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ANNUAL REPORT

1 March 2003 - 29 February 2004

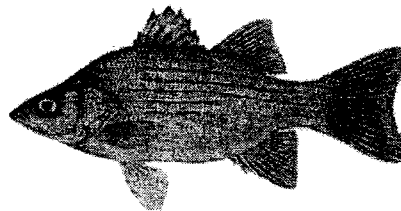
**DATABASE MANAGEMENT AND ANALYSIS OF FISHERIES
IN ILLINOIS**

Jeffrey A. Stein, Robert F. Illyes, Lynnette Miller-Ishmael,
Betty Carroll, Thomasine McNamara, Julie Claussen,
John Epifanio, and David P. Philipp

Submitted to
Division of Fisheries
Illinois Department of Natural Resources
Federal Aid Project F-69-R
Segment 17

May 2004

Aquatic Ecology Technical Report 04/01



ILLINOIS NATURAL HISTORY SURVEY

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F-69-R-17

Annual Report, Segment 17

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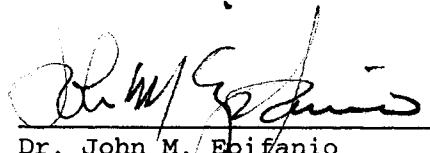
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May 2004



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This technical report is the annual report for Segment 17 of Project F-69-R, Database Management and Analysis of Fisheries in Illinois, which was conducted under a memorandum of understanding between the Illinois Department of Natural Resources and the Board of Trustees of the University of Illinois. The actual work was performed by the Illinois Natural History Survey, a division of the Illinois Department of Natural Resources. The project was supported through Federal Aid in Sport Fish Restoration (Dingell-Johnson) by the U.S. Fish and Wildlife Service, the Illinois Department of Natural Resources Division of Fisheries, and the Illinois Natural History Survey. The form, content, and data interpretation are the responsibility of the University of Illinois and the Illinois Natural History Survey, and not that of the Illinois Department of Natural Resources Division of Fisheries.

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EXECUTIVE SUMMARY

The goal of Project F-69-R is to provide researchers and managers with the information necessary to manage, sustain, and improve the health of fisheries resources in Illinois lakes and streams. As such, there were three primary objectives identified during Segment 17: (1) conduct annual creel surveys on selected lakes; (2) provide programming support for the Fisheries Analysis System (FAS); (3) incorporate FAS databases to aid in the analysis of ongoing research projects and pertinent management questions.

Creel surveys were conducted on 13 lakes in Illinois during Segment 17, bringing the total to 289 total creel surveys on Illinois lakes since 1987. All of these lake creels were funded by Project F-69-R with additional financial support from IDNR Division of Fisheries.

The rivers and streams Fisheries Analysis System (FAS) software and documentation went through several revisions following comments from users and clarifications from the Illinois Environmental Protection Agency regarding the new IBI developed by Roy Smogor. All new FAS software is fully 32-bit and uses the 32-bit Borland Database Engine (BDE). Statewide lakes database construction is now being done by script. All portions of the FAS software and databases developed under F-69-

R and F-120-R continue to be supported and improved as a part of our ongoing commitment to promote the use of FAS as a fisheries policy and research tool.

Evaluation of fish stocking programs in Illinois lakes was identified as an important objective of Project F-69-R. These evaluations are generally lake-specific, and little has been done to evaluate stocking on a statewide level. Analyses regarding effects of stocking largemouth bass are still underway using the creel results for the F-135-R study lakes.

This report serves as an annual project report covering Segment 17 for Project F-69-R (2003). Creel data collected during Segment 17 (Table 1) are significant additions to existing creel data for Illinois Lakes and provide important information to researchers working on related fisheries projects. Analysis of cumulative creel data continues and long-term trends will be analyzed to provide fisheries managers with additional perspective for making management decisions. Additionally, creel data and other statewide fisheries databases are being used to develop important research topics relevant to fisheries management in Illinois.

JOB 101.1 ANGLER SURVEYS

OBJECTIVE

Conduct annual creel surveys on selected lakes and rivers within Illinois. Manage (coordinate and supervise personnel, analyze and report data) the creels conducted on these lakes, as well as the annual creel surveys supported by F-29-D.

