TIME: 04JUN13:15:23					
BLUEGILL	.	60	4	.	.
SITE: SHIP CANAL LOCATION: 301 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 04JUN13:10:08 END DATE AND TIME: 04JUN13:10:44					
GREEN SUNFISH	.	.	.	1	60
GREEN SUNFISH	.	101	15	.	.
SITE: SHIP CANAL LOCATION: 302 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 04JUN13:11:23 END DATE AND TIME: 04JUN13:11:53					
COMMON CARP	.	421	1060	.	.
BLUNTNOSSE MINNOW	.	76	5	.	.
GREEN SUNFISH	.	91	16	.	.
SITE: SHIP CANAL LOCATION: 302A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 04JUN13:13:01 END DATE AND TIME: 04JUN13:13:37					
GIZZARD SHAD	.	303	310	.	.
GIZZARD SHAD	.	374	520	.	.
GIZZARD SHAD	.	313	330	.	.
GIZZARD SHAD	.	108	13	.	.
GIZZARD SHAD	.	162	45	.	.
GIZZARD SHAD	.	126	22	.	.
GIZZARD SHAD	.	129	25	.	.
GIZZARD SHAD	.	109	15	.	.
GIZZARD SHAD	.	108	14	.	.
BLUNTNOSSE MINNOW	.	.	.	10	41
GREEN SUNFISH	.	114	36	.	.
GREEN SUNFISH	.	104	27	.	.
GREEN SUNFISH	.	87	17	.	.
GREEN SUNFISH	.	102	25	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	80	12	.	.
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	68	9	.	.
GREEN SUNFISH	.	68	7	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	62	6	.	.
GREEN SUNFISH	.	86	15	.	.
GREEN SUNFISH	.	65	7	.	.
GREEN SUNFISH	.	85	16	.	.
GREEN SUNFISH	.	74	10	.	.
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	75	11	.	.
GREEN SUNFISH	.	58	5	.	.
GREEN SUNFISH	.	64	7	.	.
GREEN SUNFISH	.	78	11	.	.
PUMPKINSEED	.	142	75	.	.
PUMPKINSEED	.	124	44	.	.
PUMPKINSEED	.	73	8	.	.
PUMPKINSEED	.	58	4	.	.
PUMPKINSEED	.	54	3	.	.
PUMPKINSEED	.	61	4	.	.
PUMPKINSEED	.	57	4	.	.
PUMPKINSEED	.	72	8	.	.
PUMPKINSEED	.	86	15	.	.
PUMPKINSEED	.	89	16	.	.
PUMPKINSEED	.	81	12	.	.
PUMPKINSEED	.	97	22	.	.
PUMPKINSEED	.	109	32	.	.
PUMPKINSEED	.	97	22	.	.
PUMPKINSEED	.	87	15	.	.
PUMPKINSEED	.	88	16	.	.
PUMPKINSEED	.	77	10	.	.
PUMPKINSEED	.	92	17	.	.
PUMPKINSEED	.	64	5	.	.
PUMPKINSEED	.	71	7	.	.
PUMPKINSEED	.	62	5	.	.
PUMPKINSEED	.	68	6	.	.
PUMPKINSEED	.	74	8	.	.
PUMPKINSEED	.	83	13	.	.
PUMPKINSEED	.	97	23	.	.
PUMPKINSEED	.	76	11	.	.
PUMPKINSEED	.	89	18	.	.
PUMPKINSEED	.	89	17	.	.
PUMPKINSEED	.	52	3	.	.
PUMPKINSEED	.	60	4	.	.
PUMPKINSEED	.	.	.	1	28
PUMPKINSEED	.	.	.	5	49
BLUEGILL	.	126	33	.	.
BLUEGILL	.	121	22	.	.
BLUEGILL	.	76	10	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	71	6	.	.
BLUEGILL	.	88	15	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	84	13	.	.
BLUEGILL	.	78	8	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	91	16	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	77	10	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	83	11	.	.
BLUEGILL	.	75	9	.	.
BLUEGILL	.	75	7	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	.	.	50	392
NORTHERN SUNFISH	YOY	47	2	.	.
NORTHERN SUNFISH	.	72	8	.	.
Lepomis HYBRID	.	.	.	2	12

SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 04JUN13:08:38 END DATE AND TIME: 04JUN13:09:15

GIZZARD SHAD	.	447	810	.	.
COMMON CARP	.	398	980	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
COMMON CARP	.	.	.	1	2380
BLUNTNOST MINNOW	.	.	.	20	81
CHANNEL CATFISH	.	85	4	.	.
GREEN SUNFISH	.	131	42	.	.
GREEN SUNFISH	.	117	26	.	.
GREEN SUNFISH	.	113	30	.	.
GREEN SUNFISH	.	119	39	.	.
GREEN SUNFISH	.	95	25	.	.
GREEN SUNFISH	.	70	7	.	.
GREEN SUNFISH	.	88	16	.	.
GREEN SUNFISH	.	79	11	.	.
GREEN SUNFISH	.	83	12	.	.
GREEN SUNFISH	.	70	8	.	.
GREEN SUNFISH	.	58	5	.	.
GREEN SUNFISH	.	54	4	.	.
GREEN SUNFISH	.	51	3	.	.
GREEN SUNFISH	.	58	5	.	.
GREEN SUNFISH	.	58	4	.	.
GREEN SUNFISH	.	63	5	.	.
GREEN SUNFISH	.	62	6	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	60	5	.	.
GREEN SUNFISH	.	61	5	.	.
GREEN SUNFISH	.	67	7	.	.
GREEN SUNFISH	.	68	7	.	.
GREEN SUNFISH	.	76	9	.	.
PUMPKINSEED	.	93	18	.	.
PUMPKINSEED	.	84	12	.	.
PUMPKINSEED	.	83	13	.	.
PUMPKINSEED	.	65	6	.	.
PUMPKINSEED	.	97	20	.	.
PUMPKINSEED	.	92	18	.	.
PUMPKINSEED	.	91	17	.	.
PUMPKINSEED	.	85	13	.	.
PUMPKINSEED	.	80	10	.	.
PUMPKINSEED	.	84	13	.	.
PUMPKINSEED	.	80	11	.	.
PUMPKINSEED	.	70	8	.	.
PUMPKINSEED	.	97	19	.	.
PUMPKINSEED	.	77	9	.	.
PUMPKINSEED	.	90	17	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	50	2	.	.
BLUEGILL	.	63	4	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	51	2	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	52	2	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	81	9	.	.
BLUEGILL	.	68	5	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	45	2	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	74	7	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	91	14	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	.	.	28	195
ROUND GOBY	.	94	13	.	.
ROUND GOBY	.	81	9	.	.

SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 04JUN13:17:28 END DATE AND TIME: 04JUN13:17:59

COMMON CARP	.	532	1900	.	.
YELLOW BULLHEAD	.	109	17	.	.
YELLOW BULLHEAD	.	151	46	.	.
GREEN SUNFISH	.	96	26	.	.
GREEN SUNFISH	.	87	16	.	.
GREEN SUNFISH	.	115	41	.	.
ORANGESPOTTED SUNFISH	.	51	2	.	.
BLUEGILL	.	92	16	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	----	-----	-----	-----	-----
BLUEGILL	.	66	7	.	.
BLUEGILL	.	78	10	.	.
Lepomis HYBRID	.	.	.	1	10
SITE: SHIP CANAL LOCATION: 304		GEAR: ELECTRO MESOHABITAT:			
START DATE AND TIME: 04JUN13:16:22		END DATE AND TIME: 04JUN13:16:45			
COMMON CARP	.	622	3100	.	.
COMMON CARP	.	680	3620	.	.
COMMON CARP	.	595	3000	.	.
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	22	54
WHITE SUCKER	.	331	460	.	.
YELLOW BULLHEAD	.	202	145	.	.
CHANNEL CATFISH	.	528	1780	.	.
CHANNEL CATFISH	.	482	1240	.	.
GREEN SUNFISH	.	102	29	.	.
GREEN SUNFISH	.	93	21	.	.
PUMPKINSEED	.	82	12	.	.
PUMPKINSEED	.	66	6	.	.
PUMPKINSEED	.	66	6	.	.
PUMPKINSEED	.	72	9	.	.
PUMPKINSEED	.	72	9	.	.
PUMPKINSEED	.	65	6	.	.
ORANGESPOTTED SUNFISH	YOY	40	1	.	.
ORANGESPOTTED SUNFISH	YOY	47	2	.	.
ORANGESPOTTED SUNFISH	YOY	44	2	.	.
BLUEGILL	.	116	38	.	.
BLUEGILL	.	154	90	.	.
BLUEGILL	.	121	42	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	92	16	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	67	6	.	.
Lepomis HYBRID	.	.	.	1	120
SMALLMOUTH BASS	.	110	12	.	.
SMALLMOUTH BASS	.	252	245	.	.
ROUND GOBY	.	89	13	.	.
ROUND GOBY	.	73	7	.	.
ROUND GOBY	.	70	6	.	.
ROUND GOBY	.	75	6	.	.
ROUND GOBY	.	70	5	.	.
SITE: SHIP CANAL LOCATION: 305		GEAR: ELECTRO MESOHABITAT: MAIN			
START DATE AND TIME: 04JUN13:18:30		END DATE AND TIME: 04JUN13:19:00			
GIZZARD SHAD	.	351	460	.	.
GIZZARD SHAD	.	114	15	.	.
GIZZARD SHAD	.	109	15	.	.
GIZZARD SHAD	.	132	20	.	.
GIZZARD SHAD	.	110	14	.	.
GIZZARD SHAD	.	127	23	.	.
GIZZARD SHAD	.	143	31	.	.
GIZZARD SHAD	.	87	7	.	.
GIZZARD SHAD	.	89	8	.	.
GIZZARD SHAD	.	144	23	.	.
GIZZARD SHAD	.	105	12	.	.
GIZZARD SHAD	.	92	8	.	.
GIZZARD SHAD	.	97	10	.	.
COMMON CARP	.	628	2810	.	.
ORIENTAL WEATHERFISH	.	97	5	.	.
GREEN SUNFISH	.	95	21	.	.
GREEN SUNFISH	.	101	26	.	.
GREEN SUNFISH	.	104	25	.	.
GREEN SUNFISH	.	108	27	.	.
GREEN SUNFISH	.	63	5	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	60	5	.	.
GREEN SUNFISH	.	54	4	.	.
GREEN SUNFISH	.	42	2	.	.
PUMPKINSEED	.	65	5	.	.
ORANGESPOTTED SUNFISH	YOY	40	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	67	6	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	54	3	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	52	3	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	80	11	.	.
FRESHWATER DRUM	.	400	720	.	.
ROUND GOBY	.	66	4	.	.
ROUND GOBY	.	52	2	.	.
ROUND GOBY	.	53	2	.	.

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 04JUN13:19:17 END DATE AND TIME: 04JUN13:19:47

COMMON CARP	.	490	1400	.	.
EMERALD SHINER	.	.	.	5	19
SPOTFIN SHINER	.	.	.	1	2
BLUNTNOST MINNOW	.	.	.	11	40
BLUNTNOST MINNOW	.	.	.	1	2
CHANNEL CATFISH	.	391	760	.	.
CHANNEL CATFISH	.	423	910	.	.
GREEN SUNFISH	.	92	19	.	.
GREEN SUNFISH	.	40	2	.	.
PUMPKINSEED	.	70	7	.	.
PUMPKINSEED	.	73	9	.	.
PUMPKINSEED	.	71	8	.	.
PUMPKINSEED	.	80	11	.	.
PUMPKINSEED	.	72	8	.	.
ORANGESPOTTED SUNFISH	YOY	46	2	.	.
BLUEGILL	.	104	23	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	93	18	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	82	10	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	89	14	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	82	10	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	45	2	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	.	.	2	12
Lepomis HYBRID	.	.	.	1	100
ROUND GOBY	.	65	4	.	.

SITE: SHIP CANAL LOCATION: 307 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 05JUN13:08:00 END DATE AND TIME: 05JUN13:08:32

BLUNTNOST MINNOW	.	.	.	7	34
GREEN SUNFISH	.	119	40	.	.
GREEN SUNFISH	.	126	44	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	64	5	.	.
GREEN SUNFISH	.	82	13	.	.
GREEN SUNFISH	.	72	10	.	.
GREEN SUNFISH	.	47	2	.	.
GREEN SUNFISH	.	100	27	.	.
GREEN SUNFISH	.	59	5	.	.
GREEN SUNFISH	.	56	4	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	47	2	.	.
GREEN SUNFISH	.	43	2	.	.
GREEN SUNFISH	.	46	2	.	.
GREEN SUNFISH	.	39	1	.	.
PUMPKINSEED	.	62	5	.	.
BLUEGILL	.	167	98	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	164	106	.	.
BLUEGILL	.	142	54	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	69	7	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	87	15	.	.
BLUEGILL	.	61	5	.	.
BLUEGILL	.	69	7	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	YOY	41	1	.	.
LARGEMOUTH BASS	.	183	74	.	.
LARGEMOUTH BASS	.	114	19	.	.

SITE: SHIP CANAL LOCATION: 309 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 05JUN13:09:11 END DATE AND TIME: 05JUN13:09:40

PUMPKINSEED	.	110	33	.	.
LARGEMOUTH BASS	.	.	.	8	80

SITE: DESPLAINES LOCATION: 402 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 02JUL13:13:00 END DATE AND TIME: 02JUL13:13:22

LONGNOSE GAR	.	787	990	.	.
COMMON CARP	.	527	2200	.	.
SPOTFIN SHINER	.	.	.	1	4
SMALLMOUTH BUFFALO	.	517	2710	.	.
SMALLMOUTH BUFFALO	.	601	4050	.	.
SMALLMOUTH BUFFALO	.	427	1040	.	.
SMALLMOUTH BUFFALO	.	470	1700	.	.
SMALLMOUTH BUFFALO	.	530	2000	.	.
SMALLMOUTH BUFFALO	.	441	1510	.	.
SHORHEAD REDHORSE	.	272	220	.	.
SHORHEAD REDHORSE	.	348	430	.	.
CHANNEL CATFISH	.	470	1030	.	.
CHANNEL CATFISH	.	453	910	.	.
CHANNEL CATFISH	.	503	1320	.	.
ROCK BASS	.	190	160	.	.
GREEN SUNFISH	.	119	35	.	.
GREEN SUNFISH	.	91	15	.	.
GREEN SUNFISH	.	71	7	.	.
GREEN SUNFISH	.	57	3	.	.
GREEN SUNFISH	YOY	39	1	.	.
PUMPKINSEED	.	86	13	.	.
PUMPKINSEED	.	78	10	.	.
PUMPKINSEED	.	98	23	.	.
BLUEGILL	.	117	33	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	.	100	21	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	50	2	.	.
BLUEGILL	.	72	8	.	.
Lepomis HYBRID	.	.	.	4	78
LARGEMOUTH BASS	.	323	500	.	.
LARGEMOUTH BASS	.	182	80	.	.
LARGEMOUTH BASS	.	365	780	.	.
LARGEMOUTH BASS	.	302	370	.	.
LARGEMOUTH BASS	.	236	165	.	.
FRESHWATER DRUM	.	515	1860	.	.
FRESHWATER DRUM	.	463	1140	.	.
FRESHWATER DRUM	.	540	2315	.	.
FRESHWATER DRUM	.	372	680	.	.
FRESHWATER DRUM	.	421	800	.	.
FRESHWATER DRUM	.	474	1800	.	.
FRESHWATER DRUM	.	445	1310	.	.
ROUND GOBY	YOY	26	1	.	.

SITE: DESPLAINES LOCATION: 402A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 02JUL13:13:46 END DATE AND TIME: 02JUL13:14:22

GIZZARD SHAD	.	294	200	.	.
GIZZARD SHAD	.	273	190	.	.
GIZZARD SHAD	.	223	110	.	.
GIZZARD SHAD	.	308	240	.	.
GIZZARD SHAD	.	227	115	.	.
GIZZARD SHAD	.	252	160	.	.
GIZZARD SHAD	.	203	95	.	.
GIZZARD SHAD	.	216	110	.	.
GIZZARD SHAD	.	273	210	.	.
GIZZARD SHAD	.	229	120	.	.
GIZZARD SHAD	.	238	130	.	.
GIZZARD SHAD	.	281	210	.	.
GIZZARD SHAD	.	211	125	.	.
GIZZARD SHAD	.	236	140	.	.
GIZZARD SHAD	.	228	125	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	-----	-----	-----	-----	-----
GIZZARD SHAD	.	274	180	.	.
GIZZARD SHAD	.	207	95	.	.
COMMON CARP	.	583	2890	.	.
COMMON CARP	.	507	1960	.	.
EMERALD SHINER	YOY	.	.	1	1
BLUNTNOST MINNOW	.	.	.	1	2
RIVER CARPSUCKER	.	365	550	.	.
SMALLMOUTH BUFFALO	.	386	770	.	.
SMALLMOUTH BUFFALO	.	408	940	.	.
SMALLMOUTH BUFFALO	.	373	840	.	.
SMALLMOUTH BUFFALO	.	427	1200	.	.
CHANNEL CATFISH	.	529	1590	.	.
GREEN SUNFISH	.	127	40	.	.
GREEN SUNFISH	.	164	120	.	.
GREEN SUNFISH	.	121	38	.	.
GREEN SUNFISH	.	60	5	.	.
GREEN SUNFISH	.	96	20	.	.
GREEN SUNFISH	.	97	19	.	.
GREEN SUNFISH	.	103	24	.	.
GREEN SUNFISH	.	78	10	.	.
GREEN SUNFISH	.	91	16	.	.
PUMPKINSEED	.	77	9	.	.
PUMPKINSEED	.	65	5	.	.
PUMPKINSEED	.	79	11	.	.
PUMPKINSEED	.	77	11	.	.
PUMPKINSEED	.	69	7	.	.
PUMPKINSEED	.	70	7	.	.
PUMPKINSEED	.	79	9	.	.
PUMPKINSEED	.	68	6	.	.
PUMPKINSEED	.	72	8	.	.
ORANGESPOTTED SUNFISH	.	61	5	.	.
BLUEGILL	.	110	25	.	.
BLUEGILL	.	97	22	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	77	7	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	93	15	.	.
BLUEGILL	.	125	43	.	.
BLUEGILL	.	62	4	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	94	16	.	.
BLUEGILL	.	54	3	.	.
BLUEGILL	.	41	1	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	41	1	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	39	1	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	69	7	.	.
BLUEGILL	.	103	22	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	54	4	.	.
BLUEGILL	.	87	13	.	.
BLUEGILL	.	.	.	17	165
Lepomis HYBRID	.	.	.	1	13
Lepomis HYBRID	.	.	.	4	44
LARGEMOUTH BASS	.	290	290	.	.
LARGEMOUTH BASS	.	315	470	.	.
LARGEMOUTH BASS	.	308	500	.	.
LARGEMOUTH BASS	.	194	95	.	.
LARGEMOUTH BASS	.	251	280	.	.
LARGEMOUTH BASS	YOY	32	1	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
FRESHWATER DRUM	.	470	1430	.	.
FRESHWATER DRUM	.	348	580	.	.
FRESHWATER DRUM	.	413	1010	.	.
FRESHWATER DRUM	.	345	600	.	.
FRESHWATER DRUM	.	455	1110	.	.
FRESHWATER DRUM	.	390	840	.	.
ROUND GOBY	.	60	3	.	.

SITE: DESPLAINES LOCATION: 403 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 02JUL13:14:48 END DATE AND TIME: 02JUL13:15:11

LONGNOSE GAR	.	786	1130	.	.
LONGNOSE GAR	.	532	310	.	.
LONGNOSE GAR	.	650	590	.	.
LONGNOSE GAR	.	538	380	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SPOTFIN SHINER	.	.	.	5	11
CHANNEL CATFISH	.	425	920	.	.
CHANNEL CATFISH	.	487	1300	.	.
CHANNEL CATFISH	.	417	585	.	.
CHANNEL CATFISH	.	558	1600	.	.
CHANNEL CATFISH	.	429	930	.	.
CHANNEL CATFISH	.	540	1640	.	.
CHANNEL CATFISH	.	415	795	.	.
CHANNEL CATFISH	.	490	1520	.	.
CHANNEL CATFISH	.	532	1275	.	.
CHANNEL CATFISH	.	401	620	.	.
CHANNEL CATFISH	.	491	1110	.	.
CHANNEL CATFISH	.	489	1220	.	.
CHANNEL CATFISH	.	570	1470	.	.
CHANNEL CATFISH	.	452	980	.	.
CHANNEL CATFISH	.	450	760	.	.
CHANNEL CATFISH	.	430	880	.	.
GREEN SUNFISH	.	122	42	.	.
GREEN SUNFISH	.	98	24	.	.
GREEN SUNFISH	.	96	18	.	.
GREEN SUNFISH	.	61	4	.	.
GREEN SUNFISH	.	47	3	.	.
GREEN SUNFISH	.	69	7	.	.
PUMPKINSEED	.	78	10	.	.
BLUEGILL	.	161	96	.	.
BLUEGILL	.	170	110	.	.
BLUEGILL	.	134	51	.	.
BLUEGILL	.	145	70	.	.
BLUEGILL	.	131	45	.	.
BLUEGILL	.	110	28	.	.
BLUEGILL	.	50	2	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	71	8	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	110	29	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	43	2	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	84	11	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	84	13	.	.
BLUEGILL	.	104	21	.	.
BLUEGILL	.	95	19	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	71	6	.	.
BLUEGILL	.	56	4	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	.	.	3	25
Lepomis HYBRID	.	.	.	1	31
Lepomis HYBRID	.	.	.	1	195
Lepomis HYBRID	.	.	.	1	14
Lepomis HYBRID	.	.	.	1	12
Lepomis HYBRID	.	.	.	1	9
Lepomis HYBRID	.	.	.	4	61
LARGEMOUTH BASS	.	185	77	.	.
LARGEMOUTH BASS	.	204	125	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
LARGEMOUTH BASS	YOY	43	1	.	.
LARGEMOUTH BASS	YOY	33	1	.	.
FRESHWATER DRUM	.	365	700	.	.

SITE: DESPLAINES LOCATION: 403A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 02JUL13:16:07 END DATE AND TIME: 02JUL13:16:39

LONGNOSE GAR	.	727	710	.	.
GIZZARD SHAD	.	223	95	.	.
GIZZARD SHAD	.	252	120	.	.
GIZZARD SHAD	.	175	50	.	.
GIZZARD SHAD	.	206	80	.	.
COMMON CARP	.	402	820	.	.
BLUNTNOSE MINNOW	.	.	.	1	1
QUILLBACK	.	377	625	.	.
CHANNEL CATFISH	.	426	680	.	.
CHANNEL CATFISH	.	480	1070	.	.
CHANNEL CATFISH	.	471	1220	.	.
CHANNEL CATFISH	.	417	850	.	.
GREEN SUNFISH	.	76	10	.	.
GREEN SUNFISH	.	83	13	.	.
GREEN SUNFISH	.	128	46	.	.
BLUEGILL	.	147	74	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	132	54	.	.
BLUEGILL	.	132	54	.	.
BLUEGILL	.	141	52	.	.
BLUEGILL	.	130	41	.	.
BLUEGILL	.	132	47	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	88	13	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	87	13	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	81	12	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	93	17	.	.
BLUEGILL	.	88	13	.	.
BLUEGILL	.	102	19	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	48	2	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	101	19	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	68	5	.	.
BLUEGILL	.	102	23	.	.
BLUEGILL	.	.	.	5	51
LARGEMOUTH BASS	.	282	320	.	.
LARGEMOUTH BASS	.	360	730	.	.
LARGEMOUTH BASS	.	378	790	.	.
LARGEMOUTH BASS	.	202	95	.	.
LARGEMOUTH BASS	.	240	170	.	.
BLACK CRAPPIE	.	170	70	.	.
FRESHWATER DRUM	.	419	960	.	.
ROUND GOBY	YOY	27	1	.	.

SITE: DESPLAINES LOCATION: 404A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 02JUL13:17:15 END DATE AND TIME: 02JUL13:17:47

COMMON CARP	.	479	1300	.	.
COMMON CARP	.	262	280	.	.
BLUNTNOSE MINNOW	.	.	.	3	6
SMALLMOUTH BUFFALO	.	368	840	.	.
SMALLMOUTH BUFFALO	.	421	1180	.	.
SMALLMOUTH BUFFALO	.	336	540	.	.
CHANNEL CATFISH	.	415	700	.	.
CHANNEL CATFISH	.	582	1890	.	.
GREEN SUNFISH	.	113	34	.	.
GREEN SUNFISH	.	100	24	.	.
GREEN SUNFISH	.	90	17	.	.
GREEN SUNFISH	.	85	16	.	.
GREEN SUNFISH	.	68	7	.	.
GREEN SUNFISH	.	81	12	.	.
GREEN SUNFISH	.	97	24	.	.
GREEN SUNFISH	.	93	19	.	.
GREEN SUNFISH	.	90	17	.	.
GREEN SUNFISH	.	55	4	.	.
GREEN SUNFISH	.	74	10	.	.
GREEN SUNFISH	.	65	6	.	.
PUMPKINSEED	.	93	20	.	.
PUMPKINSEED	.	96	20	.	.
BLUEGILL	.	142	60	.	.
BLUEGILL	.	150	74	.	.
BLUEGILL	.	122	33	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	89	14	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	74	7	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	69	7	.	.
BLUEGILL	.	92	16	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	.	75	9	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	56	4	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	75	8	.	.
Lepomis HYBRID	.	.	.	1	15
SMALLMOUTH BASS	YOY	35	1	.	.
LARGEMOUTH BASS	.	371	760	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	.	277	265	.	.
LARGEMOUTH BASS	.	223	135	.	.
LARGEMOUTH BASS	.	222	120	.	.
LARGEMOUTH BASS	YOY	48	2	.	.
LARGEMOUTH BASS	YOY	45	1	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	39	1	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
FRESHWATER DRUM	.	466	1360	.	.
SITE: DESPLAINES LOCATION: 405 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 02JUL13:18:22 END DATE AND TIME: 02JUL13:19:04					
GIZZARD SHAD	.	218	102	.	.
GIZZARD SHAD	.	210	85	.	.
GIZZARD SHAD	.	238	130	.	.
GIZZARD SHAD	.	232	120	.	.
GIZZARD SHAD	.	219	95	.	.
GIZZARD SHAD	.	178	54	.	.
GIZZARD SHAD	.	201	85	.	.
GIZZARD SHAD	.	291	220	.	.
GIZZARD SHAD	.	175	56	.	.
COMMON CARP	.	248	235	.	.
BLUNTNOSE MINNOW	.	.	.	5	8
BLUNTNOSE MINNOW	YOY	.	.	4	1
YELLOW BULLHEAD	.	253	270	.	.
YELLOW BULLHEAD	.	256	250	.	.
GREEN SUNFISH	.	156	75	.	.
GREEN SUNFISH	.	177	120	.	.
GREEN SUNFISH	.	44	2	.	.
GREEN SUNFISH	.	85	13	.	.
GREEN SUNFISH	.	76	9	.	.
GREEN SUNFISH	.	75	8	.	.
GREEN SUNFISH	.	70	7	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	92	19	.	.
GREEN SUNFISH	.	74	8	.	.
GREEN SUNFISH	.	57	4	.	.
GREEN SUNFISH	.	55	3	.	.
GREEN SUNFISH	.	49	3	.	.
GREEN SUNFISH	.	48	2	.	.
PUMPKINSEED	.	86	14	.	.
PUMPKINSEED	.	76	10	.	.
PUMPKINSEED	.	84	14	.	.
PUMPKINSEED	.	80	11	.	.
PUMPKINSEED	.	70	7	.	.
BLUEGILL	.	168	105	.	.
BLUEGILL	.	162	80	.	.
BLUEGILL	.	140	60	.	.
BLUEGILL	.	175	90	.	.
BLUEGILL	.	132	44	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	50	2	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	95	17	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	105	27	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	97	20	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	56	4	.	.
BLUEGILL	.	71	8	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	67	7	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	101	26	.	.
BLUEGILL	.	121	40	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	.	.	22	308
NORTHERN SUNFISH	.	101	31	.	.
NORTHERN SUNFISH	.	70	8	.	.
NORTHERN SUNFISH	.	67	7	.	.
Lepomis HYBRID	.	.	.	1	145
Lepomis HYBRID	.	.	.	1	160
Lepomis HYBRID	.	.	.	8	60
LARGEMOUTH BASS	.	217	100	.	.
LARGEMOUTH BASS	.	183	84	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	.	243	145	.	.
LARGEMOUTH BASS	.	334	520	.	.
LARGEMOUTH BASS	.	282	310	.	.
LARGEMOUTH BASS	.	190	80	.	.
LARGEMOUTH BASS	.	253	220	.	.
LARGEMOUTH BASS	.	207	115	.	.
LARGEMOUTH BASS	YOY	43	1	.	.
LARGEMOUTH BASS	YOY	50	2	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	35	1	.	.
LARGEMOUTH BASS	YOY	28	1	.	.
LARGEMOUTH BASS	YOY	45	2	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
LARGEMOUTH BASS	YOY	48	1	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	35	1	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	35	1	.	.
LARGEMOUTH BASS	YOY	43	1	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
LARGEMOUTH BASS	YOY	39	1	.	.
LARGEMOUTH BASS	YOY	36	1	.	.

SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 03JUL13:10:57 END DATE AND TIME: 03JUL13:11:38

GIZZARD SHAD	.	265	200	.	.
GIZZARD SHAD	.	244	120	.	.
GIZZARD SHAD	.	161	38	.	.
GIZZARD SHAD	.	152	31	.	.
GIZZARD SHAD	.	265	145	.	.
GIZZARD SHAD	.	192	70	.	.
GIZZARD SHAD	.	185	62	.	.
GIZZARD SHAD	.	170	47	.	.
GIZZARD SHAD	.	162	41	.	.
GIZZARD SHAD	.	197	75	.	.
GIZZARD SHAD	.	183	60	.	.
GIZZARD SHAD	.	310	260	.	.
GIZZARD SHAD	.	212	95	.	.
GIZZARD SHAD	.	172	40	.	.
GIZZARD SHAD	.	265	185	.	.
GIZZARD SHAD	.	186	65	.	.
GIZZARD SHAD	.	148	34	.	.
GIZZARD SHAD	.	140	27	.	.
GIZZARD SHAD	.	138	24	.	.
THREADFIN SHAD	.	130	20	.	.
COMMON CARP	.	472	1200	.	.
COMMON CARP	.	535	1840	.	.
EMERALD SHINER	.	.	.	2	6
BLUNTNOSE MINNOW	.	.	.	2	3
BLUNTNOSE MINNOW	YOY	.	.	13	2
BROOK SILVERSIDE	YOY	.	.	1	1
GREEN SUNFISH	.	148	75	.	.
GREEN SUNFISH	.	87	15	.	.
GREEN SUNFISH	.	100	26	.	.
GREEN SUNFISH	.	54	4	.	.
GREEN SUNFISH	.	78	12	.	.
GREEN SUNFISH	.	83	13	.	.
ORANGESPOTTED SUNFISH	.	48	2	.	.
BLUEGILL	.	170	115	.	.
BLUEGILL	.	148	50	.	.
BLUEGILL	.	157	84	.	.
BLUEGILL	.	113	31	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	106	24	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	82	12	.	.
BLUEGILL	.	86	14	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	79	10	.	.
Lepomis HYBRID	.	.	.	8	141
LARGEMOUTH BASS	.	361	850	.	.
LARGEMOUTH BASS	.	248	210	.	.
LARGEMOUTH BASS	.	153	46	.	.
LARGEMOUTH BASS	.	233	235	.	.
LARGEMOUTH BASS	.	166	58	.	.
LARGEMOUTH BASS	.	123	27	.	.
LARGEMOUTH BASS	YOY	48	2	.	.
LARGEMOUTH BASS	YOY	45	1	.	.
LARGEMOUTH BASS	YOY	48	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

SITE: DESPLAINES	LOCATION: 412A	GEAR: ELECTRO	MESOHABITAT: MAIN CHANNEL BORDER		
START DATE AND TIME: 03JUL13:12:14		END DATE AND TIME: 03JUL13:12:47			
GIZZARD SHAD	.	230	125	.	.
GIZZARD SHAD	.	168	43	.	.
GIZZARD SHAD	.	175	54	.	.
GIZZARD SHAD	.	148	34	.	.
GIZZARD SHAD	.	182	55	.	.
GIZZARD SHAD	.	159	37	.	.
GIZZARD SHAD	.	170	53	.	.
GIZZARD SHAD	.	168	53	.	.
SPOTFIN SHINER	.	.	.	1	2
BLUNTNOSE MINNOW	.	.	.	1	2
BLUNTNOSE MINNOW	YOY	.	.	1	1
GOLDEN REDHORSE	.	367	565	.	.
BROOK SILVERSIDE	YOY	.	.	2	1
GREEN SUNFISH	.	79	10	.	.
GREEN SUNFISH	.	60	5	.	.
GREEN SUNFISH	.	47	2	.	.
PUMPKINSEED	.	99	21	.	.
PUMPKINSEED	.	100	23	.	.
BLUEGILL	.	150	78	.	.
BLUEGILL	.	135	50	.	.
BLUEGILL	.	97	17	.	.
BLUEGILL	.	106	23	.	.
BLUEGILL	.	121	34	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	83	11	.	.
BLUEGILL	.	54	3	.	.
BLUEGILL	.	96	17	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	94	18	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	111	28	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	83	11	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	116	29	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	71	8	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	111	26	.	.
NORTHERN SUNFISH	.	70	8	.	.
SMALLMOUTH BASS	.	132	28	.	.
SMALLMOUTH BASS	.	115	16	.	.
LARGEMOUTH BASS	.	215	135	.	.
LARGEMOUTH BASS	.	172	60	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
LARGEMOUTH BASS	YOY	36	1	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	50	2	.	.
LARGEMOUTH BASS	YOY	51	2	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	44	1	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
LARGEMOUTH BASS	YOY	44	1	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 03JUL13:13:28		END DATE AND TIME: 03JUL13:14:10			
GIZZARD SHAD	.	176	51	.	.
GIZZARD SHAD	.	247	135	.	.
GIZZARD SHAD	.	156	37	.	.
YELLOW BULLHEAD	.	240	190	.	.
YELLOW BULLHEAD	.	250	255	.	.
CHANNEL CATFISH	.	538	1800	.	.
GREEN SUNFISH	.	149	76	.	.
GREEN SUNFISH	.	105	30	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	65	6	.	.
GREEN SUNFISH	.	57	4	.	.
ORANGESPOTTED SUNFISH	.	58	4	.	.
BLUEGILL	.	121	40	.	.
BLUEGILL	.	116	32	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	110	30	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	145	56	.	.
BLUEGILL	.	157	81	.	.
BLUEGILL	.	156	85	.	.
BLUEGILL	.	140	52	.	.
BLUEGILL	.	150	75	.	.
BLUEGILL	.	130	49	.	.
BLUEGILL	.	148	64	.	.
BLUEGILL	.	144	60	.	.
BLUEGILL	.	.	.	14	340
BLUEGILL	.	140	60	.	.
BLUEGILL	.	120	30	.	.
BLUEGILL	.	115	32	.	.
BLUEGILL	.	143	56	.	.
BLUEGILL	.	.	.	10	515
BLUEGILL	.	.	.	4	175
BLUEGILL	.	.	.	3	175
BLUEGILL	.	.	.	5	170
BLUEGILL	.	.	.	4	140
BLUEGILL	.	.	.	1	72
BLUEGILL	.	.	.	2	90
BLUEGILL	.	182	135	.	.
BLUEGILL	.	133	45	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	74	8	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	66	6	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	57	4	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	.	.	1	8
BLUEGILL	.	.	.	39	466
Lepomis HYBRID	.	.	.	1	20
LARGEMOUTH BASS	.	351	860	.	.
LARGEMOUTH BASS	.	260	260	.	.
LARGEMOUTH BASS	.	213	140	.	.
LARGEMOUTH BASS	.	287	350	.	.
LARGEMOUTH BASS	.	173	65	.	.
LARGEMOUTH BASS	.	416	785	.	.
LARGEMOUTH BASS	.	264	280	.	.
LARGEMOUTH BASS	.	224	145	.	.
LARGEMOUTH BASS	.	156	49	.	.
LARGEMOUTH BASS	.	143	30	.	.
LARGEMOUTH BASS	.	195	104	.	.
LARGEMOUTH BASS	YOY	49	2	.	.
LARGEMOUTH BASS	YOY	47	2	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	YOY	47	2	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 03JUL13:15:24 END DATE AND TIME: 03JUL13:16:05

GIZZARD SHAD	.	200	71	.	.
GIZZARD SHAD	.	195	85	.	.
GIZZARD SHAD	.	211	70	.	.
GIZZARD SHAD	.	215	85	.	.
GIZZARD SHAD	.	148	30	.	.
GIZZARD SHAD	.	246	175	.	.
GIZZARD SHAD	.	216	85	.	.
GIZZARD SHAD	.	257	150	.	.
GIZZARD SHAD	.	262	150	.	.
GIZZARD SHAD	.	258	165	.	.
GIZZARD SHAD	.	217	91	.	.
GIZZARD SHAD	.	210	85	.	.
GIZZARD SHAD	.	228	110	.	.
GIZZARD SHAD	.	220	90	.	.
GIZZARD SHAD	.	205	80	.	.
GIZZARD SHAD	.	195	65	.	.
GIZZARD SHAD	.	250	140	.	.
GIZZARD SHAD	.	315	265	.	.
GIZZARD SHAD	.	280	200	.	.
GIZZARD SHAD	.	261	160	.	.
GIZZARD SHAD	.	225	110	.	.
GIZZARD SHAD	.	224	110	.	.
GIZZARD SHAD	.	157	35	.	.
GIZZARD SHAD	.	282	185	.	.
GIZZARD SHAD	.	209	72	.	.
GIZZARD SHAD	.	201	75	.	.
GIZZARD SHAD	.	185	52	.	.
GIZZARD SHAD	.	220	90	.	.
GIZZARD SHAD	.	281	200	.	.
GIZZARD SHAD	.	236	119	.	.
GIZZARD SHAD	.	.	.	1	32

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

GIZZARD SHAD	.	.	.	1	185
THREADFIN SHAD	.	102	10	.	.
THREADFIN SHAD	YOY	77	5	.	.
THREADFIN SHAD	YOY	64	2	.	.
THREADFIN SHAD	YOY	27	1	.	.
BLUNTNOSE MINNOW	.	.	.	4	9
BLUNTNOSE MINNOW	YOY	.	.	13	3
BULLHEAD MINNOW	.	.	.	1	2
YELLOW BULLHEAD	.	229	165	.	.
CHANNEL CATFISH	.	498	1460	.	.
GREEN SUNFISH	.	130	47	.	.
GREEN SUNFISH	.	131	59	.	.
GREEN SUNFISH	.	130	41	.	.
GREEN SUNFISH	.	119	40	.	.
GREEN SUNFISH	.	117	35	.	.
GREEN SUNFISH	.	122	40	.	.
GREEN SUNFISH	.	134	57	.	.
GREEN SUNFISH	.	.	.	1	48
GREEN SUNFISH	.	120	38	.	.
GREEN SUNFISH	.	117	37	.	.
GREEN SUNFISH	.	.	.	3	55
GREEN SUNFISH	.	83	14	.	.
GREEN SUNFISH	.	91	18	.	.
GREEN SUNFISH	.	83	14	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	73	9	.	.
GREEN SUNFISH	.	77	11	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	118	35	.	.
GREEN SUNFISH	.	57	4	.	.
GREEN SUNFISH	.	114	34	.	.
GREEN SUNFISH	.	53	3	.	.
GREEN SUNFISH	.	69	7	.	.
GREEN SUNFISH	.	55	4	.	.
GREEN SUNFISH	.	75	8	.	.
GREEN SUNFISH	YOY	30	1	.	.
GREEN SUNFISH	.	70	7	.	.
GREEN SUNFISH	.	81	13	.	.
GREEN SUNFISH	.	81	12	.	.
GREEN SUNFISH	.	68	8	.	.
GREEN SUNFISH	.	56	4	.	.
GREEN SUNFISH	.	69	7	.	.
GREEN SUNFISH	.	.	.	37	461
ORANGESPOTTED SUNFISH	.	65	6	.	.
BLUEGILL	.	127	46	.	.
BLUEGILL	.	143	59	.	.
BLUEGILL	.	.	.	7	410
BLUEGILL	.	138	49	.	.
BLUEGILL	.	115	27	.	.
BLUEGILL	.	117	33	.	.
BLUEGILL	.	121	32	.	.
BLUEGILL	.	162	100	.	.
BLUEGILL	.	160	105	.	.
BLUEGILL	.	159	100	.	.
BLUEGILL	.	143	59	.	.
BLUEGILL	.	122	42	.	.
BLUEGILL	.	156	84	.	.
BLUEGILL	.	.	.	7	190
BLUEGILL	.	152	68	.	.
BLUEGILL	.	.	.	10	410
BLUEGILL	.	.	.	3	60
BLUEGILL	.	.	.	2	72
BLUEGILL	.	57	4	.	.
BLUEGILL	.	40	1	.	.
BLUEGILL	.	55	4	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	105	25	.	.
BLUEGILL	.	104	25	.	.
BLUEGILL	.	56	4	.	.
BLUEGILL	.	95	18	.	.
BLUEGILL	.	47	2	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	42	1	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	54	3	.	.
BLUEGILL	.	107	23	.	.
BLUEGILL	.	.	.	25	350
Lepomis HYBRID	.	.	.	1	110
Lepomis HYBRID	.	.	.	1	40
Lepomis HYBRID	.	.	.	1	23
LARGEMOUTH BASS	.	263	265	.	.
LARGEMOUTH BASS	.	234	180	.	.
LARGEMOUTH BASS	.	300	365	.	.
LARGEMOUTH BASS	.	292	345	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	.	327	430	.	.
LARGEMOUTH BASS	.	296	410	.	.
LARGEMOUTH BASS	.	212	135	.	.
LARGEMOUTH BASS	YOY	54	3	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
LARGEMOUTH BASS	YOY	56	3	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	YOY	45	1	.	.
LARGEMOUTH BASS	YOY	44	1	.	.
LARGEMOUTH BASS	YOY	48	2	.	.
LARGEMOUTH BASS	YOY	47	2	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
FRESHWATER DRUM	.	220	145	.	.

SITE: DESPLAINES LOCATION: 419A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 03JUL13:16:56 END DATE AND TIME: 03JUL13:17:34

GIZZARD SHAD	.	315	340	.	.
GIZZARD SHAD	.	227	105	.	.
GIZZARD SHAD	.	267	180	.	.
GIZZARD SHAD	.	276	185	.	.
GIZZARD SHAD	.	177	50	.	.
COMMON CARP	.	270	300	.	.
COMMON CARP	.	271	305	.	.
COMMON CARP	.	643	3230	.	.
BLUNTNOSE MINNOW	YOY	.	.	3	1
BLUNTNOSE MINNOW	.	.	.	1	1
SMALLMOUTH BUFFALO	.	436	1375	.	.
GOLDEN REDHORSE	.	390	745	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	45	2	.	.
BLUEGILL	.	115	29	.	.
BLUEGILL	.	117	30	.	.
BLUEGILL	.	107	19	.	.
BLUEGILL	.	133	53	.	.
BLUEGILL	.	119	31	.	.
BLUEGILL	.	108	27	.	.
BLUEGILL	.	127	42	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	75	7	.	.
BLUEGILL	.	106	21	.	.
BLUEGILL	.	78	7	.	.
BLUEGILL	.	56	3	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	80	9	.	.
BLUEGILL	.	85	11	.	.
BLUEGILL	.	97	17	.	.
BLUEGILL	.	74	7	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	69	6	.	.
NORTHERN SUNFISH	.	58	4	.	.
NORTHERN SUNFISH	.	60	5	.	.
SMALLMOUTH BASS	.	163	59	.	.
LARGEMOUTH BASS	.	278	240	.	.
LARGEMOUTH BASS	.	250	240	.	.
LARGEMOUTH BASS	.	205	95	.	.
LARGEMOUTH BASS	.	220	160	.	.
LARGEMOUTH BASS	.	200	85	.	.
LARGEMOUTH BASS	YOY	53	2	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
LARGEMOUTH BASS	.	117	20	.	.

SITE: DESPLAINES LOCATION: 402 GEAR: SEINE MESOHABITAT: .
 START DATE AND TIME: 02JUL13:12:40 END DATE AND TIME: 02JUL13:12:46

BLACKSTRIPE TOPMINNOW	.	.	.	2	4
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SITE: DESPLAINES LOCATION: 403A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 02JUL13:09:16 END DATE AND TIME: 02JUL13:09:20

SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	7	17
BLUNTNOSE MINNOW	YOY	.	.	102	26
WHITE SUCKER	YOY	35	1	.	.
PUMPKINSEED	.	94	21	.	.
PUMPKINSEED	.	95	20	.	.
BLUEGILL	.	41	1	.	.
BLUEGILL	.	66	5	.	.
BLUEGILL	.	98	17	.	.
Lepomis sp.	YOY	26	1	.	.
LARGEMOUTH BASS	YOY	37	1	.	.
LARGEMOUTH BASS	YOY	30	1	.	.
LARGEMOUTH BASS	YOY	36	1	.	.
LARGEMOUTH BASS	YOY	44	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	-----	-----	-----	-----	-----
ROUND GOBY	YOY	28	1	.	.
ROUND GOBY	YOY	30	1	.	.
ROUND GOBY	YOY	28	1	.	.
SITE: DESPLAINES LOCATION: 404A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 02JUL13:09:00		END DATE AND TIME: 02JUL13:09:07			
Dorosoma sp.	YOY	16	1	.	.
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	YOY	.	.	2	1
BLUEGILL	.	81	10	.	.
BLUEGILL	.	75	8	.	.
SITE: DESPLAINES LOCATION: 405		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 02JUL13:08:44		END DATE AND TIME: 02JUL13:08:52			
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	YOY	.	.	11	2
FATHEAD MINNOW	YOY	.	.	4	1
LARGEMOUTH BASS	YOY	33	1	.	.
LARGEMOUTH BASS	YOY	35	1	.	.
LARGEMOUTH BASS	YOY	36	1	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
LARGEMOUTH BASS	YOY	42	1	.	.
LARGEMOUTH BASS	YOY	33	1	.	.
LARGEMOUTH BASS	YOY	39	1	.	.
LARGEMOUTH BASS	YOY	37	1	.	.
LARGEMOUTH BASS	YOY	31	1	.	.
LARGEMOUTH BASS	YOY	30	1	.	.
LARGEMOUTH BASS	YOY	34	1	.	.
LARGEMOUTH BASS	YOY	31	1	.	.
LARGEMOUTH BASS	YOY	34	1	.	.
LARGEMOUTH BASS	YOY	37	1	.	.
LARGEMOUTH BASS	YOY	30	1	.	.
LARGEMOUTH BASS	YOY	36	1	.	.
JOHNNY DARTER	.	.	.	1	1
ORANGETHROAT DARTER	.	.	.	3	1
SITE: DESPLAINES LOCATION: 408		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 02JUL13:08:24		END DATE AND TIME: 02JUL13:08:31			
LONGNOSE GAR	.	136	5	.	.
HORNHEAD CHUB	YOY	.	.	1	1
STRIPED SHINER	YOY	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	1	2
BLUNTNOSE MINNOW	YOY	.	.	33	7
BLACKSTRIPE TOPMINNOW	YOY	.	.	1	1
ORANGESPOTTED SUNFISH	.	65	6	.	.
ORANGESPOTTED SUNFISH	.	62	5	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	48	2	.	.
LARGEMOUTH BASS	YOY	44	1	.	.
LARGEMOUTH BASS	YOY	53	2	.	.
LARGEMOUTH BASS	YOY	50	2	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
BLACKSIDE DARTER	YOY	.	.	1	1
SITE: DESPLAINES LOCATION: 412A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 03JUL13:18:19		END DATE AND TIME: 03JUL13:18:25			
BLUNTNOSE MINNOW	YOY	.	.	10	2
BLUEGILL	.	82	12	.	.
SITE: DESPLAINES LOCATION: 414		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 03JUL13:14:37		END DATE AND TIME: 03JUL13:14:45			
LONGNOSE GAR	.	121	3	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	1	2
LARGEMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	YOY	39	1	.	.
LARGEMOUTH BASS	YOY	42	1	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
LARGEMOUTH BASS	YOY	50	2	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	YOY	46	2	.	.
LARGEMOUTH BASS	YOY	50	2	.	.
LARGEMOUTH BASS	YOY	51	2	.	.
LARGEMOUTH BASS	YOY	47	2	.	.
LARGEMOUTH BASS	YOY	36	1	.	.
LARGEMOUTH BASS	YOY	47	2	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
LARGEMOUTH BASS	YOY	49	2	.	.
LARGEMOUTH BASS	YOY	37	1	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
LARGEMOUTH BASS	YOY	53	2	.	.
LARGEMOUTH BASS	YOY	51	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

LARGEMOUTH BASS	YOY	56	3	.	.
LARGEMOUTH BASS	YOY	54	2	.	.
LARGEMOUTH BASS	YOY	48	2	.	.
LARGEMOUTH BASS	YOY	45	2	.	.
SITE: DESPLAINES LOCATION: 418		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 03JUL13:15:05		END DATE AND TIME: 03JUL13:15:15		.	
BROOK SILVERSIDE	YOY	.	.	17	3
BLUEGILL	.	155	76	.	.
BLUEGILL	.	68	6	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	13	.	.	.
Lepomis sp.	YOY	12	.	.	1
Lepomis sp.	YOY	.	.	1	1
SITE: DESPLAINES LOCATION: 419A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 03JUL13:18:04		END DATE AND TIME: 03JUL13:18:10		.	
SPOTFIN SHINER	.	.	.	1	2
BLUNTNOSE MINNOW	YOY	.	.	16	3
Lepomis sp.	YOY	12	1	.	.
Lepomis sp.	YOY	12	1	.	.
LARGEMOUTH BASS	.	135	39	.	.
SITE: SHIP CANAL LOCATION: 302A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 01JUL13:11:20		END DATE AND TIME: 01JUL13:11:26		.	
ROUND GOBY	YOY	26	1	.	.
SITE: SHIP CANAL LOCATION: 304		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 01JUL13:13:53		END DATE AND TIME: 01JUL13:14:02		.	
BLUNTNOSE MINNOW	YOY	.	.	3	1
PUMPKINSEED	.	89	20	.	.
PUMPKINSEED	.	84	15	.	.
PUMPKINSEED	.	77	11	.	.
SMALLMOUTH BASS	YOY	19	1	.	.
LARGEMOUTH BASS	YOY	45	2	.	.
LARGEMOUTH BASS	YOY	36	1	.	.
LARGEMOUTH BASS	YOY	38	1	.	.
JOHNNY DARTER	.	.	.	2	1
SITE: SHIP CANAL LOCATION: 305		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 01JUL13:13:40		END DATE AND TIME: 01JUL13:13:47		.	
BLUNTNOSE MINNOW	.	.	.	10	31
BANDED KILLIFISH	.	.	.	2	12
ROUND GOBY	YOY	29	1	.	.
ROUND GOBY	YOY	25	1	.	.
ROUND GOBY	.	65	4	.	.
ROUND GOBY	.	63	4	.	.
ROUND GOBY	.	67	5	.	.
SITE: SHIP CANAL LOCATION: 306		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 01JUL13:13:28		END DATE AND TIME: 01JUL13:13:34		.	
BLUNTNOSE MINNOW	.	.	.	36	18
WHITE SUCKER	YOY	51	2	.	.
WHITE SUCKER	YOY	42	1	.	.
TADPOLE MADTOM	.	51	2	.	.
PUMPKINSEED	.	83	14	.	.
BLUEGILL	.	129	52	.	.
BLUEGILL	YOY	52	3	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
LARGEMOUTH BASS	YOY	43	1	.	.
LARGEMOUTH BASS	YOY	43	1	.	.
LARGEMOUTH BASS	YOY	37	1	.	.
ROUND GOBY	YOY	24	1	.	.
SITE: SHIP CANAL LOCATION: 307		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 01JUL13:13:16		END DATE AND TIME: 01JUL13:13:24		.	
BLUEGILL	.	59	4	.	.
LARGEMOUTH BASS	YOY	37	1	.	.
LARGEMOUTH BASS	YOY	35	1	.	.
LARGEMOUTH BASS	YOY	36	1	.	.
LARGEMOUTH BASS	YOY	40	1	.	.
ROUND GOBY	YOY	19	1	.	.
ROUND GOBY	YOY	25	1	.	.
ROUND GOBY	YOY	20	1	.	.
ROUND GOBY	YOY	20	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: SHIP CANAL LOCATION: 301 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 01JUL13:08:47 END DATE AND TIME: 01JUL13:09:24					
NO FISH				0	
SITE: SHIP CANAL LOCATION: 302 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 01JUL13:09:49 END DATE AND TIME: 01JUL13:10:12					
LONGNOSE GAR		683	740		
GIZZARD SHAD		151	33		
SITE: SHIP CANAL LOCATION: 302A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 01JUL13:11:37 END DATE AND TIME: 01JUL13:12:04					
GIZZARD SHAD		310	320		
GIZZARD SHAD		312	330		
GIZZARD SHAD		352	495		
COMMON CARP		511	2000		
COMMON CARP		427	1210		
COMMON CARP		651	4000		
EMERALD SHINER				1	4
SPOTFIN SHINER				1	6
BLUNTNOSE MINNOW				2	5
BANDED KILLIFISH				2	10
GREEN SUNFISH		96	21		
GREEN SUNFISH		96	22		
PUMPKINSEED		150	90		
PUMPKINSEED		107	30		
PUMPKINSEED		117	41		
PUMPKINSEED		108	31		
PUMPKINSEED		77	10		
PUMPKINSEED		72	8		
PUMPKINSEED		76	10		
PUMPKINSEED		94	19		
PUMPKINSEED		106	33		
BLUEGILL		88	16		
BLUEGILL		94	20		
BLUEGILL		88	15		
BLUEGILL		85	13		
BLUEGILL		73	7		
BLUEGILL		71	8		
LARGEMOUTH BASS		273	280		
LARGEMOUTH BASS	YOY	40	1		
LARGEMOUTH BASS	YOY	37	1		
LARGEMOUTH BASS	YOY	48	2		
LARGEMOUTH BASS	YOY	51	2		
LARGEMOUTH BASS	YOY	57	3		
LARGEMOUTH BASS	YOY	52	2		
LARGEMOUTH BASS	YOY	40	1		
SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 01JUL13:10:31 END DATE AND TIME: 01JUL13:11:04					
BLUNTNOSE MINNOW				35	145
ORIENTAL WEATHERFISH		135	17		
ORIENTAL WEATHERFISH		88	4		
ORIENTAL WEATHERFISH		105	7		
ORIENTAL WEATHERFISH		99	7		
CHANNEL CATFISH	YOY	72	3		
BLACKSTRIPE TOPMINNOW				1	1
GREEN SUNFISH		71	8		
GREEN SUNFISH		105	30		
GREEN SUNFISH		91	17		
GREEN SUNFISH		81	15		
GREEN SUNFISH		56	4		
GREEN SUNFISH		71	8		
GREEN SUNFISH		81	12		
GREEN SUNFISH		65	6		
GREEN SUNFISH		73	9		
GREEN SUNFISH		80	15		
GREEN SUNFISH		54	4		
GREEN SUNFISH		77	10		
GREEN SUNFISH		61	5		
GREEN SUNFISH		53	3		
GREEN SUNFISH		65	6		
GREEN SUNFISH		65	6		
GREEN SUNFISH		56	4		
GREEN SUNFISH		56	5		
PUMPKINSEED		126	42		
PUMPKINSEED		120	35		
PUMPKINSEED		112	28		
PUMPKINSEED		66	6		
BLUEGILL		72	8		
BLUEGILL		68	6		
LARGEMOUTH BASS	YOY	43	1		
LARGEMOUTH BASS	YOY	41	1		
LARGEMOUTH BASS	YOY			1	1

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	YOY	50	2	.	.
LARGEMOUTH BASS	YOY	49	2	.	.

SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 01JUL13:15:21 END DATE AND TIME: 01JUL13:15:48

GIZZARD SHAD	.	392	550	.	.
GIZZARD SHAD	.	126	20	.	.
GIZZARD SHAD	.	136	26	.	.
GIZZARD SHAD	.	119	17	.	.
GIZZARD SHAD	.	125	20	.	.
GREEN SUNFISH	.	118	38	.	.
GREEN SUNFISH	.	119	41	.	.
GREEN SUNFISH	.	105	30	.	.
GREEN SUNFISH	.	81	12	.	.
LARGEMOUTH BASS	YOY	40	1	.	.

SITE: SHIP CANAL LOCATION: 304 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 01JUL13:14:16 END DATE AND TIME: 01JUL13:14:36

GIZZARD SHAD	.	268	147	.	.
GIZZARD SHAD	.	138	31	.	.
GIZZARD SHAD	.	127	22	.	.
GIZZARD SHAD	.	121	18	.	.
GIZZARD SHAD	.	106	14	.	.
NORTHERN PIKE	.	178	43	.	.
GOLDFISH	.	192	145	.	.
COMMON CARP	.	560	2550	.	.
COMMON CARP	.	502	1960	.	.
COMMON CARP	.	522	2180	.	.
COMMON CARP	.	460	1340	.	.
COMMON CARP	.	497	1680	.	.
COMMON CARP	.	418	1105	.	.
COMMON CARP	.	446	1340	.	.
SPOTFIN SHINER	.	.	.	1	5
BLUNTNOSE MINNOW	.	.	.	15	31
YELLOW BULLHEAD	.	256	250	.	.
CHANNEL CATFISH	.	531	1300	.	.
CHANNEL CATFISH	.	412	650	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	1	2
YELLOW BASS	.	93	11	.	.
PUMPKINSEED	.	71	7	.	.
PUMPKINSEED	.	77	11	.	.
PUMPKINSEED	.	106	33	.	.
PUMPKINSEED	.	89	17	.	.
PUMPKINSEED	.	83	13	.	.
PUMPKINSEED	.	77	11	.	.
PUMPKINSEED	.	86	16	.	.
PUMPKINSEED	.	70	8	.	.
BLUEGILL	.	102	24	.	.
BLUEGILL	.	98	20	.	.
BLUEGILL	.	100	24	.	.
BLUEGILL	.	109	31	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	75	9	.	.
SMALLMOUTH BASS	.	250	170	.	.
SMALLMOUTH BASS	.	288	315	.	.
LARGEMOUTH BASS	YOY	65	4	.	.
FRESHWATER DRUM	.	398	860	.	.
FRESHWATER DRUM	.	403	940	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 01JUL13:16:20 END DATE AND TIME: 01JUL13:16:56

GIZZARD SHAD	.	182	57	.	.
GIZZARD SHAD	.	295	265	.	.
GIZZARD SHAD	.	238	125	.	.
GIZZARD SHAD	.	156	44	.	.
GIZZARD SHAD	.	140	29	.	.
GIZZARD SHAD	.	183	60	.	.
GIZZARD SHAD	.	140	30	.	.
GIZZARD SHAD	.	209	86	.	.
GIZZARD SHAD	.	.	.	2	100
GIZZARD SHAD	.	.	.	1	175
GIZZARD SHAD	.	.	.	3	545
GIZZARD SHAD	.	.	.	42	1650
GIZZARD SHAD	YOY	52	1	.	.
GIZZARD SHAD	YOY	50	1	.	.
GIZZARD SHAD	YOY	51	1	.	.
GIZZARD SHAD	.	100	11	.	.
GIZZARD SHAD	YOY	60	2	.	.
GIZZARD SHAD	YOY	50	1	.	.
GIZZARD SHAD	YOY	53	1	.	.
GIZZARD SHAD	YOY	61	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	YOY	54	2	.	.
GIZZARD SHAD	YOY	54	2	.	.
GIZZARD SHAD	YOY	55	2	.	.
GIZZARD SHAD	.	135	26	.	.
GIZZARD SHAD	.	131	25	.	.
GIZZARD SHAD	.	136	27	.	.
GIZZARD SHAD	.	139	28	.	.
GIZZARD SHAD	.	129	26	.	.
GIZZARD SHAD	.	160	47	.	.
GIZZARD SHAD	.	127	21	.	.
GIZZARD SHAD	.	112	18	.	.
GIZZARD SHAD	.	142	29	.	.
GIZZARD SHAD	.	141	32	.	.
GIZZARD SHAD	.	170	47	.	.
GIZZARD SHAD	.	.	.	7	159
COMMON CARP	.	537	2240	.	.
ORIENTAL WEATHERFISH	.	121	12	.	.
ORIENTAL WEATHERFISH	.	102	7	.	.
ORIENTAL WEATHERFISH	.	128	15	.	.
YELLOW BULLHEAD	.	203	130	.	.
YELLOW BULLHEAD	.	163	70	.	.
TADPOLE MADTOM	.	57	3	.	.
BLACKSTRIPED TOPMINNOW	.	.	.	2	4
PUMPKINSEED	.	117	33	.	.
PUMPKINSEED	.	94	16	.	.
ORANGESPOTTED SUNFISH	YOY	41	1	.	.
ORANGESPOTTED SUNFISH	YOY	47	2	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	YOY	44	2	.	.
LARGEMOUTH BASS	YOY	55	2	.	.
LARGEMOUTH BASS	YOY	64	3	.	.
LARGEMOUTH BASS	YOY	61	3	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	YOY	51	2	.	.
ROUND GOBY	.	62	4	.	.
ROUND GOBY	.	68	5	.	.
ROUND GOBY	.	66	5	.	.
ROUND GOBY	.	61	3	.	.
ROUND GOBY	.	64	4	.	.
ROUND GOBY	.	60	3	.	.
ROUND GOBY	.	62	4	.	.
ROUND GOBY	.	61	3	.	.
ROUND GOBY	.	69	5	.	.
ROUND GOBY	.	61	4	.	.

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 01JUL13:17:21 END DATE AND TIME: 01JUL13:17:46

GIZZARD SHAD	.	367	360	.	.
GIZZARD SHAD	.	347	385	.	.
GIZZARD SHAD	.	244	135	.	.
GIZZARD SHAD	.	271	175	.	.
GIZZARD SHAD	.	176	46	.	.
GIZZARD SHAD	.	187	69	.	.
GIZZARD SHAD	.	136	28	.	.
GIZZARD SHAD	.	130	20	.	.
GIZZARD SHAD	.	129	22	.	.
GIZZARD SHAD	.	146	32	.	.
GIZZARD SHAD	.	132	23	.	.
GIZZARD SHAD	.	154	37	.	.
GIZZARD SHAD	.	157	40	.	.
GIZZARD SHAD	.	169	47	.	.
GIZZARD SHAD	.	113	16	.	.
GIZZARD SHAD	.	177	57	.	.
GIZZARD SHAD	.	138	28	.	.
GIZZARD SHAD	.	155	44	.	.
GIZZARD SHAD	.	159	41	.	.
GOLDFISH	.	140	52	.	.
COMMON CARP	.	570	2810	.	.
COMMON CARP	.	592	3400	.	.
COMMON CARP	.	602	3620	.	.
BLUNTNOSE MINNOW	.	.	.	3	7
YELLOW BULLHEAD	.	127	32	.	.
CHANNEL CATFISH	.	419	740	.	.
CHANNEL CATFISH	.	415	800	.	.
GREEN SUNFISH	.	61	5	.	.
PUMPKINSEED	.	145	62	.	.
ORANGESPOTTED SUNFISH	YOY	49	2	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
LARGEMOUTH BASS	YOY	37	4	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
FRESHWATER DRUM	.	426	1135	.	.
FRESHWATER DRUM	.	430	1020	.	.
ROUND GOBY	.	66	4	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

SITE: SHIP CANAL LOCATION: 307		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 01JUL13:18:15		END DATE AND TIME: 01JUL13:18:49			
GIZZARD SHAD	.	115	17	.	.
GIZZARD SHAD	YOY	56	2	.	.
GIZZARD SHAD	YOY	43	1	.	.
THREADFIN SHAD	YOY	61	3	.	.
THREADFIN SHAD	YOY	55	2	.	.
THREADFIN SHAD	YOY	50	2	.	.
THREADFIN SHAD	YOY	58	2	.	.
THREADFIN SHAD	YOY	53	2	.	.
THREADFIN SHAD	YOY	51	2	.	.
THREADFIN SHAD	YOY	50	2	.	.
THREADFIN SHAD	YOY	52	2	.	.
THREADFIN SHAD	YOY	50	2	.	.
THREADFIN SHAD	YOY	48	1	.	.
COMMON CARP	.	539	2045	.	.
BLUNTNOSSE MINNOW	.	.	.	1	3
ORIENTAL WEATHERFISH	.	135	20	.	.
GREEN SUNFISH	.	79	13	.	.
GREEN SUNFISH	.	57	4	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	64	6	.	.
GREEN SUNFISH	.	56	4	.	.
GREEN SUNFISH	.	53	3	.	.
GREEN SUNFISH	.	53	4	.	.
GREEN SUNFISH	.	53	4	.	.
GREEN SUNFISH	.	46	2	.	.
GREEN SUNFISH	.	51	3	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	47	2	.	.
LARGEMOUTH BASS	YOY	58	3	.	.
LARGEMOUTH BASS	YOY	39	1	.	.
LARGEMOUTH BASS	YOY	31	1	.	.
LARGEMOUTH BASS	YOY	41	1	.	.
ROUND GOBY	YOY	25	1	.	.
ROUND GOBY	YOY	28	1	.	.
ROUND GOBY	YOY	23	1	.	.
ROUND GOBY	.	68	6	.	.
ROUND GOBY	.	71	6	.	.
ROUND GOBY	.	76	7	.	.
ROUND GOBY	.	68	5	.	.
ROUND GOBY	.	65	4	.	.

SITE: SHIP CANAL LOCATION: 309		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 02JUL13:11:10		END DATE AND TIME: 02JUL13:11:39			
GIZZARD SHAD	YOY	54	2	.	.
GIZZARD SHAD	YOY	44	1	.	.
GIZZARD SHAD	YOY	53	2	.	.
GOLDFISH	.	129	43	.	.
COMMON CARP	.	508	1870	.	.
COMMON CARP	.	571	2400	.	.
BLUEGILL	.	120	39	.	.
SMALLMOUTH BASS	YOY	36	1	.	.
LARGEMOUTH BASS	YOY	44	1	.	.
LARGEMOUTH BASS	YOY	34	1	.	.
LARGEMOUTH BASS	YOY	42	1	.	.
LARGEMOUTH BASS	YOY	43	1	.	.
FRESHWATER DRUM	.	381	680	.	.

SITE: DESPLAINES LOCATION: 402		GEAR: SEINE MESOHABITAT:			
START DATE AND TIME: 16JUL13:07:56		END DATE AND TIME: 16JUL13:08:02			
ROUND GOBY	YOY	28	1	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	23	1	.	.
ROUND GOBY	YOY	31	1	.	.
ROUND GOBY	YOY	24	1	.	.

SITE: DESPLAINES LOCATION: 403A		GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 16JUL13:07:36		END DATE AND TIME: 16JUL13:07:42			
SAND SHINER	.	.	.	1	1
BLUNTNOSSE MINNOW	.	.	.	178	97
PUMPKINSEED	.	96	24	.	.
BLUEGILL	.	86	13	.	.
BLUEGILL	.	69	7	.	.
LARGEMOUTH BASS	YOY	53	3	.	.
LARGEMOUTH BASS	YOY	58	3	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

SITE: DESPLAINES LOCATION: 404A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 16JUL13:07:16		END DATE AND TIME: 16JUL13:07:22			
STRIPED SHINER	.	.	.	3	2
BLUNTNOSE MINNOW	.	.	.	122	68
ROCK BASS	YOY	20	1	.	.
BLUEGILL	YOY	27	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	31	1	.	.
LARGEMOUTH BASS	YOY	62	4	.	.
SITE: DESPLAINES LOCATION: 405		GEAR: SEINE		MESOHABITAT:	.
START DATE AND TIME: 16JUL13:06:59		END DATE AND TIME: 16JUL13:07:05			
NORTHERN SUNFISH	.	87	18	.	.
SITE: DESPLAINES LOCATION: 408		GEAR: SEINE		MESOHABITAT:	.
START DATE AND TIME: 16JUL13:06:42		END DATE AND TIME: 16JUL13:06:49			
CENTRAL STONEROLLER	.	.	.	1	1
STRIPED SHINER	.	.	.	7	5
BLUNTNOSE MINNOW	YOY	.	.	38	15
BLACKSTRIPE TOPMINNOW	YOY	.	.	10	4
WESTERN MOSQUITOFISH	.	30	1	.	.
WESTERN MOSQUITOFISH	.	37	1	.	.
ORANGESPOTTED SUNFISH	YOY	45	2	.	.
BLUEGILL	YOY	28	.	.	.
BLUEGILL	YOY	26	.	.	.
BLUEGILL	YOY	26	.	.	.
BLUEGILL	YOY	27	.	.	.
BLUEGILL	YOY	25	.	.	2
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	17	.	.	.
Lepomis sp.	YOY	17	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	18	.	.	.
Lepomis sp.	YOY	17	.	.	.
Lepomis sp.	YOY	17	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	17	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	18	.	.	5
Lepomis sp.	YOY	.	.	13	2
SITE: DESPLAINES LOCATION: 412A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 17JUL13:06:53		END DATE AND TIME: 17JUL13:07:00			
BLUNTNOSE MINNOW	YOY	.	.	77	27
SITE: DESPLAINES LOCATION: 414		GEAR: SEINE		MESOHABITAT:	.
START DATE AND TIME: 17JUL13:07:13		END DATE AND TIME: 17JUL13:07:19			
CENTRAL STONEROLLER	.	.	.	1	1
GOLDEN SHINER	.	.	.	1	1
STRIPED SHINER	.	.	.	4	2
STRIPED SHINER	.	.	.	1	1
SPOTTAIL SHINER	.	.	.	1	1
SPOTFIN SHINER	YOY	.	.	1	1
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	YOY	.	.	186	65
BLUNTNOSE MINNOW	YOY	.	.	5	1
BULLHEAD MINNOW	.	.	.	1	3
BULLHEAD MINNOW	YOY	.	.	3	1
WESTERN MOSQUITOFISH	YOY	20	1	.	.
GREEN SUNFISH	.	85	17	.	.
BLUEGILL	.	108	31	.	.
Lepomis sp.	YOY	22	1	.	.
Lepomis sp.	YOY	17	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	-----	-----	-----	-----	-----
Lepomis sp.	YOY	19	1	.	.
LARGEMOUTH BASS	YOY	58	4	.	.
LARGEMOUTH BASS	YOY	65	4	.	.
LARGEMOUTH BASS	YOY	56	3	.	.
LARGEMOUTH BASS	YOY	58	3	.	.
LARGEMOUTH BASS	YOY	47	2	.	.
SITE: DESPLAINES LOCATION: 418 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 17JUL13:10:30 END DATE AND TIME: 17JUL13:10:36					
BLUNTNose MINNOW	YOY	.	.	37	15
BROOK SILVERSIDE	YOY	.	.	6	2
BLUEGILL	.	77	10	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	29	1	.	.
SITE: DESPLAINES LOCATION: 419A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 17JUL13:13:42 END DATE AND TIME: 17JUL13:13:48					
GREEN SUNFISH	.	123	45	.	.
BLUEGILL	.	88	15	.	.
BLUEGILL	.	129	42	.	.
SITE: DESPLAINES LOCATION: 402 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 16JUL13:08:25 END DATE AND TIME: 16JUL13:08:58					
GIZZARD SHAD	.	355	365	.	.
GOLDFISH	.	170	85	.	.
GOLDFISH	.	160	65	.	.
COMMON CARP	.	741	6100	.	.
COMMON CARP	.	510	1790	.	.
COMMON CARP	.	545	2680	.	.
COMMON CARP	.	602	2915	.	.
COMMON CARP	.	542	2380	.	.
COMMON CARP	.	512	2080	.	.
COMMON CARP	.	183	104	.	.
SPOTTAIL SHINER	.	.	.	1	1
BLUNTNose MINNOW	.	.	.	4	3
RIVER CARPSUCKER	.	421	1010	.	.
WHITE SUCKER	.	360	515	.	.
CHANNEL CATFISH	.	504	1410	.	.
CHANNEL CATFISH	.	488	1110	.	.
CHANNEL CATFISH	.	365	450	.	.
ROCK BASS	.	212	170	.	.
ROCK BASS	.	187	135	.	.
ROCK BASS	.	96	21	.	.
GREEN SUNFISH	.	73	8	.	.
GREEN SUNFISH	.	76	9	.	.
GREEN SUNFISH	.	67	7	.	.
GREEN SUNFISH	.	61	5	.	.
GREEN SUNFISH	.	82	13	.	.
GREEN SUNFISH	YOY	47	2	.	.
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	67	7	.	.
GREEN SUNFISH	.	121	39	.	.
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	72	8	.	.
PUMPKINSEED	YOY	63	6	.	.
BLUEGILL	.	150	77	.	.
BLUEGILL	.	143	65	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	80	9	.	.
BLUEGILL	.	80	9	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	.	77	8	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	.	46	2	.	.
BLUEGILL	.	44	2	.	.
BLUEGILL	.	43	2	.	.
Lepomis HYBRID	.	.	.	1	80
Lepomis HYBRID	.	.	.	3	39
LARGEMOUTH BASS	.	335	460	.	.
LARGEMOUTH BASS	.	310	425	.	.
LARGEMOUTH BASS	.	254	220	.	.
LARGEMOUTH BASS	.	210	130	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

SITE: DESPLAINES	LOCATION: 402A	GEAR: ELECTRO	MESOHABITAT: MAIN CHANNEL BORDER		
START DATE AND TIME: 16JUL13:09:28		END DATE AND TIME: 16JUL13:10:05			
GIZZARD SHAD	.	285	220	.	.
GIZZARD SHAD	.	262	195	.	.
GIZZARD SHAD	.	272	190	.	.
GIZZARD SHAD	.	215	95	.	.
GIZZARD SHAD	.	220	105	.	.
GIZZARD SHAD	.	218	100	.	.
GIZZARD SHAD	.	231	120	.	.
GIZZARD SHAD	.	243	160	.	.
GIZZARD SHAD	.	245	140	.	.
GIZZARD SHAD	.	294	180	.	.
COMMON CARP	.	.	.	1	1000
COMMON CARP	.	391	900	.	.
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	5	8
SMALLMOUTH BUFFALO	.	455	1570	.	.
SMALLMOUTH BUFFALO	.	421	960	.	.
SMALLMOUTH BUFFALO	.	510	1730	.	.
CHANNEL CATFISH	.	458	950	.	.
GREEN SUNFISH	.	160	80	.	.
GREEN SUNFISH	.	127	54	.	.
GREEN SUNFISH	.	107	34	.	.
GREEN SUNFISH	.	90	20	.	.
GREEN SUNFISH	.	52	3	.	.
PUMPKINSEED	.	110	29	.	.
PUMPKINSEED	YOY	67	6	.	.
BLUEGILL	.	178	115	.	.
BLUEGILL	.	135	45	.	.
BLUEGILL	.	130	49	.	.
BLUEGILL	.	152	64	.	.
BLUEGILL	.	133	38	.	.
BLUEGILL	.	107	20	.	.
BLUEGILL	.	150	62	.	.
BLUEGILL	.	87	15	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	89	13	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	75	7	.	.
BLUEGILL	.	55	3	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	93	16	.	.
Lepomis HYBRID	.	.	.	1	28
LARGEMOUTH BASS	.	188	85	.	.
LARGEMOUTH BASS	.	353	610	.	.
LARGEMOUTH BASS	.	305	385	.	.
LARGEMOUTH BASS	.	161	55	.	.
LARGEMOUTH BASS	YOY	47	2	.	.
LARGEMOUTH BASS	YOY	46	1	.	.
SITE: DESPLAINES	LOCATION: 403	GEAR: ELECTRO	MESOHABITAT: MAIN CHANNEL BORDER		
START DATE AND TIME: 16JUL13:10:33		END DATE AND TIME: 16JUL13:11:14			
GIZZARD SHAD	.	302	245	.	.
GIZZARD SHAD	.	250	150	.	.
CHANNEL CATFISH	.	609	2150	.	.
GREEN SUNFISH	.	82	12	.	.
GREEN SUNFISH	.	106	30	.	.
GREEN SUNFISH	.	126	29	.	.
PUMPKINSEED	.	84	13	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	79	9	.	.
BLUEGILL	.	68	6	.	.
BLUEGILL	.	93	15	.	.
BLUEGILL	.	89	13	.	.
BLUEGILL	.	75	8	.	.
BLUEGILL	.	77	10	.	.
BLUEGILL	.	120	37	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	52	2	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	84	13	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	74	7	.	.
Lepomis HYBRID	.	.	.	1	40

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
Lepomis HYBRID	.	.	.	4	74
LARGEMOUTH BASS	.	273	300	.	.
SITE: DESPLAINES LOCATION: 403A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 16JUL13:11:50 END DATE AND TIME: 16JUL13:12:27					
GIZZARD SHAD	.	188	67	.	.
GIZZARD SHAD	.	192	64	.	.
GIZZARD SHAD	.	189	65	.	.
GIZZARD SHAD	.	182	59	.	.
GIZZARD SHAD	.	181	59	.	.
GIZZARD SHAD	.	172	51	.	.
GIZZARD SHAD	.	174	54	.	.
GIZZARD SHAD	.	242	120	.	.
GIZZARD SHAD	.	197	80	.	.
GIZZARD SHAD	.	188	67	.	.
COMMON CARP	.	482	1530	.	.
BLUNTNOSE MINNOW	.	.	.	1	1
SMALLMOUTH BUFFALO	.	423	1020	.	.
PUMPKINSEED	.	114	34	.	.
BLUEGILL	.	57	3	.	.
BLUEGILL	.	84	11	.	.
BLUEGILL	.	81	10	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	62	4	.	.
LARGEMOUTH BASS	.	342	600	.	.
LARGEMOUTH BASS	.	303	395	.	.
SITE: DESPLAINES LOCATION: 404A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 16JUL13:13:05 END DATE AND TIME: 16JUL13:13:38					
COMMON CARP	.	275	310	.	.
SPOTFIN SHINER	.	.	.	1	2
BLUNTNOSE MINNOW	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	1	1
CHANNEL CATFISH	.	544	1860	.	.
CHANNEL CATFISH	.	488	1290	.	.
CHANNEL CATFISH	.	515	1770	.	.
GREEN SUNFISH	.	148	72	.	.
GREEN SUNFISH	.	80	13	.	.
GREEN SUNFISH	.	91	17	.	.
BLUEGILL	.	137	51	.	.
BLUEGILL	.	94	19	.	.
BLUEGILL	.	84	14	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	78	11	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	.	88	13	.	.
BLUEGILL	.	88	14	.	.
LARGEMOUTH BASS	.	298	390	.	.
LARGEMOUTH BASS	.	270	290	.	.
LARGEMOUTH BASS	.	220	140	.	.
LARGEMOUTH BASS	.	231	165	.	.
LARGEMOUTH BASS	YOY	69	5	.	.
SITE: DESPLAINES LOCATION: 405 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 16JUL13:14:12 END DATE AND TIME: 16JUL13:14:45					
GIZZARD SHAD	.	312	260	.	.
GIZZARD SHAD	.	286	225	.	.
GIZZARD SHAD	.	222	106	.	.
GIZZARD SHAD	.	252	135	.	.
COMMON CARP	.	368	650	.	.
COMMON CARP	.	507	1860	.	.
SMALLMOUTH BUFFALO	.	454	1450	.	.
BLUEGILL	.	136	47	.	.
BLUEGILL	.	76	9	.	.
Lepomis HYBRID	.	.	.	1	14
LARGEMOUTH BASS	.	257	220	.	.
LARGEMOUTH BASS	.	368	710	.	.
LARGEMOUTH BASS	.	152	43	.	.
LARGEMOUTH BASS	.	175	61	.	.
LARGEMOUTH BASS	YOY	63	3	.	.
SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 16JUL13:15:15 END DATE AND TIME: 16JUL13:15:50					
GIZZARD SHAD	.	285	200	.	.
GIZZARD SHAD	.	177	57	.	.
GIZZARD SHAD	.	293	220	.	.
GIZZARD SHAD	.	292	290	.	.
GIZZARD SHAD	.	177	54	.	.
COMMON CARP	.	518	1560	.	.
COMMON CARP	.	470	1330	.	.
EMERALD SHINER	.	.	.	1	3
BLUNTNOSE MINNOW	.	.	.	1	1

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLACK BUFFALO	.	595	3720	.	.
YELLOW BULLHEAD	.	274	310	.	.
CHANNEL CATFISH	.	497	1300	.	.
CHANNEL CATFISH	.	565	1840	.	.
CHANNEL CATFISH	.	532	1560	.	.
CHANNEL CATFISH	.	512	1120	.	.
CHANNEL CATFISH	.	562	2110	.	.
GREEN SUNFISH	.	138	60	.	.
GREEN SUNFISH	.	102	23	.	.
GREEN SUNFISH	.	90	18	.	.
GREEN SUNFISH	.	83	14	.	.
GREEN SUNFISH	.	70	8	.	.
GREEN SUNFISH	.	56	4	.	.
GREEN SUNFISH	.	57	5	.	.
GREEN SUNFISH	.	51	3	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	71	8	.	.
PUMPKINSEED	.	104	29	.	.
BLUEGILL	.	141	67	.	.
BLUEGILL	.	150	50	.	.
BLUEGILL	.	132	51	.	.
BLUEGILL	.	123	40	.	.
BLUEGILL	.	132	43	.	.
BLUEGILL	.	128	33	.	.
BLUEGILL	.	135	50	.	.
BLUEGILL	.	124	39	.	.
BLUEGILL	.	166	96	.	.
BLUEGILL	.	139	51	.	.
BLUEGILL	.	95	20	.	.
BLUEGILL	.	104	28	.	.
BLUEGILL	.	89	16	.	.
BLUEGILL	.	87	12	.	.
BLUEGILL	.	75	10	.	.
BLUEGILL	.	104	22	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	90	16	.	.
BLUEGILL	.	77	10	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	107	25	.	.
BLUEGILL	.	105	28	.	.
BLUEGILL	.	82	11	.	.
NORTHERN SUNFISH	.	97	20	.	.
Lepomis HYBRID	.	.	.	1	70
Lepomis HYBRID	.	.	.	1	140
Lepomis HYBRID	.	.	.	3	67
Lepomis sp.	YOY	19	1	.	.
LARGEMOUTH BASS	.	293	290	.	.
LARGEMOUTH BASS	.	399	765	.	.
LARGEMOUTH BASS	.	404	1060	.	.
LARGEMOUTH BASS	.	407	1040	.	.
LARGEMOUTH BASS	.	241	220	.	.
LARGEMOUTH BASS	.	380	860	.	.
LARGEMOUTH BASS	.	260	250	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
LARGEMOUTH BASS	YOY	58	3	.	.
LARGEMOUTH BASS	YOY	47	2	.	.

