# EVALUATION OF THE FISH COMMUNITY AND WALLEYE STOCKINGS AT EAGLE CREEK RESERVOIR

Marion County

2008 Fish Management Report

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# EXECUTIVE SUMMARY

- Eagle Creek Reservoir is a 1,350 acre water supply impoundment located 10 mi northwest of downtown Indianapolis.

- Largemouth bass sampling was conducted one night a week from April 15 to April 29, 2008.

- A total of 313 largemouth bass was collected that weighed an estimated 426 lbs. Largemouth ranged in length from 2.8 to 21.5 in and averaged 13.2 in, similar to the 2003 spring bass sampling average of 13.1 in. Of the bass collected, only 4% were age-1 and 83% were age-3 or older. Overall, 42% of largemouth collected were 14 in or larger.

- The fish community survey was conducted May 12 to 14 and 19 to 21, 2008.

- There were 5,277 fish collected that weighed 1,560 lbs. Twenty-four species and hybrid sunfish comprised the sample.

- The predominant species collected by number were gizzard shad (29%), white crappie (24%), and bluegill (19%). White crappie was first in abundance by weight (20%), followed by channel catfish (19%), gizzard shad (18%), common carp (14%), and largemouth bass (13%).

- There were 1,519 shad collected that weighed 277 lbs. Shad ranged in length from 4.2 to 13.7 in and averaged 8.3 in. Ninety-eight percent of shad collected were 7.0 in or larger. Only 2% of shad collected were age 1.

- A total of 1,283 white crappie was collected that weighed 312 lbs. Only 28% of the white crappie collected were 8.5 in or larger compared to 80% in 2003. However, 68% of the white crappie sampled were age 2 and they averaged 7.4 in.

- The fall walleye evaluation was conducted September 30 to October 1, 2008.

- A total of 68 walleye was collected that weighed 23.90 lbs. Walleye ranged in length from 7.8 to 16.0 in and averaged 10.0 in. Walleye electrofishing CPUE was 17.0/h. The electrofishing CPUE of YOY walleye was 11.8/h. Twenty-one age-1 walleye were collected at a rate of 5.3/h of electrofishing. Age-1 walleye up to 16.0 in were found and they averaged 12.7 in.

- The stocking of 135,000 (100/acre) fingerling walleye should continue on an annual basis. A creel survey to determine angler effort and harvest is tentatively scheduled for 2011 under the impoundment black bass management plan, where the walleye fishery will be a focus as well.

- Future consideration should be given to stocking muskellunge.

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# INTRODUCTION

Eagle Creek Reservoir is a 1,350 acre water supply impoundment located 10 mi northwest of downtown Indianapolis. The reservoir is owned by the city of Indianapolis and maintained by Indy Parks and Recreation. There are daily entrance and boat launching fees or an annual entrance pass is available. Gasoline motors are restricted to 10 horsepower or less. More information about the park and current fees can be found on the park's internet site at www.indyparks.org.

Construction of the reservoir was completed in 1968 and a pre-impoundment eradication of undesirable fish was conducted. Unfortunately, the renovation was not successful as gizzard shad and other non-game species were found the following year. Shad quickly became the primary forage fish in the reservoir. Predator stockings have been used at the reservoir to utilize the abundant forage base. White bass, northern pike, hybrid striped bass, and walleye have been stocked at one time or another throughout the history of the lake.

Walleye stockings began in 1997 and are the only predators currently stocked. Following several years of unsuccessful walleye fry stockings at Eagle Creek, it was determined that walleye fingerlings should be stocked (Long 2006). The current stocking goal is 100 fingerlings/acre (Table 1). The last fall walleye evaluation was conducted in 2007.

The last fish community survey was conducted in 2003 (Keller 2004). Bluegill was the most numerous species collected, while shad numbers were down due to the harsh winter conditions of 2002-2003. Largemouth bass abundance had improved and nearly half of the bass sampled were 14 in or larger. The last spring largemouth bass survey was conducted in 2003.

The present survey was conducted to evaluate the fish community at Eagle Creek Reservoir. Intensive largemouth bass sampling was conducted in the spring to evaluate the quality of the bass fishery. In addition, a fall evaluation was conducted to evaluate the success of the 2008 walleye stockings along with survival and growth of previously stocked walleye.

## METHODS

### Largemouth Bass Sampling

Largemouth bass sampling was conducted one night a week from April 15 to 29, 2008. Bass were collected via night DC electrofishing for 2 h a night for a total of 6 h (24, 15-min stations). Largemouth were measured to the nearest 0.1 in TL and weights were estimated using central Indiana averages. Scale samples were collected for age and growth determination. Approximately 70% of the reservoir shoreline was sampled.

### Fish Community Survey

The fish community survey was conducted May 12 to 14 and 19 to 21, 2008. Physical and chemical characteristics of the lake were measured and collected according to DFW survey guidelines (2001).

Fish were collected via night DC electrofishing for 2 h (8, 15-min stations) using two dippers, 15 standard experimental gill net lifts, and 8 trap net lifts. Normally, 16 gill nets are deployed on a standard survey, but one gill net was determined unusable during the sampling process. The collected fish were measured to the nearest 0.1 in TL. Scale samples were collected for age and growth analysis. Weight estimates of all species were calculated using central Indiana averages. Proportional stock density (PSD) was calculated for bluegill and largemouth bass (Anderson and Neumann 1996). The Bluegill Fishing Potential Index (BGFP) was used to describe the bluegill fishery (Ball and Tousignant 1996).

### Fall Walleye Evaluation

The fall walleye evaluation was conducted September 30 to October 1, 2008. Survey effort consisted of 4 h of night DC electrofishing. Electrofishing stations duplicated those of previous fall walleye evaluations. Walleye were measured to the nearest 0.1 in TL and weighed to the nearest 0.01 lb. Scale samples were collected for age and growth determination.

## RESULTS

### Largemouth Bass Sampling

Cooler spring weather kept the water temperature relatively low the first week as it was 50°F the first night of sampling. The air temperature increased the following weeks and on the second and third nights of sampling the water temperature was 58°F.

A total of 313 largemouth bass was collected that weighed an estimated 426 lbs. Electrofishing catch rates were 34.0/h the first night, 71.5/h the second night, and 51.5/h the third night. The catch rate for all three nights was 52.2/h, compared to 79.3/h for all three nights in 2003. Largemouth ranged in length from 2.8 to 21.5 in and averaged 13.2 in, similar to the 2003 spring bass sampling average of 13.1 in. The percentage of bass collected that met or exceeded the 14-in minimum size limit was 38% the first night, 48% the second night, and 35% the third night. Overall, 42% of largemouth collected were 14 in or larger. Of the bass collected, only 4% were age-1 and 83% were age-3 or older. Largemouth PSD (74) was similar to spring sampling in 2003 (73). Bass are reaching the 14-in minimum size limit in approximately four years.

### Fish Community Survey

The surface temperature at Eagle Creek Reservoir on May 12 was 61.9°F. Dissolved oxygen concentrations were suitable for fish survival down to 42 ft. Conductivity was 400 µS and the Secchi disk measurement was 2.5 ft.

There were 5,277 fish collected that weighed 1,560 lbs. Twenty-four species and hybrid sunfish comprised the sample. The predominant species collected by number were gizzard shad (29%), white crappie (24%), and bluegill (19%). Yellow bass, channel catfish, and longear sunfish were the only other species that accounted for at least 5% of the sample by number. White crappie was first in abundance by weight (20%), followed by channel catfish (19%), gizzard shad (18%), common carp (14%), and largemouth bass (13%). Other notable species sampled were black crappie, walleye, white bass, and flathead catfish.

Gizzard shad was the most abundant species collected by number (29%) and third most collected by weight (18%). In 2003, shad accounted for 21% of the sample number and 8% of the sample weight. Gill net CPUE increased to 67.9/lift (12.8/lift in 2003), but

electrofishing CPUE (233.5/h) stayed very similar to 2003 (234.0/h). There were 1,519 shad collected that weighed 277 lbs. Shad ranged in length from 4.2 to 13.7 in and averaged 8.3 in. Ninety-eight percent of shad collected were 7.0 in or larger. Only 2% of shad collected were age 1. Age-2 and age-3 shad comprised 83% of the collection.

A total of 1,283 white crappie was collected that weighed 312 lbs. White crappie abundance by number (24%) and weight (20%) increased substantially compared to 2003 (14% and 13%, respectively). Electrofishing (35.5/h) and trap net (127.0/lift) catch rates were dramatically higher than the 2003 electrofishing (5.0/h) and trap net (48.3/lift) catch rates. White crappie ranged in length from 4.4 to 14.4 in and averaged 8.0 in. Only 28% of the white crappie collected were 8.5 in or larger compared to 80% in 2003. However, 68% of the white crappie sampled were age 2 and averaged 7.4 in. Age-1 white crappie accounted for just 4% of the collection.