PROCEDURES

Creel surveys were conducted on the following lakes and streams during Segment 17: Bloomington, Dolan, Glendale, Hillsboro, Homer, McLeansboro, Mingo, Pierce, Red Hills, Shelbyville Main Lake, Shelbyville Tailwater, Sterling, Walnut Point, and Wood (Appendix B).

Lakes were chosen to be surveyed based upon (1) study lakes related to projects F-128-R *Quality Management of Bluegill* and F-135-R *Factors Influencing Largemouth Bass Recruitment: Implications for the Illinois Management and Stocking Program*, (2) needs identified by IDNR-Fisheries biologists, and (3) the recognized value of long-term data on select lakes.

FINDINGS

Results for effort, harvest and catch are summarized here and in Appendix B.

Angler Effort. Total estimated fishing pressure was highest on Lake Shelbyville Main Lake at 175,360 angler-hours, Pierce Lake at 77,814 angler-hours, and Lake Bloomington at 43,794 angler-hours. The lowest fishing effort among the creeled lakes was estimated in Wood Lake at 3,834 angler-hours.

Lake Shelbyville Tailwater had the highest fishing pressure per area at 4491 angler-hours/acre. Pierce lake had the second highest fishing pressure per area at 530 angler-hours/acre, followed by several lakes in the 100-350 angler-hour range. Although Shelbyville Main Lake had by far the highest angler effort, it had the lowest fishing pressure per area at 17 angler-hours/acre. Lake Bloomington had the second lowest fishing pressure per area at 69 angler-hours/acre but had the third highest fishing pressure overall at 43,974 angler-hours. Angler effort estimates for lakes are summarized in Table B1 in Appendix B.

Harvest. The lowest estimated harvest levels among lakes were seen in Wood Lake (522 fish; 301 pounds) and Washington County Lake (4,216 fish; 1,833 pounds). The highest harvest levels were out of Lake Shelbyville Main Lake (76,555 fish; 57,716 pounds). While Shelbyville Tailwater ranked second to last in number of fish harvested (2096 fish), it ranked fifth in pounds of fish harvested (6,096 pounds) for an average harvested fish of 2.91 pounds. The average size of harvested fish was

influenced by the harvest of large sized bigmouth buffalo (*Ictiobus cyprinellus*) and flathead catfish (*Pylodictis olivaris*). Results for estimated harvest levels for lakes are summarized in Table B2 in Appendix B.

Catch. Bluegill (*Lepomis macrochirus*), largemouth bass (*Micropterus salmoides*), white crappie (*Pomoxis annularis*), black crappie (*P. nigromaculatus*), and channel catfish (*Ictalurus punctatus*) were by far the most frequently caught species on surveyed lakes in 2003. Catch frequency is summarized in Table B3 in Appendix B.

Estimated catch rates (# caught per angler-hour) for the five most frequently caught species were highly variable across lakes (Table B4, Appendix B). Catch rates for largemouth bass were lowest in Shelbyville Tailwater (0.008), Lake Sterling (0.037), Wood Lake (0.043), and Lake Dolan (0.047). The highest catch rates for largemouth bass were seen at Walnut Point (0.358) and Bloomington Lake (0.354). Bluegill catch rates were the highest at Walnut Point, with 0.996 bluegill caught per angler-hour. Lowest catch rates for bluegill were found at Shelbyville Tailwater (0.032). Walnut Point and Bloomington Lake appear to be strong fisheries for both largemouth bass and bluegill, as these lakes had high catch rates for both species. Catch rates for channel catfish were varied among lakes ranging from the lowest in Sterling Lake (0.005), Shelbyville Tailwater

(0.005), and Red Hills Lake (0.015), and highest in Dolan Lake (0.420).

Catch rates for crappie species were quite variable among lakes. Highest estimated catch rates (# caught per angler-hour) of white crappie were found at Homer Lake (0.630), Lake Mingo (0.462), Lake McLeansboro (0.425), and Lake Bloomington (0.423). The lowest catch rates for white crappie were found at Walnut Point (0.001) and Shelbyville Tailwater (0.008). Black crappie catch rates were highest at Sterling Lake (0.219), followed by Red Hills Lake (0.157) and Lake Mingo (0.127). The lowest catch rates for black crappie were found at Lake Bloomington (0.014) and Hillsboro Lake (0.021). Catch rates are summarized in Table B4, Appendix B.