SITE: DESPLAINES LOCATION: 412A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 17JUL13:07:46 END DATE AND TIME: 17JUL13:08:22

GIZZARD SHAD	.	301	215	.	.
GOLDEN SHINER	.	.	.	1	1
SPOTFIN SHINER	.	.	.	1	6
BLUNTNOSE MINNOW	YOY	.	.	12	4
GREEN SUNFISH	.	57	4	.	.
PUMPKINSEED	.	90	19	.	.
BLUEGILL	.	148	61	.	.
BLUEGILL	.	146	76	.	.
BLUEGILL	.	148	74	.	.
BLUEGILL	.	153	61	.	.
BLUEGILL	.	132	44	.	.
BLUEGILL	.	107	27	.	.
BLUEGILL	.	155	62	.	.
BLUEGILL	.	147	65	.	.
BLUEGILL	.	138	56	.	.
BLUEGILL	.	138	47	.	.
BLUEGILL	.	143	61	.	.
BLUEGILL	.	140	62	.	.
BLUEGILL	.	140	55	.	.
BLUEGILL	.	152	57	.	.
BLUEGILL	.	135	50	.	.
BLUEGILL	.	108	24	.	.
BLUEGILL	.	151	70	.	.
BLUEGILL	.	100	23	.	.
BLUEGILL	.	105	27	.	.
BLUEGILL	.	91	17	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	----	-----	-----	-----	-----
BLUEGILL	.	111	31	.	.
BLUEGILL	.	75	8	.	.
NORTHERN SUNFISH	.	82	14	.	.
NORTHERN SUNFISH	.	78	9	.	.
Lepomis HYBRID	.	.	.	1	76
LARGEMOUTH BASS	.	243	210	.	.
LARGEMOUTH BASS	.	258	240	.	.
LARGEMOUTH BASS	.	205	110	.	.
LARGEMOUTH BASS	.	270	285	.	.
LARGEMOUTH BASS	.	171	61	.	.
LARGEMOUTH BASS	YOY	53	2	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
LARGEMOUTH BASS	YOY	56	3	.	.
SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 17JUL13:08:55 END DATE AND TIME: 17JUL13:09:38					
GIZZARD SHAD	.	177	51	.	.
GIZZARD SHAD	.	273	210	.	.
GIZZARD SHAD	.	171	48	.	.
GIZZARD SHAD	.	247	115	.	.
GIZZARD SHAD	.	230	110	.	.
GIZZARD SHAD	.	177	54	.	.
GIZZARD SHAD	.	221	86	.	.
GREEN SUNFISH	.	127	41	.	.
GREEN SUNFISH	.	80	13	.	.
GREEN SUNFISH	.	92	18	.	.
GREEN SUNFISH	.	93	21	.	.
GREEN SUNFISH	.	69	7	.	.
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	61	5	.	.
GREEN SUNFISH	.	63	6	.	.
PUMPKINSEED	.	137	58	.	.
PUMPKINSEED	.	141	61	.	.
PUMPKINSEED	.	142	65	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	.	128	39	.	.
BLUEGILL	.	112	29	.	.
BLUEGILL	.	100	20	.	.
BLUEGILL	.	108	27	.	.
BLUEGILL	.	148	64	.	.
BLUEGILL	.	141	60	.	.
BLUEGILL	.	140	66	.	.
BLUEGILL	.	130	41	.	.
BLUEGILL	.	136	42	.	.
BLUEGILL	.	118	30	.	.
BLUEGILL	.	103	18	.	.
BLUEGILL	.	122	36	.	.
BLUEGILL	.	105	21	.	.
BLUEGILL	.	142	51	.	.
BLUEGILL	.	130	50	.	.
BLUEGILL	.	152	75	.	.
BLUEGILL	.	138	60	.	.
BLUEGILL	.	120	35	.	.
BLUEGILL	.	160	78	.	.
BLUEGILL	.	150	59	.	.
BLUEGILL	.	.	.	4	130
BLUEGILL	.	171	100	.	.
BLUEGILL	.	.	.	5	185
BLUEGILL	.	.	.	52	2315
BLUEGILL	.	104	26	.	.
BLUEGILL	.	64	5	.	.
BLUEGILL	.	53	3	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	77	10	.	.
BLUEGILL	.	.	.	15	276
NORTHERN SUNFISH	.	68	7	.	.
NORTHERN SUNFISH	.	70	8	.	.
Lepomis HYBRID	YOY	20	1	.	.
LARGEMOUTH BASS	.	172	54	.	.
LARGEMOUTH BASS	.	293	325	.	.
LARGEMOUTH BASS	.	321	530	.	.
LARGEMOUTH BASS	.	289	370	.	.
LARGEMOUTH BASS	.	268	220	.	.
LARGEMOUTH BASS	.	192	85	.	.
LARGEMOUTH BASS	YOY	62	4	.	.
LARGEMOUTH BASS	YOY	63	4	.	.
LARGEMOUTH BASS	YOY	67	4	.	.
LARGEMOUTH BASS	YOY	47	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 17JUL13:10:58 END DATE AND TIME: 17JUL13:11:40					

SPOTTED GAR	.	694	925	.	.
GIZZARD SHAD	.	270	165	.	.
GIZZARD SHAD	.	235	120	.	.
GIZZARD SHAD	.	282	210	.	.
GIZZARD SHAD	.	236	125	.	.
GIZZARD SHAD	.	237	135	.	.
GIZZARD SHAD	.	275	230	.	.
GIZZARD SHAD	.	240	120	.	.
GIZZARD SHAD	.	283	205	.	.
GIZZARD SHAD	.	288	210	.	.
GIZZARD SHAD	.	191	70	.	.
GIZZARD SHAD	.	247	150	.	.
GIZZARD SHAD	.	247	145	.	.
GIZZARD SHAD	.	197	65	.	.
GIZZARD SHAD	.	245	135	.	.
COMMON CARP	.	302	415	.	.
GOLDEN SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	4	8
QUILLBACK	.	472	1220	.	.
YELLOW BULLHEAD	.	258	265	.	.
CHANNEL CATFISH	.	475	1290	.	.
GREEN SUNFISH	.	126	39	.	.
GREEN SUNFISH	.	93	19	.	.
GREEN SUNFISH	.	84	14	.	.
GREEN SUNFISH	.	71	9	.	.
ORANGESPOTTED SUNFISH	.	65	6	.	.
BLUEGILL	.	106	20	.	.
BLUEGILL	.	123	35	.	.
BLUEGILL	.	173	90	.	.
BLUEGILL	.	150	65	.	.
BLUEGILL	.	122	32	.	.
BLUEGILL	.	123	32	.	.
BLUEGILL	.	110	24	.	.
BLUEGILL	.	125	36	.	.
BLUEGILL	.	164	91	.	.
BLUEGILL	.	138	57	.	.
BLUEGILL	.	144	60	.	.
BLUEGILL	.	150	61	.	.
BLUEGILL	.	137	50	.	.
BLUEGILL	.	157	91	.	.
BLUEGILL	.	132	49	.	.
BLUEGILL	.	123	34	.	.
BLUEGILL	.	127	40	.	.
BLUEGILL	.	108	27	.	.
BLUEGILL	.	152	62	.	.
BLUEGILL	.	120	32	.	.
BLUEGILL	.	110	21	.	.
BLUEGILL	.	97	15	.	.
BLUEGILL	.	122	32	.	.
BLUEGILL	.	138	52	.	.
BLUEGILL	.	108	26	.	.
BLUEGILL	.	105	26	.	.
BLUEGILL	.	97	22	.	.
BLUEGILL	.	73	9	.	.
BLUEGILL	.	73	8	.	.
BLUEGILL	.	80	11	.	.
BLUEGILL	.	71	8	.	.
BLUEGILL	.	81	11	.	.
BLUEGILL	.	74	9	.	.
BLUEGILL	.	71	7	.	.
LARGEMOUTH BASS	.	245	210	.	.
LARGEMOUTH BASS	.	351	720	.	.
LARGEMOUTH BASS	.	432	1220	.	.
LARGEMOUTH BASS	.	245	280	.	.
LARGEMOUTH BASS	.	263	240	.	.
LARGEMOUTH BASS	.	210	105	.	.
LARGEMOUTH BASS	YOY	67	4	.	.

SITE: DESPLAINES LOCATION: 419A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 17JUL13:12:45 END DATE AND TIME: 17JUL13:13:21					

GIZZARD SHAD	.	288	210	.	.
GIZZARD SHAD	.	295	230	.	.
GIZZARD SHAD	.	297	275	.	.
GIZZARD SHAD	.	362	385	.	.
RIVER CARPSUCKER	.	472	1280	.	.
GOLDEN REDHORSE	.	362	510	.	.
GREEN SUNFISH	.	110	34	.	.
GREEN SUNFISH	.	90	19	.	.
GREEN SUNFISH	.	52	4	.	.
BLUEGILL	.	165	82	.	.
BLUEGILL	.	147	66	.	.
BLUEGILL	.	152	67	.	.
BLUEGILL	.	150	57	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	142	62	.	.
BLUEGILL	.	167	94	.	.
BLUEGILL	.	161	91	.	.
BLUEGILL	.	162	82	.	.
BLUEGILL	.	147	52	.	.
BLUEGILL	.	114	23	.	.
BLUEGILL	.	170	105	.	.
BLUEGILL	.	138	49	.	.
BLUEGILL	.	121	37	.	.
BLUEGILL	.	112	30	.	.
BLUEGILL	.	103	20	.	.
BLUEGILL	.	112	29	.	.
BLUEGILL	.	77	10	.	.
BLUEGILL	.	110	26	.	.
BLUEGILL	.	64	6	.	.
BLUEGILL	.	97	14	.	.
BLUEGILL	.	106	27	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	108	19	.	.
LARGEMOUTH BASS	.	290	300	.	.
LARGEMOUTH BASS	.	290	325	.	.
LARGEMOUTH BASS	.	277	330	.	.
LARGEMOUTH BASS	.	265	225	.	.
LARGEMOUTH BASS	.	147	35	.	.
LARGEMOUTH BASS	.	273	300	.	.
LARGEMOUTH BASS	.	270	260	.	.
LARGEMOUTH BASS	.	235	170	.	.

SITE: SHIP CANAL LOCATION: 302A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15JUL13:10:15 END DATE AND TIME: 15JUL13:10:21

NO FISH . . . 0 .

SITE: SHIP CANAL LOCATION: 304 GEAR: SEINE MESOHABITAT: .
 START DATE AND TIME: 15JUL13:13:06 END DATE AND TIME: 15JUL13:13:15

BLUNTNOSE MINNOW	YOY	.	.	47	11
BLUNTNOSE MINNOW	YOY	.	.	4	1
BLACKSTRIPE TOPMINNOW	.	.	.	1	3
WESTERN MOSQUITOFISH	YOY	27	.	.	.
WESTERN MOSQUITOFISH	YOY	28	.	.	.
WESTERN MOSQUITOFISH	YOY	24	.	.	.
WESTERN MOSQUITOFISH	YOY	26	.	.	.
WESTERN MOSQUITOFISH	YOY	20	.	.	.
WESTERN MOSQUITOFISH	YOY	25	.	.	.
WESTERN MOSQUITOFISH	YOY	25	.	.	.
WESTERN MOSQUITOFISH	YOY	19	.	.	.
WESTERN MOSQUITOFISH	YOY	26	.	.	.
WESTERN MOSQUITOFISH	YOY	22	.	.	.
WESTERN MOSQUITOFISH	YOY	18	.	.	.
WESTERN MOSQUITOFISH	YOY	27	.	.	.
WESTERN MOSQUITOFISH	YOY	18	.	.	.
WESTERN MOSQUITOFISH	YOY	28	.	.	.
WESTERN MOSQUITOFISH	YOY	27	.	.	.
WESTERN MOSQUITOFISH	YOY	22	.	.	.
WESTERN MOSQUITOFISH	YOY	24	.	.	.
WESTERN MOSQUITOFISH	YOY	28	.	.	.
WESTERN MOSQUITOFISH	YOY	23	.	.	6
PUMPKINSEED	.	93	22	.	.
PUMPKINSEED	.	86	17	.	.
PUMPKINSEED	.	79	12	.	.
PUMPKINSEED	.	92	20	.	.
PUMPKINSEED	.	91	20	.	.
PUMPKINSEED	.	103	28	.	.
PUMPKINSEED	.	92	18	.	.
PUMPKINSEED	.	78	13	.	.
PUMPKINSEED	.	95	22	.	.
PUMPKINSEED	.	85	17	.	.
PUMPKINSEED	.	91	20	.	.
PUMPKINSEED	.	74	10	.	.
PUMPKINSEED	.	90	21	.	.
BLUEGILL	.	61	5	.	.
Lepomis sp.	YOY	19	1	.	.
LARGEMOUTH BASS	YOY	51	2	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
LARGEMOUTH BASS	.	75	7	.	.
LARGEMOUTH BASS	YOY	53	3	.	.
BLACK CRAPPIE	YOY	58	3	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15JUL13:12:51 END DATE AND TIME: 15JUL13:12:57

YELLOW BULLHEAD	YOY	31	1	.	.
BLACKSTRIPE TOPMINNOW	YOY	.	.	1	1
WESTERN MOSQUITOFISH	YOY	22	1	.	.
LARGEMOUTH BASS	YOY	50	2	.	.
LARGEMOUTH BASS	YOY	47	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

JOHNNY DARTER	.	.	.	1	1
ROUND GOBY	.	56	3	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	35	1	.	.
ROUND GOBY	YOY	20	1	.	.
SITE: SHIP CANAL LOCATION: 306		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 15JUL13:12:39		END DATE AND TIME: 15JUL13:12:46			
BLUNTNOSE MINNOW	YOY	.	.	5	1
BLACKSTRIPE TOPMINNOW	.	.	.	1	2
PUMPKINSEED	.	73	9	.	.
BLUEGILL	.	77	10	.	.
ROUND GOBY	.	64	4	.	.
ROUND GOBY	YOY	37	1	.	.
SITE: SHIP CANAL LOCATION: 307		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 15JUL13:12:28		END DATE AND TIME: 15JUL13:12:34			
BLUNTNOSE MINNOW	.	.	.	5	12
BLUNTNOSE MINNOW	YOY	.	.	1	1
PUMPKINSEED	.	89	19	.	.
PUMPKINSEED	.	82	12	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	60	4	.	.
BLUEGILL	.	69	6	.	.
BLUEGILL	.	58	4	.	.
BLUEGILL	YOY	54	3	.	.
LARGEMOUTH BASS	YOY	47	2	.	.
LARGEMOUTH BASS	YOY	37	1	.	.
ROUND GOBY	.	69	6	.	.
SITE: SHIP CANAL LOCATION: 301		GEAR: ELECTRO		MESOHABITAT:	
START DATE AND TIME: 15JUL13:07:00		END DATE AND TIME: 15JUL13:07:41			
GIZZARD SHAD	.	.	.	2	60
GREEN SUNFISH	.	.	.	1	20
ROUND GOBY	.	.	.	1	5
SITE: SHIP CANAL LOCATION: 302		GEAR: ELECTRO		MESOHABITAT:	
START DATE AND TIME: 15JUL13:07:56		END DATE AND TIME: 15JUL13:08:21			
GIZZARD SHAD	YOY	78	5	.	.
GIZZARD SHAD	YOY	89	7	.	.
GIZZARD SHAD	YOY	77	4	.	.
GIZZARD SHAD	YOY	81	5	.	.
THREADFIN SHAD	YOY	77	4	.	.
EMERALD SHINER	.	.	.	1	2
EMERALD SHINER	.	.	.	1	2
EMERALD SHINER	.	.	.	1	3
SPOTFIN SHINER	.	.	.	1	5
SPOTFIN SHINER	.	.	.	1	4
SITE: SHIP CANAL LOCATION: 302A		GEAR: ELECTRO		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 15JUL13:10:31		END DATE AND TIME: 15JUL13:11:04			
GIZZARD SHAD	.	311	270	.	.
COMMON CARP	.	632	4600	.	.
COMMON CARP	.	507	1850	.	.
COMMON CARP	.	556	2380	.	.
COMMON CARP	.	577	2590	.	.
COMMON CARP	.	605	3270	.	.
ORIENTAL WEATHERFISH	.	92	5	.	.
PUMPKINSEED	.	110	33	.	.
PUMPKINSEED	.	102	23	.	.
PUMPKINSEED	.	117	38	.	.
PUMPKINSEED	.	107	27	.	.
PUMPKINSEED	.	106	25	.	.
PUMPKINSEED	.	92	15	.	.
PUMPKINSEED	.	95	18	.	.
PUMPKINSEED	.	72	7	.	.
PUMPKINSEED	.	110	36	.	.
PUMPKINSEED	.	105	32	.	.
PUMPKINSEED	.	101	22	.	.
PUMPKINSEED	.	112	39	.	.
PUMPKINSEED	.	90	18	.	.
PUMPKINSEED	.	106	32	.	.
PUMPKINSEED	.	109	35	.	.
PUMPKINSEED	.	73	10	.	.
PUMPKINSEED	.	94	22	.	.
PUMPKINSEED	.	83	13	.	.
PUMPKINSEED	.	110	36	.	.
PUMPKINSEED	.	99	23	.	.
PUMPKINSEED	.	76	10	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
PUMPKINSEED	.	95	21	.	.
PUMPKINSEED	.	113	39	.	.
PUMPKINSEED	.	112	38	.	.
PUMPKINSEED	.	110	34	.	.
PUMPKINSEED	.	107	34	.	.
WARMOUTH	.	82	12	.	.
BLUEGILL	.	128	42	.	.
BLUEGILL	.	104	22	.	.
BLUEGILL	.	100	22	.	.
BLUEGILL	.	97	16	.	.
BLUEGILL	.	95	20	.	.
BLUEGILL	.	117	36	.	.
BLUEGILL	.	102	26	.	.
BLUEGILL	.	67	5	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	.	93	10	.	.
LARGEMOUTH BASS	YOY	42	1	.	.
LARGEMOUTH BASS	YOY	54	3	.	.

SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15JUL13:09:03 END DATE AND TIME: 15JUL13:09:41

GIZZARD SHAD	.	203	95	.	.
GIZZARD SHAD	.	284	260	.	.
GOLDEN SHINER	.	.	.	1	18
GOLDEN SHINER	.	.	.	1	8
BLUNTNOSE MINNOW	.	.	.	7	24
CHANNEL CATFISH	.	477	950	.	.
GREEN SUNFISH	.	71	8	.	.
GREEN SUNFISH	.	64	6	.	.
GREEN SUNFISH	.	79	11	.	.
GREEN SUNFISH	.	73	9	.	.
GREEN SUNFISH	.	71	8	.	.
GREEN SUNFISH	.	86	16	.	.
GREEN SUNFISH	.	68	9	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	81	15	.	.
PUMPKINSEED	.	127	53	.	.
PUMPKINSEED	.	127	44	.	.
PUMPKINSEED	.	131	53	.	.
PUMPKINSEED	.	123	50	.	.
PUMPKINSEED	.	124	34	.	.
PUMPKINSEED	.	115	29	.	.
PUMPKINSEED	.	118	32	.	.
PUMPKINSEED	.	114	30	.	.
PUMPKINSEED	.	120	40	.	.
PUMPKINSEED	.	140	60	.	.
PUMPKINSEED	.	155	85	.	.
PUMPKINSEED	.	120	35	.	.
PUMPKINSEED	.	117	33	.	.
PUMPKINSEED	.	118	32	.	.
PUMPKINSEED	.	117	40	.	.
PUMPKINSEED	.	120	38	.	.
PUMPKINSEED	.	123	39	.	.
PUMPKINSEED	.	116	36	.	.
PUMPKINSEED	.	122	38	.	.
PUMPKINSEED	.	.	.	15	350
PUMPKINSEED	.	.	.	1	33
PUMPKINSEED	.	.	.	8	245
PUMPKINSEED	.	.	.	1	35
PUMPKINSEED	.	100	25	.	.
PUMPKINSEED	.	104	28	.	.
PUMPKINSEED	.	109	32	.	.
PUMPKINSEED	.	105	28	.	.
PUMPKINSEED	.	90	20	.	.
PUMPKINSEED	.	98	24	.	.
PUMPKINSEED	.	71	7	.	.
PUMPKINSEED	.	89	16	.	.
PUMPKINSEED	.	105	34	.	.
PUMPKINSEED	.	105	33	.	.
PUMPKINSEED	.	100	28	.	.
PUMPKINSEED	.	109	32	.	.
BLUEGILL	.	127	42	.	.
BLUEGILL	.	110	22	.	.
BLUEGILL	.	103	16	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	82	12	.	.
BLUEGILL	.	78	10	.	.
BLUEGILL	.	85	14	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	.	97	23	.	.
BLUEGILL	.	88	17	.	.
BLUEGILL	.	101	29	.	.
BLUEGILL	.	69	7	.	.
BLUEGILL	.	91	17	.	.
BLUEGILL	.	91	16	.	.
BLUEGILL	.	75	8	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	76	8	.	.
BLUEGILL	.	84	13	.	.
BLUEGILL	.	87	16	.	.
BLUEGILL	.	91	17	.	.
BLUEGILL	.	92	21	.	.
BLUEGILL	.	94	18	.	.
BLUEGILL	.	89	16	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	85	14	.	.
BLUEGILL	.	86	14	.	.
BLUEGILL	.	75	9	.	.
BLUEGILL	.	91	16	.	.
BLUEGILL	.	98	23	.	.
BLUEGILL	.	86	12	.	.
LARGEMOUTH BASS	.	127	23	.	.

SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 15JUL13:14:44 END DATE AND TIME: 15JUL13:15:16

GIZZARD SHAD	.	331	325	.	.
GIZZARD SHAD	.	236	125	.	.
BLUNTNNOSE MINNOW	.	.	.	1	2
YELLOW BULLHEAD	.	142	44	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
FRESHWATER DRUM	.	335	450	.	.
FRESHWATER DRUM	.	355	475	.	.
FRESHWATER DRUM	.	380	790	.	.
ROUND GOBY	.	70	6	.	.

SITE: SHIP CANAL LOCATION: 304 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 15JUL13:13:40 END DATE AND TIME: 15JUL13:14:12

BLUNTNNOSE MINNOW	.	.	.	10	25
WHITE SUCKER	YOY	65	4	.	.
YELLOW BULLHEAD	.	190	105	.	.
YELLOW BULLHEAD	.	290	385	.	.
YELLOW BULLHEAD	.	196	120	.	.
YELLOW BULLHEAD	.	202	125	.	.
YELLOW BULLHEAD	.	172	80	.	.
YELLOW BULLHEAD	.	154	46	.	.
YELLOW BULLHEAD	.	148	45	.	.
YELLOW BULLHEAD	.	152	44	.	.
CHANNEL CATFISH	.	545	1750	.	.
CHANNEL CATFISH	.	487	1000	.	.
ROCK BASS	.	109	26	.	.
GREEN SUNFISH	.	112	33	.	.
PUMPKINSEED	.	103	23	.	.
PUMPKINSEED	.	76	9	.	.
BLUEGILL	.	117	35	.	.
BLUEGILL	.	97	18	.	.
BLUEGILL	.	112	27	.	.
BLUEGILL	.	105	23	.	.
BLUEGILL	.	122	35	.	.
BLUEGILL	.	112	25	.	.
BLUEGILL	.	89	13	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	.	62	5	.	.
NORTHERN SUNFISH	.	66	6	.	.
SMALLMOUTH BASS	.	193	92	.	.
SMALLMOUTH BASS	.	232	190	.	.
SMALLMOUTH BASS	.	217	145	.	.
SMALLMOUTH BASS	YOY	33	1	.	.
ROUND GOBY	.	77	7	.	.
ROUND GOBY	.	96	14	.	.
ROUND GOBY	.	86	11	.	.
ROUND GOBY	.	74	7	.	.
ROUND GOBY	.	70	6	.	.
ROUND GOBY	.	82	8	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15JUL13:15:37 END DATE AND TIME: 15JUL13:16:11

BLUNTNNOSE MINNOW	.	.	.	1	4
WHITE SUCKER	YOY	64	3	.	.
ORIENTAL WEATHERFISH	.	106	9	.	.
GREEN SUNFISH	.	85	16	.	.
GREEN SUNFISH	.	49	2	.	.
GREEN SUNFISH	.	66	6	.	.
PUMPKINSEED	.	94	22	.	.
ORANGESPOTTED SUNFISH	YOY	46	2	.	.
BLUEGILL	.	104	30	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	.	101	23	.	.
LARGEMOUTH BASS	.	81	6	.	.
LARGEMOUTH BASS	YOY	52	2	.	.
ROUND GOBY	.	60	3	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	.	.	.	1	2

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15JUL13:16:29 END DATE AND TIME: 15JUL13:17:05

COMMON CARP	.	260	220	.	.
COMMON CARP	.	212	125	.	.
COMMON CARP	.	698	4900	.	.
CARP X GOLDFISH HYBRID	.	178	95	.	.
GOLDEN SHINER	.	.	.	1	16
BLUNTNOSSE MINNOW	.	.	.	1	2
YELLOW BULLHEAD	.	232	210	.	.
GREEN SUNFISH	.	130	64	.	.
GREEN SUNFISH	.	75	10	.	.
GREEN SUNFISH	.	62	5	.	.
GREEN SUNFISH	.	105	34	.	.
GREEN SUNFISH	.	62	6	.	.
PUMPKINSEED	.	80	12	.	.
PUMPKINSEED	.	113	39	.	.
BLUEGILL	.	133	47	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	83	13	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	YOY	52	3	.	.
BLUEGILL	.	59	4	.	.
SMALLMOUTH BASS	.	241	180	.	.
SMALLMOUTH BASS	YOY	52	2	.	.
LARGEMOUTH BASS	.	131	30	.	.
LARGEMOUTH BASS	.	85	8	.	.
LARGEMOUTH BASS	YOY	54	2	.	.
LARGEMOUTH BASS	YOY	57	3	.	.
ROUND GOBY	.	.	.	1	4

SITE: SHIP CANAL LOCATION: 307 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15JUL13:17:32 END DATE AND TIME: 15JUL13:18:02

GIZZARD SHAD	.	280	205	.	.
GIZZARD SHAD	.	132	28	.	.
GIZZARD SHAD	.	127	23	.	.
GIZZARD SHAD	.	283	220	.	.
GIZZARD SHAD	.	267	200	.	.
GIZZARD SHAD	.	129	23	.	.
GIZZARD SHAD	.	122	21	.	.
COMMON CARP	.	778	6100	.	.
EMERALD SHINER	.	.	.	1	3
BLUNTNOSSE MINNOW	.	.	.	4	10
YELLOW BULLHEAD	.	169	67	.	.
CHANNEL CATFISH	.	540	1745	.	.
GREEN SUNFISH	.	70	8	.	.
GREEN SUNFISH	.	68	7	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	55	4	.	.
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	54	3	.	.
GREEN SUNFISH	.	66	6	.	.
PUMPKINSEED	.	96	26	.	.
BLUEGILL	.	98	21	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	83	10	.	.
BLUEGILL	YOY	50	3	.	.
BLUEGILL	.	91	16	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	79	11	.	.
BLUEGILL	.	75	8	.	.
Lepomis HYBRID	YOY	.	.	1	2
LARGEMOUTH BASS	YOY	61	3	.	.
LARGEMOUTH BASS	YOY	50	2	.	.
FRESHWATER DRUM	.	417	1090	.	.
ROUND GOBY	YOY	26	1	.	.
ROUND GOBY	YOY	35	1	.	.
ROUND GOBY	.	70	6	.	.
ROUND GOBY	.	70	6	.	.
ROUND GOBY	.	66	5	.	.
ROUND GOBY	YOY	28	1	.	.

SITE: SHIP CANAL LOCATION: 309 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15JUL13:18:30 END DATE AND TIME: 15JUL13:19:04

COMMON CARP	.	186	100	.	.
COMMON CARP	.	522	1885	.	.
LARGEMOUTH BASS	.	348	520	.	.
LARGEMOUTH BASS	.	382	800	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: DESPLAINES LOCATION: 402 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 15AUG13:12:20 END DATE AND TIME: 15AUG13:12:47					

LONGNOSE GAR	.	617	520	.	.
COMMON CARP	.	356	635	.	.
COMMON CARP	.	298	390	.	.
EMERALD SHINER	.	.	.	2	8
SHORTHEAD REDHORSE	.	328	390	.	.
YELLOW BULLHEAD	.	252	260	.	.
YELLOW BULLHEAD	.	212	150	.	.
CHANNEL CATFISH	.	518	1330	.	.
PUMPKINSEED	.	93	20	.	.
BLUEGILL	.	118	38	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	88	14	.	.
Lepomis HYBRID	.	.	.	1	88
SMALLMOUTH BASS	.	210	120	.	.
SMALLMOUTH BASS	.	292	300	.	.
SMALLMOUTH BASS	.	216	115	.	.
LARGEMOUTH BASS	.	241	180	.	.
LARGEMOUTH BASS	.	233	180	.	.
LARGEMOUTH BASS	.	244	165	.	.
LARGEMOUTH BASS	.	243	195	.	.
LARGEMOUTH BASS	YOY	101	12	.	.
FRESHWATER DRUM	.	556	2320	.	.
FRESHWATER DRUM	.	467	1460	.	.
ROUND GOBY	.	49	2	.	.

SITE: DESPLAINES LOCATION: 402A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 15AUG13:13:37 END DATE AND TIME: 15AUG13:14:10					

GIZZARD SHAD	.	290	240	.	.
GIZZARD SHAD	.	243	135	.	.
GIZZARD SHAD	.	207	88	.	.
GIZZARD SHAD	.	175	51	.	.
GIZZARD SHAD	.	201	65	.	.
GIZZARD SHAD	.	208	92	.	.
GIZZARD SHAD	.	288	225	.	.
GIZZARD SHAD	.	246	145	.	.
GIZZARD SHAD	.	284	240	.	.
GIZZARD SHAD	.	247	145	.	.
GIZZARD SHAD	.	240	150	.	.
GIZZARD SHAD	.	194	75	.	.
GIZZARD SHAD	.	207	86	.	.
GIZZARD SHAD	.	187	70	.	.
GIZZARD SHAD	.	320	310	.	.
GIZZARD SHAD	.	218	100	.	.
GIZZARD SHAD	.	207	85	.	.
GIZZARD SHAD	.	196	74	.	.
GIZZARD SHAD	.	207	101	.	.
GIZZARD SHAD	.	200	80	.	.
GIZZARD SHAD	.	210	96	.	.
COMMON CARP	.	480	1450	.	.
BLUNTNORSE MINNOW	.	.	.	2	2
SMALLMOUTH BUFFALO	.	400	1020	.	.
SMALLMOUTH BUFFALO	.	446	1240	.	.
GOLDEN REDHORSE	.	262	200	.	.
PUMPKINSEED	.	84	13	.	.
BLUEGILL	.	100	22	.	.
BLUEGILL	.	121	38	.	.
BLUEGILL	.	87	13	.	.
BLUEGILL	.	127	43	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	99	20	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	.	73	9	.	.
BLUEGILL	.	80	10	.	.
Lepomis HYBRID	.	.	.	1	215
LARGEMOUTH BASS	.	212	120	.	.
LARGEMOUTH BASS	.	258	275	.	.
FRESHWATER DRUM	.	447	1320	.	.

SITE: DESPLAINES LOCATION: 403 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 15AUG13:14:25 END DATE AND TIME: 15AUG13:14:55					

LONGNOSE GAR	.	660	585	.	.
GIZZARD SHAD	.	333	380	.	.
GIZZARD SHAD	.	246	135	.	.
GIZZARD SHAD	.	198	80	.	.
GIZZARD SHAD	.	218	102	.	.
COMMON CARP	.	448	1275	.	.
COMMON CARP	.	406	1010	.	.
SMALLMOUTH BUFFALO	.	334	440	.	.
CHANNEL CATFISH	.	585	2540	.	.
CHANNEL CATFISH	.	475	1260	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
CHANNEL CATFISH	.	612	2290	.	.
CHANNEL CATFISH	.	512	1300	.	.
CHANNEL CATFISH	.	460	1110	.	.
CHANNEL CATFISH	.	342	350	.	.
CHANNEL CATFISH	.	575	1660	.	.
GREEN SUNFISH	YOY	51	3	.	.
GREEN SUNFISH	.	120	43	.	.
GREEN SUNFISH	.	86	13	.	.
GREEN SUNFISH	.	68	6	.	.
PUMPKINSEED	YOY	66	6	.	.
BLUEGILL	.	143	61	.	.
BLUEGILL	.	125	41	.	.
BLUEGILL	.	110	31	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	.	82	11	.	.
BLUEGILL	.	100	23	.	.
BLUEGILL	.	100	21	.	.
BLUEGILL	.	76	9	.	.
BLUEGILL	.	101	24	.	.
Lepomis HYBRID	.	.	.	1	47
LARGEMOUTH BASS	.	337	550	.	.
LARGEMOUTH BASS	.	256	230	.	.
LARGEMOUTH BASS	.	122	28	.	.
FRESHWATER DRUM	.	445	880	.	.

SITE: DESPLAINES LOCATION: 403A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15AUG13:15:31 END DATE AND TIME: 15AUG13:16:06

LONGNOSE GAR	.	613	430	.	.
GIZZARD SHAD	.	217	125	.	.
GIZZARD SHAD	.	228	101	.	.
GIZZARD SHAD	.	274	155	.	.
GIZZARD SHAD	.	187	77	.	.
GIZZARD SHAD	.	220	100	.	.
GIZZARD SHAD	.	210	90	.	.
GIZZARD SHAD	.	187	65	.	.
GIZZARD SHAD	.	194	66	.	.
GIZZARD SHAD	.	267	180	.	.
GIZZARD SHAD	.	213	95	.	.
COMMON CARP	.	553	2410	.	.
BLUNTNOSE MINNOW	.	.	.	3	4
SMALLMOUTH BUFFALO	.	325	545	.	.
PUMPKINSEED	.	91	19	.	.
PUMPKINSEED	.	105	28	.	.
BLUEGILL	.	128	45	.	.
BLUEGILL	.	91	17	.	.
BLUEGILL	.	103	25	.	.
BLUEGILL	.	100	21	.	.
BLUEGILL	.	97	21	.	.
BLUEGILL	.	110	30	.	.
BLUEGILL	.	91	16	.	.
BLUEGILL	.	93	17	.	.
BLUEGILL	.	91	15	.	.
BLUEGILL	.	87	14	.	.
BLUEGILL	.	90	14	.	.
LARGEMOUTH BASS	.	437	1130	.	.
LARGEMOUTH BASS	.	285	350	.	.
LARGEMOUTH BASS	.	162	69	.	.
LARGEMOUTH BASS	YOY	81	8	.	.
FRESHWATER DRUM	.	467	1390	.	.

SITE: DESPLAINES LOCATION: 404A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 15AUG13:16:35 END DATE AND TIME: 15AUG13:17:07

GIZZARD SHAD	.	207	97	.	.
GIZZARD SHAD	.	205	95	.	.
GIZZARD SHAD	.	198	87	.	.
GIZZARD SHAD	.	209	94	.	.
COMMON CARP	.	409	890	.	.
CHANNEL CATFISH	.	472	1170	.	.
CHANNEL CATFISH	.	435	810	.	.
CHANNEL CATFISH	.	403	650	.	.
CHANNEL CATFISH	.	530	1590	.	.
CHANNEL CATFISH	.	448	735	.	.
GREEN SUNFISH	.	83	13	.	.
GREEN SUNFISH	.	94	19	.	.
BLUEGILL	.	142	70	.	.
BLUEGILL	.	148	76	.	.
BLUEGILL	.	118	40	.	.
BLUEGILL	.	120	37	.	.
BLUEGILL	.	93	17	.	.
BLUEGILL	.	86	13	.	.
BLUEGILL	.	86	13	.	.
Lepomis HYBRID	.	.	.	1	120
LARGEMOUTH BASS	.	380	850	.	.
LARGEMOUTH BASS	.	278	300	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	.	230	145	.	.
LARGEMOUTH BASS	.	257	220	.	.
LARGEMOUTH BASS	.	158	50	.	.
LARGEMOUTH BASS	.	199	112	.	.

SITE: DESPLAINES LOCATION: 405 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 15AUG13:17:33 END DATE AND TIME: 15AUG13:18:06

GIZZARD SHAD	.	246	100	.	.
GIZZARD SHAD	.	299	230	.	.
GIZZARD SHAD	.	200	80	.	.
GIZZARD SHAD	.	254	110	.	.
GIZZARD SHAD	.	260	200	.	.
GIZZARD SHAD	.	295	210	.	.
GIZZARD SHAD	.	262	200	.	.
GIZZARD SHAD	.	192	65	.	.
GIZZARD SHAD	.	186	70	.	.
GIZZARD SHAD	.	331	340	.	.
GIZZARD SHAD	.	306	320	.	.
GIZZARD SHAD	.	279	190	.	.
GIZZARD SHAD	.	294	300	.	.
GIZZARD SHAD	.	187	78	.	.
GIZZARD SHAD	.	205	96	.	.
GIZZARD SHAD	.	196	76	.	.
GIZZARD SHAD	.	201	84	.	.
GIZZARD SHAD	.	197	84	.	.
GIZZARD SHAD	.	268	160	.	.
GIZZARD SHAD	.	245	140	.	.
GIZZARD SHAD	.	274	180	.	.
GIZZARD SHAD	.	243	130	.	.
GIZZARD SHAD	.	204	90	.	.
GIZZARD SHAD	.	216	92	.	.
GIZZARD SHAD	.	196	70	.	.
GIZZARD SHAD	.	189	74	.	.
GIZZARD SHAD	.	256	130	.	.
GIZZARD SHAD	.	.	.	1	84
GIZZARD SHAD	YOY	85	8	.	.

SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 16AUG13:07:50 END DATE AND TIME: 16AUG13:08:24

GIZZARD SHAD	.	203	81	.	.
GIZZARD SHAD	.	248	120	.	.
GIZZARD SHAD	.	177	44	.	.
GIZZARD SHAD	.	198	62	.	.
THREADFIN SHAD	YOY	43	1	.	.
THREADFIN SHAD	YOY	58	2	.	.
COMMON CARP	.	429	820	.	.
COMMON CARP	.	472	1640	.	.
EMERALD SHINER	.	.	.	3	11
BLUNTNOSE MINNOW	.	.	.	5	5
PUMPKINSEED	.	95	20	.	.
BLUEGILL	.	130	45	.	.
BLUEGILL	.	102	22	.	.
BLUEGILL	.	101	23	.	.
LARGEMOUTH BASS	.	277	300	.	.
LARGEMOUTH BASS	.	209	100	.	.
LARGEMOUTH BASS	.	380	920	.	.
LARGEMOUTH BASS	.	332	610	.	.
LARGEMOUTH BASS	.	236	150	.	.
LARGEMOUTH BASS	.	267	215	.	.

SITE: DESPLAINES LOCATION: 412A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 16AUG13:08:51 END DATE AND TIME: 16AUG13:09:24

GIZZARD SHAD	.	204	75	.	.
GIZZARD SHAD	.	189	64	.	.
GIZZARD SHAD	.	307	250	.	.
GIZZARD SHAD	.	191	62	.	.
GIZZARD SHAD	.	179	55	.	.
GIZZARD SHAD	.	211	95	.	.
GIZZARD SHAD	.	125	21	.	.
GIZZARD SHAD	.	103	12	.	.
COMMON CARP	.	383	750	.	.
EMERALD SHINER	.	.	.	1	4
SPOTTAIL SHINER	.	.	.	1	2
BLUNTNOSE MINNOW	.	.	.	3	5
PUMPKINSEED	.	103	28	.	.
BLUEGILL	.	114	34	.	.
BLUEGILL	.	82	12	.	.
BLUEGILL	.	112	31	.	.
LARGEMOUTH BASS	.	283	260	.	.
LARGEMOUTH BASS	.	211	120	.	.
LARGEMOUTH BASS	YOY	77	7	.	.
LARGEMOUTH BASS	YOY	84	8	.	.
LARGEMOUTH BASS	YOY	74	6	.	.
LARGEMOUTH BASS	YOY	75	6	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	YOY	77	7	.	.
LARGEMOUTH BASS	YOY	86	9	.	.
LARGEMOUTH BASS	YOY	87	10	.	.
LARGEMOUTH BASS	YOY	81	5	.	.
SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 16AUG13:09:50 END DATE AND TIME: 16AUG13:10:23					
GIZZARD SHAD	.	223	100	.	.
GIZZARD SHAD	.	182	50	.	.
GIZZARD SHAD	.	259	150	.	.
GIZZARD SHAD	.	213	90	.	.
GIZZARD SHAD	.	196	62	.	.
GIZZARD SHAD	.	220	100	.	.
GIZZARD SHAD	.	194	62	.	.
GIZZARD SHAD	.	109	12	.	.
GIZZARD SHAD	.	111	11	.	.
GIZZARD SHAD	.	110	12	.	.
GIZZARD SHAD	YOY	93	9	.	.
WESTERN MOSQUITOFISH	.	.	.	1	1
GREEN SUNFISH	.	101	27	.	.
GREEN SUNFISH	.	102	26	.	.
ORANGESPOTTED SUNFISH	.	63	5	.	.
BLUEGILL	.	158	82	.	.
BLUEGILL	.	126	40	.	.
BLUEGILL	.	115	30	.	.
BLUEGILL	.	151	62	.	.
BLUEGILL	.	142	58	.	.
BLUEGILL	.	144	60	.	.
BLUEGILL	.	115	32	.	.
BLUEGILL	.	126	36	.	.
BLUEGILL	.	129	46	.	.
BLUEGILL	.	113	28	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	125	38	.	.
BLUEGILL	.	124	40	.	.
BLUEGILL	.	130	40	.	.
BLUEGILL	.	136	52	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	26	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	.	65	6	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	.	111	32	.	.
BLUEGILL	.	107	24	.	.
BLUEGILL	.	.	.	7	181
BLUEGILL	YOY	21	1	.	.
LARGEMOUTH BASS	.	298	300	.	.
LARGEMOUTH BASS	.	194	96	.	.
LARGEMOUTH BASS	YOY	88	10	.	.
FRESHWATER DRUM	.	.	.	1	800

SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 16AUG13:12:24 END DATE AND TIME: 16AUG13:13:13

GIZZARD SHAD	.	201	65	.	.
GIZZARD SHAD	.	261	160	.	.
GIZZARD SHAD	.	205	65	.	.
GIZZARD SHAD	.	227	110	.	.
GIZZARD SHAD	.	223	95	.	.
GIZZARD SHAD	YOY	80	5	.	.
GIZZARD SHAD	YOY	98	10	.	.
THREADFIN SHAD	YOY	46	1	.	.
THREADFIN SHAD	YOY	45	1	.	.
THREADFIN SHAD	YOY	50	1	.	.
THREADFIN SHAD	YOY	43	1	.	.
THREADFIN SHAD	YOY	77	5	.	.
THREADFIN SHAD	YOY	47	1	.	.
THREADFIN SHAD	YOY	51	1	.	.
THREADFIN SHAD	YOY	47	1	.	.
THREADFIN SHAD	YOY	47	1	.	.
THREADFIN SHAD	YOY	71	4	.	.
THREADFIN SHAD	YOY	44	1	.	.
THREADFIN SHAD	YOY	47	1	.	.
THREADFIN SHAD	YOY	58	2	.	.
THREADFIN SHAD	YOY	47	1	.	.
THREADFIN SHAD	YOY	47	1	.	.
THREADFIN SHAD	YOY	52	1	.	.
THREADFIN SHAD	YOY	46	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
THREADFIN SHAD	YOY	50	1	.	.
THREADFIN SHAD	YOY	49	1	.	.
THREADFIN SHAD	YOY	48	1	.	.
THREADFIN SHAD	YOY	47	1	.	.
THREADFIN SHAD	YOY	45	1	.	.
THREADFIN SHAD	YOY	46	1	.	.
THREADFIN SHAD	YOY	46	1	.	.
BLUNTNOSE MINNOW	.	.	.	4	7
GREEN SUNFISH	.	112	32	.	.
GREEN SUNFISH	.	77	10	.	.
GREEN SUNFISH	.	78	10	.	.
GREEN SUNFISH	.	94	21	.	.
GREEN SUNFISH	.	62	6	.	.
GREEN SUNFISH	.	63	6	.	.
GREEN SUNFISH	.	86	13	.	.
GREEN SUNFISH	.	98	23	.	.
GREEN SUNFISH	.	75	11	.	.
GREEN SUNFISH	.	78	11	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	82	12	.	.
GREEN SUNFISH	YOY	55	4	.	.
GREEN SUNFISH	.	88	16	.	.
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	69	7	.	.
GREEN SUNFISH	.	72	9	.	.
GREEN SUNFISH	.	75	10	.	.
GREEN SUNFISH	YOY	58	4	.	.
BLUEGILL	.	136	51	.	.
BLUEGILL	.	112	25	.	.
BLUEGILL	.	137	52	.	.
BLUEGILL	.	119	33	.	.
BLUEGILL	.	122	37	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	84	13	.	.
BLUEGILL	.	70	6	.	.
BLUEGILL	.	67	6	.	.
Lepomis HYBRID	.	.	.	1	49
Lepomis HYBRID	.	.	.	1	16
Lepomis HYBRID	YOY	20	1	.	.
LARGEMOUTH BASS	.	270	240	.	.
LARGEMOUTH BASS	.	402	910	.	.
LARGEMOUTH BASS	.	270	205	.	.
LOGPERCH	.	.	.	3	9
ROUND GOBY	YOY	22	1	.	.
SITE: DESPLAINES LOCATION: 419A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 16AUG13:13:52 END DATE AND TIME: 16AUG13:14:34					
GIZZARD SHAD	.	280	190	.	.
GIZZARD SHAD	.	284	180	.	.
GIZZARD SHAD	.	265	140	.	.
FLATHEAD CATFISH	.	700	4200	.	.
GREEN SUNFISH	YOY	58	5	.	.
GREEN SUNFISH	.	67	7	.	.
BLUEGILL	.	146	55	.	.
BLUEGILL	.	115	28	.	.
BLUEGILL	.	135	50	.	.
BLUEGILL	.	130	40	.	.
BLUEGILL	.	152	52	.	.
BLUEGILL	.	89	14	.	.
BLUEGILL	YOY	45	2	.	.
SITE: DESPLAINES LOCATION: 402 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 15AUG13:12:00 END DATE AND TIME: 15AUG13:12:07					
STRIPED SHINER	.	.	.	1	2
ROSYFACE SHINER	.	.	.	8	9
SPOTFIN SHINER	.	.	.	3	4
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	18	19
ROUND GOBY	.	47	1	.	.
SITE: DESPLAINES LOCATION: 403A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 15AUG13:11:42 END DATE AND TIME: 15AUG13:11:47					
SPOTFIN SHINER	YOY	.	.	7	1
SITE: DESPLAINES LOCATION: 404A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 15AUG13:11:23 END DATE AND TIME: 15AUG13:11:30					
SPOTFIN SHINER	.	.	.	1	1
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	84	70
BLUNTNOSE MINNOW	YOY	.	.	2	1
WESTERN MOSQUITOFISH	.	.	.	1	1
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	26	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	YOY	28	1	.	.
Lepomis sp.	YOY	20	1	.	.
SITE: DESPLAINES LOCATION: 405 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 15AUG13:11:09 END DATE AND TIME: 15AUG13:11:15					
BLUNTNOSE MINNOW	.	.	.	1	1
BLUNTNOSE MINNOW	YOY	.	.	97	44
BLUNTNOSE MINNOW	YOY	.	.	11	2
BLACKSTRIPE TOPMINNOW	YOY	.	.	1	1
BLUEGILL	.	128	53	.	.
BLUEGILL	YOY	24	1	.	.
Lepomis sp.	YOY	17	.	.	.
Lepomis sp.	YOY	12	.	.	1
SITE: DESPLAINES LOCATION: 408 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 15AUG13:10:57 END DATE AND TIME: 15AUG13:11:03					
BLACKSTRIPE TOPMINNOW	YOY	.	.	5	1
PUMPKINSEED	YOY	54	4	.	.
ORANGESPOTTED SUNFISH	.	70	7	.	.
ORANGESPOTTED SUNFISH	.	74	9	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	29	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	29	.	.	.
BLUEGILL	YOY	29	.	.	.
BLUEGILL	YOY	25	.	.	.
BLUEGILL	YOY	25	.	.	.
BLUEGILL	YOY	25	.	.	.
BLUEGILL	YOY	23	.	.	.
BLUEGILL	YOY	31	.	.	.
BLUEGILL	YOY	30	.	.	.
BLUEGILL	YOY	28	.	.	.
BLUEGILL	YOY	26	.	.	4
Lepomis sp.	YOY	17	1	.	.
Lepomis sp.	YOY	12	1	.	.
SITE: DESPLAINES LOCATION: 412A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 16AUG13:11:16 END DATE AND TIME: 16AUG13:11:21					
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	39	1	.	.
Lepomis sp.	YOY	20	1	.	.
Lepomis sp.	YOY	18	1	.	.
Lepomis sp.	YOY	20	1	.	.
LARGEMOUTH BASS	YOY	66	4	.	.
SITE: DESPLAINES LOCATION: 414 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 16AUG13:11:00 END DATE AND TIME: 16AUG13:11:07					
THREADFIN SHAD	YOY	21	1	.	.
BLUEGILL	.	120	40	.	.
BLUEGILL	.	114	34	.	.
BLUEGILL	.	117	35	.	.
BLUEGILL	.	101	21	.	.
BLUEGILL	.	151	76	.	.
BLUEGILL	.	117	34	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	.	61	4	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	37	2	.	.
BLUEGILL	YOY	32	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	29	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	45	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	.	.	31	23
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	13	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	18	.	.	.
Lepomis sp.	YOY	17	.	.	1
Lepomis sp.	YOY	12	.	.	.
Lepomis sp.	YOY	12	.	.	.
Lepomis sp.	YOY	13	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	13	.	.	1
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	14	.	.	1
LARGEMOUTH BASS	YOY	86	9	.	.
LARGEMOUTH BASS	YOY	99	15	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: SEINE MESOHABITAT:
 START DATE AND TIME: 16AUG13:11:45 END DATE AND TIME: 16AUG13:12:04

BLUEGILL	.	65	5	.	.
BLUEGILL	.	71	7	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	27	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	24	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	27	1	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	18	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	16	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	13	.	.	1
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	16	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	13	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	12	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	16	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	14	.	.	.
Lepomis sp.	YOY	11	.	.	.
Lepomis sp.	YOY	15	.	.	.
Lepomis sp.	YOY	13	.	.	2

SITE: DESPLAINES LOCATION: 419A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 16AUG13:14:54 END DATE AND TIME: 16AUG13:15:01

CENTRAL STONEROLLER	.	.	.	1	2
BLUNTNOST MINNOW	.	.	.	12	9
BLACKSTRIPE TOPMINNOW	.	.	.	8	5
WESTERN MOSQUITOFISH	YOY	35	1	.	.
WESTERN MOSQUITOFISH	YOY	36	1	.	.
WESTERN MOSQUITOFISH	YOY	42	1	.	.
WESTERN MOSQUITOFISH	YOY	23	1	.	.
WESTERN MOSQUITOFISH	YOY	22	1	.	.
WESTERN MOSQUITOFISH	YOY	24	1	.	.
BLUEGILL	YOY	48	3	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	YOY	23	1	.	.
BLUEGILL	YOY	26	1	.	.
Lepomis sp.	YOY	22	1	.	.
Lepomis sp.	YOY	17	1	.	.
SITE: SHIP CANAL LOCATION: 302A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 14AUG13:09:36 END DATE AND TIME: 14AUG13:09:43					
NO FISH . . . 0 .					
SITE: SHIP CANAL LOCATION: 304 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 14AUG13:12:08 END DATE AND TIME: 14AUG13:12:15					
ROUND GOBY	YOY	48	2	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	32	1	.	.
ROUND GOBY	YOY	35	1	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	48	2	.	.
ROUND GOBY	YOY	43	1	.	.
ROUND GOBY	YOY	31	1	.	.
ROUND GOBY	YOY	32	1	.	.
ROUND GOBY	YOY	28	1	.	.
SITE: SHIP CANAL LOCATION: 305 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 14AUG13:11:57 END DATE AND TIME: 14AUG13:12:03					
BLUNTNOSSE MINNOW	.	.	.	2	2
BLACKSTRIPE TOPMINNOW	.	.	.	2	1
WESTERN MOSQUITOFISH	.	.	.	1	2
ROUND GOBY	YOY	48	2	.	.
ROUND GOBY	YOY	52	2	.	.
ROUND GOBY	YOY	40	1	.	.
ROUND GOBY	YOY	47	1	.	.
ROUND GOBY	YOY	47	2	.	.
SITE: SHIP CANAL LOCATION: 306 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 14AUG13:11:47 END DATE AND TIME: 14AUG13:11:51					
BLUNTNOSSE MINNOW	.	.	.	40	56
BLACKSTRIPE TOPMINNOW	.	.	.	3	3
WESTERN MOSQUITOFISH	.	.	.	5	6
PUMPKINSEED	.	105	30	.	.
PUMPKINSEED	.	81	11	.	.
BLUEGILL	YOY	77	9	.	.
ROUND GOBY	YOY	26	1	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	39	1	.	.
SITE: SHIP CANAL LOCATION: 307 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 14AUG13:11:34 END DATE AND TIME: 14AUG13:11:41					
BLUNTNOSSE MINNOW	.	.	.	4	3
ROUND GOBY	YOY	31	1	.	.
SITE: SHIP CANAL LOCATION: 301 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 14AUG13:06:50 END DATE AND TIME: 14AUG13:07:18					
GIZZARD SHAD	YOY	77	6	.	.
GIZZARD SHAD	YOY	73	5	.	.
GIZZARD SHAD	YOY	68	4	.	.
GIZZARD SHAD	YOY	72	5	.	.
GIZZARD SHAD	YOY	69	4	.	.
GIZZARD SHAD	YOY	69	4	.	.
GIZZARD SHAD	YOY	68	4	.	.
GIZZARD SHAD	YOY	70	4	.	.
GIZZARD SHAD	YOY	68	4	.	.
GIZZARD SHAD	YOY	71	4	.	.
GIZZARD SHAD	YOY	76	5	.	.
SITE: SHIP CANAL LOCATION: 302 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 14AUG13:07:32 END DATE AND TIME: 14AUG13:08:00					
GIZZARD SHAD	YOY	.	.	25	30
GIZZARD SHAD	.	173	47	.	.
GIZZARD SHAD	.	181	58	.	.
GIZZARD SHAD	.	120	16	.	.
GIZZARD SHAD	.	187	65	.	.
GIZZARD SHAD	.	157	36	.	.
GIZZARD SHAD	YOY	50	2	.	.
GIZZARD SHAD	YOY	37	1	.	.
GIZZARD SHAD	YOY	36	1	.	.
GIZZARD SHAD	YOY	60	2	.	.
GIZZARD SHAD	YOY	47	1	.	.
GIZZARD SHAD	YOY	46	1	.	.
GIZZARD SHAD	YOY	38	1	.	.
GIZZARD SHAD	YOY	33	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	YOY	36	1	.	.
GIZZARD SHAD	YOY	41	1	.	.
GIZZARD SHAD	YOY	40	1	.	.
GIZZARD SHAD	YOY	35	1	.	.
GIZZARD SHAD	YOY	34	1	.	.
GIZZARD SHAD	YOY	39	1	.	.
GIZZARD SHAD	YOY	36	1	.	.
GIZZARD SHAD	YOY	32	1	.	.
GIZZARD SHAD	YOY	39	1	.	.
GIZZARD SHAD	YOY	42	1	.	.
GIZZARD SHAD	YOY	40	1	.	.
GIZZARD SHAD	YOY	41	1	.	.
GIZZARD SHAD	YOY	37	1	.	.
GIZZARD SHAD	YOY	33	1	.	.
GIZZARD SHAD	YOY	31	1	.	.
GIZZARD SHAD	YOY	40	1	.	.
GIZZARD SHAD	YOY	43	1	.	.
GIZZARD SHAD	YOY	.	.	38	21
THREADFIN SHAD	.	138	20	.	.
THREADFIN SHAD	.	91	6	.	.
THREADFIN SHAD	YOY	67	3	.	.
THREADFIN SHAD	YOY	72	4	.	.
THREADFIN SHAD	YOY	71	4	.	.
EMERALD SHINER	.	.	.	3	12

SITE: SHIP CANAL LOCATION: 302A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 14AUG13:09:52 END DATE AND TIME: 14AUG13:10:20

GIZZARD SHAD	.	376	560	.	.
COMMON CARP	.	448	1440	.	.
COMMON CARP	YOY	58	4	.	.
ORIENTAL WEATHERFISH	.	100	6	.	.
GREEN SUNFISH	.	118	42	.	.
GREEN SUNFISH	.	98	22	.	.
GREEN SUNFISH	.	87	16	.	.
GREEN SUNFISH	.	106	32	.	.
GREEN SUNFISH	.	70	8	.	.
GREEN SUNFISH	YOY	35	1	.	.
PUMPKINSEED	.	86	15	.	.
LARGEMOUTH BASS	YOY	89	11	.	.
LARGEMOUTH BASS	YOY	73	6	.	.
LARGEMOUTH BASS	.	90	10	.	.
FRESHWATER DRUM	.	348	500	.	.

SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 14AUG13:08:46 END DATE AND TIME: 14AUG13:09:22

GIZZARD SHAD	.	275	235	.	.
GIZZARD SHAD	.	233	125	.	.
GIZZARD SHAD	.	192	65	.	.
GIZZARD SHAD	.	163	45	.	.
GIZZARD SHAD	.	220	115	.	.
GIZZARD SHAD	.	194	75	.	.
GIZZARD SHAD	.	199	75	.	.
GIZZARD SHAD	.	111	14	.	.
GIZZARD SHAD	.	127	22	.	.
GIZZARD SHAD	.	121	19	.	.
BLUNTNOST MINNOW	.	.	.	1	3
BLUNTNOST MINNOW	.	.	.	15	60
CHANNEL CATFISH	.	465	840	.	.
GREEN SUNFISH	.	130	60	.	.
GREEN SUNFISH	.	85	14	.	.
GREEN SUNFISH	.	76	9	.	.
GREEN SUNFISH	.	90	17	.	.
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	90	19	.	.
GREEN SUNFISH	.	78	11	.	.
GREEN SUNFISH	.	87	13	.	.
GREEN SUNFISH	.	89	19	.	.
GREEN SUNFISH	.	67	7	.	.
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	78	10	.	.
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	57	5	.	.
GREEN SUNFISH	.	75	8	.	.
GREEN SUNFISH	.	70	9	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	70	8	.	.
PUMPKINSEED	.	120	35	.	.
PUMPKINSEED	.	114	29	.	.
PUMPKINSEED	.	112	29	.	.
PUMPKINSEED	.	101	19	.	.
PUMPKINSEED	.	109	26	.	.
PUMPKINSEED	.	107	21	.	.
PUMPKINSEED	.	90	17	.	.
BLUEGILL	.	105	23	.	.
LARGEMOUTH BASS	.	92	9	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	YOY	81	7	.	.
LARGEMOUTH BASS	YOY	78	6	.	.
LARGEMOUTH BASS	YOY	84	8	.	.

SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 14AUG13:13:23 END DATE AND TIME: 14AUG13:13:51

GIZZARD SHAD	.	234	140	.	.
GIZZARD SHAD	.	210	98	.	.
GIZZARD SHAD	.	311	290	.	.
GIZZARD SHAD	.	220	130	.	.
GIZZARD SHAD	.	225	100	.	.
COMMON CARP	.	464	1300	.	.
BLUNTNOSSE MINNOW	.	.	.	6	28
ORIENTAL WEATHERFISH	.	92	6	.	.
YELLOW BULLHEAD	.	179	80	.	.
GREEN SUNFISH	.	125	43	.	.

SITE: SHIP CANAL LOCATION: 304 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 14AUG13:12:30 END DATE AND TIME: 14AUG13:12:55

COMMON CARP	.	590	3290	.	.
BLUNTNOSSE MINNOW	.	.	.	1	1
YELLOW BULLHEAD	.	290	400	.	.
GREEN SUNFISH	.	120	45	.	.
GREEN SUNFISH	.	112	39	.	.
GREEN SUNFISH	.	103	26	.	.
GREEN SUNFISH	.	102	26	.	.
GREEN SUNFISH	.	99	25	.	.
GREEN SUNFISH	.	64	6	.	.
BLUEGILL	.	91	15	.	.
BLUEGILL	.	107	22	.	.
SMALLMOUTH BASS	YOY	81	6	.	.
ROUND GOBY	.	62	4	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 14AUG13:14:21 END DATE AND TIME: 14AUG13:14:52

GIZZARD SHAD	.	252	170	.	.
GIZZARD SHAD	.	207	105	.	.
GIZZARD SHAD	.	159	38	.	.
GIZZARD SHAD	.	154	37	.	.
GIZZARD SHAD	.	302	280	.	.
GIZZARD SHAD	.	179	56	.	.
GIZZARD SHAD	.	121	18	.	.
GIZZARD SHAD	.	122	19	.	.
GIZZARD SHAD	.	111	14	.	.
GIZZARD SHAD	.	110	16	.	.
GIZZARD SHAD	.	127	22	.	.
GIZZARD SHAD	.	123	20	.	.
GIZZARD SHAD	.	116	18	.	.
GIZZARD SHAD	.	115	16	.	.
GIZZARD SHAD	.	121	19	.	.
ORIENTAL WEATHERFISH	.	132	15	.	.
GREEN SUNFISH	.	88	17	.	.
GREEN SUNFISH	.	91	19	.	.
GREEN SUNFISH	.	79	11	.	.
PUMPKINSEED	.	102	22	.	.
BLUEGILL	.	112	28	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	37	1	.	.
ROUND GOBY	.	69	5	.	.

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 14AUG13:15:10 END DATE AND TIME: 14AUG13:15:41

GIZZARD SHAD	.	270	220	.	.
GIZZARD SHAD	.	176	50	.	.
GIZZARD SHAD	.	240	160	.	.
GIZZARD SHAD	.	224	120	.	.
GIZZARD SHAD	.	156	45	.	.
GIZZARD SHAD	.	205	110	.	.
GIZZARD SHAD	.	176	60	.	.
GOLDEN SHINER	.	.	.	1	19
EMERALD SHINER	.	.	.	2	6
BLUNTNOSSE MINNOW	YOY	.	.	1	1
BLUNTNOSSE MINNOW	.	.	.	1	1
GREEN SUNFISH	.	135	60	.	.
GREEN SUNFISH	.	71	8	.	.
PUMPKINSEED	.	116	34	.	.
PUMPKINSEED	.	99	20	.	.
BLUEGILL	.	135	50	.	.
BLUEGILL	.	126	30	.	.
BLUEGILL	.	115	31	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	104	20	.	.
LARGEMOUTH BASS	.	235	230	.	.
LARGEMOUTH BASS	.	105	15	.	.
LARGEMOUTH BASS	.	95	11	.	.
LARGEMOUTH BASS	.	137	35	.	.
LARGEMOUTH BASS	.	109	16	.	.
ROUND GOBY	YOY	56	3	.	.

SITE: SHIP CANAL LOCATION: 307 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 14AUG13:16:18 END DATE AND TIME: 14AUG13:16:46

GIZZARD SHAD	.	252	205	.	.
GIZZARD SHAD	.	193	89	.	.
GIZZARD SHAD	.	198	81	.	.
GIZZARD SHAD	.	267	215	.	.
GIZZARD SHAD	.	218	90	.	.
GIZZARD SHAD	.	180	60	.	.
GIZZARD SHAD	.	176	64	.	.
GIZZARD SHAD	.	228	145	.	.
GIZZARD SHAD	.	196	75	.	.
GIZZARD SHAD	.	207	90	.	.
GIZZARD SHAD	.	175	56	.	.
GIZZARD SHAD	.	145	31	.	.
GIZZARD SHAD	YOY	86	8	.	.
GIZZARD SHAD	YOY	79	6	.	.
GIZZARD SHAD	YOY	93	8	.	.
GIZZARD SHAD	.	124	23	.	.
GIZZARD SHAD	.	131	26	.	.
GIZZARD SHAD	.	122	22	.	.
GIZZARD SHAD	.	113	16	.	.
GIZZARD SHAD	.	131	25	.	.
GIZZARD SHAD	.	124	22	.	.
GIZZARD SHAD	.	135	25	.	.
BLUNTNORSE MINNOW	.	.	.	5	5
CHANNEL CATFISH	.	492	910	.	.
CHANNEL CATFISH	.	427	760	.	.
GREEN SUNFISH	.	61	5	.	.
GREEN SUNFISH	.	95	19	.	.
GREEN SUNFISH	.	100	22	.	.
BLUEGILL	.	139	57	.	.
BLUEGILL	.	118	33	.	.
BLUEGILL	YOY	76	8	.	.
LARGEMOUTH BASS	.	264	320	.	.
LARGEMOUTH BASS	YOY	84	7	.	.
LARGEMOUTH BASS	.	98	15	.	.
LARGEMOUTH BASS	.	97	9	.	.
LARGEMOUTH BASS	.	100	13	.	.
LARGEMOUTH BASS	.	94	11	.	.
ROUND GOBY	YOY	32	1	.	.

SITE: SHIP CANAL LOCATION: 309 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 14AUG13:17:12 END DATE AND TIME: 14AUG13:17:38

GIZZARD SHAD	.	178	50	.	.
GIZZARD SHAD	.	111	12	.	.
GIZZARD SHAD	.	110	9	.	.
GOLDFISH	.	185	118	.	.
WHITE SUCKER	YOY	80	7	.	.
PUMPKINSEED	.	111	25	.	.
PUMPKINSEED	.	107	23	.	.
PUMPKINSEED	.	102	18	.	.
PUMPKINSEED	.	98	18	.	.
PUMPKINSEED	.	89	13	.	.
PUMPKINSEED	.	72	7	.	.
PUMPKINSEED	.	91	14	.	.
BLUEGILL	.	150	74	.	.
BLUEGILL	.	111	24	.	.
LARGEMOUTH BASS	YOY	87	8	.	.
LARGEMOUTH BASS	.	95	11	.	.

SITE: DESPLAINES LOCATION: 402 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 27AUG13:12:06 END DATE AND TIME: 27AUG13:12:34

LONGNOSE GAR	.	602	470	.	.
COMMON CARP	.	775	5200	.	.
COMMON CARP	.	670	5000	.	.
COMMON CARP	.	682	3600	.	.
ROSYFACE SHINER	.	.	.	1	1
CHANNEL CATFISH	.	545	1530	.	.
ROCK BASS	.	92	20	.	.
GREEN SUNFISH	.	85	15	.	.
GREEN SUNFISH	.	104	24	.	.
GREEN SUNFISH	.	71	9	.	.
GREEN SUNFISH	.	82	11	.	.
GREEN SUNFISH	.	69	8	.	.
GREEN SUNFISH	.	82	12	.	.
BLUEGILL	.	134	38	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	143	51	.	.
BLUEGILL	YOY	57	4	.	.
BLUEGILL	.	110	28	.	.
BLUEGILL	.	97	19	.	.
Lepomis HYBRID	.	136	65	.	.
Lepomis HYBRID	.	.	.	2	46
SMALLMOUTH BASS	.	259	175	.	.
SMALLMOUTH BASS	.	228	150	.	.
SMALLMOUTH BASS	.	260	225	.	.
LARGEMOUTH BASS	.	281	360	.	.
LARGEMOUTH BASS	.	242	210	.	.
LARGEMOUTH BASS	.	247	215	.	.
LARGEMOUTH BASS	.	261	220	.	.
LARGEMOUTH BASS	.	205	106	.	.
LARGEMOUTH BASS	.	215	102	.	.
FRESHWATER DRUM	.	490	1530	.	.
ROUND GOBY	.	72	7	.	.
ROUND GOBY	YOY	43	1	.	.
ROUND GOBY	YOY	48	2	.	.

SITE: DESPLAINES LOCATION: 402A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 27AUG13:13:24 END DATE AND TIME: 27AUG13:13:55

GIZZARD SHAD	.	222	120	.	.
GIZZARD SHAD	.	222	115	.	.
GIZZARD SHAD	.	224	145	.	.
GIZZARD SHAD	.	188	54	.	.
GIZZARD SHAD	.	202	90	.	.
GIZZARD SHAD	.	202	85	.	.
GIZZARD SHAD	.	235	110	.	.
GIZZARD SHAD	.	204	105	.	.
GIZZARD SHAD	.	179	80	.	.
GIZZARD SHAD	.	177	43	.	.
GIZZARD SHAD	.	194	72	.	.
GIZZARD SHAD	.	136	28	.	.
COMMON CARP	.	360	700	.	.
COMMON CARP	.	390	810	.	.
COMMON CARP	.	340	560	.	.
CARP X GOLDFISH HYBRID	.	310	510	.	.
EMERALD SHINER	.	.	.	1	1
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	43	49
SMALLMOUTH BUFFALO	.	538	3000	.	.
CHANNEL CATFISH	.	451	810	.	.
GREEN SUNFISH	.	138	61	.	.
GREEN SUNFISH	.	101	22	.	.
GREEN SUNFISH	.	124	44	.	.
PUMPKINSEED	.	96	21	.	.
PUMPKINSEED	.	103	27	.	.
PUMPKINSEED	.	84	14	.	.
BLUEGILL	.	162	65	.	.
BLUEGILL	.	122	39	.	.
BLUEGILL	.	140	48	.	.
BLUEGILL	.	94	18	.	.
BLUEGILL	.	90	15	.	.
BLUEGILL	.	100	22	.	.
BLUEGILL	.	100	21	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	.	100	22	.	.
BLUEGILL	.	106	26	.	.
BLUEGILL	.	68	7	.	.
BLUEGILL	.	70	7	.	.
Lepomis HYBRID	.	.	.	1	15
LARGEMOUTH BASS	.	334	620	.	.
LARGEMOUTH BASS	.	302	380	.	.
LARGEMOUTH BASS	.	304	340	.	.
LARGEMOUTH BASS	.	166	51	.	.
LARGEMOUTH BASS	.	122	22	.	.
LARGEMOUTH BASS	.	124	30	.	.
LARGEMOUTH BASS	YOY	87	9	.	.
FRESHWATER DRUM	.	442	1000	.	.
ROUND GOBY	YOY	31	1	.	.

SITE: DESPLAINES LOCATION: 403 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 27AUG13:14:50 END DATE AND TIME: 27AUG13:15:14

GIZZARD SHAD	.	202	90	.	.
GIZZARD SHAD	.	225	106	.	.
SPOTFIN SHINER	.	.	.	1	3
SMALLMOUTH BUFFALO	.	520	2780	.	.
GREEN SUNFISH	.	110	21	.	.
GREEN SUNFISH	.	133	44	.	.
GREEN SUNFISH	.	134	54	.	.
GREEN SUNFISH	.	122	42	.	.
GREEN SUNFISH	.	71	5	.	.
GREEN SUNFISH	.	90	17	.	.
GREEN SUNFISH	.	112	35	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	99	24	.	.
GREEN SUNFISH	.	79	12	.	.
GREEN SUNFISH	.	96	19	.	.
GREEN SUNFISH	.	75	8	.	.
GREEN SUNFISH	YOY	65	5	.	.
GREEN SUNFISH	.	87	17	.	.
GREEN SUNFISH	.	83	13	.	.
GREEN SUNFISH	YOY	63	6	.	.
GREEN SUNFISH	.	109	32	.	.
GREEN SUNFISH	.	111	29	.	.
GREEN SUNFISH	.	80	12	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	YOY	63	6	.	.
PUMPKINSEED	YOY	70	8	.	.
PUMPKINSEED	YOY	71	8	.	.
BLUEGILL	.	158	78	.	.
BLUEGILL	.	128	42	.	.
BLUEGILL	.	126	32	.	.
BLUEGILL	.	106	22	.	.
BLUEGILL	.	99	14	.	.
BLUEGILL	.	81	12	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	.	90	15	.	.
BLUEGILL	.	87	14	.	.
BLUEGILL	.	63	5	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	82	12	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	72	8	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	69	7	.	.
Lepomis HYBRID	.	92	19	.	.
Lepomis HYBRID	.	92	19	.	.
Lepomis HYBRID	.	82	9	.	.
Lepomis HYBRID	.	.	.	11	231
Lepomis HYBRID	.	.	.	1	15

SITE: DESPLAINES LOCATION: 403A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 27AUG13:15:57 END DATE AND TIME: 27AUG13:16:25

GIZZARD SHAD	.	222	125	.	.
COMMON CARP	.	345	610	.	.
COMMON CARP	.	332	510	.	.
BLUNTNOSSE MINNOW	.	.	.	1	1
BLACK BUFFALO	.	317	638	.	.
CHANNEL CATFISH	.	575	2300	.	.
CHANNEL CATFISH	.	513	1220	.	.
GREEN SUNFISH	.	71	8	.	.
BLUEGILL	.	138	49	.	.
BLUEGILL	.	95	19	.	.
BLUEGILL	.	106	24	.	.
BLUEGILL	.	91	16	.	.
Lepomis HYBRID	.	.	.	1	54
LARGEMOUTH BASS	YOY	96	10	.	.

SITE: DESPLAINES LOCATION: 404A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 27AUG13:17:17 END DATE AND TIME: 27AUG13:17:47

LONGNOSE GAR	.	325	79	.	.
GIZZARD SHAD	.	310	260	.	.
GIZZARD SHAD	.	242	180	.	.
GIZZARD SHAD	.	221	110	.	.
GIZZARD SHAD	.	215	90	.	.
GIZZARD SHAD	.	208	95	.	.
SPOTTAIL SHINER	.	.	.	2	7
SPOTFIN SHINER	.	.	.	3	8
BLUNTNOSSE MINNOW	.	.	.	83	93
CHANNEL CATFISH	.	532	1580	.	.
CHANNEL CATFISH	.	520	1490	.	.
CHANNEL CATFISH	.	442	980	.	.
BROOK SILVERSIDE	.	.	.	1	1
GREEN SUNFISH	.	122	46	.	.
GREEN SUNFISH	.	91	15	.	.
GREEN SUNFISH	.	109	36	.	.
GREEN SUNFISH	.	85	15	.	.
GREEN SUNFISH	.	98	27	.	.
GREEN SUNFISH	YOY	59	5	.	.
GREEN SUNFISH	.	105	25	.	.
BLUEGILL	.	148	58	.	.
BLUEGILL	.	142	51	.	.
BLUEGILL	.	106	21	.	.
BLUEGILL	.	128	39	.	.
BLUEGILL	.	122	41	.	.
BLUEGILL	.	97	21	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	102	24	.	.
BLUEGILL	.	102	25	.	.
BLUEGILL	.	100	23	.	.
BLUEGILL	.	102	23	.	.
BLUEGILL	.	97	19	.	.
BLUEGILL	.	103	26	.	.
BLUEGILL	.	100	20	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	52	3	.	.
Lepomis HYBRID	.	161	95	.	.
Lepomis HYBRID	.	163	125	.	.
Lepomis HYBRID	.	.	.	1	27
LARGEMOUTH BASS	.	264	290	.	.
LARGEMOUTH BASS	.	237	210	.	.
LARGEMOUTH BASS	YOY	85	9	.	.
LARGEMOUTH BASS	YOY	81	8	.	.
LARGEMOUTH BASS	YOY	74	6	.	.
LARGEMOUTH BASS	YOY	82	7	.	.
SITE: DESPLAINES LOCATION: 405 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 27AUG13:18:20 END DATE AND TIME: 27AUG13:18:50					
GIZZARD SHAD	.	284	220	.	.
GIZZARD SHAD	.	186	56	.	.
GIZZARD SHAD	.	273	250	.	.
GIZZARD SHAD	.	232	126	.	.
GIZZARD SHAD	.	221	105	.	.
GIZZARD SHAD	.	302	280	.	.
GIZZARD SHAD	.	302	225	.	.
GIZZARD SHAD	.	242	155	.	.
GIZZARD SHAD	.	215	125	.	.
GIZZARD SHAD	.	310	280	.	.
GIZZARD SHAD	.	242	145	.	.
GIZZARD SHAD	.	282	210	.	.
GIZZARD SHAD	.	174	52	.	.
GIZZARD SHAD	.	186	68	.	.
GIZZARD SHAD	.	257	145	.	.
GIZZARD SHAD	.	295	230	.	.
GIZZARD SHAD	.	182	62	.	.
GIZZARD SHAD	.	228	125	.	.
GIZZARD SHAD	.	172	44	.	.
GIZZARD SHAD	.	190	68	.	.
GIZZARD SHAD	.	312	315	.	.
GIZZARD SHAD	.	213	102	.	.
GIZZARD SHAD	.	265	140	.	.
GIZZARD SHAD	.	184	52	.	.
GIZZARD SHAD	.	202	78	.	.
GIZZARD SHAD	.	338	360	.	.
GIZZARD SHAD	.	277	260	.	.
GIZZARD SHAD	.	282	225	.	.
GIZZARD SHAD	.	306	260	.	.
GIZZARD SHAD	.	207	74	.	.
GIZZARD SHAD	.	.	.	5	850
GRASS PICKEREL	.	152	27	.	.
COMMON CARP	.	438	1000	.	.
COMMON CARP	.	300	420	.	.
COMMON CARP	.	530	2050	.	.
COMMON CARP	.	545	2180	.	.
COMMON CARP	.	452	1380	.	.
STRIPED SHINER	.	.	.	1	2
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOST MINNOW	.	.	.	92	104
YELLOW BULLHEAD	.	222	195	.	.
CHANNEL CATFISH	.	472	1080	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	1	1
GREEN SUNFISH	.	76	11	.	.
GREEN SUNFISH	.	74	10	.	.
GREEN SUNFISH	YOY	46	2	.	.
GREEN SUNFISH	YOY	63	6	.	.
GREEN SUNFISH	YOY	60	4	.	.
GREEN SUNFISH	.	72	10	.	.
BLUEGILL	.	134	42	.	.
BLUEGILL	.	98	21	.	.
BLUEGILL	.	99	24	.	.
BLUEGILL	.	112	36	.	.
BLUEGILL	.	115	37	.	.
BLUEGILL	YOY	31	1	.	.
NORTHERN SUNFISH	.	97	27	.	.
NORTHERN SUNFISH	.	72	10	.	.
Lepomis HYBRID	.	.	.	1	56
Lepomis HYBRID	.	.	.	1	6
Lepomis sp.	YOY	25	1	.	.
Lepomis sp.	YOY	26	1	.	.
LARGEMOUTH BASS	.	315	540	.	.
LARGEMOUTH BASS	.	260	270	.	.
LARGEMOUTH BASS	YOY	90	11	.	.
LARGEMOUTH BASS	YOY	80	7	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
FRESHWATER DRUM	.	443	1080	.	.

SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 28AUG13:10:10 END DATE AND TIME: 28AUG13:10:52

GIZZARD SHAD	.	298	260	.	.
GIZZARD SHAD	.	198	54	.	.
GIZZARD SHAD	.	198	68	.	.
GIZZARD SHAD	.	186	54	.	.
GIZZARD SHAD	.	204	82	.	.
GIZZARD SHAD	.	184	54	.	.
GIZZARD SHAD	.	159	40	.	.
GIZZARD SHAD	.	125	20	.	.
GIZZARD SHAD	.	120	18	.	.
GIZZARD SHAD	YOY	116	16	.	.
GOLDFISH	.	302	480	.	.
SPOTFIN SHINER	YOY	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	13	11
YELLOW BULLHEAD	.	251	297	.	.
CHANNEL CATFISH	.	442	930	.	.
GREEN SUNFISH	.	78	10	.	.
GREEN SUNFISH	.	106	22	.	.
GREEN SUNFISH	YOY	61	5	.	.
GREEN SUNFISH	.	96	22	.	.
GREEN SUNFISH	.	94	21	.	.
PUMPKINSEED	.	122	48	.	.
PUMPKINSEED	.	99	20	.	.
PUMPKINSEED	YOY	52	3	.	.
BLUEGILL	.	138	58	.	.
BLUEGILL	.	103	25	.	.
BLUEGILL	.	110	29	.	.
BLUEGILL	YOY	40	2	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	.	97	20	.	.
BLUEGILL	.	77	10	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	44	2	.	.
BLUEGILL	.	76	10	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	31	1	.	.
Lepomis HYBRID	.	.	.	1	23
Lepomis HYBRID	.	.	.	1	10
Lepomis sp.	YOY	20	1	.	.
LARGEMOUTH BASS	.	274	310	.	.
LARGEMOUTH BASS	.	325	410	.	.
LARGEMOUTH BASS	.	252	190	.	.
LARGEMOUTH BASS	.	291	330	.	.
LARGEMOUTH BASS	YOY	99	13	.	.
LARGEMOUTH BASS	YOY	88	10	.	.
LARGEMOUTH BASS	YOY	86	9	.	.
LARGEMOUTH BASS	YOY	92	12	.	.
YELLOW PERCH	.	120	19	.	.
LOGPERCH	.	.	.	1	6

SITE: DESPLAINES LOCATION: 412A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 28AUG13:12:59 END DATE AND TIME: 28AUG13:13:36

LONGNOSE GAR	.	713	820	.	.
GIZZARD SHAD	.	.	.	1	60
GIZZARD SHAD	.	206	65	.	.
GIZZARD SHAD	.	254	145	.	.
GIZZARD SHAD	.	213	80	.	.
GIZZARD SHAD	.	194	68	.	.
GIZZARD SHAD	.	194	72	.	.
GIZZARD SHAD	.	182	52	.	.
GIZZARD SHAD	.	181	52	.	.
GIZZARD SHAD	.	172	43	.	.
GIZZARD SHAD	.	196	82	.	.
GIZZARD SHAD	.	193	54	.	.
GIZZARD SHAD	.	139	28	.	.
GIZZARD SHAD	.	183	51	.	.
GIZZARD SHAD	YOY	105	12	.	.
GIZZARD SHAD	YOY	110	15	.	.
GIZZARD SHAD	YOY	104	11	.	.
GIZZARD SHAD	YOY	115	15	.	.
THREADFIN SHAD	YOY	60	3	.	.
THREADFIN SHAD	YOY	57	2	.	.
THREADFIN SHAD	YOY	55	2	.	.
BLUNTNOSE MINNOW	.	.	.	8	5
SMALLMOUTH BUFFALO	.	452	1280	.	.
PUMPKINSEED	.	122	36	.	.
PUMPKINSEED	.	103	26	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	138	54	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	.	98	22	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	.	95	17	.	.
BLUEGILL	.	62	5	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	.	108	27	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	.	90	17	.	.
BLUEGILL	YOY	56	3	.	.
BLUEGILL	YOY	51	3	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	.	84	12	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	57	4	.	.
BLUEGILL	.	78	11	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	82	11	.	.
NORTHERN SUNFISH	.	113	39	.	.
LARGEMOUTH BASS	.	324	360	.	.
LARGEMOUTH BASS	.	169	58	.	.
LARGEMOUTH BASS	.	182	92	.	.
LARGEMOUTH BASS	YOY	104	14	.	.
LARGEMOUTH BASS	YOY	85	8	.	.
LARGEMOUTH BASS	YOY	85	8	.	.
LARGEMOUTH BASS	YOY	86	8	.	.
LARGEMOUTH BASS	YOY	89	10	.	.
LARGEMOUTH BASS	YOY	85	9	.	.
LARGEMOUTH BASS	YOY	98	13	.	.
LARGEMOUTH BASS	YOY	89	8	.	.

SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 28AUG13:14:22 END DATE AND TIME: 28AUG13:15:03

GIZZARD SHAD	.	325	370	.	.
GIZZARD SHAD	.	279	190	.	.
GIZZARD SHAD	.	279	180	.	.
GIZZARD SHAD	.	268	165	.	.
GIZZARD SHAD	.	329	285	.	.
GIZZARD SHAD	.	318	290	.	.
GIZZARD SHAD	.	273	150	.	.
GIZZARD SHAD	.	193	74	.	.
GIZZARD SHAD	.	202	70	.	.
GIZZARD SHAD	.	192	68	.	.
GIZZARD SHAD	.	272	160	.	.
GIZZARD SHAD	YOY	102	10	.	.
GIZZARD SHAD	YOY	101	10	.	.
GIZZARD SHAD	YOY	96	9	.	.
THREADFIN SHAD	YOY	67	4	.	.
THREADFIN SHAD	YOY	59	2	.	.
COMMON CARP	.	448	1160	.	.
BLUNTNOSE MINNOW	.	.	.	1	1
CHANNEL CATFISH	.	490	1400	.	.
GREEN SUNFISH	YOY	35	1	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	91	18	.	.
GREEN SUNFISH	.	94	19	.	.
ORANGESPOTTED SUNFISH	.	66	6	.	.
BLUEGILL	.	157	80	.	.
BLUEGILL	.	152	75	.	.
BLUEGILL	.	130	46	.	.
BLUEGILL	.	128	37	.	.
BLUEGILL	.	124	39	.	.
BLUEGILL	.	130	42	.	.
BLUEGILL	.	124	38	.	.
BLUEGILL	.	142	63	.	.
BLUEGILL	.	137	50	.	.
BLUEGILL	.	143	52	.	.
BLUEGILL	.	124	37	.	.
BLUEGILL	.	143	43	.	.
BLUEGILL	.	143	44	.	.
BLUEGILL	.	122	33	.	.
BLUEGILL	.	122	36	.	.
BLUEGILL	.	136	42	.	.
BLUEGILL	.	110	25	.	.
BLUEGILL	.	131	46	.	.
BLUEGILL	.	122	41	.	.
BLUEGILL	.	138	51	.	.
BLUEGILL	.	122	39	.	.
BLUEGILL	.	122	41	.	.
BLUEGILL	.	138	49	.	.
BLUEGILL	.	143	65	.	.
BLUEGILL	.	127	39	.	.
BLUEGILL	.	124	39	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	137	43	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	.	.	11	15
BLUEGILL	.	.	.	13	232
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	18	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	20	.	.	1
LARGEMOUTH BASS	.	373	820	.	.
LARGEMOUTH BASS	YOY	96	10	.	.
LARGEMOUTH BASS	YOY	92	9	.	.
LARGEMOUTH BASS	YOY	92	10	.	.
LARGEMOUTH BASS	YOY	102	10	.	.
LARGEMOUTH BASS	YOY	88	8	.	.
LARGEMOUTH BASS	.	280	260	.	.
LARGEMOUTH BASS	YOY	102	18	.	.
LARGEMOUTH BASS	YOY	99	16	.	.
LARGEMOUTH BASS	YOY	81	8	.	.
LARGEMOUTH BASS	YOY	92	12	.	.
FRESHWATER DRUM	.	344	450	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 28AUG13:16:53 END DATE AND TIME: 28AUG13:17:37

GIZZARD SHAD	.	242	115	.	.
GIZZARD SHAD	.	292	220	.	.
GIZZARD SHAD	.	268	180	.	.
GIZZARD SHAD	.	313	225	.	.
GIZZARD SHAD	.	257	135	.	.
GIZZARD SHAD	.	274	190	.	.
GIZZARD SHAD	.	266	170	.	.
GIZZARD SHAD	.	221	92	.	.
GIZZARD SHAD	.	222	95	.	.
GIZZARD SHAD	.	262	130	.	.
GIZZARD SHAD	.	209	82	.	.
GIZZARD SHAD	.	202	74	.	.
GIZZARD SHAD	.	244	125	.	.
GIZZARD SHAD	.	202	78	.	.
THREADFIN SHAD	YOY	35	1	.	.
THREADFIN SHAD	YOY	35	1	.	.
THREADFIN SHAD	YOY	32	1	.	.
THREADFIN SHAD	YOY	51	2	.	.
THREADFIN SHAD	YOY	48	1	.	.
COMMON CARP	.	497	1500	.	.
BLUNTNose MINNOW	.	.	.	16	22
BULLHEAD MINNOW	.	.	.	3	6
GOLDEN REDHORSE	.	282	220	.	.
YELLOW BASS	YOY	81	8	.	.
YELLOW BASS	YOY	86	9	.	.
GREEN SUNFISH	YOY	52	4	.	.
GREEN SUNFISH	.	126	51	.	.
GREEN SUNFISH	.	133	55	.	.
BLUEGILL	.	144	74	.	.
BLUEGILL	.	122	39	.	.
BLUEGILL	.	109	27	.	.
BLUEGILL	.	103	23	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	97	18	.	.
BLUEGILL	.	108	30	.	.
BLUEGILL	.	109	31	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	YOY	42	1	.	.
BLUEGILL	YOY	45	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	.	79	9	.	.
BLUEGILL	.	60	3	.	.
BLUEGILL	.	65	5	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	.	67	6	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	39	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	.	77	9	.	.
BLUEGILL	YOY	.	.	1	1
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	24	.	.	1
LARGEMOUTH BASS	.	353	520	.	.
LARGEMOUTH BASS	.	375	680	.	.
LARGEMOUTH BASS	.	252	230	.	.
LARGEMOUTH BASS	.	196	70	.	.
LARGEMOUTH BASS	YOY	91	12	.	.
LOGPERCH	.	.	.	2	7

SITE: DESPLAINES LOCATION: 419A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 28AUG13:18:43 END DATE AND TIME: 28AUG13:19:15

GIZZARD SHAD	.	261	160	.	.
GIZZARD SHAD	.	272	160	.	.
GIZZARD SHAD	.	253	170	.	.
GIZZARD SHAD	.	220	95	.	.
GIZZARD SHAD	.	247	160	.	.
COMMON CARP	.	313	470	.	.
COMMON CARP	.	278	330	.	.
COMMON CARP	.	557	2380	.	.
RIVER CARPSUCKER	.	413	880	.	.
SMALLMOUTH BUFFALO	.	702	6400	.	.
SMALLMOUTH BUFFALO	.	528	3220	.	.
SMALLMOUTH BUFFALO	.	513	2030	.	.
SMALLMOUTH BUFFALO	.	453	1320	.	.
SMALLMOUTH BUFFALO	.	510	2040	.	.
CHANNEL CATFISH	.	410	820	.	.
CHANNEL CATFISH	.	330	370	.	.
CHANNEL CATFISH	.	405	720	.	.
CHANNEL CATFISH	.	480	1180	.	.
CHANNEL CATFISH	.	362	430	.	.
CHANNEL CATFISH	.	382	640	.	.
CHANNEL CATFISH	.	380	480	.	.
GREEN SUNFISH	.	78	12	.	.
GREEN SUNFISH	.	85	13	.	.
GREEN SUNFISH	.	72	9	.	.
GREEN SUNFISH	YOY	63	6	.	.
GREEN SUNFISH	.	69	7	.	.
GREEN SUNFISH	.	80	12	.	.
GREEN SUNFISH	.	87	17	.	.
GREEN SUNFISH	.	81	12	.	.
GREEN SUNFISH	YOY	62	6	.	.
GREEN SUNFISH	YOY	64	6	.	.
BLUEGILL	.	162	75	.	.
BLUEGILL	.	136	50	.	.
BLUEGILL	.	160	95	.	.
BLUEGILL	.	152	72	.	.
BLUEGILL	.	149	64	.	.
BLUEGILL	.	118	39	.	.
BLUEGILL	.	94	17	.	.
BLUEGILL	.	103	23	.	.
BLUEGILL	.	104	23	.	.
BLUEGILL	.	110	27	.	.
BLUEGILL	.	125	43	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	86	13	.	.
BLUEGILL	.	126	45	.	.
BLUEGILL	.	109	30	.	.
BLUEGILL	.	95	18	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	.	133	46	.	.
BLUEGILL	.	95	18	.	.
BLUEGILL	.	94	16	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	97	18	.	.
BLUEGILL	.	108	27	.	.
BLUEGILL	.	102	23	.	.
BLUEGILL	.	119	38	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	.	78	11	.	.
BLUEGILL	.	91	15	.	.
BLUEGILL	.	.	.	6	132
NORTHERN SUNFISH	.	87	17	.	.
SMALLMOUTH BASS	.	182	82	.	.
LARGEMOUTH BASS	.	410	1060	.	.
LARGEMOUTH BASS	.	253	240	.	.
LARGEMOUTH BASS	.	270	270	.	.
LARGEMOUTH BASS	.	208	122	.	.
LARGEMOUTH BASS	YOY	76	6	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	-----	-----	-----	-----	-----
LARGEMOUTH BASS	YOY	104	16	.	.
LARGEMOUTH BASS	YOY	91	11	.	.
LARGEMOUTH BASS	YOY	92	11	.	.
LARGEMOUTH BASS	YOY	91	10	.	.
LARGEMOUTH BASS	YOY	83	8	.	.
LOGPERCH	.	.	.	1	5
FRESHWATER DRUM	.	388	700	.	.
FRESHWATER DRUM	.	408	800	.	.
FRESHWATER DRUM	.	432	1080	.	.
SITE: DESPLAINES LOCATION: 402 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 27AUG13:11:43 END DATE AND TIME: 27AUG13:11:55					
BLUNTNOSSE MINNOW	.	45	1	.	.
SITE: DESPLAINES LOCATION: 403A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 27AUG13:11:23 END DATE AND TIME: 27AUG13:11:30					
SPOTFIN SHINER	YOY	.	.	6	2
BANDED KILLIFISH	YOY	.	.	3	1
BLACKSTRIPE TOPMINNOW	YOY	.	.	3	1
WESTERN MOSQUITOFISH	.	.	.	1	1
WESTERN MOSQUITOFISH	YOY	.	.	1	1
BLUEGILL	YOY	33	1	.	.
SITE: DESPLAINES LOCATION: 404A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 27AUG13:11:04 END DATE AND TIME: 27AUG13:11:10					
SAND SHINER	.	.	.	1	1
BLUNTNOSSE MINNOW	.	.	.	100	128
BLUNTNOSSE MINNOW	.	.	.	80	103
ROCK BASS	YOY	50	3	.	.
BLUEGILL	.	70	8	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	28	.	.	.
Lepomis sp.	YOY	27	.	.	1
SITE: DESPLAINES LOCATION: 405 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 27AUG13:10:45 END DATE AND TIME: 27AUG13:10:55					
BLUNTNOSSE MINNOW	.	.	.	43	40
BLUNTNOSSE MINNOW	YOY	.	.	21	2
WESTERN MOSQUITOFISH	YOY	.	.	1	1
Lepomis sp.	YOY	33	1	.	.
Lepomis sp.	YOY	29	1	.	.
Lepomis sp.	YOY	27	1	.	.
Lepomis sp.	YOY	27	1	.	.
Lepomis sp.	YOY	26	1	.	.
Lepomis sp.	YOY	23	1	.	.
Lepomis sp.	YOY	22	1	.	.
LARGEMOUTH BASS	YOY	77	6	.	.
LARGEMOUTH BASS	YOY	83	9	.	.
SITE: DESPLAINES LOCATION: 408 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 27AUG13:10:28 END DATE AND TIME: 27AUG13:10:34					
BLUNTNOSSE MINNOW	.	.	.	5	5
BLACKSTRIPE TOPMINNOW	.	.	.	12	10
BLACKSTRIPE TOPMINNOW	YOY	.	.	8	2
WESTERN MOSQUITOFISH	.	.	.	8	4
BLUEGILL	YOY	47	2	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	42	2	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	27	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	32	1	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	29	1	.	.
BLUEGILL	YOY	32	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	31	1	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	21	.	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	18	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	4
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	24	.	.	1
LARGEMOUTH BASS	YOY	82	8	.	.
BLACKSIDE DARTER	.	.	.	6	11
SITE: DESPLAINES LOCATION: 412A		GEAR: SEINE		MESOHABITAT: MAIN CHANNEL BORDER	
START DATE AND TIME: 28AUG13:09:37		END DATE AND TIME: 28AUG13:09:44			
BLUNTNOSE MINNOW	.	.	.	5	7
BLUEGILL	.	100	26	.	.
SITE: DESPLAINES LOCATION: 414		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 28AUG13:09:16		END DATE AND TIME: 28AUG13:09:29			
BLUNTNOSE MINNOW	.	.	.	105	95
BLUNTNOSE MINNOW	YOY	.	.	2	1
BANDED KILLIFISH	.	.	.	1	1
BLACKSTRIPE TOPMINNOW	.	.	.	2	1
PUMPKINSEED	YOY	58	4	.	.
PUMPKINSEED	YOY	64	6	.	.
PUMPKINSEED	YOY	45	2	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	.	125	43	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	.	110	26	.	.
BLUEGILL	.	134	55	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	48	3	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	YOY	50	3	.	.
BLUEGILL	.	59	4	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	49	3	.	.
BLUEGILL	.	91	16	.	.
BLUEGILL	.	70	7	.	.
BLUEGILL	YOY	49	3	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	42	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	.	110	29	.	.
BLUEGILL	YOY	54	3	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	YOY	.	.	10	19
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	16	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	20	.	.	1
LARGEMOUTH BASS	YOY	88	10	.	.
LARGEMOUTH BASS	YOY	87	9	.	.
LARGEMOUTH BASS	YOY	94	12	.	.
LARGEMOUTH BASS	YOY	79	7	.	.
SITE: DESPLAINES LOCATION: 418		GEAR: SEINE		MESOHABITAT:	
START DATE AND TIME: 28AUG13:16:24		END DATE AND TIME: 28AUG13:16:34			
THREADFIN SHAD	YOY	48	1	.	.
THREADFIN SHAD	YOY	55	2	.	.
THREADFIN SHAD	YOY	46	1	.	.
BLUNTNOSE MINNOW	.	.	.	5	5

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BULLHEAD MINNOW	YOY	.	.	4	2
BLACKSTRIPE TOPMINNOW	.	.	.	1	1
PUMPKINSEED	YOY	54	3	.	.
BLUEGILL	.	101	23	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	33	.	.	.
BLUEGILL	YOY	31	.	.	.
BLUEGILL	YOY	31	.	.	.
BLUEGILL	YOY	30	.	.	.
BLUEGILL	YOY	31	.	.	.
BLUEGILL	YOY	31	.	.	.
BLUEGILL	YOY	30	.	.	4
BLUEGILL	YOY	29	.	.	.
BLUEGILL	YOY	31	.	.	.
BLUEGILL	YOY	30	.	.	.
BLUEGILL	YOY	30	.	.	.
BLUEGILL	YOY	29	.	.	.
BLUEGILL	YOY	30	.	.	.
BLUEGILL	YOY	30	.	.	4
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	28	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	19	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	28	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	18	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	18	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	19	.	.	6
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	25	.	.	2
Lepomis sp.	YOY	.	.	4	1

SITE: DESPLAINES LOCATION: 419A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 28AUG13:08:57 END DATE AND TIME: 28AUG13:09:06

BLUEGILL	YOY	32	1	.	.
LARGEMOUTH BASS	YOY	87	11	.	.
LARGEMOUTH BASS	YOY	83	9	.	.

SITE: SHIP CANAL LOCATION: 302A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 26AUG13:11:00 END DATE AND TIME: 26AUG13:11:10

BULLHEAD MINNOW	YOY	.	.	1	1
PUMPKINSEED	.	110	32	.	.

SITE: SHIP CANAL LOCATION: 304 GEAR: SEINE MESOHABITAT: .
 START DATE AND TIME: 26AUG13:13:58 END DATE AND TIME: 26AUG13:14:07

TADPOLE MADTOM	.	58	3	.	.
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SITE: SHIP CANAL LOCATION: 305 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 26AUG13:13:40 END DATE AND TIME: 26AUG13:13:46

BLUNTNOSE MINNOW	.	.	.	14	42
YELLOW BULLHEAD	YOY	43	1	.	.
ROUND GOBY	YOY	42	1	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	37	1	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	43	1	.	.
ROUND GOBY	YOY	36	1	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	31	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: SHIP CANAL LOCATION: 306 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 26AUG13:13:25 END DATE AND TIME: 26AUG13:13:32					
BLUNTNOSE MINNOW	.	.	.	13	19
BLUNTNOSE MINNOW	YOY	.	.	2	1
BLACKSTRIPE TOPMINNOW	YOY	.	.	3	1
WESTERN MOSQUITOFISH	YOY	.	.	4	1
PUMPKINSEED	.	109	31	.	.
ROUND GOBY	YOY	42	1	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	58	3	.	.
SITE: SHIP CANAL LOCATION: 307 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 26AUG13:13:05 END DATE AND TIME: 26AUG13:13:15					
BLUNTNOSE MINNOW	.	.	.	36	25
BANDED KILLIFISH	YOY	32	1	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	2	1
GREEN SUNFISH	.	66	7	.	.
GREEN SUNFISH	.	52	4	.	.
GREEN SUNFISH	.	60	5	.	.
GREEN SUNFISH	.	75	11	.	.
PUMPKINSEED	.	96	27	.	.
ORANGESPOTTED SUNFISH	.	60	4	.	.
BLUEGILL	YOY	77	11	.	.
BLUEGILL	YOY	72	7	.	.
BLUEGILL	YOY	79	10	.	.
BLUEGILL	YOY	81	11	.	.
BLUEGILL	YOY	77	10	.	.
BLUEGILL	YOY	71	9	.	.
BLUEGILL	YOY	73	9	.	.
BLUEGILL	YOY	74	9	.	.
BLUEGILL	YOY	85	15	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	26	.	.	1
ROUND GOBY	YOY	52	2	.	.
SITE: SHIP CANAL LOCATION: 301 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 26AUG13:08:32 END DATE AND TIME: 26AUG13:08:59					
GIZZARD SHAD	.	160	31	.	.
GIZZARD SHAD	YOY	92	7	.	.
GIZZARD SHAD	.	160	35	.	.
GIZZARD SHAD	YOY	93	7	.	.
SITE: SHIP CANAL LOCATION: 302 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 26AUG13:09:16 END DATE AND TIME: 26AUG13:09:43					
GIZZARD SHAD	.	176	48	.	.
GIZZARD SHAD	.	174	51	.	.
GIZZARD SHAD	.	176	52	.	.
GIZZARD SHAD	.	126	23	.	.
GIZZARD SHAD	YOY	62	3	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	54	2	.	.
GIZZARD SHAD	YOY	58	2	.	.
GIZZARD SHAD	YOY	78	5	.	.
GIZZARD SHAD	YOY	55	2	.	.
GIZZARD SHAD	YOY	56	2	.	.
GIZZARD SHAD	YOY	63	3	.	.
GIZZARD SHAD	YOY	55	2	.	.
GIZZARD SHAD	YOY	58	2	.	.
GIZZARD SHAD	YOY	50	2	.	.
THREADFIN SHAD	YOY	84	7	.	.
THREADFIN SHAD	YOY	73	4	.	.
THREADFIN SHAD	YOY	86	7	.	.
THREADFIN SHAD	YOY	74	4	.	.
LARGEMOUTH BASS	.	102	13	.	.
LARGEMOUTH BASS	.	110	15	.	.
LARGEMOUTH BASS	.	113	17	.	.
LARGEMOUTH BASS	.	120	20	.	.
SITE: SHIP CANAL LOCATION: 302A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 26AUG13:11:16 END DATE AND TIME: 26AUG13:11:46					
GIZZARD SHAD	.	118	17	.	.
GIZZARD SHAD	.	112	15	.	.
GIZZARD SHAD	.	122	19	.	.
GREEN SUNFISH	.	82	14	.	.
GREEN SUNFISH	.	118	42	.	.
GREEN SUNFISH	.	88	15	.	.
GREEN SUNFISH	.	83	14	.	.
GREEN SUNFISH	.	98	20	.	.
GREEN SUNFISH	.	80	13	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	108	36	.	.
GREEN SUNFISH	YOY	37	1	.	.
PUMPKINSEED	.	121	39	.	.
PUMPKINSEED	.	98	19	.	.
PUMPKINSEED	.	124	40	.	.
PUMPKINSEED	.	103	27	.	.
PUMPKINSEED	.	94	20	.	.
BLUEGILL	.	113	29	.	.
BLUEGILL	.	106	27	.	.
BLUEGILL	.	99	22	.	.
LARGEMOUTH BASS	.	263	280	.	.
LARGEMOUTH BASS	YOY	91	9	.	.
LARGEMOUTH BASS	.	116	18	.	.
LARGEMOUTH BASS	.	103	12	.	.
LARGEMOUTH BASS	YOY	82	6	.	.

SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 26AUG13:10:10 END DATE AND TIME: 26AUG13:10:38

GIZZARD SHAD	.	214	90	.	.
GIZZARD SHAD	.	198	80	.	.
GIZZARD SHAD	.	208	70	.	.
GIZZARD SHAD	.	188	58	.	.
GIZZARD SHAD	.	242	145	.	.
GIZZARD SHAD	.	178	49	.	.
GIZZARD SHAD	.	188	55	.	.
GIZZARD SHAD	.	238	125	.	.
GIZZARD SHAD	.	208	70	.	.
GIZZARD SHAD	.	176	43	.	.
GIZZARD SHAD	.	191	60	.	.
GIZZARD SHAD	.	175	48	.	.
BLUNTNOSE MINNOW	.	.	.	10	24
YELLOW BULLHEAD	.	302	370	.	.
CHANNEL CATFISH	.	490	1120	.	.
GREEN SUNFISH	.	118	34	.	.
GREEN SUNFISH	.	103	20	.	.
GREEN SUNFISH	.	69	7	.	.
GREEN SUNFISH	.	81	14	.	.
GREEN SUNFISH	.	73	8	.	.
GREEN SUNFISH	.	78	11	.	.
GREEN SUNFISH	.	88	15	.	.
GREEN SUNFISH	.	86	15	.	.
GREEN SUNFISH	.	83	13	.	.
GREEN SUNFISH	.	91	21	.	.
GREEN SUNFISH	.	71	8	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	73	10	.	.
GREEN SUNFISH	.	78	10	.	.
GREEN SUNFISH	.	76	11	.	.
PUMPKINSEED	.	127	38	.	.
PUMPKINSEED	.	119	40	.	.
PUMPKINSEED	.	113	28	.	.
PUMPKINSEED	.	106	19	.	.
PUMPKINSEED	.	106	21	.	.
PUMPKINSEED	.	128	39	.	.
PUMPKINSEED	.	90	17	.	.
PUMPKINSEED	.	103	26	.	.
PUMPKINSEED	.	105	28	.	.
BLUEGILL	.	124	40	.	.
BLUEGILL	.	108	21	.	.
BLUEGILL	.	95	20	.	.
BLUEGILL	.	101	23	.	.
BLUEGILL	.	101	21	.	.
LARGEMOUTH BASS	.	151	45	.	.
LARGEMOUTH BASS	YOY	90	10	.	.

SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 26AUG13:15:49 END DATE AND TIME: 26AUG13:16:13

GIZZARD SHAD	.	295	240	.	.
COMMON CARP	.	352	680	.	.
EMERALD SHINER	.	.	.	1	6
YELLOW BULLHEAD	.	150	53	.	.
GREEN SUNFISH	.	63	5	.	.
GREEN SUNFISH	.	102	29	.	.
GREEN SUNFISH	.	114	33	.	.
GREEN SUNFISH	.	99	23	.	.
GREEN SUNFISH	.	85	15	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	100	23	.	.
GREEN SUNFISH	.	86	15	.	.
GREEN SUNFISH	.	99	22	.	.
GREEN SUNFISH	.	73	9	.	.
GREEN SUNFISH	.	76	11	.	.
PUMPKINSEED	.	108	29	.	.
LARGEMOUTH BASS	.	165	70	.	.
ROUND GOBY	YOY	44	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	.	65	4	.	.
ROUND GOBY	.	65	4	.	.
ROUND GOBY	YOY	55	2	.	.
ROUND GOBY	YOY	54	2	.	.
ROUND GOBY	YOY	56	3	.	.
ROUND GOBY	YOY	44	1	.	.

SITE: SHIP CANAL LOCATION: 304 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 26AUG13:14:34 END DATE AND TIME: 26AUG13:15:06

COMMON CARP	.	650	4050	.	.
BLUNTNOSE MINNOW	.	.	.	3	3
YELLOW BULLHEAD	.	144	41	.	.
YELLOW BULLHEAD	.	136	39	.	.
YELLOW BULLHEAD	.	155	51	.	.
CHANNEL CATFISH	.	493	1080	.	.
CHANNEL CATFISH	.	505	1450	.	.
CHANNEL CATFISH	.	520	1020	.	.
CHANNEL CATFISH	.	461	1200	.	.
TADPOLE MADTOM	.	.	.	1	3
TADPOLE MADTOM	YOY	.	.	1	1
ROCK BASS	.	131	41	.	.
GREEN SUNFISH	.	49	3	.	.
GREEN SUNFISH	.	46	2	.	.
GREEN SUNFISH	.	59	4	.	.
GREEN SUNFISH	.	99	25	.	.
GREEN SUNFISH	.	108	30	.	.
GREEN SUNFISH	.	100	26	.	.
GREEN SUNFISH	.	118	36	.	.
PUMPKINSEED	.	109	25	.	.
ORANGESPOTTED SUNFISH	.	63	5	.	.
BLUEGILL	.	112	29	.	.
BLUEGILL	.	105	24	.	.
BLUEGILL	YOY	82	12	.	.
BLUEGILL	.	92	17	.	.
BLUEGILL	.	108	25	.	.
SMALLMOUTH BASS	.	113	21	.	.
SMALLMOUTH BASS	.	110	19	.	.
SMALLMOUTH BASS	YOY	91	9	.	.
SMALLMOUTH BASS	.	110	12	.	.
SMALLMOUTH BASS	.	236	190	.	.
SMALLMOUTH BASS	YOY	94	12	.	.
JOHNNY DARTER	.	.	.	1	1
BLACKSIDE DARTER	.	.	.	1	1
ROUND GOBY	.	86	10	.	.
ROUND GOBY	.	99	17	.	.
ROUND GOBY	.	91	13	.	.
ROUND GOBY	.	81	9	.	.
ROUND GOBY	.	96	14	.	.
ROUND GOBY	.	93	13	.	.
ROUND GOBY	.	71	5	.	.
ROUND GOBY	.	73	6	.	.
ROUND GOBY	YOY	58	3	.	.
ROUND GOBY	.	68	5	.	.
ROUND GOBY	.	77	7	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	55	2	.	.
ROUND GOBY	YOY	53	2	.	.
ROUND GOBY	YOY	51	2	.	.
ROUND GOBY	YOY	52	2	.	.
ROUND GOBY	YOY	42	1	.	.
ROUND GOBY	YOY	27	1	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	34	1	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 26AUG13:16:36 END DATE AND TIME: 26AUG13:17:05

GIZZARD SHAD	.	230	150	.	.
GIZZARD SHAD	.	295	270	.	.
GIZZARD SHAD	.	224	131	.	.
GIZZARD SHAD	.	181	55	.	.
GIZZARD SHAD	.	211	89	.	.
GIZZARD SHAD	.	315	335	.	.
GIZZARD SHAD	.	221	114	.	.
GIZZARD SHAD	.	209	110	.	.
GIZZARD SHAD	.	196	82	.	.
GIZZARD SHAD	.	181	58	.	.
GIZZARD SHAD	.	228	135	.	.
GIZZARD SHAD	.	226	110	.	.
GIZZARD SHAD	.	198	78	.	.
GIZZARD SHAD	.	112	15	.	.
GIZZARD SHAD	.	127	23	.	.
GIZZARD SHAD	.	128	24	.	.
GIZZARD SHAD	.	110	14	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	177	59	.	.
GIZZARD SHAD	.	134	27	.	.
GIZZARD SHAD	.	121	18	.	.
GIZZARD SHAD	.	128	24	.	.
GIZZARD SHAD	.	112	15	.	.
GIZZARD SHAD	.	122	18	.	.
GIZZARD SHAD	.	118	19	.	.
GIZZARD SHAD	.	128	21	.	.
GIZZARD SHAD	.	133	24	.	.
GIZZARD SHAD	.	120	21	.	.
GIZZARD SHAD	YOY	104	12	.	.
GIZZARD SHAD	.	126	20	.	.
GIZZARD SHAD	.	115	18	.	.
GIZZARD SHAD	.	.	.	4	80
BLUNTNOSE MINNOW	.	.	.	10	27
ORIENTAL WEATHERFISH	YOY	78	2	.	.
YELLOW BULLHEAD	YOY	57	3	.	.
CHANNEL CATFISH	.	492	1150	.	.
TADPOLE MADTOM	YOY	27	1	.	.
BANDED KILLIFISH	.	50	1	.	.
GREEN SUNFISH	.	145	62	.	.
GREEN SUNFISH	.	115	34	.	.
GREEN SUNFISH	.	84	12	.	.
GREEN SUNFISH	.	99	21	.	.
GREEN SUNFISH	.	80	12	.	.
GREEN SUNFISH	.	70	8	.	.
GREEN SUNFISH	.	130	52	.	.
GREEN SUNFISH	.	122	46	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	47	2	.	.
GREEN SUNFISH	YOY	27	1	.	.
PUMPKINSEED	.	113	38	.	.
PUMPKINSEED	.	100	25	.	.
PUMPKINSEED	.	110	32	.	.
PUMPKINSEED	.	97	22	.	.
PUMPKINSEED	.	112	31	.	.
PUMPKINSEED	.	106	28	.	.
PUMPKINSEED	.	105	28	.	.
ORANGESPOTTED SUNFISH	.	58	4	.	.
ORANGESPOTTED SUNFISH	.	65	5	.	.
ORANGESPOTTED SUNFISH	.	62	5	.	.
ORANGESPOTTED SUNFISH	.	62	5	.	.
ORANGESPOTTED SUNFISH	.	62	5	.	.
ORANGESPOTTED SUNFISH	YOY	53	3	.	.
BLUEGILL	.	102	20	.	.
BLUEGILL	.	110	28	.	.
BLUEGILL	.	110	29	.	.
BLUEGILL	YOY	80	10	.	.
BLUEGILL	.	107	27	.	.
LARGEMOUTH BASS	.	169	65	.	.
LARGEMOUTH BASS	.	119	22	.	.
ROUND GOBY	YOY	47	2	.	.
ROUND GOBY	.	62	4	.	.
ROUND GOBY	YOY	51	2	.	.
ROUND GOBY	.	72	6	.	.
ROUND GOBY	YOY	53	2	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	53	2	.	.
ROUND GOBY	YOY	45	2	.	.
ROUND GOBY	YOY	35	1	.	.

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 26AUG13:17:28 END DATE AND TIME: 26AUG13:17:56

GIZZARD SHAD	.	223	120	.	.
GIZZARD SHAD	.	225	110	.	.
GIZZARD SHAD	.	254	190	.	.
GIZZARD SHAD	.	242	145	.	.
GIZZARD SHAD	.	138	28	.	.
GOLDFISH	.	198	140	.	.
GOLDFISH	.	186	130	.	.
GOLDFISH	.	210	180	.	.
GOLDFISH	.	178	120	.	.
GOLDFISH	.	182	110	.	.
GOLDFISH	.	193	130	.	.
BLUNTNOSE MINNOW	YOY	.	.	2	1
BLUNTNOSE MINNOW	.	.	.	2	2
GREEN SUNFISH	.	103	27	.	.
PUMPKINSEED	.	95	20	.	.
PUMPKINSEED	.	112	37	.	.
BLUEGILL	.	94	18	.	.
BLUEGILL	.	119	39	.	.
BLUEGILL	.	119	35	.	.
BLUEGILL	.	118	37	.	.
BLUEGILL	.	109	26	.	.
BLUEGILL	.	119	35	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	97	18	.	.
BLUEGILL	YOY	80	10	.	.
BLUEGILL	.	103	22	.	.
BLUEGILL	.	102	21	.	.
BLUEGILL	.	93	16	.	.
BLUEGILL	YOY	74	9	.	.
BLUEGILL	.	92	15	.	.
BLUEGILL	.	93	15	.	.
BLUEGILL	.	91	14	.	.
Lepomis HYBRID	.	163	130	.	.
Lepomis HYBRID	.	.	.	1	34
ROUND GOBY	YOY	28	1	.	.
ROUND GOBY	YOY	30	1	.	.
ROUND GOBY	YOY	33	1	.	.
ROUND GOBY	.	81	8	.	.
ROUND GOBY	.	88	11	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	.	70	5	.	.
ROUND GOBY	.	78	8	.	.
ROUND GOBY	YOY	36	1	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	49	2	.	.
ROUND GOBY	YOY	54	2	.	.

SITE: SHIP CANAL LOCATION: 307 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 26AUG13:18:25 END DATE AND TIME: 26AUG13:18:53

GIZZARD SHAD	.	242	160	.	.
GIZZARD SHAD	.	232	130	.	.
GIZZARD SHAD	.	207	80	.	.
GIZZARD SHAD	.	292	240	.	.
GIZZARD SHAD	.	268	190	.	.
GIZZARD SHAD	.	224	120	.	.
GIZZARD SHAD	.	202	65	.	.
GIZZARD SHAD	.	193	70	.	.
GIZZARD SHAD	.	242	155	.	.
GIZZARD SHAD	.	204	105	.	.
GIZZARD SHAD	.	186	65	.	.
COMMON CARP	.	640	4050	.	.
EMERALD SHINER	.	.	.	1	4
BLUNTNose MINNOW	.	.	.	26	38
GREEN SUNFISH	.	163	115	.	.
GREEN SUNFISH	.	131	51	.	.
GREEN SUNFISH	.	94	19	.	.
GREEN SUNFISH	.	51	4	.	.
GREEN SUNFISH	.	73	10	.	.
GREEN SUNFISH	.	131	58	.	.
GREEN SUNFISH	.	120	46	.	.
GREEN SUNFISH	.	79	9	.	.
GREEN SUNFISH	.	101	26	.	.
GREEN SUNFISH	.	65	6	.	.
GREEN SUNFISH	.	99	24	.	.
GREEN SUNFISH	.	72	9	.	.
GREEN SUNFISH	.	73	10	.	.
ORANGESPOTTED SUNFISH	.	64	5	.	.
BLUEGILL	.	161	95	.	.
BLUEGILL	YOY	76	10	.	.
BLUEGILL	.	90	15	.	.
BLUEGILL	.	91	16	.	.
SMALLMOUTH BASS	YOY	72	5	.	.
LARGEMOUTH BASS	.	163	60	.	.
LARGEMOUTH BASS	.	234	230	.	.
LARGEMOUTH BASS	.	138	41	.	.
LARGEMOUTH BASS	.	109	19	.	.
ROUND GOBY	.	.	.	1	2
ROUND GOBY	.	70	5	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	40	1	.	.
ROUND GOBY	YOY	47	2	.	.
ROUND GOBY	YOY	52	2	.	.
ROUND GOBY	YOY	51	2	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	YOY	54	2	.	.
ROUND GOBY	YOY	35	1	.	.

SITE: SHIP CANAL LOCATION: 309 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 27AUG13:08:37 END DATE AND TIME: 27AUG13:09:07

GIZZARD SHAD	.	273	220	.	.
GIZZARD SHAD	.	288	280	.	.
GIZZARD SHAD	.	296	320	.	.
GIZZARD SHAD	.	268	240	.	.
GIZZARD SHAD	.	242	160	.	.
GIZZARD SHAD	.	176	52	.	.
GIZZARD SHAD	YOY	89	8	.	.
GIZZARD SHAD	YOY	108	13	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	119	18	.	.
GIZZARD SHAD	.	132	24	.	.
GIZZARD SHAD	.	116	18	.	.
GIZZARD SHAD	YOY	101	11	.	.
GIZZARD SHAD	YOY	94	10	.	.
GIZZARD SHAD	.	164	46	.	.
GIZZARD SHAD	.	134	25	.	.
GIZZARD SHAD	.	121	19	.	.
GIZZARD SHAD	YOY	102	12	.	.
GIZZARD SHAD	YOY	90	8	.	.
GIZZARD SHAD	YOY	100	12	.	.
GIZZARD SHAD	YOY	74	5	.	.
GIZZARD SHAD	YOY	106	14	.	.
GIZZARD SHAD	YOY	104	13	.	.
GIZZARD SHAD	YOY	106	14	.	.
GIZZARD SHAD	.	120	18	.	.
GIZZARD SHAD	.	120	19	.	.
GIZZARD SHAD	YOY	104	12	.	.
GIZZARD SHAD	YOY	93	9	.	.
GIZZARD SHAD	YOY	108	14	.	.
BLUNTNOSE MINNOW	.	.	.	1	1
PUMPKINSEED	.	111	32	.	.
BLUEGILL	.	94	18	.	.
Lepomis sp.	YOY	29	1	.	.
Lepomis sp.	YOY	25	1	.	.
LARGEMOUTH BASS	YOY	82	8	.	.
FRESHWATER DRUM	.	425	920	.	.

SITE: DESPLAINES LOCATION: 402 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 10SEP13:08:40 END DATE AND TIME: 10SEP13:09:15

LONGNOSE GAR	.	596	530	.	.
GOLDFISH	.	176	105	.	.
COMMON CARP	.	517	1980	.	.
COMMON CARP	.	391	825	.	.
EMERALD SHINER	.	.	.	1	6
SPOTTAIL SHINER	.	.	.	1	4
SPOTFIN SHINER	.	.	.	2	3
BLUNTNOSE MINNOW	.	.	.	2	3
SHORTHEAD REDHORSE	.	240	120	.	.
CHANNEL CATFISH	.	575	1810	.	.
CHANNEL CATFISH	.	481	1180	.	.
ROCK BASS	.	182	135	.	.
GREEN SUNFISH	.	79	11	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	YOY	63	5	.	.
GREEN SUNFISH	.	97	15	.	.
PUMPKINSEED	.	83	12	.	.
PUMPKINSEED	.	87	16	.	.
BLUEGILL	.	146	58	.	.
BLUEGILL	.	108	20	.	.
BLUEGILL	.	92	16	.	.
BLUEGILL	.	88	14	.	.
BLUEGILL	.	95	17	.	.
BLUEGILL	.	86	13	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	95	18	.	.
SMALLMOUTH BASS	.	203	110	.	.
LARGEMOUTH BASS	.	361	600	.	.
LARGEMOUTH BASS	.	248	220	.	.
LARGEMOUTH BASS	YOY	127	30	.	.
LARGEMOUTH BASS	YOY	124	31	.	.
JOHNNY DARTER	.	.	.	1	1
BLACKSIDE DARTER	.	.	.	1	2
FRESHWATER DRUM	.	560	3150	.	.
FRESHWATER DRUM	.	398	720	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	69	5	.	.
ROUND GOBY	YOY	55	3	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	57	3	.	.
ROUND GOBY	YOY	63	4	.	.

SITE: DESPLAINES LOCATION: 402A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 10SEP13:09:39 END DATE AND TIME: 10SEP13:10:15

GIZZARD SHAD	.	241	90	.	.
GIZZARD SHAD	.	204	65	.	.
GIZZARD SHAD	.	203	80	.	.
GIZZARD SHAD	.	187	61	.	.
GIZZARD SHAD	.	283	185	.	.
GIZZARD SHAD	.	187	56	.	.
GIZZARD SHAD	.	263	170	.	.
GIZZARD SHAD	.	204	80	.	.
GIZZARD SHAD	.	210	85	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	196	71	.	.
GIZZARD SHAD	.	207	90	.	.
GIZZARD SHAD	.	225	92	.	.
GIZZARD SHAD	.	207	90	.	.
GIZZARD SHAD	.	203	81	.	.
GIZZARD SHAD	.	206	86	.	.
GIZZARD SHAD	.	187	58	.	.
GIZZARD SHAD	.	177	54	.	.
GIZZARD SHAD	.	212	95	.	.
GIZZARD SHAD	.	191	71	.	.
GIZZARD SHAD	.	207	90	.	.
GIZZARD SHAD	.	258	130	.	.
COMMON CARP	.	546	2340	.	.
BLUNTNOSE MINNOW	.	.	.	38	53
SMALLMOUTH BUFFALO	.	535	2890	.	.
GREEN SUNFISH	.	120	34	.	.
GREEN SUNFISH	.	109	26	.	.
GREEN SUNFISH	.	100	20	.	.
GREEN SUNFISH	.	90	15	.	.
GREEN SUNFISH	.	119	43	.	.
PUMPKINSEED	.	91	15	.	.
BLUEGILL	.	115	28	.	.
BLUEGILL	.	145	57	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	.	101	23	.	.
BLUEGILL	.	94	16	.	.
BLUEGILL	.	104	24	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	110	27	.	.
BLUEGILL	.	106	26	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	.	102	21	.	.
BLUEGILL	.	85	13	.	.
Lepomis HYBRID	.	.	.	1	26
LARGEMOUTH BASS	.	218	105	.	.
LARGEMOUTH BASS	.	250	215	.	.
LARGEMOUTH BASS	YOY	115	18	.	.
LARGEMOUTH BASS	YOY	117	18	.	.
LARGEMOUTH BASS	YOY	124	25	.	.
LARGEMOUTH BASS	YOY	102	15	.	.
LARGEMOUTH BASS	YOY	120	26	.	.
FRESHWATER DRUM	.	452	1200	.	.
ROUND GOBY	.	76	6	.	.
ROUND GOBY	YOY	45	1	.	.

SITE: DESPLAINES LOCATION: 403 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 10SEP13:10:41 END DATE AND TIME: 10SEP13:11:09

GIZZARD SHAD	.	203	88	.	.
BLUNTNOSE MINNOW	.	.	.	1	1
QUILLBACK	.	283	280	.	.
CHANNEL CATFISH	.	505	1250	.	.
CHANNEL CATFISH	.	508	1220	.	.
CHANNEL CATFISH	.	455	950	.	.
BLACKSTRIPE TOPMINNOW	.	.	.	7	6
GREEN SUNFISH	.	142	76	.	.
GREEN SUNFISH	.	127	45	.	.
GREEN SUNFISH	.	73	10	.	.
GREEN SUNFISH	.	108	36	.	.
GREEN SUNFISH	.	88	17	.	.
GREEN SUNFISH	.	106	30	.	.
PUMPKINSEED	YOY	72	8	.	.
PUMPKINSEED	YOY	76	10	.	.
BLUEGILL	.	128	38	.	.
BLUEGILL	.	122	34	.	.
BLUEGILL	.	106	26	.	.
BLUEGILL	YOY	62	4	.	.
BLUEGILL	.	77	8	.	.
BLUEGILL	.	87	13	.	.
BLUEGILL	.	93	17	.	.
BLUEGILL	.	96	16	.	.
Lepomis HYBRID	.	.	.	3	61
LARGEMOUTH BASS	YOY	103	14	.	.
LARGEMOUTH BASS	YOY	84	9	.	.

SITE: DESPLAINES LOCATION: 403A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 10SEP13:11:59 END DATE AND TIME: 10SEP13:12:31

GIZZARD SHAD	.	209	80	.	.
GIZZARD SHAD	.	205	91	.	.
GIZZARD SHAD	.	188	72	.	.
RIVER CARPSUCKER	.	392	760	.	.
SMALLMOUTH BUFFALO	.	466	1610	.	.
CHANNEL CATFISH	.	561	1520	.	.
PUMPKINSEED	.	97	23	.	.
BLUEGILL	.	102	20	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	112	28	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	.	87	14	.	.
LARGEMOUTH BASS	.	297	275	.	.
LARGEMOUTH BASS	.	252	230	.	.
LARGEMOUTH BASS	YOY	117	19	.	.

SITE: DESPLAINES LOCATION: 404A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 10SEP13:13:08 END DATE AND TIME: 10SEP13:13:41

GIZZARD SHAD	.	202	77	.	.
COMMON CARP	.	322	460	.	.
SPOTFIN SHINER	YOY	.	.	1	1
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSSE MINNOW	.	.	.	7	8
YELLOW BULLHEAD	.	268	250	.	.
CHANNEL CATFISH	.	418	650	.	.
CHANNEL CATFISH	.	418	770	.	.
GREEN SUNFISH	.	107	31	.	.
GREEN SUNFISH	.	99	19	.	.
BLUEGILL	.	112	26	.	.
BLUEGILL	.	137	48	.	.
BLUEGILL	.	101	22	.	.
BLUEGILL	YOY	61	4	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	YOY	65	5	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	.	93	18	.	.
BLUEGILL	.	100	22	.	.
BLUEGILL	.	100	23	.	.
BLUEGILL	.	97	19	.	.
BLUEGILL	YOY	45	2	.	.
SMALLMOUTH BASS	.	235	145	.	.
LARGEMOUTH BASS	.	322	410	.	.
FRESHWATER DRUM	.	402	700	.	.

SITE: DESPLAINES LOCATION: 405 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 10SEP13:14:50 END DATE AND TIME: 10SEP13:15:24

GIZZARD SHAD	.	261	175	.	.
BLUNTNOSSE MINNOW	.	.	.	3	3
BLUNTNOSSE MINNOW	YOY	.	.	1	1
GREEN SUNFISH	.	77	11	.	.
GREEN SUNFISH	YOY	62	6	.	.
GREEN SUNFISH	YOY	67	7	.	.
BLUEGILL	.	171	95	.	.
BLUEGILL	.	137	54	.	.
BLUEGILL	.	108	24	.	.
BLUEGILL	.	107	24	.	.
BLUEGILL	.	137	51	.	.
BLUEGILL	.	135	46	.	.
BLUEGILL	.	142	60	.	.
BLUEGILL	.	110	30	.	.
BLUEGILL	YOY	39	1	.	.
NORTHERN SUNFISH	.	90	21	.	.
LARGEMOUTH BASS	YOY	122	22	.	.
LARGEMOUTH BASS	YOY	100	12	.	.
LARGEMOUTH BASS	YOY	95	11	.	.
FRESHWATER DRUM	.	380	550	.	.

SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 10SEP13:16:06 END DATE AND TIME: 10SEP13:16:44

GIZZARD SHAD	.	207	85	.	.
GIZZARD SHAD	.	228	120	.	.
GIZZARD SHAD	.	187	65	.	.
GIZZARD SHAD	.	202	71	.	.
GIZZARD SHAD	YOY	128	20	.	.
GIZZARD SHAD	YOY	126	24	.	.
GIZZARD SHAD	YOY	108	14	.	.
GOLDFISH	.	225	235	.	.
COMMON CARP	.	352	745	.	.
COMMON CARP	.	352	685	.	.
SPOTTAIL SHINER	.	.	.	1	6
BLUNTNOSSE MINNOW	.	.	.	4	7
YELLOW BULLHEAD	.	260	275	.	.
GREEN SUNFISH	.	133	51	.	.
GREEN SUNFISH	.	95	17	.	.
GREEN SUNFISH	.	85	12	.	.
GREEN SUNFISH	.	75	10	.	.
GREEN SUNFISH	YOY	63	5	.	.
GREEN SUNFISH	.	77	9	.	.
GREEN SUNFISH	.	114	32	.	.
GREEN SUNFISH	YOY	43	3	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	78	11	.	.
GREEN SUNFISH	YOY	69	8	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	YOY	58	4	.	.
GREEN SUNFISH	.	71	7	.	.
GREEN SUNFISH	.	84	13	.	.
PUMPKINSEED	.	108	23	.	.
PUMPKINSEED	.	115	37	.	.
ORANGESPOTTED SUNFISH	YOY	33	1	.	.
BLUEGILL	.	143	61	.	.
BLUEGILL	.	141	56	.	.
BLUEGILL	.	97	20	.	.
BLUEGILL	.	97	16	.	.
BLUEGILL	YOY	69	7	.	.
BLUEGILL	.	97	20	.	.
BLUEGILL	YOY	50	2	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	YOY	60	4	.	.
BLUEGILL	YOY	58	4	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	54	3	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	51	3	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	.	92	16	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	YOY	51	3	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	48	2	.	.
NORTHERN SUNFISH	.	79	11	.	.
NORTHERN SUNFISH	.	90	19	.	.
Lepomis HYBRID	.	.	.	1	12
Lepomis HYBRID	YOY	.	.	4	13
LARGEMOUTH BASS	.	397	1010	.	.
LARGEMOUTH BASS	.	202	110	.	.
LARGEMOUTH BASS	.	220	145	.	.
LARGEMOUTH BASS	.	275	310	.	.
LARGEMOUTH BASS	.	272	260	.	.
LARGEMOUTH BASS	YOY	120	21	.	.
LARGEMOUTH BASS	YOY	108	19	.	.
LARGEMOUTH BASS	YOY	109	18	.	.
LARGEMOUTH BASS	YOY	93	11	.	.
LARGEMOUTH BASS	YOY	102	15	.	.
LARGEMOUTH BASS	YOY	93	10	.	.
LARGEMOUTH BASS	YOY	91	10	.	.
YELLOW PERCH	.	105	13	.	.
BLACKSIDE DARTER	.	.	.	1	3

SITE: DESPLAINES LOCATION: 412A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 11SEP13:10:33 END DATE AND TIME: 11SEP13:11:13

GIZZARD SHAD	.	231	121	.	.
GIZZARD SHAD	.	227	127	.	.
GIZZARD SHAD	YOY	122	18	.	.
THREADFIN SHAD	YOY	73	4	.	.
THREADFIN SHAD	YOY	63	2	.	.
THREADFIN SHAD	YOY	64	3	.	.
THREADFIN SHAD	YOY	50	1	.	.
THREADFIN SHAD	YOY	66	3	.	.
THREADFIN SHAD	YOY	67	3	.	.
THREADFIN SHAD	YOY	74	4	.	.
THREADFIN SHAD	YOY	77	4	.	.
THREADFIN SHAD	YOY	71	4	.	.
THREADFIN SHAD	YOY	66	3	.	.
THREADFIN SHAD	YOY	75	4	.	.
THREADFIN SHAD	YOY	67	3	.	.
THREADFIN SHAD	YOY	70	4	.	.
THREADFIN SHAD	YOY	52	2	.	.
THREADFIN SHAD	YOY	50	1	.	.
THREADFIN SHAD	YOY	70	3	.	.
THREADFIN SHAD	YOY	46	1	.	.
THREADFIN SHAD	YOY	56	2	.	.
THREADFIN SHAD	YOY	54	2	.	.
THREADFIN SHAD	YOY	62	2	.	.
THREADFIN SHAD	YOY	52	1	.	.
THREADFIN SHAD	YOY	56	2	.	.
THREADFIN SHAD	YOY	57	2	.	.
THREADFIN SHAD	YOY	63	3	.	.
THREADFIN SHAD	YOY	58	2	.	.
THREADFIN SHAD	YOY	59	2	.	.
THREADFIN SHAD	YOY	53	2	.	.
COMMON CARP	.	.	.	1	1500

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUNTNOSE MINNOW	.	.	.	23	30
BLUNTNOSE MINNOW	YOY	.	.	6	1
ROCK BASS	YOY	45	2	.	.
ROCK BASS	YOY	50	3	.	.
GREEN SUNFISH	YOY	65	6	.	.
PUMPKINSEED	.	132	50	.	.
BLUEGILL	.	153	56	.	.
BLUEGILL	.	150	70	.	.
BLUEGILL	.	128	40	.	.
BLUEGILL	.	102	18	.	.
BLUEGILL	.	107	25	.	.
BLUEGILL	.	96	20	.	.
BLUEGILL	.	91	16	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	YOY	61	4	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	50	2	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	59	4	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	44	1	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	57	4	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	57	4	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	54	3	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	YOY	.	.	13	25
NORTHERN SUNFISH	.	90	18	.	.
Lepomis HYBRID	.	.	.	1	26
LARGEMOUTH BASS	YOY	95	8	.	.
LARGEMOUTH BASS	YOY	110	13	.	.
SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT: .					
START DATE AND TIME: 11SEP13:11:43 END DATE AND TIME: 11SEP13:12:29					
GIZZARD SHAD	.	258	150	.	.
GIZZARD SHAD	.	225	103	.	.
GIZZARD SHAD	.	358	320	.	.
GIZZARD SHAD	.	286	195	.	.
GIZZARD SHAD	.	194	74	.	.
GIZZARD SHAD	.	253	120	.	.
GIZZARD SHAD	.	197	72	.	.
GIZZARD SHAD	.	207	88	.	.
GIZZARD SHAD	.	240	105	.	.
GIZZARD SHAD	.	292	175	.	.
GIZZARD SHAD	.	253	120	.	.
GIZZARD SHAD	.	316	260	.	.
GIZZARD SHAD	.	277	145	.	.
GIZZARD SHAD	.	198	72	.	.
GIZZARD SHAD	.	183	62	.	.
GIZZARD SHAD	.	243	115	.	.
GIZZARD SHAD	.	257	145	.	.
GIZZARD SHAD	.	278	190	.	.
GIZZARD SHAD	.	300	230	.	.
THREADFIN SHAD	YOY	66	3	.	.
COMMON CARP	.	476	1300	.	.
COMMON CARP	.	437	990	.	.
PALLID SHINER	.	.	.	1	1
SPOTTAIL SHINER	.	.	.	1	3
BLUNTNOSE MINNOW	.	.	.	4	6
RIVER CARPSUCKER	.	462	1080	.	.
SMALLMOUTH BUFFALO	.	323	500	.	.
SMALLMOUTH BUFFALO	.	517	2770	.	.
YELLOW BULLHEAD	.	177	55	.	.
GREEN SUNFISH	.	117	41	.	.
GREEN SUNFISH	.	87	13	.	.
ORANGESPOTTED SUNFISH	.	77	10	.	.
ORANGESPOTTED SUNFISH	.	65	5	.	.
ORANGESPOTTED SUNFISH	.	61	4	.	.
ORANGESPOTTED SUNFISH	YOY	47	2	.	.
ORANGESPOTTED SUNFISH	YOY	42	2	.	.
ORANGESPOTTED SUNFISH	YOY	46	2	.	.
ORANGESPOTTED SUNFISH	YOY	32	1	.	.
ORANGESPOTTED SUNFISH	YOY	29	1	.	.
ORANGESPOTTED SUNFISH	YOY	32	1	.	.
BLUEGILL	.	142	56	.	.
BLUEGILL	.	119	34	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	147	64	.	.
BLUEGILL	.	123	37	.	.
BLUEGILL	.	108	22	.	.
BLUEGILL	.	129	40	.	.
BLUEGILL	.	117	28	.	.
BLUEGILL	.	129	42	.	.
BLUEGILL	.	116	26	.	.
BLUEGILL	.	113	25	.	.
BLUEGILL	.	93	16	.	.
BLUEGILL	.	108	23	.	.
BLUEGILL	.	137	50	.	.
BLUEGILL	.	132	51	.	.
BLUEGILL	.	141	56	.	.
BLUEGILL	.	150	73	.	.
BLUEGILL	.	133	42	.	.
BLUEGILL	.	135	50	.	.
BLUEGILL	.	.	.	17	490
BLUEGILL	.	142	64	.	.
BLUEGILL	.	.	.	15	555
BLUEGILL	.	.	.	11	350
BLUEGILL	.	154	86	.	.
BLUEGILL	.	163	99	.	.
BLUEGILL	.	151	61	.	.
BLUEGILL	.	.	.	6	200
BLUEGILL	.	.	.	10	355
BLUEGILL	.	.	.	10	305
BLUEGILL	.	.	.	9	395
BLUEGILL	.	152	71	.	.
BLUEGILL	.	147	62	.	.
BLUEGILL	.	.	.	2	80
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	42	1	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	44	2	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	.	.	.	12	148
BLUEGILL	YOY	.	.	61	76
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	27	.	.	1
Lepomis sp.	YOY	28	.	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	24	.	.	3
LARGEMOUTH BASS	YOY	93	9	.	.
LARGEMOUTH BASS	YOY	98	10	.	.
LARGEMOUTH BASS	YOY	73	5	.	.
LARGEMOUTH BASS	YOY	92	10	.	.
LARGEMOUTH BASS	YOY	112	19	.	.
LARGEMOUTH BASS	.	310	405	.	.
LARGEMOUTH BASS	.	326	440	.	.
LARGEMOUTH BASS	YOY	102	14	.	.
LARGEMOUTH BASS	YOY	98	11	.	.
LARGEMOUTH BASS	YOY	85	7	.	.
LARGEMOUTH BASS	YOY	108	18	.	.
LARGEMOUTH BASS	YOY	113	17	.	.
LARGEMOUTH BASS	.	217	115	.	.
LARGEMOUTH BASS	YOY	116	22	.	.
LARGEMOUTH BASS	.	250	200	.	.
LARGEMOUTH BASS	.	187	65	.	.
LARGEMOUTH BASS	YOY	115	16	.	.
LARGEMOUTH BASS	YOY	112	17	.	.
LARGEMOUTH BASS	YOY	102	12	.	.
LARGEMOUTH BASS	YOY	107	15	.	.
LARGEMOUTH BASS	.	268	265	.	.
LARGEMOUTH BASS	.	197	95	.	.
LARGEMOUTH BASS	YOY	80	6	.	.
LARGEMOUTH BASS	YOY	95	12	.	.
LARGEMOUTH BASS	YOY	91	8	.	.
LARGEMOUTH BASS	YOY	89	10	.	.
LARGEMOUTH BASS	YOY	77	6	.	.
LARGEMOUTH BASS	YOY	81	8	.	.
LARGEMOUTH BASS	YOY	86	8	.	.
LARGEMOUTH BASS	YOY	86	8	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 11SEP13:13:48 END DATE AND TIME: 11SEP13:14:29					

GIZZARD SHAD	.	277	165	.	.
GIZZARD SHAD	.	271	150	.	.
GIZZARD SHAD	.	278	165	.	.
GIZZARD SHAD	.	242	110	.	.
GIZZARD SHAD	.	274	160	.	.
THREADFIN SHAD	YOY	63	3	.	.
THREADFIN SHAD	YOY	80	5	.	.
COMMON CARP	.	213	175	.	.
SPOTTAIL SHINER	.	.	.	1	2
BLUNTNOST MINNOW	.	.	.	2	2
BULLHEAD MINNOW	.	.	.	2	2
BULLHEAD MINNOW	YOY	.	.	1	1
YELLOW BASS	YOY	80	7	.	.
GREEN SUNFISH	.	108	25	.	.
ORANGESPOTTED SUNFISH	.	69	6	.	.
ORANGESPOTTED SUNFISH	.	72	7	.	.
BLUEGILL	.	154	91	.	.
BLUEGILL	.	129	39	.	.
BLUEGILL	.	136	45	.	.
BLUEGILL	.	130	48	.	.
BLUEGILL	.	154	65	.	.
BLUEGILL	.	117	30	.	.
BLUEGILL	.	162	80	.	.
BLUEGILL	.	86	13	.	.
BLUEGILL	.	95	17	.	.
BLUEGILL	.	112	28	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	32	1	.	.
LOGPERCH	.	.	.	1	4
LOGPERCH	.	.	.	1	4
LOGPERCH	.	.	.	1	3

SITE: DESPLAINES LOCATION: 419A		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 11SEP13:15:10		END DATE AND TIME: 11SEP13:15:48			

GIZZARD SHAD	.	200	88	.	.
GIZZARD SHAD	.	214	111	.	.
GIZZARD SHAD	YOY	118	17	.	.
GIZZARD SHAD	YOY	98	10	.	.
GIZZARD SHAD	YOY	121	19	.	.
COMMON CARP	.	330	525	.	.
SPOTTAIL SHINER	.	.	.	1	4
SMALLMOUTH BUFFALO	.	452	1440	.	.
CHANNEL CATFISH	.	411	720	.	.
ROCK BASS	.	188	125	.	.
GREEN SUNFISH	.	79	11	.	.
GREEN SUNFISH	YOY	57	4	.	.
GREEN SUNFISH	.	79	10	.	.
GREEN SUNFISH	.	78	11	.	.
GREEN SUNFISH	.	92	17	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	74	9	.	.
BLUEGILL	.	135	39	.	.
BLUEGILL	.	131	41	.	.
BLUEGILL	.	121	34	.	.
BLUEGILL	.	123	37	.	.
BLUEGILL	.	108	23	.	.
BLUEGILL	.	127	38	.	.
BLUEGILL	.	108	23	.	.
BLUEGILL	.	145	61	.	.
BLUEGILL	YOY	56	3	.	.
BLUEGILL	.	81	10	.	.
BLUEGILL	.	94	16	.	.
BLUEGILL	.	99	21	.	.
NORTHERN SUNFISH	.	100	27	.	.
NORTHERN SUNFISH	.	80	13	.	.
NORTHERN SUNFISH	.	83	14	.	.
LARGEMOUTH BASS	YOY	88	8	.	.
LARGEMOUTH BASS	.	267	235	.	.
LARGEMOUTH BASS	YOY	92	9	.	.
LARGEMOUTH BASS	YOY	98	12	.	.
LARGEMOUTH BASS	.	191	80	.	.
LARGEMOUTH BASS	YOY	91	9	.	.
LARGEMOUTH BASS	YOY	89	10	.	.
LARGEMOUTH BASS	YOY	84	8	.	.
LARGEMOUTH BASS	YOY	97	11	.	.
LARGEMOUTH BASS	YOY	99	12	.	.
LARGEMOUTH BASS	YOY	96	12	.	.
LOGPERCH	.	.	.	1	5

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: DESPLAINES LOCATION: 402 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 10SEP13:08:15 END DATE AND TIME: 10SEP13:08:19					
SPOTFIN SHINER	.	.	.	2	2
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	12	12
BLACKSTRIPE TOPMINNOW	YOY	.	.	1	1
LARGEMOUTH BASS	YOY	89	11	.	.
LARGEMOUTH BASS	YOY	95	12	.	.
SITE: DESPLAINES LOCATION: 403A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 10SEP13:07:51 END DATE AND TIME: 10SEP13:08:00					
BLUNTNOSE MINNOW	.	.	.	2	3
BLACKSTRIPE TOPMINNOW	.	.	.	2	2
WESTERN MOSQUITOFISH	.	.	.	1	1
BLUEGILL	.	110	30	.	.
SITE: DESPLAINES LOCATION: 404A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 10SEP13:07:36 END DATE AND TIME: 10SEP13:07:41					
SPOTFIN SHINER	.	.	.	13	8
SAND SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	46	44
BLUNTNOSE MINNOW	YOY	.	.	3	1
BLUNTNOSE MINNOW	.	.	.	1	1
BLACKSTRIPE TOPMINNOW	.	.	.	1	1
BLUEGILL	YOY	44	2	.	.
Lepomis sp.	YOY	21	1	.	.
SITE: DESPLAINES LOCATION: 405 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 10SEP13:07:23 END DATE AND TIME: 10SEP13:07:29					
NORTHERN SUNFISH	.	75	12	.	.
SITE: DESPLAINES LOCATION: 408 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 10SEP13:07:09 END DATE AND TIME: 10SEP13:07:16					
BLUNTNOSE MINNOW	.	.	.	40	51
BLACKSTRIPE TOPMINNOW	YOY	.	.	3	1
PUMPKINSEED	YOY	45	2	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	YOY	42	2	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	27	1	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	43	2	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	44	2	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	49	3	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	.	.	48	48
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	25	.	.	1
LARGEMOUTH BASS	YOY	100	15	.	.
BLACKSIDE DARTER	.	.	.	1	3
SITE: DESPLAINES LOCATION: 412A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 11SEP13:09:39 END DATE AND TIME: 11SEP13:09:45					
WESTERN MOSQUITOFISH	.	.	.	1	1
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	36	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	YOY	52	3	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	40	2	.	.
BLUEGILL	YOY	62	5	.	.
BLUEGILL	YOY	42	2	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	32	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	34	1	.	.
LARGEMOUTH BASS	YOY	102	16	.	.

SITE: DESPLAINES LOCATION: 414 GEAR: SEINE MESOHABITAT:
 START DATE AND TIME: 11SEP13:10:04 END DATE AND TIME: 11SEP13:10:10

GIZZARD SHAD	YOY	120	19	.	.
SPOTFIN SHINER	.	.	.	2	1
BLUNTNOSE MINNOW	.	.	.	4	5
PUMPKINSEED	YOY	46	2	.	.
PUMPKINSEED	YOY	67	6	.	.
BLUEGILL	.	109	28	.	.
BLUEGILL	.	115	33	.	.
BLUEGILL	YOY	69	6	.	.
BLUEGILL	.	87	13	.	.
BLUEGILL	.	114	35	.	.
BLUEGILL	.	90	16	.	.
BLUEGILL	.	93	17	.	.
BLUEGILL	YOY	61	4	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	51	3	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	YOY	49	3	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	32	1	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	44	2	.	.
BLUEGILL	YOY	32	1	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	52	3	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	.	.	20	55
Lepomis sp.	YOY	22	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	17	.	.	.
Lepomis sp.	YOY	30	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	20	.	.	3
Lepomis sp.	YOY	23	1	.	.
LARGEMOUTH BASS	YOY	94	11	.	.
LARGEMOUTH BASS	YOY	74	6	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: SEINE MESOHABITAT:
 START DATE AND TIME: 11SEP13:13:28 END DATE AND TIME: 11SEP13:13:34

BLACKSTRIPE TOPMINNOW	YOY	.	.	1	1
PUMPKINSEED	YOY	42	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	33	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	-----	-----	-----	-----	-----
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	32	1	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	24	.	.	1
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	26	.	.	1
LARGEMOUTH BASS	YOY	85	9	.	.
SITE: DESPLAINES LOCATION: 419A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 11SEP13:16:03 END DATE AND TIME: 11SEP13:16:10					
BLUNTNOSE MINNOW	.	.	.	3	5
SITE: SHIP CANAL LOCATION: 302A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 09SEP13:10:05 END DATE AND TIME: 09SEP13:10:11					
NO FISH	.	.	.	0	.
SITE: SHIP CANAL LOCATION: 304 GEAR: SEINE MESOHABITAT:					
START DATE AND TIME: 09SEP13:12:33 END DATE AND TIME: 09SEP13:12:40					
BLUNTNOSE MINNOW	YOY	.	.	2	1
BANDED KILLIFISH	YOY	.	.	6	2
BLACKSTRIPE TOPMINNOW	.	.	.	34	27
BLACKSTRIPE TOPMINNOW	YOY	.	.	3	1
WESTERN MOSQUITOFISH	.	.	.	2	1
LARGEMOUTH BASS	YOY	108	19	.	.
LARGEMOUTH BASS	YOY	105	18	.	.
SITE: SHIP CANAL LOCATION: 305 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 09SEP13:12:23 END DATE AND TIME: 09SEP13:12:29					
BLUNTNOSE MINNOW	.	.	.	1	2
BANDED KILLIFISH	.	.	.	1	3
BANDED KILLIFISH	.	.	.	1	1
ROUND GOBY	YOY	40	1	.	.
ROUND GOBY	YOY	43	1	.	.
ROUND GOBY	YOY	61	4	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	37	1	.	.
SITE: SHIP CANAL LOCATION: 306 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 09SEP13:12:11 END DATE AND TIME: 09SEP13:12:17					
BLUNTNOSE MINNOW	.	.	.	5	4
TADPOLE MADTOM	.	67	4	.	.
SITE: SHIP CANAL LOCATION: 307 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 09SEP13:12:00 END DATE AND TIME: 09SEP13:12:07					
BLUNTNOSE MINNOW	.	.	.	39	47
PUMPKINSEED	.	93	19	.	.
BLUEGILL	YOY	80	11	.	.
ROUND GOBY	YOY	50	2	.	.
SITE: SHIP CANAL LOCATION: 301 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 09SEP13:07:28 END DATE AND TIME: 09SEP13:08:08					
GREEN SUNFISH	.	114	31	.	.
SITE: SHIP CANAL LOCATION: 302 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 09SEP13:08:20 END DATE AND TIME: 09SEP13:08:53					
GIZZARD SHAD	YOY	88	9	.	.
GIZZARD SHAD	.	151	40	.	.
GIZZARD SHAD	.	145	33	.	.
GIZZARD SHAD	YOY	64	3	.	.
GIZZARD SHAD	YOY	68	3	.	.
GIZZARD SHAD	YOY	66	3	.	.
GIZZARD SHAD	YOY	61	3	.	.
GIZZARD SHAD	YOY	63	3	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	68	4	.	.
THREADFIN SHAD	YOY	85	7	.	.
THREADFIN SHAD	YOY	84	6	.	.
THREADFIN SHAD	YOY	82	6	.	.
THREADFIN SHAD	YOY	75	4	.	.
EMERALD SHINER	.	.	.	1	6
SITE: SHIP CANAL LOCATION: 302A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 09SEP13:10:23 END DATE AND TIME: 09SEP13:10:56					
GIZZARD SHAD	YOY	116	19	.	.
GIZZARD SHAD	YOY	68	4	.	.
BLUNTNOSE MINNOW	.	.	.	7	14

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
ORIENTAL WEATHERFISH	YOY	64	2	.	.
ORIENTAL WEATHERFISH	.	96	6	.	.
PUMPKINSEED	.	115	38	.	.
PUMPKINSEED	.	114	36	.	.
PUMPKINSEED	.	92	15	.	.
PUMPKINSEED	.	109	31	.	.
PUMPKINSEED	.	105	27	.	.
PUMPKINSEED	.	86	15	.	.
PUMPKINSEED	.	111	32	.	.
BLUEGILL	.	101	23	.	.
BLUEGILL	.	103	26	.	.
BLUEGILL	.	112	30	.	.
BLUEGILL	.	96	18	.	.
LARGEMOUTH BASS	YOY	94	13	.	.
LARGEMOUTH BASS	YOY	96	12	.	.

SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 09SEP13:09:13 END DATE AND TIME: 09SEP13:09:57

GIZZARD SHAD	.	162	46	.	.
BLUNTNOSE MINNOW	.	.	.	5	16
BLUNTNOSE MINNOW	YOY	.	.	1	1
ORIENTAL WEATHERFISH	YOY	87	4	.	.
ORIENTAL WEATHERFISH	.	122	12	.	.
YELLOW BULLHEAD	YOY	55	3	.	.
YELLOW BULLHEAD	YOY	68	5	.	.
GREEN SUNFISH	.	85	14	.	.
GREEN SUNFISH	.	72	9	.	.
GREEN SUNFISH	.	83	13	.	.
GREEN SUNFISH	.	66	6	.	.
GREEN SUNFISH	.	81	14	.	.
GREEN SUNFISH	.	80	13	.	.
GREEN SUNFISH	.	67	6	.	.
GREEN SUNFISH	.	92	19	.	.
GREEN SUNFISH	.	78	12	.	.
GREEN SUNFISH	.	85	16	.	.
GREEN SUNFISH	.	79	11	.	.
GREEN SUNFISH	.	73	9	.	.
GREEN SUNFISH	.	80	14	.	.
GREEN SUNFISH	.	84	15	.	.
GREEN SUNFISH	.	82	13	.	.
GREEN SUNFISH	.	80	14	.	.
GREEN SUNFISH	.	82	12	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	.	80	13	.	.
GREEN SUNFISH	.	85	12	.	.
PUMPKINSEED	.	136	53	.	.
BLUEGILL	.	107	28	.	.
BLUEGILL	.	108	30	.	.
Lepomis sp.	YOY	25	1	.	.
LARGEMOUTH BASS	.	142	33	.	.
LARGEMOUTH BASS	YOY	107	12	.	.
LARGEMOUTH BASS	YOY	100	10	.	.
LARGEMOUTH BASS	YOY	98	12	.	.
ROUND GOBY	YOY	60	3	.	.
ROUND GOBY	YOY	60	3	.	.

SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 09SEP13:13:53 END DATE AND TIME: 09SEP13:14:21

GIZZARD SHAD	.	318	320	.	.
GIZZARD SHAD	.	280	230	.	.
GIZZARD SHAD	.	303	290	.	.
BLUNTNOSE MINNOW	.	.	.	2	11
CHANNEL CATFISH	.	409	650	.	.
ROUND GOBY	YOY	50	1	.	.

SITE: SHIP CANAL LOCATION: 304 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 09SEP13:12:54 END DATE AND TIME: 09SEP13:13:27

COMMON CARP	.	431	1250	.	.
BLUNTNOSE MINNOW	.	.	.	14	32
BLUNTNOSE MINNOW	.	.	.	1	1
YELLOW BULLHEAD	.	192	95	.	.
YELLOW BULLHEAD	.	162	59	.	.
CHANNEL CATFISH	.	485	1080	.	.
CHANNEL CATFISH	.	428	890	.	.
ROCK BASS	YOY	60	5	.	.
GREEN SUNFISH	.	70	8	.	.
BLUEGILL	.	120	32	.	.
BLUEGILL	.	137	48	.	.
BLUEGILL	.	91	15	.	.
BLUEGILL	.	107	28	.	.
SMALLMOUTH BASS	.	115	17	.	.
SMALLMOUTH BASS	.	110	18	.	.
SMALLMOUTH BASS	.	135	34	.	.
LARGEMOUTH BASS	.	150	46	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
LARGEMOUTH BASS	YOY	112	21	.	.
BLACKSIDE DARTER	.	.	.	1	2
ROUND GOBY	.	110	21	.	.
ROUND GOBY	.	65	4	.	.
ROUND GOBY	.	109	20	.	.
ROUND GOBY	.	87	10	.	.
ROUND GOBY	.	84	10	.	.
ROUND GOBY	.	96	14	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	YOY	35	1	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	.	71	6	.	.
ROUND GOBY	YOY	60	3	.	.
ROUND GOBY	.	76	7	.	.
ROUND GOBY	YOY	55	2	.	.
ROUND GOBY	YOY	56	3	.	.
ROUND GOBY	YOY	58	3	.	.
ROUND GOBY	YOY	43	1	.	.
ROUND GOBY	YOY	58	3	.	.
ROUND GOBY	.	92	12	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	47	2	.	.
ROUND GOBY	YOY	52	2	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	49	2	.	.
ROUND GOBY	YOY	56	3	.	.
ROUND GOBY	YOY	55	3	.	.
ROUND GOBY	YOY	43	1	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 09SEP13:14:36 END DATE AND TIME: 09SEP13:15:04

GIZZARD SHAD	.	198	77	.	.
GIZZARD SHAD	.	331	365	.	.
GIZZARD SHAD	.	288	240	.	.
GIZZARD SHAD	.	270	210	.	.
GIZZARD SHAD	.	202	72	.	.
BLUNTNOSE MINNOW	.	.	.	6	24
YELLOW BULLHEAD	.	168	66	.	.
GREEN SUNFISH	.	124	40	.	.
GREEN SUNFISH	.	72	7	.	.
GREEN SUNFISH	.	72	8	.	.
GREEN SUNFISH	.	66	7	.	.
PUMPKINSEED	.	105	27	.	.
PUMPKINSEED	.	92	18	.	.
PUMPKINSEED	.	106	27	.	.
PUMPKINSEED	.	106	26	.	.
PUMPKINSEED	.	104	25	.	.
PUMPKINSEED	.	103	25	.	.
PUMPKINSEED	.	103	25	.	.
ORANGESPOTTED SUNFISH	.	70	6	.	.
ORANGESPOTTED SUNFISH	YOY	57	3	.	.
BLUEGILL	.	112	32	.	.
BLUEGILL	YOY	87	12	.	.
BLUEGILL	.	109	27	.	.
LARGEMOUTH BASS	.	181	97	.	.
ROUND GOBY	YOY	55	3	.	.
ROUND GOBY	YOY	48	2	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	54	2	.	.
ROUND GOBY	YOY	50	2	.	.

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 09SEP13:15:31 END DATE AND TIME: 09SEP13:16:03

GIZZARD SHAD	.	285	220	.	.
GIZZARD SHAD	.	232	110	.	.
GIZZARD SHAD	.	273	200	.	.
GIZZARD SHAD	.	210	80	.	.
GIZZARD SHAD	.	217	102	.	.
GIZZARD SHAD	.	187	60	.	.
GIZZARD SHAD	.	148	30	.	.
GIZZARD SHAD	.	148	32	.	.
GIZZARD SHAD	.	139	30	.	.
GIZZARD SHAD	.	175	52	.	.
GIZZARD SHAD	.	145	27	.	.
GOLDFISH	.	280	350	.	.
COMMON CARP	.	452	1140	.	.
BLUNTNOSE MINNOW	.	.	.	7	17
YELLOW BULLHEAD	.	172	72	.	.
PUMPKINSEED	.	124	40	.	.
PUMPKINSEED	.	98	18	.	.
PUMPKINSEED	.	107	31	.	.
ORANGESPOTTED SUNFISH	YOY	59	4	.	.
BLUEGILL	YOY	81	10	.	.
BLUEGILL	.	92	16	.	.
BLUEGILL	.	93	15	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	40	1	.	.
LARGEMOUTH BASS	.	140	35	.	.

SITE: SHIP CANAL LOCATION: 307 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 09SEP13:16:32 END DATE AND TIME: 09SEP13:17:06

GIZZARD SHAD	.	262	210	.	.
GIZZARD SHAD	.	228	125	.	.
GIZZARD SHAD	.	197	67	.	.
GIZZARD SHAD	.	176	50	.	.
GIZZARD SHAD	.	168	49	.	.
GIZZARD SHAD	.	172	46	.	.
GIZZARD SHAD	.	166	51	.	.
GIZZARD SHAD	.	299	285	.	.
GIZZARD SHAD	.	227	125	.	.
GIZZARD SHAD	.	203	80	.	.
GIZZARD SHAD	.	188	66	.	.
GIZZARD SHAD	.	183	65	.	.
GIZZARD SHAD	.	145	37	.	.
GIZZARD SHAD	.	305	260	.	.
GIZZARD SHAD	.	246	155	.	.
GIZZARD SHAD	.	189	64	.	.
GIZZARD SHAD	.	150	30	.	.
GIZZARD SHAD	YOY	115	16	.	.
GIZZARD SHAD	.	137	29	.	.
GIZZARD SHAD	.	134	24	.	.
GIZZARD SHAD	.	140	32	.	.
GIZZARD SHAD	.	136	26	.	.
GIZZARD SHAD	.	121	21	.	.
GIZZARD SHAD	.	136	27	.	.
GIZZARD SHAD	.	125	22	.	.
GIZZARD SHAD	.	128	22	.	.
GIZZARD SHAD	.	142	31	.	.
GIZZARD SHAD	.	131	26	.	.
GIZZARD SHAD	.	126	21	.	.
BLUNTNORSE MINNOW	.	.	.	2	4
YELLOW BULLHEAD	.	192	110	.	.
GREEN SUNFISH	.	62	6	.	.
GREEN SUNFISH	.	105	22	.	.
GREEN SUNFISH	.	58	5	.	.
PUMPKINSEED	.	127	43	.	.
PUMPKINSEED	.	107	23	.	.
PUMPKINSEED	.	90	14	.	.
ORANGESPOTTED SUNFISH	.	66	5	.	.
BLUEGILL	.	110	29	.	.
BLUEGILL	.	95	16	.	.
BLUEGILL	.	91	15	.	.
BLUEGILL	.	115	35	.	.
BLUEGILL	YOY	33	1	.	.
Lepomis HYBRID	YOY	.	.	1	1
LARGEMOUTH BASS	.	385	960	.	.
LARGEMOUTH BASS	.	303	470	.	.
LARGEMOUTH BASS	.	168	75	.	.
ROUND GOBY	.	70	5	.	.
ROUND GOBY	YOY	36	1	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	48	2	.	.
ROUND GOBY	YOY	46	1	.	.

SITE: SHIP CANAL LOCATION: 309 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 09SEP13:17:30 END DATE AND TIME: 09SEP13:17:59

GIZZARD SHAD	.	342	405	.	.
GIZZARD SHAD	.	301	260	.	.
GIZZARD SHAD	YOY	118	17	.	.
GIZZARD SHAD	YOY	119	17	.	.
GIZZARD SHAD	YOY	110	16	.	.
GIZZARD SHAD	YOY	115	17	.	.
GIZZARD SHAD	YOY	66	3	.	.
GIZZARD SHAD	YOY	53	2	.	.
GIZZARD SHAD	YOY	55	2	.	.
GIZZARD SHAD	YOY	52	2	.	.
COMMON CARP	.	482	1550	.	.
COMMON CARP	.	448	1290	.	.
BLUNTNORSE MINNOW	.	.	.	1	2
BLUNTNORSE MINNOW	.	.	.	1	4
BLUEGILL	YOY	44	2	.	.
BLUEGILL	YOY	53	3	.	.
LARGEMOUTH BASS	YOY	100	10	.	.
LARGEMOUTH BASS	YOY	102	12	.	.

SITE: DESPLAINES LOCATION: 402 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 24SEP13:13:04 END DATE AND TIME: 24SEP13:13:41

GIZZARD SHAD	.	234	125	.	.
GIZZARD SHAD	.	272	200	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	217	88	.	.
GIZZARD SHAD	.	236	130	.	.
GIZZARD SHAD	.	277	185	.	.
GIZZARD SHAD	.	225	110	.	.
GIZZARD SHAD	YOY	58	2	.	.
GIZZARD SHAD	YOY	74	4	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	62	3	.	.
GIZZARD SHAD	YOY	60	2	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	63	3	.	.
GIZZARD SHAD	YOY	69	3	.	.
GIZZARD SHAD	YOY	62	2	.	.
GIZZARD SHAD	YOY	66	3	.	.
GIZZARD SHAD	YOY	62	2	.	.
GIZZARD SHAD	YOY	63	3	.	.
GIZZARD SHAD	YOY	70	3	.	.
GIZZARD SHAD	YOY	62	2	.	.
GIZZARD SHAD	YOY	53	2	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	62	3	.	.
GIZZARD SHAD	YOY	56	2	.	.
GIZZARD SHAD	YOY	54	2	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	63	2	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	.	.	2	5
COMMON CARP	.	563	2750	.	.
SPOTFIN SHINER	YOY	.	.	6	3
MIMIC SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	8	14
BLUNTNOSE MINNOW	YOY	.	.	2	1
SMALLMOUTH BUFFALO	.	512	1780	.	.
SMALLMOUTH BUFFALO	.	517	2200	.	.
SHORHEAD REDHORSE	.	240	145	.	.
CHANNEL CATFISH	.	446	800	.	.
CHANNEL CATFISH	.	532	1550	.	.
CHANNEL CATFISH	.	592	2510	.	.
CHANNEL CATFISH	.	438	915	.	.
GREEN SUNFISH	.	118	30	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	86	14	.	.
GREEN SUNFISH	YOY	52	3	.	.
GREEN SUNFISH	YOY	61	5	.	.
PUMPKINSEED	.	85	13	.	.
BLUEGILL	.	113	26	.	.
BLUEGILL	.	83	10	.	.
BLUEGILL	.	87	12	.	.
BLUEGILL	YOY	66	5	.	.
BLUEGILL	YOY	47	2	.	.
SMALLMOUTH BASS	.	267	210	.	.
LARGEMOUTH BASS	.	143	47	.	.
LARGEMOUTH BASS	.	172	80	.	.
FRESHWATER DRUM	.	410	840	.	.
FRESHWATER DRUM	.	464	1350	.	.
FRESHWATER DRUM	.	460	1610	.	.
ROUND GOBY	YOY	71	5	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	52	2	.	.
ROUND GOBY	YOY	52	2	.	.

SITE: DESPLAINES LOCATION: 402A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 24SEP13:14:02 END DATE AND TIME: 24SEP13:14:36

GIZZARD SHAD	.	257	175	.	.
GIZZARD SHAD	.	268	170	.	.
GIZZARD SHAD	.	292	220	.	.
GIZZARD SHAD	.	286	170	.	.
GIZZARD SHAD	.	227	100	.	.
GIZZARD SHAD	.	203	92	.	.
GIZZARD SHAD	.	215	100	.	.
GIZZARD SHAD	.	219	115	.	.
GIZZARD SHAD	.	305	290	.	.
GIZZARD SHAD	.	212	91	.	.
GIZZARD SHAD	.	255	155	.	.
GIZZARD SHAD	.	247	145	.	.
GIZZARD SHAD	.	237	130	.	.
GIZZARD SHAD	.	240	145	.	.
GIZZARD SHAD	.	200	71	.	.
GIZZARD SHAD	.	244	135	.	.
BLUNTNOSE MINNOW	.	.	.	25	34
BLUNTNOSE MINNOW	YOY	.	.	1	1
SMALLMOUTH BUFFALO	.	418	1255	.	.
YELLOW BULLHEAD	.	198	112	.	.
BLUEGILL	.	125	37	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	117	25	.	.
BLUEGILL	.	126	38	.	.
BLUEGILL	.	127	35	.	.
BLUEGILL	.	167	88	.	.
BLUEGILL	.	134	42	.	.
BLUEGILL	.	147	58	.	.
BLUEGILL	.	153	70	.	.
BLUEGILL	YOY	64	5	.	.
BLUEGILL	.	91	14	.	.
BLUEGILL	YOY	63	5	.	.
BLUEGILL	.	108	26	.	.
BLUEGILL	YOY	61	4	.	.
BLUEGILL	.	86	13	.	.
Lepomis HYBRID	.	.	.	1	17
LARGEMOUTH BASS	.	221	110	.	.
LARGEMOUTH BASS	YOY	127	26	.	.
LARGEMOUTH BASS	.	140	31	.	.
LARGEMOUTH BASS	YOY	90	9	.	.
BLACK CRAPPIE	.	212	135	.	.
ROUND GOBY	YOY	56	3	.	.

SITE: DESPLAINES LOCATION: 403 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 24SEP13:15:01 END DATE AND TIME: 24SEP13:15:31

LONGNOSE GAR	.	606	560	.	.
LONGNOSE GAR	.	535	305	.	.
GIZZARD SHAD	.	202	90	.	.
GIZZARD SHAD	.	240	150	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	71	3	.	.
GIZZARD SHAD	YOY	66	3	.	.
GIZZARD SHAD	YOY	69	3	.	.
GIZZARD SHAD	YOY	70	3	.	.
GIZZARD SHAD	YOY	63	2	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	56	2	.	.
GIZZARD SHAD	YOY	68	3	.	.
GIZZARD SHAD	YOY	74	4	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	71	3	.	.
GIZZARD SHAD	YOY	64	2	.	.
GIZZARD SHAD	YOY	71	3	.	.
GIZZARD SHAD	YOY	59	2	.	.
GIZZARD SHAD	YOY	58	2	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	72	3	.	.
GIZZARD SHAD	YOY	65	2	.	.
GIZZARD SHAD	YOY	63	2	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	66	3	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	60	2	.	.
GIZZARD SHAD	YOY	59	2	.	.
GIZZARD SHAD	YOY	62	2	.	.
GIZZARD SHAD	YOY	.	.	100	254
GIZZARD SHAD	YOY	.	.	117	296
COMMON CARP	.	538	2160	.	.
COMMON CARP	.	416	1250	.	.
COMMON CARP	.	458	1440	.	.
COMMON CARP	.	580	2810	.	.
COMMON CARP	.	378	820	.	.
SPOTFIN SHINER	.	.	.	1	1
YELLOW BULLHEAD	.	172	71	.	.
CHANNEL CATFISH	.	585	2430	.	.
CHANNEL CATFISH	.	498	1305	.	.
CHANNEL CATFISH	.	572	2140	.	.
CHANNEL CATFISH	.	554	1450	.	.
CHANNEL CATFISH	.	450	1080	.	.
CHANNEL CATFISH	.	417	840	.	.
CHANNEL CATFISH	.	453	1020	.	.
CHANNEL CATFISH	.	467	920	.	.
CHANNEL CATFISH	.	410	670	.	.
WESTERN MOSQUITOFISH	.	.	.	1	1
GREEN SUNFISH	.	140	50	.	.
GREEN SUNFISH	.	137	70	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	78	10	.	.
GREEN SUNFISH	.	98	18	.	.
GREEN SUNFISH	.	79	12	.	.
BLUEGILL	.	105	21	.	.
BLUEGILL	.	107	26	.	.
BLUEGILL	.	108	21	.	.
BLUEGILL	.	103	19	.	.
BLUEGILL	.	137	52	.	.
BLUEGILL	.	117	28	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	.	123	37	.	.
BLUEGILL	.	106	20	.	.
BLUEGILL	.	130	47	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	.	147	66	.	.
BLUEGILL	.	134	48	.	.
BLUEGILL	.	164	89	.	.
BLUEGILL	.	103	22	.	.
BLUEGILL	YOY	50	2	.	.
BLUEGILL	.	93	15	.	.
BLUEGILL	.	84	11	.	.
BLUEGILL	.	79	10	.	.
BLUEGILL	.	73	7	.	.
BLUEGILL	.	114	32	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	114	28	.	.
BLUEGILL	.	105	23	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	.	106	24	.	.
BLUEGILL	.	111	30	.	.
Lepomis HYBRID	.	.	.	1	25
Lepomis HYBRID	.	.	.	6	295
Lepomis HYBRID	.	.	.	3	110
Lepomis HYBRID	.	.	.	1	20
LARGEMOUTH BASS	YOY	100	15	.	.