Bluegill ranked third in abundance by number (19%) and sixth in abundance by weight (6%). There were 1,001 bluegill collected weighing 98 lbs. Bluegill CPUE was 365.0/h of electrofishing and 33.1/gill net lift. Bluegill ranged in length from 2.2 to 7.8 in and averaged 5.2 in. The percentage of 6.0 in or larger bluegill collected increased from 18% in 2003 to 26%. Only 44 age-1 bluegill were collected. Age-2 and age-3 bluegill accounted for 75% of the collection. Bluegill PSD was 15. The BGFP score was 13 which equates to a “fair” rating for the bluegill fishery.

Yellow bass ranked fourth in abundance with 349 collected. Yellow bass from 4.2 to 10.5 in were found and they averaged 6.3 in. Total weight for yellow bass was 38 lbs, compared to 4 lbs in 2003.

Two hundred and seventy-one channel catfish weighing 292 lbs were collected. Channels ranked fifth in abundance by number (5%) and second in abundance by weight (19%). CPUE of channel catfish was 16.1/gill net lift and 9.5/h of electrofishing. Channels were found up to 28.9 in and they averaged 13.4 in. Fifty-two percent of the catfish were 12.0 in or larger (62% in 2003) and 17% were 18.0 in and longer (19% in 2003).

There were 147 largemouth bass collected weighing 195 lbs. The electrofishing CPUE of largemouth (72.5/h) was comparable to 2003 (63.5/h). Bass abundance by number (3%) and weight (13%) were similar to 2003 (4% and 14%, respectively).

Largemouth ranged in length from 2.7 to 21.3 in and averaged 12.9 in. Forty-one percent of the bass collected met or exceeded the 14-in minimum size limit, compared to 48% in 2003. Largemouth bass PSD was 82 during the community survey, slightly higher than the 2003 community survey PSD of 76.

A total of 77 common carp that weighed 222 lbs was collected. Carp was the most abundant species by weight in 2003 (26%) and only fourth by weight (14%) in the present survey. Carp as large as 25.7 in were found and averaged 17.4 in.

Walleye represented less than 1% of the sample by number and weight. A total of 24 walleye was collected that weighed 7 lbs. Walleye from 5.4 to 13.0 in were found while the average length was 9.2 in. CPUE of walleye was 8.5/h of electrofishing and 0.5/gill net lift. Twenty-two age-1 walleye were collected that ranged in length from 5.4 to 12.6 in. The remaining two walleye were both age 2.

The remaining 16 species and hybrid sunfish accounted for 11% of the sample by number and 8% by weight. Notable species of interest to anglers were black and brown bullheads, black crappie, flathead catfish, longear sunfish, and white bass.

Fall Walleye Evaluation

A total of 68 walleye was collected that weighed 23.90 lbs. Walleye ranged in length from 7.8 to 16.0 in and averaged 10.0 in. Walleye electrofishing CPUE was 17.0/h. Only 6% of the walleye collected were 14 in or larger.

There were 47 YOY walleye collected. YOY ranged in length from 7.8 to 9.8 in and averaged 8.8 in, an increase from 7.2 in in 2007 (Smyth 2008). The electrofishing CPUE of YOY walleye was 11.8/h, compared to 32.0/h in 2007 (Table 1). Twenty-one age-1 walleye were collected at a rate of 5.3/h of electrofishing. Age-1 walleye up to 16.0 in were found and they averaged 12.7 in.

## DISCUSSION

Eagle Creek Reservoir continues to have a fluctuating gizzard shad population. By number, shad are atop the fish community again. Shad of any age feed heavily on zooplankton, negatively affecting recruitment of most other species in the reservoir by competing with them for food. Since the reservoir is a water supply source for the city of

Indianapolis, manipulation of the water level and/or gizzard shad selectives are not an option. Management efforts have focused on maintaining a strong predator base to utilize the abundance of forage, while providing anglers with an extra opportunity at the same time. Harsh winter conditions at Eagle Creek have led to shad kills in the past and could lead to improved recruitment and growth of many species in the reservoir if winter conditions cooperate once again.

There were relatively few age-1 shad, crappie, bluegill, and bass collected. The weak 2007 year class of gizzard shad and game species could be attributed to a few different factors. The exceptionally large 2006 year class of white crappie could have had a substantial impact on 2007 recruitment through predation. While not always considered voracious predators, crappie sometimes can be given the right situation. Also, the combination of high discharge levels during the spawning period and the extended drought conditions in 2007 could have negatively affected recruitment as well. Muddy water and the high discharge levels could have seriously impacted recruitment of fish spawning during that period. The lower water levels associated with the drought conditions might have eliminated crucial habitat for young of the year fish and left them more vulnerable to predation.

The largemouth bass population was relatively unchanged since 2003. Although the 2008 bass sampling CPUE (52.2/h) was substantially lower than it was in 2003 (79.3/h), this was more likely a result of cooler water temperatures than it was a decline in bass abundance. Warmer water in the spring moves largemouth up into the shallows, promoting spawning activity and increasing their susceptibility to being caught via electrofishing. The average water temperature over the course of the three week survey was 55°F and the three week average in 2003 was 61°F. Catch rates during the community survey were more similar, and in fact the 2008 CPUE (72.5/h) was slightly better than it was in 2003 (63.5/h). Size structure was still excellent with 41% of bass at or above the 14-in minimum size limit and 8% at or above 18 in. Although 2007 was a weak year class, excellent numbers of young-of-the-year bass were seen in 2008 during the fall evaluation for walleye. Though largemouth abundance was still fairly low, bass exhibited good growth.

White crappie made a substantial increase in abundance from the 2003 survey. Cyclic in nature, white crappie appear to be at or near peak abundance in Eagle Creek. The 2006 year class (age 2) dominated the collection and changed the size structure from 2003. White crappie are exemplifying good initial growth as age-2 fish are averaging 7.4 in. Anglers should have excellent opportunities for harvestable size white crappie for the next few years.

The Division of Fish and Wildlife (DFW) criteria for walleye stocking success is the collection of at least seven YOY walleye/h of electrofishing. The 2008 stocking was successful with a CPUE of 11.8 YOY/h. The 1997 to 2005 YOY CPUE average when fry were stocked was 9.5/h (includes 2000 and 2001 when surplus fingerlings were also stocked). However, from 2002 to 2005 the YOY CPUE average was only 2.8/h, and the walleye population had dwindled substantially. In years when only fingerlings were stocked (1999, 2007, and 2008) the average YOY CPUE was 33.5/h. The stockings have far surpassed the success criteria each year the DFW has stocked only fingerlings. Therefore, the stocking of 135,000 (100/acre) fingerling walleye should continue on an annual basis. A creel survey to determine angler effort and harvest is tentatively scheduled for 2011 under the impoundment black bass management plan, where the walleye fishery will be a focus as well.

Eagle Creek Reservoir should be considered a future site for muskellunge stockings. With the abundance of gizzard shad and other non-game species, muskies would have plenty of forage to utilize. Currently the DFW's statewide muskellunge program does not produce enough fish to stock Eagle Creek. If future changes allow the production of more muskies, Eagle Creek could be a potential candidate. However, since Eagle Creek is not used for flood control and excess water is immediately discharged over the dam, there is concern whether muskies would stay in the lake after being stocked.

## RECOMMENDATIONS

- The stocking of 135,000 (100/acre) fingerling walleye should continue on an annual basis.
- Future consideration should be given to stocking muskellunge.

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Date: February 26, 2009

Approved by: J. Rhett Wisener, Fisheries Biologist

Approved by: Brian M. Schoenung, Fisheries Supervisor

Date: June 4, 2009

Table 1. Walleye stockings at Eagle Creek Reservoir from 1997 to 2008.

| Year | Number | Size | % of recommended stocking | YOY CPUE |
|---|---|---|---|---|
| 1997 | 1,780,125 | Fry | 44 | 8.3 |
| 1998 | 1,756,625 | Fry | 43 | No fall evaluation |
| 1999 | 143,064 | Fingerling | 106 | 56.8 |
| 2000 | 2,413,450 | Fry | 60 | 17.8 |
| | 6,411 | Fingerling | 5 | |
| 2001 | 3,318,200 | Fry | 82 | 22.7 |
| | 25,000 | Fingerling | 19 | |
| 2002 | 3,882,200 | Fry | 96 | 2.3 |
| 2003 | 4,830,425 | Fry | 119 | 5.5 |
| 2004 | ********** No stocking ********** | | | |
| 2005 | 4,305,200 | Fry | 106 | 0.5 |
| 2006 | 4,145,400 | Fry | 102 | No fall evaluation |
| 2007 | 120,609 | Fingerling | 89 | 32.0 |
| 2008 | 122,059 | Fingerling | 90 | 11.8 |

# LAKE SURVEY REPORT

Type of Survey: [ ] Initial Survey [X] Re-Survey

| Lake Name | County | Date of survey (Month, day, year) |
|---|---|---|
| Eagle Creek Reservoir | Marion | 4/15/08-5/21/08 |
| **Biologist's name** | | **Date of approval (Month, day, year)** |
| Jamie L. Smyth, Assistant Fisheries Biologist | | 6/4/2009 |

## LOCATION

| Quadrangle Name | Range | Section |
|---|---|---|
| Clermont, Zionsville | 2E | 15, 16, 3, 4, 9, 10, 33, 28 |
| **Township Name** | **Nearest Town** | |
| 17N, 16N | Indianapolis | |