Lake Bloomington. White crappie and black crappie dominated harvest from Lake Bloomington, and were the species most targeted by anglers (43.6%) in 2003. Lake Bloomington also appears to have significant largemouth bass and bluegill populations as demonstrated by their contribution to the total number of fish caught. While anglers appear to be catching largemouth bass and bluegill in significant numbers, but few are being harvested. Site specific regulations for largemouth bass (15" minimum) and bluegill (8" minimum) are a significant factor in limiting largemouth bass and bluegill harvest on Lake Bloomington.

Dolan Lake. Channel catfish dominated harvest from Dolan Lake, and was the species most targeted by anglers (49.8%) in 2003. White crappie were also regularly harvested by anglers in 2003, although few anglers indicated they were targeting any crappie species. Dolan Lake also appears to have significant largemouth bass and bluegill populations as demonstrated by their contribution to the total number of fish caught. Anglers appear to be catching largemouth bass and bluegill in significant numbers, but relatively few are being harvested. Site specific regulations for largemouth bass (14" minimum) and bluegill (8" minimum) are a significant factor in limiting largemouth bass and bluegill harvest on Dolan Lake.

Glendale Lake. Bluegill, black crappie and channel catfish dominated harvest from Glendale Lake, however nearly half of anglers surveyed indicated no preference for species caught. Glendale Lake also appears to have a significant largemouth bass population, accounting for over 26% of the fish caught during 2003, and was by far the most popular fish targeted by anglers (aside from anglers not targeting a specific species). Anglers appear to be catching largemouth bass in significant numbers, but relatively few are being harvested, perhaps due to small size. There is no site specific regulation on Glendale Lake for largemouth bass.

Hillsboro Lake. White crappie made up nearly half of the harvested fish from Hillsboro Lake in 2003, however only three angler parties (of 735 total interviews) surveyed indicated a preference for either crappie species. Channel catfish made up 25% of total harvest and 20% of total catch. Among anglers that indicated a preference for a particular species, channel catfish and largemouth bass were the most targeted species. Anglers do not appear to be catching largemouth bass in significant numbers, and few are being harvested. Hillsboro Lake has a 12"-15" slot limit for largemouth bass that is likely limiting harvest. Bluegill made up 20% of all fish caught and 15% of harvested fish in Hillsboro Lake in 2003.

Homer Lake. A majority of anglers on Homer Lake targeted channel catfish (24%), crappie spp. (20%), and largemouth bass (19%) in 2003. An additional 25% of anglers expressed no preference for any particular gamefish. Harvest was dominated by white crappie (9138 fish, 80% of total harvest), with channel catfish (948 fish, 8% of total harvest), black crappie (498 fish, 4% of total harvest), and bluegill (435 fish, 4% of total harvest) making minor contributions. White crappie accounted for nearly half of the total catch on Homer Lake, with bluegill adding another 32%. The relatively small number of harvested bluegill can be attributed to small average catch size (5.6 inches) and an 8" minimum size limit. Homer Lake also produced

a limited largemouth bass fishery, with minimal harvest and roughly 11% of total catch. The lack of largemouth bass harvest can also be attributed to small average catch size (11.5 inches) and a 14" minimum size limit on the lake.

Lake McLeansboro. A majority of anglers on Lake McLeansboro targeted catfish spp. (34%), crappie spp. (18%), and largemouth bass (15%), with an additional 30% of anglers expressing no preference for a particular gamefish species. Harvest was dominated by white crappie (4943 fish, 61% of total harvest), with channel catfish (1210 fish, 15% of total harvest) and bluegill (1049 fish, 13% of total harvest) also making contributions to harvest. White crappie also dominated total catch (7495 fish, 45% of total catch) with bluegill (4373 fish, 26% of total catch), channel catfish (2362 fish, 14% of total catch), and largemouth bass (914 fish, 5% of total catch) making up a majority of the remaining catch in 2003. The relatively small number of harvested bluegill may be attributed to small average catch size (6.2 inches), although there is no size limit for bluegill on the lake. McLeansboro Lake also produced a limited largemouth bass fishery, with minimal harvest and roughly 5% of total catch. The lack of largemouth bass harvest may be attributed to small average catch size (12 inches) and a 14" minimum size limit on the lake.