SITE: DESPLAINES LOCATION: 403A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 24SEP13:16:19 END DATE AND TIME: 24SEP13:16:50

GIZZARD SHAD	.	212	75	.	.
GOLDFISH	.	235	275	.	.
BLUNTNose MINNOW	.	.	.	21	31
CHANNEL CATFISH	.	588	2300	.	.
GREEN SUNFISH	.	127	38	.	.
GREEN SUNFISH	.	103	23	.	.
GREEN SUNFISH	YOY	61	4	.	.
GREEN SUNFISH	YOY	54	3	.	.
PUMPKINSEED	.	118	37	.	.
BLUEGILL	.	133	41	.	.
BLUEGILL	.	112	25	.	.
BLUEGILL	.	106	20	.	.
BLUEGILL	.	103	19	.	.
BLUEGILL	.	133	42	.	.
BLUEGILL	.	104	20	.	.
BLUEGILL	YOY	51	3	.	.
BLUEGILL	.	102	26	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	.	88	13	.	.
BLUEGILL	.	98	20	.	.
BLUEGILL	.	72	7	.	.
BLUEGILL	.	96	19	.	.
BLUEGILL	.	106	25	.	.
BLUEGILL	YOY	55	4	.	.
BLUEGILL	YOY	50	2	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	YOY	51	2	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	44	2	.	.
BLUEGILL	.	76	8	.	.
BLUEGILL	.	95	17	.	.
BLUEGILL	YOY	52	3	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	YOY	51	3	.	.
BLUEGILL	.	97	19	.	.
BLUEGILL	YOY	.	.	2	7
BLUEGILL	.	.	.	17	182
Lepomis HYBRID	.	.	.	1	38
Lepomis HYBRID	.	.	.	1	20
SMALLMOUTH BASS	YOY	95	10	.	.
LARGEMOUTH BASS	.	228	150	.	.
LARGEMOUTH BASS	.	142	37	.	.
LARGEMOUTH BASS	YOY	117	18	.	.
LARGEMOUTH BASS	YOY	116	17	.	.
LARGEMOUTH BASS	.	288	275	.	.
LARGEMOUTH BASS	YOY	117	18	.	.
LARGEMOUTH BASS	YOY	95	12	.	.
LARGEMOUTH BASS	YOY	94	12	.	.
BLACKSIDE DARTER	.	.	.	1	2

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

SITE: DESPLAINES	LOCATION: 404A	GEAR: ELECTRO	MESOHABITAT: MAIN CHANNEL BORDER		
START DATE AND TIME: 24SEP13:17:18		END DATE AND TIME: 24SEP13:17:45			
GIZZARD SHAD	.	350	410	.	.
THREADFIN SHAD	YOY	63	3	.	.
SPOTFIN SHINER	.	.	.	1	2
BLUNTNOSE MINNOW	.	.	.	2	5
CHANNEL CATFISH	.	407	545	.	.
GREEN SUNFISH	.	103	24	.	.
GREEN SUNFISH	.	97	21	.	.
GREEN SUNFISH	.	129	46	.	.
GREEN SUNFISH	.	123	48	.	.
GREEN SUNFISH	.	126	40	.	.
GREEN SUNFISH	.	90	17	.	.
GREEN SUNFISH	.	114	33	.	.
GREEN SUNFISH	.	105	26	.	.
GREEN SUNFISH	.	107	30	.	.
GREEN SUNFISH	.	100	23	.	.
GREEN SUNFISH	.	79	11	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	87	14	.	.
GREEN SUNFISH	YOY	65	6	.	.
GREEN SUNFISH	YOY	68	7	.	.
BLUEGILL	.	162	88	.	.
BLUEGILL	.	170	85	.	.
BLUEGILL	.	123	32	.	.
BLUEGILL	.	121	35	.	.
BLUEGILL	.	108	26	.	.
BLUEGILL	YOY	55	4	.	.
BLUEGILL	YOY	67	6	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	.	105	24	.	.
BLUEGILL	.	105	24	.	.
Lepomis HYBRID	.	.	.	1	28
LARGEMOUTH BASS	.	213	140	.	.
LARGEMOUTH BASS	YOY	90	8	.	.
LARGEMOUTH BASS	YOY	100	14	.	.
LARGEMOUTH BASS	YOY	102	13	.	.
SITE: DESPLAINES	LOCATION: 405	GEAR: ELECTRO	MESOHABITAT:		
START DATE AND TIME: 25SEP13:08:44		END DATE AND TIME: 25SEP13:09:25			
THREADFIN SHAD	YOY	81	5	.	.
THREADFIN SHAD	YOY	71	4	.	.
THREADFIN SHAD	YOY	79	5	.	.
COMMON CARP	.	443	1160	.	.
COMMON CARP	.	488	1420	.	.
COMMON CARP	.	503	1760	.	.
COMMON CARP	.	455	1200	.	.
EMERALD SHINER	.	.	.	1	3
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	51	76
BLUNTNOSE MINNOW	YOY	.	.	1	1
BLUNTNOSE MINNOW	YOY	.	.	2	1
BROOK SILVERSIDE	.	.	.	2	3
GREEN SUNFISH	.	137	55	.	.
GREEN SUNFISH	.	110	24	.	.
GREEN SUNFISH	.	144	66	.	.
GREEN SUNFISH	.	122	47	.	.
GREEN SUNFISH	.	97	19	.	.
GREEN SUNFISH	YOY	65	6	.	.
GREEN SUNFISH	YOY	42	2	.	.
GREEN SUNFISH	.	97	20	.	.
GREEN SUNFISH	.	101	23	.	.
GREEN SUNFISH	YOY	49	3	.	.
GREEN SUNFISH	YOY	64	5	.	.
GREEN SUNFISH	.	85	14	.	.
GREEN SUNFISH	YOY	69	7	.	.
GREEN SUNFISH	YOY	57	4	.	.
GREEN SUNFISH	.	118	32	.	.
GREEN SUNFISH	YOY	64	6	.	.
GREEN SUNFISH	.	80	10	.	.
GREEN SUNFISH	YOY	65	5	.	.
GREEN SUNFISH	.	74	9	.	.
GREEN SUNFISH	YOY	42	2	.	.
GREEN SUNFISH	YOY	65	5	.	.
GREEN SUNFISH	.	83	11	.	.
GREEN SUNFISH	.	104	28	.	.
GREEN SUNFISH	YOY	65	7	.	.
GREEN SUNFISH	YOY	70	6	.	.
GREEN SUNFISH	.	85	15	.	.
GREEN SUNFISH	YOY	51	3	.	.
GREEN SUNFISH	YOY	60	5	.	.
GREEN SUNFISH	YOY	61	5	.	.
GREEN SUNFISH	YOY	47	2	.	.
GREEN SUNFISH	.	102	22	.	.
GREEN SUNFISH	.	.	.	4	39

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	.	.	.	3	37
PUMPKINSEED	.	142	48	.	.
PUMPKINSEED	.	137	51	.	.
PUMPKINSEED	YOY	48	2	.	.
PUMPKINSEED	.	126	40	.	.
BLUEGILL	.	136	52	.	.
BLUEGILL	.	126	43	.	.
BLUEGILL	.	117	23	.	.
BLUEGILL	.	123	33	.	.
BLUEGILL	.	141	61	.	.
BLUEGILL	.	128	40	.	.
BLUEGILL	.	112	27	.	.
BLUEGILL	.	103	22	.	.
BLUEGILL	.	120	32	.	.
BLUEGILL	.	117	30	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	.	109	27	.	.
BLUEGILL	.	105	24	.	.
BLUEGILL	.	117	33	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	54	3	.	.
BLUEGILL	YOY	50	3	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	42	1	.	.
BLUEGILL	.	106	27	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	44	2	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	60	4	.	.
BLUEGILL	.	80	10	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	.	.	4	18
BLUEGILL	YOY	.	.	11	18
NORTHERN SUNFISH	.	91	17	.	.
NORTHERN SUNFISH	.	78	11	.	.
NORTHERN SUNFISH	YOY	42	2	.	.
NORTHERN SUNFISH	YOY	45	2	.	.
NORTHERN SUNFISH	YOY	41	2	.	.
NORTHERN SUNFISH	YOY	37	1	.	.
NORTHERN SUNFISH	YOY	44	2	.	.
NORTHERN SUNFISH	YOY	44	2	.	.
NORTHERN SUNFISH	YOY	43	2	.	.
NORTHERN SUNFISH	YOY	35	1	.	.
NORTHERN SUNFISH	YOY	43	2	.	.
NORTHERN SUNFISH	YOY	46	2	.	.
NORTHERN SUNFISH	YOY	38	1	.	.
NORTHERN SUNFISH	YOY	51	3	.	.
NORTHERN SUNFISH	YOY	48	3	.	.
NORTHERN SUNFISH	YOY	50	3	.	.
Lepomis HYBRID	.	.	.	1	65
Lepomis HYBRID	.	.	.	1	28
Lepomis HYBRID	.	.	.	1	56
Lepomis HYBRID	.	.	.	1	59
Lepomis HYBRID	YOY	.	.	1	2
LARGEMOUTH BASS	.	290	335	.	.
LARGEMOUTH BASS	.	187	85	.	.
LARGEMOUTH BASS	.	175	70	.	.
LARGEMOUTH BASS	YOY	120	20	.	.
LARGEMOUTH BASS	YOY	88	8	.	.
LARGEMOUTH BASS	YOY	89	10	.	.
LARGEMOUTH BASS	YOY	112	19	.	.
LARGEMOUTH BASS	YOY	86	8	.	.
LARGEMOUTH BASS	YOY	103	15	.	.
LARGEMOUTH BASS	YOY	90	9	.	.
LARGEMOUTH BASS	YOY	87	10	.	.
LARGEMOUTH BASS	YOY	105	15	.	.
LARGEMOUTH BASS	YOY	81	8	.	.

SITE: DESPLAINES LOCATION: 408 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 25SEP13:10:00 END DATE AND TIME: 25SEP13:10:36

GIZZARD SHAD	.	233	120	.	.
GIZZARD SHAD	.	132	24	.	.
GIZZARD SHAD	.	141	30	.	.
GIZZARD SHAD	.	196	65	.	.
GIZZARD SHAD	.	141	29	.	.
GIZZARD SHAD	.	153	37	.	.
GIZZARD SHAD	.	137	27	.	.
GIZZARD SHAD	YOY	126	21	.	.
GIZZARD SHAD	YOY	127	24	.	.
GIZZARD SHAD	.	248	130	.	.
GIZZARD SHAD	.	138	29	.	.
GIZZARD SHAD	.	140	27	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	.	138	27	.	.
GIZZARD SHAD	.	144	31	.	.
GIZZARD SHAD	.	143	32	.	.
GIZZARD SHAD	YOY	111	16	.	.
GIZZARD SHAD	YOY	126	22	.	.
GIZZARD SHAD	YOY	126	25	.	.
GIZZARD SHAD	YOY	120	21	.	.
GIZZARD SHAD	YOY	121	18	.	.
GIZZARD SHAD	YOY	126	20	.	.
COMMON CARP	.	423	1040	.	.
BLUNTNOSE MINNOW	.	.	.	22	42
GREEN SUNFISH	.	142	66	.	.
GREEN SUNFISH	YOY	61	6	.	.
GREEN SUNFISH	.	73	9	.	.
GREEN SUNFISH	YOY	69	7	.	.
GREEN SUNFISH	.	103	25	.	.
PUMPKINSEED	.	102	25	.	.
PUMPKINSEED	YOY	66	6	.	.
PUMPKINSEED	YOY	39	1	.	.
ORANGESPOTTED SUNFISH	.	71	8	.	.
ORANGESPOTTED SUNFISH	YOY	49	2	.	.
ORANGESPOTTED SUNFISH	YOY	36	1	.	.
BLUEGILL	.	112	25	.	.
BLUEGILL	.	116	30	.	.
BLUEGILL	.	103	19	.	.
BLUEGILL	.	110	23	.	.
BLUEGILL	YOY	51	3	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	94	17	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	.	100	21	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	61	4	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	58	4	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	65	5	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	63	4	.	.
BLUEGILL	YOY	66	5	.	.
BLUEGILL	.	85	13	.	.
BLUEGILL	YOY	56	4	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	.	97	21	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	YOY	.	.	1	5
BLUEGILL	YOY	.	.	33	61
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	28	1	.	.
NORTHERN SUNFISH	YOY	44	2	.	.
NORTHERN SUNFISH	YOY	32	1	.	.
Lepomis HYBRID	.	.	.	1	51
Lepomis HYBRID	.	.	.	1	32
Lepomis HYBRID	.	.	.	1	14
Lepomis HYBRID	.	.	.	1	10
LARGEMOUTH BASS	YOY	112	17	.	.
LARGEMOUTH BASS	.	138	33	.	.
LARGEMOUTH BASS	YOY	87	8	.	.
BLACKSIDE DARTER	.	.	.	1	2

SITE: DESPLAINES LOCATION: 412A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 25SEP13:11:13 END DATE AND TIME: 25SEP13:11:45

GIZZARD SHAD	.	133	24	.	.
GIZZARD SHAD	YOY	125	20	.	.
GIZZARD SHAD	.	143	32	.	.
GIZZARD SHAD	YOY	127	19	.	.
GIZZARD SHAD	YOY	109	14	.	.
GIZZARD SHAD	YOY	116	16	.	.
GIZZARD SHAD	YOY	116	16	.	.
GIZZARD SHAD	YOY	116	17	.	.
THREADFIN SHAD	YOY	76	4	.	.
THREADFIN SHAD	YOY	53	2	.	.
THREADFIN SHAD	YOY	62	2	.	.
THREADFIN SHAD	YOY	64	2	.	.
SPOTTAIL SHINER	.	.	.	1	4
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	60	93
BLUNTNOSE MINNOW	YOY	.	.	5	2
BLACKSTRIPE TOPMINNOW	.	.	.	1	1

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GREEN SUNFISH	YOY	69	9	.	.
GREEN SUNFISH	YOY	66	6	.	.
GREEN SUNFISH	.	95	17	.	.
PUMPKINSEED	YOY	63	5	.	.
PUMPKINSEED	YOY	56	4	.	.
PUMPKINSEED	YOY	62	5	.	.
PUMPKINSEED	YOY	73	8	.	.
BLUEGILL	.	143	62	.	.
BLUEGILL	.	112	25	.	.
BLUEGILL	.	118	37	.	.
BLUEGILL	.	136	44	.	.
BLUEGILL	.	117	32	.	.
BLUEGILL	.	115	28	.	.
BLUEGILL	.	117	27	.	.
BLUEGILL	.	98	16	.	.
BLUEGILL	.	149	66	.	.
BLUEGILL	.	115	27	.	.
BLUEGILL	.	93	14	.	.
BLUEGILL	.	85	12	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	65	5	.	.
BLUEGILL	.	79	9	.	.
BLUEGILL	YOY	67	6	.	.
BLUEGILL	YOY	42	1	.	.
BLUEGILL	YOY	45	2	.	.
BLUEGILL	YOY	44	2	.	.
BLUEGILL	YOY	68	6	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	42	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	46	2	.	.
BLUEGILL	YOY	.	.	17	84
BLUEGILL	YOY	.	.	45	66
NORTHERN SUNFISH	.	99	20	.	.
NORTHERN SUNFISH	YOY	43	2	.	.
NORTHERN SUNFISH	.	93	18	.	.
NORTHERN SUNFISH	.	78	11	.	.
Lepomis HYBRID	.	.	.	1	34
LARGEMOUTH BASS	YOY	95	8	.	.
LARGEMOUTH BASS	.	143	32	.	.
LARGEMOUTH BASS	YOY	92	9	.	.
LARGEMOUTH BASS	.	186	75	.	.
LARGEMOUTH BASS	YOY	102	12	.	.
LARGEMOUTH BASS	YOY	97	10	.	.
LARGEMOUTH BASS	.	181	75	.	.
LARGEMOUTH BASS	YOY	90	9	.	.
LARGEMOUTH BASS	YOY	86	9	.	.
LARGEMOUTH BASS	YOY	95	10	.	.
LARGEMOUTH BASS	YOY	83	8	.	.

SITE: DESPLAINES LOCATION: 414 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 25SEP13:12:24 END DATE AND TIME: 25SEP13:13:07

GIZZARD SHAD	.	341	340	.	.
GIZZARD SHAD	.	207	75	.	.
GIZZARD SHAD	.	330	360	.	.
GIZZARD SHAD	.	318	350	.	.
GIZZARD SHAD	.	262	155	.	.
GIZZARD SHAD	.	265	150	.	.
GIZZARD SHAD	.	273	185	.	.
GIZZARD SHAD	.	277	180	.	.
GIZZARD SHAD	.	288	195	.	.
GIZZARD SHAD	.	260	170	.	.
GIZZARD SHAD	.	315	270	.	.
GIZZARD SHAD	.	211	90	.	.
GIZZARD SHAD	.	277	210	.	.
GIZZARD SHAD	.	303	255	.	.
GIZZARD SHAD	.	204	75	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	60	2	.	.
GIZZARD SHAD	YOY	76	4	.	.
GIZZARD SHAD	YOY	82	6	.	.
GIZZARD SHAD	YOY	72	4	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	76	5	.	.
GIZZARD SHAD	YOY	70	4	.	.
GIZZARD SHAD	YOY	68	3	.	.
GIZZARD SHAD	YOY	62	2	.	.
GIZZARD SHAD	YOY	77	5	.	.
GIZZARD SHAD	YOY	58	2	.	.
GIZZARD SHAD	YOY	54	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	47	1	.	.
GIZZARD SHAD	YOY	.	.	2	4
GIZZARD SHAD	YOY	.	.	1	13
THREADFIN SHAD	YOY	66	3	.	.
THREADFIN SHAD	YOY	76	4	.	.
THREADFIN SHAD	YOY	68	3	.	.
THREADFIN SHAD	YOY	80	5	.	.
THREADFIN SHAD	YOY	56	2	.	.
THREADFIN SHAD	YOY	61	3	.	.
THREADFIN SHAD	YOY	71	3	.	.
THREADFIN SHAD	YOY	69	3	.	.
THREADFIN SHAD	YOY	70	3	.	.
THREADFIN SHAD	YOY	65	3	.	.
THREADFIN SHAD	YOY	78	5	.	.
THREADFIN SHAD	YOY	64	3	.	.
THREADFIN SHAD	YOY	81	5	.	.
THREADFIN SHAD	YOY	70	3	.	.
THREADFIN SHAD	YOY	69	3	.	.
THREADFIN SHAD	YOY	73	4	.	.
THREADFIN SHAD	YOY	68	3	.	.
THREADFIN SHAD	YOY	67	3	.	.
COMMON CARP	.	577	3100	.	.
COMMON CARP	.	588	2750	.	.
SPOTTAIL SHINER	.	.	.	2	6
RIVER CARPSUCKER	.	487	1280	.	.
RIVER CARPSUCKER	.	460	1230	.	.
YELLOW BULLHEAD	.	185	90	.	.
CHANNEL CATFISH	.	540	1490	.	.
GREEN SUNFISH	.	136	53	.	.
GREEN SUNFISH	.	96	20	.	.
PUMPKINSEED	.	103	21	.	.
PUMPKINSEED	.	127	52	.	.
PUMPKINSEED	YOY	42	2	.	.
ORANGESPOTTED SUNFISH	YOY	44	1	.	.
ORANGESPOTTED SUNFISH	YOY	34	1	.	.
ORANGESPOTTED SUNFISH	YOY	41	1	.	.
ORANGESPOTTED SUNFISH	.	55	3	.	.
ORANGESPOTTED SUNFISH	.	84	10	.	.
ORANGESPOTTED SUNFISH	.	71	6	.	.
ORANGESPOTTED SUNFISH	.	67	6	.	.
ORANGESPOTTED SUNFISH	.	60	4	.	.
ORANGESPOTTED SUNFISH	.	75	8	.	.
ORANGESPOTTED SUNFISH	.	70	7	.	.
ORANGESPOTTED SUNFISH	.	70	7	.	.
ORANGESPOTTED SUNFISH	.	58	4	.	.
ORANGESPOTTED SUNFISH	.	61	4	.	.
ORANGESPOTTED SUNFISH	.	74	7	.	.
ORANGESPOTTED SUNFISH	.	68	6	.	.
ORANGESPOTTED SUNFISH	.	68	6	.	.
BLUEGILL	.	152	75	.	.
BLUEGILL	.	147	61	.	.
BLUEGILL	.	132	47	.	.
BLUEGILL	.	117	29	.	.
BLUEGILL	.	119	30	.	.
BLUEGILL	.	110	22	.	.
BLUEGILL	.	128	43	.	.
BLUEGILL	.	110	25	.	.
BLUEGILL	.	130	48	.	.
BLUEGILL	.	113	28	.	.
BLUEGILL	.	107	22	.	.
BLUEGILL	.	132	49	.	.
BLUEGILL	.	98	19	.	.
BLUEGILL	.	142	56	.	.
BLUEGILL	.	.	.	9	345
BLUEGILL	.	98	17	.	.
BLUEGILL	.	132	46	.	.
BLUEGILL	.	153	80	.	.
BLUEGILL	.	131	45	.	.
BLUEGILL	.	142	56	.	.
BLUEGILL	.	110	28	.	.
BLUEGILL	.	123	33	.	.
BLUEGILL	.	115	27	.	.
BLUEGILL	.	100	18	.	.
BLUEGILL	.	102	19	.	.
BLUEGILL	.	.	.	5	250
BLUEGILL	.	.	.	5	160
BLUEGILL	.	.	.	3	120
BLUEGILL	.	130	42	.	.
BLUEGILL	.	.	.	1	15
BLUEGILL	.	.	.	1	47
BLUEGILL	YOY	49	2	.	.
BLUEGILL	YOY	42	1	.	.
BLUEGILL	YOY	41	1	.	.
BLUEGILL	YOY	50	2	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	46	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
BLUEGILL	YOY	.	.	45	69
BLUEGILL	.	.	.	8	82
Lepomis HYBRID	.	.	.	1	25
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	26	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	32	.	.	.
Lepomis sp.	YOY	24	.	.	.
Lepomis sp.	YOY	27	.	.	.
Lepomis sp.	YOY	20	.	.	.
Lepomis sp.	YOY	21	.	.	.
Lepomis sp.	YOY	23	.	.	.
Lepomis sp.	YOY	25	.	.	.
Lepomis sp.	YOY	25	.	.	4
LARGEMOUTH BASS	YOY	93	10	.	.
LARGEMOUTH BASS	YOY	98	10	.	.
LARGEMOUTH BASS	YOY	113	16	.	.
LARGEMOUTH BASS	YOY	123	19	.	.
LARGEMOUTH BASS	YOY	127	28	.	.
LARGEMOUTH BASS	YOY	103	12	.	.
LARGEMOUTH BASS	YOY	101	12	.	.
LARGEMOUTH BASS	YOY	98	11	.	.
LARGEMOUTH BASS	YOY	100	12	.	.
LARGEMOUTH BASS	YOY	122	23	.	.
LARGEMOUTH BASS	YOY	98	10	.	.
LARGEMOUTH BASS	YOY	95	9	.	.
LARGEMOUTH BASS	YOY	98	10	.	.
LARGEMOUTH BASS	YOY	88	8	.	.
LARGEMOUTH BASS	YOY	86	9	.	.

SITE: DESPLAINES LOCATION: 418 GEAR: ELECTRO MESOHABITAT:
 START DATE AND TIME: 25SEP13:14:51 END DATE AND TIME: 25SEP13:15:30

GIZZARD SHAD	.	251	145	.	.
GIZZARD SHAD	.	277	150	.	.
GIZZARD SHAD	.	258	140	.	.
GIZZARD SHAD	.	281	170	.	.
GIZZARD SHAD	YOY	126	18	.	.
GIZZARD SHAD	.	268	170	.	.
GIZZARD SHAD	.	227	80	.	.
GIZZARD SHAD	YOY	125	19	.	.
GIZZARD SHAD	YOY	113	14	.	.
GIZZARD SHAD	YOY	98	9	.	.
GIZZARD SHAD	.	133	22	.	.
THREADFIN SHAD	YOY	87	6	.	.
BLUNTNOST MINNOW	.	.	.	2	3
BLUNTNOST MINNOW	YOY	.	.	1	1
BULLHEAD MINNOW	YOY	.	.	1	1
GREEN SUNFISH	.	118	38	.	.
GREEN SUNFISH	.	89	16	.	.
GREEN SUNFISH	.	84	13	.	.
GREEN SUNFISH	.	91	17	.	.
GREEN SUNFISH	YOY	70	8	.	.
GREEN SUNFISH	.	100	21	.	.
BLUEGILL	.	127	32	.	.
BLUEGILL	.	118	29	.	.
BLUEGILL	.	117	30	.	.
BLUEGILL	.	118	30	.	.
BLUEGILL	.	118	32	.	.
BLUEGILL	.	127	42	.	.
BLUEGILL	.	105	20	.	.
BLUEGILL	.	158	80	.	.
BLUEGILL	.	125	37	.	.
BLUEGILL	.	106	23	.	.
BLUEGILL	.	102	18	.	.
BLUEGILL	YOY	48	2	.	.
BLUEGILL	YOY	37	1	.	.
BLUEGILL	YOY	43	1	.	.
BLUEGILL	.	92	15	.	.
BLUEGILL	.	120	33	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	.	83	9	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	.	97	18	.	.
BLUEGILL	YOY	30	1	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	83	12	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	.	96	17	.	.
BLUEGILL	.	78	9	.	.
BLUEGILL	.	92	14	.	.
Lepomis HYBRID	YOY	.	.	1	2
Lepomis sp.	YOY	25	1	.	.
LARGEMOUTH BASS	YOY	127	25	.	.
FRESHWATER DRUM	.	265	150	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: DESPLAINES LOCATION: 419A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 25SEP13:16:13 END DATE AND TIME: 25SEP13:16:46					
GIZZARD SHAD	.	210	90	.	.
GIZZARD SHAD	.	250	140	.	.
GOLDEN REDHORSE	.	341	410	.	.
BLUEGILL	.	120	37	.	.
BLUEGILL	.	137	46	.	.
LARGEMOUTH BASS	.	227	105	.	.
SITE: DESPLAINES LOCATION: 402 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 24SEP13:09:59 END DATE AND TIME: 24SEP13:10:06					
STRIPED SHINER	.	.	.	1	4
SPOTFIN SHINER	.	.	.	12	15
SPOTFIN SHINER	YOY	.	.	27	17
BLUNTNOSSE MINNOW	.	.	.	5	9
TADPOLE MADTOM	YOY	29	1	.	.
SITE: DESPLAINES LOCATION: 403A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 24SEP13:09:04 END DATE AND TIME: 24SEP13:09:10					
BANDED KILLIFISH	.	.	.	1	1
BANDED KILLIFISH	YOY	.	.	1	1
BLACKSTRIPE TOPMINNOW	.	.	.	1	1
WESTERN MOSQUITOFISH	YOY	.	.	1	1
SITE: DESPLAINES LOCATION: 404A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 24SEP13:08:45 END DATE AND TIME: 24SEP13:08:51					
BLACKSTRIPE TOPMINNOW	.	.	.	1	1
WESTERN MOSQUITOFISH	YOY	.	.	7	1
WESTERN MOSQUITOFISH	.	.	.	3	1
SITE: DESPLAINES LOCATION: 405 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 24SEP13:08:29 END DATE AND TIME: 24SEP13:08:38					
NO FISH	.	.	.	0	.
SITE: DESPLAINES LOCATION: 408 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 24SEP13:08:14 END DATE AND TIME: 24SEP13:08:20					
BLUNTNOSSE MINNOW	.	.	.	1	5
BLACKSTRIPE TOPMINNOW	.	.	.	1	2
BLUEGILL	.	93	16	.	.
BLUEGILL	YOY	54	4	.	.
BLUEGILL	YOY	47	2	.	.
BLUEGILL	YOY	45	2	.	.
NORTHERN SUNFISH	YOY	35	1	.	.
SITE: DESPLAINES LOCATION: 412A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 25SEP13:17:20 END DATE AND TIME: 25SEP13:17:26					
EMERALD SHINER	.	.	.	1	2
BLUNTNOSSE MINNOW	YOY	.	.	2	1
BLUEGILL	.	122	40	.	.
BLUEGILL	YOY	32	1	.	.
SITE: DESPLAINES LOCATION: 414 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 25SEP13:13:50 END DATE AND TIME: 25SEP13:13:57					
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	53	3	.	.
BLUEGILL	YOY	55	3	.	.
BLUEGILL	YOY	59	4	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	26	1	.	.
BLUEGILL	YOY	29	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	32	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	27	1	.	.
BLUEGILL	YOY	23	1	.	.
BLUEGILL	YOY	26	1	.	.
LARGEMOUTH BASS	YOY	90	10	.	.
LARGEMOUTH BASS	YOY	94	12	.	.
SITE: DESPLAINES LOCATION: 418 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 25SEP13:14:20 END DATE AND TIME: 25SEP13:14:30					
BLUNTNOSSE MINNOW	.	.	.	1	1
GREEN SUNFISH	.	107	28	.	.
PUMPKINSEED	YOY	78	10	.	.
BLUEGILL	.	83	11	.	.
BLUEGILL	.	123	35	.	.
BLUEGILL	YOY	35	1	.	.
BLUEGILL	YOY	35	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
-----	-----	-----	-----	-----	-----
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	33	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	34	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	29	1	.	.
BLUEGILL	YOY	36	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	31	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	29	1	.	.
BLUEGILL	YOY	25	1	.	.
BLUEGILL	YOY	28	1	.	.
BLUEGILL	YOY	27	1	.	.
BLUEGILL	YOY	26	1	.	.
BLUEGILL	YOY	25	1	.	.
Lepomis sp.	YOY	22	1	.	.
LARGEMOUTH BASS	YOY	80	7	.	.
SITE: DESPLAINES LOCATION: 419A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 25SEP13:17:06 END DATE AND TIME: 25SEP13:17:12					
NO FISH	.	.	.	0	.
SITE: SHIP CANAL LOCATION: 302A GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 23SEP13:10:22 END DATE AND TIME: 23SEP13:10:30					
NO FISH	.	.	.	0	.
SITE: SHIP CANAL LOCATION: 304 GEAR: SEINE MESOHABITAT: .					
START DATE AND TIME: 23SEP13:13:18 END DATE AND TIME: 23SEP13:13:26					
SPOTFIN SHINER	YOY	.	.	2	1
BLUNTNOSSE MINNOW	.	.	.	24	15
BLUNTNOSSE MINNOW	YOY	.	.	3	1
TADPOLE MADTOM	YOY	33	1	.	.
BANDED KILLIFISH	YOY	.	.	2	1
BANDED KILLIFISH	.	.	.	1	5
BLACKSTRIPE TOPMINNOW	YOY	.	.	7	2
BLACKSTRIPE TOPMINNOW	.	.	.	11	12
ROUND GOBY	.	75	7	.	.
ROUND GOBY	YOY	60	3	.	.
SITE: SHIP CANAL LOCATION: 305 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 23SEP13:13:06 END DATE AND TIME: 23SEP13:13:11					
BANDED KILLIFISH	.	.	.	1	1
WESTERN MOSQUITOFISH	YOY	.	.	1	1
ROUND GOBY	YOY	46	1	.	.
ROUND GOBY	YOY	56	3	.	.
ROUND GOBY	YOY	38	1	.	.
ROUND GOBY	YOY	36	1	.	.
ROUND GOBY	YOY	35	1	.	.
ROUND GOBY	YOY	32	1	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	40	1	.	.
ROUND GOBY	YOY	33	1	.	.
ROUND GOBY	YOY	37	1	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	YOY	39	1	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	46	1	.	.
ROUND GOBY	YOY	45	2	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	37	1	.	.
SITE: SHIP CANAL LOCATION: 306 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 23SEP13:12:53 END DATE AND TIME: 23SEP13:13:00					
BLUNTNOSSE MINNOW	.	.	.	3	5
BLUNTNOSSE MINNOW	YOY	.	.	4	2
ROUND GOBY	YOY	39	1	.	.
SITE: SHIP CANAL LOCATION: 307 GEAR: SEINE MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 23SEP13:12:40 END DATE AND TIME: 23SEP13:12:46					
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSSE MINNOW	.	.	.	1	3
BLUNTNOSSE MINNOW	YOY	.	.	9	3
BLUNTNOSSE MINNOW	.	.	.	48	65
ROUND GOBY	YOY	32	1	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
ROUND GOBY	YOY	57	3	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	YOY	51	2	.	.
ROUND GOBY	YOY	46	1	.	.
ROUND GOBY	YOY	37	1	.	.
ROUND GOBY	YOY	47	2	.	.
ROUND GOBY	YOY	43	1	.	.
ROUND GOBY	YOY	48	2	.	.
ROUND GOBY	YOY	49	2	.	.
ROUND GOBY	YOY	42	1	.	.

SITE: SHIP CANAL LOCATION: 301 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 23SEP13:07:49 END DATE AND TIME: 23SEP13:08:20

GIZZARD SHAD	.	174	48	.	.
GIZZARD SHAD	.	121	15	.	.
GIZZARD SHAD	.	121	18	.	.
GIZZARD SHAD	YOY	106	11	.	.
GIZZARD SHAD	.	179	47	.	.
GIZZARD SHAD	.	158	33	.	.
GIZZARD SHAD	.	162	38	.	.
GIZZARD SHAD	.	190	58	.	.
THREADFIN SHAD	YOY	98	9	.	.
THREADFIN SHAD	YOY	106	10	.	.
LARGEMOUTH BASS	YOY	103	13	.	.
LARGEMOUTH BASS	.	151	45	.	.

SITE: SHIP CANAL LOCATION: 302 GEAR: ELECTRO MESOHABITAT: .
 START DATE AND TIME: 23SEP13:08:34 END DATE AND TIME: 23SEP13:09:03

GIZZARD SHAD	.	170	40	.	.
GIZZARD SHAD	YOY	117	15	.	.
GIZZARD SHAD	.	139	22	.	.
GIZZARD SHAD	.	128	19	.	.
THREADFIN SHAD	YOY	92	8	.	.
THREADFIN SHAD	YOY	81	5	.	.
THREADFIN SHAD	YOY	91	6	.	.
THREADFIN SHAD	YOY	86	6	.	.
THREADFIN SHAD	YOY	91	7	.	.
THREADFIN SHAD	YOY	101	9	.	.
THREADFIN SHAD	YOY	105	11	.	.
THREADFIN SHAD	YOY	91	6	.	.
THREADFIN SHAD	YOY	92	7	.	.
THREADFIN SHAD	YOY	91	6	.	.
EMERALD SHINER	.	.	.	1	5
LARGEMOUTH BASS	.	150	46	.	.
LARGEMOUTH BASS	.	181	70	.	.
LARGEMOUTH BASS	.	134	32	.	.

SITE: SHIP CANAL LOCATION: 302A GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 23SEP13:10:47 END DATE AND TIME: 23SEP13:11:21

BLUNTNOSE MINNOW	.	.	.	3	2
ORIENTAL WEATHERFISH	YOY	73	2	.	.
ORIENTAL WEATHERFISH	YOY	82	4	.	.
ORIENTAL WEATHERFISH	.	111	9	.	.
ORIENTAL WEATHERFISH	YOY	60	1	.	.
ORIENTAL WEATHERFISH	.	122	11	.	.
ORIENTAL WEATHERFISH	YOY	96	6	.	.
ORIENTAL WEATHERFISH	.	121	11	.	.
BANDED KILLIFISH	.	.	.	1	3
GREEN SUNFISH	.	107	20	.	.
GREEN SUNFISH	YOY	39	1	.	.
GREEN SUNFISH	.	72	9	.	.
PUMPKINSEED	.	126	39	.	.
PUMPKINSEED	.	114	32	.	.
PUMPKINSEED	.	120	29	.	.
PUMPKINSEED	.	107	22	.	.
PUMPKINSEED	.	117	31	.	.
PUMPKINSEED	.	128	42	.	.
PUMPKINSEED	.	112	38	.	.
PUMPKINSEED	.	136	51	.	.
PUMPKINSEED	.	112	28	.	.
PUMPKINSEED	YOY	52	3	.	.
PUMPKINSEED	YOY	49	2	.	.
PUMPKINSEED	.	100	21	.	.
PUMPKINSEED	.	116	35	.	.
PUMPKINSEED	.	103	24	.	.
BLUEGILL	.	116	27	.	.
BLUEGILL	.	117	38	.	.
BLUEGILL	.	101	19	.	.
BLUEGILL	YOY	40	1	.	.
BLUEGILL	.	100	20	.	.
LARGEMOUTH BASS	.	167	60	.	.
LARGEMOUTH BASS	YOY	107	16	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
SITE: SHIP CANAL LOCATION: 302B GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER					
START DATE AND TIME: 23SEP13:09:31 END DATE AND TIME: 23SEP13:10:09					
GIZZARD SHAD	.	180	52	.	.
GIZZARD SHAD	.	217	115	.	.
GIZZARD SHAD	.	175	46	.	.
GIZZARD SHAD	.	188	58	.	.
GIZZARD SHAD	.	176	51	.	.
GIZZARD SHAD	.	167	48	.	.
GIZZARD SHAD	.	208	91	.	.
GIZZARD SHAD	.	171	51	.	.
GIZZARD SHAD	.	148	35	.	.
BLUNTNOSE MINNOW	.	.	.	12	21
ORIENTAL WEATHERFISH	.	114	9	.	.
YELLOW BULLHEAD	.	227	145	.	.
GREEN SUNFISH	YOY	43	2	.	.
GREEN SUNFISH	YOY	51	3	.	.
GREEN SUNFISH	YOY	42	2	.	.
GREEN SUNFISH	.	85	14	.	.
GREEN SUNFISH	.	77	10	.	.
GREEN SUNFISH	.	90	19	.	.
GREEN SUNFISH	.	80	11	.	.
GREEN SUNFISH	.	74	8	.	.
GREEN SUNFISH	.	98	21	.	.
GREEN SUNFISH	.	84	12	.	.
GREEN SUNFISH	.	92	16	.	.
GREEN SUNFISH	.	80	10	.	.
GREEN SUNFISH	.	68	7	.	.
GREEN SUNFISH	.	81	10	.	.
GREEN SUNFISH	.	105	26	.	.
GREEN SUNFISH	.	104	21	.	.
GREEN SUNFISH	.	83	13	.	.
GREEN SUNFISH	.	92	19	.	.
GREEN SUNFISH	.	77	8	.	.
GREEN SUNFISH	.	75	9	.	.
GREEN SUNFISH	.	78	8	.	.
GREEN SUNFISH	.	88	15	.	.
GREEN SUNFISH	.	82	11	.	.
GREEN SUNFISH	.	78	9	.	.
GREEN SUNFISH	.	70	8	.	.
PUMPKINSEED	.	120	33	.	.
PUMPKINSEED	.	120	38	.	.
PUMPKINSEED	.	90	15	.	.
ORANGESPOTTED SUNFISH	.	69	6	.	.
BLUEGILL	.	128	40	.	.
BLUEGILL	.	108	23	.	.
BLUEGILL	.	112	26	.	.
BLUEGILL	.	90	14	.	.
BLUEGILL	.	110	24	.	.
BLUEGILL	.	94	16	.	.
BLUEGILL	.	98	18	.	.
BLUEGILL	.	108	21	.	.
LARGEMOUTH BASS	YOY	92	10	.	.
ROUND GOBY	.	75	7	.	.
SITE: SHIP CANAL LOCATION: 303 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 23SEP13:15:01 END DATE AND TIME: 23SEP13:15:26					
GIZZARD SHAD	.	242	145	.	.
GIZZARD SHAD	.	270	192	.	.
GIZZARD SHAD	.	189	66	.	.
GIZZARD SHAD	.	307	310	.	.
GIZZARD SHAD	YOY	71	3	.	.
BLUEGILL	.	154	71	.	.
FRESHWATER DRUM	.	352	460	.	.
FRESHWATER DRUM	.	392	930	.	.
ROUND GOBY	.	.	.	1	6
SITE: SHIP CANAL LOCATION: 304 GEAR: ELECTRO MESOHABITAT:					
START DATE AND TIME: 23SEP13:13:40 END DATE AND TIME: 23SEP13:14:14					
BLUNTNOSE MINNOW	.	.	.	25	61
WHITE SUCKER	.	237	140	.	.
WHITE SUCKER	.	221	135	.	.
WHITE SUCKER	.	356	500	.	.
WHITE SUCKER	.	223	125	.	.
WHITE SUCKER	.	160	44	.	.
YELLOW BULLHEAD	.	184	95	.	.
YELLOW BULLHEAD	.	195	115	.	.
YELLOW BULLHEAD	.	138	43	.	.
YELLOW BULLHEAD	.	160	66	.	.
YELLOW BULLHEAD	.	130	30	.	.
YELLOW BULLHEAD	.	211	135	.	.
YELLOW BULLHEAD	.	148	45	.	.
CHANNEL CATFISH	.	565	1750	.	.
CHANNEL CATFISH	.	538	1540	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
CHANNEL CATFISH	.	490	1310	.	.
CHANNEL CATFISH	.	445	835	.	.
CHANNEL CATFISH	.	494	1410	.	.
CHANNEL CATFISH	.	488	1210	.	.
CHANNEL CATFISH	.	466	940	.	.
CHANNEL CATFISH	.	445	570	.	.
CHANNEL CATFISH	.	545	1590	.	.
CHANNEL CATFISH	.	460	1210	.	.
ROCK BASS	.	145	60	.	.
ROCK BASS	.	127	41	.	.
ROCK BASS	YOY	72	8	.	.
GREEN SUNFISH	.	159	79	.	.
GREEN SUNFISH	.	119	42	.	.
GREEN SUNFISH	.	120	42	.	.
BLUEGILL	.	122	32	.	.
BLUEGILL	.	130	33	.	.
BLUEGILL	.	127	38	.	.
BLUEGILL	.	108	26	.	.
BLUEGILL	.	119	34	.	.
BLUEGILL	.	105	21	.	.
BLUEGILL	.	96	14	.	.
BLUEGILL	.	116	27	.	.
BLUEGILL	YOY	86	11	.	.
SMALLMOUTH BASS	.	242	175	.	.
SMALLMOUTH BASS	.	113	21	.	.
SMALLMOUTH BASS	.	172	75	.	.
SMALLMOUTH BASS	.	133	34	.	.
SMALLMOUTH BASS	YOY	106	16	.	.
SMALLMOUTH BASS	.	132	30	.	.
SMALLMOUTH BASS	.	138	35	.	.
SMALLMOUTH BASS	.	127	28	.	.
SMALLMOUTH BASS	.	119	21	.	.
SMALLMOUTH BASS	.	126	26	.	.
SMALLMOUTH BASS	YOY	103	16	.	.
SMALLMOUTH BASS	.	129	32	.	.
SMALLMOUTH BASS	.	140	39	.	.
SMALLMOUTH BASS	.	142	44	.	.
LARGEMOUTH BASS	.	137	38	.	.
LARGEMOUTH BASS	.	122	21	.	.
LARGEMOUTH BASS	.	128	31	.	.
LOGPERCH	.	.	.	1	8
LOGPERCH	.	.	.	1	5
LOGPERCH	.	.	.	1	8
BLACKSIDE DARTER	.	.	.	1	2
ROUND GOBY	.	104	17	.	.
ROUND GOBY	.	96	15	.	.
ROUND GOBY	.	107	21	.	.
ROUND GOBY	YOY	48	2	.	.
ROUND GOBY	.	75	6	.	.
ROUND GOBY	YOY	53	2	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	.	67	4	.	.
ROUND GOBY	YOY	57	2	.	.
ROUND GOBY	YOY	56	2	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	61	3	.	.
ROUND GOBY	YOY	51	2	.	.
ROUND GOBY	YOY	57	3	.	.
ROUND GOBY	YOY	52	2	.	.
ROUND GOBY	YOY	52	2	.	.
ROUND GOBY	YOY	50	2	.	.
ROUND GOBY	YOY	55	3	.	.
ROUND GOBY	YOY	46	1	.	.

SITE: SHIP CANAL LOCATION: 305 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 23SEP13:15:39 END DATE AND TIME: 23SEP13:16:10

GIZZARD SHAD	.	278	230	.	.
GIZZARD SHAD	.	196	81	.	.
GIZZARD SHAD	.	210	95	.	.
GIZZARD SHAD	.	180	55	.	.
GIZZARD SHAD	.	184	61	.	.
GIZZARD SHAD	.	127	20	.	.
GIZZARD SHAD	.	197	70	.	.
GIZZARD SHAD	.	203	81	.	.
GIZZARD SHAD	YOY	70	3	.	.
GIZZARD SHAD	YOY	53	1	.	.
GIZZARD SHAD	YOY	68	3	.	.
GIZZARD SHAD	YOY	80	5	.	.
GIZZARD SHAD	YOY	50	1	.	.
GIZZARD SHAD	YOY	71	3	.	.
GIZZARD SHAD	YOY	78	5	.	.
GIZZARD SHAD	YOY	53	2	.	.
GIZZARD SHAD	YOY	57	2	.	.
GIZZARD SHAD	YOY	59	2	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	62	2	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT
GIZZARD SHAD	YOY	63	3	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	55	2	.	.
GIZZARD SHAD	YOY	68	3	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	64	3	.	.
GIZZARD SHAD	YOY	72	4	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	88	7	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	.	.	127	365
COMMON CARP	.	560	2350	.	.
SPOTFIN SHINER	YOY	.	.	1	1
BLUNTNOST MINNOW	.	.	.	14	29
BLUNTNOST MINNOW	.	.	.	1	1
CHANNEL CATFISH	.	433	670	.	.
GREEN SUNFISH	.	127	45	.	.
PUMPKINSEED	.	135	51	.	.
PUMPKINSEED	.	116	33	.	.
PUMPKINSEED	.	112	28	.	.
PUMPKINSEED	.	117	38	.	.
PUMPKINSEED	.	104	26	.	.
PUMPKINSEED	.	110	24	.	.
PUMPKINSEED	.	98	18	.	.
PUMPKINSEED	.	120	33	.	.
PUMPKINSEED	.	119	34	.	.
PUMPKINSEED	.	107	23	.	.
PUMPKINSEED	.	124	38	.	.
PUMPKINSEED	.	110	27	.	.
PUMPKINSEED	.	102	21	.	.
PUMPKINSEED	.	102	20	.	.
PUMPKINSEED	.	117	38	.	.
PUMPKINSEED	.	107	23	.	.
ORANGESPOTTED SUNFISH	YOY	56	3	.	.
ORANGESPOTTED SUNFISH	.	65	5	.	.
ORANGESPOTTED SUNFISH	.	72	7	.	.
ORANGESPOTTED SUNFISH	.	69	6	.	.
ORANGESPOTTED SUNFISH	.	76	8	.	.
ORANGESPOTTED SUNFISH	YOY	53	3	.	.
ORANGESPOTTED SUNFISH	.	64	5	.	.
ORANGESPOTTED SUNFISH	.	67	6	.	.
ORANGESPOTTED SUNFISH	YOY	58	4	.	.
BLUEGILL	.	128	37	.	.
BLUEGILL	.	95	17	.	.
LARGEMOUTH BASS	.	193	102	.	.
LARGEMOUTH BASS	.	142	38	.	.
LARGEMOUTH BASS	.	192	101	.	.
LARGEMOUTH BASS	.	147	40	.	.
FRESHWATER DRUM	.	511	1860	.	.
ROUND GOBY	YOY	37	1	.	.
ROUND GOBY	YOY	34	1	.	.
ROUND GOBY	YOY	36	1	.	.
ROUND GOBY	YOY	30	1	.	.
ROUND GOBY	YOY	42	1	.	.
ROUND GOBY	.	66	4	.	.
ROUND GOBY	YOY	58	3	.	.
ROUND GOBY	YOY	59	3	.	.
ROUND GOBY	YOY	60	3	.	.
ROUND GOBY	YOY	45	1	.	.
ROUND GOBY	YOY	61	4	.	.
ROUND GOBY	YOY	49	2	.	.
ROUND GOBY	YOY	54	2	.	.
ROUND GOBY	YOY	51	2	.	.
ROUND GOBY	YOY	59	3	.	.

SITE: SHIP CANAL LOCATION: 306 GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER
 START DATE AND TIME: 23SEP13:16:39 END DATE AND TIME: 23SEP13:17:09

GIZZARD SHAD	.	204	84	.	.
GIZZARD SHAD	.	149	30	.	.
GIZZARD SHAD	.	139	27	.	.
GIZZARD SHAD	.	144	31	.	.
GIZZARD SHAD	.	133	27	.	.
GIZZARD SHAD	.	132	21	.	.
GIZZARD SHAD	.	137	28	.	.
GIZZARD SHAD	.	148	33	.	.
GIZZARD SHAD	.	130	20	.	.
GIZZARD SHAD	.	131	22	.	.
GIZZARD SHAD	.	135	24	.	.
GIZZARD SHAD	.	133	23	.	.
GIZZARD SHAD	.	145	27	.	.
BLUNTNOST MINNOW	.	.	.	1	2
PUMPKINSEED	.	105	27	.	.
BLUEGILL	.	127	37	.	.
BLUEGILL	.	102	18	.	.
FRESHWATER DRUM	.	379	660	.	.

APPENDIX C (cont.)

SPECIES	STAGE	LENGTH	WEIGHT	COUNT	WEIGHT

SITE: SHIP CANAL LOCATION: 307		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 23SEP13:17:36		END DATE AND TIME: 23SEP13:18:08			
GIZZARD SHAD	YOY	62	2	.	.
GIZZARD SHAD	YOY	89	7	.	.
GIZZARD SHAD	YOY	71	4	.	.
GIZZARD SHAD	YOY	72	4	.	.
GIZZARD SHAD	YOY	73	4	.	.
GIZZARD SHAD	YOY	73	4	.	.
GIZZARD SHAD	YOY	71	3	.	.
GIZZARD SHAD	YOY	77	4	.	.
GIZZARD SHAD	YOY	66	3	.	.
GIZZARD SHAD	YOY	80	4	.	.
GIZZARD SHAD	YOY	71	3	.	.
GIZZARD SHAD	YOY	76	4	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	69	3	.	.
GIZZARD SHAD	YOY	68	3	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	61	2	.	.
GIZZARD SHAD	YOY	67	3	.	.
GIZZARD SHAD	YOY	65	3	.	.
GIZZARD SHAD	YOY	64	2	.	.
EMERALD SHINER	.	.	.	1	2
SPOTFIN SHINER	.	.	.	1	1
BLUNTNOSE MINNOW	.	.	.	3	13
BLUNTNOSE MINNOW	YOY	.	.	4	1
BLUNTNOSE MINNOW	.	.	.	35	47
GREEN SUNFISH	YOY	38	1	.	.
GREEN SUNFISH	.	87	13	.	.
GREEN SUNFISH	.	70	8	.	.
PUMPKINSEED	.	108	23	.	.
ORANGESPOTTED SUNFISH	YOY	61	4	.	.
BLUEGILL	.	137	54	.	.
BLUEGILL	.	109	24	.	.
BLUEGILL	.	101	21	.	.
LARGEMOUTH BASS	.	152	54	.	.
LARGEMOUTH BASS	.	212	120	.	.
ROUND GOBY	YOY	33	1	.	.
ROUND GOBY	YOY	36	1	.	.
ROUND GOBY	YOY	40	1	.	.
ROUND GOBY	.	65	4	.	.
ROUND GOBY	YOY	58	3	.	.
ROUND GOBY	.	71	6	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	42	1	.	.
ROUND GOBY	.	69	5	.	.
ROUND GOBY	YOY	46	1	.	.
ROUND GOBY	YOY	41	1	.	.
ROUND GOBY	YOY	40	1	.	.
ROUND GOBY	YOY	59	3	.	.
SITE: SHIP CANAL LOCATION: 309		GEAR: ELECTRO MESOHABITAT: MAIN CHANNEL BORDER			
START DATE AND TIME: 24SEP13:11:28		END DATE AND TIME: 24SEP13:11:59			
GIZZARD SHAD	.	213	99	.	.
GIZZARD SHAD	YOY	118	18	.	.
GIZZARD SHAD	.	144	31	.	.
GIZZARD SHAD	YOY	112	14	.	.
GIZZARD SHAD	.	141	29	.	.
GIZZARD SHAD	.	126	22	.	.
GIZZARD SHAD	.	131	22	.	.
GIZZARD SHAD	.	120	17	.	.
GIZZARD SHAD	YOY	114	14	.	.
GIZZARD SHAD	.	150	33	.	.
GIZZARD SHAD	.	128	19	.	.
GIZZARD SHAD	.	132	24	.	.
BLUNTNOSE MINNOW	.	.	.	1	3
BLUNTNOSE MINNOW	.	.	.	4	12
GREEN SUNFISH	YOY	45	2	.	.
GREEN SUNFISH	YOY	47	2	.	.
PUMPKINSEED	YOY	39	1	.	.
PUMPKINSEED	YOY	41	1	.	.
PUMPKINSEED	YOY	40	1	.	.
BLUEGILL	.	113	22	.	.
BLUEGILL	YOY	39	1	.	.
BLUEGILL	YOY	38	1	.	.
BLUEGILL	YOY	49	3	.	.
LARGEMOUTH BASS	.	171	65	.	.
LARGEMOUTH BASS	YOY	112	16	.	.
LARGEMOUTH BASS	YOY	109	15	.	.

APPENDIX D

INDEX OF WELL BEING SCORES

UPPER ILLINOIS WATERWAY – 2013

APPENDIX D. INDEX OF WELL BEING (IWB & IWBmod) SUMMARY - 2013 UPPER ILLINOIS WATERWAY

METHOD	DATE	LOCATION	DISTANCE	IWB	IWBMOD	TOTCNT	TOTWGT	INTCNT	INTWGT	DIVERCNT	DIVERWGT
BOAT	20MAY13	301	500	1.723	1.376	4.00	0.038	2.00	0.004	0.693	0.336
BOAT	04JUN13	301	500	0.693	0.000	4.00	0.150	0.00	0.000	0.000	0.000
BOAT	01JUL13	301	500	0.000	0.000	0.00	0.000	0.00	0.000	0.000	0.000
BOAT	15JUL13	301	500	2.832	2.486	8.00	0.170	4.00	0.120	1.040	0.753
BOAT	14AUG13	301	500	1.546	1.546	22.00	0.098	22.00	0.098	0.000	0.000
BOAT	26AUG13	301	500	1.040	1.040	8.00	0.160	8.00	0.160	0.000	0.000
BOAT	09SEP13	301	500	0.347	0.000	2.00	0.062	0.00	0.000	0.000	0.000
BOAT	23SEP13	301	500	3.112	3.021	24.00	0.690	20.00	0.652	0.868	0.656
BOAT	20MAY13	302	500	1.661	1.661	4.00	1.702	4.00	1.702	0.693	0.009
BOAT	04JUN13	302	500	2.486	0.000	6.00	2.162	0.00	0.000	1.099	0.106
BOAT	01JUL13	302	500	1.781	1.781	4.00	1.546	4.00	1.546	0.693	0.176
BOAT	15JUL13	302	500	3.982	3.929	20.00	0.082	18.00	0.074	1.280	1.204
BOAT	14AUG13	302	500	3.467	3.442	202.00	0.698	192.00	0.624	0.329	0.484
BOAT	26AUG13	302	500	3.585	3.489	46.00	0.576	38.00	0.532	0.887	0.783
BOAT	09SEP13	302	500	3.139	2.984	30.00	0.266	22.00	0.220	0.803	0.636
BOAT	23SEP13	302	500	4.029	3.623	36.00	0.640	16.00	0.498	1.120	1.117
BOAT	20MAY13	302A	500	6.394	5.937	72.00	14.536	54.00	7.766	1.721	1.197
BOAT	04JUN13	302A	500	6.459	6.294	316.00	5.634	254.00	5.038	1.385	1.332
BOAT	01JUL13	302A	500	6.393	5.482	74.00	18.132	60.00	3.616	2.046	0.746
BOAT	15JUL13	302A	500	5.663	4.288	92.00	31.724	80.00	2.334	1.330	0.343
BOAT	14AUG13	302A	500	5.421	4.520	30.00	5.346	12.00	2.204	1.679	1.203
BOAT	26AUG13	302A	500	5.103	4.785	48.00	1.508	32.00	1.198	1.540	1.422
BOAT	09SEP13	302A	500	4.832	4.597	48.00	0.722	30.00	0.678	1.639	1.258
BOAT	23SEP13	302A	500	5.125	4.831	70.00	1.314	44.00	1.162	1.653	1.211
BOAT	20MAY13	302B	500	7.300	6.795	90.00	20.296	48.00	13.870	2.143	1.402
BOAT	04JUN13	302B	500	6.512	5.618	246.00	10.352	150.00	2.840	1.437	1.153
BOAT	01JUL13	302B	500	5.370	4.528	140.00	0.966	26.00	0.272	1.434	1.465
BOAT	15JUL13	302B	500	6.379	6.268	214.00	7.432	178.00	7.156	1.315	1.378
BOAT	14AUG13	302B	500	6.109	5.579	114.00	4.334	46.00	3.718	1.612	1.396
BOAT	26AUG13	302B	500	6.646	6.217	110.00	6.098	58.00	4.898	1.777	1.615
BOAT	09SEP13	302B	500	5.601	4.828	82.00	1.032	18.00	0.450	1.720	1.663
BOAT	23SEP13	302B	500	6.186	5.442	124.00	2.610	44.00	1.662	1.708	1.588
BOAT	20MAY13	303	500	4.566	3.547	26.00	2.366	8.00	0.676	1.525	0.982
BOAT	04JUN13	303	500	4.352	3.131	22.00	4.182	8.00	0.070	1.673	0.418
BOAT	01JUL13	303	500	3.097	2.755	20.00	1.510	12.00	1.268	0.943	0.450
BOAT	15JUL13	303	500	4.576	4.386	20.00	4.444	14.00	4.340	1.696	0.637
BOAT	14AUG13	303	500	4.847	3.762	30.00	4.430	10.00	1.516	1.455	0.947
BOAT	26AUG13	303	500	5.327	3.936	50.00	2.586	8.00	0.690	1.498	1.397
BOAT	09SEP13	303	500	3.875	3.591	14.00	3.004	8.00	2.980	1.277	0.728
BOAT	23SEP13	303	500	4.112	4.052	18.00	4.366	16.00	4.354	1.149	0.781
BOAT	20MAY13	304	500	7.375	6.646	106.00	47.710	78.00	15.100	2.275	0.835
BOAT	04JUN13	304	500	7.108	6.089	142.00	28.480	72.00	7.308	1.931	1.025
BOAT	01JUL13	304	500	7.476	6.558	114.00	34.722	66.00	9.560	2.239	1.096
BOAT	15JUL13	304	500	6.596	6.030	90.00	9.000	38.00	6.870	2.062	1.185
BOAT	14AUG13	304	500	4.864	3.103	26.00	7.810	6.00	0.086	1.631	0.576
BOAT	26AUG13	304	500	7.043	6.259	114.00	19.250	44.00	10.394	2.115	1.081
BOAT	09SEP13	304	500	6.345	5.330	116.00	7.636	26.00	4.472	1.675	1.277
BOAT	23SEP13	304	500	7.357	6.862	204.00	30.408	86.00	26.830	2.164	0.826
BOAT	20MAY13	305	500	5.672	5.339	94.00	11.812	84.00	6.794	1.190	0.976
BOAT	04JUN13	305	500	6.017	5.234	78.00	8.738	50.00	2.846	1.710	1.045
BOAT	01JUL13	305	500	6.009	5.678	230.00	12.544	198.00	7.516	1.102	0.923
BOAT	15JUL13	305	500	5.493	5.079	32.00	0.274	14.00	0.182	2.068	1.692
BOAT	14AUG13	305	500	4.166	3.895	54.00	1.942	34.00	1.796	1.271	0.568
BOAT	26AUG13	305	500	6.943	6.674	180.00	8.152	114.00	7.506	1.985	1.313
BOAT	09SEP13	305	500	5.948	5.571	68.00	2.954	36.00	2.628	2.035	1.261
BOAT	23SEP13	305	500	7.236	6.941	446.00	13.932	382.00	9.018	1.164	1.704
BOAT	20MAY13	306	500	6.380	6.084	42.00	5.918	24.00	5.728	2.265	1.357
BOAT	04JUN13	306	500	6.191	5.742	126.00	7.082	92.00	3.948	1.610	1.184
BOAT	01JUL13	306	500	6.804	6.128	76.00	30.604	56.00	10.744	1.832	1.096
BOAT	15JUL13	306	500	6.050	4.504	58.00	12.134	32.00	0.752	2.116	0.656
BOAT	14AUG13	306	500	5.743	5.576	52.00	2.710	40.00	2.526	1.998	1.271
BOAT	26AUG13	306	500	6.219	5.476	94.00	4.052	44.00	1.960	1.775	1.473
BOAT	09SEP13	306	500	6.055	5.419	62.00	5.388	42.00	2.230	1.778	1.371
BOAT	23SEP13	306	500	4.095	4.066	36.00	2.282	34.00	2.278	0.961	0.930
BOAT	20MAY13	307	500	5.234	5.161	92.00	4.616	82.00	4.476	1.333	0.876
BOAT	05JUN13	307	500	4.730	4.151	72.00	1.240	28.00	0.834	1.306	1.179
BOAT	01JUL13	307	500	5.244	3.833	84.00	4.402	22.00	0.066	1.903	0.385
BOAT	15JUL13	307	500	7.090	6.258	82.00	19.838	42.00	7.344	2.212	1.180
BOAT	14AUG13	307	500	5.806	5.678	84.00	7.154	66.00	7.050	1.481	1.126
BOAT	26AUG13	307	500	6.659	5.448	146.00	12.750	44.00	3.760	1.799	1.095
BOAT	09SEP13	307	500	6.020	5.871	106.00	7.812	82.00	7.496	1.611	1.049
BOAT	23SEP13	307	500	5.837	5.288	174.00	0.966	58.00	0.742	1.498	1.760

APPENDIX D (cont.)

METHOD	DATE	LOCATION	DISTANCE	IWB	IWBMOD	TOTCNT	TOTWGT	INTCNT	INTWGT	DIVERCNT	DIVERWGT
BOAT	21MAY13	309	500	1.522	0.000	2.00	10.500	0.00	0.000	0.000	0.000
BOAT	05JUN13	309	500	2.398	2.398	18.00	0.226	18.00	0.226	0.349	0.604
BOAT	02JUL13	309	500	5.066	3.968	26.00	10.084	20.00	1.458	1.778	0.503
BOAT	15JUL13	309	500	3.350	2.544	8.00	6.610	4.00	2.640	0.693	0.673
BOAT	14AUG13	309	500	4.823	4.756	32.00	0.862	28.00	0.612	1.542	1.548
BOAT	27AUG13	309	500	4.576	4.561	70.00	5.190	68.00	5.188	0.850	0.778
BOAT	09SEP13	309	500	4.649	3.749	36.00	7.228	28.00	1.536	1.303	0.565
BOAT	24SEP13	309	500	4.532	4.394	58.00	0.974	44.00	0.936	1.595	0.907
BOAT	21MAY13	402	500	8.805	8.702	122.00	38.024	100.00	37.738	2.478	2.105
BOAT	05JUN13	402	500	7.966	7.504	102.00	37.730	72.00	21.228	2.118	1.720
BOAT	02JUL13	402	500	8.340	8.175	98.00	64.728	76.00	60.048	2.386	1.576
BOAT	16JUL13	402	500	7.655	6.631	122.00	50.246	64.00	12.342	2.199	1.096
BOAT	15AUG13	402	500	7.632	7.407	52.00	17.824	40.00	14.774	2.395	1.821
BOAT	27AUG13	402	500	7.316	6.389	68.00	38.908	38.00	10.908	2.270	1.106
BOAT	10SEP13	402	500	8.156	7.792	90.00	23.666	58.00	17.716	2.633	1.691
BOAT	24SEP13	402	500	8.038	7.803	156.00	35.702	116.00	30.026	2.076	1.650
BOAT	21MAY13	402A	500	7.407	7.231	120.00	18.760	88.00	17.996	1.847	1.700
BOAT	05JUN13	402A	500	8.550	8.170	140.00	50.502	76.00	43.562	2.239	1.879
BOAT	02JUL13	402A	500	8.473	8.246	226.00	42.768	190.00	32.360	1.975	1.910
BOAT	16JUL13	402A	500	7.498	7.258	116.00	21.084	90.00	16.830	1.924	1.673
BOAT	15AUG13	402A	500	6.919	6.762	84.00	17.372	76.00	14.038	1.568	1.708
BOAT	27AUG13	402A	500	7.920	7.342	182.00	20.896	78.00	15.352	1.820	1.978
BOAT	10SEP13	402A	500	7.398	6.873	182.00	18.476	88.00	13.348	1.670	1.669
BOAT	24SEP13	402A	500	6.387	6.072	130.00	8.994	72.00	8.660	1.535	1.320
BOAT	21MAY13	403	500	8.374	8.274	120.00	75.434	102.00	72.566	2.336	1.483
BOAT	05JUN13	403	500	8.394	8.180	208.00	35.434	158.00	30.382	2.189	1.753
BOAT	02JUL13	403	500	6.932	6.819	160.00	43.996	130.00	43.156	1.733	0.770
BOAT	16JUL13	403	500	5.474	5.296	62.00	6.446	46.00	6.076	1.345	1.134
BOAT	15AUG13	403	500	7.247	7.057	70.00	33.120	56.00	28.326	2.058	1.315
BOAT	27AUG13	403	500	5.921	5.386	120.00	7.998	50.00	6.588	1.440	1.048
BOAT	10SEP13	403	500	6.057	5.849	68.00	8.534	48.00	7.982	2.045	0.830
BOAT	24SEP13	403	500	7.196	6.908	620.00	46.974	572.00	28.632	0.860	1.197
BOAT	21MAY13	403A	500	5.950	5.796	24.00	11.104	20.00	9.784	1.907	1.250
BOAT	05JUN13	403A	500	7.045	6.836	166.00	21.970	136.00	17.678	1.297	1.647
BOAT	02JUL13	403A	500	7.245	7.144	116.00	20.300	104.00	18.518	1.528	1.835
BOAT	16JUL13	403A	500	5.893	5.626	44.00	8.630	40.00	5.568	1.493	1.430
BOAT	15AUG13	403A	500	7.009	6.757	68.00	15.344	60.00	10.516	1.773	1.761
BOAT	27AUG13	403A	500	6.007	5.667	28.00	11.168	18.00	8.802	2.045	1.089
BOAT	10SEP13	403A	500	6.068	6.068	28.00	9.490	28.00	9.490	1.772	1.505
BOAT	24SEP13	403A	500	6.398	6.153	180.00	7.922	124.00	7.058	1.409	1.358
BOAT	21MAY13	404A	500	6.901	6.681	108.00	12.408	92.00	9.384	1.494	1.807
BOAT	05JUN13	404A	500	7.610	7.343	174.00	20.034	126.00	16.224	1.623	1.909
BOAT	02JUL13	404A	500	7.490	7.201	114.00	19.884	78.00	16.302	1.876	1.751
BOAT	16JUL13	404A	500	5.708	5.524	46.00	12.946	34.00	12.118	1.715	0.798
BOAT	15AUG13	404A	500	6.328	6.178	52.00	16.626	44.00	14.542	1.745	1.203
BOAT	27AUG13	404A	500	6.682	6.002	258.00	12.630	72.00	11.612	1.363	1.275
BOAT	10SEP13	404A	500	6.767	6.432	62.00	7.434	40.00	5.898	1.899	1.802
BOAT	24SEP13	404A	500	6.053	5.559	72.00	3.698	34.00	2.916	1.623	1.637
BOAT	21MAY13	405	500	7.902	7.498	298.00	31.448	214.00	19.540	1.663	1.666
BOAT	06JUN13	405	500	7.639	7.377	286.00	27.504	184.00	25.300	1.801	1.353
BOAT	02JUL13	405	500	7.577	7.246	262.00	10.054	188.00	7.226	1.808	1.832
BOAT	16JUL13	405	500	5.879	5.482	30.00	11.586	24.00	6.538	1.617	1.337
BOAT	15AUG13	405	500	3.069	3.069	58.00	7.982	58.00	7.982	0.000	0.000
BOAT	27AUG13	405	500	7.547	6.707	322.00	32.680	110.00	17.812	1.481	1.436
BOAT	10SEP13	405	500	5.265	5.062	44.00	2.408	30.00	2.352	1.641	1.293
BOAT	25SEP13	405	500	7.275	5.999	372.00	15.516	164.00	2.744	1.858	1.087
BOAT	21MAY13	408	500	7.370	6.934	256.00	18.270	214.00	9.144	1.466	1.678
BOAT	06JUN13	408	500	8.288	7.573	364.00	41.838	196.00	18.598	1.882	1.591
BOAT	03JUL13	408	500	7.225	6.626	158.00	13.598	94.00	6.896	2.001	1.388
BOAT	16JUL13	408	500	8.063	7.806	136.00	42.790	98.00	35.530	2.045	1.683
BOAT	16AUG13	408	500	6.105	5.570	52.00	10.382	34.00	5.446	1.962	0.998
BOAT	28AUG13	408	500	7.412	7.080	130.00	8.094	86.00	6.292	2.114	1.818
BOAT	10SEP13	408	500	7.429	6.935	164.00	9.712	110.00	5.386	2.072	1.671
BOAT	25SEP13	408	500	6.663	6.152	262.00	4.968	198.00	2.364	1.567	1.510
BOAT	22MAY13	412A	500	5.983	5.934	172.00	12.568	158.00	12.396	1.153	0.991
BOAT	06JUN13	412A	500	4.850	4.802	100.00	2.942	92.00	2.908	0.828	1.180
BOAT	03JUL13	412A	500	6.384	6.338	128.00	3.614	118.00	3.574	1.736	1.580
BOAT	17JUL13	412A	500	5.862	5.669	102.00	4.646	72.00	4.476	1.599	1.183
BOAT	16AUG13	412A	500	5.664	5.340	56.00	3.876	48.00	2.366	1.680	1.294
BOAT	28AUG13	412A	500	6.791	6.697	130.00	7.866	108.00	7.842	1.716	1.610
BOAT	11SEP13	412A	500	6.197	5.210	222.00	4.642	104.00	1.378	1.516	1.211
BOAT	25SEP13	412A	500	6.466	6.158	390.00	2.502	244.00	2.160	1.425	1.599

APPENDIX D (cont.)

METHOD	DATE	LOCATION	DISTANCE	IWB	IWBMOD	TOTCNT	TOTWGT	INTCNT	INTWGT	DIVERCNT	DIVERWGT
BOAT	22MAY13	414	500	7.460	7.233	536.00	33.336	486.00	23.342	0.924	1.641
BOAT	06JUN13	414	500	7.115	7.059	504.00	26.960	470.00	25.890	0.938	1.419
BOAT	03JUL13	414	500	6.445	6.377	284.00	17.848	266.00	16.646	0.799	1.380
BOAT	17JUL13	414	500	6.052	6.008	274.00	13.170	256.00	12.932	0.889	1.067
BOAT	16AUG13	414	500	5.738	5.701	114.00	5.702	108.00	5.594	1.073	1.426
BOAT	28AUG13	414	500	7.217	7.090	200.00	15.546	184.00	13.118	1.440	1.755
BOAT	11SEP13	414	500	7.859	7.756	540.00	31.058	520.00	26.242	1.227	1.768
BOAT	25SEP13	414	500	8.117	7.811	432.00	31.306	384.00	19.108	1.687	1.674
BOAT	22MAY13	418	500	7.653	7.569	354.00	48.950	304.00	48.200	1.511	1.261
BOAT	06JUN13	418	500	8.089	7.970	602.00	41.088	498.00	39.204	1.111	1.919
BOAT	03JUL13	418	500	7.980	7.643	468.00	22.750	276.00	19.638	1.631	1.712
BOAT	17JUL13	418	500	7.571	7.447	140.00	20.640	118.00	19.100	1.655	1.932
BOAT	16AUG13	418	500	6.385	5.712	146.00	4.868	44.00	4.208	1.810	1.292
BOAT	28AUG13	418	500	7.272	6.934	176.00	11.330	126.00	8.054	1.963	1.510
BOAT	11SEP13	418	500	5.820	5.648	70.00	2.938	58.00	2.518	1.963	1.194
BOAT	25SEP13	418	500	5.687	5.534	106.00	3.556	84.00	3.306	1.529	1.192
BOAT	22MAY13	419A	500	6.803	6.291	104.00	21.396	86.00	9.292	1.583	1.366
BOAT	06JUN13	419A	500	5.503	5.382	100.00	5.114	84.00	4.788	1.196	1.188
BOAT	03JUL13	419A	500	7.008	6.580	94.00	16.208	76.00	8.518	1.803	1.541
BOAT	17JUL13	419A	500	6.249	6.205	80.00	11.904	74.00	11.790	1.249	1.570
BOAT	16AUG13	419A	500	4.470	4.385	26.00	9.926	22.00	9.902	1.157	0.537
BOAT	28AUG13	419A	500	8.083	7.939	164.00	60.028	138.00	53.468	1.885	1.601
BOAT	11SEP13	419A	500	7.035	6.853	88.00	7.886	72.00	6.690	1.940	1.825
BOAT	25SEP13	419A	500	4.021	4.021	12.00	1.656	12.00	1.656	1.330	1.196

APPENDIX E

RELATIVE WEIGHTS

UPPER ILLINOIS WATERWAY – 2013

APPENDIX E. LINE LISTING OF RELATIVE WEIGHT DATA BY SEGMENT, SPECIES, AND DATE, 2013

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
LOWER LOCKPORT POOL	302	20MAY13	LONGNOSE GAR	721	850	76.5
LOWER LOCKPORT POOL	302	01JUL13	LONGNOSE GAR	683	740	80.2
LOWER LOCKPORT POOL	302B	20MAY13	GIZZARD SHAD	302	245	80.1
LOWER LOCKPORT POOL	302B	20MAY13	GIZZARD SHAD	205	100	111.6
LOWER LOCKPORT POOL	302B	20MAY13	GIZZARD SHAD	344	470	101.7
LOWER LOCKPORT POOL	302B	20MAY13	GIZZARD SHAD	261	170	88.2
LOWER LOCKPORT POOL	302A	04JUN13	GIZZARD SHAD	303	310	100.3
LOWER LOCKPORT POOL	302A	04JUN13	GIZZARD SHAD	374	520	86.3
LOWER LOCKPORT POOL	302A	04JUN13	GIZZARD SHAD	313	330	96.3
LOWER LOCKPORT POOL	302B	04JUN13	GIZZARD SHAD	447	810	76.4
LOWER LOCKPORT POOL	302A	01JUL13	GIZZARD SHAD	310	320	96.3
LOWER LOCKPORT POOL	302A	01JUL13	GIZZARD SHAD	312	330	97.3
LOWER LOCKPORT POOL	302A	01JUL13	GIZZARD SHAD	352	495	99.6
LOWER LOCKPORT POOL	302A	15JUL13	GIZZARD SHAD	311	270	80.4
LOWER LOCKPORT POOL	302B	15JUL13	GIZZARD SHAD	203	95	109.4
LOWER LOCKPORT POOL	302B	15JUL13	GIZZARD SHAD	284	260	103.3
LOWER LOCKPORT POOL	302	14AUG13	GIZZARD SHAD	181	58	96.1
LOWER LOCKPORT POOL	302	14AUG13	GIZZARD SHAD	187	65	97.1
LOWER LOCKPORT POOL	302A	14AUG13	GIZZARD SHAD	376	560	91.4
LOWER LOCKPORT POOL	302B	14AUG13	GIZZARD SHAD	275	235	103.4
LOWER LOCKPORT POOL	302B	14AUG13	GIZZARD SHAD	233	125	93.0
LOWER LOCKPORT POOL	302B	14AUG13	GIZZARD SHAD	192	65	89.3
LOWER LOCKPORT POOL	302B	14AUG13	GIZZARD SHAD	220	115	102.6
LOWER LOCKPORT POOL	302B	14AUG13	GIZZARD SHAD	194	75	99.7
LOWER LOCKPORT POOL	302B	14AUG13	GIZZARD SHAD	199	75	92.0
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	214	90	87.7
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	198	80	99.7
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	208	70	74.6
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	188	58	85.2
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	242	145	95.6
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	188	55	80.8
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	238	125	86.9
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	208	70	74.6
LOWER LOCKPORT POOL	302B	26AUG13	GIZZARD SHAD	191	60	83.8
LOWER LOCKPORT POOL	301	23SEP13	GIZZARD SHAD	190	58	82.4
LOWER LOCKPORT POOL	302B	23SEP13	GIZZARD SHAD	180	52	87.7
LOWER LOCKPORT POOL	302B	23SEP13	GIZZARD SHAD	217	115	107.2
LOWER LOCKPORT POOL	302B	23SEP13	GIZZARD SHAD	188	58	85.2
LOWER LOCKPORT POOL	302B	23SEP13	GIZZARD SHAD	208	91	97.0
LOWER LOCKPORT POOL	302A	20MAY13	COMMON CARP	447	1370	108.8
LOWER LOCKPORT POOL	302A	20MAY13	COMMON CARP	540	1870	85.6
LOWER LOCKPORT POOL	302B	20MAY13	COMMON CARP	468	1420	98.7
LOWER LOCKPORT POOL	302B	20MAY13	COMMON CARP	476	1540	101.8
LOWER LOCKPORT POOL	302	04JUN13	COMMON CARP	421	1060	100.3
LOWER LOCKPORT POOL	302B	04JUN13	COMMON CARP	398	980	109.3
LOWER LOCKPORT POOL	302A	01JUL13	COMMON CARP	511	2000	107.5
LOWER LOCKPORT POOL	302A	01JUL13	COMMON CARP	427	1210	109.9
LOWER LOCKPORT POOL	302A	01JUL13	COMMON CARP	651	4000	106.0
LOWER LOCKPORT POOL	302A	15JUL13	COMMON CARP	632	4600	132.9
LOWER LOCKPORT POOL	302A	15JUL13	COMMON CARP	507	1850	101.8
LOWER LOCKPORT POOL	302A	15JUL13	COMMON CARP	556	2380	100.0
LOWER LOCKPORT POOL	302A	15JUL13	COMMON CARP	577	2590	97.6
LOWER LOCKPORT POOL	302A	15JUL13	COMMON CARP	605	3270	107.4
LOWER LOCKPORT POOL	302A	14AUG13	COMMON CARP	448	1440	113.7
LOWER LOCKPORT POOL	302A	20MAY13	YELLOW BULLHEAD	192	100	98.7
LOWER LOCKPORT POOL	302B	26AUG13	YELLOW BULLHEAD	302	370	84.5
LOWER LOCKPORT POOL	302B	09SEP13	YELLOW BULLHEAD	68	5	141.4
LOWER LOCKPORT POOL	302B	23SEP13	YELLOW BULLHEAD	227	145	83.3
LOWER LOCKPORT POOL	302A	20MAY13	CHANNEL CATFISH	456	900	99.0
LOWER LOCKPORT POOL	302A	20MAY13	CHANNEL CATFISH	440	900	111.4
LOWER LOCKPORT POOL	302A	20MAY13	CHANNEL CATFISH	345	180	49.6
LOWER LOCKPORT POOL	302A	20MAY13	CHANNEL CATFISH	412	660	101.4
LOWER LOCKPORT POOL	302B	20MAY13	CHANNEL CATFISH	528	2000	135.7
LOWER LOCKPORT POOL	302B	20MAY13	CHANNEL CATFISH	407	715	114.4
LOWER LOCKPORT POOL	302B	20MAY13	CHANNEL CATFISH	440	950	117.5
LOWER LOCKPORT POOL	302B	20MAY13	CHANNEL CATFISH	403	540	89.2
LOWER LOCKPORT POOL	302B	04JUN13	CHANNEL CATFISH	85	4	111.3
LOWER LOCKPORT POOL	302B	01JUL13	CHANNEL CATFISH	72	3	144.2
LOWER LOCKPORT POOL	302B	15JUL13	CHANNEL CATFISH	477	950	90.1
LOWER LOCKPORT POOL	302B	14AUG13	CHANNEL CATFISH	465	840	86.6
LOWER LOCKPORT POOL	302B	26AUG13	CHANNEL CATFISH	490	1120	97.2
LOWER LOCKPORT POOL	301	20MAY13	GREEN SUNFISH	101	17	85.1
LOWER LOCKPORT POOL	302A	20MAY13	GREEN SUNFISH	112	32	116.3
LOWER LOCKPORT POOL	302B	20MAY13	GREEN SUNFISH	127	38	93.5
LOWER LOCKPORT POOL	302B	20MAY13	GREEN SUNFISH	120	32	93.9
LOWER LOCKPORT POOL	302B	20MAY13	GREEN SUNFISH	115	26	87.0
LOWER LOCKPORT POOL	302B	20MAY13	GREEN SUNFISH	99	25	133.2
LOWER LOCKPORT POOL	302B	20MAY13	GREEN SUNFISH	96	17	99.6
LOWER LOCKPORT POOL	302B	20MAY13	GREEN SUNFISH	83	14	128.8
LOWER LOCKPORT POOL	302B	20MAY13	GREEN SUNFISH	115	40	133.9
LOWER LOCKPORT POOL	301	04JUN13	GREEN SUNFISH	101	15	75.1
LOWER LOCKPORT POOL	302	04JUN13	GREEN SUNFISH	91	16	110.7

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	114	36	123.8
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	104	27	123.5
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	87	17	135.2
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	102	25	121.4
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	80	12	123.8
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	76	11	133.0
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	68	9	153.7
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	68	7	119.5
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	66	6	112.4
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	62	6	136.4
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	86	15	123.7
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	65	7	137.5
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	85	16	136.8
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	74	10	131.4
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	66	7	131.1
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	75	11	138.6
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	64	7	144.3
LOWER LOCKPORT POOL	302A	04JUN13	GREEN SUNFISH	78	11	122.7
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	131	42	93.9
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	117	26	82.5
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	113	30	106.1
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	119	39	117.4
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	95	25	151.4
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	70	7	109.3
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	88	16	122.8
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	79	11	118.0
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	83	12	110.4
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	70	8	124.9
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	63	5	108.2
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	62	6	136.4
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	63	6	129.8
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	63	6	129.8
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	60	5	125.9
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	61	5	119.6
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	67	7	125.2
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	68	7	119.5
LOWER LOCKPORT POOL	302B	04JUN13	GREEN SUNFISH	76	9	108.9
LOWER LOCKPORT POOL	302A	01JUL13	GREEN SUNFISH	96	21	123.1
LOWER LOCKPORT POOL	302A	01JUL13	GREEN SUNFISH	96	22	128.9
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	71	8	119.5
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	105	30	133.2
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	91	17	117.6
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	81	15	148.9
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	71	8	119.5
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	81	12	119.1
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	65	6	117.8
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	73	9	123.3
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	80	15	154.7
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	77	10	116.1
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	61	5	119.6
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	65	6	117.8
LOWER LOCKPORT POOL	302B	01JUL13	GREEN SUNFISH	65	6	117.8
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	71	8	119.5
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	64	6	123.6
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	79	11	118.0
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	73	9	123.3
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	71	8	119.5
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	86	16	131.9
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	68	9	153.7
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	63	6	129.8
LOWER LOCKPORT POOL	302B	15JUL13	GREEN SUNFISH	81	15	148.9
LOWER LOCKPORT POOL	302A	14AUG13	GREEN SUNFISH	118	42	129.8
LOWER LOCKPORT POOL	302A	14AUG13	GREEN SUNFISH	98	22	121.0
LOWER LOCKPORT POOL	302A	14AUG13	GREEN SUNFISH	87	16	127.3
LOWER LOCKPORT POOL	302A	14AUG13	GREEN SUNFISH	106	32	137.9
LOWER LOCKPORT POOL	302A	14AUG13	GREEN SUNFISH	70	8	124.9
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	130	60	137.3
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	85	14	119.7
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	76	9	108.9
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	90	17	121.7
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	76	11	133.0
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	90	19	136.0
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	78	11	122.7
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	87	13	103.4
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	89	19	140.8
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	67	7	125.2
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	66	7	131.1
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	78	10	111.6
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	66	7	131.1
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	75	8	100.8
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	70	9	140.5
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	80	11	113.5
LOWER LOCKPORT POOL	302B	14AUG13	GREEN SUNFISH	70	8	124.9
LOWER LOCKPORT POOL	302A	26AUG13	GREEN SUNFISH	82	14	133.8
LOWER LOCKPORT POOL	302A	26AUG13	GREEN SUNFISH	118	42	129.8
LOWER LOCKPORT POOL	302A	26AUG13	GREEN SUNFISH	88	15	115.1