## ACCESSIBILITY

| State owned public access site | Privately owned public access site | Other access site |
|---|---|---|
| | | |

| Surface acres | Maximum depth | Average depth | Acre feet | Water level | Extreme fluctuations |
|---|---|---|---|---|---|
| 1,350 | 45 ft | 18 ft | 24,300 | 783 msl | Approx 8 ft |

Location of benchmark

BM 790, T16N, R2E, S15, SW 1/4, NE 1/4

## INLETS

| Name | Location | Origin |
|---|---|---|
| Eagle Creek | North | T18N, R2E, S23 |
| Shoal Branch | West | T17N, R2E, S36 |
| Fishback Creek | Northwest | T18N, R2E, S29 |

## OUTLETS

| Name | Location |
|---|---|
| Eagle Creek | South (outlet is at east end of dam) |

Water level control

| POOL | ELEVATION (Feet MSL) | ACRES |
|---|---|---|
| TOP OF DAM | 825 | |
| TOP OF FLOOD CONTROL POOL | 811.5 | 2,650 |
| TOP OF CONSERVATION POOL | 790 | 1,350 |
| TOP OF MINIMUM POOL | 790 | 1,350 |
| STREAMBED | 750 | |

**Bottom type**

| | |
|---|---|
| [ ] | Boulder |
| [X] | Gravel |
| [X] | Sand |
| [X] | Muck |
| [X] | Clay |
| [ ] | Marl |

Watershed use

Primarily residential, some commercial and industrial. Some agriculture in the upper part of watershed.

Development of shoreline

Large boat ramp complex in the southern part of the lake, small boat ramp in the northern part of the lake. Eagle Creek Park, beach, picnic areas, shore fishing areas, private boat docks and residences, and sailing marina.

Previous surveys and investigations

Pre-impoundment survey: 1966. Pre-impoundment eradication and restocking: 1968. Fish community surveys: 1969, 1971, 1973, 1975, 1978, 1984, 1998, 2003. Predator stocking evaluations and spot-checks: 1979, 1980, 1986, 1988, 1990, 1994, 1995, 1997, 1999, 2000, 2001, 2002, 2003, 2005, 2007.

| SAMPLING EFFORT | | | | | |
|---|---|---|---|---|---|
| ELECTROFISHING | Bass sampling (night hours) 6 | | Standard survey (night hours) 2 | | Total hours 6 and 2 |
| TRAP NETS | Number of traps 2 | | Number of Lifts 8 | | Total effort 8 |
| GILL NETS | Number of nets 4 | | Number of Lifts 15 | | Total effort 15 |
| ROTENONE | Gallons | ppm | Acre Feet Treated | SHORELINE SEINING | Number of 100 Foot Seine Hauls |

| PHYSICAL AND CHEMICAL CHARACTERISTICS | |
|---|---|
| Color: Brown | Turbidity: 2 Feet 6 Inches (SECCHI DISK) |
| Alkalinity (ppm)*: Surface: 188.1 Bottom: 153.9 | pH: Surface: 9.2 Bottom: 9.0 |
| Conductivity: 400 microsiemens | Air temperature: °F |
| Water chemistry GPS coordinates: N W | |

| TEMPERATURE AND DISSOLVED OXYGEN (D.O.) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DEPTH (FEET) | Degrees (°F) | D.O. (ppm) | DEPTH (FEET) | DEGREES (°F) | D.O. (ppm) | DEPTH (FEET) | DEGREES (°F) | D.O. (ppm) |
| SURFACE | 61.9 | 10.3 | 36 | 58.8 | 7.6 | 72 | | |
| 2 | 61.7 | 10.2 | 38 | 57.7 | 7.3 | 74 | | |
| 4 | 61.5 | 10.0 | 40 | 57.2 | 7.3 | 76 | | |
| 6 | 61.3 | 9.8 | 42 | 56.8 | 7.1 | 78 | | |
| 8 | 61.3 | 9.8 | 44 | | | 80 | | |
| 10 | 61.2 | 9.6 | 46 | | | 82 | | |
| 12 | 60.6 | 9.0 | 48 | | | 84 | | |
| 14 | 60.6 | 8.8 | 50 | | | 86 | | |
| 16 | 60.4 | 8.8 | 52 | | | 88 | | |
| 18 | 60.4 | 8.7 | 54 | | | 90 | | |
| 20 | 60.3 | 8.7 | 56 | | | 92 | | |
| 22 | 60.3 | 8.6 | 58 | | | 94 | | |
| 24 | 59.9 | 8.3 | 60 | | | 96 | | |
| 26 | 59.9 | 8.2 | 62 | | | 98 | | |
| 28 | 59.7 | 8.2 | 64 | | | 100 | | |
| 30 | 59.7 | 8.2 | 66 | | | | | |
| 32 | 59.5 | 8.0 | 68 | | | | | |
| 34 | 59.2 | 7.7 | 70 | | | | | |

| COMMENTS |
|---|
| |
| |
| |

*ppm-parts per million

| SPECIES AND RELATIVE ABUNDANCE OF FISHES COLLECTED BY NUMBER AND WEIGHT | | | | | |
|---|---|---|---|---|---|
| *COMMON NAME OF FISH | NUMBER | PERCENT | LENGTH RANGE (inches) | WEIGHT (pounds) | PERCENT |
| Gizzard shad | 1519 | 28.8 | 4.2 - 13.7 | 276.49 | 17.7 |
| White crappie | 1283 | 24.3 | 4.4 - 14.4 | 311.51 | 20.0 |
| Bluegill | 1001 | 19.0 | 2.2 - 7.8 | 97.87 | 6.3 |
| Yellow bass | 349 | 6.6 | 4.2 - 10.5 | 38.44 | 2.5 |
| Channel catfish | 271 | 5.1 | 6.1 - 28.9 | 292.07 | 18.7 |
| Longear sunfish | 269 | 5.1 | 2.5 - 5.6 | 13.19 | 0.8 |
| Largemouth bass | 147 | 2.8 | 2.7 - 21.3 | 195.44 | 12.5 |
| Green sunfish | 107 | 2.0 | 2.5 - 7.2 | 5.17 | 0.3 |
| Common carp | 77 | 1.5 | 6.8 - 25.7 | 222.00 | 14.2 |
| Spotted sucker | 71 | 1.3 | 4.9 - 15.9 | 39.16 | 2.5 |
| Black crappie | 34 | 0.6 | 4.3 - 9.2 | 5.52 | 0.4 |
| Walleye | 24 | 0.5 | 5.4 - 13.0 | 6.74 | 0.4 |
| Brown bullhead | 23 | 0.4 | 4.7 - 11.1 | 7.58 | 0.5 |
| Hybrid sunfish | 23 | 0.4 | 3.3 - 7.2 | 1.90 | 0.1 |
| Black bullhead | 14 | 0.3 | 5.6 - 11.6 | 7.55 | 0.5 |
| White catfish | 13 | 0.2 | 6.3 - 10.1 | 2.52 | 0.2 |
| Warmouth | 10 | 0.2 | 3.0 - 7.0 | 1.16 | 0.1 |
| White bass | 9 | 0.2 | 4.6 - 13.9 | 4.17 | 0.3 |
| Quillback | 9 | 0.2 | 8.8 - 22.1 | 24.54 | 1.6 |
| Golden shiner | 8 | 0.2 | 4.2 - 7.7 | 0.56 | < 0.1 |
| Spotfin shiner | 6 | 0.1 | 2.0 - 2.7 | 0.06 | < 0.1 |
| Logperch | 4 | 0.1 | 4.0 - 4.3 | 0.04 | < 0.1 |
| Flathead catfish | 3 | 0.1 | 10.8 - 21.6 | 5.92 | 0.4 |
| Brook silverside | 2 | < 0.1 | 3.6 - 3.7 | 0.44 | < 0.1 |
| White sucker | 1 | < 0.1 | 10.3 | 0.02 | < 0.1 |
| | | | | | |
| | | | | | |
| TOTAL | 5,277 | | | 1,560.06 | |

*Common names of fishes recognized by the American Fisheries Society.