Lake Mingo. Nearly half of anglers identified either largemouth bass (27.8%) or channel catfish (22.3%) as their targeted gamefish species, while another 35% of anglers indicated no preference. Largemouth bass made up 19% of total catch but only 1% of total harvest, likely because largemouth bass averaged 10.8 inches and the lake had a 15" minimum size limit. Channel catfish made up only 8% of the total catch and 10% of total harvest. Bluegill dominated total catch (21817 fish, 37% of total catch) and made up 38% of total harvest. White crappie were also a significant part of the total catch (15173 fish, 26% of total catch) and made up 38% of total harvest.

Pierce Lake. In 2003, 22% of anglers targeted crappie spp., 13% targeted largemouth and smallmouth bass, while 42% indicated no preference. Black crappie made up 31% of the total catch and 31% of the harvest, while white crappie made up 9% of the total catch and 19% of total harvest. Black bass (smallmouth and largemouth combined) made up only 10% of total catch and 7% of total harvest. While bluegill made up 22% of total catch 2003, it only accounted for 3% of total harvest, likely due to small average size of catch (5.5 inches) and an 8" minimum size limit on the lake. Walleye accounted for 11% of total catch and 13% of total harvest.

Red Hills Lake. Half of all anglers on Red Hills Lake indicated no preference for a particular gamefish species. Largemouth bass (18%) and bluegill (15%) were the most desired species, followed by crappie (13%). Bluegill and black crappie dominated the catch and harvest in 2003. Bluegill accounted for 55% of total catch, but only 18% of total harvest, while black crappie accounted for only 14% of total catch and 49% of harvest. Largemouth bass accounted for 15% of total catch and only 2% of total harvest.

Sterling Lake. A diversity of anglers visited Sterling Lake in 2003, with over half indicating no preference for a particular species, and no one species accounting for more than 9% of targeted species. The two most abundant species as measured by total catch were bluegill (4531 total fish, 40% of total catch) and black crappie (4002 total fish, 35% of total catch). Similarly, bluegill and black crappie dominated the harvest, with black crappie accounting for 66% and bluegill accounting for 31% of the total harvest.

Walnut Point Lake. Anglers on Walnut Point Lake targeted bluegill (42% of anglers) more than any other species, followed by black bass (28% of anglers). Bluegill accounted for 70% of all fish caught, and 44% of all fish harvested, while largemouth bass accounted 27% of total catch and 21% of total harvest.

Wood Lake. Anglers mainly targeted channel catfish (25% of anglers) and largemouth bass (16% of anglers). Nearly half of all anglers (48%) indicated no species preference. Bluegill accounted for 44% of the total catch and 23% of total harvest, while channel catfish accounted for 21% of total catch and 68% of total harvest. Largemouth bass accounted for 15% of total catch with nearly no harvest.

Lake Shelbyville (Main Lake). Most anglers on Lake Shelbyville targeted crappie (46% of anglers) or largemouth bass (21%). Total catch was dominated by white crappie (141,084 fish, 56% of total catch), followed by largemouth bass (32728 fish, 13% of total catch). White bass (*Morone chrysops*) (12% of catch), bluegill (7%) and black crappie (6%) also made contributions to total catch. Harvest was also dominated by white crappie (52208 fish, 68% of total harvest), followed by white bass (8670 fish, 11% of total harvest), black crappie (5275 fish, 7% of total harvest) and bluegill (5102 fish, 7% of total harvest). Largemouth bass accounted for less than 1% of total catch.

Lake Shelbyville (Tailwater). Over 60% of all anglers on the Shelbyville Tailwater indicated no preference for a particular species, while nearly 15% were targeting muskellunge (*Esox masquinongy*), and nearly 11% targeted channel catfish. Bluegill (2047 fish, 19% of total catch) and muskellunge (1663

fish, 16% of total catch) were the most frequently caught fish, and bluegill was the leading harvested species (465 fish, 22% of total harvest). Bigmouth buffalo was also harvested in significant numbers, accounting for nearly 21% of all harvested fish.