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
LOWER LOCKPORT POOL	302A	26AUG13	GREEN SUNFISH	83	14	128.8
LOWER LOCKPORT POOL	302A	26AUG13	GREEN SUNFISH	98	20	110.0
LOWER LOCKPORT POOL	302A	26AUG13	GREEN SUNFISH	80	13	134.1
LOWER LOCKPORT POOL	302A	26AUG13	GREEN SUNFISH	108	36	146.4
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	118	34	105.1
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	103	20	94.2
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	69	7	114.2
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	81	14	139.0
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	73	8	109.6
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	78	11	122.7
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	88	15	115.1
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	86	15	123.7
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	83	13	119.6
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	91	21	145.3
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	71	8	119.5
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	74	9	118.2
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	73	10	137.0
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	78	10	111.6
LOWER LOCKPORT POOL	302B	26AUG13	GREEN SUNFISH	76	11	133.0
LOWER LOCKPORT POOL	301	09SEP13	GREEN SUNFISH	114	31	106.6
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	85	14	119.7
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	72	9	128.7
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	83	13	119.6
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	66	6	112.4
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	81	14	139.0
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	80	13	134.1
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	67	6	107.3
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	92	19	127.1
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	78	12	133.9
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	85	16	136.8
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	79	11	118.0
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	73	9	123.3
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	80	14	144.4
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	84	15	133.0
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	82	13	124.2
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	80	14	144.4
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	82	12	114.7
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	74	9	118.2
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	80	13	134.1
LOWER LOCKPORT POOL	302B	09SEP13	GREEN SUNFISH	85	12	102.6
LOWER LOCKPORT POOL	302A	23SEP13	GREEN SUNFISH	107	20	83.7
LOWER LOCKPORT POOL	302A	23SEP13	GREEN SUNFISH	72	9	128.7
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	85	14	119.7
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	77	10	116.1
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	90	19	136.0
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	80	11	113.5
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	74	8	105.1
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	98	21	115.5
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	84	12	106.4
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	92	16	107.0
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	80	10	103.2
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	68	7	119.5
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	81	10	99.3
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	105	26	115.4
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	104	21	96.0
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	83	13	119.6
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	92	19	127.1
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	77	8	92.9
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	75	9	113.4
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	78	8	89.3
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	88	15	115.1
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	82	11	105.1
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	78	9	100.4
LOWER LOCKPORT POOL	302B	23SEP13	GREEN SUNFISH	70	8	124.9
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	90	18	128.3
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	59	4	111.9
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	72	8	117.5
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	83	14	129.7
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	76	9	110.9
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	90	20	142.6
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	70	7	112.6
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	66	6	116.8
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	63	5	113.1
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	65	5	102.2
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	74	9	120.9
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	76	9	110.9
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	85	14	120.1
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	79	11	119.6
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	63	5	113.1
LOWER LOCKPORT POOL	302A	20MAY13	PUMPKINSEED	59	4	111.9
LOWER LOCKPORT POOL	302B	20MAY13	PUMPKINSEED	88	11	84.4
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	142	75	122.2
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	124	44	111.2
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	73	8	112.3
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	58	4	118.3
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	54	3	111.8

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	61	4	100.4
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	57	4	125.1
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	72	8	117.5
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	86	15	123.9
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	89	16	118.3
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	81	12	120.3
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	97	22	123.1
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	109	32	122.7
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	97	22	123.1
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	87	15	119.4
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	88	16	122.7
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	77	10	118.1
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	92	17	112.9
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	64	5	107.5
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	71	7	107.5
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	62	5	119.1
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	68	6	106.0
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	74	8	107.5
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	83	13	120.5
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	97	23	128.7
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	76	11	135.6
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	89	18	133.1
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	89	17	125.7
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	52	3	126.3
LOWER LOCKPORT POOL	302A	04JUN13	PUMPKINSEED	60	4	106.0
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	93	18	115.4
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	84	12	107.0
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	83	13	120.5
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	65	6	122.7
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	97	20	111.9
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	92	18	119.5
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	91	17	117.0
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	85	13	111.5
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	80	10	104.4
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	84	13	115.9
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	80	11	114.8
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	70	8	128.7
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	97	19	106.3
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	77	9	106.3
LOWER LOCKPORT POOL	302B	04JUN13	PUMPKINSEED	90	17	121.2
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	150	90	122.8
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	107	30	122.2
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	117	41	125.0
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	108	31	122.5
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	77	10	118.1
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	72	8	117.5
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	76	10	123.3
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	94	19	117.7
LOWER LOCKPORT POOL	302A	01JUL13	PUMPKINSEED	106	33	138.5
LOWER LOCKPORT POOL	302B	01JUL13	PUMPKINSEED	126	42	100.8
LOWER LOCKPORT POOL	302B	01JUL13	PUMPKINSEED	120	35	98.3
LOWER LOCKPORT POOL	302B	01JUL13	PUMPKINSEED	112	28	98.4
LOWER LOCKPORT POOL	302B	01JUL13	PUMPKINSEED	66	6	116.8
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	110	33	122.9
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	102	23	109.4
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	117	38	115.9
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	107	27	110.0
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	106	25	105.0
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	92	15	99.6
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	95	18	107.7
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	72	7	102.8
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	110	36	134.1
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	105	32	138.5
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	101	22	108.0
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	112	39	137.0
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	90	18	128.3
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	106	32	134.3
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	109	35	134.3
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	73	10	140.4
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	94	22	136.3
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	83	13	120.5
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	110	36	134.1
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	99	23	120.5
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	76	10	123.3
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	95	21	125.7
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	113	39	133.1
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	112	38	133.5
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	110	34	126.6
LOWER LOCKPORT POOL	302A	15JUL13	PUMPKINSEED	107	34	138.5
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	127	53	124.0
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	127	44	102.9
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	131	53	112.1
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	123	50	129.7
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	124	34	85.9
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	115	29	93.5
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	118	32	94.9

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	114	30	99.5
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	120	40	112.4
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	140	60	102.4
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	155	85	104.3
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	120	35	98.3
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	117	33	100.6
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	118	32	94.9
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	117	40	122.0
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	120	38	106.8
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	123	39	101.2
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	116	36	112.9
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	122	38	101.2
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	100	25	126.7
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	104	28	125.0
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	109	32	122.7
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	105	28	121.2
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	90	20	142.6
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	98	24	129.9
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	71	7	107.5
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	89	16	118.3
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	105	34	147.2
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	105	33	142.9
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	100	28	142.0
LOWER LOCKPORT POOL	302B	15JUL13	PUMPKINSEED	109	32	122.7
LOWER LOCKPORT POOL	302A	14AUG13	PUMPKINSEED	86	15	123.9
LOWER LOCKPORT POOL	302B	14AUG13	PUMPKINSEED	120	35	98.3
LOWER LOCKPORT POOL	302B	14AUG13	PUMPKINSEED	114	29	96.2
LOWER LOCKPORT POOL	302B	14AUG13	PUMPKINSEED	112	29	101.9
LOWER LOCKPORT POOL	302B	14AUG13	PUMPKINSEED	101	19	93.3
LOWER LOCKPORT POOL	302B	14AUG13	PUMPKINSEED	109	26	99.7
LOWER LOCKPORT POOL	302B	14AUG13	PUMPKINSEED	107	21	85.5
LOWER LOCKPORT POOL	302B	14AUG13	PUMPKINSEED	90	17	121.2
LOWER LOCKPORT POOL	302A	26AUG13	PUMPKINSEED	110	32	119.2
LOWER LOCKPORT POOL	302A	26AUG13	PUMPKINSEED	121	39	106.7
LOWER LOCKPORT POOL	302A	26AUG13	PUMPKINSEED	98	19	102.8
LOWER LOCKPORT POOL	302A	26AUG13	PUMPKINSEED	124	40	101.1
LOWER LOCKPORT POOL	302A	26AUG13	PUMPKINSEED	103	27	124.4
LOWER LOCKPORT POOL	302A	26AUG13	PUMPKINSEED	94	20	123.9
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	127	38	88.9
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	119	40	115.5
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	113	28	95.6
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	106	19	79.8
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	106	21	88.2
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	128	39	88.9
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	90	17	121.2
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	103	26	119.8
LOWER LOCKPORT POOL	302B	26AUG13	PUMPKINSEED	105	28	121.2
LOWER LOCKPORT POOL	302A	09SEP13	PUMPKINSEED	115	38	122.5
LOWER LOCKPORT POOL	302A	09SEP13	PUMPKINSEED	114	36	119.4
LOWER LOCKPORT POOL	302A	09SEP13	PUMPKINSEED	92	15	99.6
LOWER LOCKPORT POOL	302A	09SEP13	PUMPKINSEED	109	31	118.9
LOWER LOCKPORT POOL	302A	09SEP13	PUMPKINSEED	105	27	116.9
LOWER LOCKPORT POOL	302A	09SEP13	PUMPKINSEED	86	15	123.9
LOWER LOCKPORT POOL	302A	09SEP13	PUMPKINSEED	111	32	115.7
LOWER LOCKPORT POOL	302B	09SEP13	PUMPKINSEED	136	53	99.3
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	126	39	93.6
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	114	32	106.2
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	120	29	81.5
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	107	22	89.6
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	117	31	94.5
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	128	42	95.8
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	112	38	133.5
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	136	51	95.6
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	112	28	98.4
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	52	3	126.3
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	100	21	106.5
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	116	35	109.8
LOWER LOCKPORT POOL	302A	23SEP13	PUMPKINSEED	103	24	110.6
LOWER LOCKPORT POOL	302B	23SEP13	PUMPKINSEED	120	33	92.7
LOWER LOCKPORT POOL	302B	23SEP13	PUMPKINSEED	120	38	106.8
LOWER LOCKPORT POOL	302B	23SEP13	PUMPKINSEED	90	15	107.0
LOWER LOCKPORT POOL	302A	15JUL13	WARMOUTH	82	12	113.9
LOWER LOCKPORT POOL	302B	20MAY13	BLUEGILL	81	12	133.2
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	126	33	84.7
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	121	22	64.6
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	88	15	126.5
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	84	13	127.9
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	91	16	120.8
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	82	11	117.3
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	84	12	118.1
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	85	13	123.0
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	83	11	112.6
LOWER LOCKPORT POOL	302A	04JUN13	BLUEGILL	82	11	117.3
LOWER LOCKPORT POOL	302B	04JUN13	BLUEGILL	85	13	123.0
LOWER LOCKPORT POOL	302B	04JUN13	BLUEGILL	81	9	99.9
LOWER LOCKPORT POOL	302B	04JUN13	BLUEGILL	80	10	115.7

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
LOWER LOCKPORT POOL	302B	04JUN13	BLUEGILL	91	14	105.7
LOWER LOCKPORT POOL	302A	01JUL13	BLUEGILL	88	16	135.0
LOWER LOCKPORT POOL	302A	01JUL13	BLUEGILL	94	20	135.6
LOWER LOCKPORT POOL	302A	01JUL13	BLUEGILL	88	15	126.5
LOWER LOCKPORT POOL	302A	01JUL13	BLUEGILL	85	13	123.0
LOWER LOCKPORT POOL	302A	15JUL13	BLUEGILL	128	42	102.3
LOWER LOCKPORT POOL	302A	15JUL13	BLUEGILL	104	22	106.6
LOWER LOCKPORT POOL	302A	15JUL13	BLUEGILL	100	22	121.5
LOWER LOCKPORT POOL	302A	15JUL13	BLUEGILL	97	16	97.7
LOWER LOCKPORT POOL	302A	15JUL13	BLUEGILL	95	20	130.9
LOWER LOCKPORT POOL	302A	15JUL13	BLUEGILL	117	36	118.1
LOWER LOCKPORT POOL	302A	15JUL13	BLUEGILL	102	26	134.4
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	127	42	105.0
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	110	22	88.5
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	103	16	80.1
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	112	28	106.2
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	82	12	127.9
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	85	14	132.5
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	88	14	118.1
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	97	23	140.5
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	88	17	143.4
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	101	29	154.9
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	91	17	128.3
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	91	16	120.8
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	84	13	127.9
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	87	16	140.2
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	91	17	128.3
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	92	21	152.9
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	94	18	122.0
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	89	16	130.0
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	85	14	132.5
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	86	14	127.4
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	91	16	120.8
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	98	23	135.8
LOWER LOCKPORT POOL	302B	15JUL13	BLUEGILL	86	12	109.2
LOWER LOCKPORT POOL	302B	14AUG13	BLUEGILL	105	23	108.0
LOWER LOCKPORT POOL	302A	26AUG13	BLUEGILL	113	29	106.8
LOWER LOCKPORT POOL	302A	26AUG13	BLUEGILL	106	27	122.9
LOWER LOCKPORT POOL	302A	26AUG13	BLUEGILL	99	22	125.6
LOWER LOCKPORT POOL	302B	26AUG13	BLUEGILL	124	40	108.2
LOWER LOCKPORT POOL	302B	26AUG13	BLUEGILL	108	21	89.8
LOWER LOCKPORT POOL	302B	26AUG13	BLUEGILL	95	20	130.9
LOWER LOCKPORT POOL	302B	26AUG13	BLUEGILL	101	23	122.9
LOWER LOCKPORT POOL	302B	26AUG13	BLUEGILL	101	21	112.2
LOWER LOCKPORT POOL	302A	09SEP13	BLUEGILL	101	23	122.9
LOWER LOCKPORT POOL	302A	09SEP13	BLUEGILL	103	26	130.1
LOWER LOCKPORT POOL	302A	09SEP13	BLUEGILL	112	30	113.7
LOWER LOCKPORT POOL	302A	09SEP13	BLUEGILL	96	18	113.8
LOWER LOCKPORT POOL	302B	09SEP13	BLUEGILL	107	28	123.5
LOWER LOCKPORT POOL	302B	09SEP13	BLUEGILL	108	30	128.3
LOWER LOCKPORT POOL	302A	23SEP13	BLUEGILL	116	27	91.1
LOWER LOCKPORT POOL	302A	23SEP13	BLUEGILL	117	38	124.6
LOWER LOCKPORT POOL	302A	23SEP13	BLUEGILL	101	19	101.5
LOWER LOCKPORT POOL	302A	23SEP13	BLUEGILL	100	20	110.4
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	128	40	97.4
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	108	23	98.4
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	112	26	98.6
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	90	14	109.6
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	110	24	96.6
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	94	16	108.4
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	98	18	106.3
LOWER LOCKPORT POOL	302B	23SEP13	BLUEGILL	108	21	89.8
LOWER LOCKPORT POOL	302A	20MAY13	LARGEMOUTH BASS	258	220	91.8
LOWER LOCKPORT POOL	302A	20MAY13	LARGEMOUTH BASS	226	180	114.6
LOWER LOCKPORT POOL	302A	20MAY13	LARGEMOUTH BASS	350	680	107.2
LOWER LOCKPORT POOL	302A	01JUL13	LARGEMOUTH BASS	273	280	97.6
LOWER LOCKPORT POOL	302A	26AUG13	LARGEMOUTH BASS	263	280	109.9
LOWER LOCKPORT POOL	302B	26AUG13	LARGEMOUTH BASS	151	45	103.8
LOWER LOCKPORT POOL	301	23SEP13	LARGEMOUTH BASS	151	45	103.8
LOWER LOCKPORT POOL	302	23SEP13	LARGEMOUTH BASS	150	46	108.4
LOWER LOCKPORT POOL	302	23SEP13	LARGEMOUTH BASS	181	70	90.5
LOWER LOCKPORT POOL	302A	23SEP13	LARGEMOUTH BASS	167	60	100.3
LOWER LOCKPORT POOL	302B	20MAY13	FRESHWATER DRUM	415	1060	113.8
LOWER LOCKPORT POOL	302B	20MAY13	FRESHWATER DRUM	342	580	115.7
LOWER LOCKPORT POOL	302A	14AUG13	FRESHWATER DRUM	348	500	94.4
BRANDON POOL	303	20MAY13	GIZZARD SHAD	252	130	75.4
BRANDON POOL	303	20MAY13	GIZZARD SHAD	223	105	89.8
BRANDON POOL	305	20MAY13	GIZZARD SHAD	260	190	99.8
BRANDON POOL	305	20MAY13	GIZZARD SHAD	283	270	108.4
BRANDON POOL	305	20MAY13	GIZZARD SHAD	298	310	105.7
BRANDON POOL	305	20MAY13	GIZZARD SHAD	238	150	104.3
BRANDON POOL	305	20MAY13	GIZZARD SHAD	317	300	84.1
BRANDON POOL	305	20MAY13	GIZZARD SHAD	312	270	79.6
BRANDON POOL	305	20MAY13	GIZZARD SHAD	258	160	86.2
BRANDON POOL	305	20MAY13	GIZZARD SHAD	275	190	83.6
BRANDON POOL	305	20MAY13	GIZZARD SHAD	290	240	89.2

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	305	20MAY13	GIZZARD SHAD	200	80	96.6
BRANDON POOL	306	20MAY13	GIZZARD SHAD	345	460	98.6
BRANDON POOL	306	20MAY13	GIZZARD SHAD	262	195	100.0
BRANDON POOL	307	20MAY13	GIZZARD SHAD	227	110	88.9
BRANDON POOL	307	20MAY13	GIZZARD SHAD	197	82	103.8
BRANDON POOL	307	20MAY13	GIZZARD SHAD	226	108	88.5
BRANDON POOL	307	20MAY13	GIZZARD SHAD	194	91	121.0
BRANDON POOL	307	20MAY13	GIZZARD SHAD	180	51	86.0
BRANDON POOL	307	20MAY13	GIZZARD SHAD	193	64	86.5
BRANDON POOL	307	20MAY13	GIZZARD SHAD	192	85	116.8
BRANDON POOL	307	20MAY13	GIZZARD SHAD	184	60	94.3
BRANDON POOL	305	04JUN13	GIZZARD SHAD	351	460	93.4
BRANDON POOL	303	01JUL13	GIZZARD SHAD	392	550	78.6
BRANDON POOL	304	01JUL13	GIZZARD SHAD	268	147	70.2
BRANDON POOL	305	01JUL13	GIZZARD SHAD	182	57	92.8
BRANDON POOL	305	01JUL13	GIZZARD SHAD	295	265	93.3
BRANDON POOL	305	01JUL13	GIZZARD SHAD	238	125	86.9
BRANDON POOL	305	01JUL13	GIZZARD SHAD	183	60	96.0
BRANDON POOL	305	01JUL13	GIZZARD SHAD	209	86	90.3
BRANDON POOL	306	01JUL13	GIZZARD SHAD	367	360	63.4
BRANDON POOL	306	01JUL13	GIZZARD SHAD	347	385	81.0
BRANDON POOL	306	01JUL13	GIZZARD SHAD	244	135	86.8
BRANDON POOL	306	01JUL13	GIZZARD SHAD	271	175	80.6
BRANDON POOL	306	01JUL13	GIZZARD SHAD	187	69	103.1
BRANDON POOL	303	15JUL13	GIZZARD SHAD	331	325	79.4
BRANDON POOL	303	15JUL13	GIZZARD SHAD	236	125	89.3
BRANDON POOL	307	15JUL13	GIZZARD SHAD	280	205	85.2
BRANDON POOL	307	15JUL13	GIZZARD SHAD	283	220	88.4
BRANDON POOL	307	15JUL13	GIZZARD SHAD	267	200	96.6
BRANDON POOL	303	14AUG13	GIZZARD SHAD	234	140	102.7
BRANDON POOL	303	14AUG13	GIZZARD SHAD	210	98	101.3
BRANDON POOL	303	14AUG13	GIZZARD SHAD	311	290	86.4
BRANDON POOL	303	14AUG13	GIZZARD SHAD	220	130	116.0
BRANDON POOL	303	14AUG13	GIZZARD SHAD	225	100	83.1
BRANDON POOL	305	14AUG13	GIZZARD SHAD	252	170	98.6
BRANDON POOL	305	14AUG13	GIZZARD SHAD	207	105	113.6
BRANDON POOL	305	14AUG13	GIZZARD SHAD	302	280	91.5
BRANDON POOL	306	14AUG13	GIZZARD SHAD	270	220	102.6
BRANDON POOL	306	14AUG13	GIZZARD SHAD	240	160	108.4
BRANDON POOL	306	14AUG13	GIZZARD SHAD	224	120	101.1
BRANDON POOL	306	14AUG13	GIZZARD SHAD	205	110	122.8
BRANDON POOL	307	14AUG13	GIZZARD SHAD	252	205	118.9
BRANDON POOL	307	14AUG13	GIZZARD SHAD	193	89	120.3
BRANDON POOL	307	14AUG13	GIZZARD SHAD	198	81	100.9
BRANDON POOL	307	14AUG13	GIZZARD SHAD	267	215	103.8
BRANDON POOL	307	14AUG13	GIZZARD SHAD	218	90	82.7
BRANDON POOL	307	14AUG13	GIZZARD SHAD	180	60	101.1
BRANDON POOL	307	14AUG13	GIZZARD SHAD	228	145	115.5
BRANDON POOL	307	14AUG13	GIZZARD SHAD	196	75	96.5
BRANDON POOL	307	14AUG13	GIZZARD SHAD	207	90	97.4
BRANDON POOL	303	26AUG13	GIZZARD SHAD	295	240	84.5
BRANDON POOL	305	26AUG13	GIZZARD SHAD	230	150	116.3
BRANDON POOL	305	26AUG13	GIZZARD SHAD	295	270	95.1
BRANDON POOL	305	26AUG13	GIZZARD SHAD	224	131	110.4
BRANDON POOL	305	26AUG13	GIZZARD SHAD	181	55	91.1
BRANDON POOL	305	26AUG13	GIZZARD SHAD	211	89	90.7
BRANDON POOL	305	26AUG13	GIZZARD SHAD	315	335	95.8
BRANDON POOL	305	26AUG13	GIZZARD SHAD	221	114	100.3
BRANDON POOL	305	26AUG13	GIZZARD SHAD	209	110	115.5
BRANDON POOL	305	26AUG13	GIZZARD SHAD	196	82	105.5
BRANDON POOL	305	26AUG13	GIZZARD SHAD	181	58	96.1
BRANDON POOL	305	26AUG13	GIZZARD SHAD	228	135	107.6
BRANDON POOL	305	26AUG13	GIZZARD SHAD	226	110	90.1
BRANDON POOL	305	26AUG13	GIZZARD SHAD	198	78	97.2
BRANDON POOL	306	26AUG13	GIZZARD SHAD	223	120	102.6
BRANDON POOL	306	26AUG13	GIZZARD SHAD	225	110	91.4
BRANDON POOL	306	26AUG13	GIZZARD SHAD	254	190	107.5
BRANDON POOL	306	26AUG13	GIZZARD SHAD	242	145	95.6
BRANDON POOL	307	26AUG13	GIZZARD SHAD	242	160	105.5
BRANDON POOL	307	26AUG13	GIZZARD SHAD	232	130	98.0
BRANDON POOL	307	26AUG13	GIZZARD SHAD	207	80	86.6
BRANDON POOL	307	26AUG13	GIZZARD SHAD	292	240	87.3
BRANDON POOL	307	26AUG13	GIZZARD SHAD	268	190	90.7
BRANDON POOL	307	26AUG13	GIZZARD SHAD	224	120	101.1
BRANDON POOL	307	26AUG13	GIZZARD SHAD	202	65	76.0
BRANDON POOL	307	26AUG13	GIZZARD SHAD	193	70	94.6
BRANDON POOL	307	26AUG13	GIZZARD SHAD	242	155	102.2
BRANDON POOL	307	26AUG13	GIZZARD SHAD	204	105	119.0
BRANDON POOL	307	26AUG13	GIZZARD SHAD	186	65	98.8
BRANDON POOL	309	27AUG13	GIZZARD SHAD	273	220	99.0
BRANDON POOL	309	27AUG13	GIZZARD SHAD	288	280	106.4
BRANDON POOL	309	27AUG13	GIZZARD SHAD	296	320	111.5
BRANDON POOL	309	27AUG13	GIZZARD SHAD	268	240	114.6
BRANDON POOL	309	27AUG13	GIZZARD SHAD	242	160	105.5
BRANDON POOL	303	09SEP13	GIZZARD SHAD	318	320	88.8
BRANDON POOL	303	09SEP13	GIZZARD SHAD	280	230	95.6

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	303	09SEP13	GIZZARD SHAD	303	290	93.8
BRANDON POOL	305	09SEP13	GIZZARD SHAD	198	77	96.0
BRANDON POOL	305	09SEP13	GIZZARD SHAD	331	365	89.2
BRANDON POOL	305	09SEP13	GIZZARD SHAD	288	240	91.2
BRANDON POOL	305	09SEP13	GIZZARD SHAD	270	210	97.9
BRANDON POOL	305	09SEP13	GIZZARD SHAD	202	72	84.2
BRANDON POOL	306	09SEP13	GIZZARD SHAD	285	220	86.4
BRANDON POOL	306	09SEP13	GIZZARD SHAD	232	110	82.9
BRANDON POOL	306	09SEP13	GIZZARD SHAD	273	200	90.0
BRANDON POOL	306	09SEP13	GIZZARD SHAD	210	80	82.7
BRANDON POOL	306	09SEP13	GIZZARD SHAD	217	102	95.1
BRANDON POOL	306	09SEP13	GIZZARD SHAD	187	60	89.6
BRANDON POOL	307	09SEP13	GIZZARD SHAD	262	210	107.7
BRANDON POOL	307	09SEP13	GIZZARD SHAD	228	125	99.6
BRANDON POOL	307	09SEP13	GIZZARD SHAD	197	67	84.8
BRANDON POOL	307	09SEP13	GIZZARD SHAD	299	285	96.2
BRANDON POOL	307	09SEP13	GIZZARD SHAD	227	125	101.0
BRANDON POOL	307	09SEP13	GIZZARD SHAD	203	80	92.1
BRANDON POOL	307	09SEP13	GIZZARD SHAD	188	66	96.9
BRANDON POOL	307	09SEP13	GIZZARD SHAD	183	65	104.0
BRANDON POOL	307	09SEP13	GIZZARD SHAD	305	260	82.4
BRANDON POOL	307	09SEP13	GIZZARD SHAD	246	155	97.1
BRANDON POOL	307	09SEP13	GIZZARD SHAD	189	64	92.4
BRANDON POOL	309	09SEP13	GIZZARD SHAD	342	405	89.2
BRANDON POOL	309	09SEP13	GIZZARD SHAD	301	260	85.9
BRANDON POOL	303	23SEP13	GIZZARD SHAD	242	145	95.6
BRANDON POOL	303	23SEP13	GIZZARD SHAD	270	192	89.5
BRANDON POOL	303	23SEP13	GIZZARD SHAD	189	66	95.3
BRANDON POOL	303	23SEP13	GIZZARD SHAD	307	310	96.2
BRANDON POOL	305	23SEP13	GIZZARD SHAD	278	230	97.7
BRANDON POOL	305	23SEP13	GIZZARD SHAD	196	81	104.2
BRANDON POOL	305	23SEP13	GIZZARD SHAD	210	95	98.2
BRANDON POOL	305	23SEP13	GIZZARD SHAD	180	55	92.7
BRANDON POOL	305	23SEP13	GIZZARD SHAD	184	61	95.9
BRANDON POOL	305	23SEP13	GIZZARD SHAD	197	70	88.6
BRANDON POOL	305	23SEP13	GIZZARD SHAD	203	81	93.3
BRANDON POOL	306	23SEP13	GIZZARD SHAD	204	84	95.2
BRANDON POOL	309	24SEP13	GIZZARD SHAD	213	99	97.9
BRANDON POOL	304	01JUL13	NORTHERN PIKE	178	43	126.8
BRANDON POOL	304	20MAY13	COMMON CARP	468	1450	100.8
BRANDON POOL	304	20MAY13	COMMON CARP	740	5900	107.6
BRANDON POOL	304	20MAY13	COMMON CARP	754	6600	113.9
BRANDON POOL	304	20MAY13	COMMON CARP	559	2010	83.1
BRANDON POOL	305	20MAY13	COMMON CARP	538	2480	114.7
BRANDON POOL	309	21MAY13	COMMON CARP	689	5250	117.9
BRANDON POOL	303	04JUN13	COMMON CARP	532	1900	90.8
BRANDON POOL	304	04JUN13	COMMON CARP	622	3100	93.9
BRANDON POOL	304	04JUN13	COMMON CARP	680	3620	84.5
BRANDON POOL	304	04JUN13	COMMON CARP	595	3000	103.4
BRANDON POOL	305	04JUN13	COMMON CARP	628	2810	82.7
BRANDON POOL	306	04JUN13	COMMON CARP	490	1400	85.1
BRANDON POOL	304	01JUL13	COMMON CARP	560	2550	104.9
BRANDON POOL	304	01JUL13	COMMON CARP	502	1960	111.0
BRANDON POOL	304	01JUL13	COMMON CARP	522	2180	110.1
BRANDON POOL	304	01JUL13	COMMON CARP	460	1340	97.9
BRANDON POOL	304	01JUL13	COMMON CARP	497	1680	97.9
BRANDON POOL	304	01JUL13	COMMON CARP	418	1105	106.8
BRANDON POOL	304	01JUL13	COMMON CARP	446	1340	107.2
BRANDON POOL	305	01JUL13	COMMON CARP	537	2240	104.2
BRANDON POOL	306	01JUL13	COMMON CARP	570	2810	109.8
BRANDON POOL	306	01JUL13	COMMON CARP	592	3400	118.9
BRANDON POOL	306	01JUL13	COMMON CARP	602	3620	120.6
BRANDON POOL	307	01JUL13	COMMON CARP	539	2045	94.1
BRANDON POOL	309	02JUL13	COMMON CARP	508	1870	102.3
BRANDON POOL	309	02JUL13	COMMON CARP	571	2400	93.3
BRANDON POOL	306	15JUL13	COMMON CARP	260	220	85.1
BRANDON POOL	306	15JUL13	COMMON CARP	212	125	87.7
BRANDON POOL	306	15JUL13	COMMON CARP	698	4900	106.0
BRANDON POOL	307	15JUL13	COMMON CARP	778	6100	96.1
BRANDON POOL	309	15JUL13	COMMON CARP	522	1885	95.2
BRANDON POOL	303	14AUG13	COMMON CARP	464	1300	92.6
BRANDON POOL	304	14AUG13	COMMON CARP	590	3290	116.2
BRANDON POOL	303	26AUG13	COMMON CARP	352	680	108.5
BRANDON POOL	304	26AUG13	COMMON CARP	650	4050	107.8
BRANDON POOL	307	26AUG13	COMMON CARP	640	4050	112.8
BRANDON POOL	304	09SEP13	COMMON CARP	431	1250	110.5
BRANDON POOL	306	09SEP13	COMMON CARP	452	1140	87.7
BRANDON POOL	309	09SEP13	COMMON CARP	482	1550	98.8
BRANDON POOL	309	09SEP13	COMMON CARP	448	1290	101.8
BRANDON POOL	305	23SEP13	COMMON CARP	560	2350	96.7
BRANDON POOL	304	04JUN13	WHITE SUCKER	331	460	102.2
BRANDON POOL	304	23SEP13	WHITE SUCKER	237	140	83.1
BRANDON POOL	304	23SEP13	WHITE SUCKER	221	135	98.4
BRANDON POOL	304	23SEP13	WHITE SUCKER	356	500	89.7
BRANDON POOL	304	23SEP13	WHITE SUCKER	223	125	88.7
BRANDON POOL	304	23SEP13	WHITE SUCKER	160	44	82.9

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	303	20MAY13	YELLOW BULLHEAD	286	370	100.7
BRANDON POOL	303	20MAY13	YELLOW BULLHEAD	177	94	120.7
BRANDON POOL	303	20MAY13	YELLOW BULLHEAD	236	220	111.5
BRANDON POOL	303	20MAY13	YELLOW BULLHEAD	162	65	111.1
BRANDON POOL	303	20MAY13	YELLOW BULLHEAD	116	25	125.8
BRANDON POOL	303	20MAY13	YELLOW BULLHEAD	95	13	124.7
BRANDON POOL	304	20MAY13	YELLOW BULLHEAD	190	100	102.1
BRANDON POOL	304	20MAY13	YELLOW BULLHEAD	226	185	107.8
BRANDON POOL	303	04JUN13	YELLOW BULLHEAD	109	17	104.6
BRANDON POOL	303	04JUN13	YELLOW BULLHEAD	151	46	98.7
BRANDON POOL	304	04JUN13	YELLOW BULLHEAD	202	145	121.5
BRANDON POOL	304	01JUL13	YELLOW BULLHEAD	256	250	97.4
BRANDON POOL	305	01JUL13	YELLOW BULLHEAD	203	130	107.2
BRANDON POOL	305	01JUL13	YELLOW BULLHEAD	163	70	117.3
BRANDON POOL	306	01JUL13	YELLOW BULLHEAD	127	32	120.1
BRANDON POOL	303	15JUL13	YELLOW BULLHEAD	142	44	115.1
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	190	105	107.2
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	290	385	100.2
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	196	120	110.8
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	202	125	104.7
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	172	80	112.7
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	154	46	92.6
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	148	45	103.0
BRANDON POOL	304	15JUL13	YELLOW BULLHEAD	152	44	92.4
BRANDON POOL	306	15JUL13	YELLOW BULLHEAD	232	210	112.5
BRANDON POOL	307	15JUL13	YELLOW BULLHEAD	169	67	99.9
BRANDON POOL	303	14AUG13	YELLOW BULLHEAD	179	80	99.1
BRANDON POOL	304	14AUG13	YELLOW BULLHEAD	290	400	104.1
BRANDON POOL	303	26AUG13	YELLOW BULLHEAD	150	53	116.2
BRANDON POOL	304	26AUG13	YELLOW BULLHEAD	144	41	102.6
BRANDON POOL	304	26AUG13	YELLOW BULLHEAD	136	39	117.3
BRANDON POOL	304	26AUG13	YELLOW BULLHEAD	155	51	100.6
BRANDON POOL	304	09SEP13	YELLOW BULLHEAD	192	95	93.8
BRANDON POOL	304	09SEP13	YELLOW BULLHEAD	162	59	100.9
BRANDON POOL	305	09SEP13	YELLOW BULLHEAD	168	66	100.3
BRANDON POOL	306	09SEP13	YELLOW BULLHEAD	172	72	101.4
BRANDON POOL	307	09SEP13	YELLOW BULLHEAD	192	110	108.6
BRANDON POOL	304	23SEP13	YELLOW BULLHEAD	184	95	107.6
BRANDON POOL	304	23SEP13	YELLOW BULLHEAD	195	115	108.0
BRANDON POOL	304	23SEP13	YELLOW BULLHEAD	138	43	123.4
BRANDON POOL	304	23SEP13	YELLOW BULLHEAD	160	66	117.4
BRANDON POOL	304	23SEP13	YELLOW BULLHEAD	130	30	104.4
BRANDON POOL	304	23SEP13	YELLOW BULLHEAD	211	135	98.2
BRANDON POOL	304	23SEP13	YELLOW BULLHEAD	148	45	103.0
BRANDON POOL	304	20MAY13	CHANNEL CATFISH	487	1150	101.9
BRANDON POOL	304	20MAY13	CHANNEL CATFISH	452	1190	134.7
BRANDON POOL	304	20MAY13	CHANNEL CATFISH	468	1370	138.3
BRANDON POOL	304	20MAY13	CHANNEL CATFISH	537	1590	102.1
BRANDON POOL	304	20MAY13	CHANNEL CATFISH	491	1510	130.2
BRANDON POOL	306	20MAY13	CHANNEL CATFISH	486	1410	125.7
BRANDON POOL	304	04JUN13	CHANNEL CATFISH	528	1780	120.8
BRANDON POOL	304	04JUN13	CHANNEL CATFISH	482	1240	113.6
BRANDON POOL	306	04JUN13	CHANNEL CATFISH	391	760	138.7
BRANDON POOL	306	04JUN13	CHANNEL CATFISH	423	910	128.2
BRANDON POOL	304	01JUL13	CHANNEL CATFISH	531	1300	86.6
BRANDON POOL	304	01JUL13	CHANNEL CATFISH	412	650	99.9
BRANDON POOL	306	01JUL13	CHANNEL CATFISH	419	740	107.6
BRANDON POOL	306	01JUL13	CHANNEL CATFISH	415	800	120.0
BRANDON POOL	304	15JUL13	CHANNEL CATFISH	545	1750	107.0
BRANDON POOL	304	15JUL13	CHANNEL CATFISH	487	1000	88.6
BRANDON POOL	307	15JUL13	CHANNEL CATFISH	540	1745	110.0
BRANDON POOL	307	14AUG13	CHANNEL CATFISH	492	910	77.9
BRANDON POOL	307	14AUG13	CHANNEL CATFISH	427	760	103.8
BRANDON POOL	304	26AUG13	CHANNEL CATFISH	493	1080	91.9
BRANDON POOL	304	26AUG13	CHANNEL CATFISH	505	1450	114.0
BRANDON POOL	304	26AUG13	CHANNEL CATFISH	520	1020	72.8
BRANDON POOL	304	26AUG13	CHANNEL CATFISH	461	1200	127.3
BRANDON POOL	305	26AUG13	CHANNEL CATFISH	492	1150	98.5
BRANDON POOL	303	09SEP13	CHANNEL CATFISH	409	650	102.3
BRANDON POOL	304	09SEP13	CHANNEL CATFISH	485	1080	97.0
BRANDON POOL	304	09SEP13	CHANNEL CATFISH	428	890	120.6
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	565	1750	95.0
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	538	1540	98.2
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	490	1310	113.7
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	445	835	99.5
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	494	1410	119.1
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	488	1210	106.4
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	466	940	96.3
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	445	570	67.9
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	545	1590	97.2
BRANDON POOL	304	23SEP13	CHANNEL CATFISH	460	1210	129.3
BRANDON POOL	305	23SEP13	CHANNEL CATFISH	433	670	87.4
BRANDON POOL	305	20MAY13	WHITE BASS	288	260	80.1
BRANDON POOL	304	01JUL13	YELLOW BASS	93	11	103.8
BRANDON POOL	304	15JUL13	ROCK BASS	109	26	95.3
BRANDON POOL	304	26AUG13	ROCK BASS	131	41	85.4

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	304	23SEP13	ROCK BASS	145	60	91.4
BRANDON POOL	304	23SEP13	ROCK BASS	127	41	93.9
BRANDON POOL	303	20MAY13	GREEN SUNFISH	80	13	134.1
BRANDON POOL	303	20MAY13	GREEN SUNFISH	121	38	108.7
BRANDON POOL	304	20MAY13	GREEN SUNFISH	88	17	130.5
BRANDON POOL	304	20MAY13	GREEN SUNFISH	82	12	114.7
BRANDON POOL	304	20MAY13	GREEN SUNFISH	75	8	100.8
BRANDON POOL	307	20MAY13	GREEN SUNFISH	137	57	110.9
BRANDON POOL	303	04JUN13	GREEN SUNFISH	96	26	152.4
BRANDON POOL	303	04JUN13	GREEN SUNFISH	87	16	127.3
BRANDON POOL	303	04JUN13	GREEN SUNFISH	115	41	137.3
BRANDON POOL	304	04JUN13	GREEN SUNFISH	102	29	140.8
BRANDON POOL	304	04JUN13	GREEN SUNFISH	93	21	135.8
BRANDON POOL	305	04JUN13	GREEN SUNFISH	95	21	127.1
BRANDON POOL	305	04JUN13	GREEN SUNFISH	101	26	130.2
BRANDON POOL	305	04JUN13	GREEN SUNFISH	104	25	114.3
BRANDON POOL	305	04JUN13	GREEN SUNFISH	108	27	109.8
BRANDON POOL	305	04JUN13	GREEN SUNFISH	63	5	108.2
BRANDON POOL	305	04JUN13	GREEN SUNFISH	72	8	114.4
BRANDON POOL	305	04JUN13	GREEN SUNFISH	60	5	125.9
BRANDON POOL	306	04JUN13	GREEN SUNFISH	92	19	127.1
BRANDON POOL	307	05JUN13	GREEN SUNFISH	119	40	120.4
BRANDON POOL	307	05JUN13	GREEN SUNFISH	126	44	111.0
BRANDON POOL	307	05JUN13	GREEN SUNFISH	63	6	129.8
BRANDON POOL	307	05JUN13	GREEN SUNFISH	64	5	103.0
BRANDON POOL	307	05JUN13	GREEN SUNFISH	82	13	124.2
BRANDON POOL	307	05JUN13	GREEN SUNFISH	72	10	143.0
BRANDON POOL	307	05JUN13	GREEN SUNFISH	100	27	139.4
BRANDON POOL	307	05JUN13	GREEN SUNFISH	63	6	129.8
BRANDON POOL	303	01JUL13	GREEN SUNFISH	118	38	117.5
BRANDON POOL	303	01JUL13	GREEN SUNFISH	119	41	123.5
BRANDON POOL	303	01JUL13	GREEN SUNFISH	105	30	133.2
BRANDON POOL	303	01JUL13	GREEN SUNFISH	81	12	119.1
BRANDON POOL	306	01JUL13	GREEN SUNFISH	61	5	119.6
BRANDON POOL	307	01JUL13	GREEN SUNFISH	79	13	139.4
BRANDON POOL	307	01JUL13	GREEN SUNFISH	63	6	129.8
BRANDON POOL	307	01JUL13	GREEN SUNFISH	64	6	123.6
BRANDON POOL	304	15JUL13	GREEN SUNFISH	112	33	119.9
BRANDON POOL	305	15JUL13	GREEN SUNFISH	85	16	136.8
BRANDON POOL	305	15JUL13	GREEN SUNFISH	66	6	112.4
BRANDON POOL	306	15JUL13	GREEN SUNFISH	130	64	146.5
BRANDON POOL	306	15JUL13	GREEN SUNFISH	75	10	126.0
BRANDON POOL	306	15JUL13	GREEN SUNFISH	62	5	113.7
BRANDON POOL	306	15JUL13	GREEN SUNFISH	105	34	150.9
BRANDON POOL	306	15JUL13	GREEN SUNFISH	62	6	136.4
BRANDON POOL	307	15JUL13	GREEN SUNFISH	70	8	124.9
BRANDON POOL	307	15JUL13	GREEN SUNFISH	68	7	119.5
BRANDON POOL	307	15JUL13	GREEN SUNFISH	75	9	113.4
BRANDON POOL	307	15JUL13	GREEN SUNFISH	76	11	133.0
BRANDON POOL	307	15JUL13	GREEN SUNFISH	66	6	112.4
BRANDON POOL	303	14AUG13	GREEN SUNFISH	125	43	111.2
BRANDON POOL	304	14AUG13	GREEN SUNFISH	120	45	132.0
BRANDON POOL	304	14AUG13	GREEN SUNFISH	112	39	141.7
BRANDON POOL	304	14AUG13	GREEN SUNFISH	103	26	122.5
BRANDON POOL	304	14AUG13	GREEN SUNFISH	102	26	126.3
BRANDON POOL	304	14AUG13	GREEN SUNFISH	99	25	133.2
BRANDON POOL	304	14AUG13	GREEN SUNFISH	64	6	123.6
BRANDON POOL	305	14AUG13	GREEN SUNFISH	88	17	130.5
BRANDON POOL	305	14AUG13	GREEN SUNFISH	91	19	131.5
BRANDON POOL	305	14AUG13	GREEN SUNFISH	79	11	118.0
BRANDON POOL	306	14AUG13	GREEN SUNFISH	135	60	122.2
BRANDON POOL	306	14AUG13	GREEN SUNFISH	71	8	119.5
BRANDON POOL	307	14AUG13	GREEN SUNFISH	61	5	119.6
BRANDON POOL	307	14AUG13	GREEN SUNFISH	95	19	115.0
BRANDON POOL	307	14AUG13	GREEN SUNFISH	100	22	113.6
BRANDON POOL	307	26AUG13	GREEN SUNFISH	66	7	131.1
BRANDON POOL	307	26AUG13	GREEN SUNFISH	60	5	125.9
BRANDON POOL	307	26AUG13	GREEN SUNFISH	75	11	138.6
BRANDON POOL	303	26AUG13	GREEN SUNFISH	63	5	108.2
BRANDON POOL	303	26AUG13	GREEN SUNFISH	102	29	140.8
BRANDON POOL	303	26AUG13	GREEN SUNFISH	114	33	113.5
BRANDON POOL	303	26AUG13	GREEN SUNFISH	99	23	122.5
BRANDON POOL	303	26AUG13	GREEN SUNFISH	85	15	128.2
BRANDON POOL	303	26AUG13	GREEN SUNFISH	80	11	113.5
BRANDON POOL	303	26AUG13	GREEN SUNFISH	100	23	118.8
BRANDON POOL	303	26AUG13	GREEN SUNFISH	86	15	123.7
BRANDON POOL	303	26AUG13	GREEN SUNFISH	99	22	117.2
BRANDON POOL	303	26AUG13	GREEN SUNFISH	73	9	123.3
BRANDON POOL	303	26AUG13	GREEN SUNFISH	76	11	133.0
BRANDON POOL	304	26AUG13	GREEN SUNFISH	99	25	133.2
BRANDON POOL	304	26AUG13	GREEN SUNFISH	108	30	122.0
BRANDON POOL	304	26AUG13	GREEN SUNFISH	100	26	134.3
BRANDON POOL	304	26AUG13	GREEN SUNFISH	118	36	111.3
BRANDON POOL	305	26AUG13	GREEN SUNFISH	145	62	101.2
BRANDON POOL	305	26AUG13	GREEN SUNFISH	115	34	113.8
BRANDON POOL	305	26AUG13	GREEN SUNFISH	84	12	106.4

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	305	26AUG13	GREEN SUNFISH	99	21	111.9
BRANDON POOL	305	26AUG13	GREEN SUNFISH	80	12	123.8
BRANDON POOL	305	26AUG13	GREEN SUNFISH	70	8	124.9
BRANDON POOL	305	26AUG13	GREEN SUNFISH	130	52	119.0
BRANDON POOL	305	26AUG13	GREEN SUNFISH	122	46	128.2
BRANDON POOL	305	26AUG13	GREEN SUNFISH	74	9	118.2
BRANDON POOL	305	26AUG13	GREEN SUNFISH	75	9	113.4
BRANDON POOL	306	26AUG13	GREEN SUNFISH	103	27	127.2
BRANDON POOL	307	26AUG13	GREEN SUNFISH	163	115	130.5
BRANDON POOL	307	26AUG13	GREEN SUNFISH	131	51	114.0
BRANDON POOL	307	26AUG13	GREEN SUNFISH	94	19	118.9
BRANDON POOL	307	26AUG13	GREEN SUNFISH	73	10	137.0
BRANDON POOL	307	26AUG13	GREEN SUNFISH	131	58	129.6
BRANDON POOL	307	26AUG13	GREEN SUNFISH	120	46	135.0
BRANDON POOL	307	26AUG13	GREEN SUNFISH	79	9	96.5
BRANDON POOL	307	26AUG13	GREEN SUNFISH	101	26	130.2
BRANDON POOL	307	26AUG13	GREEN SUNFISH	65	6	117.8
BRANDON POOL	307	26AUG13	GREEN SUNFISH	99	24	127.9
BRANDON POOL	307	26AUG13	GREEN SUNFISH	72	9	128.7
BRANDON POOL	307	26AUG13	GREEN SUNFISH	73	10	137.0
BRANDON POOL	304	09SEP13	GREEN SUNFISH	70	8	124.9
BRANDON POOL	305	09SEP13	GREEN SUNFISH	124	40	106.0
BRANDON POOL	305	09SEP13	GREEN SUNFISH	72	7	100.1
BRANDON POOL	305	09SEP13	GREEN SUNFISH	72	8	114.4
BRANDON POOL	305	09SEP13	GREEN SUNFISH	66	7	131.1
BRANDON POOL	307	09SEP13	GREEN SUNFISH	62	6	136.4
BRANDON POOL	307	09SEP13	GREEN SUNFISH	105	22	97.7
BRANDON POOL	304	23SEP13	GREEN SUNFISH	159	79	96.8
BRANDON POOL	304	23SEP13	GREEN SUNFISH	119	42	126.5
BRANDON POOL	304	23SEP13	GREEN SUNFISH	120	42	123.2
BRANDON POOL	305	23SEP13	GREEN SUNFISH	127	45	110.7
BRANDON POOL	307	23SEP13	GREEN SUNFISH	87	13	103.4
BRANDON POOL	307	23SEP13	GREEN SUNFISH	70	8	124.9
BRANDON POOL	304	20MAY13	PUMPKINSEED	65	6	122.7
BRANDON POOL	304	20MAY13	PUMPKINSEED	67	7	129.7
BRANDON POOL	304	20MAY13	PUMPKINSEED	68	7	123.7
BRANDON POOL	305	20MAY13	PUMPKINSEED	60	4	106.0
BRANDON POOL	305	20MAY13	PUMPKINSEED	58	3	88.7
BRANDON POOL	305	20MAY13	PUMPKINSEED	58	3	88.7
BRANDON POOL	303	20MAY13	PUMPKINSEED	53	3	118.8
BRANDON POOL	304	20MAY13	PUMPKINSEED	81	11	110.3
BRANDON POOL	305	20MAY13	PUMPKINSEED	76	8	98.6
BRANDON POOL	305	20MAY13	PUMPKINSEED	58	4	118.3
BRANDON POOL	306	20MAY13	PUMPKINSEED	70	7	112.6
BRANDON POOL	307	20MAY13	PUMPKINSEED	79	10	108.7
BRANDON POOL	307	20MAY13	PUMPKINSEED	67	5	92.7
BRANDON POOL	307	20MAY13	PUMPKINSEED	56	4	132.5
BRANDON POOL	307	20MAY13	PUMPKINSEED	72	7	102.8
BRANDON POOL	304	04JUN13	PUMPKINSEED	66	7	136.2
BRANDON POOL	304	04JUN13	PUMPKINSEED	73	8	112.3
BRANDON POOL	304	04JUN13	PUMPKINSEED	82	12	115.7
BRANDON POOL	304	04JUN13	PUMPKINSEED	66	6	116.8
BRANDON POOL	304	04JUN13	PUMPKINSEED	66	6	116.8
BRANDON POOL	304	04JUN13	PUMPKINSEED	72	9	132.1
BRANDON POOL	304	04JUN13	PUMPKINSEED	72	9	132.1
BRANDON POOL	304	04JUN13	PUMPKINSEED	65	6	122.7
BRANDON POOL	305	04JUN13	PUMPKINSEED	65	5	102.2
BRANDON POOL	306	04JUN13	PUMPKINSEED	70	7	112.6
BRANDON POOL	306	04JUN13	PUMPKINSEED	73	9	126.4
BRANDON POOL	306	04JUN13	PUMPKINSEED	71	8	122.9
BRANDON POOL	306	04JUN13	PUMPKINSEED	80	11	114.8
BRANDON POOL	306	04JUN13	PUMPKINSEED	72	8	117.5
BRANDON POOL	307	05JUN13	PUMPKINSEED	62	5	119.1
BRANDON POOL	309	05JUN13	PUMPKINSEED	110	33	122.9
BRANDON POOL	304	01JUL13	PUMPKINSEED	89	20	147.9
BRANDON POOL	304	01JUL13	PUMPKINSEED	84	15	133.7
BRANDON POOL	304	01JUL13	PUMPKINSEED	77	11	130.0
BRANDON POOL	306	01JUL13	PUMPKINSEED	83	14	129.7
BRANDON POOL	304	01JUL13	PUMPKINSEED	71	7	107.5
BRANDON POOL	304	01JUL13	PUMPKINSEED	77	11	130.0
BRANDON POOL	304	01JUL13	PUMPKINSEED	106	33	138.5
BRANDON POOL	304	01JUL13	PUMPKINSEED	89	17	125.7
BRANDON POOL	304	01JUL13	PUMPKINSEED	83	13	120.5
BRANDON POOL	304	01JUL13	PUMPKINSEED	77	11	130.0
BRANDON POOL	304	01JUL13	PUMPKINSEED	86	16	132.2
BRANDON POOL	304	01JUL13	PUMPKINSEED	70	8	128.7
BRANDON POOL	305	01JUL13	PUMPKINSEED	117	33	100.6
BRANDON POOL	305	01JUL13	PUMPKINSEED	94	16	99.1
BRANDON POOL	306	01JUL13	PUMPKINSEED	145	62	94.4
BRANDON POOL	304	15JUL13	PUMPKINSEED	93	22	141.1
BRANDON POOL	304	15JUL13	PUMPKINSEED	86	17	140.4
BRANDON POOL	304	15JUL13	PUMPKINSEED	79	12	130.5
BRANDON POOL	304	15JUL13	PUMPKINSEED	92	20	132.8
BRANDON POOL	304	15JUL13	PUMPKINSEED	91	20	137.6
BRANDON POOL	304	15JUL13	PUMPKINSEED	103	28	129.0
BRANDON POOL	304	15JUL13	PUMPKINSEED	92	18	119.5

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	304	15JUL13	PUMPKINSEED	78	13	147.3
BRANDON POOL	304	15JUL13	PUMPKINSEED	95	22	131.7
BRANDON POOL	304	15JUL13	PUMPKINSEED	85	17	145.9
BRANDON POOL	304	15JUL13	PUMPKINSEED	91	20	137.6
BRANDON POOL	304	15JUL13	PUMPKINSEED	74	10	134.4
BRANDON POOL	304	15JUL13	PUMPKINSEED	90	21	149.7
BRANDON POOL	306	15JUL13	PUMPKINSEED	73	9	126.4
BRANDON POOL	307	15JUL13	PUMPKINSEED	89	19	140.5
BRANDON POOL	307	15JUL13	PUMPKINSEED	82	12	115.7
BRANDON POOL	304	15JUL13	PUMPKINSEED	103	23	106.0
BRANDON POOL	304	15JUL13	PUMPKINSEED	76	9	110.9
BRANDON POOL	305	15JUL13	PUMPKINSEED	94	22	136.3
BRANDON POOL	306	15JUL13	PUMPKINSEED	80	12	125.3
BRANDON POOL	306	15JUL13	PUMPKINSEED	113	39	133.1
BRANDON POOL	307	15JUL13	PUMPKINSEED	96	26	150.4
BRANDON POOL	306	14AUG13	PUMPKINSEED	105	30	129.9
BRANDON POOL	306	14AUG13	PUMPKINSEED	81	11	110.3
BRANDON POOL	305	14AUG13	PUMPKINSEED	102	22	104.6
BRANDON POOL	306	14AUG13	PUMPKINSEED	116	34	106.6
BRANDON POOL	306	14AUG13	PUMPKINSEED	99	20	104.8
BRANDON POOL	309	14AUG13	PUMPKINSEED	111	25	90.4
BRANDON POOL	309	14AUG13	PUMPKINSEED	107	23	93.7
BRANDON POOL	309	14AUG13	PUMPKINSEED	102	18	85.6
BRANDON POOL	309	14AUG13	PUMPKINSEED	98	18	97.4
BRANDON POOL	309	14AUG13	PUMPKINSEED	89	13	96.1
BRANDON POOL	309	14AUG13	PUMPKINSEED	72	7	102.8
BRANDON POOL	309	14AUG13	PUMPKINSEED	91	14	96.3
BRANDON POOL	306	26AUG13	PUMPKINSEED	109	31	118.9
BRANDON POOL	307	26AUG13	PUMPKINSEED	96	27	156.2
BRANDON POOL	303	26AUG13	PUMPKINSEED	108	29	114.6
BRANDON POOL	304	26AUG13	PUMPKINSEED	109	25	95.9
BRANDON POOL	305	26AUG13	PUMPKINSEED	113	38	129.7
BRANDON POOL	305	26AUG13	PUMPKINSEED	100	25	126.7
BRANDON POOL	305	26AUG13	PUMPKINSEED	110	32	119.2
BRANDON POOL	305	26AUG13	PUMPKINSEED	97	22	123.1
BRANDON POOL	305	26AUG13	PUMPKINSEED	112	31	108.9
BRANDON POOL	305	26AUG13	PUMPKINSEED	106	28	117.6
BRANDON POOL	305	26AUG13	PUMPKINSEED	105	28	121.2
BRANDON POOL	306	26AUG13	PUMPKINSEED	95	20	119.7
BRANDON POOL	306	26AUG13	PUMPKINSEED	112	37	130.0
BRANDON POOL	309	27AUG13	PUMPKINSEED	111	32	115.7
BRANDON POOL	307	09SEP13	PUMPKINSEED	93	19	121.8
BRANDON POOL	305	09SEP13	PUMPKINSEED	105	27	116.9
BRANDON POOL	305	09SEP13	PUMPKINSEED	92	18	119.5
BRANDON POOL	305	09SEP13	PUMPKINSEED	106	27	113.4
BRANDON POOL	305	09SEP13	PUMPKINSEED	106	26	109.2
BRANDON POOL	305	09SEP13	PUMPKINSEED	104	25	111.6
BRANDON POOL	305	09SEP13	PUMPKINSEED	103	25	115.2
BRANDON POOL	305	09SEP13	PUMPKINSEED	103	25	115.2
BRANDON POOL	306	09SEP13	PUMPKINSEED	124	40	101.1
BRANDON POOL	306	09SEP13	PUMPKINSEED	98	18	97.4
BRANDON POOL	306	09SEP13	PUMPKINSEED	107	31	126.3
BRANDON POOL	307	09SEP13	PUMPKINSEED	127	43	100.6
BRANDON POOL	307	09SEP13	PUMPKINSEED	107	23	93.7
BRANDON POOL	307	09SEP13	PUMPKINSEED	90	14	99.8
BRANDON POOL	305	23SEP13	PUMPKINSEED	135	51	97.9
BRANDON POOL	305	23SEP13	PUMPKINSEED	116	33	103.5
BRANDON POOL	305	23SEP13	PUMPKINSEED	112	28	98.4
BRANDON POOL	305	23SEP13	PUMPKINSEED	117	38	115.9
BRANDON POOL	305	23SEP13	PUMPKINSEED	104	26	116.1
BRANDON POOL	305	23SEP13	PUMPKINSEED	110	24	89.4
BRANDON POOL	305	23SEP13	PUMPKINSEED	98	18	97.4
BRANDON POOL	305	23SEP13	PUMPKINSEED	120	33	92.7
BRANDON POOL	305	23SEP13	PUMPKINSEED	119	34	98.2
BRANDON POOL	305	23SEP13	PUMPKINSEED	107	23	93.7
BRANDON POOL	305	23SEP13	PUMPKINSEED	124	38	96.0
BRANDON POOL	305	23SEP13	PUMPKINSEED	110	27	100.5
BRANDON POOL	305	23SEP13	PUMPKINSEED	102	21	99.9
BRANDON POOL	305	23SEP13	PUMPKINSEED	102	20	95.1
BRANDON POOL	305	23SEP13	PUMPKINSEED	117	38	115.9
BRANDON POOL	305	23SEP13	PUMPKINSEED	107	23	93.7
BRANDON POOL	306	23SEP13	PUMPKINSEED	105	27	116.9
BRANDON POOL	307	23SEP13	PUMPKINSEED	108	23	90.9
BRANDON POOL	304	20MAY13	BLUEGILL	108	22	94.1
BRANDON POOL	304	20MAY13	BLUEGILL	108	27	115.5
BRANDON POOL	304	20MAY13	BLUEGILL	116	29	97.9
BRANDON POOL	304	20MAY13	BLUEGILL	83	12	122.9
BRANDON POOL	304	20MAY13	BLUEGILL	92	15	109.2
BRANDON POOL	305	20MAY13	BLUEGILL	127	31	77.5
BRANDON POOL	306	20MAY13	BLUEGILL	86	14	127.4
BRANDON POOL	307	20MAY13	BLUEGILL	130	45	104.1
BRANDON POOL	303	04JUN13	BLUEGILL	92	16	116.5
BRANDON POOL	304	04JUN13	BLUEGILL	116	38	128.2
BRANDON POOL	304	04JUN13	BLUEGILL	154	90	118.7
BRANDON POOL	304	04JUN13	BLUEGILL	121	42	123.2
BRANDON POOL	304	04JUN13	BLUEGILL	82	11	117.3

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	304	04JUN13	BLUEGILL	92	16	116.5
BRANDON POOL	304	04JUN13	BLUEGILL	81	11	122.1
BRANDON POOL	304	04JUN13	BLUEGILL	85	12	113.6
BRANDON POOL	304	04JUN13	BLUEGILL	85	13	123.0
BRANDON POOL	304	04JUN13	BLUEGILL	80	10	115.7
BRANDON POOL	305	04JUN13	BLUEGILL	80	11	127.3
BRANDON POOL	306	04JUN13	BLUEGILL	104	23	111.5
BRANDON POOL	306	04JUN13	BLUEGILL	85	12	113.6
BRANDON POOL	306	04JUN13	BLUEGILL	93	18	126.4
BRANDON POOL	306	04JUN13	BLUEGILL	82	10	106.6
BRANDON POOL	306	04JUN13	BLUEGILL	89	14	113.7
BRANDON POOL	306	04JUN13	BLUEGILL	82	10	106.6
BRANDON POOL	306	04JUN13	BLUEGILL	85	12	113.6
BRANDON POOL	307	05JUN13	BLUEGILL	167	98	98.8
BRANDON POOL	307	05JUN13	BLUEGILL	164	106	113.5
BRANDON POOL	307	05JUN13	BLUEGILL	142	54	93.2
BRANDON POOL	307	05JUN13	BLUEGILL	85	13	123.0
BRANDON POOL	307	05JUN13	BLUEGILL	80	10	115.7
BRANDON POOL	307	05JUN13	BLUEGILL	87	15	131.4
BRANDON POOL	306	01JUL13	BLUEGILL	129	52	123.4
BRANDON POOL	304	01JUL13	BLUEGILL	102	24	124.1
BRANDON POOL	304	01JUL13	BLUEGILL	98	20	118.1
BRANDON POOL	304	01JUL13	BLUEGILL	100	24	132.5
BRANDON POOL	304	01JUL13	BLUEGILL	109	31	128.6
BRANDON POOL	309	02JUL13	BLUEGILL	120	39	117.6
BRANDON POOL	304	15JUL13	BLUEGILL	117	35	114.8
BRANDON POOL	304	15JUL13	BLUEGILL	97	18	109.9
BRANDON POOL	304	15JUL13	BLUEGILL	112	27	102.4
BRANDON POOL	304	15JUL13	BLUEGILL	105	23	108.0
BRANDON POOL	304	15JUL13	BLUEGILL	122	35	99.9
BRANDON POOL	304	15JUL13	BLUEGILL	112	25	94.8
BRANDON POOL	304	15JUL13	BLUEGILL	89	13	105.6
BRANDON POOL	304	15JUL13	BLUEGILL	84	12	118.1
BRANDON POOL	305	15JUL13	BLUEGILL	104	30	145.4
BRANDON POOL	305	15JUL13	BLUEGILL	101	23	122.9
BRANDON POOL	306	15JUL13	BLUEGILL	133	47	100.8
BRANDON POOL	306	15JUL13	BLUEGILL	83	13	133.1
BRANDON POOL	306	15JUL13	BLUEGILL	85	13	123.0
BRANDON POOL	307	15JUL13	BLUEGILL	98	21	124.0
BRANDON POOL	307	15JUL13	BLUEGILL	83	10	102.4
BRANDON POOL	307	15JUL13	BLUEGILL	91	16	120.8
BRANDON POOL	304	14AUG13	BLUEGILL	91	15	113.2
BRANDON POOL	304	14AUG13	BLUEGILL	107	22	97.0
BRANDON POOL	305	14AUG13	BLUEGILL	112	28	106.2
BRANDON POOL	306	14AUG13	BLUEGILL	135	50	102.0
BRANDON POOL	306	14AUG13	BLUEGILL	126	30	77.0
BRANDON POOL	306	14AUG13	BLUEGILL	115	31	107.7
BRANDON POOL	306	14AUG13	BLUEGILL	104	20	96.9
BRANDON POOL	307	14AUG13	BLUEGILL	139	57	105.6
BRANDON POOL	307	14AUG13	BLUEGILL	118	33	105.2
BRANDON POOL	309	14AUG13	BLUEGILL	150	74	106.5
BRANDON POOL	309	14AUG13	BLUEGILL	111	24	93.7
BRANDON POOL	307	26AUG13	BLUEGILL	81	11	122.1
BRANDON POOL	307	26AUG13	BLUEGILL	85	15	142.0
BRANDON POOL	304	26AUG13	BLUEGILL	112	29	109.9
BRANDON POOL	304	26AUG13	BLUEGILL	105	24	112.7
BRANDON POOL	304	26AUG13	BLUEGILL	82	12	127.9
BRANDON POOL	304	26AUG13	BLUEGILL	92	17	123.7
BRANDON POOL	304	26AUG13	BLUEGILL	108	25	106.9
BRANDON POOL	305	26AUG13	BLUEGILL	102	20	103.4
BRANDON POOL	305	26AUG13	BLUEGILL	110	28	112.7
BRANDON POOL	305	26AUG13	BLUEGILL	110	29	116.7
BRANDON POOL	305	26AUG13	BLUEGILL	80	10	115.7
BRANDON POOL	305	26AUG13	BLUEGILL	107	27	119.1
BRANDON POOL	306	26AUG13	BLUEGILL	94	18	122.0
BRANDON POOL	306	26AUG13	BLUEGILL	119	39	120.9
BRANDON POOL	306	26AUG13	BLUEGILL	119	35	108.5
BRANDON POOL	306	26AUG13	BLUEGILL	118	37	118.0
BRANDON POOL	306	26AUG13	BLUEGILL	109	26	107.9
BRANDON POOL	306	26AUG13	BLUEGILL	119	35	108.5
BRANDON POOL	306	26AUG13	BLUEGILL	97	18	109.9
BRANDON POOL	306	26AUG13	BLUEGILL	80	10	115.7
BRANDON POOL	306	26AUG13	BLUEGILL	103	22	110.1
BRANDON POOL	306	26AUG13	BLUEGILL	102	21	108.6
BRANDON POOL	306	26AUG13	BLUEGILL	93	16	112.4
BRANDON POOL	306	26AUG13	BLUEGILL	92	15	109.2
BRANDON POOL	306	26AUG13	BLUEGILL	93	15	105.3
BRANDON POOL	306	26AUG13	BLUEGILL	91	14	105.7
BRANDON POOL	307	26AUG13	BLUEGILL	161	95	108.1
BRANDON POOL	307	26AUG13	BLUEGILL	90	15	117.4
BRANDON POOL	307	26AUG13	BLUEGILL	91	16	120.8
BRANDON POOL	309	27AUG13	BLUEGILL	94	18	122.0
BRANDON POOL	307	09SEP13	BLUEGILL	80	11	127.3
BRANDON POOL	304	09SEP13	BLUEGILL	120	32	96.5
BRANDON POOL	304	09SEP13	BLUEGILL	137	48	93.3
BRANDON POOL	304	09SEP13	BLUEGILL	91	15	113.2

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
BRANDON POOL	304	09SEP13	BLUEGILL	107	28	123.5
BRANDON POOL	305	09SEP13	BLUEGILL	112	32	121.3
BRANDON POOL	305	09SEP13	BLUEGILL	87	12	105.1
BRANDON POOL	305	09SEP13	BLUEGILL	109	27	112.0
BRANDON POOL	306	09SEP13	BLUEGILL	81	10	111.0
BRANDON POOL	306	09SEP13	BLUEGILL	92	16	116.5
BRANDON POOL	306	09SEP13	BLUEGILL	93	15	105.3
BRANDON POOL	307	09SEP13	BLUEGILL	110	29	116.7
BRANDON POOL	307	09SEP13	BLUEGILL	95	16	104.7
BRANDON POOL	307	09SEP13	BLUEGILL	91	15	113.2
BRANDON POOL	307	09SEP13	BLUEGILL	115	35	121.6
BRANDON POOL	303	23SEP13	BLUEGILL	154	71	93.6
BRANDON POOL	304	23SEP13	BLUEGILL	122	32	91.4
BRANDON POOL	304	23SEP13	BLUEGILL	130	33	76.3
BRANDON POOL	304	23SEP13	BLUEGILL	127	38	95.0
BRANDON POOL	304	23SEP13	BLUEGILL	108	26	111.2
BRANDON POOL	304	23SEP13	BLUEGILL	119	34	105.4
BRANDON POOL	304	23SEP13	BLUEGILL	105	21	98.6
BRANDON POOL	304	23SEP13	BLUEGILL	96	14	88.5
BRANDON POOL	304	23SEP13	BLUEGILL	116	27	91.1
BRANDON POOL	304	23SEP13	BLUEGILL	86	11	100.1
BRANDON POOL	305	23SEP13	BLUEGILL	128	37	90.1
BRANDON POOL	305	23SEP13	BLUEGILL	95	17	111.3
BRANDON POOL	306	23SEP13	BLUEGILL	127	37	92.5
BRANDON POOL	306	23SEP13	BLUEGILL	102	18	93.1
BRANDON POOL	307	23SEP13	BLUEGILL	137	54	105.0
BRANDON POOL	307	23SEP13	BLUEGILL	109	24	99.6
BRANDON POOL	307	23SEP13	BLUEGILL	101	21	112.2
BRANDON POOL	309	24SEP13	BLUEGILL	113	22	81.0
BRANDON POOL	303	20MAY13	SMALLMOUTH BASS	190	100	108.9
BRANDON POOL	304	20MAY13	SMALLMOUTH BASS	224	160	102.9
BRANDON POOL	304	20MAY13	SMALLMOUTH BASS	166	62	104.0
BRANDON POOL	304	20MAY13	SMALLMOUTH BASS	176	71	98.8
BRANDON POOL	304	20MAY13	SMALLMOUTH BASS	165	55	94.1
BRANDON POOL	304	20MAY13	SMALLMOUTH BASS	172	74	110.8
BRANDON POOL	306	20MAY13	SMALLMOUTH BASS	177	81	110.7
BRANDON POOL	304	04JUN13	SMALLMOUTH BASS	252	245	108.1
BRANDON POOL	304	01JUL13	SMALLMOUTH BASS	250	170	76.9
BRANDON POOL	304	01JUL13	SMALLMOUTH BASS	288	315	90.6
BRANDON POOL	304	15JUL13	SMALLMOUTH BASS	193	92	95.3
BRANDON POOL	304	15JUL13	SMALLMOUTH BASS	232	190	109.2
BRANDON POOL	304	15JUL13	SMALLMOUTH BASS	217	145	103.2
BRANDON POOL	306	15JUL13	SMALLMOUTH BASS	241	180	91.6
BRANDON POOL	304	26AUG13	SMALLMOUTH BASS	236	190	103.4
BRANDON POOL	304	23SEP13	SMALLMOUTH BASS	242	175	87.9
BRANDON POOL	304	23SEP13	SMALLMOUTH BASS	172	75	112.3
BRANDON POOL	307	05JUN13	LARGEMOUTH BASS	183	74	92.4
BRANDON POOL	309	15JUL13	LARGEMOUTH BASS	348	520	83.5
BRANDON POOL	309	15JUL13	LARGEMOUTH BASS	382	800	95.4
BRANDON POOL	306	14AUG13	LARGEMOUTH BASS	235	230	129.3
BRANDON POOL	307	14AUG13	LARGEMOUTH BASS	264	320	124.1
BRANDON POOL	303	26AUG13	LARGEMOUTH BASS	165	70	121.6
BRANDON POOL	305	26AUG13	LARGEMOUTH BASS	169	65	104.6
BRANDON POOL	307	26AUG13	LARGEMOUTH BASS	163	60	108.4
BRANDON POOL	307	26AUG13	LARGEMOUTH BASS	234	230	131.1
BRANDON POOL	304	09SEP13	LARGEMOUTH BASS	150	46	108.4
BRANDON POOL	305	09SEP13	LARGEMOUTH BASS	181	97	125.5
BRANDON POOL	307	09SEP13	LARGEMOUTH BASS	385	960	111.7
BRANDON POOL	307	09SEP13	LARGEMOUTH BASS	303	470	117.4
BRANDON POOL	307	09SEP13	LARGEMOUTH BASS	168	75	123.1
BRANDON POOL	305	23SEP13	LARGEMOUTH BASS	193	102	107.5
BRANDON POOL	305	23SEP13	LARGEMOUTH BASS	192	101	108.2
BRANDON POOL	307	23SEP13	LARGEMOUTH BASS	152	54	121.9
BRANDON POOL	307	23SEP13	LARGEMOUTH BASS	212	120	93.7
BRANDON POOL	309	24SEP13	LARGEMOUTH BASS	171	65	100.8
BRANDON POOL	306	20MAY13	FRESHWATER DRUM	346	665	127.8
BRANDON POOL	307	20MAY13	FRESHWATER DRUM	315	505	131.1
BRANDON POOL	305	04JUN13	FRESHWATER DRUM	400	720	87.0
BRANDON POOL	304	01JUL13	FRESHWATER DRUM	398	860	105.6
BRANDON POOL	304	01JUL13	FRESHWATER DRUM	403	940	110.8
BRANDON POOL	306	01JUL13	FRESHWATER DRUM	426	1135	112.0
BRANDON POOL	306	01JUL13	FRESHWATER DRUM	430	1020	97.7
BRANDON POOL	309	02JUL13	FRESHWATER DRUM	381	680	96.0
BRANDON POOL	303	15JUL13	FRESHWATER DRUM	335	450	95.9
BRANDON POOL	303	15JUL13	FRESHWATER DRUM	355	475	84.1
BRANDON POOL	303	15JUL13	FRESHWATER DRUM	380	790	112.5
BRANDON POOL	307	15JUL13	FRESHWATER DRUM	417	1090	115.2
BRANDON POOL	309	27AUG13	FRESHWATER DRUM	425	920	91.5
BRANDON POOL	303	23SEP13	FRESHWATER DRUM	352	460	83.7
BRANDON POOL	303	23SEP13	FRESHWATER DRUM	392	930	119.8
BRANDON POOL	305	23SEP13	FRESHWATER DRUM	511	1860	102.5
BRANDON POOL	306	23SEP13	FRESHWATER DRUM	379	660	94.8
UPSTREAM I-55	402	21MAY13	LONGNOSE GAR	588	550	99.9
UPSTREAM I-55	403	21MAY13	LONGNOSE GAR	685	760	81.6
UPSTREAM I-55	403	21MAY13	LONGNOSE GAR	660	610	74.4
UPSTREAM I-55	403	21MAY13	LONGNOSE GAR	752	1010	78.6

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403	21MAY13	LONGNOSE GAR	652	780	99.3
UPSTREAM I-55	403	21MAY13	LONGNOSE GAR	780	1210	83.0
UPSTREAM I-55	403A	21MAY13	LONGNOSE GAR	460	195	82.6
UPSTREAM I-55	404A	21MAY13	LONGNOSE GAR	798	1190	75.4
UPSTREAM I-55	402	05JUN13	LONGNOSE GAR	492	220	73.9
UPSTREAM I-55	403	05JUN13	LONGNOSE GAR	1085	4020	88.3
UPSTREAM I-55	402	02JUL13	LONGNOSE GAR	787	990	65.8
UPSTREAM I-55	403	02JUL13	LONGNOSE GAR	786	1130	75.5
UPSTREAM I-55	403	02JUL13	LONGNOSE GAR	532	310	79.6
UPSTREAM I-55	403	02JUL13	LONGNOSE GAR	650	590	75.9
UPSTREAM I-55	403	02JUL13	LONGNOSE GAR	538	380	93.8
UPSTREAM I-55	403A	02JUL13	LONGNOSE GAR	727	710	62.1
UPSTREAM I-55	402	15AUG13	LONGNOSE GAR	617	520	80.0
UPSTREAM I-55	403	15AUG13	LONGNOSE GAR	660	585	71.4
UPSTREAM I-55	403A	15AUG13	LONGNOSE GAR	613	430	67.7
UPSTREAM I-55	402	27AUG13	LONGNOSE GAR	602	470	78.8
UPSTREAM I-55	404A	27AUG13	LONGNOSE GAR	325	79	111.0
UPSTREAM I-55	402	10SEP13	LONGNOSE GAR	596	530	91.9
UPSTREAM I-55	403	24SEP13	LONGNOSE GAR	606	560	91.7
UPSTREAM I-55	403	24SEP13	LONGNOSE GAR	535	305	76.8
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	310	270	81.2
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	251	160	94.0
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	291	220	80.9
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	248	160	97.7
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	320	345	93.9
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	306	225	70.5
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	312	340	100.2
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	266	200	97.8
UPSTREAM I-55	402	21MAY13	GIZZARD SHAD	352	400	80.4
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	327	330	83.8
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	307	265	82.2
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	331	370	90.4
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	325	370	95.8
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	316	310	87.8
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	290	220	81.8
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	303	235	76.0
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	186	66	100.3
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	340	390	87.6
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	297	220	75.8
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	288	250	95.0
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	288	200	76.0
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	259	135	71.8
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	276	170	73.9
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	279	170	71.4
UPSTREAM I-55	402A	21MAY13	GIZZARD SHAD	320	275	74.8
UPSTREAM I-55	403	21MAY13	GIZZARD SHAD	325	395	102.3
UPSTREAM I-55	403	21MAY13	GIZZARD SHAD	342	340	74.9
UPSTREAM I-55	403	21MAY13	GIZZARD SHAD	319	290	79.7
UPSTREAM I-55	403A	21MAY13	GIZZARD SHAD	279	190	79.8
UPSTREAM I-55	404A	21MAY13	GIZZARD SHAD	219	140	126.7
UPSTREAM I-55	405	21MAY13	GIZZARD SHAD	300	250	83.5
UPSTREAM I-55	405	21MAY13	GIZZARD SHAD	325	300	77.7
UPSTREAM I-55	405	21MAY13	GIZZARD SHAD	223	130	111.1
UPSTREAM I-55	405	21MAY13	GIZZARD SHAD	208	110	117.3
UPSTREAM I-55	405	21MAY13	GIZZARD SHAD	280	215	89.3
UPSTREAM I-55	408	21MAY13	GIZZARD SHAD	226	110	90.1
UPSTREAM I-55	408	21MAY13	GIZZARD SHAD	267	185	89.4
UPSTREAM I-55	408	21MAY13	GIZZARD SHAD	197	81	102.6
UPSTREAM I-55	408	21MAY13	GIZZARD SHAD	263	190	96.3
UPSTREAM I-55	402	05JUN13	GIZZARD SHAD	296	240	83.6
UPSTREAM I-55	402	05JUN13	GIZZARD SHAD	303	280	90.6
UPSTREAM I-55	402	05JUN13	GIZZARD SHAD	318	350	97.1
UPSTREAM I-55	402A	05JUN13	GIZZARD SHAD	322	380	101.4
UPSTREAM I-55	402A	05JUN13	GIZZARD SHAD	292	290	105.5
UPSTREAM I-55	402A	05JUN13	GIZZARD SHAD	272	210	95.6
UPSTREAM I-55	402A	05JUN13	GIZZARD SHAD	191	46	64.3
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	274	210	93.4
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	332	290	70.2
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	314	290	83.8
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	266	210	102.6
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	315	310	88.7
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	293	240	86.3
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	248	140	85.5
UPSTREAM I-55	403	05JUN13	GIZZARD SHAD	222	130	112.7
UPSTREAM I-55	403A	05JUN13	GIZZARD SHAD	258	190	102.3
UPSTREAM I-55	403A	05JUN13	GIZZARD SHAD	230	140	108.5
UPSTREAM I-55	404A	05JUN13	GIZZARD SHAD	342	400	88.1
UPSTREAM I-55	404A	05JUN13	GIZZARD SHAD	248	220	134.3
UPSTREAM I-55	404A	05JUN13	GIZZARD SHAD	245	210	133.2
UPSTREAM I-55	404A	05JUN13	GIZZARD SHAD	290	400	148.7
UPSTREAM I-55	404A	05JUN13	GIZZARD SHAD	183	50	80.0
UPSTREAM I-55	405	06JUN13	GIZZARD SHAD	217	82	76.4
UPSTREAM I-55	405	06JUN13	GIZZARD SHAD	200	82	99.0
UPSTREAM I-55	405	06JUN13	GIZZARD SHAD	196	82	105.5
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	332	300	72.6
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	328	380	95.6

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	363	380	69.3
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	308	270	82.9
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	308	305	93.7
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	298	240	81.8
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	321	305	82.2
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	332	335	81.1
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	322	290	77.4
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	288	180	68.4
UPSTREAM I-55	408	06JUN13	GIZZARD SHAD	243	105	68.4
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	294	200	71.2
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	273	190	85.5
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	223	110	94.0
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	308	240	73.7
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	227	115	92.9
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	252	160	92.8
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	203	95	109.4
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	216	110	104.0
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	273	210	94.5
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	229	120	94.3
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	238	130	90.4
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	281	210	86.3
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	211	125	127.3
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	236	140	100.0
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	228	125	99.6
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	274	180	80.1
UPSTREAM I-55	402A	02JUL13	GIZZARD SHAD	207	95	102.8
UPSTREAM I-55	403A	02JUL13	GIZZARD SHAD	223	95	81.2
UPSTREAM I-55	403A	02JUL13	GIZZARD SHAD	252	120	69.6
UPSTREAM I-55	403A	02JUL13	GIZZARD SHAD	206	80	87.9
UPSTREAM I-55	405	02JUL13	GIZZARD SHAD	218	102	93.7
UPSTREAM I-55	405	02JUL13	GIZZARD SHAD	210	85	87.9
UPSTREAM I-55	405	02JUL13	GIZZARD SHAD	238	130	90.4
UPSTREAM I-55	405	02JUL13	GIZZARD SHAD	232	120	90.5
UPSTREAM I-55	405	02JUL13	GIZZARD SHAD	219	95	86.0
UPSTREAM I-55	405	02JUL13	GIZZARD SHAD	201	85	101.0
UPSTREAM I-55	405	02JUL13	GIZZARD SHAD	291	220	80.9
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	265	200	98.9
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	244	120	77.1
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	265	145	71.7
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	192	70	96.2
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	185	62	95.8
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	197	75	95.0
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	183	60	96.0
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	310	260	78.2
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	212	95	95.3
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	265	185	91.5
UPSTREAM I-55	408	03JUL13	GIZZARD SHAD	186	65	98.8
UPSTREAM I-55	402	16JUL13	GIZZARD SHAD	355	365	71.5
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	285	220	86.4
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	262	195	100.0
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	272	190	86.5
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	215	95	91.2
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	220	105	93.7
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	218	100	91.9
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	231	120	91.7
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	243	160	104.2
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	245	140	88.8
UPSTREAM I-55	402A	16JUL13	GIZZARD SHAD	294	180	64.1
UPSTREAM I-55	403	16JUL13	GIZZARD SHAD	302	245	80.1
UPSTREAM I-55	403	16JUL13	GIZZARD SHAD	250	150	89.3
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	188	67	98.4
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	192	64	87.9
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	189	65	93.9
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	182	59	96.0
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	181	59	97.7
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	242	120	79.2
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	197	80	101.3
UPSTREAM I-55	403A	16JUL13	GIZZARD SHAD	188	67	98.4
UPSTREAM I-55	405	16JUL13	GIZZARD SHAD	312	260	76.6
UPSTREAM I-55	405	16JUL13	GIZZARD SHAD	286	225	87.4
UPSTREAM I-55	405	16JUL13	GIZZARD SHAD	222	106	91.9
UPSTREAM I-55	405	16JUL13	GIZZARD SHAD	252	135	78.3
UPSTREAM I-55	408	16JUL13	GIZZARD SHAD	285	200	78.6
UPSTREAM I-55	408	16JUL13	GIZZARD SHAD	293	220	79.2
UPSTREAM I-55	408	16JUL13	GIZZARD SHAD	292	290	105.5
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	290	240	89.2
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	243	135	87.9
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	207	88	95.2
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	201	65	77.2
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	208	92	98.1
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	288	225	85.5
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	246	145	90.8
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	284	240	95.3
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	247	145	89.6
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	240	150	101.6
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	194	75	99.7