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF GIZZARD SHAD | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | | | | |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | | | | | 20.0 | | | | |
| 2.5 | | | | | 20.5 | | | | |
| 3.0 | | | | | 21.0 | | | | |
| 3.5 | | | | | 21.5 | | | | |
| 4.0 | 2 | 0.1 | 0.03 | not aged | 22.0 | | | | |
| 4.5 | 17 | 1.1 | 0.03 | not aged | 22.5 | | | | |
| 5.0 | 8 | 0.5 | 0.04 | not aged | 23.0 | | | | |
| 5.5 | | | | | 23.5 | | | | |
| 6.0 | | | | | 24.0 | | | | |
| 6.5 | 5 | 0.3 | 0.09 | 1 | 24.5 | | | | |
| 7.0 | 101 | 6.6 | 0.11 | 2,3 | 25.0 | | | | |
| 7.5 | 489 | 32.2 | 0.14 | 2,3 | 25.5 | | | | |
| 8.0 | 337 | 22.2 | 0.17 | 3 | 26.0 | | | | |
| 8.5 | 282 | 18.6 | 0.21 | 3,4 | TOTAL | 1,519 | | | |
| 9.0 | 168 | 11.1 | 0.24 | 3 | | | | | |
| 9.5 | 63 | 4.1 | 0.29 | not aged | | | | | |
| 10.0 | 15 | 1.0 | 0.34 | not aged | | | | | |
| 10.5 | 12 | 0.8 | 0.39 | not aged | | | | | |
| 11.0 | 9 | 0.6 | 0.45 | not aged | | | | | |
| 11.5 | 7 | 0.5 | 0.52 | not aged | | | | | |
| 12.0 | 2 | 0.1 | 0.58 | not aged | | | | | |
| 12.5 | | | | | | | | | |
| 13.0 | | | | | | | | | |
| 13.5 | 2 | 0.1 | 0.91 | not aged | | | | | |
| 14.0 | | | | | | | | | |
| 14.5 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | | | | | | | | | |
| 16.5 | | | | | | | | | |
| 17.0 | | | | | | | | | |
| 17.5 | | | | | | | | | |
| 18.0 | | | | | | | | | |
| 18.5 | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 233.5 / h | GILL NET CATCH | 67.9 / lift | TRAP NET CATCH | 4.1 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF WHITE CRAPPIE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | | | | |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | | | | | 20.0 | | | | |
| 2.5 | | | | | 20.5 | | | | |
| 3.0 | | | | | 21.0 | | | | |
| 3.5 | | | | | 21.5 | | | | |
| 4.0 | 1 | 0.1 | 0.03 | not aged | 22.0 | | | | |
| 4.5 | 34 | 2.7 | 0.04 | 1 | 22.5 | | | | |
| 5.0 | 25 | 1.9 | 0.05 | 1,2 | 23.0 | | | | |
| 5.5 | 1 | 0.1 | 0.07 | 2 | 23.5 | | | | |
| 6.0 | 20 | 1.6 | 0.10 | 2 | 24.0 | | | | |
| 6.5 | 162 | 12.6 | 0.12 | 2 | 24.5 | | | | |
| 7.0 | 445 | 34.7 | 0.16 | 2 | 25.0 | | | | |
| 7.5 | 188 | 14.6 | 0.19 | 2,3 | 25.5 | | | | |
| 8.0 | 51 | 4.0 | 0.22 | 2 | 26.0 | | | | |
| 8.5 | 29 | 2.3 | 0.27 | 2,3 | TOTAL | 1,283 | | | |
| 9.0 | 66 | 5.1 | 0.33 | 2,3 | | | | | |
| 9.5 | 81 | 6.3 | 0.38 | 2,3 | | | | | |
| 10.0 | 73 | 5.7 | 0.45 | 3,4 | | | | | |
| 10.5 | 30 | 2.3 | 0.53 | 3,4 | | | | | |
| 11.0 | 27 | 2.1 | 0.61 | 3,4 | | | | | |
| 11.5 | 20 | 1.6 | 0.72 | 3,4,5 | | | | | |
| 12.0 | 13 | 1.0 | 0.84 | 4,5 | | | | | |
| 12.5 | 10 | 0.8 | 0.98 | 4,5 | | | | | |
| 13.0 | 4 | 0.3 | 1.11 | 4,5 | | | | | |
| 13.5 | 2 | 0.2 | 1.27 | 5 | | | | | |
| 14.0 | 1 | 0.1 | 1.51 | 6 | | | | | |
| 14.5 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | | | | | | | | | |
| 16.5 | | | | | | | | | |
| 17.0 | | | | | | | | | |
| 17.5 | | | | | | | | | |
| 18.0 | | | | | | | | | |
| 18.5 | | | | | | | | | |

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|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 35.5 / h | GILL NET CATCH | 13.1 / lift | TRAP NET CATCH | 127.0 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF BLUEGILL | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | | | | |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | 10 | 1.0 | 0.01 | 1 | 20.0 | | | | |
| 2.5 | 16 | 1.6 | 0.01 | 1 | 20.5 | | | | |
| 3.0 | 23 | 2.3 | 0.02 | 1,2 | 21.0 | | | | |
| 3.5 | 35 | 3.5 | 0.03 | 2 | 21.5 | | | | |
| 4.0 | 154 | 15.4 | 0.04 | 2,3 | 22.0 | | | | |
| 4.5 | 138 | 13.8 | 0.06 | 2 | 22.5 | | | | |
| 5.0 | 158 | 15.8 | 0.08 | 3 | 23.0 | | | | |
| 5.5 | 206 | 20.6 | 0.11 | 3,4 | 23.5 | | | | |
| 6.0 | 149 | 14.9 | 0.15 | 3,4 | 24.0 | | | | |
| 6.5 | 87 | 8.7 | 0.20 | 4,5 | 24.5 | | | | |
| 7.0 | 19 | 1.9 | 0.25 | 4,5,6 | 25.0 | | | | |
| 7.5 | 6 | 0.6 | 0.31 | 5,6 | 25.5 | | | | |
| 8.0 | | | | | 26.0 | | | | |
| 8.5 | | | | | TOTAL | 1,001 | | | |
| 9.0 | | | | | | | | | |
| 9.5 | | | | | | | | | |
| 10.0 | | | | | | | | | |
| 10.5 | | | | | | | | | |
| 11.0 | | | | | | | | | |
| 11.5 | | | | | | | | | |
| 12.0 | | | | | | | | | |
| 12.5 | | | | | | | | | |
| 13.0 | | | | | | | | | |
| 13.5 | | | | | | | | | |
| 14.0 | | | | | | | | | |
| 14.5 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | | | | | | | | | |
| 16.5 | | | | | | | | | |
| 17.0 | | | | | | | | | |
| 17.5 | | | | | | | | | |
| 18.0 | | | | | | | | | |
| 18.5 | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 365.0 / h | GILL NET CATCH | 0.4 / lift | TRAP NET CATCH | 33.1 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF CHANNEL CATFISH | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | 7 | 2.6 | 2.46 | |
| 1.5 | | | | | 19.5 | 5 | 1.8 | 2.69 | |
| 2.0 | | | | | 20.0 | 5 | 1.8 | 2.95 | |
| 2.5 | | | | | 20.5 | 4 | 1.5 | 3.09 | |
| 3.0 | | | | | 21.0 | 3 | 1.1 | 3.43 | |
| 3.5 | | | | | 21.5 | 4 | 1.5 | 3.73 | |
| 4.0 | | | | | 22.0 | 3 | 1.1 | 3.98 | |
| 4.5 | | | | | 22.5 | 3 | 1.1 | 4.53 | |
| 5.0 | | | | | 23.0 | 1 | 0.4 | 4.74 | |
| 5.5 | | | | | 23.5 | 2 | 0.7 | 5.23 | |
| 6.0 | 1 | 0.4 | 0.06 | not aged | 24.0 | | | | |
| 6.5 | 1 | 0.4 | 0.08 | | 24.5 | 3 | 1.1 | 5.88 | |
| 7.0 | | | | | 25.0 | | | | |
| 7.5 | | | | | 25.5 | | | | |
| 8.0 | 3 | 1.1 | 0.15 | | 26.0 | | | | |
| 8.5 | 12 | 4.4 | 0.17 | | 26.5 | 1 | 0.4 | 7.83 | |
| 9.0 | 33 | 12.2 | 0.20 | | 27.0 | | | | |
| 9.5 | 21 | 7.7 | 0.23 | | 27.5 | | | | |
| 10.0 | 23 | 8.5 | 0.28 | | 28.0 | | | | |
| 10.5 | 17 | 6.3 | 0.33 | | 28.5 | 1 | 0.4 | 10.91 | |
| 11.0 | 9 | 3.3 | 0.38 | | 29.0 | | | | |
| 11.5 | 9 | 3.3 | 0.43 | | TOTAL | 271 | | | |
| 12.0 | 9 | 3.3 | 0.49 | | | | | | |
| 12.5 | 14 | 5.2 | 0.56 | | | | | | |
| 13.0 | 12 | 4.4 | 0.67 | | | | | | |
| 13.5 | 9 | 3.3 | 0.73 | | | | | | |
| 14.0 | 12 | 4.4 | 0.83 | | | | | | |
| 14.5 | 8 | 3.0 | 0.94 | | | | | | |
| 15.0 | 3 | 1.1 | 1.03 | | | | | | |
| 15.5 | 10 | 3.7 | 1.17 | | | | | | |
| 16.0 | 3 | 1.1 | 1.33 | | | | | | |
| 16.5 | 2 | 0.7 | 1.51 | | | | | | |
| 17.0 | 6 | 2.2 | 1.66 | | | | | | |
| 17.5 | 7 | 2.6 | 1.81 | | | | | | |
| 18.0 | 2 | 0.7 | 2.02 | | | | | | |
| 18.5 | 3 | 1.1 | 2.20 | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 9.5 / h | GILL NET CATCH | 16.1 / lift | TRAP NET CATCH | 1.4 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF LARGEMOUTH BASS (May standard survey) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | 3 | 2.0 | 3.82 | |
| 1.5 | | | | | 19.5 | 1 | 0.7 | 4.19 | |
| 2.0 | | | | | 20.0 | | | | |
| 2.5 | 1 | 0.7 | 0.01 | not aged | 20.5 | | | | |
| 3.0 | 3 | 2.0 | 0.01 | | 21.0 | 1 | 0.7 | 5.23 | |
| 3.5 | 2 | 1.4 | 0.02 | | 21.5 | | | | |
| 4.0 | 4 | 2.7 | 0.03 | | 22.0 | | | | |
| 4.5 | 3 | 2.0 | 0.04 | | 22.5 | | | | |
| 5.0 | 1 | 0.7 | 0.05 | | 23.0 | | | | |
| 5.5 | 1 | 0.7 | 0.07 | | 23.5 | | | | |
| 6.0 | 1 | 0.7 | 0.09 | | 24.0 | | | | |
| 6.5 | | | | | 24.5 | | | | |
| 7.0 | | | | | 25.0 | | | | |
| 7.5 | 1 | 0.7 | 0.19 | | 25.5 | | | | |
| 8.0 | 1 | 0.7 | 0.23 | | 26.0 | | | | |
| 8.5 | 1 | 0.7 | 0.28 | | TOTAL | 147 | | | |
| 9.0 | 3 | 2.0 | 0.33 | | | | | | |
| 9.5 | 5 | 3.4 | 0.40 | | | | | | |
| 10.0 | 2 | 1.4 | 0.46 | | | | | | |
| 10.5 | 4 | 2.7 | 0.54 | | | | | | |
| 11.0 | 2 | 1.4 | 0.63 | | | | | | |
| 11.5 | 5 | 3.4 | 0.72 | | | | | | |
| 12.0 | 11 | 7.5 | 0.82 | | | | | | |
| 12.5 | 10 | 6.8 | 0.95 | | | | | | |
| 13.0 | 17 | 11.6 | 1.08 | | | | | | |
| 13.5 | 8 | 5.4 | 1.20 | | | | | | |
| 14.0 | 6 | 4.1 | 1.38 | | | | | | |
| 14.5 | 11 | 7.5 | 1.56 | | | | | | |
| 15.0 | 11 | 7.5 | 1.74 | | | | | | |
| 15.5 | 6 | 4.1 | 1.92 | | | | | | |
| 16.0 | 8 | 5.4 | 2.15 | | | | | | |
| 16.5 | 3 | 2.0 | 2.36 | | | | | | |
| 17.0 | 1 | 0.7 | 2.62 | | | | | | |
| 17.5 | 2 | 1.4 | 2.84 | | | | | | |
| 18.0 | 3 | 2.0 | 3.18 | | | | | | |
| 18.5 | 5 | 3.4 | 3.54 | | | | | | |