RECOMMENDATIONS

The creel information collected is an important tool for assessing the interaction between the angler and the resource, and the continuation of lake creel surveys is essential to evaluate management concerns and needs. Project staff should continue to meet with IDNR Division of Fisheries staff on a regular basis to discuss the needs of creel survey data for lake management objectives.

Efforts to analyze the historical database should continue to supplement important research and management questions. Analyses of individual lake fisheries using creel data should continue, and be compared to historical estimates in order to identify trends and interpret fishery dynamics.

Lake creel data is highly critical for evaluating the success of experimental bluegill harvest regulations under Project F-128-R, and for evaluation of largemouth bass stocking under Project F-135-R. Efforts are underway to use the creel

database on specific lakes to assess how regulations have affected the fishery for bluegill and largemouth bass.

TABLE 1. Creel lakes and streams surveyed during segment 17.

Segment 17 (2003)

<u>Lake/Stream</u>	<u>County</u>
Bloomington	McLean
Dolan	Hamilton
Glendale	Pope
Hillsboro	Montgomery
Homer	Champaign
McLeansboro	Hamilton
Mingo	Vermillion
Pierce	Winnebago
Red Hills	Lawrence
Shelbyville Main Lake	Shelby/Moultrie
Shelbyville Tailwater	Shelby/Moultrie
Sterling	Lake
Walnut Point	Douglas
Wood	Moultrie

JOB 101.2 FISHERIES DATABASE ENHANCEMENT

OBJECTIVE

Fully combine data for all three FAS databases including initiation of entry of data associated with the Division of Fisheries and INHS historical streams data. Prepare field data entry software for use by creel personnel and district biologists. Complete the new Index of Biotic Integrity (IBI) component when the final draft of the procedure becomes available. Extend FAS graphics to permit high-quality visualization of aggregate and multi-year data.

PROCEDURES

The rivers and streams Fisheries Analysis System (FAS) software and documentation went through several revisions following comments from users and clarifications from Illinois Environmental Protection Agency regarding the new IBI developed by Roy Smogor. Testing of all components, including data entry, has been completed, and the software is in general use by the streams biologists.

Release of the field data entry computers has been postponed after a number of meetings with the Fisheries biologists in which an amended approach was suggested. We are

still awaiting access to the unentered streams field sheets, but indications are that we will have full access sometime in the summer of 2004.

All new FAS software is fully 32-bit and uses the 32-bit Borland Database Engine (BDE). We are licensed to distribute the BDE at no cost without software. The most important consequence of this is that no new program requires the presence of either Paradox or Quattro Pro for proper functioning. This is important because although most users of FAS use Borland products, there are a few that don't. The new visualization software is also built for 32-bit Windows.

Statewide lakes database construction is now being done by script. This has proven to be a major time-saver. Some of the Lakes data was still in the form of compressed data from the Apple II and had never been converted to Paradox. This data has been successfully unpacked and combined using scripts, which were introduced to expedite this process.

All portions of the FAS software and databases developed under F-69-R and F-120-R continue to be supported and improved as a part of our ongoing commitment to promote the use of FAS as a fisheries policy and research tool.

RECOMMENDATIONS

A new FAS web server should be used to automate the process of generating the statewide FAS databases. Submission of additions to the data should be web-based. Error-checking programs for lakes and streams should be supplied to the Fisheries personnel who enter the data. A program like this has been in use by the F-69-R creel program for several years, and yields a database of sufficient quality to be included in the statewide database without further checking. All FAS statewide databases should be generated by script to reduce the preparation time required.

If these recommendations are followed, complete and up-to-date statewide databases of all data that has currently been entered are expected to be available by this fall.

JOB 101.3 COORDINATION WITH ONGOING FISHERIES RESEARCH PROJECTS

OBJECTIVE

Use the existing creel and FAS databases to provide supportive information to help define fish populations in study lakes associated with ongoing bluegill (F-128-R) and largemouth bass (F-135-R) projects. Analyze the impact of two strategies for changing population size structure of fish populations through experimental harvest regulations and predator/habitat manipulations.