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	207	86	93.1
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	187	70	104.6
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	320	310	84.3
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	218	100	91.9
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	207	85	92.0
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	196	74	95.2
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	207	101	109.3
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	200	80	96.6
UPSTREAM I-55	402A	15AUG13	GIZZARD SHAD	210	96	99.3
UPSTREAM I-55	403	15AUG13	GIZZARD SHAD	333	380	91.1
UPSTREAM I-55	403	15AUG13	GIZZARD SHAD	246	135	84.5
UPSTREAM I-55	403	15AUG13	GIZZARD SHAD	198	80	99.7
UPSTREAM I-55	403	15AUG13	GIZZARD SHAD	218	102	93.7
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	217	125	116.5
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	228	101	80.5
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	274	155	69.0
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	187	77	115.0
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	220	100	89.2
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	210	90	93.1
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	187	65	97.1
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	194	66	87.7
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	267	180	86.9
UPSTREAM I-55	403A	15AUG13	GIZZARD SHAD	213	95	93.9
UPSTREAM I-55	404A	15AUG13	GIZZARD SHAD	207	97	105.0
UPSTREAM I-55	404A	15AUG13	GIZZARD SHAD	205	95	106.0
UPSTREAM I-55	404A	15AUG13	GIZZARD SHAD	198	87	108.4
UPSTREAM I-55	404A	15AUG13	GIZZARD SHAD	209	94	98.7
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	246	100	62.6
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	299	230	77.6
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	200	80	96.6
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	254	110	62.2
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	260	200	105.1
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	295	210	73.9
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	262	200	102.6
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	192	65	89.3
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	186	70	106.4
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	331	340	83.1
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	306	320	100.3
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	279	190	79.8
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	294	300	106.8
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	187	78	116.5
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	205	96	107.2
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	196	76	97.8
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	201	84	99.8
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	197	84	106.4
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	268	160	76.4
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	245	140	88.8
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	274	180	80.1
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	243	130	84.6
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	204	90	102.0
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	216	92	87.0
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	196	70	90.1
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	189	74	106.9
UPSTREAM I-55	405	15AUG13	GIZZARD SHAD	256	130	71.8
UPSTREAM I-55	408	16AUG13	GIZZARD SHAD	203	81	93.3
UPSTREAM I-55	408	16AUG13	GIZZARD SHAD	248	120	73.2
UPSTREAM I-55	408	16AUG13	GIZZARD SHAD	198	62	77.3
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	222	120	104.1
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	222	115	99.7
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	224	145	122.2
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	188	54	79.3
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	202	90	105.3
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	202	85	99.4
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	235	110	79.6
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	204	105	119.0
UPSTREAM I-55	402A	27AUG13	GIZZARD SHAD	194	72	95.7
UPSTREAM I-55	403	27AUG13	GIZZARD SHAD	202	90	105.3
UPSTREAM I-55	403	27AUG13	GIZZARD SHAD	225	106	88.1
UPSTREAM I-55	403A	27AUG13	GIZZARD SHAD	222	125	108.4
UPSTREAM I-55	404A	27AUG13	GIZZARD SHAD	310	260	78.2
UPSTREAM I-55	404A	27AUG13	GIZZARD SHAD	242	180	118.7
UPSTREAM I-55	404A	27AUG13	GIZZARD SHAD	221	110	96.8
UPSTREAM I-55	404A	27AUG13	GIZZARD SHAD	215	90	86.4
UPSTREAM I-55	404A	27AUG13	GIZZARD SHAD	208	95	101.3
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	284	220	87.4
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	186	56	85.1
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	273	250	112.5
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	232	126	95.0
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	221	105	92.4
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	302	280	91.5
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	302	225	73.5
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	242	155	102.2
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	215	125	120.0
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	310	280	84.2
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	242	145	95.6
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	282	210	85.3

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	186	68	103.3
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	257	145	79.0
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	295	230	81.0
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	182	62	100.9
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	228	125	99.6
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	190	68	96.6
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	312	315	92.9
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	213	102	100.8
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	265	140	69.3
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	184	52	81.8
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	202	78	91.2
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	338	360	82.3
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	277	260	111.8
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	282	225	91.4
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	306	260	81.5
UPSTREAM I-55	405	27AUG13	GIZZARD SHAD	207	74	80.1
UPSTREAM I-55	408	28AUG13	GIZZARD SHAD	298	260	88.7
UPSTREAM I-55	408	28AUG13	GIZZARD SHAD	198	54	67.3
UPSTREAM I-55	408	28AUG13	GIZZARD SHAD	198	68	84.7
UPSTREAM I-55	408	28AUG13	GIZZARD SHAD	186	54	82.0
UPSTREAM I-55	408	28AUG13	GIZZARD SHAD	204	82	93.0
UPSTREAM I-55	408	28AUG13	GIZZARD SHAD	184	54	84.9
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	241	90	60.2
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	204	65	73.7
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	203	80	92.1
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	187	61	91.1
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	283	185	74.3
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	187	56	83.6
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	263	170	86.1
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	204	80	90.7
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	210	85	87.9
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	196	71	91.4
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	207	90	97.4
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	225	92	76.4
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	207	90	97.4
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	203	81	93.3
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	206	86	94.5
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	187	58	86.6
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	212	95	95.3
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	191	71	99.2
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	207	90	97.4
UPSTREAM I-55	402A	10SEP13	GIZZARD SHAD	258	130	70.0
UPSTREAM I-55	403	10SEP13	GIZZARD SHAD	203	88	101.3
UPSTREAM I-55	403A	10SEP13	GIZZARD SHAD	209	80	84.0
UPSTREAM I-55	403A	10SEP13	GIZZARD SHAD	205	91	101.6
UPSTREAM I-55	403A	10SEP13	GIZZARD SHAD	188	72	105.7
UPSTREAM I-55	404A	10SEP13	GIZZARD SHAD	202	77	90.1
UPSTREAM I-55	405	10SEP13	GIZZARD SHAD	261	175	90.8
UPSTREAM I-55	408	10SEP13	GIZZARD SHAD	207	85	92.0
UPSTREAM I-55	408	10SEP13	GIZZARD SHAD	228	120	95.6
UPSTREAM I-55	408	10SEP13	GIZZARD SHAD	187	65	97.1
UPSTREAM I-55	408	10SEP13	GIZZARD SHAD	202	71	83.0
UPSTREAM I-55	402	24SEP13	GIZZARD SHAD	234	125	91.7
UPSTREAM I-55	402	24SEP13	GIZZARD SHAD	272	200	91.1
UPSTREAM I-55	402	24SEP13	GIZZARD SHAD	217	88	82.0
UPSTREAM I-55	402	24SEP13	GIZZARD SHAD	236	130	92.9
UPSTREAM I-55	402	24SEP13	GIZZARD SHAD	277	185	79.5
UPSTREAM I-55	402	24SEP13	GIZZARD SHAD	225	110	91.4
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	257	175	95.4
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	268	170	81.1
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	292	220	80.0
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	286	170	66.0
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	227	100	80.8
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	203	92	105.9
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	215	100	96.0
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	219	115	104.1
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	305	290	91.9
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	212	91	91.3
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	255	155	86.6
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	247	145	89.6
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	237	130	91.6
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	240	145	98.2
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	200	71	85.7
UPSTREAM I-55	402A	24SEP13	GIZZARD SHAD	244	135	86.8
UPSTREAM I-55	403	24SEP13	GIZZARD SHAD	202	90	105.3
UPSTREAM I-55	403	24SEP13	GIZZARD SHAD	240	150	101.6
UPSTREAM I-55	403A	24SEP13	GIZZARD SHAD	212	75	75.3
UPSTREAM I-55	404A	24SEP13	GIZZARD SHAD	350	410	84.0
UPSTREAM I-55	408	25SEP13	GIZZARD SHAD	233	120	89.3
UPSTREAM I-55	408	25SEP13	GIZZARD SHAD	196	65	83.6
UPSTREAM I-55	408	25SEP13	GIZZARD SHAD	248	130	79.3
UPSTREAM I-55	403	21MAY13	COMMON CARP	452	1280	98.4
UPSTREAM I-55	403A	21MAY13	COMMON CARP	231	180	98.3
UPSTREAM I-55	404A	21MAY13	COMMON CARP	448	1210	95.5
UPSTREAM I-55	405	21MAY13	COMMON CARP	551	2160	93.2
UPSTREAM I-55	405	21MAY13	COMMON CARP	607	3000	97.5

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	408	21MAY13	COMMON CARP	570	2060	80.5
UPSTREAM I-55	408	21MAY13	COMMON CARP	522	1770	89.4
UPSTREAM I-55	402	05JUN13	COMMON CARP	665	5000	124.5
UPSTREAM I-55	402	05JUN13	COMMON CARP	592	3040	106.3
UPSTREAM I-55	402A	05JUN13	COMMON CARP	428	1280	115.5
UPSTREAM I-55	402A	05JUN13	COMMON CARP	491	1850	111.7
UPSTREAM I-55	403	05JUN13	COMMON CARP	531	2020	97.1
UPSTREAM I-55	403A	05JUN13	COMMON CARP	509	1940	105.5
UPSTREAM I-55	404A	05JUN13	COMMON CARP	502	1500	84.9
UPSTREAM I-55	408	06JUN13	COMMON CARP	520	2200	112.4
UPSTREAM I-55	408	06JUN13	COMMON CARP	670	3840	93.6
UPSTREAM I-55	408	06JUN13	COMMON CARP	520	1720	87.9
UPSTREAM I-55	408	06JUN13	COMMON CARP	551	1930	83.3
UPSTREAM I-55	402	02JUL13	COMMON CARP	527	2200	108.1
UPSTREAM I-55	402A	02JUL13	COMMON CARP	583	2890	105.7
UPSTREAM I-55	402A	02JUL13	COMMON CARP	507	1960	107.8
UPSTREAM I-55	403A	02JUL13	COMMON CARP	402	820	88.8
UPSTREAM I-55	404A	02JUL13	COMMON CARP	479	1300	84.4
UPSTREAM I-55	404A	02JUL13	COMMON CARP	262	280	105.9
UPSTREAM I-55	405	02JUL13	COMMON CARP	248	235	104.3
UPSTREAM I-55	408	03JUL13	COMMON CARP	472	1200	81.3
UPSTREAM I-55	408	03JUL13	COMMON CARP	535	1840	86.5
UPSTREAM I-55	402	16JUL13	COMMON CARP	741	6100	110.8
UPSTREAM I-55	402	16JUL13	COMMON CARP	510	1790	96.8
UPSTREAM I-55	402	16JUL13	COMMON CARP	545	2680	119.4
UPSTREAM I-55	402	16JUL13	COMMON CARP	602	2915	97.1
UPSTREAM I-55	402	16JUL13	COMMON CARP	542	2380	107.7
UPSTREAM I-55	402	16JUL13	COMMON CARP	512	2080	111.2
UPSTREAM I-55	402A	16JUL13	COMMON CARP	391	900	105.7
UPSTREAM I-55	403A	16JUL13	COMMON CARP	482	1530	97.5
UPSTREAM I-55	404A	16JUL13	COMMON CARP	275	310	101.7
UPSTREAM I-55	405	16JUL13	COMMON CARP	368	650	91.1
UPSTREAM I-55	405	16JUL13	COMMON CARP	507	1860	102.3
UPSTREAM I-55	408	16JUL13	COMMON CARP	518	1560	80.6
UPSTREAM I-55	408	16JUL13	COMMON CARP	470	1330	91.3
UPSTREAM I-55	402	15AUG13	COMMON CARP	356	635	98.1
UPSTREAM I-55	402	15AUG13	COMMON CARP	298	390	101.2
UPSTREAM I-55	402A	15AUG13	COMMON CARP	480	1450	93.6
UPSTREAM I-55	403	15AUG13	COMMON CARP	448	1275	100.6
UPSTREAM I-55	403	15AUG13	COMMON CARP	406	1010	106.3
UPSTREAM I-55	403A	15AUG13	COMMON CARP	553	2410	102.9
UPSTREAM I-55	404A	15AUG13	COMMON CARP	409	890	91.7
UPSTREAM I-55	408	16AUG13	COMMON CARP	429	820	73.5
UPSTREAM I-55	408	16AUG13	COMMON CARP	472	1640	111.2
UPSTREAM I-55	402	27AUG13	COMMON CARP	775	5200	82.8
UPSTREAM I-55	402	27AUG13	COMMON CARP	670	5000	121.9
UPSTREAM I-55	402	27AUG13	COMMON CARP	682	3600	83.3
UPSTREAM I-55	402A	27AUG13	COMMON CARP	360	700	104.6
UPSTREAM I-55	402A	27AUG13	COMMON CARP	390	810	95.8
UPSTREAM I-55	402A	27AUG13	COMMON CARP	340	560	98.9
UPSTREAM I-55	403A	27AUG13	COMMON CARP	345	610	103.3
UPSTREAM I-55	403A	27AUG13	COMMON CARP	332	510	96.6
UPSTREAM I-55	405	27AUG13	COMMON CARP	438	1000	84.3
UPSTREAM I-55	405	27AUG13	COMMON CARP	300	420	106.9
UPSTREAM I-55	405	27AUG13	COMMON CARP	530	2050	99.1
UPSTREAM I-55	405	27AUG13	COMMON CARP	545	2180	97.1
UPSTREAM I-55	405	27AUG13	COMMON CARP	452	1380	106.1
UPSTREAM I-55	402	10SEP13	COMMON CARP	517	1980	102.9
UPSTREAM I-55	402	10SEP13	COMMON CARP	391	825	96.9
UPSTREAM I-55	402A	10SEP13	COMMON CARP	546	2340	103.7
UPSTREAM I-55	404A	10SEP13	COMMON CARP	322	460	95.2
UPSTREAM I-55	408	10SEP13	COMMON CARP	352	745	118.9
UPSTREAM I-55	408	10SEP13	COMMON CARP	352	685	109.3
UPSTREAM I-55	402	24SEP13	COMMON CARP	563	2750	111.4
UPSTREAM I-55	403	24SEP13	COMMON CARP	538	2160	99.9
UPSTREAM I-55	403	24SEP13	COMMON CARP	416	1250	122.5
UPSTREAM I-55	403	24SEP13	COMMON CARP	458	1440	106.6
UPSTREAM I-55	403	24SEP13	COMMON CARP	580	2810	104.4
UPSTREAM I-55	403	24SEP13	COMMON CARP	378	820	106.3
UPSTREAM I-55	405	25SEP13	COMMON CARP	443	1160	94.6
UPSTREAM I-55	405	25SEP13	COMMON CARP	488	1420	87.3
UPSTREAM I-55	405	25SEP13	COMMON CARP	503	1760	99.1
UPSTREAM I-55	405	25SEP13	COMMON CARP	455	1200	90.5
UPSTREAM I-55	408	25SEP13	COMMON CARP	423	1040	97.1
UPSTREAM I-55	402	21MAY13	RIVER CARPSUCKER	449	1100	88.1
UPSTREAM I-55	408	21MAY13	RIVER CARPSUCKER	447	1025	83.2
UPSTREAM I-55	402A	05JUN13	RIVER CARPSUCKER	418	1180	117.0
UPSTREAM I-55	402A	05JUN13	RIVER CARPSUCKER	420	1130	110.5
UPSTREAM I-55	402A	05JUN13	RIVER CARPSUCKER	471	1810	125.6
UPSTREAM I-55	402A	05JUN13	RIVER CARPSUCKER	418	1020	101.2
UPSTREAM I-55	402A	02JUL13	RIVER CARPSUCKER	365	550	81.8
UPSTREAM I-55	402	16JUL13	RIVER CARPSUCKER	421	1010	98.1
UPSTREAM I-55	403A	10SEP13	RIVER CARPSUCKER	392	760	91.3
UPSTREAM I-55	402	16JUL13	WHITE SUCKER	360	515	89.4
UPSTREAM I-55	402	21MAY13	SMALLMOUTH BUFFALO	448	1420	88.1
UPSTREAM I-55	402A	21MAY13	SMALLMOUTH BUFFALO	382	870	90.0

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403	21MAY13	SMALLMOUTH BUFFALO	350	680	93.1
UPSTREAM I-55	403	21MAY13	SMALLMOUTH BUFFALO	568	3250	94.2
UPSTREAM I-55	403	21MAY13	SMALLMOUTH BUFFALO	472	1430	75.0
UPSTREAM I-55	403A	21MAY13	SMALLMOUTH BUFFALO	532	2190	78.3
UPSTREAM I-55	403A	21MAY13	SMALLMOUTH BUFFALO	433	1420	98.3
UPSTREAM I-55	402	05JUN13	SMALLMOUTH BUFFALO	448	1530	94.9
UPSTREAM I-55	402	05JUN13	SMALLMOUTH BUFFALO	488	1580	74.5
UPSTREAM I-55	402A	05JUN13	SMALLMOUTH BUFFALO	605	4250	100.6
UPSTREAM I-55	402A	05JUN13	SMALLMOUTH BUFFALO	481	1480	73.1
UPSTREAM I-55	402A	05JUN13	SMALLMOUTH BUFFALO	545	2480	82.1
UPSTREAM I-55	403	05JUN13	SMALLMOUTH BUFFALO	358	740	94.3
UPSTREAM I-55	402	02JUL13	SMALLMOUTH BUFFALO	517	2710	106.2
UPSTREAM I-55	402	02JUL13	SMALLMOUTH BUFFALO	601	4050	97.9
UPSTREAM I-55	402	02JUL13	SMALLMOUTH BUFFALO	427	1040	75.3
UPSTREAM I-55	402	02JUL13	SMALLMOUTH BUFFALO	470	1700	90.4
UPSTREAM I-55	402	02JUL13	SMALLMOUTH BUFFALO	530	2000	72.4
UPSTREAM I-55	402	02JUL13	SMALLMOUTH BUFFALO	441	1510	98.5
UPSTREAM I-55	402A	02JUL13	SMALLMOUTH BUFFALO	386	770	77.0
UPSTREAM I-55	402A	02JUL13	SMALLMOUTH BUFFALO	408	940	78.7
UPSTREAM I-55	402A	02JUL13	SMALLMOUTH BUFFALO	373	840	93.8
UPSTREAM I-55	402A	02JUL13	SMALLMOUTH BUFFALO	427	1200	86.8
UPSTREAM I-55	404A	02JUL13	SMALLMOUTH BUFFALO	368	840	98.0
UPSTREAM I-55	404A	02JUL13	SMALLMOUTH BUFFALO	421	1180	89.4
UPSTREAM I-55	404A	02JUL13	SMALLMOUTH BUFFALO	336	540	84.3
UPSTREAM I-55	402A	16JUL13	SMALLMOUTH BUFFALO	455	1570	92.7
UPSTREAM I-55	402A	16JUL13	SMALLMOUTH BUFFALO	421	960	72.7
UPSTREAM I-55	402A	16JUL13	SMALLMOUTH BUFFALO	510	1730	70.8
UPSTREAM I-55	403A	16JUL13	SMALLMOUTH BUFFALO	423	1020	76.1
UPSTREAM I-55	405	16JUL13	SMALLMOUTH BUFFALO	454	1450	86.2
UPSTREAM I-55	402A	15AUG13	SMALLMOUTH BUFFALO	400	1020	91.0
UPSTREAM I-55	402A	15AUG13	SMALLMOUTH BUFFALO	446	1240	78.0
UPSTREAM I-55	403	15AUG13	SMALLMOUTH BUFFALO	334	440	70.0
UPSTREAM I-55	403A	15AUG13	SMALLMOUTH BUFFALO	325	545	94.7
UPSTREAM I-55	402A	27AUG13	SMALLMOUTH BUFFALO	538	3000	103.5
UPSTREAM I-55	403	27AUG13	SMALLMOUTH BUFFALO	520	2780	106.9
UPSTREAM I-55	402A	10SEP13	SMALLMOUTH BUFFALO	535	2890	101.5
UPSTREAM I-55	403A	10SEP13	SMALLMOUTH BUFFALO	466	1610	88.0
UPSTREAM I-55	402	24SEP13	SMALLMOUTH BUFFALO	512	1780	72.0
UPSTREAM I-55	402	24SEP13	SMALLMOUTH BUFFALO	517	2200	86.2
UPSTREAM I-55	402A	24SEP13	SMALLMOUTH BUFFALO	418	1255	97.3
UPSTREAM I-55	402	05JUN13	SHORthead REDHORSE	302	320	100.1
UPSTREAM I-55	402	05JUN13	SHORthead REDHORSE	361	420	77.4
UPSTREAM I-55	402	02JUL13	SHORthead REDHORSE	272	220	93.8
UPSTREAM I-55	402	02JUL13	SHORthead REDHORSE	348	430	88.4
UPSTREAM I-55	402	15AUG13	SHORthead REDHORSE	328	390	95.5
UPSTREAM I-55	402	10SEP13	SHORthead REDHORSE	240	120	74.1
UPSTREAM I-55	402	24SEP13	SHORthead REDHORSE	240	145	89.6
UPSTREAM I-55	402	21MAY13	YELLOW BULLHEAD	94	12	119.1
UPSTREAM I-55	402	05JUN13	YELLOW BULLHEAD	127	25	93.9
UPSTREAM I-55	405	06JUN13	YELLOW BULLHEAD	200	125	108.1
UPSTREAM I-55	405	06JUN13	YELLOW BULLHEAD	278	330	98.5
UPSTREAM I-55	408	06JUN13	YELLOW BULLHEAD	288	390	103.8
UPSTREAM I-55	408	06JUN13	YELLOW BULLHEAD	204	135	109.5
UPSTREAM I-55	408	06JUN13	YELLOW BULLHEAD	173	64	88.5
UPSTREAM I-55	408	06JUN13	YELLOW BULLHEAD	151	54	115.9
UPSTREAM I-55	405	02JUL13	YELLOW BULLHEAD	253	270	109.3
UPSTREAM I-55	405	02JUL13	YELLOW BULLHEAD	256	250	97.4
UPSTREAM I-55	408	16JUL13	YELLOW BULLHEAD	274	310	97.0
UPSTREAM I-55	402	15AUG13	YELLOW BULLHEAD	252	260	106.6
UPSTREAM I-55	402	15AUG13	YELLOW BULLHEAD	212	150	107.5
UPSTREAM I-55	405	27AUG13	YELLOW BULLHEAD	222	195	120.4
UPSTREAM I-55	408	28AUG13	YELLOW BULLHEAD	251	297	123.3
UPSTREAM I-55	404A	10SEP13	YELLOW BULLHEAD	268	250	84.0
UPSTREAM I-55	408	10SEP13	YELLOW BULLHEAD	260	275	101.9
UPSTREAM I-55	402A	24SEP13	YELLOW BULLHEAD	198	112	100.1
UPSTREAM I-55	403	24SEP13	YELLOW BULLHEAD	172	71	100.0
UPSTREAM I-55	402	21MAY13	CHANNEL CATFISH	475	1230	118.3
UPSTREAM I-55	402	21MAY13	CHANNEL CATFISH	502	1540	123.4
UPSTREAM I-55	402A	21MAY13	CHANNEL CATFISH	514	1520	112.7
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	505	1390	109.2
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	524	1560	108.6
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	558	2230	126.2
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	565	2110	114.6
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	570	2760	145.6
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	425	810	112.3
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	512	1500	112.7
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	572	2570	134.0
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	500	1370	111.3
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	556	2190	125.4
UPSTREAM I-55	403	21MAY13	CHANNEL CATFISH	477	1230	116.6
UPSTREAM I-55	405	21MAY13	CHANNEL CATFISH	495	1440	120.9
UPSTREAM I-55	405	21MAY13	CHANNEL CATFISH	502	1460	117.0
UPSTREAM I-55	402A	05JUN13	CHANNEL CATFISH	573	1480	76.7
UPSTREAM I-55	402A	05JUN13	CHANNEL CATFISH	565	2060	111.8
UPSTREAM I-55	403	05JUN13	CHANNEL CATFISH	574	2700	139.2
UPSTREAM I-55	403	05JUN13	CHANNEL CATFISH	472	1010	99.2

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403	05JUN13	CHANNEL CATFISH	443	780	94.4
UPSTREAM I-55	403	05JUN13	CHANNEL CATFISH	508	1300	100.2
UPSTREAM I-55	403	05JUN13	CHANNEL CATFISH	471	1180	116.7
UPSTREAM I-55	403A	05JUN13	CHANNEL CATFISH	495	1350	113.3
UPSTREAM I-55	404A	05JUN13	CHANNEL CATFISH	604	2500	108.9
UPSTREAM I-55	404A	05JUN13	CHANNEL CATFISH	458	970	105.2
UPSTREAM I-55	405	06JUN13	CHANNEL CATFISH	562	1820	100.6
UPSTREAM I-55	405	06JUN13	CHANNEL CATFISH	531	1530	101.9
UPSTREAM I-55	405	06JUN13	CHANNEL CATFISH	481	1520	140.2
UPSTREAM I-55	405	06JUN13	CHANNEL CATFISH	565	2190	118.9
UPSTREAM I-55	402	02JUL13	CHANNEL CATFISH	470	1030	102.6
UPSTREAM I-55	402	02JUL13	CHANNEL CATFISH	453	910	102.3
UPSTREAM I-55	402	02JUL13	CHANNEL CATFISH	503	1320	105.1
UPSTREAM I-55	402A	02JUL13	CHANNEL CATFISH	529	1590	107.2
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	425	920	127.6
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	487	1300	115.1
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	417	585	86.4
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	558	1600	90.5
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	429	930	125.1
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	540	1640	103.4
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	415	795	119.3
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	490	1520	131.9
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	532	1275	84.4
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	401	620	104.1
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	491	1110	95.7
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	489	1220	106.6
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	570	1470	77.5
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	452	980	111.0
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	450	760	87.3
UPSTREAM I-55	403	02JUL13	CHANNEL CATFISH	430	880	117.4
UPSTREAM I-55	403A	02JUL13	CHANNEL CATFISH	426	680	93.6
UPSTREAM I-55	403A	02JUL13	CHANNEL CATFISH	480	1070	99.4
UPSTREAM I-55	403A	02JUL13	CHANNEL CATFISH	471	1220	120.6
UPSTREAM I-55	403A	02JUL13	CHANNEL CATFISH	417	850	125.5
UPSTREAM I-55	404A	02JUL13	CHANNEL CATFISH	415	700	105.0
UPSTREAM I-55	404A	02JUL13	CHANNEL CATFISH	582	1890	93.1
UPSTREAM I-55	402	16JUL13	CHANNEL CATFISH	504	1410	111.5
UPSTREAM I-55	402	16JUL13	CHANNEL CATFISH	488	1110	97.6
UPSTREAM I-55	402	16JUL13	CHANNEL CATFISH	365	450	103.0
UPSTREAM I-55	402A	16JUL13	CHANNEL CATFISH	458	950	103.0
UPSTREAM I-55	403	16JUL13	CHANNEL CATFISH	609	2150	91.2
UPSTREAM I-55	404A	16JUL13	CHANNEL CATFISH	544	1860	114.4
UPSTREAM I-55	404A	16JUL13	CHANNEL CATFISH	488	1290	113.5
UPSTREAM I-55	404A	16JUL13	CHANNEL CATFISH	515	1770	130.4
UPSTREAM I-55	408	16JUL13	CHANNEL CATFISH	497	1300	107.7
UPSTREAM I-55	408	16JUL13	CHANNEL CATFISH	565	1840	99.9
UPSTREAM I-55	408	16JUL13	CHANNEL CATFISH	532	1560	103.3
UPSTREAM I-55	408	16JUL13	CHANNEL CATFISH	512	1120	84.1
UPSTREAM I-55	408	16JUL13	CHANNEL CATFISH	562	2110	116.6
UPSTREAM I-55	402	15AUG13	CHANNEL CATFISH	518	1330	96.1
UPSTREAM I-55	403	15AUG13	CHANNEL CATFISH	585	2540	123.0
UPSTREAM I-55	403	15AUG13	CHANNEL CATFISH	475	1260	121.2
UPSTREAM I-55	403	15AUG13	CHANNEL CATFISH	612	2290	95.6
UPSTREAM I-55	403	15AUG13	CHANNEL CATFISH	512	1300	97.6
UPSTREAM I-55	403	15AUG13	CHANNEL CATFISH	460	1110	118.6
UPSTREAM I-55	403	15AUG13	CHANNEL CATFISH	342	350	99.3
UPSTREAM I-55	403	15AUG13	CHANNEL CATFISH	575	1660	85.1
UPSTREAM I-55	404A	15AUG13	CHANNEL CATFISH	472	1170	114.9
UPSTREAM I-55	404A	15AUG13	CHANNEL CATFISH	435	810	104.1
UPSTREAM I-55	404A	15AUG13	CHANNEL CATFISH	403	650	107.4
UPSTREAM I-55	404A	15AUG13	CHANNEL CATFISH	530	1590	106.6
UPSTREAM I-55	404A	15AUG13	CHANNEL CATFISH	448	735	85.7
UPSTREAM I-55	402	27AUG13	CHANNEL CATFISH	545	1530	93.5
UPSTREAM I-55	402A	27AUG13	CHANNEL CATFISH	451	810	92.4
UPSTREAM I-55	403A	27AUG13	CHANNEL CATFISH	575	2300	117.9
UPSTREAM I-55	403A	27AUG13	CHANNEL CATFISH	513	1220	91.0
UPSTREAM I-55	404A	27AUG13	CHANNEL CATFISH	532	1580	104.6
UPSTREAM I-55	404A	27AUG13	CHANNEL CATFISH	520	1490	106.3
UPSTREAM I-55	404A	27AUG13	CHANNEL CATFISH	442	980	119.5
UPSTREAM I-55	405	27AUG13	CHANNEL CATFISH	472	1080	106.0
UPSTREAM I-55	408	28AUG13	CHANNEL CATFISH	442	930	113.4
UPSTREAM I-55	402	10SEP13	CHANNEL CATFISH	575	1810	92.8
UPSTREAM I-55	402	10SEP13	CHANNEL CATFISH	481	1180	108.9
UPSTREAM I-55	403	10SEP13	CHANNEL CATFISH	505	1250	98.2
UPSTREAM I-55	403	10SEP13	CHANNEL CATFISH	508	1220	94.0
UPSTREAM I-55	403	10SEP13	CHANNEL CATFISH	455	950	105.3
UPSTREAM I-55	403A	10SEP13	CHANNEL CATFISH	561	1520	84.5
UPSTREAM I-55	404A	10SEP13	CHANNEL CATFISH	418	650	95.2
UPSTREAM I-55	404A	10SEP13	CHANNEL CATFISH	418	770	112.8
UPSTREAM I-55	402	24SEP13	CHANNEL CATFISH	446	800	94.7
UPSTREAM I-55	402	24SEP13	CHANNEL CATFISH	532	1550	102.6
UPSTREAM I-55	402	24SEP13	CHANNEL CATFISH	592	2510	116.9
UPSTREAM I-55	402	24SEP13	CHANNEL CATFISH	438	915	114.9
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	585	2430	117.7
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	498	1305	107.4
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	572	2140	111.6

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	554	1450	84.0
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	450	1080	124.1
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	417	840	124.0
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	453	1020	114.7
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	467	920	93.6
UPSTREAM I-55	403	24SEP13	CHANNEL CATFISH	410	670	104.6
UPSTREAM I-55	403A	24SEP13	CHANNEL CATFISH	588	2300	109.5
UPSTREAM I-55	404A	24SEP13	CHANNEL CATFISH	407	545	87.2
UPSTREAM I-55	403	21MAY13	FLATHEAD CATFISH	605	1880	67.8
UPSTREAM I-55	403	21MAY13	FLATHEAD CATFISH	635	3010	92.8
UPSTREAM I-55	402	21MAY13	WHITE BASS	310	360	88.4
UPSTREAM I-55	402	21MAY13	WHITE BASS	308	370	92.7
UPSTREAM I-55	402	21MAY13	WHITE BASS	291	350	104.4
UPSTREAM I-55	402	21MAY13	WHITE BASS	223	130	88.1
UPSTREAM I-55	402	05JUN13	WHITE BASS	360	520	80.5
UPSTREAM I-55	402	21MAY13	ROCK BASS	162	82	88.9
UPSTREAM I-55	402	05JUN13	ROCK BASS	103	21	91.6
UPSTREAM I-55	402	02JUL13	ROCK BASS	190	160	106.2
UPSTREAM I-55	402	16JUL13	ROCK BASS	212	170	80.6
UPSTREAM I-55	402	16JUL13	ROCK BASS	187	135	94.1
UPSTREAM I-55	402	16JUL13	ROCK BASS	96	21	113.7
UPSTREAM I-55	402	27AUG13	ROCK BASS	92	20	123.4
UPSTREAM I-55	402	10SEP13	ROCK BASS	182	135	102.3
UPSTREAM I-55	402	21MAY13	GREEN SUNFISH	86	14	115.4
UPSTREAM I-55	402	21MAY13	GREEN SUNFISH	104	24	109.7
UPSTREAM I-55	402	21MAY13	GREEN SUNFISH	99	22	117.2
UPSTREAM I-55	402	21MAY13	GREEN SUNFISH	79	12	128.7
UPSTREAM I-55	402	21MAY13	GREEN SUNFISH	93	19	122.9
UPSTREAM I-55	402	21MAY13	GREEN SUNFISH	82	11	105.1
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	127	51	125.5
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	66	7	131.1
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	118	40	123.6
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	114	40	137.6
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	93	20	129.3
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	99	24	127.9
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	105	28	124.3
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	112	33	119.9
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	75	9	113.4
UPSTREAM I-55	402A	21MAY13	GREEN SUNFISH	68	8	136.6
UPSTREAM I-55	403	21MAY13	GREEN SUNFISH	85	14	119.7
UPSTREAM I-55	404A	21MAY13	GREEN SUNFISH	150	72	105.7
UPSTREAM I-55	404A	21MAY13	GREEN SUNFISH	128	50	120.1
UPSTREAM I-55	404A	21MAY13	GREEN SUNFISH	90	17	121.7
UPSTREAM I-55	404A	21MAY13	GREEN SUNFISH	85	16	136.8
UPSTREAM I-55	404A	21MAY13	GREEN SUNFISH	88	18	138.2
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	172	130	124.9
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	147	76	118.8
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	61	4	95.7
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	98	20	110.0
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	120	42	123.2
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	83	15	138.0
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	70	7	109.3
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	60	4	100.7
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	105	26	115.4
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	86	11	90.7
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	62	5	113.7
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	66	6	112.4
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	71	7	104.6
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	76	10	120.9
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	75	9	113.4
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	71	8	119.5
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	65	6	117.8
UPSTREAM I-55	405	21MAY13	GREEN SUNFISH	73	9	123.3
UPSTREAM I-55	408	21MAY13	GREEN SUNFISH	174	120	111.2
UPSTREAM I-55	408	21MAY13	GREEN SUNFISH	147	90	140.7
UPSTREAM I-55	408	21MAY13	GREEN SUNFISH	110	28	107.6
UPSTREAM I-55	408	21MAY13	GREEN SUNFISH	89	17	126.0
UPSTREAM I-55	408	21MAY13	GREEN SUNFISH	70	8	124.9
UPSTREAM I-55	408	21MAY13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	402	05JUN13	GREEN SUNFISH	80	11	113.5
UPSTREAM I-55	402	05JUN13	GREEN SUNFISH	102	21	102.0
UPSTREAM I-55	402	05JUN13	GREEN SUNFISH	81	11	109.2
UPSTREAM I-55	402	05JUN13	GREEN SUNFISH	102	28	136.0
UPSTREAM I-55	402	05JUN13	GREEN SUNFISH	92	17	113.7
UPSTREAM I-55	402	05JUN13	GREEN SUNFISH	86	15	123.7
UPSTREAM I-55	402	05JUN13	GREEN SUNFISH	72	8	114.4
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	138	54	102.7
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	89	17	126.0
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	66	6	112.4
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	77	10	116.1
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	81	15	148.9
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	69	7	114.2
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	69	8	130.6
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	77	12	139.4
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	85	15	128.2

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	77	10	116.1
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	80	14	144.4
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	85	14	119.7
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	74	8	105.1
UPSTREAM I-55	402A	05JUN13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	87	13	103.4
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	103	25	117.8
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	90	15	107.4
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	103	24	113.1
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	107	25	104.7
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	93	15	97.0
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	84	12	106.4
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	80	11	113.5
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	91	15	103.8
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	116	26	84.7
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	106	26	112.1
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	74	9	118.2
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	94	17	106.4
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	101	19	95.1
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	96	17	99.6
UPSTREAM I-55	403	05JUN13	GREEN SUNFISH	135	38	77.4
UPSTREAM I-55	403A	05JUN13	GREEN SUNFISH	115	31	103.8
UPSTREAM I-55	403A	05JUN13	GREEN SUNFISH	66	6	112.4
UPSTREAM I-55	403A	05JUN13	GREEN SUNFISH	90	15	107.4
UPSTREAM I-55	403A	05JUN13	GREEN SUNFISH	91	14	96.9
UPSTREAM I-55	403A	05JUN13	GREEN SUNFISH	177	110	96.7
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	128	41	98.5
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	106	26	112.1
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	85	15	128.2
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	103	24	113.1
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	87	15	119.3
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	87	16	127.3
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	106	28	120.7
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	106	29	125.0
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	82	13	124.2
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	74	9	118.2
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	93	20	129.3
UPSTREAM I-55	404A	05JUN13	GREEN SUNFISH	107	27	113.0
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	122	38	105.9
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	97	19	107.8
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	71	8	119.5
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	80	11	113.5
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	76	10	120.9
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	102	23	111.7
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	90	17	121.7
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	77	9	104.5
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	78	9	100.4
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	77	10	116.1
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	81	11	109.2
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	73	9	123.3
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	66	6	112.4
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	72	8	114.4
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	92	17	113.7
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	86	12	98.9
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	72	8	114.4
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	66	7	131.1
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	76	9	108.9
UPSTREAM I-55	405	06JUN13	GREEN SUNFISH	74	8	105.1
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	135	62	126.2
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	163	108	122.6
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	153	72	99.4
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	134	52	108.4
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	138	58	110.3
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	141	54	96.1
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	115	32	107.1
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	70	7	109.3
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	86	14	115.4
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	87	17	135.2
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	82	11	105.1
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	62	5	113.7
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	73	8	109.6
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	116	32	104.3
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	77	11	127.8
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	76	8	96.8
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	76	10	120.9
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	74	10	131.4
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	114	26	89.4
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	110	29	111.4
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	63	5	108.2
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	95	20	121.1
UPSTREAM I-55	408	06JUN13	GREEN SUNFISH	76	11	133.0
UPSTREAM I-55	402	02JUL13	GREEN SUNFISH	119	35	105.4
UPSTREAM I-55	402	02JUL13	GREEN SUNFISH	91	15	103.8
UPSTREAM I-55	402	02JUL13	GREEN SUNFISH	71	7	104.6
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	127	40	98.4

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	164	120	133.6
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	121	38	108.7
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	60	5	125.9
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	96	20	117.2
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	97	19	107.8
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	103	24	113.1
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	78	10	111.6
UPSTREAM I-55	402A	02JUL13	GREEN SUNFISH	91	16	110.7
UPSTREAM I-55	403	02JUL13	GREEN SUNFISH	122	42	117.1
UPSTREAM I-55	403	02JUL13	GREEN SUNFISH	98	24	132.0
UPSTREAM I-55	403	02JUL13	GREEN SUNFISH	96	18	105.5
UPSTREAM I-55	403	02JUL13	GREEN SUNFISH	61	4	95.7
UPSTREAM I-55	403	02JUL13	GREEN SUNFISH	69	7	114.2
UPSTREAM I-55	403A	02JUL13	GREEN SUNFISH	76	10	120.9
UPSTREAM I-55	403A	02JUL13	GREEN SUNFISH	83	13	119.6
UPSTREAM I-55	403A	02JUL13	GREEN SUNFISH	128	46	110.5
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	113	34	120.2
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	100	24	123.9
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	90	17	121.7
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	85	16	136.8
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	68	7	119.5
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	81	12	119.1
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	97	24	136.2
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	93	19	122.9
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	90	17	121.7
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	74	10	131.4
UPSTREAM I-55	404A	02JUL13	GREEN SUNFISH	65	6	117.8
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	156	75	97.5
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	177	120	105.5
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	85	13	111.1
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	76	9	108.9
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	75	8	100.8
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	70	7	109.3
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	63	6	129.8
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	66	6	112.4
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	92	19	127.1
UPSTREAM I-55	405	02JUL13	GREEN SUNFISH	74	8	105.1
UPSTREAM I-55	408	03JUL13	GREEN SUNFISH	148	75	114.8
UPSTREAM I-55	408	03JUL13	GREEN SUNFISH	87	15	119.3
UPSTREAM I-55	408	03JUL13	GREEN SUNFISH	100	26	134.3
UPSTREAM I-55	408	03JUL13	GREEN SUNFISH	78	12	133.9
UPSTREAM I-55	408	03JUL13	GREEN SUNFISH	83	13	119.6
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	73	8	109.6
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	76	9	108.9
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	67	7	125.2
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	82	13	124.2
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	76	11	133.0
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	67	7	125.2
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	121	39	111.5
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	66	7	131.1
UPSTREAM I-55	402	16JUL13	GREEN SUNFISH	72	8	114.4
UPSTREAM I-55	402A	16JUL13	GREEN SUNFISH	160	80	96.2
UPSTREAM I-55	402A	16JUL13	GREEN SUNFISH	127	54	132.9
UPSTREAM I-55	402A	16JUL13	GREEN SUNFISH	107	34	142.4
UPSTREAM I-55	402A	16JUL13	GREEN SUNFISH	90	20	143.2
UPSTREAM I-55	403	16JUL13	GREEN SUNFISH	82	12	114.7
UPSTREAM I-55	403	16JUL13	GREEN SUNFISH	106	30	129.3
UPSTREAM I-55	403	16JUL13	GREEN SUNFISH	126	29	73.1
UPSTREAM I-55	404A	16JUL13	GREEN SUNFISH	148	72	110.2
UPSTREAM I-55	404A	16JUL13	GREEN SUNFISH	80	13	134.1
UPSTREAM I-55	404A	16JUL13	GREEN SUNFISH	91	17	117.6
UPSTREAM I-55	408	16JUL13	GREEN SUNFISH	138	60	114.1
UPSTREAM I-55	408	16JUL13	GREEN SUNFISH	102	23	111.7
UPSTREAM I-55	408	16JUL13	GREEN SUNFISH	90	18	128.9
UPSTREAM I-55	408	16JUL13	GREEN SUNFISH	83	14	128.8
UPSTREAM I-55	408	16JUL13	GREEN SUNFISH	70	8	124.9
UPSTREAM I-55	408	16JUL13	GREEN SUNFISH	74	9	118.2
UPSTREAM I-55	408	16JUL13	GREEN SUNFISH	71	8	119.5
UPSTREAM I-55	403	15AUG13	GREEN SUNFISH	120	43	126.2
UPSTREAM I-55	403	15AUG13	GREEN SUNFISH	86	13	107.2
UPSTREAM I-55	403	15AUG13	GREEN SUNFISH	68	6	102.5
UPSTREAM I-55	404A	15AUG13	GREEN SUNFISH	83	13	119.6
UPSTREAM I-55	404A	15AUG13	GREEN SUNFISH	94	19	118.9
UPSTREAM I-55	402	27AUG13	GREEN SUNFISH	85	15	128.2
UPSTREAM I-55	402	27AUG13	GREEN SUNFISH	104	24	109.7
UPSTREAM I-55	402	27AUG13	GREEN SUNFISH	71	9	134.4
UPSTREAM I-55	402	27AUG13	GREEN SUNFISH	82	11	105.1
UPSTREAM I-55	402	27AUG13	GREEN SUNFISH	69	8	130.6
UPSTREAM I-55	402	27AUG13	GREEN SUNFISH	82	12	114.7
UPSTREAM I-55	402A	27AUG13	GREEN SUNFISH	138	61	116.0
UPSTREAM I-55	402A	27AUG13	GREEN SUNFISH	101	22	110.2
UPSTREAM I-55	402A	27AUG13	GREEN SUNFISH	124	44	116.6
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	110	21	80.7
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	133	44	93.8
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	134	54	112.5

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	122	42	117.1
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	71	5	74.7
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	90	17	121.7
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	112	35	127.2
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	99	24	127.9
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	79	12	128.7
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	96	19	111.4
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	75	8	100.8
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	65	5	98.2
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	87	17	135.2
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	83	13	119.6
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	63	6	129.8
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	109	32	126.5
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	111	29	108.4
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	80	12	123.8
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	80	11	113.5
UPSTREAM I-55	403	27AUG13	GREEN SUNFISH	63	6	129.8
UPSTREAM I-55	403A	27AUG13	GREEN SUNFISH	71	8	119.5
UPSTREAM I-55	404A	27AUG13	GREEN SUNFISH	122	46	128.2
UPSTREAM I-55	404A	27AUG13	GREEN SUNFISH	91	15	103.8
UPSTREAM I-55	404A	27AUG13	GREEN SUNFISH	109	36	142.3
UPSTREAM I-55	404A	27AUG13	GREEN SUNFISH	85	15	128.2
UPSTREAM I-55	404A	27AUG13	GREEN SUNFISH	98	27	148.4
UPSTREAM I-55	404A	27AUG13	GREEN SUNFISH	105	25	111.0
UPSTREAM I-55	405	27AUG13	GREEN SUNFISH	76	11	133.0
UPSTREAM I-55	405	27AUG13	GREEN SUNFISH	74	10	131.4
UPSTREAM I-55	405	27AUG13	GREEN SUNFISH	63	6	129.8
UPSTREAM I-55	405	27AUG13	GREEN SUNFISH	60	4	100.7
UPSTREAM I-55	405	27AUG13	GREEN SUNFISH	72	10	143.0
UPSTREAM I-55	408	28AUG13	GREEN SUNFISH	78	10	111.6
UPSTREAM I-55	408	28AUG13	GREEN SUNFISH	106	22	94.8
UPSTREAM I-55	408	28AUG13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	408	28AUG13	GREEN SUNFISH	96	22	128.9
UPSTREAM I-55	408	28AUG13	GREEN SUNFISH	94	21	131.4
UPSTREAM I-55	402	10SEP13	GREEN SUNFISH	79	11	118.0
UPSTREAM I-55	402	10SEP13	GREEN SUNFISH	80	11	113.5
UPSTREAM I-55	402	10SEP13	GREEN SUNFISH	63	5	108.2
UPSTREAM I-55	402	10SEP13	GREEN SUNFISH	97	15	85.1
UPSTREAM I-55	402A	10SEP13	GREEN SUNFISH	120	34	99.8
UPSTREAM I-55	402A	10SEP13	GREEN SUNFISH	109	26	102.8
UPSTREAM I-55	402A	10SEP13	GREEN SUNFISH	100	20	103.3
UPSTREAM I-55	402A	10SEP13	GREEN SUNFISH	90	15	107.4
UPSTREAM I-55	402A	10SEP13	GREEN SUNFISH	119	43	129.5
UPSTREAM I-55	403	10SEP13	GREEN SUNFISH	142	76	132.3
UPSTREAM I-55	403	10SEP13	GREEN SUNFISH	127	45	110.7
UPSTREAM I-55	403	10SEP13	GREEN SUNFISH	73	10	137.0
UPSTREAM I-55	403	10SEP13	GREEN SUNFISH	108	36	146.4
UPSTREAM I-55	403	10SEP13	GREEN SUNFISH	88	17	130.5
UPSTREAM I-55	403	10SEP13	GREEN SUNFISH	106	30	129.3
UPSTREAM I-55	404A	10SEP13	GREEN SUNFISH	107	31	129.8
UPSTREAM I-55	404A	10SEP13	GREEN SUNFISH	99	19	101.2
UPSTREAM I-55	405	10SEP13	GREEN SUNFISH	77	11	127.8
UPSTREAM I-55	405	10SEP13	GREEN SUNFISH	62	6	136.4
UPSTREAM I-55	405	10SEP13	GREEN SUNFISH	67	7	125.2
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	133	51	108.8
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	95	17	102.9
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	85	12	102.6
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	75	10	126.0
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	63	5	108.2
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	77	9	104.5
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	114	32	110.1
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	74	9	118.2
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	78	11	122.7
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	69	8	130.6
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	71	7	104.6
UPSTREAM I-55	408	10SEP13	GREEN SUNFISH	84	13	115.3
UPSTREAM I-55	402	24SEP13	GREEN SUNFISH	118	30	92.7
UPSTREAM I-55	402	24SEP13	GREEN SUNFISH	80	11	113.5
UPSTREAM I-55	402	24SEP13	GREEN SUNFISH	86	14	115.4
UPSTREAM I-55	402	24SEP13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	403	24SEP13	GREEN SUNFISH	140	50	91.0
UPSTREAM I-55	403	24SEP13	GREEN SUNFISH	137	70	136.2
UPSTREAM I-55	403	24SEP13	GREEN SUNFISH	75	9	113.4
UPSTREAM I-55	403	24SEP13	GREEN SUNFISH	78	10	111.6
UPSTREAM I-55	403	24SEP13	GREEN SUNFISH	98	18	99.0
UPSTREAM I-55	403	24SEP13	GREEN SUNFISH	79	12	128.7
UPSTREAM I-55	403A	24SEP13	GREEN SUNFISH	127	38	93.5
UPSTREAM I-55	403A	24SEP13	GREEN SUNFISH	103	23	108.4
UPSTREAM I-55	403A	24SEP13	GREEN SUNFISH	61	4	95.7
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	103	24	113.1
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	97	21	119.2
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	129	46	107.8
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	123	48	130.5
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	126	40	100.9
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	90	17	121.7
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	114	33	113.5

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	105	26	115.4
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	107	30	125.6
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	100	23	118.8
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	79	11	118.0
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	75	9	113.4
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	87	14	111.3
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	65	6	117.8
UPSTREAM I-55	404A	24SEP13	GREEN SUNFISH	68	7	119.5
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	137	55	107.0
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	110	24	92.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	144	66	110.0
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	122	47	131.0
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	97	19	107.8
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	65	6	117.8
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	97	20	113.5
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	101	23	115.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	64	5	103.0
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	85	14	119.7
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	69	7	114.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	118	32	98.9
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	64	6	123.6
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	80	10	103.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	65	5	98.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	74	9	118.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	65	5	98.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	83	11	101.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	104	28	128.0
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	65	7	137.5
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	70	6	93.6
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	85	15	128.2
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	60	5	125.9
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	61	5	119.6
UPSTREAM I-55	405	25SEP13	GREEN SUNFISH	102	22	106.8
UPSTREAM I-55	408	25SEP13	GREEN SUNFISH	142	66	114.9
UPSTREAM I-55	408	25SEP13	GREEN SUNFISH	61	6	143.5
UPSTREAM I-55	408	25SEP13	GREEN SUNFISH	73	9	123.3
UPSTREAM I-55	408	25SEP13	GREEN SUNFISH	69	7	114.2
UPSTREAM I-55	408	25SEP13	GREEN SUNFISH	103	25	117.8
UPSTREAM I-55	408	21MAY13	PUMPKINSEED	62	5	119.1
UPSTREAM I-55	402A	21MAY13	PUMPKINSEED	122	33	87.9
UPSTREAM I-55	402A	21MAY13	PUMPKINSEED	73	8	112.3
UPSTREAM I-55	402A	21MAY13	PUMPKINSEED	62	5	119.1
UPSTREAM I-55	403	21MAY13	PUMPKINSEED	79	11	119.6
UPSTREAM I-55	403	21MAY13	PUMPKINSEED	63	5	113.1
UPSTREAM I-55	403	21MAY13	PUMPKINSEED	58	3	88.7
UPSTREAM I-55	405	21MAY13	PUMPKINSEED	107	23	93.7
UPSTREAM I-55	405	21MAY13	PUMPKINSEED	78	11	124.6
UPSTREAM I-55	408	21MAY13	PUMPKINSEED	112	30	105.4
UPSTREAM I-55	408	21MAY13	PUMPKINSEED	58	5	147.8
UPSTREAM I-55	403A	05JUN13	PUMPKINSEED	81	13	130.4
UPSTREAM I-55	403A	05JUN13	PUMPKINSEED	82	13	125.3
UPSTREAM I-55	403A	05JUN13	PUMPKINSEED	72	8	117.5
UPSTREAM I-55	404A	05JUN13	PUMPKINSEED	55	4	140.4
UPSTREAM I-55	408	05JUN13	PUMPKINSEED	73	10	140.4
UPSTREAM I-55	408	05JUN13	PUMPKINSEED	57	4	125.1
UPSTREAM I-55	408	05JUN13	PUMPKINSEED	56	4	132.5
UPSTREAM I-55	403	05JUN13	PUMPKINSEED	114	28	92.9
UPSTREAM I-55	403	05JUN13	PUMPKINSEED	114	28	92.9
UPSTREAM I-55	403	05JUN13	PUMPKINSEED	58	4	118.3
UPSTREAM I-55	403	05JUN13	PUMPKINSEED	62	5	119.1
UPSTREAM I-55	403	05JUN13	PUMPKINSEED	75	9	115.8
UPSTREAM I-55	403	05JUN13	PUMPKINSEED	67	7	129.7
UPSTREAM I-55	403	05JUN13	PUMPKINSEED	70	7	112.6
UPSTREAM I-55	403A	05JUN13	PUMPKINSEED	68	6	106.0
UPSTREAM I-55	403A	05JUN13	PUMPKINSEED	74	9	120.9
UPSTREAM I-55	404A	05JUN13	PUMPKINSEED	75	9	115.8
UPSTREAM I-55	404A	05JUN13	PUMPKINSEED	65	5	102.2
UPSTREAM I-55	404A	05JUN13	PUMPKINSEED	72	8	117.5
UPSTREAM I-55	405	06JUN13	PUMPKINSEED	117	38	115.9
UPSTREAM I-55	405	06JUN13	PUMPKINSEED	69	6	101.1
UPSTREAM I-55	402	02JUL13	PUMPKINSEED	86	13	107.4
UPSTREAM I-55	402	02JUL13	PUMPKINSEED	78	10	113.3
UPSTREAM I-55	402	02JUL13	PUMPKINSEED	98	23	124.5
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	77	9	106.3
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	65	5	102.2
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	79	11	119.6
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	77	11	130.0
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	69	7	118.0
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	70	7	112.6
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	79	9	97.9
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	68	6	106.0
UPSTREAM I-55	402A	02JUL13	PUMPKINSEED	72	8	117.5
UPSTREAM I-55	403	02JUL13	PUMPKINSEED	78	10	113.3
UPSTREAM I-55	404A	02JUL13	PUMPKINSEED	93	20	128.2
UPSTREAM I-55	404A	02JUL13	PUMPKINSEED	96	20	115.7
UPSTREAM I-55	405	02JUL13	PUMPKINSEED	86	14	115.7

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	405	02JUL13	PUMPKINSEED	76	10	123.3
UPSTREAM I-55	405	02JUL13	PUMPKINSEED	84	14	124.8
UPSTREAM I-55	405	02JUL13	PUMPKINSEED	80	11	114.8
UPSTREAM I-55	405	02JUL13	PUMPKINSEED	70	7	112.6
UPSTREAM I-55	403A	02JUL13	PUMPKINSEED	94	21	130.1
UPSTREAM I-55	403A	02JUL13	PUMPKINSEED	95	20	119.7
UPSTREAM I-55	403A	16JUL13	PUMPKINSEED	96	24	138.9
UPSTREAM I-55	402	16JUL13	PUMPKINSEED	63	6	135.7
UPSTREAM I-55	402A	16JUL13	PUMPKINSEED	110	29	108.0
UPSTREAM I-55	402A	16JUL13	PUMPKINSEED	67	6	111.2
UPSTREAM I-55	403	16JUL13	PUMPKINSEED	84	13	115.9
UPSTREAM I-55	403A	16JUL13	PUMPKINSEED	114	34	112.8
UPSTREAM I-55	408	16JUL13	PUMPKINSEED	104	29	129.5
UPSTREAM I-55	402	15AUG13	PUMPKINSEED	93	20	128.2
UPSTREAM I-55	402A	15AUG13	PUMPKINSEED	84	13	115.9
UPSTREAM I-55	403	15AUG13	PUMPKINSEED	66	6	116.8
UPSTREAM I-55	403A	15AUG13	PUMPKINSEED	91	19	130.7
UPSTREAM I-55	403A	15AUG13	PUMPKINSEED	105	28	121.2
UPSTREAM I-55	408	15AUG13	PUMPKINSEED	54	4	149.0
UPSTREAM I-55	408	16AUG13	PUMPKINSEED	95	20	119.7
UPSTREAM I-55	402A	27AUG13	PUMPKINSEED	96	21	121.5
UPSTREAM I-55	402A	27AUG13	PUMPKINSEED	103	27	124.4
UPSTREAM I-55	402A	27AUG13	PUMPKINSEED	84	14	124.8
UPSTREAM I-55	403	27AUG13	PUMPKINSEED	70	8	128.7
UPSTREAM I-55	403	27AUG13	PUMPKINSEED	71	8	122.9
UPSTREAM I-55	408	28AUG13	PUMPKINSEED	122	48	127.8
UPSTREAM I-55	408	28AUG13	PUMPKINSEED	99	20	104.8
UPSTREAM I-55	408	28AUG13	PUMPKINSEED	52	3	126.3
UPSTREAM I-55	402	10SEP13	PUMPKINSEED	83	12	111.2
UPSTREAM I-55	402	10SEP13	PUMPKINSEED	87	16	127.3
UPSTREAM I-55	402A	10SEP13	PUMPKINSEED	91	15	103.2
UPSTREAM I-55	403	10SEP13	PUMPKINSEED	72	8	117.5
UPSTREAM I-55	403	10SEP13	PUMPKINSEED	76	10	123.3
UPSTREAM I-55	403A	10SEP13	PUMPKINSEED	97	23	128.7
UPSTREAM I-55	408	10SEP13	PUMPKINSEED	108	23	90.9
UPSTREAM I-55	408	10SEP13	PUMPKINSEED	115	37	119.3
UPSTREAM I-55	402	24SEP13	PUMPKINSEED	85	13	111.5
UPSTREAM I-55	403A	24SEP13	PUMPKINSEED	118	37	109.8
UPSTREAM I-55	405	25SEP13	PUMPKINSEED	142	48	78.2
UPSTREAM I-55	405	25SEP13	PUMPKINSEED	137	51	93.3
UPSTREAM I-55	405	25SEP13	PUMPKINSEED	126	40	96.0
UPSTREAM I-55	408	25SEP13	PUMPKINSEED	102	25	118.9
UPSTREAM I-55	408	25SEP13	PUMPKINSEED	66	6	116.8
UPSTREAM I-55	404A	21MAY13	BLUEGILL	138	61	115.7
UPSTREAM I-55	405	21MAY13	BLUEGILL	81	11	122.1
UPSTREAM I-55	405	21MAY13	BLUEGILL	86	13	118.3
UPSTREAM I-55	402	21MAY13	BLUEGILL	155	86	111.0
UPSTREAM I-55	402	21MAY13	BLUEGILL	152	88	121.2
UPSTREAM I-55	402	21MAY13	BLUEGILL	128	40	97.4
UPSTREAM I-55	402	21MAY13	BLUEGILL	95	19	124.3
UPSTREAM I-55	402	21MAY13	BLUEGILL	120	33	99.5
UPSTREAM I-55	402	21MAY13	BLUEGILL	122	37	105.6
UPSTREAM I-55	402	21MAY13	BLUEGILL	95	17	111.3
UPSTREAM I-55	402	21MAY13	BLUEGILL	98	17	100.4
UPSTREAM I-55	402	21MAY13	BLUEGILL	81	11	122.1
UPSTREAM I-55	402	21MAY13	BLUEGILL	90	14	109.6
UPSTREAM I-55	402	21MAY13	BLUEGILL	97	15	91.6
UPSTREAM I-55	402	21MAY13	BLUEGILL	81	9	99.9
UPSTREAM I-55	402A	21MAY13	BLUEGILL	147	76	116.9
UPSTREAM I-55	402A	21MAY13	BLUEGILL	145	70	112.7
UPSTREAM I-55	402A	21MAY13	BLUEGILL	138	54	102.5
UPSTREAM I-55	402A	21MAY13	BLUEGILL	137	55	106.9
UPSTREAM I-55	402A	21MAY13	BLUEGILL	137	49	95.2
UPSTREAM I-55	402A	21MAY13	BLUEGILL	101	18	96.1
UPSTREAM I-55	402A	21MAY13	BLUEGILL	113	32	117.8
UPSTREAM I-55	402A	21MAY13	BLUEGILL	83	12	122.9
UPSTREAM I-55	403	21MAY13	BLUEGILL	156	89	112.5
UPSTREAM I-55	403	21MAY13	BLUEGILL	162	95	105.9
UPSTREAM I-55	403	21MAY13	BLUEGILL	138	56	106.3
UPSTREAM I-55	403	21MAY13	BLUEGILL	166	102	104.9
UPSTREAM I-55	403	21MAY13	BLUEGILL	153	64	86.2
UPSTREAM I-55	403	21MAY13	BLUEGILL	145	62	99.8
UPSTREAM I-55	403	21MAY13	BLUEGILL	120	35	105.6
UPSTREAM I-55	403	21MAY13	BLUEGILL	87	13	113.9
UPSTREAM I-55	403	21MAY13	BLUEGILL	117	37	121.4
UPSTREAM I-55	403	21MAY13	BLUEGILL	95	15	98.2
UPSTREAM I-55	404A	21MAY13	BLUEGILL	130	41	94.8
UPSTREAM I-55	404A	21MAY13	BLUEGILL	118	32	102.0
UPSTREAM I-55	404A	21MAY13	BLUEGILL	138	50	94.9
UPSTREAM I-55	404A	21MAY13	BLUEGILL	122	42	119.9
UPSTREAM I-55	404A	21MAY13	BLUEGILL	115	28	97.2
UPSTREAM I-55	404A	21MAY13	BLUEGILL	136	50	99.6
UPSTREAM I-55	404A	21MAY13	BLUEGILL	92	15	109.2
UPSTREAM I-55	404A	21MAY13	BLUEGILL	112	28	106.2
UPSTREAM I-55	404A	21MAY13	BLUEGILL	113	30	110.4
UPSTREAM I-55	404A	21MAY13	BLUEGILL	103	24	120.1

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	404A	21MAY13	BLUEGILL	105	21	98.6
UPSTREAM I-55	404A	21MAY13	BLUEGILL	116	32	108.0
UPSTREAM I-55	404A	21MAY13	BLUEGILL	104	23	111.5
UPSTREAM I-55	404A	21MAY13	BLUEGILL	117	32	105.0
UPSTREAM I-55	404A	21MAY13	BLUEGILL	106	24	109.2
UPSTREAM I-55	404A	21MAY13	BLUEGILL	112	30	113.7
UPSTREAM I-55	404A	21MAY13	BLUEGILL	110	25	100.6
UPSTREAM I-55	404A	21MAY13	BLUEGILL	116	35	118.1
UPSTREAM I-55	405	21MAY13	BLUEGILL	141	49	86.6
UPSTREAM I-55	405	21MAY13	BLUEGILL	138	46	87.3
UPSTREAM I-55	405	21MAY13	BLUEGILL	142	42	72.5
UPSTREAM I-55	405	21MAY13	BLUEGILL	117	32	105.0
UPSTREAM I-55	405	21MAY13	BLUEGILL	120	28	84.4
UPSTREAM I-55	405	21MAY13	BLUEGILL	112	20	75.8
UPSTREAM I-55	405	21MAY13	BLUEGILL	112	26	98.6
UPSTREAM I-55	405	21MAY13	BLUEGILL	127	34	85.0
UPSTREAM I-55	405	21MAY13	BLUEGILL	117	27	88.6
UPSTREAM I-55	405	21MAY13	BLUEGILL	125	34	89.6
UPSTREAM I-55	405	21MAY13	BLUEGILL	116	27	91.1
UPSTREAM I-55	405	21MAY13	BLUEGILL	128	32	77.9
UPSTREAM I-55	405	21MAY13	BLUEGILL	105	17	79.8
UPSTREAM I-55	405	21MAY13	BLUEGILL	157	100	123.7
UPSTREAM I-55	405	21MAY13	BLUEGILL	117	24	78.7
UPSTREAM I-55	405	21MAY13	BLUEGILL	99	19	108.4
UPSTREAM I-55	405	21MAY13	BLUEGILL	103	20	100.1
UPSTREAM I-55	405	21MAY13	BLUEGILL	94	16	108.4
UPSTREAM I-55	405	21MAY13	BLUEGILL	102	23	118.9
UPSTREAM I-55	405	21MAY13	BLUEGILL	103	25	125.1
UPSTREAM I-55	405	21MAY13	BLUEGILL	94	19	128.8
UPSTREAM I-55	405	21MAY13	BLUEGILL	96	18	113.8
UPSTREAM I-55	408	21MAY13	BLUEGILL	142	53	91.5
UPSTREAM I-55	408	21MAY13	BLUEGILL	117	33	108.2
UPSTREAM I-55	408	21MAY13	BLUEGILL	122	40	114.2
UPSTREAM I-55	408	21MAY13	BLUEGILL	148	60	90.3
UPSTREAM I-55	408	21MAY13	BLUEGILL	125	33	86.9
UPSTREAM I-55	408	21MAY13	BLUEGILL	103	18	90.1
UPSTREAM I-55	408	21MAY13	BLUEGILL	112	21	79.6
UPSTREAM I-55	408	21MAY13	BLUEGILL	185	140	100.5
UPSTREAM I-55	408	21MAY13	BLUEGILL	112	23	87.2
UPSTREAM I-55	408	21MAY13	BLUEGILL	110	24	96.6
UPSTREAM I-55	408	21MAY13	BLUEGILL	98	15	88.5
UPSTREAM I-55	408	21MAY13	BLUEGILL	109	19	78.8
UPSTREAM I-55	408	21MAY13	BLUEGILL	156	75	94.8
UPSTREAM I-55	408	21MAY13	BLUEGILL	117	25	82.0
UPSTREAM I-55	408	21MAY13	BLUEGILL	98	13	76.7
UPSTREAM I-55	408	21MAY13	BLUEGILL	112	21	79.6
UPSTREAM I-55	408	21MAY13	BLUEGILL	106	22	100.1
UPSTREAM I-55	408	21MAY13	BLUEGILL	113	32	117.8
UPSTREAM I-55	402	05JUN13	BLUEGILL	158	74	89.6
UPSTREAM I-55	402	05JUN13	BLUEGILL	130	45	104.1
UPSTREAM I-55	402	05JUN13	BLUEGILL	114	28	100.1
UPSTREAM I-55	402	05JUN13	BLUEGILL	113	30	110.4
UPSTREAM I-55	402	05JUN13	BLUEGILL	114	27	96.5
UPSTREAM I-55	402	05JUN13	BLUEGILL	106	25	113.8
UPSTREAM I-55	402	05JUN13	BLUEGILL	84	12	118.1
UPSTREAM I-55	402A	05JUN13	BLUEGILL	134	48	100.4
UPSTREAM I-55	402A	05JUN13	BLUEGILL	123	44	122.3
UPSTREAM I-55	402A	05JUN13	BLUEGILL	123	33	91.7
UPSTREAM I-55	402A	05JUN13	BLUEGILL	82	11	117.3
UPSTREAM I-55	403	05JUN13	BLUEGILL	121	32	93.9
UPSTREAM I-55	403	05JUN13	BLUEGILL	131	48	108.2
UPSTREAM I-55	403	05JUN13	BLUEGILL	124	38	102.8
UPSTREAM I-55	403	05JUN13	BLUEGILL	126	43	110.3
UPSTREAM I-55	403	05JUN13	BLUEGILL	82	10	106.6
UPSTREAM I-55	403	05JUN13	BLUEGILL	86	12	109.2
UPSTREAM I-55	403A	05JUN13	BLUEGILL	125	38	100.1
UPSTREAM I-55	403A	05JUN13	BLUEGILL	124	35	94.7
UPSTREAM I-55	403A	05JUN13	BLUEGILL	110	25	100.6
UPSTREAM I-55	403A	05JUN13	BLUEGILL	130	44	101.8
UPSTREAM I-55	403A	05JUN13	BLUEGILL	120	32	96.5
UPSTREAM I-55	403A	05JUN13	BLUEGILL	108	25	106.9
UPSTREAM I-55	403A	05JUN13	BLUEGILL	122	37	105.6
UPSTREAM I-55	403A	05JUN13	BLUEGILL	146	60	94.4
UPSTREAM I-55	403A	05JUN13	BLUEGILL	154	72	95.0
UPSTREAM I-55	403A	05JUN13	BLUEGILL	124	38	102.8
UPSTREAM I-55	403A	05JUN13	BLUEGILL	117	30	98.4
UPSTREAM I-55	403A	05JUN13	BLUEGILL	87	12	105.1
UPSTREAM I-55	403A	05JUN13	BLUEGILL	112	29	109.9
UPSTREAM I-55	403A	05JUN13	BLUEGILL	94	15	101.7
UPSTREAM I-55	403A	05JUN13	BLUEGILL	94	17	115.2
UPSTREAM I-55	403A	05JUN13	BLUEGILL	84	11	108.3
UPSTREAM I-55	403A	05JUN13	BLUEGILL	84	12	118.1
UPSTREAM I-55	404A	05JUN13	BLUEGILL	148	68	102.3
UPSTREAM I-55	404A	05JUN13	BLUEGILL	136	52	103.6
UPSTREAM I-55	404A	05JUN13	BLUEGILL	132	45	98.9
UPSTREAM I-55	404A	05JUN13	BLUEGILL	131	42	94.7

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	404A	05JUN13	BLUEGILL	127	42	105.0
UPSTREAM I-55	404A	05JUN13	BLUEGILL	120	41	123.7
UPSTREAM I-55	404A	05JUN13	BLUEGILL	114	29	103.7
UPSTREAM I-55	404A	05JUN13	BLUEGILL	138	51	96.8
UPSTREAM I-55	404A	05JUN13	BLUEGILL	129	41	97.3
UPSTREAM I-55	404A	05JUN13	BLUEGILL	125	46	121.2
UPSTREAM I-55	404A	05JUN13	BLUEGILL	128	47	114.4
UPSTREAM I-55	404A	05JUN13	BLUEGILL	181	130	100.3
UPSTREAM I-55	404A	05JUN13	BLUEGILL	128	46	112.0
UPSTREAM I-55	404A	05JUN13	BLUEGILL	87	13	113.9
UPSTREAM I-55	404A	05JUN13	BLUEGILL	105	25	117.4
UPSTREAM I-55	404A	05JUN13	BLUEGILL	84	13	127.9
UPSTREAM I-55	404A	05JUN13	BLUEGILL	91	14	105.7
UPSTREAM I-55	404A	05JUN13	BLUEGILL	80	10	115.7
UPSTREAM I-55	404A	05JUN13	BLUEGILL	85	13	123.0
UPSTREAM I-55	404A	05JUN13	BLUEGILL	80	10	115.7
UPSTREAM I-55	405	06JUN13	BLUEGILL	183	125	93.0
UPSTREAM I-55	405	06JUN13	BLUEGILL	157	82	101.4
UPSTREAM I-55	405	06JUN13	BLUEGILL	158	96	116.3
UPSTREAM I-55	405	06JUN13	BLUEGILL	122	38	108.5
UPSTREAM I-55	405	06JUN13	BLUEGILL	124	31	83.9
UPSTREAM I-55	405	06JUN13	BLUEGILL	147	56	86.2
UPSTREAM I-55	405	06JUN13	BLUEGILL	122	31	88.5
UPSTREAM I-55	405	06JUN13	BLUEGILL	105	21	98.6
UPSTREAM I-55	405	06JUN13	BLUEGILL	93	17	119.4
UPSTREAM I-55	405	06JUN13	BLUEGILL	115	33	114.6
UPSTREAM I-55	405	06JUN13	BLUEGILL	107	24	105.9
UPSTREAM I-55	405	06JUN13	BLUEGILL	117	34	111.5
UPSTREAM I-55	405	06JUN13	BLUEGILL	90	13	101.8
UPSTREAM I-55	405	06JUN13	BLUEGILL	92	15	109.2
UPSTREAM I-55	405	06JUN13	BLUEGILL	89	15	121.9
UPSTREAM I-55	405	06JUN13	BLUEGILL	87	14	122.7
UPSTREAM I-55	405	06JUN13	BLUEGILL	88	13	109.7
UPSTREAM I-55	408	06JUN13	BLUEGILL	158	88	106.6
UPSTREAM I-55	408	06JUN13	BLUEGILL	128	46	112.0
UPSTREAM I-55	408	06JUN13	BLUEGILL	119	35	108.5
UPSTREAM I-55	408	06JUN13	BLUEGILL	109	19	78.8
UPSTREAM I-55	408	06JUN13	BLUEGILL	112	27	102.4
UPSTREAM I-55	408	06JUN13	BLUEGILL	122	37	105.6
UPSTREAM I-55	408	06JUN13	BLUEGILL	84	12	118.1
UPSTREAM I-55	408	06JUN13	BLUEGILL	82	11	117.3
UPSTREAM I-55	408	06JUN13	BLUEGILL	116	28	94.5
UPSTREAM I-55	408	06JUN13	BLUEGILL	103	22	110.1
UPSTREAM I-55	408	06JUN13	BLUEGILL	113	24	88.3
UPSTREAM I-55	408	06JUN13	BLUEGILL	86	12	109.2
UPSTREAM I-55	408	06JUN13	BLUEGILL	105	24	112.7
UPSTREAM I-55	408	06JUN13	BLUEGILL	138	45	85.4
UPSTREAM I-55	408	06JUN13	BLUEGILL	109	21	87.1
UPSTREAM I-55	408	06JUN13	BLUEGILL	93	15	105.3
UPSTREAM I-55	408	06JUN13	BLUEGILL	88	13	109.7
UPSTREAM I-55	402	02JUL13	BLUEGILL	117	33	108.2
UPSTREAM I-55	402	02JUL13	BLUEGILL	88	14	118.1
UPSTREAM I-55	402	02JUL13	BLUEGILL	100	21	115.9
UPSTREAM I-55	402A	02JUL13	BLUEGILL	110	25	100.6
UPSTREAM I-55	402A	02JUL13	BLUEGILL	97	22	134.4
UPSTREAM I-55	402A	02JUL13	BLUEGILL	80	11	127.3
UPSTREAM I-55	402A	02JUL13	BLUEGILL	80	11	127.3
UPSTREAM I-55	402A	02JUL13	BLUEGILL	93	15	105.3
UPSTREAM I-55	402A	02JUL13	BLUEGILL	125	43	113.3
UPSTREAM I-55	402A	02JUL13	BLUEGILL	94	16	108.4
UPSTREAM I-55	402A	02JUL13	BLUEGILL	82	11	117.3
UPSTREAM I-55	402A	02JUL13	BLUEGILL	103	22	110.1
UPSTREAM I-55	402A	02JUL13	BLUEGILL	87	13	113.9
UPSTREAM I-55	403	02JUL13	BLUEGILL	161	96	109.3
UPSTREAM I-55	403	02JUL13	BLUEGILL	170	110	104.5
UPSTREAM I-55	403	02JUL13	BLUEGILL	134	51	106.7
UPSTREAM I-55	403	02JUL13	BLUEGILL	145	70	112.7
UPSTREAM I-55	403	02JUL13	BLUEGILL	131	45	101.5
UPSTREAM I-55	403	02JUL13	BLUEGILL	110	28	112.7
UPSTREAM I-55	403	02JUL13	BLUEGILL	110	29	116.7
UPSTREAM I-55	403	02JUL13	BLUEGILL	83	12	122.9
UPSTREAM I-55	403	02JUL13	BLUEGILL	84	11	108.3
UPSTREAM I-55	403	02JUL13	BLUEGILL	84	13	127.9
UPSTREAM I-55	403	02JUL13	BLUEGILL	104	21	101.8
UPSTREAM I-55	403	02JUL13	BLUEGILL	95	19	124.3
UPSTREAM I-55	403	02JUL13	BLUEGILL	80	10	115.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	147	74	113.9
UPSTREAM I-55	403A	02JUL13	BLUEGILL	132	54	118.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	132	54	118.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	141	52	91.9
UPSTREAM I-55	403A	02JUL13	BLUEGILL	130	41	94.8
UPSTREAM I-55	403A	02JUL13	BLUEGILL	132	47	103.3
UPSTREAM I-55	403A	02JUL13	BLUEGILL	88	14	118.1
UPSTREAM I-55	403A	02JUL13	BLUEGILL	88	13	109.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	87	13	113.9
UPSTREAM I-55	403A	02JUL13	BLUEGILL	81	11	122.1

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403A	02JUL13	BLUEGILL	81	12	133.2
UPSTREAM I-55	403A	02JUL13	BLUEGILL	93	17	119.4
UPSTREAM I-55	403A	02JUL13	BLUEGILL	88	13	109.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	102	19	98.2
UPSTREAM I-55	403A	02JUL13	BLUEGILL	80	10	115.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	101	19	101.5
UPSTREAM I-55	403A	02JUL13	BLUEGILL	80	10	115.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	80	10	115.7
UPSTREAM I-55	403A	02JUL13	BLUEGILL	90	14	109.6
UPSTREAM I-55	403A	02JUL13	BLUEGILL	102	23	118.9
UPSTREAM I-55	404A	02JUL13	BLUEGILL	142	60	103.6
UPSTREAM I-55	404A	02JUL13	BLUEGILL	150	74	106.5
UPSTREAM I-55	404A	02JUL13	BLUEGILL	122	33	94.2
UPSTREAM I-55	404A	02JUL13	BLUEGILL	89	14	113.7
UPSTREAM I-55	404A	02JUL13	BLUEGILL	85	12	113.6
UPSTREAM I-55	404A	02JUL13	BLUEGILL	92	16	116.5
UPSTREAM I-55	405	02JUL13	BLUEGILL	168	105	103.8
UPSTREAM I-55	405	02JUL13	BLUEGILL	162	80	89.2
UPSTREAM I-55	405	02JUL13	BLUEGILL	140	60	108.5
UPSTREAM I-55	405	02JUL13	BLUEGILL	175	90	77.7
UPSTREAM I-55	405	02JUL13	BLUEGILL	132	44	96.7
UPSTREAM I-55	405	02JUL13	BLUEGILL	85	12	113.6
UPSTREAM I-55	405	02JUL13	BLUEGILL	95	17	111.3
UPSTREAM I-55	405	02JUL13	BLUEGILL	105	27	126.8
UPSTREAM I-55	405	02JUL13	BLUEGILL	97	20	122.2
UPSTREAM I-55	405	02JUL13	BLUEGILL	83	12	122.9
UPSTREAM I-55	405	02JUL13	BLUEGILL	85	12	113.6
UPSTREAM I-55	405	02JUL13	BLUEGILL	81	11	122.1
UPSTREAM I-55	405	02JUL13	BLUEGILL	101	26	138.9
UPSTREAM I-55	405	02JUL13	BLUEGILL	121	40	117.4
UPSTREAM I-55	405	02JUL13	BLUEGILL	81	11	122.1
UPSTREAM I-55	403A	02JUL13	BLUEGILL	98	17	100.4
UPSTREAM I-55	404A	02JUL13	BLUEGILL	81	10	111.0
UPSTREAM I-55	408	03JUL13	BLUEGILL	170	115	109.3
UPSTREAM I-55	408	03JUL13	BLUEGILL	148	50	75.2
UPSTREAM I-55	408	03JUL13	BLUEGILL	157	84	103.9
UPSTREAM I-55	408	03JUL13	BLUEGILL	113	31	114.1
UPSTREAM I-55	408	03JUL13	BLUEGILL	106	24	109.2
UPSTREAM I-55	408	03JUL13	BLUEGILL	82	12	127.9
UPSTREAM I-55	408	03JUL13	BLUEGILL	86	14	127.4
UPSTREAM I-55	408	03JUL13	BLUEGILL	85	13	123.0
UPSTREAM I-55	403A	16JUL13	BLUEGILL	86	13	118.3
UPSTREAM I-55	402	16JUL13	BLUEGILL	150	77	110.8
UPSTREAM I-55	402	16JUL13	BLUEGILL	143	65	109.6
UPSTREAM I-55	402	16JUL13	BLUEGILL	82	11	117.3
UPSTREAM I-55	402	16JUL13	BLUEGILL	84	12	118.1
UPSTREAM I-55	402	16JUL13	BLUEGILL	80	9	104.1
UPSTREAM I-55	402	16JUL13	BLUEGILL	80	9	104.1
UPSTREAM I-55	402	16JUL13	BLUEGILL	80	11	127.3
UPSTREAM I-55	402A	16JUL13	BLUEGILL	178	115	93.8
UPSTREAM I-55	402A	16JUL13	BLUEGILL	135	45	91.8
UPSTREAM I-55	402A	16JUL13	BLUEGILL	130	49	113.3
UPSTREAM I-55	402A	16JUL13	BLUEGILL	152	64	88.1
UPSTREAM I-55	402A	16JUL13	BLUEGILL	133	38	81.5
UPSTREAM I-55	402A	16JUL13	BLUEGILL	107	20	88.2
UPSTREAM I-55	402A	16JUL13	BLUEGILL	150	62	89.2
UPSTREAM I-55	402A	16JUL13	BLUEGILL	87	15	131.4
UPSTREAM I-55	402A	16JUL13	BLUEGILL	89	13	105.6
UPSTREAM I-55	402A	16JUL13	BLUEGILL	85	12	113.6
UPSTREAM I-55	402A	16JUL13	BLUEGILL	85	12	113.6
UPSTREAM I-55	402A	16JUL13	BLUEGILL	93	16	112.4
UPSTREAM I-55	403	16JUL13	BLUEGILL	93	15	105.3
UPSTREAM I-55	403	16JUL13	BLUEGILL	89	13	105.6
UPSTREAM I-55	403	16JUL13	BLUEGILL	120	37	111.6
UPSTREAM I-55	403	16JUL13	BLUEGILL	84	13	127.9
UPSTREAM I-55	403A	16JUL13	BLUEGILL	84	11	108.3
UPSTREAM I-55	403A	16JUL13	BLUEGILL	81	10	111.0
UPSTREAM I-55	403A	16JUL13	BLUEGILL	80	11	127.3
UPSTREAM I-55	403A	16JUL13	BLUEGILL	80	10	115.7
UPSTREAM I-55	404A	16JUL13	BLUEGILL	137	51	99.1
UPSTREAM I-55	404A	16JUL13	BLUEGILL	94	19	128.8
UPSTREAM I-55	404A	16JUL13	BLUEGILL	84	14	137.8
UPSTREAM I-55	404A	16JUL13	BLUEGILL	82	11	117.3
UPSTREAM I-55	404A	16JUL13	BLUEGILL	88	14	118.1
UPSTREAM I-55	404A	16JUL13	BLUEGILL	88	13	109.7
UPSTREAM I-55	404A	16JUL13	BLUEGILL	88	14	118.1
UPSTREAM I-55	405	16JUL13	BLUEGILL	136	47	93.6
UPSTREAM I-55	408	16JUL13	BLUEGILL	141	67	118.4
UPSTREAM I-55	408	16JUL13	BLUEGILL	150	50	72.0
UPSTREAM I-55	408	16JUL13	BLUEGILL	132	51	112.1
UPSTREAM I-55	408	16JUL13	BLUEGILL	123	40	111.2
UPSTREAM I-55	408	16JUL13	BLUEGILL	132	43	94.5
UPSTREAM I-55	408	16JUL13	BLUEGILL	128	33	80.4
UPSTREAM I-55	408	16JUL13	BLUEGILL	135	50	102.0
UPSTREAM I-55	408	16JUL13	BLUEGILL	124	39	105.5
UPSTREAM I-55	408	16JUL13	BLUEGILL	166	96	98.7