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|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 72.5 / h | GILL NET CATCH | 0.1 / lift | TRAP NET CATCH | 0.0 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF COMMON CARP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | 6 | 7.8 | 3.17 | |
| 1.5 | | | | | 19.5 | 4 | 5.2 | 3.39 | |
| 2.0 | | | | | 20.0 | 7 | 9.1 | 3.72 | |
| 2.5 | | | | | 20.5 | 6 | 7.8 | 3.97 | |
| 3.0 | | | | | 21.0 | 3 | 3.9 | 4.23 | |
| 3.5 | | | | | 21.5 | 3 | 3.9 | 4.62 | |
| 4.0 | | | | | 22.0 | 4 | 5.2 | 4.95 | |
| 4.5 | | | | | 22.5 | 3 | 3.9 | 5.36 | |
| 5.0 | | | | | 23.0 | | | | |
| 5.5 | | | | | 23.5 | | | | |
| 6.0 | | | | | 24.0 | | | | |
| 6.5 | 1 | 1.3 | 0.15 | not aged | 24.5 | | | | |
| 7.0 | 1 | 1.3 | 0.19 | | 25.0 | 2 | 2.6 | 7.15 | |
| 7.5 | 1 | 1.3 | 0.22 | | 25.5 | 1 | 1.3 | 8.11 | |
| 8.0 | 3 | 3.9 | 0.27 | | 26.0 | | | | |
| 8.5 | 3 | 3.9 | 0.31 | | TOTAL | 77 | | | |
| 9.0 | 2 | 2.6 | 0.36 | | | | | | |
| 9.5 | | | | | | | | | |
| 10.0 | 4 | 5.2 | 0.49 | | | | | | |
| 10.5 | 2 | 2.6 | 0.57 | | | | | | |
| 11.0 | | | | | | | | | |
| 11.5 | 1 | 1.3 | 0.75 | | | | | | |
| 12.0 | | | | | | | | | |
| 12.5 | | | | | | | | | |
| 13.0 | | | | | | | | | |
| 13.5 | | | | | | | | | |
| 14.0 | | | | | | | | | |
| 14.5 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | 3 | 3.9 | 1.89 | | | | | | |
| 16.5 | 2 | 2.6 | 2.05 | | | | | | |
| 17.0 | 4 | 5.2 | 2.24 | | | | | | |
| 17.5 | 4 | 5.2 | 2.48 | | | | | | |
| 18.0 | 5 | 6.5 | 2.68 | | | | | | |
| 18.5 | 2 | 2.6 | 2.90 | | | | | | |

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|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 23.0 / h | GILL NET CATCH | 1.6 / lift | TRAP NET CATCH | 0.9 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF BLACK CRAPPIE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | | | | |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | | | | | 20.0 | | | | |
| 2.5 | | | | | 20.5 | | | | |
| 3.0 | | | | | 21.0 | | | | |
| 3.5 | | | | | 21.5 | | | | |
| 4.0 | 1 | 3.0 | 0.03 | 1 | 22.0 | | | | |
| 4.5 | 2 | 5.9 | 0.04 | 1 | 22.5 | | | | |
| 5.0 | 3 | 8.8 | 0.06 | 1 | 23.0 | | | | |
| 5.5 | | | | | 23.5 | | | | |
| 6.0 | 5 | 14.7 | 0.11 | 2 | 24.0 | | | | |
| 6.5 | 8 | 23.5 | 0.14 | 2 | 24.5 | | | | |
| 7.0 | 4 | 11.8 | 0.18 | 2 | 25.0 | | | | |
| 7.5 | 5 | 14.7 | 0.22 | 2,3 | 25.5 | | | | |
| 8.0 | 4 | 11.8 | 0.26 | 3,4 | 26.0 | | | | |
| 8.5 | 1 | 3.0 | 0.32 | 3 | TOTAL | 34 | | | |
| 9.0 | 1 | 3.0 | 0.38 | 5 | | | | | |
| 9.5 | | | | | | | | | |
| 10.0 | | | | | | | | | |
| 10.5 | | | | | | | | | |
| 11.0 | | | | | | | | | |
| 11.5 | | | | | | | | | |
| 12.0 | | | | | | | | | |
| 12.5 | | | | | | | | | |
| 13.0 | | | | | | | | | |
| 13.5 | | | | | | | | | |
| 14.0 | | | | | | | | | |
| 14.5 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | | | | | | | | | |
| 16.5 | | | | | | | | | |
| 17.0 | | | | | | | | | |
| 17.5 | | | | | | | | | |
| 18.0 | | | | | | | | | |
| 18.5 | | | | | | | | | |

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|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 4.0 / h | GILL NET CATCH | 0.5 / lift | TRAP NET CATCH | 2.4 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF WALLEYE (May standard survey) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | | | | |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | | | | | 20.0 | | | | |
| 2.5 | | | | | 20.5 | | | | |
| 3.0 | | | | | 21.0 | | | | |
| 3.5 | | | | | 21.5 | | | | |
| 4.0 | | | | | 22.0 | | | | |
| 4.5 | | | | | 22.5 | | | | |
| 5.0 | 1 | 4.2 | 0.04 | 1 | 23.0 | | | | |
| 5.5 | | | | | 23.5 | | | | |
| 6.0 | 2 | 8.3 | 0.06 | 1 | 24.0 | | | | |
| 6.5 | 4 | 16.7 | 0.08 | 1 | 24.5 | | | | |
| 7.0 | 2 | 8.3 | 0.10 | 1 | 25.0 | | | | |
| 7.5 | 1 | 4.2 | 0.13 | 1 | 25.5 | | | | |
| 8.0 | 1 | 4.2 | 0.15 | 1 | 26.0 | | | | |
| 8.5 | 1 | 4.2 | 0.18 | 1 | TOTAL | 24 | | | |
| 9.0 | | | | | | | | | |
| 9.5 | 1 | 4.2 | 0.27 | 1 | | | | | |
| 10.0 | 1 | 4.2 | 0.31 | 1 | | | | | |
| 10.5 | 2 | 8.3 | 0.36 | 1 | | | | | |
| 11.0 | 3 | 12.5 | 0.42 | 1 | | | | | |
| 11.5 | | | | | | | | | |
| 12.0 | 2 | 8.3 | 0.54 | 1 | | | | | |
| 12.5 | 2 | 8.3 | 0.62 | 1,2 | | | | | |
| 13.0 | 1 | 4.2 | 0.72 | 2 | | | | | |
| 13.5 | | | | | | | | | |
| 14.0 | | | | | | | | | |
| 14.5 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | | | | | | | | | |
| 16.5 | | | | | | | | | |
| 17.0 | | | | | | | | | |
| 17.5 | | | | | | | | | |
| 18.0 | | | | | | | | | |
| 18.5 | | | | | | | | | |