PROCEDURES

Project F-128-R. Lake selection for creel surveys conducted during this segment was based on the needs for creel data of Project F-128-R. Specifically, creel surveys conducted under F-69-R after 1999 provide a post-treatment measurement of fish populations in lakes being studied under F-128-R. This provides an important measurement of the effects of experimental regulations and supplemental stocking of bluegill predators.

Project F-135-R. Evaluation of fish stocking programs in Illinois lakes was identified as an important objective of Project F-69-R. Currently, stocking evaluations are made by IDNR Division of Fisheries personnel, based in part on results of creel survey data collected from Project F-69-R. These

evaluations are generally lake-specific, and little has been done to evaluate stocking on a statewide level. As stocking evaluations are a primary goal of Project F-135-R *Factors Influencing Largemouth Bass Recruitment: Implications for the Illinois Management and Stocking Program*, we expect to contribute the analysis of creel survey data towards largemouth bass stocking evaluations. Near completion of cleanup efforts on the FAS Lakes database during this and previous segments has now opened the door for its use in population analyses to evaluate the success of stocking programs and support research efforts on Project F-135-R.

FINDINGS

Project F-128-R. Creel surveys were conducted on twelve project lakes during segment 17, bringing the total number of project lakes surveyed post-treatment to twenty-five. Analyses are just now underway to produce interim post-treatment results for Projectg F-128-R, and will be reported in that project's next annual report.

Project F-135-R. Analyses regarding effects of stocking largemouth bass are still underway using the creel results for the F-135-R study lakes.

RECOMMENDATIONS

Creel surveys are an essential component of Projects F-128-R and F-135-R, and should continue to be carried out under Project F-69-R to allow us to assess impact to the creel of the adaptive management programs underway as part of these two studies. Most importantly, however, intensive efforts must continue to bring the other two FAS databases (FAS Lakes and FAS Streams) on line as usable resources. Tremendous progress has been made on this front in Segment 17, and should continue into future segments. Once this is accomplished, assessments of bluegill project and largemouth bass project study lakes should be conducted and compared to creel datasets and project specific sampling results.

TABLE 2. Segment 17 Job Costs - Budget v. Actual.

	<u>Budget</u>	<u>Actual</u>	<u>+/-</u>
Job 101.1 Angler Surveys	\$476,782	\$477,866	(\$1,084)
Job 101.2 Fisheries Database Enhancement	\$98,538	\$99,017	(\$479)
Job 101.3 Coordination with ongoing Fisheries research	\$60,550	\$58,987	\$1,563
TOTAL COSTS	\$635,870	\$635,870	\$0
Federal Share	\$476,876	\$476,876	\$0
State Share	\$158,993	\$158,993	\$0

APPENDIX A. INTERPRETIVE GUIDE TO UNDERSTANDING CREEL SURVEY RESULTS

The following guide is intended to be included with every distribution of the creel survey results. It has been updated from an earlier guide published by Steve Sobaski (IDNR - Watershed Management Section, personal communication).

What's Included in the INHS Interim and Final Creel Reports

To help you interpret the Interim and Final Creel Reports from the Illinois Natural History Survey, we've included this guide to explain the contents of various pages. You will also find a copy of the *Statistical Design and Calculation of Each Creel*, Appendix A. of the 1990 Illinois Natural History Survey report 90/10: Creel Survey Manual for the District Fisheries Analysis System (FAS): A Package for Fisheries Management and Research. This appendix describes how the creel data are collected, their subdivision for analysis by five different categories: specifically the Year Period, Lake Section, Day Period (Morning, Midday, Afternoon), Day Type (Weekday vs. Weekend/Holidays), and Fishing Mode (Boat vs. Shore) that the data were collected from (in other words, the stratification scheme applied to the creel

data), and the statistical methodology used to calculate the estimated total hours of fishing, harvest, and catch.