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	408	16JUL13	BLUEGILL	139	51	94.5
UPSTREAM I-55	408	16JUL13	BLUEGILL	95	20	130.9
UPSTREAM I-55	408	16JUL13	BLUEGILL	104	28	135.7
UPSTREAM I-55	408	16JUL13	BLUEGILL	89	16	130.0
UPSTREAM I-55	408	16JUL13	BLUEGILL	87	12	105.1
UPSTREAM I-55	408	16JUL13	BLUEGILL	104	22	106.6
UPSTREAM I-55	408	16JUL13	BLUEGILL	90	16	125.3
UPSTREAM I-55	408	16JUL13	BLUEGILL	81	11	122.1
UPSTREAM I-55	408	16JUL13	BLUEGILL	107	25	110.3
UPSTREAM I-55	408	16JUL13	BLUEGILL	105	28	131.5
UPSTREAM I-55	408	16JUL13	BLUEGILL	82	11	117.3
UPSTREAM I-55	402	15AUG13	BLUEGILL	118	38	121.2
UPSTREAM I-55	402	15AUG13	BLUEGILL	90	14	109.6
UPSTREAM I-55	402	15AUG13	BLUEGILL	88	14	118.1
UPSTREAM I-55	402A	15AUG13	BLUEGILL	100	22	121.5
UPSTREAM I-55	402A	15AUG13	BLUEGILL	121	38	111.5
UPSTREAM I-55	402A	15AUG13	BLUEGILL	87	13	113.9
UPSTREAM I-55	402A	15AUG13	BLUEGILL	127	43	107.5
UPSTREAM I-55	402A	15AUG13	BLUEGILL	99	20	114.2
UPSTREAM I-55	402A	15AUG13	BLUEGILL	80	10	115.7
UPSTREAM I-55	403	15AUG13	BLUEGILL	143	61	102.9
UPSTREAM I-55	403	15AUG13	BLUEGILL	125	41	108.0
UPSTREAM I-55	403	15AUG13	BLUEGILL	110	31	124.8
UPSTREAM I-55	403	15AUG13	BLUEGILL	82	11	117.3
UPSTREAM I-55	403	15AUG13	BLUEGILL	100	23	127.0
UPSTREAM I-55	403	15AUG13	BLUEGILL	100	21	115.9
UPSTREAM I-55	403	15AUG13	BLUEGILL	101	24	128.2
UPSTREAM I-55	403A	15AUG13	BLUEGILL	128	45	109.6
UPSTREAM I-55	403A	15AUG13	BLUEGILL	91	17	128.3
UPSTREAM I-55	403A	15AUG13	BLUEGILL	103	25	125.1
UPSTREAM I-55	403A	15AUG13	BLUEGILL	100	21	115.9
UPSTREAM I-55	403A	15AUG13	BLUEGILL	97	21	128.3
UPSTREAM I-55	403A	15AUG13	BLUEGILL	110	30	120.7
UPSTREAM I-55	403A	15AUG13	BLUEGILL	91	16	120.8
UPSTREAM I-55	403A	15AUG13	BLUEGILL	93	17	119.4
UPSTREAM I-55	403A	15AUG13	BLUEGILL	91	15	113.2
UPSTREAM I-55	403A	15AUG13	BLUEGILL	87	14	122.7
UPSTREAM I-55	403A	15AUG13	BLUEGILL	90	14	109.6
UPSTREAM I-55	404A	15AUG13	BLUEGILL	142	70	120.8
UPSTREAM I-55	404A	15AUG13	BLUEGILL	148	76	114.3
UPSTREAM I-55	404A	15AUG13	BLUEGILL	118	40	127.6
UPSTREAM I-55	404A	15AUG13	BLUEGILL	120	37	111.6
UPSTREAM I-55	404A	15AUG13	BLUEGILL	93	17	119.4
UPSTREAM I-55	404A	15AUG13	BLUEGILL	86	13	118.3
UPSTREAM I-55	404A	15AUG13	BLUEGILL	86	13	118.3
UPSTREAM I-55	405	15AUG13	BLUEGILL	128	53	129.1
UPSTREAM I-55	408	16AUG13	BLUEGILL	130	45	104.1
UPSTREAM I-55	408	16AUG13	BLUEGILL	102	22	113.7
UPSTREAM I-55	408	16AUG13	BLUEGILL	101	23	122.9
UPSTREAM I-55	402	27AUG13	BLUEGILL	134	38	79.5
UPSTREAM I-55	402	27AUG13	BLUEGILL	143	51	86.0
UPSTREAM I-55	402	27AUG13	BLUEGILL	110	28	112.7
UPSTREAM I-55	402	27AUG13	BLUEGILL	97	19	116.0
UPSTREAM I-55	402A	27AUG13	BLUEGILL	162	65	72.5
UPSTREAM I-55	402A	27AUG13	BLUEGILL	122	39	111.4
UPSTREAM I-55	402A	27AUG13	BLUEGILL	140	48	86.8
UPSTREAM I-55	402A	27AUG13	BLUEGILL	94	18	122.0
UPSTREAM I-55	402A	27AUG13	BLUEGILL	90	15	117.4
UPSTREAM I-55	402A	27AUG13	BLUEGILL	100	22	121.5
UPSTREAM I-55	402A	27AUG13	BLUEGILL	100	21	115.9
UPSTREAM I-55	402A	27AUG13	BLUEGILL	85	13	123.0
UPSTREAM I-55	402A	27AUG13	BLUEGILL	100	22	121.5
UPSTREAM I-55	402A	27AUG13	BLUEGILL	106	26	118.3
UPSTREAM I-55	403	27AUG13	BLUEGILL	158	78	94.5
UPSTREAM I-55	403	27AUG13	BLUEGILL	128	42	102.3
UPSTREAM I-55	403	27AUG13	BLUEGILL	126	32	82.1
UPSTREAM I-55	403	27AUG13	BLUEGILL	106	22	100.1
UPSTREAM I-55	403	27AUG13	BLUEGILL	99	14	79.9
UPSTREAM I-55	403	27AUG13	BLUEGILL	81	12	133.2
UPSTREAM I-55	403	27AUG13	BLUEGILL	90	15	117.4
UPSTREAM I-55	403	27AUG13	BLUEGILL	87	14	122.7
UPSTREAM I-55	403	27AUG13	BLUEGILL	82	12	127.9
UPSTREAM I-55	403A	27AUG13	BLUEGILL	138	49	93.0
UPSTREAM I-55	403A	27AUG13	BLUEGILL	95	19	124.3
UPSTREAM I-55	403A	27AUG13	BLUEGILL	106	24	109.2
UPSTREAM I-55	403A	27AUG13	BLUEGILL	91	16	120.8
UPSTREAM I-55	404A	27AUG13	BLUEGILL	148	58	87.3
UPSTREAM I-55	404A	27AUG13	BLUEGILL	142	51	88.0
UPSTREAM I-55	404A	27AUG13	BLUEGILL	106	21	95.6
UPSTREAM I-55	404A	27AUG13	BLUEGILL	128	39	95.0
UPSTREAM I-55	404A	27AUG13	BLUEGILL	122	41	117.1
UPSTREAM I-55	404A	27AUG13	BLUEGILL	97	21	128.3
UPSTREAM I-55	404A	27AUG13	BLUEGILL	102	24	124.1
UPSTREAM I-55	404A	27AUG13	BLUEGILL	102	25	129.2
UPSTREAM I-55	404A	27AUG13	BLUEGILL	100	23	127.0
UPSTREAM I-55	404A	27AUG13	BLUEGILL	102	23	118.9

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	404A	27AUG13	BLUEGILL	97	19	116.0
UPSTREAM I-55	404A	27AUG13	BLUEGILL	103	26	130.1
UPSTREAM I-55	404A	27AUG13	BLUEGILL	100	20	110.4
UPSTREAM I-55	405	27AUG13	BLUEGILL	134	42	87.9
UPSTREAM I-55	405	27AUG13	BLUEGILL	98	21	124.0
UPSTREAM I-55	405	27AUG13	BLUEGILL	99	24	137.0
UPSTREAM I-55	405	27AUG13	BLUEGILL	112	36	136.5
UPSTREAM I-55	405	27AUG13	BLUEGILL	115	37	128.5
UPSTREAM I-55	408	28AUG13	BLUEGILL	138	58	110.0
UPSTREAM I-55	408	28AUG13	BLUEGILL	103	25	125.1
UPSTREAM I-55	408	28AUG13	BLUEGILL	110	29	116.7
UPSTREAM I-55	408	28AUG13	BLUEGILL	97	20	122.2
UPSTREAM I-55	402	10SEP13	BLUEGILL	146	58	91.3
UPSTREAM I-55	402	10SEP13	BLUEGILL	108	20	85.5
UPSTREAM I-55	402	10SEP13	BLUEGILL	92	16	116.5
UPSTREAM I-55	402	10SEP13	BLUEGILL	88	14	118.1
UPSTREAM I-55	402	10SEP13	BLUEGILL	95	17	111.3
UPSTREAM I-55	402	10SEP13	BLUEGILL	86	13	118.3
UPSTREAM I-55	402	10SEP13	BLUEGILL	83	12	122.9
UPSTREAM I-55	402	10SEP13	BLUEGILL	80	10	115.7
UPSTREAM I-55	402	10SEP13	BLUEGILL	95	18	117.8
UPSTREAM I-55	402A	10SEP13	BLUEGILL	115	28	97.2
UPSTREAM I-55	402A	10SEP13	BLUEGILL	145	57	91.8
UPSTREAM I-55	402A	10SEP13	BLUEGILL	101	23	122.9
UPSTREAM I-55	402A	10SEP13	BLUEGILL	94	16	108.4
UPSTREAM I-55	402A	10SEP13	BLUEGILL	104	24	116.3
UPSTREAM I-55	402A	10SEP13	BLUEGILL	90	14	109.6
UPSTREAM I-55	402A	10SEP13	BLUEGILL	110	27	108.7
UPSTREAM I-55	402A	10SEP13	BLUEGILL	106	26	118.3
UPSTREAM I-55	402A	10SEP13	BLUEGILL	83	12	122.9
UPSTREAM I-55	402A	10SEP13	BLUEGILL	102	21	108.6
UPSTREAM I-55	402A	10SEP13	BLUEGILL	85	13	123.0
UPSTREAM I-55	403	10SEP13	BLUEGILL	128	38	92.5
UPSTREAM I-55	403	10SEP13	BLUEGILL	122	34	97.1
UPSTREAM I-55	403	10SEP13	BLUEGILL	106	26	118.3
UPSTREAM I-55	403	10SEP13	BLUEGILL	87	13	113.9
UPSTREAM I-55	403	10SEP13	BLUEGILL	93	17	119.4
UPSTREAM I-55	403	10SEP13	BLUEGILL	96	16	101.1
UPSTREAM I-55	403A	10SEP13	BLUEGILL	102	20	103.4
UPSTREAM I-55	403A	10SEP13	BLUEGILL	112	28	106.2
UPSTREAM I-55	403A	10SEP13	BLUEGILL	87	14	122.7
UPSTREAM I-55	404A	10SEP13	BLUEGILL	112	26	98.6
UPSTREAM I-55	404A	10SEP13	BLUEGILL	137	48	93.3
UPSTREAM I-55	404A	10SEP13	BLUEGILL	101	22	117.5
UPSTREAM I-55	404A	10SEP13	BLUEGILL	93	18	126.4
UPSTREAM I-55	404A	10SEP13	BLUEGILL	100	22	121.5
UPSTREAM I-55	404A	10SEP13	BLUEGILL	100	23	127.0
UPSTREAM I-55	404A	10SEP13	BLUEGILL	97	19	116.0
UPSTREAM I-55	405	10SEP13	BLUEGILL	171	95	88.5
UPSTREAM I-55	405	10SEP13	BLUEGILL	137	54	105.0
UPSTREAM I-55	405	10SEP13	BLUEGILL	108	24	102.7
UPSTREAM I-55	405	10SEP13	BLUEGILL	107	24	105.9
UPSTREAM I-55	405	10SEP13	BLUEGILL	137	51	99.1
UPSTREAM I-55	405	10SEP13	BLUEGILL	135	46	93.9
UPSTREAM I-55	405	10SEP13	BLUEGILL	142	60	103.6
UPSTREAM I-55	405	10SEP13	BLUEGILL	110	30	120.7
UPSTREAM I-55	408	10SEP13	BLUEGILL	143	61	102.9
UPSTREAM I-55	408	10SEP13	BLUEGILL	141	56	98.9
UPSTREAM I-55	408	10SEP13	BLUEGILL	97	20	122.2
UPSTREAM I-55	408	10SEP13	BLUEGILL	97	16	97.7
UPSTREAM I-55	408	10SEP13	BLUEGILL	97	20	122.2
UPSTREAM I-55	408	10SEP13	BLUEGILL	92	16	116.5
UPSTREAM I-55	403A	10SEP13	BLUEGILL	110	30	120.7
UPSTREAM I-55	402	24SEP13	BLUEGILL	113	26	95.7
UPSTREAM I-55	402	24SEP13	BLUEGILL	83	10	102.4
UPSTREAM I-55	402	24SEP13	BLUEGILL	87	12	105.1
UPSTREAM I-55	402A	24SEP13	BLUEGILL	125	37	97.5
UPSTREAM I-55	402A	24SEP13	BLUEGILL	117	25	82.0
UPSTREAM I-55	402A	24SEP13	BLUEGILL	126	38	97.5
UPSTREAM I-55	402A	24SEP13	BLUEGILL	127	35	87.5
UPSTREAM I-55	402A	24SEP13	BLUEGILL	167	88	88.7
UPSTREAM I-55	402A	24SEP13	BLUEGILL	134	42	87.9
UPSTREAM I-55	402A	24SEP13	BLUEGILL	147	58	89.2
UPSTREAM I-55	402A	24SEP13	BLUEGILL	153	70	94.3
UPSTREAM I-55	402A	24SEP13	BLUEGILL	91	14	105.7
UPSTREAM I-55	402A	24SEP13	BLUEGILL	108	26	111.2
UPSTREAM I-55	402A	24SEP13	BLUEGILL	86	13	118.3
UPSTREAM I-55	403	24SEP13	BLUEGILL	105	21	98.6
UPSTREAM I-55	403	24SEP13	BLUEGILL	107	26	114.7
UPSTREAM I-55	403	24SEP13	BLUEGILL	108	21	89.8
UPSTREAM I-55	403	24SEP13	BLUEGILL	103	19	95.1
UPSTREAM I-55	403	24SEP13	BLUEGILL	137	52	101.1
UPSTREAM I-55	403	24SEP13	BLUEGILL	117	28	91.8
UPSTREAM I-55	403	24SEP13	BLUEGILL	123	37	102.8
UPSTREAM I-55	403	24SEP13	BLUEGILL	106	20	91.0
UPSTREAM I-55	403	24SEP13	BLUEGILL	130	47	108.7

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403	24SEP13	BLUEGILL	98	18	106.3
UPSTREAM I-55	403	24SEP13	BLUEGILL	147	66	101.6
UPSTREAM I-55	403	24SEP13	BLUEGILL	134	48	100.4
UPSTREAM I-55	403	24SEP13	BLUEGILL	164	89	95.3
UPSTREAM I-55	403	24SEP13	BLUEGILL	103	22	110.1
UPSTREAM I-55	403	24SEP13	BLUEGILL	93	15	105.3
UPSTREAM I-55	403	24SEP13	BLUEGILL	84	11	108.3
UPSTREAM I-55	403	24SEP13	BLUEGILL	114	32	114.4
UPSTREAM I-55	403	24SEP13	BLUEGILL	114	28	100.1
UPSTREAM I-55	403	24SEP13	BLUEGILL	105	23	108.0
UPSTREAM I-55	403	24SEP13	BLUEGILL	85	12	113.6
UPSTREAM I-55	403	24SEP13	BLUEGILL	106	24	109.2
UPSTREAM I-55	403	24SEP13	BLUEGILL	111	30	117.2
UPSTREAM I-55	403A	24SEP13	BLUEGILL	133	41	87.9
UPSTREAM I-55	403A	24SEP13	BLUEGILL	112	25	94.8
UPSTREAM I-55	403A	24SEP13	BLUEGILL	106	20	91.0
UPSTREAM I-55	403A	24SEP13	BLUEGILL	103	19	95.1
UPSTREAM I-55	403A	24SEP13	BLUEGILL	133	42	90.1
UPSTREAM I-55	403A	24SEP13	BLUEGILL	104	20	96.9
UPSTREAM I-55	403A	24SEP13	BLUEGILL	102	26	134.4
UPSTREAM I-55	403A	24SEP13	BLUEGILL	88	13	109.7
UPSTREAM I-55	403A	24SEP13	BLUEGILL	98	20	118.1
UPSTREAM I-55	403A	24SEP13	BLUEGILL	96	19	120.1
UPSTREAM I-55	403A	24SEP13	BLUEGILL	106	25	113.8
UPSTREAM I-55	403A	24SEP13	BLUEGILL	98	18	106.3
UPSTREAM I-55	403A	24SEP13	BLUEGILL	95	17	111.3
UPSTREAM I-55	403A	24SEP13	BLUEGILL	97	19	116.0
UPSTREAM I-55	404A	24SEP13	BLUEGILL	162	88	98.1
UPSTREAM I-55	404A	24SEP13	BLUEGILL	170	85	80.8
UPSTREAM I-55	404A	24SEP13	BLUEGILL	123	32	88.9
UPSTREAM I-55	404A	24SEP13	BLUEGILL	121	35	102.7
UPSTREAM I-55	404A	24SEP13	BLUEGILL	108	26	111.2
UPSTREAM I-55	404A	24SEP13	BLUEGILL	105	24	112.7
UPSTREAM I-55	404A	24SEP13	BLUEGILL	105	24	112.7
UPSTREAM I-55	408	24SEP13	BLUEGILL	93	16	112.4
UPSTREAM I-55	405	25SEP13	BLUEGILL	136	52	103.6
UPSTREAM I-55	405	25SEP13	BLUEGILL	126	43	110.3
UPSTREAM I-55	405	25SEP13	BLUEGILL	117	23	75.4
UPSTREAM I-55	405	25SEP13	BLUEGILL	123	33	91.7
UPSTREAM I-55	405	25SEP13	BLUEGILL	141	61	107.8
UPSTREAM I-55	405	25SEP13	BLUEGILL	128	40	97.4
UPSTREAM I-55	405	25SEP13	BLUEGILL	112	27	102.4
UPSTREAM I-55	405	25SEP13	BLUEGILL	103	22	110.1
UPSTREAM I-55	405	25SEP13	BLUEGILL	120	32	96.5
UPSTREAM I-55	405	25SEP13	BLUEGILL	117	30	98.4
UPSTREAM I-55	405	25SEP13	BLUEGILL	80	10	115.7
UPSTREAM I-55	405	25SEP13	BLUEGILL	109	27	112.0
UPSTREAM I-55	405	25SEP13	BLUEGILL	105	24	112.7
UPSTREAM I-55	405	25SEP13	BLUEGILL	117	33	108.2
UPSTREAM I-55	405	25SEP13	BLUEGILL	106	27	122.9
UPSTREAM I-55	405	25SEP13	BLUEGILL	80	10	115.7
UPSTREAM I-55	408	25SEP13	BLUEGILL	112	25	94.8
UPSTREAM I-55	408	25SEP13	BLUEGILL	116	30	101.2
UPSTREAM I-55	408	25SEP13	BLUEGILL	103	19	95.1
UPSTREAM I-55	408	25SEP13	BLUEGILL	110	23	92.6
UPSTREAM I-55	408	25SEP13	BLUEGILL	90	14	109.6
UPSTREAM I-55	408	25SEP13	BLUEGILL	94	17	115.2
UPSTREAM I-55	408	25SEP13	BLUEGILL	100	21	115.9
UPSTREAM I-55	408	25SEP13	BLUEGILL	85	13	123.0
UPSTREAM I-55	408	25SEP13	BLUEGILL	97	21	128.3
UPSTREAM I-55	402	21MAY13	SMALLMOUTH BASS	312	320	71.3
UPSTREAM I-55	402	21MAY13	SMALLMOUTH BASS	152	47	104.5
UPSTREAM I-55	403	21MAY13	SMALLMOUTH BASS	231	195	113.6
UPSTREAM I-55	404A	21MAY13	SMALLMOUTH BASS	170	54	83.9
UPSTREAM I-55	403	05JUN13	SMALLMOUTH BASS	187	85	97.4
UPSTREAM I-55	402	15AUG13	SMALLMOUTH BASS	210	120	94.9
UPSTREAM I-55	402	15AUG13	SMALLMOUTH BASS	292	300	82.6
UPSTREAM I-55	402	15AUG13	SMALLMOUTH BASS	216	115	83.1
UPSTREAM I-55	402	27AUG13	SMALLMOUTH BASS	259	175	70.7
UPSTREAM I-55	402	27AUG13	SMALLMOUTH BASS	228	150	91.1
UPSTREAM I-55	402	27AUG13	SMALLMOUTH BASS	260	225	89.8
UPSTREAM I-55	402	10SEP13	SMALLMOUTH BASS	203	110	96.9
UPSTREAM I-55	404A	10SEP13	SMALLMOUTH BASS	235	145	80.0
UPSTREAM I-55	402	24SEP13	SMALLMOUTH BASS	267	210	77.0
UPSTREAM I-55	402	21MAY13	LARGEMOUTH BASS	267	265	99.1
UPSTREAM I-55	402	21MAY13	LARGEMOUTH BASS	232	170	99.6
UPSTREAM I-55	402	21MAY13	LARGEMOUTH BASS	288	390	114.6
UPSTREAM I-55	402	21MAY13	LARGEMOUTH BASS	150	38	89.5
UPSTREAM I-55	402A	21MAY13	LARGEMOUTH BASS	302	415	104.8
UPSTREAM I-55	402A	21MAY13	LARGEMOUTH BASS	270	185	66.8
UPSTREAM I-55	402A	21MAY13	LARGEMOUTH BASS	187	79	92.1
UPSTREAM I-55	402A	21MAY13	LARGEMOUTH BASS	256	240	102.7
UPSTREAM I-55	403	21MAY13	LARGEMOUTH BASS	180	74	97.4
UPSTREAM I-55	403A	21MAY13	LARGEMOUTH BASS	262	265	105.3
UPSTREAM I-55	404A	21MAY13	LARGEMOUTH BASS	292	385	108.2
UPSTREAM I-55	404A	21MAY13	LARGEMOUTH BASS	246	265	128.8

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	404A	21MAY13	LARGEMOUTH BASS	217	160	116.0
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	255	260	112.6
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	268	240	88.7
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	263	300	117.8
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	242	195	99.8
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	251	250	113.9
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	267	265	99.1
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	276	320	107.7
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	282	390	122.6
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	330	565	107.5
UPSTREAM I-55	405	21MAY13	LARGEMOUTH BASS	167	56	93.6
UPSTREAM I-55	408	21MAY13	LARGEMOUTH BASS	218	125	89.3
UPSTREAM I-55	408	21MAY13	LARGEMOUTH BASS	185	70	84.4
UPSTREAM I-55	408	21MAY13	LARGEMOUTH BASS	377	850	105.8
UPSTREAM I-55	408	21MAY13	LARGEMOUTH BASS	182	62	78.8
UPSTREAM I-55	408	21MAY13	LARGEMOUTH BASS	212	145	113.2
UPSTREAM I-55	408	21MAY13	LARGEMOUTH BASS	192	100	107.1
UPSTREAM I-55	408	21MAY13	LARGEMOUTH BASS	194	115	119.2
UPSTREAM I-55	402	05JUN13	LARGEMOUTH BASS	294	430	118.3
UPSTREAM I-55	402	05JUN13	LARGEMOUTH BASS	310	430	99.9
UPSTREAM I-55	402	05JUN13	LARGEMOUTH BASS	288	320	94.0
UPSTREAM I-55	402	05JUN13	LARGEMOUTH BASS	242	180	92.2
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	282	330	103.7
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	303	390	97.4
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	279	290	94.3
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	266	260	98.4
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	220	140	97.2
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	258	245	102.3
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	191	82	89.3
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	258	220	91.8
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	188	74	84.8
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	202	92	83.8
UPSTREAM I-55	402A	05JUN13	LARGEMOUTH BASS	173	64	95.6
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	282	310	97.4
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	219	130	91.5
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	256	210	89.9
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	202	105	95.7
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	211	125	99.1
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	186	105	124.5
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	151	42	96.9
UPSTREAM I-55	403	05JUN13	LARGEMOUTH BASS	161	42	78.9
UPSTREAM I-55	403A	05JUN13	LARGEMOUTH BASS	390	790	88.2
UPSTREAM I-55	403A	05JUN13	LARGEMOUTH BASS	364	840	116.9
UPSTREAM I-55	403A	05JUN13	LARGEMOUTH BASS	268	260	96.1
UPSTREAM I-55	403A	05JUN13	LARGEMOUTH BASS	307	400	95.9
UPSTREAM I-55	404A	05JUN13	LARGEMOUTH BASS	198	85	82.6
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	344	660	110.0
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	272	320	112.8
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	193	90	94.8
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	252	215	96.7
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	242	220	112.6
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	274	370	127.4
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	266	290	109.8
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	290	430	123.6
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	254	270	118.5
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	265	280	107.3
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	265	255	97.7
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	272	320	112.8
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	206	120	102.7
UPSTREAM I-55	405	06JUN13	LARGEMOUTH BASS	215	135	100.8
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	408	880	85.1
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	332	540	100.8
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	244	195	97.2
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	362	880	124.6
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	274	280	96.4
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	247	210	100.7
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	312	370	84.2
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	222	135	91.0
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	242	195	99.8
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	232	195	114.2
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	224	160	104.8
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	155	48	101.8
UPSTREAM I-55	408	06JUN13	LARGEMOUTH BASS	153	39	86.2
UPSTREAM I-55	402	02JUL13	LARGEMOUTH BASS	323	500	101.9
UPSTREAM I-55	402	02JUL13	LARGEMOUTH BASS	182	80	101.7
UPSTREAM I-55	402	02JUL13	LARGEMOUTH BASS	365	780	107.6
UPSTREAM I-55	402	02JUL13	LARGEMOUTH BASS	302	370	93.4
UPSTREAM I-55	402	02JUL13	LARGEMOUTH BASS	236	165	91.5
UPSTREAM I-55	402A	02JUL13	LARGEMOUTH BASS	290	290	83.3
UPSTREAM I-55	402A	02JUL13	LARGEMOUTH BASS	315	470	103.8
UPSTREAM I-55	402A	02JUL13	LARGEMOUTH BASS	308	500	118.6
UPSTREAM I-55	402A	02JUL13	LARGEMOUTH BASS	194	95	98.5
UPSTREAM I-55	402A	02JUL13	LARGEMOUTH BASS	251	280	127.6
UPSTREAM I-55	403	02JUL13	LARGEMOUTH BASS	185	77	92.9
UPSTREAM I-55	403	02JUL13	LARGEMOUTH BASS	204	125	110.4
UPSTREAM I-55	403A	02JUL13	LARGEMOUTH BASS	282	320	100.6

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	403A	02JUL13	LARGEMOUTH BASS	360	730	105.2
UPSTREAM I-55	403A	02JUL13	LARGEMOUTH BASS	378	790	97.5
UPSTREAM I-55	403A	02JUL13	LARGEMOUTH BASS	202	95	86.6
UPSTREAM I-55	403A	02JUL13	LARGEMOUTH BASS	240	170	89.4
UPSTREAM I-55	404A	02JUL13	LARGEMOUTH BASS	371	760	99.5
UPSTREAM I-55	404A	02JUL13	LARGEMOUTH BASS	277	265	88.2
UPSTREAM I-55	404A	02JUL13	LARGEMOUTH BASS	223	135	89.7
UPSTREAM I-55	404A	02JUL13	LARGEMOUTH BASS	222	120	80.9
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	217	100	72.5
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	183	84	104.9
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	243	145	73.3
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	334	520	95.2
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	282	310	97.4
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	190	80	88.6
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	253	220	97.7
UPSTREAM I-55	405	02JUL13	LARGEMOUTH BASS	207	115	96.9
UPSTREAM I-55	408	03JUL13	LARGEMOUTH BASS	361	850	121.5
UPSTREAM I-55	408	03JUL13	LARGEMOUTH BASS	248	210	99.4
UPSTREAM I-55	408	03JUL13	LARGEMOUTH BASS	153	46	101.7
UPSTREAM I-55	408	03JUL13	LARGEMOUTH BASS	233	235	135.8
UPSTREAM I-55	408	03JUL13	LARGEMOUTH BASS	166	58	98.9
UPSTREAM I-55	402	16JUL13	LARGEMOUTH BASS	335	460	83.4
UPSTREAM I-55	402	16JUL13	LARGEMOUTH BASS	310	425	98.7
UPSTREAM I-55	402	16JUL13	LARGEMOUTH BASS	254	220	96.5
UPSTREAM I-55	402	16JUL13	LARGEMOUTH BASS	210	130	104.7
UPSTREAM I-55	402A	16JUL13	LARGEMOUTH BASS	188	85	97.4
UPSTREAM I-55	402A	16JUL13	LARGEMOUTH BASS	353	610	93.6
UPSTREAM I-55	402A	16JUL13	LARGEMOUTH BASS	305	385	94.2
UPSTREAM I-55	402A	16JUL13	LARGEMOUTH BASS	161	55	103.4
UPSTREAM I-55	403	16JUL13	LARGEMOUTH BASS	273	300	104.6
UPSTREAM I-55	403A	16JUL13	LARGEMOUTH BASS	342	600	101.9
UPSTREAM I-55	403A	16JUL13	LARGEMOUTH BASS	303	395	98.7
UPSTREAM I-55	404A	16JUL13	LARGEMOUTH BASS	298	390	102.8
UPSTREAM I-55	404A	16JUL13	LARGEMOUTH BASS	270	290	104.7
UPSTREAM I-55	404A	16JUL13	LARGEMOUTH BASS	220	140	97.2
UPSTREAM I-55	404A	16JUL13	LARGEMOUTH BASS	231	165	98.0
UPSTREAM I-55	405	16JUL13	LARGEMOUTH BASS	257	220	93.0
UPSTREAM I-55	405	16JUL13	LARGEMOUTH BASS	368	710	95.4
UPSTREAM I-55	405	16JUL13	LARGEMOUTH BASS	152	43	97.1
UPSTREAM I-55	405	16JUL13	LARGEMOUTH BASS	175	61	87.9
UPSTREAM I-55	408	16JUL13	LARGEMOUTH BASS	293	290	80.7
UPSTREAM I-55	408	16JUL13	LARGEMOUTH BASS	399	765	79.4
UPSTREAM I-55	408	16JUL13	LARGEMOUTH BASS	404	1060	105.8
UPSTREAM I-55	408	16JUL13	LARGEMOUTH BASS	407	1040	101.3
UPSTREAM I-55	408	16JUL13	LARGEMOUTH BASS	241	220	114.1
UPSTREAM I-55	408	16JUL13	LARGEMOUTH BASS	380	860	104.3
UPSTREAM I-55	408	16JUL13	LARGEMOUTH BASS	260	250	101.8
UPSTREAM I-55	402	15AUG13	LARGEMOUTH BASS	241	180	93.4
UPSTREAM I-55	402	15AUG13	LARGEMOUTH BASS	233	180	104.0
UPSTREAM I-55	402	15AUG13	LARGEMOUTH BASS	244	165	82.3
UPSTREAM I-55	402	15AUG13	LARGEMOUTH BASS	243	195	98.5
UPSTREAM I-55	402A	15AUG13	LARGEMOUTH BASS	212	120	93.7
UPSTREAM I-55	402A	15AUG13	LARGEMOUTH BASS	258	275	114.8
UPSTREAM I-55	403	15AUG13	LARGEMOUTH BASS	337	550	97.9
UPSTREAM I-55	403	15AUG13	LARGEMOUTH BASS	256	230	98.4
UPSTREAM I-55	403A	15AUG13	LARGEMOUTH BASS	437	1130	87.8
UPSTREAM I-55	403A	15AUG13	LARGEMOUTH BASS	285	350	106.3
UPSTREAM I-55	403A	15AUG13	LARGEMOUTH BASS	162	69	127.1
UPSTREAM I-55	404A	15AUG13	LARGEMOUTH BASS	380	850	103.1
UPSTREAM I-55	404A	15AUG13	LARGEMOUTH BASS	278	300	98.7
UPSTREAM I-55	404A	15AUG13	LARGEMOUTH BASS	230	145	87.3
UPSTREAM I-55	404A	15AUG13	LARGEMOUTH BASS	257	220	93.0
UPSTREAM I-55	404A	15AUG13	LARGEMOUTH BASS	158	50	99.8
UPSTREAM I-55	404A	15AUG13	LARGEMOUTH BASS	199	112	107.0
UPSTREAM I-55	408	16AUG13	LARGEMOUTH BASS	277	300	99.8
UPSTREAM I-55	408	16AUG13	LARGEMOUTH BASS	209	100	81.7
UPSTREAM I-55	408	16AUG13	LARGEMOUTH BASS	380	920	111.6
UPSTREAM I-55	408	16AUG13	LARGEMOUTH BASS	332	610	113.9
UPSTREAM I-55	408	16AUG13	LARGEMOUTH BASS	236	150	83.2
UPSTREAM I-55	408	16AUG13	LARGEMOUTH BASS	267	215	80.4
UPSTREAM I-55	402	27AUG13	LARGEMOUTH BASS	281	360	114.4
UPSTREAM I-55	402	27AUG13	LARGEMOUTH BASS	242	210	107.5
UPSTREAM I-55	402	27AUG13	LARGEMOUTH BASS	247	215	103.1
UPSTREAM I-55	402	27AUG13	LARGEMOUTH BASS	261	220	88.5
UPSTREAM I-55	402	27AUG13	LARGEMOUTH BASS	205	106	92.2
UPSTREAM I-55	402	27AUG13	LARGEMOUTH BASS	215	102	76.2
UPSTREAM I-55	402A	27AUG13	LARGEMOUTH BASS	334	620	113.5
UPSTREAM I-55	402A	27AUG13	LARGEMOUTH BASS	302	380	96.0
UPSTREAM I-55	402A	27AUG13	LARGEMOUTH BASS	304	340	84.1
UPSTREAM I-55	402A	27AUG13	LARGEMOUTH BASS	166	51	86.9
UPSTREAM I-55	404A	27AUG13	LARGEMOUTH BASS	264	290	112.5
UPSTREAM I-55	404A	27AUG13	LARGEMOUTH BASS	237	210	114.9
UPSTREAM I-55	405	27AUG13	LARGEMOUTH BASS	315	540	119.2
UPSTREAM I-55	405	27AUG13	LARGEMOUTH BASS	260	270	109.9
UPSTREAM I-55	408	28AUG13	LARGEMOUTH BASS	274	310	106.8
UPSTREAM I-55	408	28AUG13	LARGEMOUTH BASS	325	410	81.9

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
UPSTREAM I-55	408	28AUG13	LARGEMOUTH BASS	252	190	85.5
UPSTREAM I-55	408	28AUG13	LARGEMOUTH BASS	291	330	93.8
UPSTREAM I-55	402	10SEP13	LARGEMOUTH BASS	361	600	85.7
UPSTREAM I-55	402	10SEP13	LARGEMOUTH BASS	248	220	104.2
UPSTREAM I-55	402A	10SEP13	LARGEMOUTH BASS	218	105	75.0
UPSTREAM I-55	402A	10SEP13	LARGEMOUTH BASS	250	215	99.2
UPSTREAM I-55	403A	10SEP13	LARGEMOUTH BASS	297	275	73.2
UPSTREAM I-55	403A	10SEP13	LARGEMOUTH BASS	252	230	103.5
UPSTREAM I-55	404A	10SEP13	LARGEMOUTH BASS	322	410	84.4
UPSTREAM I-55	408	10SEP13	LARGEMOUTH BASS	397	1010	106.6
UPSTREAM I-55	408	10SEP13	LARGEMOUTH BASS	202	110	100.2
UPSTREAM I-55	408	10SEP13	LARGEMOUTH BASS	220	145	100.6
UPSTREAM I-55	408	10SEP13	LARGEMOUTH BASS	275	310	105.5
UPSTREAM I-55	408	10SEP13	LARGEMOUTH BASS	272	260	91.7
UPSTREAM I-55	402	24SEP13	LARGEMOUTH BASS	172	80	121.8
UPSTREAM I-55	402A	24SEP13	LARGEMOUTH BASS	221	110	75.2
UPSTREAM I-55	403A	24SEP13	LARGEMOUTH BASS	228	150	92.9
UPSTREAM I-55	403A	24SEP13	LARGEMOUTH BASS	288	275	80.8
UPSTREAM I-55	404A	24SEP13	LARGEMOUTH BASS	213	140	107.7
UPSTREAM I-55	405	25SEP13	LARGEMOUTH BASS	290	335	96.3
UPSTREAM I-55	405	25SEP13	LARGEMOUTH BASS	187	85	99.1
UPSTREAM I-55	405	25SEP13	LARGEMOUTH BASS	175	70	100.8
UPSTREAM I-55	403A	02JUL13	BLACK CRAPPIE	170	70	100.5
UPSTREAM I-55	402A	24SEP13	BLACK CRAPPIE	212	135	92.6
UPSTREAM I-55	408	28AUG13	YELLOW PERCH	120	19	88.9
UPSTREAM I-55	408	10SEP13	YELLOW PERCH	105	13	93.6
UPSTREAM I-55	402	21MAY13	FRESHWATER DRUM	391	870	113.0
UPSTREAM I-55	402	21MAY13	FRESHWATER DRUM	521	2490	129.0
UPSTREAM I-55	402	21MAY13	FRESHWATER DRUM	481	1390	93.0
UPSTREAM I-55	402A	21MAY13	FRESHWATER DRUM	455	1250	99.9
UPSTREAM I-55	403A	21MAY13	FRESHWATER DRUM	342	540	107.7
UPSTREAM I-55	404A	21MAY13	FRESHWATER DRUM	410	915	102.1
UPSTREAM I-55	404A	21MAY13	FRESHWATER DRUM	372	720	109.7
UPSTREAM I-55	402	05JUN13	FRESHWATER DRUM	443	1270	110.6
UPSTREAM I-55	402	05JUN13	FRESHWATER DRUM	522	2180	112.2
UPSTREAM I-55	402A	05JUN13	FRESHWATER DRUM	392	770	99.2
UPSTREAM I-55	403A	05JUN13	FRESHWATER DRUM	478	1650	112.6
UPSTREAM I-55	403A	05JUN13	FRESHWATER DRUM	540	2310	106.7
UPSTREAM I-55	403A	05JUN13	FRESHWATER DRUM	223	100	78.5
UPSTREAM I-55	404A	05JUN13	FRESHWATER DRUM	391	990	128.6
UPSTREAM I-55	408	06JUN13	FRESHWATER DRUM	422	1100	111.9
UPSTREAM I-55	402	02JUL13	FRESHWATER DRUM	515	1860	100.0
UPSTREAM I-55	402	02JUL13	FRESHWATER DRUM	463	1140	86.2
UPSTREAM I-55	402	02JUL13	FRESHWATER DRUM	540	2315	106.9
UPSTREAM I-55	402	02JUL13	FRESHWATER DRUM	372	680	103.6
UPSTREAM I-55	402	02JUL13	FRESHWATER DRUM	421	800	82.0
UPSTREAM I-55	402	02JUL13	FRESHWATER DRUM	474	1800	126.2
UPSTREAM I-55	402	02JUL13	FRESHWATER DRUM	445	1310	112.4
UPSTREAM I-55	402A	02JUL13	FRESHWATER DRUM	470	1430	103.0
UPSTREAM I-55	402A	02JUL13	FRESHWATER DRUM	348	580	109.4
UPSTREAM I-55	402A	02JUL13	FRESHWATER DRUM	413	1010	110.1
UPSTREAM I-55	402A	02JUL13	FRESHWATER DRUM	345	600	116.4
UPSTREAM I-55	402A	02JUL13	FRESHWATER DRUM	455	1110	88.7
UPSTREAM I-55	402A	02JUL13	FRESHWATER DRUM	390	840	110.0
UPSTREAM I-55	403	02JUL13	FRESHWATER DRUM	365	700	113.4
UPSTREAM I-55	403A	02JUL13	FRESHWATER DRUM	419	960	99.9
UPSTREAM I-55	404A	02JUL13	FRESHWATER DRUM	466	1360	100.7
UPSTREAM I-55	402	15AUG13	FRESHWATER DRUM	556	2320	97.6
UPSTREAM I-55	402	15AUG13	FRESHWATER DRUM	467	1460	107.4
UPSTREAM I-55	402A	15AUG13	FRESHWATER DRUM	447	1320	111.7
UPSTREAM I-55	403	15AUG13	FRESHWATER DRUM	445	880	75.5
UPSTREAM I-55	403A	15AUG13	FRESHWATER DRUM	467	1390	102.2
UPSTREAM I-55	402	27AUG13	FRESHWATER DRUM	490	1530	96.5
UPSTREAM I-55	402A	27AUG13	FRESHWATER DRUM	442	1000	87.7
UPSTREAM I-55	405	27AUG13	FRESHWATER DRUM	443	1080	94.0
UPSTREAM I-55	402	10SEP13	FRESHWATER DRUM	560	3150	129.5
UPSTREAM I-55	402	10SEP13	FRESHWATER DRUM	398	720	88.4
UPSTREAM I-55	402A	10SEP13	FRESHWATER DRUM	452	1200	98.0
UPSTREAM I-55	404A	10SEP13	FRESHWATER DRUM	402	700	83.2
UPSTREAM I-55	405	10SEP13	FRESHWATER DRUM	380	550	78.3
UPSTREAM I-55	402	24SEP13	FRESHWATER DRUM	410	840	93.7
UPSTREAM I-55	402	24SEP13	FRESHWATER DRUM	464	1350	101.3
UPSTREAM I-55	402	24SEP13	FRESHWATER DRUM	460	1610	124.3
DOWNSTREAM I-55	412A	28AUG13	LONGNOSE GAR	713	820	76.6
DOWNSTREAM I-55	412A	22MAY13	GIZZARD SHAD	219	102	92.3
DOWNSTREAM I-55	412A	22MAY13	GIZZARD SHAD	230	105	81.4
DOWNSTREAM I-55	412A	22MAY13	GIZZARD SHAD	281	245	100.6
DOWNSTREAM I-55	414	22MAY13	GIZZARD SHAD	260	170	89.3
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	338	375	85.8
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	240	155	105.0
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	277	185	79.5
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	281	235	96.5
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	263	160	81.1
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	301	250	82.6
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	345	355	76.1
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	297	275	94.8

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	275	205	90.2
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	282	200	81.2
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	317	280	78.5
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	250	140	83.3
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	277	220	94.6
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	280	200	83.1
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	321	310	83.5
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	197	85	107.6
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	252	185	107.3
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	261	165	85.7
DOWNSTREAM I-55	418	22MAY13	GIZZARD SHAD	192	70	96.2
DOWNSTREAM I-55	419A	22MAY13	GIZZARD SHAD	241	145	96.9
DOWNSTREAM I-55	419A	22MAY13	GIZZARD SHAD	253	170	97.4
DOWNSTREAM I-55	419A	22MAY13	GIZZARD SHAD	238	140	97.4
DOWNSTREAM I-55	419A	22MAY13	GIZZARD SHAD	280	200	83.1
DOWNSTREAM I-55	412A	06JUN13	GIZZARD SHAD	254	195	110.3
DOWNSTREAM I-55	412A	06JUN13	GIZZARD SHAD	260	210	110.3
DOWNSTREAM I-55	412A	06JUN13	GIZZARD SHAD	238	140	97.4
DOWNSTREAM I-55	414	06JUN13	GIZZARD SHAD	243	170	110.7
DOWNSTREAM I-55	414	06JUN13	GIZZARD SHAD	223	130	111.1
DOWNSTREAM I-55	414	06JUN13	GIZZARD SHAD	215	125	120.0
DOWNSTREAM I-55	418	06JUN13	GIZZARD SHAD	294	270	96.1
DOWNSTREAM I-55	418	06JUN13	GIZZARD SHAD	268	170	81.1
DOWNSTREAM I-55	418	06JUN13	GIZZARD SHAD	273	190	85.5
DOWNSTREAM I-55	418	06JUN13	GIZZARD SHAD	222	130	112.7
DOWNSTREAM I-55	418	06JUN13	GIZZARD SHAD	218	82	75.3
DOWNSTREAM I-55	418	06JUN13	GIZZARD SHAD	226	90	73.7
DOWNSTREAM I-55	418	06JUN13	GIZZARD SHAD	181	54	89.4
DOWNSTREAM I-55	419A	06JUN13	GIZZARD SHAD	230	120	93.0
DOWNSTREAM I-55	419A	06JUN13	GIZZARD SHAD	244	170	109.3
DOWNSTREAM I-55	419A	06JUN13	GIZZARD SHAD	205	100	111.6
DOWNSTREAM I-55	412A	03JUL13	GIZZARD SHAD	230	125	96.9
DOWNSTREAM I-55	412A	03JUL13	GIZZARD SHAD	182	55	89.5
DOWNSTREAM I-55	414	03JUL13	GIZZARD SHAD	247	135	83.5
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	200	71	85.7
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	195	85	111.2
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	211	70	71.3
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	215	85	81.6
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	246	175	109.6
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	216	85	80.4
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	257	150	81.8
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	262	150	76.9
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	258	165	88.8
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	217	91	84.8
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	210	85	87.9
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	228	110	87.6
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	220	90	80.3
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	205	80	89.3
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	195	65	85.0
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	250	140	83.3
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	315	265	75.8
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	280	200	83.1
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	261	160	83.1
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	225	110	91.4
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	224	110	92.7
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	282	185	75.1
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	209	72	75.6
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	201	75	89.1
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	185	52	80.4
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	220	90	80.3
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	281	200	82.2
DOWNSTREAM I-55	418	03JUL13	GIZZARD SHAD	236	119	85.0
DOWNSTREAM I-55	419A	03JUL13	GIZZARD SHAD	315	340	97.2
DOWNSTREAM I-55	419A	03JUL13	GIZZARD SHAD	227	105	84.8
DOWNSTREAM I-55	419A	03JUL13	GIZZARD SHAD	267	180	86.9
DOWNSTREAM I-55	419A	03JUL13	GIZZARD SHAD	276	185	80.4
DOWNSTREAM I-55	412A	17JUL13	GIZZARD SHAD	301	215	71.0
DOWNSTREAM I-55	414	17JUL13	GIZZARD SHAD	273	210	94.5
DOWNSTREAM I-55	414	17JUL13	GIZZARD SHAD	247	115	71.1
DOWNSTREAM I-55	414	17JUL13	GIZZARD SHAD	230	110	85.3
DOWNSTREAM I-55	414	17JUL13	GIZZARD SHAD	221	86	75.6
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	270	165	76.9
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	235	120	86.9
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	282	210	85.3
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	236	125	89.3
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	237	135	95.1
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	275	230	101.2
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	240	120	81.3
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	283	205	82.3
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	288	210	79.8
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	191	70	97.8
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	247	150	92.7
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	247	145	89.6
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	197	65	82.3
DOWNSTREAM I-55	418	17JUL13	GIZZARD SHAD	245	135	85.6
DOWNSTREAM I-55	419A	17JUL13	GIZZARD SHAD	288	210	79.8

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	419A	17JUL13	GIZZARD SHAD	295	230	81.0
DOWNSTREAM I-55	419A	17JUL13	GIZZARD SHAD	297	275	94.8
DOWNSTREAM I-55	419A	17JUL13	GIZZARD SHAD	362	385	70.9
DOWNSTREAM I-55	412A	16AUG13	GIZZARD SHAD	204	75	85.0
DOWNSTREAM I-55	412A	16AUG13	GIZZARD SHAD	189	64	92.4
DOWNSTREAM I-55	412A	16AUG13	GIZZARD SHAD	307	250	77.6
DOWNSTREAM I-55	412A	16AUG13	GIZZARD SHAD	191	62	86.6
DOWNSTREAM I-55	412A	16AUG13	GIZZARD SHAD	211	95	96.8
DOWNSTREAM I-55	414	16AUG13	GIZZARD SHAD	223	100	85.5
DOWNSTREAM I-55	414	16AUG13	GIZZARD SHAD	182	50	81.4
DOWNSTREAM I-55	414	16AUG13	GIZZARD SHAD	259	150	79.8
DOWNSTREAM I-55	414	16AUG13	GIZZARD SHAD	213	90	89.0
DOWNSTREAM I-55	414	16AUG13	GIZZARD SHAD	196	62	79.8
DOWNSTREAM I-55	414	16AUG13	GIZZARD SHAD	220	100	89.2
DOWNSTREAM I-55	414	16AUG13	GIZZARD SHAD	194	62	82.4
DOWNSTREAM I-55	418	16AUG13	GIZZARD SHAD	201	65	77.2
DOWNSTREAM I-55	418	16AUG13	GIZZARD SHAD	261	160	83.1
DOWNSTREAM I-55	418	16AUG13	GIZZARD SHAD	205	65	72.6
DOWNSTREAM I-55	418	16AUG13	GIZZARD SHAD	227	110	88.9
DOWNSTREAM I-55	418	16AUG13	GIZZARD SHAD	223	95	81.2
DOWNSTREAM I-55	419A	16AUG13	GIZZARD SHAD	280	190	78.9
DOWNSTREAM I-55	419A	16AUG13	GIZZARD SHAD	284	180	71.5
DOWNSTREAM I-55	419A	16AUG13	GIZZARD SHAD	265	140	69.3
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	206	65	71.4
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	254	145	82.0
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	213	80	79.1
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	194	68	90.4
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	194	72	95.7
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	182	52	84.6
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	181	52	86.1
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	196	82	105.5
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	193	54	73.0
DOWNSTREAM I-55	412A	28AUG13	GIZZARD SHAD	183	51	81.6
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	325	370	95.8
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	279	190	79.8
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	279	180	75.6
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	268	165	78.8
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	329	285	71.0
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	318	290	80.5
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	273	150	67.5
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	193	74	100.0
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	202	70	81.9
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	192	68	93.4
DOWNSTREAM I-55	414	28AUG13	GIZZARD SHAD	272	160	72.9
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	242	115	75.9
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	292	220	80.0
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	268	180	85.9
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	313	225	65.7
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	257	135	73.6
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	274	190	84.5
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	266	170	83.1
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	221	92	80.9
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	222	95	82.4
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	262	130	66.7
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	209	82	86.1
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	202	74	86.6
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	244	125	80.3
DOWNSTREAM I-55	418	28AUG13	GIZZARD SHAD	202	78	91.2
DOWNSTREAM I-55	419A	28AUG13	GIZZARD SHAD	261	160	83.1
DOWNSTREAM I-55	419A	28AUG13	GIZZARD SHAD	272	160	72.9
DOWNSTREAM I-55	419A	28AUG13	GIZZARD SHAD	253	170	97.4
DOWNSTREAM I-55	419A	28AUG13	GIZZARD SHAD	220	95	84.8
DOWNSTREAM I-55	419A	28AUG13	GIZZARD SHAD	247	160	98.9
DOWNSTREAM I-55	412A	11SEP13	GIZZARD SHAD	231	121	92.5
DOWNSTREAM I-55	412A	11SEP13	GIZZARD SHAD	227	127	102.6
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	258	150	80.8
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	225	103	85.6
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	358	320	61.0
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	286	195	75.7
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	194	74	98.4
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	253	120	68.8
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	197	72	91.2
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	207	88	95.2
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	240	105	71.1
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	292	175	63.6
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	253	120	68.8
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	316	260	73.6
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	277	145	62.3
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	198	72	89.7
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	183	62	99.2
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	243	115	74.9
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	257	145	79.0
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	278	190	80.7
DOWNSTREAM I-55	414	11SEP13	GIZZARD SHAD	300	230	76.8
DOWNSTREAM I-55	418	11SEP13	GIZZARD SHAD	277	165	70.9
DOWNSTREAM I-55	418	11SEP13	GIZZARD SHAD	271	150	69.1

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	418	11SEP13	GIZZARD SHAD	278	165	70.1
DOWNSTREAM I-55	418	11SEP13	GIZZARD SHAD	242	110	72.6
DOWNSTREAM I-55	418	11SEP13	GIZZARD SHAD	274	160	71.2
DOWNSTREAM I-55	419A	11SEP13	GIZZARD SHAD	200	88	106.2
DOWNSTREAM I-55	419A	11SEP13	GIZZARD SHAD	214	111	108.1
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	341	340	75.6
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	207	75	81.2
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	330	360	88.8
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	318	350	97.1
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	262	155	79.5
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	265	150	74.2
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	273	185	83.3
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	277	180	77.4
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	288	195	74.1
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	260	170	89.3
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	315	270	77.2
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	211	90	91.7
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	277	210	90.3
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	303	255	82.5
DOWNSTREAM I-55	414	25SEP13	GIZZARD SHAD	204	75	85.0
DOWNSTREAM I-55	418	25SEP13	GIZZARD SHAD	251	145	85.2
DOWNSTREAM I-55	418	25SEP13	GIZZARD SHAD	277	150	64.5
DOWNSTREAM I-55	418	25SEP13	GIZZARD SHAD	258	140	75.4
DOWNSTREAM I-55	418	25SEP13	GIZZARD SHAD	281	170	69.8
DOWNSTREAM I-55	418	25SEP13	GIZZARD SHAD	268	170	81.1
DOWNSTREAM I-55	418	25SEP13	GIZZARD SHAD	227	80	64.6
DOWNSTREAM I-55	419A	25SEP13	GIZZARD SHAD	210	90	93.1
DOWNSTREAM I-55	419A	25SEP13	GIZZARD SHAD	250	140	83.3
DOWNSTREAM I-55	414	22MAY13	COMMON CARP	370	750	103.5
DOWNSTREAM I-55	414	22MAY13	COMMON CARP	586	3220	116.0
DOWNSTREAM I-55	419A	22MAY13	COMMON CARP	351	670	107.8
DOWNSTREAM I-55	419A	22MAY13	COMMON CARP	502	1670	94.6
DOWNSTREAM I-55	419A	22MAY13	COMMON CARP	525	2200	109.3
DOWNSTREAM I-55	419A	22MAY13	COMMON CARP	468	1380	95.9
DOWNSTREAM I-55	419A	03JUL13	COMMON CARP	270	300	103.9
DOWNSTREAM I-55	419A	03JUL13	COMMON CARP	271	305	104.5
DOWNSTREAM I-55	419A	03JUL13	COMMON CARP	643	3230	88.8
DOWNSTREAM I-55	418	17JUL13	COMMON CARP	302	415	103.6
DOWNSTREAM I-55	412A	16AUG13	COMMON CARP	383	750	93.6
DOWNSTREAM I-55	414	28AUG13	COMMON CARP	448	1160	91.6
DOWNSTREAM I-55	418	28AUG13	COMMON CARP	497	1500	87.4
DOWNSTREAM I-55	419A	28AUG13	COMMON CARP	313	470	105.7
DOWNSTREAM I-55	419A	28AUG13	COMMON CARP	278	330	104.9
DOWNSTREAM I-55	419A	28AUG13	COMMON CARP	557	2380	99.5
DOWNSTREAM I-55	414	11SEP13	COMMON CARP	476	1300	86.0
DOWNSTREAM I-55	414	11SEP13	COMMON CARP	437	990	84.0
DOWNSTREAM I-55	418	11SEP13	COMMON CARP	213	175	121.1
DOWNSTREAM I-55	419A	11SEP13	COMMON CARP	330	525	101.2
DOWNSTREAM I-55	414	25SEP13	COMMON CARP	577	3100	116.9
DOWNSTREAM I-55	414	25SEP13	COMMON CARP	588	2750	98.1
DOWNSTREAM I-55	414	06JUN13	GOLDEN SHINER	198	82	83.8
DOWNSTREAM I-55	419A	17JUL13	RIVER CARPSUCKER	472	1280	88.3
DOWNSTREAM I-55	419A	28AUG13	RIVER CARPSUCKER	413	880	90.5
DOWNSTREAM I-55	414	11SEP13	RIVER CARPSUCKER	462	1080	79.4
DOWNSTREAM I-55	414	25SEP13	RIVER CARPSUCKER	487	1280	80.4
DOWNSTREAM I-55	414	25SEP13	RIVER CARPSUCKER	460	1230	91.6
DOWNSTREAM I-55	418	22MAY13	SMALLMOUTH BUFFALO	418	1175	91.1
DOWNSTREAM I-55	418	22MAY13	SMALLMOUTH BUFFALO	490	1730	80.5
DOWNSTREAM I-55	414	06JUN13	SMALLMOUTH BUFFALO	570	2640	75.6
DOWNSTREAM I-55	414	06JUN13	SMALLMOUTH BUFFALO	460	2050	116.8
DOWNSTREAM I-55	418	06JUN13	SMALLMOUTH BUFFALO	510	2100	86.0
DOWNSTREAM I-55	419A	03JUL13	SMALLMOUTH BUFFALO	436	1375	93.1
DOWNSTREAM I-55	412A	28AUG13	SMALLMOUTH BUFFALO	452	1280	77.2
DOWNSTREAM I-55	419A	28AUG13	SMALLMOUTH BUFFALO	702	6400	94.0
DOWNSTREAM I-55	419A	28AUG13	SMALLMOUTH BUFFALO	528	3220	117.9
DOWNSTREAM I-55	419A	28AUG13	SMALLMOUTH BUFFALO	513	2030	81.6
DOWNSTREAM I-55	419A	28AUG13	SMALLMOUTH BUFFALO	453	1320	79.0
DOWNSTREAM I-55	419A	28AUG13	SMALLMOUTH BUFFALO	510	2040	83.5
DOWNSTREAM I-55	414	11SEP13	SMALLMOUTH BUFFALO	323	500	88.6
DOWNSTREAM I-55	414	11SEP13	SMALLMOUTH BUFFALO	517	2770	108.5
DOWNSTREAM I-55	419A	11SEP13	SMALLMOUTH BUFFALO	452	1440	86.8
DOWNSTREAM I-55	412A	22MAY13	SHORthead REDHORSE	282	220	84.3
DOWNSTREAM I-55	418	06JUN13	SHORthead REDHORSE	371	470	79.9
DOWNSTREAM I-55	414	22MAY13	YELLOW BULLHEAD	158	46	85.3
DOWNSTREAM I-55	414	22MAY13	YELLOW BULLHEAD	207	125	96.8
DOWNSTREAM I-55	414	06JUN13	YELLOW BULLHEAD	153	35	72.0
DOWNSTREAM I-55	414	03JUL13	YELLOW BULLHEAD	240	190	91.2
DOWNSTREAM I-55	414	03JUL13	YELLOW BULLHEAD	250	255	107.3
DOWNSTREAM I-55	418	03JUL13	YELLOW BULLHEAD	229	165	92.2
DOWNSTREAM I-55	418	17JUL13	YELLOW BULLHEAD	258	265	100.7
DOWNSTREAM I-55	414	11SEP13	YELLOW BULLHEAD	177	55	70.6
DOWNSTREAM I-55	414	25SEP13	YELLOW BULLHEAD	185	90	100.2
DOWNSTREAM I-55	414	22MAY13	CHANNEL CATFISH	470	1380	137.4
DOWNSTREAM I-55	414	22MAY13	CHANNEL CATFISH	588	2210	105.2
DOWNSTREAM I-55	419A	22MAY13	CHANNEL CATFISH	495	1170	98.2
DOWNSTREAM I-55	418	06JUN13	CHANNEL CATFISH	631	2790	105.3

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	414	03JUL13	CHANNEL CATFISH	538	1800	114.8
DOWNSTREAM I-55	418	03JUL13	CHANNEL CATFISH	498	1460	120.1
DOWNSTREAM I-55	418	17JUL13	CHANNEL CATFISH	475	1290	124.0
DOWNSTREAM I-55	414	28AUG13	CHANNEL CATFISH	490	1400	121.5
DOWNSTREAM I-55	419A	28AUG13	CHANNEL CATFISH	410	820	128.0
DOWNSTREAM I-55	419A	28AUG13	CHANNEL CATFISH	330	370	118.1
DOWNSTREAM I-55	419A	28AUG13	CHANNEL CATFISH	405	720	117.1
DOWNSTREAM I-55	419A	28AUG13	CHANNEL CATFISH	480	1180	109.6
DOWNSTREAM I-55	419A	28AUG13	CHANNEL CATFISH	362	430	101.2
DOWNSTREAM I-55	419A	28AUG13	CHANNEL CATFISH	382	640	126.1
DOWNSTREAM I-55	419A	28AUG13	CHANNEL CATFISH	380	480	96.3
DOWNSTREAM I-55	419A	11SEP13	CHANNEL CATFISH	411	720	111.5
DOWNSTREAM I-55	414	25SEP13	CHANNEL CATFISH	540	1490	93.9
DOWNSTREAM I-55	419A	16AUG13	FLATHEAD CATFISH	700	4200	94.5
DOWNSTREAM I-55	418	06JUN13	YELLOW BASS	194	115	108.4
DOWNSTREAM I-55	418	28AUG13	YELLOW BASS	81	8	116.4
DOWNSTREAM I-55	418	28AUG13	YELLOW BASS	86	9	108.5
DOWNSTREAM I-55	418	11SEP13	YELLOW BASS	80	7	105.9
DOWNSTREAM I-55	419A	22MAY13	ROCK BASS	204	200	106.7
DOWNSTREAM I-55	419A	11SEP13	ROCK BASS	188	125	85.7
DOWNSTREAM I-55	412A	22MAY13	GREEN SUNFISH	109	33	130.5
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	77	10	116.1
DOWNSTREAM I-55	412A	22MAY13	GREEN SUNFISH	116	32	104.3
DOWNSTREAM I-55	412A	22MAY13	GREEN SUNFISH	101	27	135.2
DOWNSTREAM I-55	412A	22MAY13	GREEN SUNFISH	67	7	125.2
DOWNSTREAM I-55	412A	22MAY13	GREEN SUNFISH	73	8	109.6
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	116	32	104.3
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	157	75	95.6
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	117	37	117.4
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	142	58	101.0
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	141	66	117.4
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	107	29	121.4
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	104	26	118.9
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	95	20	121.1
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	85	15	128.2
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	75	9	113.4
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	70	6	93.6
DOWNSTREAM I-55	414	22MAY13	GREEN SUNFISH	61	5	119.6
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	122	44	122.6
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	142	62	107.9
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	135	54	110.0
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	133	56	119.4
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	64	6	123.6
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	80	11	113.5
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	99	21	111.9
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	88	15	115.1
DOWNSTREAM I-55	418	22MAY13	GREEN SUNFISH	70	7	109.3
DOWNSTREAM I-55	419A	22MAY13	GREEN SUNFISH	123	48	130.5
DOWNSTREAM I-55	419A	22MAY13	GREEN SUNFISH	80	11	113.5
DOWNSTREAM I-55	419A	22MAY13	GREEN SUNFISH	60	5	125.9
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	80	11	113.5
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	137	71	138.1
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	90	20	143.2
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	90	19	136.0
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	106	34	146.6
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	113	37	130.8
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	85	13	111.1
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	70	8	124.9
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	68	6	102.5
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	72	8	114.4
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	83	12	110.4
DOWNSTREAM I-55	414	06JUN13	GREEN SUNFISH	67	7	125.2
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	143	54	92.0
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	136	55	109.5
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	121	38	108.7
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	131	49	109.5
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	123	46	125.0
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	87	18	143.2
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	93	20	129.3
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	73	10	137.0
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	77	11	127.8
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	94	20	125.1
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	70	7	109.3
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	60	5	125.9
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	92	19	127.1
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	95	19	115.0
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	110	35	134.5
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	106	26	112.1
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	63	6	129.8
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	107	28	117.2
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	67	7	125.2
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	76	11	133.0
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	72	7	100.1
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	63	6	129.8
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	71	8	119.5
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	63	6	129.8

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	80	13	134.1
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	77	12	139.4
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	66	6	112.4
DOWNSTREAM I-55	418	06JUN13	GREEN SUNFISH	66	6	112.4
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	164	95	105.8
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	61	5	119.6
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	62	6	136.4
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	88	17	130.5
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	72	8	114.4
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	93	19	122.9
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	63	6	129.8
DOWNSTREAM I-55	419A	06JUN13	GREEN SUNFISH	66	7	131.1
DOWNSTREAM I-55	412A	03JUL13	GREEN SUNFISH	79	10	107.3
DOWNSTREAM I-55	412A	03JUL13	GREEN SUNFISH	60	5	125.9
DOWNSTREAM I-55	414	03JUL13	GREEN SUNFISH	149	76	114.0
DOWNSTREAM I-55	414	03JUL13	GREEN SUNFISH	105	30	133.2
DOWNSTREAM I-55	414	03JUL13	GREEN SUNFISH	80	11	113.5
DOWNSTREAM I-55	414	03JUL13	GREEN SUNFISH	74	9	118.2
DOWNSTREAM I-55	414	03JUL13	GREEN SUNFISH	65	6	117.8
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	130	47	107.6
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	131	59	131.9
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	130	41	93.9
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	119	40	120.4
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	117	35	111.1
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	122	40	111.5
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	134	57	118.8
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	120	38	111.5
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	117	37	117.4
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	83	14	128.8
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	91	18	124.5
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	83	14	128.8
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	66	6	112.4
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	73	9	123.3
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	77	11	127.8
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	80	11	113.5
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	118	35	108.2
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	114	34	117.0
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	69	7	114.2
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	75	8	100.8
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	70	7	109.3
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	81	13	129.0
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	81	12	119.1
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	68	8	136.6
DOWNSTREAM I-55	418	03JUL13	GREEN SUNFISH	69	7	114.2
DOWNSTREAM I-55	419A	03JUL13	GREEN SUNFISH	66	6	112.4
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	85	17	145.3
DOWNSTREAM I-55	419A	17JUL13	GREEN SUNFISH	123	45	122.3
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	127	41	100.9
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	80	13	134.1
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	92	18	120.4
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	93	21	135.8
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	69	7	114.2
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	66	7	131.1
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	61	5	119.6
DOWNSTREAM I-55	414	17JUL13	GREEN SUNFISH	63	6	129.8
DOWNSTREAM I-55	418	17JUL13	GREEN SUNFISH	126	39	98.4
DOWNSTREAM I-55	418	17JUL13	GREEN SUNFISH	93	19	122.9
DOWNSTREAM I-55	418	17JUL13	GREEN SUNFISH	84	14	124.1
DOWNSTREAM I-55	418	17JUL13	GREEN SUNFISH	71	9	134.4
DOWNSTREAM I-55	419A	17JUL13	GREEN SUNFISH	110	34	130.7
DOWNSTREAM I-55	419A	17JUL13	GREEN SUNFISH	90	19	136.0
DOWNSTREAM I-55	414	16AUG13	GREEN SUNFISH	101	27	135.2
DOWNSTREAM I-55	414	16AUG13	GREEN SUNFISH	102	26	126.3
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	112	32	116.3
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	77	10	116.1
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	78	10	111.6
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	94	21	131.4
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	62	6	136.4
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	63	6	129.8
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	86	13	107.2
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	98	23	126.5
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	75	11	138.6
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	78	11	122.7
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	72	8	114.4
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	82	12	114.7
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	88	16	122.8
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	76	11	133.0
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	69	7	114.2
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	72	9	128.7
DOWNSTREAM I-55	418	16AUG13	GREEN SUNFISH	75	10	126.0
DOWNSTREAM I-55	419A	16AUG13	GREEN SUNFISH	67	7	125.2
DOWNSTREAM I-55	414	28AUG13	GREEN SUNFISH	75	9	113.4
DOWNSTREAM I-55	414	28AUG13	GREEN SUNFISH	91	18	124.5
DOWNSTREAM I-55	414	28AUG13	GREEN SUNFISH	94	19	118.9
DOWNSTREAM I-55	418	28AUG13	GREEN SUNFISH	126	51	128.6
DOWNSTREAM I-55	418	28AUG13	GREEN SUNFISH	133	55	117.3

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	78	12	133.9
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	85	13	111.1
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	72	9	128.7
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	63	6	129.8
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	69	7	114.2
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	80	12	123.8
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	87	17	135.2
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	81	12	119.1
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	62	6	136.4
DOWNSTREAM I-55	419A	28AUG13	GREEN SUNFISH	64	6	123.6
DOWNSTREAM I-55	412A	11SEP13	GREEN SUNFISH	65	6	117.8
DOWNSTREAM I-55	414	11SEP13	GREEN SUNFISH	117	41	130.1
DOWNSTREAM I-55	414	11SEP13	GREEN SUNFISH	87	13	103.4
DOWNSTREAM I-55	418	11SEP13	GREEN SUNFISH	108	25	101.7
DOWNSTREAM I-55	419A	11SEP13	GREEN SUNFISH	79	11	118.0
DOWNSTREAM I-55	419A	11SEP13	GREEN SUNFISH	79	10	107.3
DOWNSTREAM I-55	419A	11SEP13	GREEN SUNFISH	78	11	122.7
DOWNSTREAM I-55	419A	11SEP13	GREEN SUNFISH	92	17	113.7
DOWNSTREAM I-55	419A	11SEP13	GREEN SUNFISH	80	11	113.5
DOWNSTREAM I-55	419A	11SEP13	GREEN SUNFISH	74	9	118.2
DOWNSTREAM I-55	412A	25SEP13	GREEN SUNFISH	69	9	146.9
DOWNSTREAM I-55	412A	25SEP13	GREEN SUNFISH	66	6	112.4
DOWNSTREAM I-55	412A	25SEP13	GREEN SUNFISH	95	17	102.9
DOWNSTREAM I-55	414	25SEP13	GREEN SUNFISH	136	53	105.5
DOWNSTREAM I-55	414	25SEP13	GREEN SUNFISH	96	20	117.2
DOWNSTREAM I-55	418	25SEP13	GREEN SUNFISH	118	38	117.5
DOWNSTREAM I-55	418	25SEP13	GREEN SUNFISH	89	16	118.6
DOWNSTREAM I-55	418	25SEP13	GREEN SUNFISH	84	13	115.3
DOWNSTREAM I-55	418	25SEP13	GREEN SUNFISH	91	17	117.6
DOWNSTREAM I-55	418	25SEP13	GREEN SUNFISH	70	8	124.9
DOWNSTREAM I-55	418	25SEP13	GREEN SUNFISH	100	21	108.4
DOWNSTREAM I-55	418	25SEP13	GREEN SUNFISH	107	28	117.2
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	70	7	112.6
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	70	7	112.6
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	65	6	122.7
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	63	6	135.7
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	68	6	106.0
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	50	3	143.4
DOWNSTREAM I-55	412A	22MAY13	PUMPKINSEED	58	4	118.3
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	52	3	126.3
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	75	9	115.8
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	58	4	118.3
DOWNSTREAM I-55	414	22MAY13	PUMPKINSEED	51	3	134.5
DOWNSTREAM I-55	418	22MAY13	PUMPKINSEED	142	65	105.9
DOWNSTREAM I-55	419A	22MAY13	PUMPKINSEED	78	9	102.0
DOWNSTREAM I-55	414	06JUN13	PUMPKINSEED	67	7	129.7
DOWNSTREAM I-55	414	06JUN13	PUMPKINSEED	75	9	115.8
DOWNSTREAM I-55	414	06JUN13	PUMPKINSEED	127	51	119.3
DOWNSTREAM I-55	414	06JUN13	PUMPKINSEED	93	19	121.8
DOWNSTREAM I-55	414	06JUN13	PUMPKINSEED	78	10	113.3
DOWNSTREAM I-55	414	06JUN13	PUMPKINSEED	84	15	133.7
DOWNSTREAM I-55	418	06JUN13	PUMPKINSEED	79	12	130.5
DOWNSTREAM I-55	412A	03JUL13	PUMPKINSEED	99	21	110.0
DOWNSTREAM I-55	412A	03JUL13	PUMPKINSEED	100	23	116.6
DOWNSTREAM I-55	412A	17JUL13	PUMPKINSEED	90	19	135.5
DOWNSTREAM I-55	414	17JUL13	PUMPKINSEED	137	58	106.1
DOWNSTREAM I-55	414	17JUL13	PUMPKINSEED	141	61	101.7
DOWNSTREAM I-55	414	17JUL13	PUMPKINSEED	142	65	105.9
DOWNSTREAM I-55	412A	16AUG13	PUMPKINSEED	103	28	129.0
DOWNSTREAM I-55	412A	28AUG13	PUMPKINSEED	122	36	95.9
DOWNSTREAM I-55	412A	28AUG13	PUMPKINSEED	103	26	119.8
DOWNSTREAM I-55	414	28AUG13	PUMPKINSEED	58	4	118.3
DOWNSTREAM I-55	414	28AUG13	PUMPKINSEED	64	6	129.0
DOWNSTREAM I-55	418	28AUG13	PUMPKINSEED	54	3	111.8
DOWNSTREAM I-55	412A	11SEP13	PUMPKINSEED	132	50	103.2
DOWNSTREAM I-55	414	11SEP13	PUMPKINSEED	67	6	111.2
DOWNSTREAM I-55	412A	25SEP13	PUMPKINSEED	63	5	113.1
DOWNSTREAM I-55	412A	25SEP13	PUMPKINSEED	56	4	132.5
DOWNSTREAM I-55	412A	25SEP13	PUMPKINSEED	62	5	119.1
DOWNSTREAM I-55	412A	25SEP13	PUMPKINSEED	73	8	112.3
DOWNSTREAM I-55	414	25SEP13	PUMPKINSEED	103	21	96.8
DOWNSTREAM I-55	414	25SEP13	PUMPKINSEED	127	52	121.6
DOWNSTREAM I-55	418	25SEP13	PUMPKINSEED	78	10	113.3
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	88	12	101.2
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	107	23	101.5
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	100	20	110.4
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	128	46	112.0
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	140	46	83.2
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	98	15	88.5
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	133	43	92.2
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	158	85	103.0
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	165	81	85.0
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	127	41	102.5
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	153	67	90.3
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	139	51	94.5
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	103	17	85.1

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	108	20	85.5
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	126	31	79.5
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	105	24	112.7
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	98	18	106.3
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	107	20	88.2
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	117	27	88.6
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	115	27	93.8
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	105	18	84.5
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	116	27	91.1
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	88	11	92.8
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	107	22	97.0
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	122	27	77.1
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	110	24	96.6
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	110	21	84.5
DOWNSTREAM I-55	412A	22MAY13	BLUEGILL	108	20	85.5
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	158	75	90.8
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	163	95	103.8
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	157	92	113.8
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	154	65	85.7
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	176	120	101.6
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	158	74	89.6
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	142	54	93.2
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	147	55	84.6
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	134	47	98.3
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	122	35	99.9
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	142	55	94.9
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	153	76	102.4
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	137	51	99.1
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	117	32	105.0
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	107	25	110.3
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	98	18	106.3
DOWNSTREAM I-55	414	22MAY13	BLUEGILL	120	40	120.6
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	170	150	142.5
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	134	47	98.3
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	136	52	103.6
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	108	23	98.4
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	98	18	106.3
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	117	28	91.8
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	152	71	97.8
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	156	85	107.4
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	174	110	96.8
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	159	70	83.0
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	137	60	116.6
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	122	33	94.2
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	112	28	106.2
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	119	32	99.2
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	117	30	98.4
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	125	41	108.0
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	110	24	96.6
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	108	25	106.9
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	124	34	92.0
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	132	37	81.4
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	111	22	85.9
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	108	25	106.9
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	131	47	106.0
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	91	13	98.1
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	116	28	94.5
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	117	31	101.7
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	102	18	93.1
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	112	22	83.4
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	119	37	114.7
DOWNSTREAM I-55	418	22MAY13	BLUEGILL	130	47	108.7
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	124	37	100.1
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	121	32	93.9
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	108	22	94.1
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	106	21	95.6
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	105	19	89.2
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	133	46	98.6
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	107	23	101.5
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	142	51	88.0
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	108	22	94.1
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	142	54	93.2
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	107	20	88.2
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	142	50	86.3
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	123	30	83.4
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	134	48	100.4
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	102	16	82.7
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	118	29	92.5
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	117	32	105.0
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	103	18	90.1
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	108	24	102.7
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	100	18	99.4
DOWNSTREAM I-55	419A	22MAY13	BLUEGILL	84	11	108.3
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	99	23	131.3
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	112	28	106.2
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	153	79	106.5

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	98	22	129.9
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	92	16	116.5
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	98	21	124.0
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	128	43	104.7
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	124	39	105.5
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	87	15	131.4
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	137	52	101.1
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	115	32	111.1
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	80	9	104.1
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	96	19	120.1
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	80	11	127.3
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	112	30	113.7
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	104	22	106.6
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	94	18	122.0
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	80	11	127.3
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	95	16	104.7
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	80	11	127.3
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	105	23	108.0
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	107	28	123.5
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	115	27	93.8
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	94	19	128.8
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	102	21	108.6
DOWNSTREAM I-55	412A	06JUN13	BLUEGILL	97	19	116.0
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	163	80	87.4
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	144	62	102.2
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	99	20	114.2
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	82	11	117.3
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	151	85	119.7
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	153	75	101.1
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	113	21	77.3
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	127	52	130.0
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	113	33	121.5
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	113	30	110.4
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	102	22	113.7
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	117	37	121.4
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	109	21	87.1
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	113	27	99.4
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	153	82	110.5
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	157	88	108.9
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	105	18	84.5
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	118	24	76.5
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	131	51	115.0
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	113	28	103.1
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	134	51	106.7
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	132	49	107.7
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	128	41	99.8
DOWNSTREAM I-55	414	06JUN13	BLUEGILL	82	10	106.6
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	153	68	91.6
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	176	120	101.6
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	148	58	87.3
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	130	44	101.8
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	96	14	88.5
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	121	38	111.5
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	96	20	126.4
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	121	38	111.5
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	121	34	99.8
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	113	22	81.0
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	152	54	74.4
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	132	42	92.3
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	123	44	122.3
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	82	7	74.6
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	168	85	84.0
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	148	75	112.8
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	113	29	106.8
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	141	58	102.5
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	113	30	110.4
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	91	12	90.6
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	121	32	93.9
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	132	38	83.6
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	161	65	74.0
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	137	59	114.7
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	131	44	99.2
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	141	54	95.4
DOWNSTREAM I-55	418	06JUN13	BLUEGILL	128	42	102.3
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	157	78	96.5
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	132	44	96.7
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	80	10	115.7
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	84	12	118.1
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	99	20	114.2
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	100	23	127.0
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	112	29	109.9
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	99	21	119.9
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	80	12	138.8
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	93	16	112.4
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	90	13	101.8
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	98	21	124.0

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	101	21	112.2
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	98	24	141.7
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	126	47	120.6
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	117	35	114.8
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	110	25	100.6
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	100	20	110.4
DOWNSTREAM I-55	419A	06JUN13	BLUEGILL	114	30	107.3
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	150	78	112.2
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	135	50	102.0
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	97	17	103.8
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	106	23	104.7
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	121	34	99.8
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	83	11	112.6
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	96	17	107.5
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	94	18	122.0
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	111	28	109.4
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	82	11	117.3
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	83	11	112.6
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	116	29	97.9
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	85	12	113.6
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	85	12	113.6
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	111	26	101.6
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	121	40	117.4
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	116	32	108.0
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	112	28	106.2
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	110	30	120.7
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	145	56	90.2
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	157	81	100.2
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	156	85	107.4
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	140	52	94.1
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	150	75	107.9
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	130	49	113.3
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	148	64	96.3
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	144	60	98.9
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	140	60	108.5
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	120	30	90.5
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	115	32	111.1
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	143	56	94.4
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	182	135	102.3
DOWNSTREAM I-55	414	03JUL13	BLUEGILL	133	45	96.5
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	127	46	115.0
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	143	59	99.5
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	138	49	93.0
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	115	27	93.8
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	117	33	108.2
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	121	32	93.9
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	162	100	111.5
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	160	105	122.0
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	159	100	118.6
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	143	59	99.5
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	122	42	119.9
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	156	84	106.1
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	152	68	93.7
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	105	25	117.4
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	104	25	121.2
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	95	18	117.8
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	107	23	101.5
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	115	29	100.7
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	117	30	98.4
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	107	19	83.8
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	133	53	113.7
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	119	31	96.1
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	108	27	115.5
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	127	42	105.0
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	112	28	106.2
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	106	21	95.6
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	80	9	104.1
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	85	11	104.1
DOWNSTREAM I-55	419A	03JUL13	BLUEGILL	97	17	103.8
DOWNSTREAM I-55	412A	03JUL13	BLUEGILL	82	12	127.9
DOWNSTREAM I-55	418	03JUL13	BLUEGILL	155	76	98.1
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	108	31	132.6
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	88	15	126.5
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	129	42	99.7
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	148	61	91.8
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	146	76	119.6
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	148	74	111.3
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	153	61	82.2
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	132	44	96.7
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	107	27	119.1
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	155	62	80.0
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	147	65	100.0
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	138	56	106.3
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	138	47	89.2
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	143	61	102.9
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	140	62	112.2

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	140	55	99.5
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	152	57	78.5
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	135	50	102.0
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	108	24	102.7
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	151	70	98.5
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	100	23	127.0
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	105	27	126.8
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	91	17	128.3
DOWNSTREAM I-55	412A	17JUL13	BLUEGILL	111	31	121.1
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	98	18	106.3
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	128	39	95.0
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	112	29	109.9
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	100	20	110.4
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	108	27	115.5
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	148	64	96.3
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	141	60	106.0
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	140	66	119.4
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	130	41	94.8
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	136	42	83.6
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	118	30	95.7
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	103	18	90.1
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	122	36	102.8
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	105	21	98.6
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	142	51	88.0
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	130	50	115.6
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	152	75	103.3
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	138	60	113.8
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	120	35	105.6
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	160	78	90.6
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	150	59	84.9
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	171	100	93.2
DOWNSTREAM I-55	414	17JUL13	BLUEGILL	104	26	126.0
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	106	20	91.0
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	123	35	97.3
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	173	90	80.7
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	150	65	93.5
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	122	32	91.4
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	123	32	88.9
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	110	24	96.6
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	125	36	94.8
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	164	91	97.4
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	138	57	108.2
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	144	60	98.9
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	150	61	87.8
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	137	50	97.2
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	157	91	112.6
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	132	49	107.7
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	123	34	94.5
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	127	40	100.0
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	108	27	115.5
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	152	62	85.4
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	120	32	96.5
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	110	21	84.5
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	97	15	91.6
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	122	32	91.4
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	138	52	98.7
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	108	26	111.2
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	105	26	122.1
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	97	22	134.4
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	80	11	127.3
DOWNSTREAM I-55	418	17JUL13	BLUEGILL	81	11	122.1
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	165	82	86.0
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	147	66	101.6
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	152	67	92.3
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	150	57	82.0
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	142	62	107.0
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	167	94	94.8
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	161	91	103.6
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	162	82	91.4
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	147	52	80.0
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	114	23	82.2
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	170	105	99.8
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	138	49	93.0
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	121	37	108.6
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	112	30	113.7
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	103	20	100.1
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	112	29	109.9
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	110	26	104.6
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	97	14	85.5
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	106	27	122.9
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	84	12	118.1
DOWNSTREAM I-55	419A	17JUL13	BLUEGILL	108	19	81.3
DOWNSTREAM I-55	412A	16AUG13	BLUEGILL	114	34	121.6
DOWNSTREAM I-55	412A	16AUG13	BLUEGILL	82	12	127.9
DOWNSTREAM I-55	412A	16AUG13	BLUEGILL	112	31	117.5
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	158	82	99.3

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	126	40	102.6
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	115	30	104.2
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	151	62	87.3
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	142	58	100.1
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	144	60	98.9
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	115	32	111.1
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	126	36	92.4
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	129	46	109.2
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	113	28	103.1
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	112	28	106.2
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	125	38	100.1
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	124	40	108.2
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	130	40	92.5
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	136	52	103.6
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	111	32	125.0
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	107	24	105.9
DOWNSTREAM I-55	418	16AUG13	BLUEGILL	136	51	101.6
DOWNSTREAM I-55	418	16AUG13	BLUEGILL	112	25	94.8
DOWNSTREAM I-55	418	16AUG13	BLUEGILL	137	52	101.1
DOWNSTREAM I-55	418	16AUG13	BLUEGILL	119	33	102.3
DOWNSTREAM I-55	418	16AUG13	BLUEGILL	122	37	105.6
DOWNSTREAM I-55	418	16AUG13	BLUEGILL	84	13	127.9
DOWNSTREAM I-55	419A	16AUG13	BLUEGILL	146	55	86.6
DOWNSTREAM I-55	419A	16AUG13	BLUEGILL	115	28	97.2
DOWNSTREAM I-55	419A	16AUG13	BLUEGILL	135	50	102.0
DOWNSTREAM I-55	419A	16AUG13	BLUEGILL	130	40	92.5
DOWNSTREAM I-55	419A	16AUG13	BLUEGILL	152	52	71.6
DOWNSTREAM I-55	419A	16AUG13	BLUEGILL	89	14	113.7
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	120	40	120.6
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	114	34	121.6
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	117	35	114.8
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	101	21	112.2
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	151	76	107.0
DOWNSTREAM I-55	414	16AUG13	BLUEGILL	117	34	111.5
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	138	54	102.5
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	98	22	129.9
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	95	17	111.3
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	108	27	115.5
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	90	17	133.1
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	88	14	118.1
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	84	12	118.1
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	90	14	109.6
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	82	11	117.3
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	157	80	99.0
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	152	75	103.3
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	130	46	106.4
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	128	37	90.1
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	124	39	105.5
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	130	42	97.1
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	124	38	102.8
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	142	63	108.7
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	137	50	97.2
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	143	52	87.7
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	124	37	100.1
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	143	43	72.5
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	143	44	74.2
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	122	33	94.2
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	122	36	102.8
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	136	42	83.6
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	110	25	100.6
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	131	46	103.7
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	122	41	117.1
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	138	51	96.8
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	122	39	111.4
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	122	41	117.1
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	138	49	93.0
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	143	65	109.6
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	127	39	97.5
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	124	39	105.5
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	137	43	83.6
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	144	74	121.9
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	122	39	111.4
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	109	27	112.0
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	103	23	115.1
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	83	12	122.9
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	97	18	109.9
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	108	30	128.3
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	109	31	128.6
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	88	14	118.1
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	162	75	83.6
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	136	50	99.6
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	160	95	110.4
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	152	72	99.2
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	149	64	94.2
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	118	39	124.4
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	94	17	115.2

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	103	23	115.1
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	104	23	111.5
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	110	27	108.7
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	125	43	113.3
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	83	12	122.9
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	86	13	118.3
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	126	45	115.4
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	109	30	124.5
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	95	18	117.8
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	133	46	98.6
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	95	18	117.8
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	94	16	108.4
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	83	12	122.9
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	97	18	109.9
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	108	27	115.5
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	102	23	118.9
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	119	38	117.8
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	88	14	118.1
DOWNSTREAM I-55	419A	28AUG13	BLUEGILL	91	15	113.2
DOWNSTREAM I-55	412A	28AUG13	BLUEGILL	100	26	143.5
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	125	43	113.3
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	110	26	104.6
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	134	55	115.0
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	91	16	120.8
DOWNSTREAM I-55	414	28AUG13	BLUEGILL	110	29	116.7
DOWNSTREAM I-55	418	28AUG13	BLUEGILL	101	23	122.9
DOWNSTREAM I-55	412A	11SEP13	BLUEGILL	153	56	75.5
DOWNSTREAM I-55	412A	11SEP13	BLUEGILL	150	70	100.7
DOWNSTREAM I-55	412A	11SEP13	BLUEGILL	128	40	97.4
DOWNSTREAM I-55	412A	11SEP13	BLUEGILL	102	18	93.1
DOWNSTREAM I-55	412A	11SEP13	BLUEGILL	107	25	110.3
DOWNSTREAM I-55	412A	11SEP13	BLUEGILL	96	20	126.4
DOWNSTREAM I-55	412A	11SEP13	BLUEGILL	91	16	120.8
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	142	56	96.6
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	119	34	105.4
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	147	64	98.5
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	123	37	102.8
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	108	22	94.1
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	129	40	94.9
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	117	28	91.8
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	129	42	99.7
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	116	26	87.7
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	113	25	92.0
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	93	16	112.4
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	108	23	98.4
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	137	50	97.2
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	132	51	112.1
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	141	56	98.9
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	150	73	105.1
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	133	42	90.1
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	135	50	102.0
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	142	64	110.5
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	154	86	113.4
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	163	99	108.1
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	151	61	85.9
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	152	71	97.8
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	147	62	95.4
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	154	91	120.0
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	129	39	92.5
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	136	45	89.6
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	130	48	111.0
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	154	65	85.7
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	117	30	98.4
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	162	80	89.2
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	86	13	118.3
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	95	17	111.3
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	112	28	106.2
DOWNSTREAM I-55	418	11SEP13	BLUEGILL	90	14	109.6
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	135	39	79.6
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	131	41	92.5
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	121	34	99.8
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	123	37	102.8
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	108	23	98.4
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	127	38	95.0
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	108	23	98.4
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	145	61	98.2
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	81	10	111.0
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	94	16	108.4
DOWNSTREAM I-55	419A	11SEP13	BLUEGILL	99	21	119.9
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	109	28	116.2
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	115	33	114.6
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	87	13	113.9
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	114	35	125.1
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	90	16	125.3
DOWNSTREAM I-55	414	11SEP13	BLUEGILL	93	17	119.4
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	143	62	104.5

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	112	25	94.8
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	118	37	118.0
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	136	44	87.6
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	117	32	105.0
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	115	28	97.2
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	117	27	88.6
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	98	16	94.5
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	149	66	97.1
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	115	27	93.8
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	93	14	98.3
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	85	12	113.6
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	152	75	103.3
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	147	61	93.9
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	132	47	103.3
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	117	29	95.1
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	119	30	93.0
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	110	22	88.5
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	128	43	104.7
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	110	25	100.6
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	130	48	111.0
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	113	28	103.1
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	107	22	97.0
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	132	49	107.7
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	98	19	112.2
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	142	56	96.6
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	98	17	100.4
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	132	46	101.1
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	153	80	107.8
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	131	45	101.5
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	142	56	96.6
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	110	28	112.7
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	123	33	91.7
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	115	27	93.8
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	100	18	99.4
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	102	19	98.2
DOWNSTREAM I-55	414	25SEP13	BLUEGILL	130	42	97.1
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	127	32	80.0
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	118	29	92.5
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	117	30	98.4
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	118	30	95.7
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	118	32	102.0
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	127	42	105.0
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	105	20	93.9
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	158	80	96.9
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	125	37	97.5
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	106	23	104.7
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	102	18	93.1
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	92	15	109.2
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	120	33	99.5
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	98	18	106.3
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	83	9	92.2
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	97	18	109.9
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	90	14	109.6
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	83	12	122.9
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	96	17	107.5
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	92	14	101.9
DOWNSTREAM I-55	419A	25SEP13	BLUEGILL	120	37	111.6
DOWNSTREAM I-55	419A	25SEP13	BLUEGILL	137	46	89.4
DOWNSTREAM I-55	412A	25SEP13	BLUEGILL	122	40	114.2
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	83	11	112.6
DOWNSTREAM I-55	418	25SEP13	BLUEGILL	123	35	97.3
DOWNSTREAM I-55	419A	03JUL13	SMALLMOUTH BASS	163	59	104.9
DOWNSTREAM I-55	419A	28AUG13	SMALLMOUTH BASS	182	82	102.5
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	396	1025	109.0
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	320	520	109.2
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	391	1020	113.0
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	237	195	106.7
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	207	105	88.5
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	268	330	122.0
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	354	700	106.5
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	255	240	104.0
DOWNSTREAM I-55	412A	22MAY13	LARGEMOUTH BASS	212	109	85.1
DOWNSTREAM I-55	414	22MAY13	LARGEMOUTH BASS	239	190	101.2
DOWNSTREAM I-55	414	22MAY13	LARGEMOUTH BASS	291	340	96.6
DOWNSTREAM I-55	414	22MAY13	LARGEMOUTH BASS	237	185	101.2
DOWNSTREAM I-55	414	22MAY13	LARGEMOUTH BASS	365	595	82.1
DOWNSTREAM I-55	414	22MAY13	LARGEMOUTH BASS	220	185	128.4
DOWNSTREAM I-55	414	22MAY13	LARGEMOUTH BASS	270	310	111.9
DOWNSTREAM I-55	414	22MAY13	LARGEMOUTH BASS	275	355	120.9
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	392	920	101.1
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	432	1190	95.9
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	457	1365	91.9
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	377	830	103.3
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	346	745	121.9
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	304	450	111.3
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	328	600	116.4

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	414	1195	110.3
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	302	450	113.6
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	177	61	84.7
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	307	400	95.9
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	343	620	104.3
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	391	940	104.1
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	366	750	102.6
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	357	710	105.1
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	263	290	113.8
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	260	240	97.7
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	242	205	105.0
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	182	74	94.0
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	350	740	116.7
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	268	290	107.2
DOWNSTREAM I-55	418	22MAY13	LARGEMOUTH BASS	327	480	94.0
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	181	76	98.3
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	293	460	127.9
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	307	430	103.0
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	208	130	107.9
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	197	100	98.7
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	224	170	111.4
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	226	210	133.7
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	198	120	116.6
DOWNSTREAM I-55	419A	22MAY13	LARGEMOUTH BASS	264	265	102.8
DOWNSTREAM I-55	412A	06JUN13	LARGEMOUTH BASS	272	220	77.6
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	280	320	102.9
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	272	280	98.7
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	262	280	111.3
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	232	180	105.4
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	384	900	105.6
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	336	615	110.5
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	213	120	92.3
DOWNSTREAM I-55	414	06JUN13	LARGEMOUTH BASS	152	45	101.6
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	378	720	88.8
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	253	270	120.0
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	374	690	88.1
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	420	1100	97.0
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	261	280	112.6
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	243	190	96.0
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	232	170	99.6
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	342	670	113.8
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	158	36	71.8
DOWNSTREAM I-55	418	06JUN13	LARGEMOUTH BASS	154	41	88.8
DOWNSTREAM I-55	419A	06JUN13	LARGEMOUTH BASS	281	380	120.8
DOWNSTREAM I-55	419A	06JUN13	LARGEMOUTH BASS	348	530	85.1
DOWNSTREAM I-55	419A	06JUN13	LARGEMOUTH BASS	271	310	110.6
DOWNSTREAM I-55	419A	06JUN13	LARGEMOUTH BASS	174	59	86.5
DOWNSTREAM I-55	419A	06JUN13	LARGEMOUTH BASS	213	120	92.3
DOWNSTREAM I-55	412A	03JUL13	LARGEMOUTH BASS	215	135	100.8
DOWNSTREAM I-55	412A	03JUL13	LARGEMOUTH BASS	172	60	91.3
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	351	860	134.4
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	260	260	105.9
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	213	140	107.7
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	287	350	104.0
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	173	65	97.1
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	416	785	71.3
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	264	280	108.6
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	224	145	95.0
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	156	49	101.8
DOWNSTREAM I-55	414	03JUL13	LARGEMOUTH BASS	195	104	106.1
DOWNSTREAM I-55	418	03JUL13	LARGEMOUTH BASS	263	265	104.0
DOWNSTREAM I-55	418	03JUL13	LARGEMOUTH BASS	234	180	102.6
DOWNSTREAM I-55	418	03JUL13	LARGEMOUTH BASS	300	365	94.1
DOWNSTREAM I-55	418	03JUL13	LARGEMOUTH BASS	292	345	97.0
DOWNSTREAM I-55	418	03JUL13	LARGEMOUTH BASS	327	430	84.2
DOWNSTREAM I-55	418	03JUL13	LARGEMOUTH BASS	296	410	110.4
DOWNSTREAM I-55	418	03JUL13	LARGEMOUTH BASS	212	135	105.4
DOWNSTREAM I-55	419A	03JUL13	LARGEMOUTH BASS	278	240	78.9
DOWNSTREAM I-55	419A	03JUL13	LARGEMOUTH BASS	250	240	110.8
DOWNSTREAM I-55	419A	03JUL13	LARGEMOUTH BASS	205	95	82.6
DOWNSTREAM I-55	419A	03JUL13	LARGEMOUTH BASS	220	160	111.0
DOWNSTREAM I-55	419A	03JUL13	LARGEMOUTH BASS	200	85	80.0
DOWNSTREAM I-55	412A	17JUL13	LARGEMOUTH BASS	243	210	106.1
DOWNSTREAM I-55	412A	17JUL13	LARGEMOUTH BASS	258	240	100.2
DOWNSTREAM I-55	412A	17JUL13	LARGEMOUTH BASS	205	110	95.6
DOWNSTREAM I-55	412A	17JUL13	LARGEMOUTH BASS	270	285	102.9
DOWNSTREAM I-55	412A	17JUL13	LARGEMOUTH BASS	171	61	94.6
DOWNSTREAM I-55	414	17JUL13	LARGEMOUTH BASS	172	54	82.2
DOWNSTREAM I-55	414	17JUL13	LARGEMOUTH BASS	293	325	90.4
DOWNSTREAM I-55	414	17JUL13	LARGEMOUTH BASS	321	530	110.2
DOWNSTREAM I-55	414	17JUL13	LARGEMOUTH BASS	289	370	107.5
DOWNSTREAM I-55	414	17JUL13	LARGEMOUTH BASS	268	220	81.3
DOWNSTREAM I-55	414	17JUL13	LARGEMOUTH BASS	192	85	91.1
DOWNSTREAM I-55	418	17JUL13	LARGEMOUTH BASS	245	210	103.4
DOWNSTREAM I-55	418	17JUL13	LARGEMOUTH BASS	351	720	112.5
DOWNSTREAM I-55	418	17JUL13	LARGEMOUTH BASS	432	1220	98.3

APPENDIX E (cont.)