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|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 8.5 / h | GILL NET CATCH | 0.5 / lift | TRAP NET CATCH | 0.0 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF WHITE BASS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | | | | |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | | | | | 20.0 | | | | |
| 2.5 | | | | | 20.5 | | | | |
| 3.0 | | | | | 21.0 | | | | |
| 3.5 | | | | | 21.5 | | | | |
| 4.0 | | | | | 22.0 | | | | |
| 4.5 | 3 | 33.3 | 0.05 | 1 | 22.5 | | | | |
| 5.0 | 1 | 11.1 | 0.05 | 1 | 23.0 | | | | |
| 5.5 | | | | | 23.5 | | | | |
| 6.0 | | | | | 24.0 | | | | |
| 6.5 | | | | | 24.5 | | | | |
| 7.0 | | | | | 25.0 | | | | |
| 7.5 | | | | | 25.5 | | | | |
| 8.0 | | | | | 26.0 | | | | |
| 8.5 | | | | | TOTAL | 9 | | | |
| 9.0 | | | | | | | | | |
| 9.5 | | | | | | | | | |
| 10.0 | 1 | 11.1 | 0.42 | 2 | | | | | |
| 10.5 | 1 | 11.1 | 0.49 | 2 | | | | | |
| 11.0 | | | | | | | | | |
| 11.5 | | | | | | | | | |
| 12.0 | | | | | | | | | |
| 12.5 | 1 | 11.1 | 0.86 | not aged | | | | | |
| 13.0 | | | | | | | | | |
| 13.5 | 2 | 22.2 | 1.10 | 4 | | | | | |
| 14.0 | | | | | | | | | |
| 14.5 | | | | | | | | | |
| 15.0 | | | | | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | | | | | | | | | |
| 16.5 | | | | | | | | | |
| 17.0 | | | | | | | | | |
| 17.5 | | | | | | | | | |
| 18.0 | | | | | | | | | |
| 18.5 | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 2.5 / h | GILL NET CATCH | 0.1 / lift | TRAP NET CATCH | 0.3 / lift |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF LARGEMOUTH BASS (spring sampling) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | 6 | 1.9 | 3.82 | not aged |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | | | | | 20.0 | 3 | 1.0 | 4.57 | not aged |
| 2.5 | 1 | 0.3 | 0.01 | 1 | 20.5 | | | | |
| 3.0 | 2 | 0.6 | 0.01 | 1 | 21.0 | | | | |
| 3.5 | 1 | 0.3 | 0.02 | 1 | 21.5 | 1 | 0.3 | 5.62 | not aged |
| 4.0 | 4 | 1.3 | 0.03 | 1 | 22.0 | | | | |
| 4.5 | 1 | 0.3 | 0.04 | 1 | 22.5 | | | | |
| 5.0 | 2 | 0.6 | 0.05 | 1 | 23.0 | | | | |
| 5.5 | | | | | 23.5 | | | | |
| 6.0 | | | | | 24.0 | | | | |
| 6.5 | 2 | 0.6 | 0.12 | 1,2 | 24.5 | | | | |
| 7.0 | 4 | 1.3 | 0.15 | 1,2 | 25.0 | | | | |
| 7.5 | 1 | 0.3 | 0.19 | 2 | 25.5 | | | | |
| 8.0 | 1 | 0.3 | 0.23 | 1 | 26.0 | | | | |
| 8.5 | 11 | 3.5 | 0.28 | 2 | TOTAL | 313 | | | |
| 9.0 | 11 | 3.5 | 0.33 | 2 | | | | | |
| 9.5 | 18 | 5.8 | 0.40 | 2,3 | | | | | |
| 10.0 | 8 | 2.6 | 0.46 | 2,3 | | | | | |
| 10.5 | 5 | 1.6 | 0.54 | 2,3 | | | | | |
| 11.0 | 9 | 2.9 | 0.63 | 2,3 | | | | | |
| 11.5 | 15 | 4.8 | 0.72 | 3 | | | | | |
| 12.0 | 19 | 6.1 | 0.82 | 3 | | | | | |
| 12.5 | 28 | 8.9 | 0.95 | 3,4 | | | | | |
| 13.0 | 20 | 6.4 | 1.08 | 3,4 | | | | | |
| 13.5 | 22 | 7.0 | 1.20 | 3,4 | | | | | |
| 14.0 | 20 | 6.4 | 1.38 | 3,4,5 | | | | | |
| 14.5 | 13 | 4.2 | 1.56 | 4 | | | | | |
| 15.0 | 16 | 5.1 | 1.74 | 4,5 | | | | | |
| 15.5 | 9 | 2.9 | 1.92 | 4,5 | | | | | |
| 16.0 | 15 | 4.8 | 2.15 | not aged | | | | | |
| 16.5 | 6 | 1.9 | 2.36 | not aged | | | | | |
| 17.0 | 12 | 3.8 | 2.62 | not aged | | | | | |
| 17.5 | 11 | 3.5 | 2.84 | not aged | | | | | |
| 18.0 | 10 | 3.2 | 3.18 | not aged | | | | | |
| 18.5 | 6 | 1.9 | 3.54 | not aged | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 52.2 / h | GILL NET CATCH | NA | TRAP NET CATCH | NA |

| NUMBER, PERCENTAGE, WEIGHT, AND AGE OF WALLEYE (fall evaluation) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH | TOTAL LENGTH (inches) | NUMBER COLLECTED | PERCENT OF FISH COLLECTED | AVERAGE WEIGHT (pounds) | AGE OF FISH |
| 1.0 | | | | | 19.0 | | | | |
| 1.5 | | | | | 19.5 | | | | |
| 2.0 | | | | | 20.0 | | | | |
| 2.5 | | | | | 20.5 | | | | |
| 3.0 | | | | | 21.0 | | | | |
| 3.5 | | | | | 21.5 | | | | |
| 4.0 | | | | | 22.0 | | | | |
| 4.5 | | | | | 22.5 | | | | |
| 5.0 | | | | | 23.0 | | | | |
| 5.5 | | | | | 23.5 | | | | |
| 6.0 | | | | | 24.0 | | | | |
| 6.5 | | | | | 24.5 | | | | |
| 7.0 | | | | | 25.0 | | | | |
| 7.5 | 1 | 1.5 | 0.13 | YOY | 25.5 | | | | |
| 8.0 | 8 | 11.8 | 0.16 | YOY | 26.0 | | | | |
| 8.5 | 18 | 26.5 | 0.19 | YOY | TOTAL | 68 | | | |
| 9.0 | 17 | 25.0 | 0.22 | YOY | | | | | |
| 9.5 | 3 | 4.4 | 0.28 | YOY | | | | | |
| 10.0 | | | | | | | | | |
| 10.5 | 1 | 1.5 | 0.33 | 1 | | | | | |
| 11.0 | 3 | 4.4 | 0.44 | 1 | | | | | |
| 11.5 | 4 | 5.9 | 0.50 | 1 | | | | | |
| 12.0 | 4 | 5.9 | 0.53 | 1 | | | | | |
| 12.5 | 3 | 4.4 | 0.63 | 1 | | | | | |
| 13.0 | 1 | 1.5 | 0.72 | 1 | | | | | |
| 13.5 | 1 | 1.5 | 0.68 | 1 | | | | | |
| 14.0 | | | | | | | | | |
| 14.5 | 1 | 1.5 | 1.07 | 1 | | | | | |
| 15.0 | 2 | 2.9 | 1.05 | 1 | | | | | |
| 15.5 | | | | | | | | | |
| 16.0 | 1 | 1.5 | 1.25 | 1 | | | | | |
| 16.5 | | | | | | | | | |
| 17.0 | | | | | | | | | |
| 17.5 | | | | | | | | | |
| 18.0 | | | | | | | | | |
| 18.5 | | | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| ELECTROFISHING CATCH | 17.0 / h | GILL NET CATCH | NA | TRAP NET CATCH | NA |