Each creel report is composed of the following information (in this order):

STRATIFICATION SUMMARY

Information presented here is intended to provide some background as to the pre- and post-stratification methods used in analysis. Creel surveys will be either day or night surveys, and this will be indicated first. Reported next will be the range of sampling dates for which estimates are made. No attempt is made to extrapolate estimates out to months in which no data are collected, unless otherwise noted.

SAMPLING RATIO

The SAMPLING RATIO value, listed directly below STRATIFICATION SUMMARY, is the ratio of the number of Day Periods sampled divided by the total number of day periods included in the estimates. In short, the SAMPLING RATIO gives an index of the intensity of the sampling schedule. For example, suppose 128 Day Periods were sampled between 3/15 and 6/15. To calculate the SAMPLING RATIO, the total

number of Day Periods sampled is divided by the total number of possible Day Periods occurring during that span of dates. In this example, there are 93 days within the span of 3/15 to 6/15, thus 3×93 or 279 day periods. The Sampling Ratio = $(128/279) \times 100\%$, or 45.8%.

NUMBER OF INTERVIEWS

This is the total number of all angler interviews conducted during the season.

PART ONE: EFFORT, HARVEST, AND CATCH ESTIMATES

TABLE 1. TOTAL FISHING EFFORT

This table reports the estimated total angler-hours of fishing by all anglers. Unless otherwise noted, reports will always apply to all pole and line fishing activity on the entire lake.

As described in *The Statistical Design and Calculation of Each Creel*, the effort estimate, i.e. the estimated total angler-hours of fishing, is calculated separately for boat and shore anglers as well as for all anglers for each Day Period sampled. These estimates are based on the instantaneous counts of anglers and are scaled up by the

effective hours available for fishing for that time of day and year, rather than on the hours of fishing reported in angler interviews. An estimated average effort is then calculated for each combination (i.e. stratum) of Year Period, Lake Section, Day Period, Day Type, and Fishing Mode by averaging the total hours of fishing from all days sampled within the stratum. Stratum averages are scaled up over all possible days in the stratum to provide an estimated stratum total effort. Finally, each stratum total effort is added together to give the separate estimates of total hours of fishing for boat and shore anglers for the lake and time period of interest.

A weighted estimate of the total hours of fishing for anglers is calculated using a stratified approach. Rather than combining the boat and shore instantaneous counts for each sample and ignoring any potential difference in the day-to-day variability of boat versus shore fishing, the stratified approach first calculates separate estimates of total effort for boat and for shore anglers for the entire period being reported. These totals and their variances are then combined to give the overall total estimated hours of fishing.

The **FISHING MODE** column will usually include BOAT, SHORE, and BOAT & SHORE. Estimates are made separately for boat and for shore fishing, and these estimates are later combined into an overall total estimate of both boat and shore.

The **DAY TYPE** column shows estimates for WEEKDAY and HOLIDAY. The WEEKDAY estimates only include Monday through Friday fishing, excluding holidays that fall on weekdays. The HOLIDAY estimates include all holidays and all weekend days (Saturdays and Sundays). Days that are considered holidays for the purposes of this creel only include: New Year's Day, Martin Luther King Jr.'s Birthday Observed, Presidents' Day, Memorial Day Observed, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day.

Estimates of the total hours of fishing (the **ANGLER-HOURS** column) by BOAT anglers, SHORE anglers, and BOAT & SHORE anglers are reported in separate blocks in the table. The strata total estimates for each type of angler are further subdivided by Day Type (WEEKDAY versus HOLIDAY).

The **95% CI** columns follow estimated totals, such as ANGLER HOURS in TABLE 1, and in TABLES 3-8. These report the 95% confidence interval for the estimated totals. In other words, 95% of the time we'd expect the true total to fall within that given range. In cases where the lower limit of the confidence interval is a negative number, a value of zero is shown in the table. The percentage listed in () after the confidence interval is another indicator of the precision of the estimate. This percentage is calculated as: $(\text{Upper value of the 95\% CI} - \text{Estimated Total}) / \text{Estimated Total}$. The larger this percentage is, the less accurate the estimate. For example, if the Total Angler Hours Estimate is 30,293, with an upper 95% confidence interval of 34,952, the precision percentage is calculated as $(34,952 - 30,293) / 30,293$ or 15.38%. The percentage is rounded to the nearest integer for the tabular output.