SEGMENT	LOCATION	DATE	SPECIES	TOTAL LENGTH (mm)	WEIGHT (g)	RELATIVE WEIGHT
DOWNSTREAM I-55	418	17JUL13	LARGEMOUTH BASS	245	280	137.8
DOWNSTREAM I-55	418	17JUL13	LARGEMOUTH BASS	263	240	94.2
DOWNSTREAM I-55	418	17JUL13	LARGEMOUTH BASS	210	105	84.5
DOWNSTREAM I-55	419A	17JUL13	LARGEMOUTH BASS	290	300	86.2
DOWNSTREAM I-55	419A	17JUL13	LARGEMOUTH BASS	290	325	93.4
DOWNSTREAM I-55	419A	17JUL13	LARGEMOUTH BASS	277	330	109.8
DOWNSTREAM I-55	419A	17JUL13	LARGEMOUTH BASS	265	225	86.2
DOWNSTREAM I-55	419A	17JUL13	LARGEMOUTH BASS	273	300	104.6
DOWNSTREAM I-55	419A	17JUL13	LARGEMOUTH BASS	270	260	93.9
DOWNSTREAM I-55	419A	17JUL13	LARGEMOUTH BASS	235	170	95.6
DOWNSTREAM I-55	412A	16AUG13	LARGEMOUTH BASS	283	260	80.8
DOWNSTREAM I-55	412A	16AUG13	LARGEMOUTH BASS	211	120	95.1
DOWNSTREAM I-55	414	16AUG13	LARGEMOUTH BASS	298	300	79.0
DOWNSTREAM I-55	414	16AUG13	LARGEMOUTH BASS	194	96	99.5
DOWNSTREAM I-55	418	16AUG13	LARGEMOUTH BASS	270	240	86.6
DOWNSTREAM I-55	418	16AUG13	LARGEMOUTH BASS	402	910	92.2
DOWNSTREAM I-55	418	16AUG13	LARGEMOUTH BASS	270	205	74.0
DOWNSTREAM I-55	412A	28AUG13	LARGEMOUTH BASS	324	360	72.6
DOWNSTREAM I-55	412A	28AUG13	LARGEMOUTH BASS	169	58	93.4
DOWNSTREAM I-55	412A	28AUG13	LARGEMOUTH BASS	182	92	116.9
DOWNSTREAM I-55	414	28AUG13	LARGEMOUTH BASS	373	820	105.6
DOWNSTREAM I-55	414	28AUG13	LARGEMOUTH BASS	280	260	83.6
DOWNSTREAM I-55	418	28AUG13	LARGEMOUTH BASS	353	520	79.8
DOWNSTREAM I-55	418	28AUG13	LARGEMOUTH BASS	375	680	86.1
DOWNSTREAM I-55	418	28AUG13	LARGEMOUTH BASS	252	230	103.5
DOWNSTREAM I-55	418	28AUG13	LARGEMOUTH BASS	196	70	70.2
DOWNSTREAM I-55	419A	28AUG13	LARGEMOUTH BASS	410	1060	100.9
DOWNSTREAM I-55	419A	28AUG13	LARGEMOUTH BASS	253	240	106.6
DOWNSTREAM I-55	419A	28AUG13	LARGEMOUTH BASS	270	270	97.5
DOWNSTREAM I-55	419A	28AUG13	LARGEMOUTH BASS	208	122	101.3
DOWNSTREAM I-55	414	11SEP13	LARGEMOUTH BASS	310	405	94.1
DOWNSTREAM I-55	414	11SEP13	LARGEMOUTH BASS	326	440	87.1
DOWNSTREAM I-55	414	11SEP13	LARGEMOUTH BASS	217	115	83.4
DOWNSTREAM I-55	414	11SEP13	LARGEMOUTH BASS	250	200	92.3
DOWNSTREAM I-55	414	11SEP13	LARGEMOUTH BASS	187	65	75.8
DOWNSTREAM I-55	414	11SEP13	LARGEMOUTH BASS	268	265	98.0
DOWNSTREAM I-55	414	11SEP13	LARGEMOUTH BASS	197	95	93.8
DOWNSTREAM I-55	419A	11SEP13	LARGEMOUTH BASS	267	235	87.9
DOWNSTREAM I-55	419A	11SEP13	LARGEMOUTH BASS	191	80	87.2
DOWNSTREAM I-55	412A	25SEP13	LARGEMOUTH BASS	186	75	88.9
DOWNSTREAM I-55	412A	25SEP13	LARGEMOUTH BASS	181	75	97.0
DOWNSTREAM I-55	419A	25SEP13	LARGEMOUTH BASS	227	105	65.9
DOWNSTREAM I-55	418	06JUN13	FRESHWATER DRUM	380	750	106.8
DOWNSTREAM I-55	418	06JUN13	FRESHWATER DRUM	391	880	114.3
DOWNSTREAM I-55	418	06JUN13	FRESHWATER DRUM	271	230	96.7
DOWNSTREAM I-55	418	06JUN13	FRESHWATER DRUM	384	720	99.1
DOWNSTREAM I-55	418	06JUN13	FRESHWATER DRUM	291	310	103.8
DOWNSTREAM I-55	418	03JUL13	FRESHWATER DRUM	220	145	118.9
DOWNSTREAM I-55	414	28AUG13	FRESHWATER DRUM	344	450	88.1
DOWNSTREAM I-55	419A	28AUG13	FRESHWATER DRUM	388	700	93.2
DOWNSTREAM I-55	419A	28AUG13	FRESHWATER DRUM	408	800	90.7
DOWNSTREAM I-55	419A	28AUG13	FRESHWATER DRUM	432	1080	101.9
DOWNSTREAM I-55	418	25SEP13	FRESHWATER DRUM	265	150	67.8

APPENDIX F

INCIDENCE OF DISEASE, PARASITISM, AND ABNORMALITIES OF FISH

UPPER ILLINOIS WATERWAY – 2013

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APPENDIX F

TABLE F-1. COMPARISONS OF THE NUMBER AND PERCENTAGE OF FISH WITH DEFORMITIES AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY AND THE PERCENTAGE THAT DEFROMITIES CONTRIBUTED TO ALL DELT ANOMALIES COMBINED, 2013.

SPECIES	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		TOTAL WITH FIN DEFORMS	TOTAL WITH DELT ANOMALIES	PERCENT WITH FIN DEFORMS
	#	%	#	%	#	%	#	%			
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	1	100.0	--	--	1	1	100.0
GIZZARD SHAD	--	--	--	--	--	--	--	--	--	1	--
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	--	--	1	100.0	--	--	--	--	1	2	50.0
COMMON CARP	1	10.0	7	25.0	1	2.4	1	11.1	10	88	11.4
CARP X GOLDFISH HYBRID	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	--
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	1	100.0	1	100.0	--	--	2	2	100.0
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	3	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	1	--
SMALLMOUTH BUFFALO	--	--	--	--	1	3.6	--	--	1	33	3.0
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	1	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	1	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	5	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	2	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	8	--
CHANNEL CATFISH	--	--	2	5.7	--	--	1	8.3	3	150	2.0
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	2	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	5	50.0	1	25.0	2	11.8	--	--	8	36	22.2
PUMPKINSEED	2	100.0	--	--	--	--	--	--	2	3	66.7
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	1	100.0	1	1	100.0
BLUEGILL	1	33.3	1	14.3	--	--	2	11.1	4	46	8.7
NORTHERN SUNFISH	--	--	--	--	--	--	1	100.0	1	1	100.0
Lepomis HYBRID	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	1	33.3	--	--	--	--	1	4	25.0
LARGEMOUTH BASS	--	--	--	--	--	--	2	6.9	2	100	2.0
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	1	12.5	1	2.9	--	--	2	46	4.3
ROUND GOBY	--	--	1	100.0	--	--	--	--	1	1	100.0
TOTAL FISH	9	20.5	16	16.0	7	2.3	8	9.6	40	538	7.4

NOTE: EXCLUDES SEINING DATA.

APPENDIX F (cont.)

TABLE F-2. COMPARISONS OF THE NUMBER AND PERCENTAGE OF FISH WITH LESIONS AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY AND THE PERCENTAGE THAT LESIONS CONTRIBUTED TO ALL DELT ANOMALIES COMBINED, 2013.

SPECIES	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		TOTAL WITH LESIONS	TOTAL WITH DELT ANOMALIES	PERCENT WITH LESIONS
	#	%	#	%	#	%	#	%			
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	1	--
GIZZARD SHAD	--	--	--	--	--	--	--	--	--	1	--
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	--	--	--	--	--	--	--	--	--	2	--
COMMON CARP	--	--	2	7.1	1	2.4	1	11.1	4	88	4.5
CARP X GOLDFISH HYBRID	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	--
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	2	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	--	--	--	--	--	3	--
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	1	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	33	--
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	1	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	1	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	5	--
ORIENTAL WEATHERFISH	1	50.0	--	--	--	--	--	--	1	2	50.0
YELLOW BULLHEAD	--	--	1	14.3	--	--	--	--	1	8	12.5
CHANNEL CATFISH	--	--	4	11.4	11	11.8	1	8.3	16	150	10.7
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	2	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	1	25.0	3	17.6	--	--	4	36	11.1
PUMPKINSEED	--	--	--	--	1	100.0	--	--	1	3	33.3
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	1	--
BLUEGILL	--	--	1	14.3	1	5.6	4	22.2	6	46	13.0
NORTHERN SUNFISH	--	--	--	--	--	--	--	--	--	1	--
Lepomis HYBRID	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	--	4	--
LARGEMOUTH BASS	1	25.0	--	--	2	3.2	1	3.4	4	100	4.0
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	46	--
ROUND GOBY	--	--	--	--	--	--	--	--	--	1	--
TOTAL FISH	2	4.5	9	9.0	19	6.1	7	8.4	37	538	6.9

NOTE: EXCLUDES SEINING DATA.

APPENDIX F (cont.)

TABLE F-3. COMPARISONS OF THE NUMBER AND PERCENTAGE OF FISH WITH TUMORS AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY AND THE PERCENTAGE THAT TUMORS CONTRIBUTED TO ALL DELT ANOMALIES COMBINED, 2013.

SPECIES	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		TOTAL WITH TUMORS	TOTAL WITH DELT ANOMALIES	PERCENT WITH TUMORS
	#	%	#	%	#	%	#	%			
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	1	--
GIZZARD SHAD	--	--	--	--	--	--	--	--	--	1	--
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--
GOLDFISH	--	--	--	--	--	--	--	--	--	2	--
COMMON CARP	--	--	--	--	1	2.4	--	--	1	88	1.1
CARP X GOLDFISH HYBRID	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	--	--	--	--	--	--	--	--	--	--	--
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--
EMERALD SHINER	--	--	--	--	--	--	--	--	--	--	--
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	--	--	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	2	--
MIMIC SHINER	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	--	--	--	--	--	--	--	--	--	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--
RIVER CARPSUCKER	--	--	--	--	1	50.0	--	--	1	3	33.3
QUILLBACK	--	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	--	--	1	--
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	33	--
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	1	--
GOLDEN REDHORSE	--	--	--	--	--	--	--	--	--	1	--
SHORTHEAD REDHORSE	--	--	--	--	--	--	--	--	--	5	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	2	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	8	--
CHANNEL CATFISH	--	--	--	--	--	--	--	--	--	150	--
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	2	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	--	--	--	--	--	--	--	--	--	36	--
PUMPKINSEED	--	--	--	--	--	--	--	--	--	3	--
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	1	--
BLUEGILL	--	--	--	--	--	--	--	--	--	46	--
NORTHERN SUNFISH	--	--	--	--	--	--	--	--	--	1	--
Lepomis HYBRID	--	--	--	--	--	--	--	--	--	--	--
Lepomis sp.	--	--	--	--	--	--	--	--	--	--	--
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	--	4	--
LARGEMOUTH BASS	--	--	--	--	--	--	--	--	--	100	--
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	--	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--
YELLOW PERCH	--	--	--	--	--	--	--	--	--	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	46	--
ROUND GOBY	--	--	--	--	--	--	--	--	--	1	--
TOTAL FISH	--	--	--	--	2	0.6	--	--	2	538	0.4

NOTE: EXCLUDES SEINING DATA.

APPENDIX F (cont.)

TABLE F-4. COMPARISONS OF THE NUMBER AND PERCENT OF FISH WITH ALL ANOMALIES AMONG FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 2013.

SPECIES	LOWER LOCKPORT POOL		BRANDON POOL		UPSTREAM I-55		DOWNSTREAM I-55		TOTAL NUMBER AFFECTED	TOTAL NUMBER EXAMINED	TOTAL PERCENT AFFECTED
	#	%	#	%	#	%	#	%			
SPOTTED GAR	--	--	--	--	--	--	--	--	--	1	--
LONGNOSE GAR	--	--	--	--	4	16.0	--	--	4	28	14.3
GIZZARD SHAD	--	--	4	0.7	17	2.3	14	4.7	35	1847	1.9
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	135	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	1	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	1	--
GOLDFISH	--	--	1	9.1	1	14.3	--	--	2	18	11.1
COMMON CARP	10	58.8	32	76.2	47	57.3	13	56.5	102	164	62.2
CARP X GOLDFISH HYBRID	--	--	--	--	--	--	--	--	--	2	--
GOLDEN SHINER	--	--	1	33.3	--	--	--	--	1	12	8.3
PALLID SHINER	--	--	--	--	--	--	--	--	--	1	--
EMERALD SHINER	--	--	1	4.3	--	--	--	--	1	66	1.5
GHOST SHINER	--	--	--	--	--	--	--	--	--	1	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	1	--
SPOTTAIL SHINER	--	--	--	--	1	20.0	--	--	1	12	8.3
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	1	--
SPOTFIN SHINER	--	--	1	20.0	1	3.1	1	10.0	3	51	5.9
MIMIC SHINER	--	--	--	--	--	--	--	--	--	3	--
BLUNTNOST MINNOW	--	--	6	2.3	1	0.2	--	--	7	1144	0.6
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	13	--
RIVER CARPSUCKER	--	--	--	--	2	22.2	1	20.0	3	14	21.4
QUILLBACK	--	--	--	--	--	--	--	--	--	4	--
WHITE SUCKER	--	--	1	11.1	1	100.0	--	--	2	10	20.0
SMALLMOUTH BUFFALO	--	--	--	--	31	72.1	6	37.5	37	59	62.7
BLACK BUFFALO	--	--	--	--	--	--	--	--	--	2	--
SILVER REDHORSE	--	--	--	--	1	100.0	--	--	1	1	100.0
GOLDEN REDHORSE	--	--	--	--	1	100.0	--	--	1	6	16.7
SHORTHEAD REDHORSE	--	--	--	--	5	71.4	1	50.0	6	9	66.7
ORIENTAL WEATHERFISH	3	15.8	--	--	--	--	--	--	3	29	10.3
YELLOW BULLHEAD	--	--	8	17.8	1	5.3	--	--	9	78	11.5
CHANNEL CATFISH	11	84.6	35	92.1	100	87.7	12	70.6	158	182	86.8
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	4	--
FLATHEAD CATFISH	--	--	--	--	2	100.0	--	--	2	3	66.7
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	4	--
BLACKSTRIPED TOPMINNOW	--	--	--	--	--	--	--	--	--	14	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	2	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	6	--
WHITE BASS	--	--	--	--	--	--	--	--	--	6	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	5	--
ROCK BASS	--	--	--	--	1	11.1	--	--	1	20	5.0
GREEN SUNFISH	37	20.2	6	4.1	55	12.8	18	6.9	116	1018	11.4
PUMPKINSEED	4	1.9	--	--	2	2.4	--	--	6	417	1.4
WARMOUTH	--	--	--	--	--	--	--	--	--	1	--
ORANGESPOTTED SUNFISH	1	100.0	--	--	--	--	1	1.7	2	103	1.9
BLUEGILL	7	3.1	9	3.9	40	3.3	30	1.5	86	3643	2.4
NORTHERN SUNFISH	--	--	--	--	2	4.8	1	4.5	3	68	4.4
Lepomis HYBRID	--	--	--	--	1	0.5	--	--	1	233	0.4
Lepomis sp.	--	--	--	--	--	--	--	--	--	46	--
SMALLMOUTH BASS	--	--	3	6.3	4	23.5	--	--	7	70	10.0
LARGEMOUTH BASS	6	11.3	8	9.8	90	28.4	49	17.0	153	740	20.7
BLACK CRAPPIE	--	--	--	--	--	--	--	--	--	2	--
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	2	--
YELLOW PERCH	--	--	--	--	2	100.0	--	--	2	2	100.0
LOGPERCH	--	--	--	--	--	--	2	20.0	2	14	14.3
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	7	--
FRESHWATER DRUM	3	100.0	8	47.1	34	72.3	2	16.7	47	79	59.5
ROUND GOBY	--	--	1	0.5	--	--	--	--	1	238	0.4
TOTAL FISH	82	7.2	125	6.4	447	11.0	151	4.4	805	10643	7.6

NOTE: EXCLUDES SEINING DATA.

APPENDIX F (cont.)

TABLE F-5. COMPARISONS OF THE NUMBER AND PERCENT OF FISH WITH DELT ANOMALIES, PARASITES, AND "OTHER" ABNORMALITIES IN FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY, 2013.

SEGMENT: LOWER LOCKPORT POOL									
	DELT		PARST		OTHER		TOTAL	TOTAL	TOTAL
SPECIES	#	%	#	%	#	%	NUMBER AFFECTED	NUMBER EXAMINED	PERCENT AFFECTED
LONGNOSE GAR	--	--	--	--	--	--	--	2	--
GIZZARD SHAD	--	--	--	--	--	--	--	212	--
THREADFIN SHAD	--	--	--	--	--	--	--	26	--
COMMON CARP	10	58.8	--	--	6	35.3	10	17	58.8
GOLDEN SHINER	--	--	--	--	--	--	--	4	--
EMERALD SHINER	--	--	--	--	--	--	--	11	--
SPOTFIN SHINER	--	--	--	--	--	--	--	4	--
BLUNTNOSE MINNOW	--	--	--	--	--	--	--	141	--
ORIENTAL WEATHERFISH	2	10.5	1	5.3	--	--	3	19	15.8
YELLOW BULLHEAD	--	--	--	--	--	--	--	5	--
CHANNEL CATFISH	10	76.9	1	7.7	2	15.4	11	13	84.6
BANDED KILLIFISH	--	--	--	--	--	--	--	3	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	1	--
GREEN SUNFISH	10	5.5	29	15.8	3	1.6	37	183	20.2
PUMPKINSEED	2	1.0	2	1.0	1	0.5	4	210	1.9
WARMOUTH	--	--	--	--	--	--	--	1	--
ORANGESPOTTED SUNFISH	--	--	1	100.0	--	--	1	1	100.0
BLUEGILL	3	1.3	3	1.3	1	0.4	7	225	3.1
NORTHERN SUNFISH	--	--	--	--	--	--	--	2	--
Lepomis HYBRID	--	--	--	--	--	--	--	2	--
Lepomis sp.	--	--	--	--	--	--	--	1	--
LARGEMOUTH BASS	4	7.5	--	--	2	3.8	6	53	11.3
FRESHWATER DRUM	3	100.0	--	--	--	--	3	3	100.0
ROUND GOBY	--	--	--	--	--	--	--	6	--
TOTAL FISH	44	3.8	37	3.2	15	1.3	82	1145	7.2
SEGMENT: BRANDON POOL									
	DELT		PARST		OTHER		TOTAL	TOTAL	TOTAL
SPECIES	#	%	#	%	#	%	NUMBER AFFECTED	NUMBER EXAMINED	PERCENT AFFECTED
GIZZARD SHAD	1	0.2	--	--	3	0.5	4	603	0.7
THREADFIN SHAD	--	--	--	--	--	--	--	10	--
NORTHERN PIKE	--	--	--	--	--	--	--	1	--
GOLDFISH	1	9.1	--	--	--	--	1	11	9.1
COMMON CARP	28	66.7	--	--	29	69.0	32	42	76.2
CARP X GOLDFISH HYBRID	--	--	--	--	--	--	--	1	--
GOLDEN SHINER	--	--	1	33.3	--	--	1	3	33.3
EMERALD SHINER	--	--	1	4.3	--	--	1	23	4.3
SPOTFIN SHINER	1	20.0	--	--	--	--	1	5	20.0
BLUNTNOSE MINNOW	--	--	6	2.3	--	--	6	265	2.3
WHITE SUCKER	--	--	1	11.1	--	--	1	9	11.1
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	10	--
YELLOW BULLHEAD	7	15.6	1	2.2	--	--	8	45	17.8
CHANNEL CATFISH	35	92.1	6	15.8	12	31.6	35	38	92.1
TADPOLE MADTOM	--	--	--	--	--	--	--	4	--
BANDED KILLIFISH	--	--	--	--	--	--	--	1	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	3	--
WHITE BASS	--	--	--	--	--	--	--	1	--
YELLOW BASS	--	--	--	--	--	--	--	1	--
ROCK BASS	--	--	--	--	--	--	--	7	--
GREEN SUNFISH	4	2.7	2	1.4	1	0.7	6	146	4.1
PUMPKINSEED	--	--	--	--	--	--	--	96	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	35	--
BLUEGILL	7	3.1	1	0.4	4	1.7	9	229	3.9
NORTHERN SUNFISH	--	--	--	--	--	--	--	2	--
Lepomis HYBRID	--	--	--	--	--	--	--	10	--
Lepomis sp.	--	--	--	--	--	--	--	2	--
SMALLMOUTH BASS	3	6.3	--	--	1	2.1	3	48	6.3
LARGEMOUTH BASS	4	4.9	2	2.4	3	3.7	8	82	9.8
JOHNNY DARTER	--	--	--	--	--	--	--	1	--
LOGPERCH	--	--	--	--	--	--	--	3	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	3	--
FRESHWATER DRUM	8	47.1	--	--	--	--	8	17	47.1
ROUND GOBY	1	0.5	--	--	--	--	1	208	0.5
TOTAL FISH	100	5.1	21	1.1	53	2.7	125	1965	6.4

APPENDIX F (cont.)

TABLE F-5 (cont.)

SEGMENT: UPSTREAM I-55									
SPECIES	DELT		PARST		OTHER		TOTAL	TOTAL	TOTAL
	#	%	#	%	#	%	NUMBER AFFECTED	NUMBER EXAMINED	PERCENT AFFECTED
LONGNOSE GAR	1	4.0	--	--	3	12.0	4	25	16.0
GIZZARD SHAD	--	--	--	--	17	2.3	17	732	2.3
THREADFIN SHAD	--	--	--	--	--	--	--	8	--
GRASS PICKEREL	--	--	--	--	--	--	--	1	--
GOLDFISH	1	14.3	--	--	1	14.3	1	7	14.3
COMMON CARP	41	50.0	--	--	40	48.8	47	82	57.3
CARP X GOLDFISH HYBRID	--	--	--	--	--	--	--	1	--
GOLDEN SHINER	--	--	--	--	--	--	--	2	--
EMERALD SHINER	--	--	--	--	--	--	--	30	--
GHOST SHINER	--	--	--	--	--	--	--	1	--
STRIPED SHINER	--	--	--	--	--	--	--	1	--
SPOTTAIL SHINER	--	--	1	20.0	--	--	1	5	20.0
ROSYFACE SHINER	--	--	--	--	--	--	--	1	--
SPOTFIN SHINER	1	3.1	--	--	--	--	1	32	3.1
MIMIC SHINER	--	--	--	--	--	--	--	3	--
BLUNTNOSE MINNOW	--	--	1	0.2	--	--	1	543	0.2
BULLHEAD MINNOW	--	--	--	--	--	--	--	1	--
RIVER CARPSUCKER	2	22.2	--	--	--	--	2	9	22.2
QUILLBACK	--	--	--	--	--	--	--	3	--
WHITE SUCKER	1	100.0	--	--	--	--	1	1	100.0
SMALLMOUTH BUFFALO	28	65.1	--	--	18	41.9	31	43	72.1
BLACK BUFFALO	--	--	--	--	--	--	--	2	--
SILVER REDHORSE	1	100.0	--	--	--	--	1	1	100.0
GOLDEN REDHORSE	1	100.0	--	--	--	--	1	1	100.0
SHORTHEAD REDHORSE	4	57.1	--	--	1	14.3	5	7	71.4
YELLOW BULLHEAD	1	5.3	--	--	--	--	1	19	5.3
CHANNEL CATFISH	93	81.6	33	28.9	22	19.3	100	114	87.7
FLATHEAD CATFISH	2	100.0	--	--	1	50.0	2	2	100.0
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	8	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	1	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	4	--
WHITE BASS	--	--	--	--	--	--	--	5	--
ROCK BASS	--	--	1	11.1	--	--	1	9	11.1
GREEN SUNFISH	17	4.0	33	7.7	6	1.4	55	430	12.8
PUMPKINSEED	1	1.2	--	--	1	1.2	2	82	2.4
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	7	--
BLUEGILL	18	1.5	5	0.4	18	1.5	40	1200	3.3
NORTHERN SUNFISH	--	--	--	--	2	4.8	2	42	4.8
Lepomis HYBRID	--	--	1	0.5	--	--	1	191	0.5
Lepomis sp.	--	--	--	--	--	--	--	6	--
SMALLMOUTH BASS	1	5.9	--	--	4	23.5	4	17	23.5
LARGEMOUTH BASS	63	19.9	13	4.1	37	11.7	90	317	28.4
BLACK CRAPPIE	--	--	--	--	--	--	--	2	--
JOHNNY DARTER	--	--	--	--	--	--	--	1	--
YELLOW PERCH	--	--	2	100.0	--	--	2	2	100.0
LOGPERCH	--	--	--	--	--	--	--	1	--
BLACKSIDE DARTER	--	--	--	--	--	--	--	4	--
FRESHWATER DRUM	34	72.3	--	--	3	6.4	34	47	72.3
ROUND GOBY	--	--	--	--	--	--	--	23	--
TOTAL FISH	311	7.6	90	2.2	174	4.3	447	4076	11.0

APPENDIX F (cont.)

TABLE F-5 (cont.)

SEGMENT: DOWNSTREAM I-55									
SPECIES	DELT		PARST		OTHER		TOTAL	TOTAL	TOTAL
	#	%	#	%	#	%	NUMBER AFFECTED	NUMBER EXAMINED	PERCENT AFFECTED
SPOTTED GAR	--	--	--	--	--	--	--	1	--
LONGNOSE GAR	--	--	--	--	--	--	--	1	--
GIZZARD SHAD	--	--	--	--	14	4.7	14	300	4.7
THREADFIN SHAD	--	--	--	--	--	--	--	91	--
COMMON CARP	9	39.1	--	--	11	47.8	13	23	56.5
GOLDEN SHINER	--	--	--	--	--	--	--	3	--
PALLID SHINER	--	--	--	--	--	--	--	1	--
EMERALD SHINER	--	--	--	--	--	--	--	2	--
SPOTTAIL SHINER	--	--	--	--	--	--	--	7	--
SPOTFIN SHINER	--	--	1	10.0	--	--	1	10	10.0
BLUNTNOSE MINNOW	--	--	--	--	--	--	--	195	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	12	--
RIVER CARPSUCKER	1	20.0	--	--	1	20.0	1	5	20.0
QUILLBACK	--	--	--	--	--	--	--	1	--
SMALLMOUTH BUFFALO	5	31.3	--	--	4	25.0	6	16	37.5
GOLDEN REDHORSE	--	--	--	--	--	--	--	5	--
SHORHEAD REDHORSE	1	50.0	--	--	--	--	1	2	50.0
YELLOW BULLHEAD	--	--	--	--	--	--	--	9	--
CHANNEL CATFISH	12	70.6	2	11.8	4	23.5	12	17	70.6
FLATHEAD CATFISH	--	--	--	--	--	--	--	1	--
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	2	--
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	1	--
BROOK SILVERSIDE	--	--	--	--	--	--	--	2	--
YELLOW BASS	--	--	--	--	--	--	--	4	--
ROCK BASS	--	--	--	--	--	--	--	4	--
GREEN SUNFISH	5	1.9	11	4.2	4	1.5	18	259	6.9
PUMPKINSEED	--	--	--	--	--	--	--	29	--
ORANGESPOTTED SUNFISH	1	1.7	--	--	--	--	1	60	1.7
BLUEGILL	18	0.9	7	0.4	6	0.3	30	1989	1.5
NORTHERN SUNFISH	1	4.5	--	--	--	--	1	22	4.5
Lepomis HYBRID	--	--	--	--	--	--	--	30	--
Lepomis sp.	--	--	--	--	--	--	--	37	--
SMALLMOUTH BASS	--	--	--	--	--	--	--	5	--
LARGEMOUTH BASS	29	10.1	11	3.8	13	4.5	49	288	17.0
LOGPERCH	--	--	2	20.0	--	--	2	10	20.0
FRESHWATER DRUM	1	8.3	--	--	2	16.7	2	12	16.7
ROUND GOBY	--	--	--	--	--	--	--	1	--
TOTAL FISH	83	2.4	34	1.0	59	1.7	151	3457	4.4

NOTE: EXCLUDES SEINING DATA.

APPENDIX F (cont.)

TABLE F-6. COMPARISONS OF THE NUMBERS OF FISH EXHIBITING SLIGHT, MODERATE, AND SEVERE FIN EROSION IN FOUR SEGMENTS OF THE UPPER ILLINOIS WATERWAY AND THE PERCENTAGE THAT EACH CATEGORY OF FIN EROSION CONTRIBUTED TO ALL FIN EROSION COMBINED, 2013.

SEGMENT: LOWER LOCKPORT POOL

SPECIES	SLIGHT	MODERATE	SEVERE	TOTAL	SLIGHT	MODERATE	SEVERE
	#	#	#	EROSION #	%	%	%
COMMON CARP	10	0	0	10	100.0	0.0	0.0
ORIENTAL WEATHERFISH	1	0	0	1	100.0	0.0	0.0
CHANNEL CATFISH	5	0	0	5	100.0	0.0	0.0
GREEN SUNFISH	4	1	0	5	80.0	20.0	0.0
BLUEGILL	2	0	0	2	100.0	0.0	0.0
LARGEMOUTH BASS	3	0	1	4	75.0	0.0	25.0
FRESHWATER DRUM	3	0	0	3	100.0	0.0	0.0
TOTAL FISH	28	1	1	30	93.3	3.3	3.3

SEGMENT: BRANDON POOL

SPECIES	SLIGHT	MODERATE	SEVERE	TOTAL	SLIGHT	MODERATE	SEVERE
	#	#	#	EROSION #	%	%	%
GIZZARD SHAD	1	0	0	1	100.0	0.0	0.0
COMMON CARP	22	5	0	27	81.5	18.5	0.0
YELLOW BULLHEAD	4	1	0	5	80.0	20.0	0.0
CHANNEL CATFISH	18	2	0	20	90.0	10.0	0.0
GREEN SUNFISH	2	0	0	2	100.0	0.0	0.0
BLUEGILL	5	1	0	6	83.3	16.7	0.0
SMALLMOUTH BASS	2	0	0	2	100.0	0.0	0.0
LARGEMOUTH BASS	3	1	0	4	75.0	25.0	0.0
FRESHWATER DRUM	8	0	0	8	100.0	0.0	0.0
TOTAL FISH	65	10	0	75	86.7	13.3	0.0

SEGMENT: UPSTREAM I-55

SPECIES	SLIGHT	MODERATE	SEVERE	TOTAL	SLIGHT	MODERATE	SEVERE
	#	#	#	EROSION #	%	%	%
LONGNOSE GAR	1	0	0	1	100.0	0.0	0.0
GOLDFISH	1	0	0	1	100.0	0.0	0.0
COMMON CARP	37	1	1	39	94.9	2.6	2.6
RIVER CARPSUCKER	1	0	0	1	100.0	0.0	0.0
WHITE SUCKER	1	0	0	1	100.0	0.0	0.0
SMALLMOUTH BUFFALO	14	12	1	27	51.9	44.4	3.7
SILVER REDHORSE	1	0	0	1	100.0	0.0	0.0
GOLDEN REDHORSE	0	1	0	1	0.0	100.0	0.0
SHORTHEAD REDHORSE	3	1	0	4	75.0	25.0	0.0
YELLOW BULLHEAD	1	0	0	1	100.0	0.0	0.0
CHANNEL CATFISH	40	4	0	44	90.9	9.1	0.0
FLATHEAD CATFISH	1	0	0	1	100.0	0.0	0.0
GREEN SUNFISH	11	1	0	12	91.7	8.3	0.0
BLUEGILL	14	3	0	17	82.4	17.6	0.0
SMALLMOUTH BASS	1	0	0	1	100.0	0.0	0.0
LARGEMOUTH BASS	59	2	0	61	96.7	3.3	0.0
FRESHWATER DRUM	28	6	0	34	82.4	17.6	0.0
TOTAL FISH	214	31	2	247	86.6	12.6	0.8

SEGMENT: DOWNSTREAM I-55

SPECIES	SLIGHT	MODERATE	SEVERE	TOTAL	SLIGHT	MODERATE	SEVERE
	#	#	#	EROSION #	%	%	%
COMMON CARP	9	0	0	9	100.0	0.0	0.0
RIVER CARPSUCKER	1	0	0	1	100.0	0.0	0.0
SMALLMOUTH BUFFALO	4	1	0	5	80.0	20.0	0.0
SHORTHEAD REDHORSE	0	1	0	1	0.0	100.0	0.0
CHANNEL CATFISH	6	0	0	6	100.0	0.0	0.0
GREEN SUNFISH	4	1	0	5	80.0	20.0	0.0
BLUEGILL	12	0	0	12	100.0	0.0	0.0
LARGEMOUTH BASS	27	0	0	27	100.0	0.0	0.0
FRESHWATER DRUM	1	0	0	1	100.0	0.0	0.0
TOTAL FISH	64	3	0	67	95.5	4.5	0.0

NOTE: EXCLUDES SEINING DATA.

APPENDIX F (cont.)

RAW DATA LISTING OF FISH WITH ANOMALIES, 2013.

TRIP: 20-21 MAY

LOCATION

SPECIES	ANOMALY	301 #	302A #	302B #	304 #	305 #	306 #	307 #	309 #	402 #	402A #	403 #	403A #	404A #	405 #	408 #	412A #	414 #	418 #	419A #	TOTAL #
LONGNOSE GAR	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
	Deformed body	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
GIZZARD SHAD	Eroded fin-slight	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Emaciated	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	2
COMMON CARP	Eroded fin-slight	--	1	1	2	--	--	--	--	--	--	--	--	1	2	2	--	2	--	1	12
	Eroded fin-moderate	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	--	--	2	1	--	--	1	--	--	--	--	1	2	2	--	1	--	2	12
	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
	Scoliosis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
EMERALD SHINER	Blackspot	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
RIVER CARPSUCKER	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
	Tumors	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
SMALLMOUTH BUFFALO	Eroded fin-slight	--	--	--	--	--	--	--	--	1	1	1	2	--	--	--	--	--	2	--	7
	Eroded fin-moderate	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	2
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	3	--	--	--	--	--	--	--	--	3
	Regenerated scales	--	--	--	--	--	--	--	--	--	1	--	2	--	--	--	--	--	1	--	4
SHORHEAD REDHORSE	Eroded fin-moderate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
CHANNEL CATFISH	Eroded fin-slight	--	2	2	4	--	1	--	--	1	--	8	--	--	1	--	--	2	--	--	21
	Eroded fin-moderate	--	--	--	--	--	--	--	--	1	--	1	--	--	1	--	--	--	--	--	3
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	2
	Parasite	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	2
	Eroded barbels	--	3	4	5	--	1	--	--	2	1	10	--	--	2	--	--	2	--	1	31
	Other	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	2
	Emaciated	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
FLATHEAD CATFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Eroded barbels	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	2
	Emaciated	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
GREEN SUNFISH	Eroded fin-slight	--	--	2	--	--	--	--	--	1	--	--	--	--	1	1	--	1	--	--	6
	Fungus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
	Blackspot	1	--	5	--	--	--	--	--	--	1	--	--	1	5	--	--	2	3	--	18
BLUEGILL	Eroded fin-slight	--	--	--	1	1	--	--	--	2	--	1	--	--	1	1	1	1	--	--	9
	Deformed body	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
	Parasite	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
	Fungus	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	2
	Blackspot	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1
SMALLMOUTH BASS	Eroded fin-slight	--	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	2
	Deformed body	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Emaciated	--	--	--	--	1	--	--	--	2	--	--	--	--	1	--	--	--	--	--	4
LARGEMOUTH BASS	Eroded fin-slight	--	2	--	--	--	--	--	--	1	--	--	--	--	2	2	3	2	6	2	20
	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	2	--	4
	Abrasion	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	2
	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	2
	Fungus	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	2
	Emaciated	--	--	--	--	--	--	--	--	--	3	--	--	--	--	1	--	--	--	--	4
FRESHWATER DRUM	Eroded fin-slight	--	--	2	--	--	1	1	--	1	1	--	--	2	--	--	--	--	--	--	8
	Eroded fin-moderate	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1

APPENDIX F (cont.)

TRIP: 4-6 JUN

SPECIES	ANOMALY	LOCATION																TOTAL
		302A	302B	303	304	305	306	402	402A	403	403A	404A	405	408	412A	414	418	
		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
GIZZARD SHAD	Emaciated	--	--	--	--	--	--	--	1	--	--	--	--	3	--	--	--	4
COMMON CARP	Eroded fin-slight	--	2	1	--	--	--	--	2	--	--	1	--	2	--	--	--	8
	Eroded fin-moderate	--	--	--	2	1	1	--	--	--	--	--	--	1	--	--	--	5
	Eroded fin-severe	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	1	1	3	--	1	1	2	--	--	1	--	3	--	--	--	13
	Lesion	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	2
	Fungus	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	2
	Regenerated scales	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
	Missing body part	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Scoliosis	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
	Other	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	2
SPOTFIN SHINER	Blackspot	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Missing body part	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
BLUNTNOSE MINNOW	Blackspot	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
SMALLMOUTH BUFFALO	Eroded fin-moderate	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	2
	Eroded fin-severe	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Regenerated scales	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
SILVER REDHORSE	Eroded fin-slight	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
SHORthead REDHORSE	Eroded fin-moderate	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
	Regenerated scales	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
CHANNEL CATFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
	Parasite	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Abrasion	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	2
	Fungus	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Eroded barbels	--	--	--	2	--	--	--	2	4	--	--	1	--	--	--	1	10
	Emaciated	--	--	--	1	--	--	--	1	--	--	--	--	--	--	--	--	2
GREEN SUNFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
	Fungus	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	2
	Blackspot	--	--	--	--	--	--	--	--	--	--	--	3	--	--	1	--	4
PUMPKINSEED	Deformed body	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Fungus	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1
BLUEGILL	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	--	2	--	1	--	1
	Fungus	--	--	--	--	--	--	--	--	--	--	--	2	--	1	1	--	4
	Popeye	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
	Other	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Emaciated	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
NORTHERN SUNFISH	Fungus	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	2
LARGemouth BASS	Eroded fin-slight	--	--	--	--	--	--	--	2	--	--	--	2	1	--	1	3	9
	Lesion	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Fungus	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
FRESHWATER DRUM	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1

APPENDIX F (cont.)

TRIP: 1-3 JUL

SPECIES	ANOMALY	LOCATION																			TOTAL
		302A	302B	303	304	305	306	307	309	402	402A	403	403A	404A	405	408	412A	414	418	419A	
		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
LONGNOSE GAR	Emaciated	--	--	--	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	2
GIZZARD SHAD	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
	Missing scales	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Emaciated	--	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	2
COMMON CARP	Eroded fin-slight	3	--	--	4	1	3	--	2	1	2	--	--	--	--	2	--	--	--	1	19
	Deformed fin rays	1	--	--	4	1	3	1	2	1	2	--	--	--	--	2	--	--	--	1	18
	Deformed body	--	--	--	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	2
	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
	Regenerated scales	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1
	Missing scales	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Scoliosis	--	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	2
SMALLMOUTH BUFFALO	Eroded fin-slight	--	--	--	--	--	--	--	--	--	1	--	--	2	--	--	--	--	--	--	3
	Eroded fin-moderate	--	--	--	--	--	--	--	--	3	2	--	--	--	--	--	--	--	--	1	6
	Deformed fin rays	--	--	--	--	--	--	--	--	2	--	--	--	1	--	--	--	--	--	1	4
	Regenerated scales	--	--	--	--	--	--	--	--	1	1	--	--	1	--	--	--	--	--	1	4
	Scoliosis	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
SHORTHEAD REDHORSE	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
ORIENTAL	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
WEATHERFISH		--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
CHANNEL CATFISH	Eroded fin-slight	--	--	--	2	--	1	--	--	2	1	7	2	--	--	--	--	1	1	--	17
	Deformed fin rays	--	--	--	--	--	--	--	--	--	1	1	--	--	--	--	--	1	1	--	4
	Deformed body	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1
	Parasite	--	--	--	1	--	1	--	--	2	--	12	2	1	--	--	--	--	--	--	19
	Lesion	--	--	--	--	--	--	--	--	--	1	2	--	--	--	--	--	--	--	--	3
	Eroded barbels	--	--	--	2	--	2	--	--	3	1	15	4	2	--	--	--	1	1	--	31
	Emaciated	--	--	--	2	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	3
GREEN SUNFISH	Eroded fin-slight	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	--	3
	Eroded fin-moderate	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Deformed body	--	3	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	4
	Parasite	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	--	--	--	--	2
	Fungus	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
	Blackspot	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	3	--	5
	Popeye	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1
PUMPKINSEED	Emaciated	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
BLUEGILL	Eroded fin-slight	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1	1	--	3
	Eroded fin-moderate	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
	Deformed body	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Parasite	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	2
	Fungus	--	--	--	--	--	--	--	--	--	--	1	--	2	1	1	--	1	--	--	6
	Other	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
LARGEMOUTH BASS	Eroded fin-slight	1	--	--	--	--	--	--	--	2	3	1	3	1	--	2	--	3	--	--	16
	Eroded fin-severe	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Deformed body	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Lesion	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Fungus	--	--	--	--	--	--	--	--	2	1	--	--	--	--	--	--	--	--	1	4
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
FRESHWATER DRUM	Eroded fin-slight	--	--	--	1	--	2	--	1	7	6	1	--	1	--	--	--	--	--	--	19
	Deformed body	--	--	--	--	--	1	--	--	1	--	--	--	--	--	--	--	--	--	--	2
	Emaciated	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1

APPENDIX F (cont.)

TRIP: 15-17 JUL

SPECIES	ANOMALY	LOCATION																		TOTAL
		302A	302B	304	305	306	307	309	402	402A	403	403A	404A	405	408	412A	414	418	419A	
		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
GIZZARD SHAD	Emaciated	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
CENTRAL	Tumors	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
STONEROLLER	Eroded fin-slight	3	--	--	--	1	1	1	4	--	--	1	--	1	2	--	--	--	--	14
COMMON CARP	Deformed fin rays	3	--	--	--	1	1	1	5	1	--	1	--	1	2	--	--	--	--	16
	Missing body part	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
	Scoliosis	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
WHITE SUCKER	Eroded fin-slight	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
SMALLMOUTH BUFFALO	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--	2
	Eroded fin-moderate	--	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	2
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
YELLOW BULLHEAD	Eroded fin-slight	--	--	1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	2
	Parasite	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Eroded barbels	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
CHANNEL CATFISH	Eroded fin-slight	--	--	2	--	--	1	--	2	1	1	--	1	--	4	--	--	--	--	12
	Eroded fin-moderate	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	--	1	--	--	--	--	2	--	1	--	--	--	2	--	--	--	--	6
	Parasite	--	--	2	--	--	--	--	2	--	--	--	1	--	1	--	--	--	--	6
	Abrasion	--	--	--	--	--	--	--	1	1	--	--	--	--	1	--	--	--	--	3
	Lesion	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	2
	Eroded barbels	--	1	2	--	--	1	--	3	1	1	--	3	--	5	--	--	1	--	18
	Emaciated	--	--	--	--	--	--	--	1	--	1	--	--	--	--	--	--	--	--	2
GREEN SUNFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Fungus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Blackspot	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
PUMPKINSEED	Blackspot	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
BLUEGILL	Eroded fin-slight	--	--	--	--	1	--	--	--	--	--	--	--	--	1	2	2	1	--	7
	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	1	1	4
	Abrasion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Fungus	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	2	--	--	4
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
NORTHERN SUNFISH	Scoliosis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
LARGEMOUTH BASS	Eroded fin-slight	--	--	--	--	1	--	1	2	1	--	--	1	1	6	1	1	1	--	16
	Eroded fin-moderate	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	1	--	--	--	--	--	6	--	1	1	--	9
	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	1	--	1	4
	Abrasion	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
	Fungus	--	--	--	--	--	--	--	1	--	--	--	--	2	--	--	--	--	--	3
	Other	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
	Emaciated	--	--	--	--	--	--	1	1	--	--	--	--	--	4	--	--	--	--	6
ROUND GOBY	Missing body part	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1

APPENDIX F (cont.)

TRIP: 14-16 AUG

SPECIES	ANOMALY	LOCATION																TOTAL
		302A	302B	303	304	306	307	309	402	402A	403	403A	404A	405	408	418	419A	
		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
LONGNOSE GAR	Emaciated	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
GIZZARD SHAD	Abrasion	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
	Emaciated	--	--	--	--	--	--	--	--	--	--	1	--	2	--	--	1	4
COMMON CARP	Eroded fin-slight	--	--	1	1	--	--	--	--	--	--	1	--	--	2	--	--	5
	Deformed fin rays	--	--	--	1	--	--	--	--	--	--	1	--	--	2	--	--	4
	Tumors	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1
GOLDEN SHINER	Blackspot	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
BLUNTNOSE MINNOW	Tumors	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
WHITE SUCKER	Parasite	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
SMALLMOUTH BUFFALO	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1
GOLDEN REDHORSE	Eroded fin-moderate	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1
SHORthead REDHORSE	Eroded fin-slight	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
ORIENTAL	Eroded fin-slight																	
WEATHERFISH		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
YELLOW BULLHEAD	Eroded fin-slight	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Eroded fin-moderate	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
CHANNEL CATFISH	Eroded fin-slight	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Eroded fin-moderate	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Parasite	--	--	--	--	--	--	--	--	--	1	--	2	--	--	--	--	3
	Lesion	--	--	--	--	--	1	--	--	--	1	--	1	--	--	--	--	3
	Eroded barbels	--	1	--	--	--	2	--	1	--	4	--	3	--	--	--	--	11
	Missing body part	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
	Emaciated	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--	--	2
GREEN SUNFISH	Eroded fin-slight	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
	Eroded fin-moderate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1
	Blackspot	1	2	--	--	--	--	--	--	--	1	--	--	--	--	--	--	4
PUMPKINSEED	Parasite	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
BLUEGILL	Eroded fin-slight	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	2
	Deformed body	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1
	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Fungus	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
	Blackspot	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
LARGemouth BASS	Eroded fin-slight	--	--	--	--	--	--	--	1	--	2	1	2	--	4	--	--	10
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	1	--	3	--	--	4
	Fungus	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Emaciated	1	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	3
FRESHWATER DRUM	Eroded fin-slight	1	--	--	--	--	--	--	2	--	1	1	--	--	--	--	--	5

APPENDIX F (cont.)

TRIP: 26-28 AUG

SPECIES	ANOMALY	LOCATION																		TOTAL
		302A	302B	303	304	305	307	309	402	402A	403	403A	404A	405	408	412A	414	418	419A	
		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
GIZZARD SHAD	Regenerated scales	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
	Emaciated	--	--	--	--	--	--	--	--	1	--	--	--	1	1	--	1	2	--	6
COMMON CARP	Eroded fin-slight	--	--	--	--	--	1	--	3	--	--	--	--	2	--	--	--	--	1	7
	Deformed fin rays	--	--	--	--	--	1	--	3	--	--	--	--	2	--	--	1	1	--	8
	Deformed body	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
	Regenerated scales	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Other	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Emaciated	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
SMALLMOUTH BUFFALO	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
CHANNEL CATFISH	Eroded fin-slight	--	1	--	1	--	--	--	--	--	--	1	--	--	--	--	1	--	--	4
	Deformed body	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Lesion	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Eroded barbels	--	1	--	4	1	--	--	1	1	--	2	--	--	1	--	1	--	2	14
	Other	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1	2
GREEN SUNFISH	Eroded fin-slight	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2
	Deformed fin rays	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
	Deformed body	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Parasite	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	1
	Lesion	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--	--	--	--	2
	Fungus	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	2
	Blackspot	6	1	--	--	1	1	--	--	--	--	--	--	3	--	--	--	1	--	13
BLUEGILL	Eroded fin-slight	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	2
	Abrasion	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	2	--	3
	Fungus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1
Lepomis HYBRID	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
SMALLMOUTH BASS	Emaciated	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
LARGEMOUTH BASS	Eroded fin-slight	--	--	--	--	--	--	--	1	3	--	--	1	1	4	--	1	1	1	13
	Eroded fin-moderate	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
	Deformed body	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	--	--	2
	Abrasion	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Fungus	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	--	2
	Blackspot	--	--	--	--	--	--	1	--	2	--	--	--	--	--	--	--	--	--	3
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	--	2
YELLOW PERCH	Blackspot	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1
LOGPERCH	Blackspot	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	2
FRESHWATER DRUM	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1
	Eroded fin-moderate	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1

APPENDIX F (cont.)

TRIP: 9-11 SEP

SPECIES	ANOMALY	LOCATION																		TOTAL
		302A	302B	303	304	305	306	307	309	402	402A	403	403A	404A	405	408	414	418	419A	
		#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#	#
GIZZARD SHAD	Emaciated	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	5	1	--	7
GOLDFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
	Deformed body	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1
COMMON CARP	Eroded fin-slight	--	--	--	--	--	1	--	1	2	1	--	--	--	--	1	2	--	--	8
	Deformed fin rays	--	--	--	--	--	1	--	--	1	1	--	--	--	--	--	2	--	--	5
SPOTTAIL SHINER	Blackspot	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
SPOTFIN SHINER	Missing body part	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1
BLUNTNOSE MINNOW	Blackspot	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
SMALLMOUTH BUFFALO	Eroded fin-slight	--	--	--	--	--	--	--	--	--	1	--	1	--	--	--	1	--	1	4
	Deformed fin rays	--	--	--	--	--	--	--	--	--	1	--	1	--	--	--	1	--	--	3
SHORTHEAD REDHORSE	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
ORIENTAL	Parasite	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
WEATHERFISH	Eroded fin-slight	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
YELLOW BULLHEAD	Lesion	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	1
CHANNEL CATFISH	Eroded fin-slight	--	--	--	1	--	--	--	--	1	--	2	1	1	--	--	--	--	--	6
	Eroded fin-moderate	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1
	Parasite	--	--	--	1	--	--	--	--	1	--	1	--	2	--	--	--	--	--	5
	Lesion	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	2
	Eroded barbels	--	--	1	2	--	--	--	--	2	--	2	1	2	--	--	--	--	1	11
ROCK BASS	Parasite	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
GREEN SUNFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
	Eroded fin-moderate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
	Deformed body	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	2
	Blackspot	--	8	--	--	--	--	--	--	--	--	--	--	1	--	1	--	--	--	10
	Regenerated scales	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
PUMPKINSEED	Parasite	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
ORANGESPOTTED	Deformed body	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1
SUNFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	1	1	--	--	1	--	--	4
BLUEGILL	Eroded fin-moderate	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	--	1
	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	--	2	--	1	--	--	3
	Lesion	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1
	Missing scales	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	1
LARGEMOUTH BASS	Eroded fin-slight	--	--	--	--	--	--	1	--	--	--	--	2	1	--	1	2	--	--	7
	Eroded fin-moderate	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
	Fungus	--	--	--	--	--	--	--	--	1	2	--	--	--	--	--	1	--	--	4
	Blackspot	--	--	--	1	--	--	--	--	--	1	--	--	--	1	1	--	--	3	7
	Emaciated	--	--	--	--	--	--	--	--	1	--	--	1	1	1	--	1	--	--	5
YELLOW PERCH	Blackspot	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1
FRESHWATER DRUM	Eroded fin-slight	--	--	--	--	--	--	--	--	1	--	--	--	1	1	--	--	--	--	3
	Eroded fin-moderate	--	--	--	--	--	--	--	--	1	1	--	--	--	--	--	--	--	--	2
	Emaciated	--	--	--	--	--	--	--	--	1	--	--	--	1	--	--	--	--	--	2

APPENDIX F (cont.)

TRIP: 23-25 SEP

TRIP: 23-25 SEP		LOCATION																		
SPECIES	ANOMALY	302A #	302B #	304 #	305 #	306 #	307 #	309 #	402 #	402A #	403 #	403A #	404A #	405 #	408 #	414 #	418 #	419A #	TOTAL #	
GIZZARD SHAD	Emaciated	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	3	--	4	
COMMON CARP	Eroded fin-slight	--	--	--	1	--	--	--	1	--	1	--	--	--	--	2	--	--	5	
	Deformed fin rays	--	--	--	1	--	--	--	1	--	1	--	--	--	--	2	--	--	5	
BLUNTNOSE MINNOW	Parasite	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	1	
	Blackspot	--	--	--	--	--	4	1	--	--	--	--	--	--	--	--	--	--	5	
RIVER CARPSUCKER	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	
SMALLMOUTH BUFFALO	Regenerated scales	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	
	Eroded fin-moderate	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	
YELLOW BULLHEAD	Deformed fin rays	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	
	Eroded fin-slight	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	
CHANNEL CATFISH	Eroded fin-slight	--	--	5	--	--	--	--	--	--	1	--	--	--	--	1	--	--	7	
	Deformed fin rays	--	--	4	--	--	--	--	--	--	1	--	--	--	--	--	--	--	5	
	Parasite	--	--	1	--	--	--	--	2	--	1	--	1	--	--	--	--	--	5	
	Lesion	--	--	--	--	--	--	--	--	--	4	1	--	--	--	--	--	--	5	
	Eroded barbels	--	--	10	--	--	--	--	3	--	8	1	--	--	--	--	--	--	22	
	Emaciated	--	--	1	--	--	--	--	1	--	1	--	--	--	--	--	--	--	3	
BANDED KILLIFISH	Blackspot	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	
GREEN SUNFISH	Eroded fin-slight	--	--	--	--	--	--	--	--	--	2	1	2	--	--	1	--	--	6	
	Deformed fin rays	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--	--	2	
	Parasite	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	1	
	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	
	Fungus	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1	
	Blackspot	--	3	--	--	--	--	--	--	--	--	1	--	13	--	--	--	--	17	
	Scoliosis	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	
	Deformed fin rays	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	
PUMPKINSEED	Lesion	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	1	
	Scoliosis	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	
ORANGESPOTTED SUNFISH	Blackspot	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	
BLUEGILL	Eroded fin-slight	--	1	--	--	--	--	--	--	1	--	1	--	--	--	2	--	--	5	
	Eroded fin-moderate	--	--	--	--	--	--	1	--	1	--	--	--	--	--	--	--	--	2	
	Deformed body	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	1	
	Lesion	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	1	
	Fungus	--	--	--	--	--	--	1	--	1	2	--	--	--	--	--	--	--	4	
	Blackspot	--	3	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	4	
SMALLMOUTH BASS	Eroded fin-slight	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	
	Fungus	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	
LARGEMOUTH BASS	Eroded fin-slight	--	--	--	--	--	--	--	--	--	--	1	--	1	--	--	--	--	2	
	Fungus	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	2	
	Blackspot	--	--	1	--	--	--	--	--	1	--	1	--	4	--	--	--	--	7	
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	
FRESHWATER DRUM	Eroded fin-slight	--	--	--	1	1	--	--	1	--	--	--	--	--	--	--	--	--	3	
	Eroded fin-moderate	--	--	--	--	--	--	--	2	--	--	--	--	--	--	--	--	--	2	
	Emaciated	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	--	1	

APPENDIX G

HISTORICAL FISH SPECIES LISTS FOR EACH SEGMENT, 1977-2013

UPPER ILLINOIS WATERWAY – 2013

List of Fish Species Collected from Lower Lockport Pool for all Sampling Gears, Locations, and Dates 1984-2013.

SPECIES	84	85	86	87	88	89	90	91	92	93	94	95	00	01	02	05	06	07	08	09	10	11	12	13
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X
SKIPJACK HERRING	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	--	X	--	X	--	--	--
ALEWIFE	--	--	X	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--
GIZZARD SHAD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	X	X	X	--	X	X
COHO SALMON	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RAINBOW TROUT	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--
RAINBOW SMELT	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	X	--	X	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	--
GRASS PICKEREL	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	X	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--
GOLDFISH	X	X	X	X	X	X	X	--	X	X	X	X	--	--	X	--	--	X	X	X	X	--	X	--
COMMON CARP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CARP X GOLDFISH HYBRID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X	--	--	--	--	X	--
SILVER CHUB	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GOLDEN SHINER	X	--	--	--	X	X	X	X	X	--	X	--	--	--	X	--	--	X	--	X	X	--	X	X
EMERALD SHINER	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SPOTTAIL SHINER	X	--	--	--	X	X	--	--	--	--	--	--	--	X	X	--	X	--	--	--	X	--	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X
SAND SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
<i>Notropis</i> sp.	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOSE MINNOW	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FATHEAD MINNOW	--	--	--	--	X	--	--	X	--	X	X	X	--	X	X	--	X	--	--	--	X	X	X	--
BULLHEAD MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	X	--	--	X
CREEK CHUB	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--
WHITE SUCKER	--	--	--	--	--	--	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
SPOTTED SUCKER	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	X	X	X	X	X	X	X	X
BLACK BULLHEAD	X	--	--	--	X	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
YELLOW BULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X
CHANNEL CATFISH	--	--	--	--	--	--	--	--	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X
TADPOLE MADTOM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	X	X	--	X	--	X	--	--	X

List of Fish Species Collected from Lower Lockport Pool for all Sampling Gears, Locations, and Dates 1984-2013.

SPECIES	84	85	86	87	88	89	90	91	92	93	94	95	00	01	02	05	06	07	08	09	10	11	12	13
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	X	X	X	X	--	--	X	X	--
BROOK SILVERSIDE	--	X	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	X	--	--
THREESPIN STICKLEBACK	--	--	--	--	--	--	--	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE PERCH	--	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	--	--	--	X	--	--	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--	--
YELLOW BASS	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	X	--	--	--
HYBRID STRIPER	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GREEN SUNFISH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PUMPKINSEED	--	--	--	--	--	--	X	X	--	--	--	--	X	X	X	--	X	X	X	X	X	X	X	X
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	X	X	X
ORANGESPOTTED SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	X	--	X	--	X	X	X
BLUEGILL	X	--	X	--	X	X	X	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X
NORTHERN SUNFISH	--	--	--	--	--	--	--	X	--	--	--	X	--	X	--	--	--	X	--	--	--	X	--	X
<i>Lepomis</i> HYBRID	X	--	--	--	--	--	--	X	--	X	X	--	--	X	X	X	X	X	X	X	--	X	X	X
<i>Lepomis</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X
SMALLMOUTH BASS	--	--	--	--	--	--	X	--	--	--	--	X	--	X	X	--	X	X	X	--	--	--	--	--
LARGEMOUTH BASS	X	X	X	--	--	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WHITE CRAPPIE	X	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	X	--	--	--
BLACK CRAPPIE	X	--	--	--	--	--	--	--	--	X	--	X	--	--	X	--	--	--	--	--	X	--	--	--
YELLOW PERCH	X	X	X	X	X	X	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	--	X
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	--	X	X	X

List of Fish Species Collected from Brandon Pool for all Sampling Gears, Locations, and Dates, 1984-2013.

SPECIES	84	85	86	87	88	89	90	91	92	93	94	95	00	01	02	05	06	07	08	09	10	11	12	13
LONGNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	--	--	--
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--
SKIPJACK HERRING	--	--	--	X	--	X	--	X	--	--	X	X	X	X	X	X	--	--	--	--	--	X	X	--
ALEWIFE	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THREADFIN SHAD	--	--	--	--	--	--	--	X	--	--	--	--	X	X	X	--	X	X	X	X	X	--	X	X
<i>Dorosoma</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
CHINOOK SALMON	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RAINBOW SMELT	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CENTRAL MUDMINNOW	--	--	X	X	--	--	--	X	--	--	--	X	--	--	--	--	--	X	--	X	X	X	--	--
GRASS PICKEREL	--	--	X	X	X	X	X	X	--	X	X	--	X	X	X	--	X	X	X	X	X	X	--	--
NORTHERN PIKE	--	--	--	--	--	--	--	--	--	X	X	X	--	--	--	--	--	X	X	X	X	X	--	X
HYBRID PIKE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	--	--	--
CENTRAL STONEROLLER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	--	--	--	--	--
GOLDFISH	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GRASS CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	X	--	X	X	--	--	--
COMMON CARP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CARP X GOLDFISH HYBRID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	--	X	X
GOLDEN SHINER	X	X	X	X	--	X	X	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X
EMERALD SHINER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	--	--	--	--
STRIPED SHINER	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	X	--	--	--	--	--	--
COMMON SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--
BIGMOUTH SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
SPOTTAIL SHINER	--	X	--	--	--	--	--	--	--	--	X	X	--	X	X	X	--	X	X	--	X	X	--	--
ROSYFACE SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--
SPOTFIN SHINER	--	--	--	--	--	--	--	--	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X
SAND SHINER	--	--	--	--	--	--	--	--	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	--
MIMIC SHINER	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Notropis</i> sp.	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--
BLUNTNOST MINNOW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FATHEAD MINNOW	X	--	--	--	X	--	X	--	--	X	X	X	--	--	X	X	X	X	X	X	X	X	X	--
BULLHEAD MINNOW	--	X	X	X	--	X	--	--	X	X	--	--	--	--	X	X	X	X	--	--	--	--	--	--
CREEK CHUB	--	X	X	--	--	--	--	X	--	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--
CYPRINIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--
WHITE SUCKER	--	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SMALLMOUTH BUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	--	--	--	--	--
SPOTTED SUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	X	X	--	--
SILVER REDHORSE	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--
SHORTHEAD REDHORSE	--	X	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--
<i>Moxostoma</i> sp.	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--
CATOSTOMINAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--

List of Fish Species Collected from Brandon Pool for all Sampling Gears, Locations, and Dates, 1984-2013.

SPECIES	84	85	86	87	88	89	90	91	92	93	94	95	00	01	02	05	06	07	08	09	10	11	12	13
ICTIOBINA sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--
ORIENTAL WEATHERFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	--	X	X	X	--	X	X
BLACK BULLHEAD	X	X	X	X	--	--	X	--	--	--	X	--	--	--	X	--	--	--	--	--	X	--	--	--
YELLOW BULLHEAD	--	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CHANNEL CATFISH	--	--	--	--	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Ameiurus</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--
TADPOLE MADTOM	X	X	X	X	X	X	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X
FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--
BANDED KILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WESTERN MOSQUITOFISH	--	--	--	--	--	X	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	X	--
BROOK STICKLEBACK	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WHITE PERCH	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	--	X	X	X	X	X	--	X	--
WHITE BASS	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	X	--	--	X	--	--	--	--	X
YELLOW BASS	--	--	X	--	--	--	--	--	--	X	--	X	X	X	X	X	--	X	X	--	X	--	--	X
HYBRID STRIPER	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Morone</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--
ROCK BASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	--	X	X
GREEN SUNFISH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PUMPKINSEED	--	--	X	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	X	--	--	X	--
ORANGESPOTTED SUNFISH	--	--	--	--	--	X	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X
BLUEGILL	X	--	--	X	--	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
NORTHERN SUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	X	X	X
<i>Lepomis</i> HYBRID	--	X	X	X	--	X	--	X	--	--	--	--	X	--	X	X	X	X	X	X	X	X	X	X
<i>Lepomis</i> sp.	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	X	X	X	X	X	X	X	X	X
SMALLMOUTH BASS	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	X	X	X	X	X	X	X	X	X
LARGEMOUTH BASS	--	--	X	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WHITE CRAPPIE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	X	X	--
BLACK CRAPPIE	X	--	--	X	--	X	X	X	X	X	X	--	--	--	X	X	--	X	X	X	X	X	--	X
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	X	X	X	X	X	X	X	X
YELLOW PERCH	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X
LOGPERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	--	X
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	--	X	X	X	X	X	X	X	X
SAUGER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	--	X	--	--
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--
FRESHWATER DRUM	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X

List of Fish Species Collected from the Upstream I-55 Segment for all Sampling Gears, Locations, and Dates, 1977-2013.

SPECIES	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	
LONGNOSE GAR	--	--	--	--	--	--	--	X	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	
GAR sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	X	--	--	--	--	X	--	X	X	--	--	--	
BOWFIN	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	X	--	--	--
CLUPEIDAE sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--
SKIPJACK HERRING	--	X	X	--	X	X	X	X	--	--	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	--	X	X	--	X	X	X	--	X	--	--
ALEWIFE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GIZZARD SHAD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
THREADFIN SHAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	X	X	X	X	--	X	--	X	--	X	X	X	X	X	X	X
<i>Dorosoma</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	--	--	X	
GOLDEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GRASSPICKEREL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	X	X	--	--	--	--	X	X	X	--	X	X	X	
NORTHERN PIKE	--	X	--	--	--	--	--	X	--	--	--	--	--	--	--	--	X	X	X	--	X	--	--	X	--	--	--	--	--	X	X	X	X	X	X	--	
CENTRAL STONEROLLER	--	X	X	--	--	--	--	--	--	X	--	--	--	X	--	--	X	X	--	X	X	X	--	X	--	X	--	X	X	X	X	X	X	X	X	X	X
GOLDFISH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X
GRASS CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	--	X	--	X	X	X	--	X	--	--	
COMMON CARP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CARP X GOLDFISH HYBRID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X	
BIGHEAD CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--
SILVER CHUB	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HORNHEAD CHUB	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	X	X	X	--	X	X	X	--	--	X	--	--	X	
GOLDEN SHINER	--	X	--	--	--	--	X	--	X	X	X	X	--	X	X	--	X	X	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PALLID SHINER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	X	X	--	X	--	
EMERALD SHINER	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
GHOST SHINER	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	X	X	--	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	--	--	X
STRIPED SHINER	--	X	--	--	--	X	--	--	--	--	--	X	X	X	--	X	X	X	X	--	X	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	
COMMON SHINER	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	
BIGMOUTH SHINER	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	X	X	--	--	--	X	X	--	--	X	--	--	
SPOTTAIL SHINER	--	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X																					

List of Fish Species Collected from the Upstream I-55 Segment for all Sampling Gears, Locations, and Dates, 1977-2013.

SPECIES	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13
<i>Pimephales</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--
BLACKNOSE DACE	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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RIVER CARPSUCKER	--	X	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
QUILLBACK	--	--	X	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X	X	X	X	X	X	X
HIGHFIN CARPSUCKER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--
<i>Carpiodes</i> sp.	--	--	--	--	--	--	--	--	X	--	X	X	--	X	--	X	--	--	--	X	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--
WHITE SUCKER	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--	X	--	X	X	X	X	X
SMALLMOUTH BUFFALO	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BIGMOUTH BUFFALO	--	--	--	--	--	X	X	X	--	--	X	X	--	X	X	--	--	--	X	X	--	X	X	X	X	X	X	--	X	--	--	--	X	--	X	--
BLACKBUFFALO	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	--	X	X	X	X	X	X	X	--	--	--	--	--	--	X	--	X
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GOLDEN REDHORSE	--	X	--	--	X	--	--	--	--	X	--	--	X	X	X	X	X	X	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X
SHORTHEAD REDHORSE	--	X	--	--	X	X	--	--	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Moxostoma</i> sp.	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	X
CATOSTOMINAEsp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	--	--	--
ICTIOBINAE sp.	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	--	--	--	--	--	X	--	--	--	--	X	--	--	--	--	--	--
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BLACKBULLHEAD	--	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X	X	X	--	X	--	X	--	--	--	X	--	--	--	--	--	--	--	--	--
YELLOWBULLHEAD	--	--	X	--	--	--	--	--	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BROWNBULLHEAD	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CHANNELCATFISH	--	X	X	--	X	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Ameiurus</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--
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FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	X	--	X	X	X	X	X	X	X	X	X	X	--	X	X	X
BANDEDKILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BROOK SILVERSIDE	--	--	--	--	--	--	--	--	X	--	--	X	X	X	--	--	--	X	--	X	--	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X
WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	X	X	X	X	X	X	X	X	--	--	--	X	X	--	X	--	--	--
WHITE BASS	--	--	--	--	--	--	--	X	--	--	--	--	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X
YELLOW BASS	--	--	--	X	--	X	--	--	--	X	--	--	X	X	--	--	X	--	X	--	--	X	X	X	--	--	X	X	--	X	X	--	X	--	--	--
STRIPEDBASS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<i>Morone</i> HYBRID	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	--	--	--	--
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List of Fish Species Collected from the Upstream I-55 Segment for all Sampling Gears, Locations, and Dates, 1977-2013.

SPECIES	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13
ROCK BASS	--	--	--	--	--	--	X	X	--	--	--	--	--	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GREENSUNFISH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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ORANGESPOTTED SUNFISH	X	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
BLUEGILL	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
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LARGEMOUTH BASS	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Micropterus</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
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FRESHWATER DRUM	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X

List of Fish Species Collected from the Downstream I-55 Segment for all Sampling Gears, Locations, and Dates, 1977-2013.

SPECIES	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	
SPOTTED GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	
LONGNOSE GAR	--	X	X	--	--	--	--	--	--	--	X	X	--	X	X	X	X	X	X	X	X	--	X	X	X	X	--	X	X	X	X	X	X	X	X	X	
SHORTNOSE GAR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
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GIZZARD SHAD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
THREADFINSHAD	--	--	--	--	--	X	X	--	--	--	--	--	--	--	X	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Dorosoma</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	X	--	
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GRASS CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	X	--	--	--	--	--	--	--	--	--	
COMMON CARP	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CARP X GOLDFISH HYBRID	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BIGHEAD CARP	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--	
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SPOTFIN SHINER	X	X	X	--	--	--	X	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SAND SHINER	X	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	--	--	--	X	X	X	X	X	X	X	X	--	--	--	X	X	
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SUCKERMOUTH MINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	
BLUNTNOSE MINNOW	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
FATHEAD MINNOW	--	X	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--	X	--	X	--	--	--	--	--	X	X	X	X	--	X	X	--	--	--	--	
BULLHEAD MINNOW	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

List of Fish Species Collected from the Downstream I-55 Segment for all Sampling Gears, Locations, and Dates, 1977-2013.

SPECIES	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	
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RIVER CARPSUCKER	X	X	--	--	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X	
QUILLBACK	--	--	X	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
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SHORTHEAD REDHORSE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X
GREATER REDHORSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	
<i>Moxostoma</i> sp.	--	--	X	--	--	X	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
CATOSTOMINAEsp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	
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BLACKBULLHEAD	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	--
YELLOWBULLHEAD	--	--	--	--	--	X	X	--	X	--	X	--	X	X	X	--	X	X	--	X	X	X	X	X	X	X	X	--	X	X	X	X	X	X	X	X	
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FLATHEAD CATFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	--	--	--	--	--	--	--	X	--	--	--	--	--	X	--	--	X	
TROUT-PERCH	--	--	X	--	--	--	--	--	X	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
BANDEDKILLIFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	
BLACKSTRIPE TOPMINNOW	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WESTERN MOSQUITOFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	
BROOK SILVERSIDE	X	--	--	--	--	--	--	X	X	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BROOK STICKLEBACK	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	
WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	X	--	X	--	--	--	X	X	--	X	--	--	--	--	X	X	X	--	--	--	
WHITE BASS	--	--	--	--	--	--	X	--	--	--	X	X	--	--	X	--	X	X	X	X	X	X	X	--	X	X	X	--	--	X	--	--	--	--	--	--	
YELLOW BASS	--	--	--	--	X	X	X	X	X	X	X	X	X	X	X	--	X	X	X	X	X	X	X	--	X	X	X	X	--	--	X	--	X	--	--	X	
STRIPEDBASS	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
YELLOW BASS/WHITE PERCH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	
HYBRIDSTRIPER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	--	--	--	--	X	--	--	--	--	--	--	X	--	--	--	--	--	
<i>Morone</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	X	--	--	--	--	--	--	--	--	--	--	X	--	--	--	
ROCK BASS	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	X	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

List of Fish Species Collected from the Downstream I-55 Segment for all Sampling Gears, Locations, and Dates, 1977-2013.

SPECIES	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	
GREENSUNFISH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PUMPKINSEED	X	--	--	--	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	--	X	X	X	--	X	X	X	X	X	--	X	X	--	X	X	X	
WARMOUTH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	X	--	X	--	X	X	--	--	--	X	--	--	--	--	
ORANGESPOTTED SUNFISH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BLUEGILL	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
REDEARSUNFISH	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	X	--	--	--	--	--	--	X	--
NORTHERN SUNFISH	--	--	--	--	--	--	--	X	--	X	--	X	X	X	--	X	--	X	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Lepomis</i> HYBRID	--	--	--	--	X	--	X	X	X	X	--	--	X	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Lepomis</i> sp.	--	--	--	--	--	--	--	--	X	--	--	X	X	--	X	X	X	X	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SMALLMOUTH BASS	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LARGEMOUTH BASS	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
<i>Micropterus</i> sp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	
WHITE CRAPPIE	--	X	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	X	X	X	X	--	X	X	X	--	X	X	--	--	--	--	--	--	
BLACK CRAPPIE	--	X	X	--	--	--	X	X	X	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	--	
JOHNNY DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	--	--	X	--	--	--	X	X	--	--	--	X	X	X	X	X	--	
YELLOW PERCH	--	X	X	X	--	--	X	X	--	--	X	X	X	X	--	--	--	--	--	--	X	--	--	--	--	--	--	--	--	--	--	X	--	--	--	--	
LOGPERCH	--	--	--	--	--	X	X	--	--	--	--	--	--	X	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
BLACKSIDE DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	--	X	X	X	--	X	X	X	X	X	--	--	
SLENDERHEAD DARTER	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	--	--	X	X	X	X	--	X	X	--	X	X	X	X	X	--	--	--	--	
WALLEYE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	--	X	X	--	--	--	--	--	--	X	--	--	
FRESHWATER DRUM	--	--	--	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ROUND GOBY	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	X	X	X	X	--	X	X	X	X	--	X	