## GPS LOCATION OF SAMPLING EQUIPMENT DURING MAY STANDARD SURVEY

| GILL NETS | | | TRAP NETS | | | ELECTROFISHING | | |
|---|---|---|---|---|---|---|---|---|
| 1 | N 39 50.376 | W 86 18.112 | 1 | N 39 50.417 | W 86 18.029 | 1 | N 39 50.513 | W 86 18.097 |
| | N | W | 2 | N 39 49.943 | W 86 18.756 | | N | W |
| 2 | N 39 50.507 | W 86 18.091 | 3 | N 39 50.285 | W 86 18.678 | 2 | N 39 51.181 | W 86 18.287 |
| | N | W | 4 | N 39 50.973 | W 86 18.085 | | N | W |
| 3 | N 39 50.760 | W 86 18.105 | 5 | N 39 50.948 | W 86 18.836 | 3 | N 39 51.932 | W 86 18.223 |
| | N | W | 6 | N 39 51.370 | W 86 18.626 | | N | W |
| 4 | N 39 51.144 | W 86 18.267 | 7 | N 39 51.524 | W 86 18.574 | 4 | N 39 51.370 | W 86 18.626 |
| | N | W | 8 | N 39 51.978 | W 86 18.664 | | N | W |
| 5 | N 39 51.627 | W 86 18.147 | 9 | N | W | 5 | N 39 50.602 | W 86 18.611 |
| | N | W | 10 | N | W | | N | W |
| 6 | N 39 51.816 | W 86 18.377 | 11 | N | W | 6 | N 39 50.767 | W 86 19.188 |
| | N | W | 12 | N | W | | N | W |
| 7 | N Not | W deployed | 13 | N | W | 7 | N 39 49.978 | W 86 18.852 |
| | N | W | 14 | N | W | | N | W |
| 8 | N 39 51.167 | W 86 18.491 | 15 | N | W | 8 | N 39 49.584 | W 86 18.559 |
| | N | W | 16 | N | W | | N | W |
| 9 | N 39 50.922 | W 86 18.646 | 17 | N | W | 9 | N | W |
| | N | W | 18 | N | W | | N | W |
| 10 | N 39 50.599 | W 86 18.559 | 19 | N | W | 10 | N | W |
| | N | W | 20 | N | W | | N | W |
| 11 | N 39 50.142 | W 86 18.535 | | | | 11 | N | W |
| | N | W | | | | | N | W |
| 12 | N 39 49.853 | W 86 18.494 | | | | 12 | N | W |
| | N | W | | | | | N | W |
| 13 | N 39 49.920 | W 86 18.947 | | | | 13 | N | W |
| | N | W | | | | | N | W |
| 14 | N 39 49.781 | W 86 18.615 | | | | 14 | N | W |
| | N | W | | | | | N | W |
| 15 | N 39 49.473 | W 86 18.387 | | | | 15 | N | W |
| | N | W | | | | | N | W |
| 16 | N 39 49.513 | W 86 18.046 | | | | 16 | N | W |
| | N | W | | | | | N | W |
| 17 | N | W | | | | 17 | N | W |
| | N | W | | | | | N | W |
| 18 | N | W | | | | 18 | N | W |
| | N | W | | | | | N | W |
| 19 | N | W | | | | 19 | N | W |
| | N | W | | | | | N | W |
| 20 | N | W | | | | 20 | N | W |
| | N | W | | | | | N | W |

| Largemouth bass Age-length Key (spring bass sampling) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | |
| 2.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 3.0 | 2 | 2 | 2 | | | | | | | | | | | | |
| 3.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 4.0 | 4 | 3 | 4 | | | | | | | | | | | | |
| 4.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 5.0 | 2 | 2 | 1 | | | | | | | | | | | | |
| 5.5 | | | | | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | | | | |
| 6.5 | 2 | 2 | 1 | 1 | | | | | | | | | | | |
| 7.0 | 4 | 4 | 1 | 3 | | | | | | | | | | | |
| 7.5 | 1 | 1 | | 1 | | | | | | | | | | | |
| 8.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 8.5 | 11 | 5 | | 9 | | | | | | | | | | | |
| 9.0 | 11 | 4 | | 6 | | | | | | | | | | | |
| 9.5 | 18 | 5 | | 11 | 7 | | | | | | | | | | |
| 10.0 | 8 | 5 | | 5 | 3 | | | | | | | | | | |
| 10.5 | 5 | 6 | | 1 | 3 | | | | | | | | | | |
| 11.0 | 9 | 5 | | 5 | 2 | | | | | | | | | | |
| 11.5 | 15 | 5 | | | 15 | | | | | | | | | | |
| 12.0 | 19 | 5 | | | 15 | | | | | | | | | | |
| 12.5 | 28 | 5 | | | 17 | 6 | | | | | | | | | |
| 13.0 | 20 | 5 | | | 8 | 8 | | | | | | | | | |
| 13.5 | 22 | 5 | | | 4 | 18 | | | | | | | | | |
| 14.0 | 20 | 5 | | | 4 | 12 | 4 | | | | | | | | |
| 14.5 | 13 | 5 | | | | 10 | | | | | | | | | |
| 15.0 | 16 | 5 | | | | 6 | 6 | | | | | | | | |
| 15.5 | 9 | 4 | | | | 5 | 5 | | | | | | | | |
| 16.0 | 15 | | | | | | | | | | | | | | |
| 16.5 | 6 | | | | | | | | | | | | | | |
| 17.0 | 12 | | | | | | | | | | | | | | |
| 17.5 | 11 | | | | | | | | | | | | | | |
| 18.0 | 10 | | | | | | | | | | | | | | |
| 18.5 | 6 | | | | | | | | | | | | | | |
| 19.0 | 6 | | | | | | | | | | | | | | |
| 19.5 | | | | | | | | | | | | | | | |
| 20.0 | 3 | | | | | | | | | | | | | | |
| 20.5 | | | | | | | | | | | | | | | |
| 21.0 | | | | | | | | | | | | | | | |
| 21.5 | 1 | | | | | | | | | | | | | | |
| 22.0 | | | | | | | | | | | | | | | |
| Total | 313 | 92 | 13 | 41 | 79 | 65 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Gizzard shad Age-length Key | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | |
| 4.0 | 2 | 0 | | | | | | | | | | | | | |
| 4.5 | 17 | 0 | | | | | | | | | | | | | |
| 5.0 | 8 | 0 | | | | | | | | | | | | | |
| 5.5 | | | | | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | | | | |
| 6.5 | 5 | 2 | 5 | | | | | | | | | | | | |
| 7.0 | 101 | 4 | | 76 | 25 | | | | | | | | | | |
| 7.5 | 489 | 3 | | 326 | 163 | | | | | | | | | | |
| 8.0 | 337 | 6 | | | 337 | | | | | | | | | | |
| 8.5 | 282 | 5 | | | 169 | 113 | | | | | | | | | |
| 9.0 | 168 | 6 | | | 168 | | | | | | | | | | |
| 9.5 | 63 | 0 | | | | | | | | | | | | | |
| 10.0 | 15 | 0 | | | | | | | | | | | | | |
| 10.5 | 12 | 0 | | | | | | | | | | | | | |
| 11.0 | 9 | 0 | | | | | | | | | | | | | |
| 11.5 | 7 | 0 | | | | | | | | | | | | | |
| 12.0 | 2 | 0 | | | | | | | | | | | | | |
| 12.5 | | | | | | | | | | | | | | | |
| 13.0 | | | | | | | | | | | | | | | |
| 13.5 | 2 | 0 | | | | | | | | | | | | | |
| 14.0 | | | | | | | | | | | | | | | |
| Total | 1519 | 26 | 5 | 402 | 862 | 113 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| White crappie Age-length Key | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | |
| 4.0 | 1 | | | | | | | | | | | | | | |
| 4.5 | 34 | 6 | 34 | | | | | | | | | | | | |
| 5.0 | 25 | 4 | 19 | 6 | | | | | | | | | | | |
| 5.5 | 1 | 1 | | 1 | | | | | | | | | | | |
| 6.0 | 20 | 4 | | 20 | | | | | | | | | | | |
| 6.5 | 162 | 4 | | 162 | | | | | | | | | | | |
| 7.0 | 445 | 7 | | 445 | | | | | | | | | | | |
| 7.5 | 188 | 6 | | 157 | 31 | | | | | | | | | | |
| 8.0 | 51 | 5 | | 51 | | | | | | | | | | | |
| 8.5 | 29 | 5 | | 6 | 23 | | | | | | | | | | |
| 9.0 | 66 | 5 | | 13 | 53 | | | | | | | | | | |
| 9.5 | 81 | 5 | | 16 | 65 | | | | | | | | | | |
| 10.0 | 73 | 6 | | | 49 | 24 | | | | | | | | | |
| 10.5 | 30 | 5 | | | 24 | 6 | | | | | | | | | |
| 11.0 | 27 | 8 | | | 14 | 14 | | | | | | | | | |
| 11.5 | 20 | 5 | | | 4 | 4 | 12 | | | | | | | | |
| 12.0 | 13 | 5 | | | | 3 | 10 | | | | | | | | |
| 12.5 | 10 | 5 | | | | 4 | 6 | | | | | | | | |
| 13.0 | 4 | 3 | | | | 1 | 3 | | | | | | | | |
| 13.5 | 2 | 2 | | | | | 2 | | | | | | | | |
| 14.0 | 1 | 1 | | | | | | 1 | | | | | | | |
| 14.5 | | | | | | | | | | | | | | | |
| Total | 1283 | 92 | 53 | 877 | 263 | 56 | 33 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Bluegill Age-length Key | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | 10 | 5 | 10 | | | | | | | | | | | | |
| 2.5 | 16 | 5 | 16 | | | | | | | | | | | | |
| 3.0 | 23 | 5 | 18 | 5 | | | | | | | | | | | |
| 3.5 | 35 | 5 | | 35 | | | | | | | | | | | |
| 4.0 | 154 | 5 | | 123 | 31 | | | | | | | | | | |
| 4.5 | 138 | 5 | | 138 | | | | | | | | | | | |
| 5.0 | 158 | 5 | | | 158 | | | | | | | | | | |
| 5.5 | 206 | 6 | | | 172 | 34 | | | | | | | | | |
| 6.0 | 149 | 5 | | | 89 | 60 | | | | | | | | | |
| 6.5 | 87 | 5 | | | | 70 | 17 | | | | | | | | |
| 7.0 | 19 | 5 | | | | 4 | 11 | 4 | | | | | | | |
| 7.5 | 6 | 4 | | | | | 3 | 3 | | | | | | | |
| 8.0 | | | | | | | | | | | | | | | |
| Total | 1001 | 60 | 44 | 301 | 450 | 168 | 31 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Black crappie Age-length Key | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | |
| 4.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 4.5 | 2 | 2 | 2 | | | | | | | | | | | | |
| 5.0 | 3 | 3 | 3 | | | | | | | | | | | | |
| 5.5 | | | | | | | | | | | | | | | |
| 6.0 | 5 | 5 | | 5 | | | | | | | | | | | |
| 6.5 | 8 | 6 | | 8 | | | | | | | | | | | |
| 7.0 | 4 | 4 | | 4 | | | | | | | | | | | |
| 7.5 | 5 | 5 | | 1 | 4 | | | | | | | | | | |
| 8.0 | 4 | 4 | | | 1 | 3 | | | | | | | | | |
| 8.5 | 1 | 1 | | | 1 | | | | | | | | | | |
| 9.0 | 1 | 1 | | | | | 1 | | | | | | | | |
| 9.5 | | | | | | | | | | | | | | | |
| Total | 34 | 32 | 6 | 18 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Walleye Age-length Key (May standard survey) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | | | | | |
| 4.5 | | | | | | | | | | | | | | | |
| 5.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 5.5 | | | | | | | | | | | | | | | |
| 6.0 | 2 | 2 | 2 | | | | | | | | | | | | |
| 6.5 | 4 | 3 | 4 | | | | | | | | | | | | |
| 7.0 | 2 | 2 | 2 | | | | | | | | | | | | |
| 7.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 8.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 8.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 9.0 | | | | | | | | | | | | | | | |
| 9.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 10.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 10.5 | 2 | 1 | 2 | | | | | | | | | | | | |
| 11.0 | 3 | 3 | 3 | | | | | | | | | | | | |
| 11.5 | | | | | | | | | | | | | | | |
| 12.0 | 2 | 2 | 2 | | | | | | | | | | | | |
| 12.5 | 2 | 2 | 1 | 1 | | | | | | | | | | | |
| 13.0 | 1 | 1 | | 1 | | | | | | | | | | | |
| 13.5 | | | | | | | | | | | | | | | |
| Total | 24 | 22 | 22 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| White bass Age-length Key | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | | | | | |
| 4.5 | 3 | 3 | 3 | | | | | | | | | | | | |
| 5.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 5.5 | | | | | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | | | | |
| 6.5 | | | | | | | | | | | | | | | |
| 7.0 | | | | | | | | | | | | | | | |
| 7.5 | | | | | | | | | | | | | | | |
| 8.0 | | | | | | | | | | | | | | | |
| 8.5 | | | | | | | | | | | | | | | |
| 9.0 | | | | | | | | | | | | | | | |
| 9.5 | | | | | | | | | | | | | | | |
| 10.0 | 1 | 1 | | 1 | | | | | | | | | | | |
| 10.5 | 1 | 1 | | 1 | | | | | | | | | | | |
| 11.0 | | | | | | | | | | | | | | | |
| 11.5 | | | | | | | | | | | | | | | |
| 12.0 | | | | | | | | | | | | | | | |
| 12.5 | 1 | 0 | | | | | | | | | | | | | |
| 13.0 | | | | | | | | | | | | | | | |
| 13.5 | 2 | 2 | | | | 2 | | | | | | | | | |
| 14.0 | | | | | | | | | | | | | | | |
| Total | 9 | 8 | 4 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Walleye Age-length Key (fall evaluation) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Length | Total # | Sub- | Age | | | | | | | | | | | | |
| group (in) | number | sample | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1.0 | | | | | | | | | | | | | | | |
| 1.5 | | | | | | | | | | | | | | | |
| 2.0 | | | | | | | | | | | | | | | |
| 2.5 | | | | | | | | | | | | | | | |
| 3.0 | | | | | | | | | | | | | | | |
| 3.5 | | | | | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | | | | | |
| 4.5 | | | | | | | | | | | | | | | |
| 5.0 | | | | | | | | | | | | | | | |
| 5.5 | | | | | | | | | | | | | | | |
| 6.0 | | | | | | | | | | | | | | | |
| 6.5 | | | | | | | | | | | | | | | |
| 7.0 | | | | | | | | | | | | | | | |
| 7.5 | 1 | 0 | | | | | | | | | | | | | |
| 8.0 | 8 | 0 | | | | | | | | | | | | | |
| 8.5 | 18 | 0 | | | | | | | | | | | | | |
| 9.0 | 17 | 0 | | | | | | | | | | | | | |
| 9.5 | 3 | 0 | | | | | | | | | | | | | |
| 10.0 | | | | | | | | | | | | | | | |
| 10.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 11.0 | 3 | 3 | 3 | | | | | | | | | | | | |
| 11.5 | 4 | 4 | 4 | | | | | | | | | | | | |
| 12.0 | 4 | 4 | 4 | | | | | | | | | | | | |
| 12.5 | 3 | 3 | 3 | | | | | | | | | | | | |
| 13.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 13.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 14.0 | | | | | | | | | | | | | | | |
| 14.5 | 1 | 1 | 1 | | | | | | | | | | | | |
| 15.0 | 2 | 2 | 2 | | | | | | | | | | | | |
| 15.5 | | | | | | | | | | | | | | | |
| 16.0 | 1 | 1 | 1 | | | | | | | | | | | | |
| 16.5 | | | | | | | | | | | | | | | |
| Total | 68 | 21 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

## Mean Length at Capture

**Gizzard shad**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 5 | 6.8 | 0.00 | 0.00 | 6.8 | 6.8 |
| 2 | 402 | 7.7 | 0.04 | 0.01 | 7.6 | 7.7 |
| 3 | 862 | 8.4 | 0.29 | 0.02 | 8.4 | 8.5 |
| 4 | 113 | 8.8 | 0.00 | 0.00 | 8.8 | 8.8 |

**White crappie**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 53 | 4.9 | 0.06 | 0.03 | 4.9 | 5.0 |
| 2 | 877 | 7.4 | 0.38 | 0.02 | 7.3 | 7.4 |
| 3 | 262 | 9.6 | 0.92 | 0.06 | 9.5 | 9.7 |
| 4 | 56 | 11.0 | 0.73 | 0.11 | 10.8 | 11.2 |
| 5 | 33 | 12.3 | 0.36 | 0.10 | 12.1 | 12.5 |
| 6 | 1 | 14.3 | NA | NA | NA | NA |

**Bluegill**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 44 | 2.8 | 0.15 | 0.06 | 2.7 | 3.0 |
| 2 | 301 | 4.4 | 0.14 | 0.02 | 4.4 | 4.4 |
| 3 | 450 | 5.6 | 0.26 | 0.02 | 5.5 | 5.6 |
| 4 | 167 | 6.4 | 0.16 | 0.03 | 6.3 | 6.4 |
| 5 | 32 | 7.0 | 0.11 | 0.06 | 6.9 | 7.1 |
| 6 | 7 | 7.5 | 0.07 | 0.10 | 7.3 | 7.7 |

**Black crappie**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 6 | 4.9 | 0.17 | 0.17 | 4.6 | 5.3 |
| 2 | 18 | 6.8 | 0.19 | 0.10 | 6.6 | 7.0 |
| 3 | 6 | 8.0 | 0.18 | 0.17 | 7.7 | 8.3 |
| 4 | 3 | 8.3 | 0.00 | 0.00 | 8.3 | 8.3 |
| 5 | 1 | 9.3 | NA | NA | NA | NA |

**White bass**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 4 | 4.9 | 0.06 | 0.13 | 4.6 | 5.1 |
| 2 | 2 | 10.5 | 0.13 | 0.25 | 10.0 | 11.0 |
| 3 | 0 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 |
| 4 | 2 | 13.8 | 0.00 | 0.00 | 13.8 | 13.8 |

**Walleye (May standard survey)**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 22 | 8.9 | 5.54 | 0.50 | 7.9 | 9.9 |
| 2 | 2 | 13.0 | 0.13 | 0.25 | 12.5 | 13.5 |

Mean Length at Capture

**Largemouth bass (spring bass sampling)**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 13 | 4.8 | 2.77 | 0.46 | 3.9 | 5.7 |
| 2 | 41 | 9.4 | 1.30 | 0.18 | 9.1 | 9.8 |
| 3 | 79 | 12.2 | 1.39 | 0.13 | 11.9 | 12.4 |
| 4 | 65 | 14.1 | 0.68 | 0.10 | 13.9 | 14.3 |
| 5 | 15 | 15.1 | 0.35 | 0.15 | 14.8 | 15.4 |

**Walleye (fall evaluation)**

| Age | Number | Mean TL | Var | SE | Lo 95%CI | Up 95%CI |
|---|---|---|---|---|---|---|
| 1 | 21 | 12.7 | 2.29 | 0.33 | 12.1 | 13.4 |