The **HOURS/ACRE** column gives the Hours of Fishing per acre of lake surface area. This is calculated by dividing the ANGLER HOURS value in each row by the acreage value shown at the top of the page.

The **% EFF INTVD** column, located on the right margin of the effort table, is the percentage of the estimated total

effort actually accounted for by angler interviews. This number is calculated by summing the total hours of fishing reported by anglers from each stratum (i.e. Day Period, Year Period, Day Type, and Fishing Mode combination) and dividing it by the estimated total fishing effort (calculated from the instantaneous counts) for that period. For instance, a total of 120 hours of weekday fishing might be reported by BOAT anglers for Day Period 1 (Sunrise to 10:00 A.M.) between 6/01/94 and 6/15/94. The estimated total BOAT effort, however, based on the average BOAT angler instantaneous counts of Day Period 1 extrapolated by the 11 weekdays within 6/01/94 and 6/15/94, turns out to be 360 hours. The % EFF INTVD value for this stratum would be: $(120 \text{ angler-hours from interviews}) / (360 \text{ angler-hours from instantaneous counts}) \times 100 = 33.33\%$. Like SAMPLING RATIO, this number gives an indication of the effectiveness of the sampling intensity. A higher % EFF INTVD value indicates a more complete job of obtaining information on all of the angling activity for that type of angler. If you sampled every day within a stratum and interviewed every angler (in other words conducted a census rather than a survey), this percentage would approach or possibly exceed 100%.

TABLE 2. TOTAL FISHING HARVEST AND HARVEST RATES, IN NUMBERS OF FISH

The **# HARVESTED** column is the estimated total number of fish harvested for the season, by species. The top number in this column will always contain the estimated total number of all fish harvested for the season, as indicated by "All species" under the SPECIES column header. For any given species, a "**** NOT RECORDED ****" entry indicates that no harvested fish were recorded from the angler interviews, and therefore no estimate of the total harvest could be made.

The **95% CI** column next to the **# HARVESTED** column contains the 95% confidence interval estimate of the **# HARVESTED** value. The lower confidence limit is shown on the left and is separated by a dash from the upper confidence limit shown on the right. In cases where the lower limit of the confidence interval is a negative number, a value of zero is shown in the table. A negative or zero value for the lower 95% confidence interval is usually the result of very few fish of a particular species being sampled in the angler interviews. Next to the upper confidence limit, in

parentheses, is an additional estimate of the precision of the # HARVESTED estimate, and is calculated as:

$$((\text{Upper 95\% CI} - \# \text{ HARVESTED}) / \# \text{ HARVESTED}) \times 100\%$$

The **#/HOUR** estimate is the population harvest rate, and is defined as the number of fish harvested per angler-hour of fishing. Note that angler-hours are the same units as are reported in TABLE 1. Also, note that this is not an estimate of the average harvest rate per angler. Rate estimates with a value of .000 have a harvest rate that is less than 0.001 but greater than zero. A zero rate is not recorded.

The **95% CI** column next to the **#/HOUR** column is the 95% Confidence Interval estimate of the **#/HOUR** estimate, and is calculated similarly to the methods described earlier.

The **#/HA** column is the estimated total number of fish harvested per hectare of lake surface area. One hectare is equivalent to 2.4711 acres.

The **#/ACRE** column is the estimated total number of fish harvested per acre of lake surface area. Lake surface area is reported at the top of Page 1.

The **SPECIES** column lists all species recorded in angler interviews. Note that this is different from the original Apple II/e creel analysis reports. These original reports were memory-limited to only 9 species per table.

Additional species were either included in an additional table or were listed under "MSC" (Miscellaneous species) in the harvest table. Beginning with the 1999 creel analysis reports, all species recorded in angler interviews will be listed in Table 2 through Table 7. Any species that does not appear in these tables was not recorded in angler interviews, and therefore no estimate could be made of the harvest or catch for that species.

TABLE 3. TOTAL FISHING HARVEST AND HARVEST RATES, IN KILOGRAMS.

Table 3 contains the estimated total fishing harvest and harvest rates in kilograms, and is structurally similar to TABLE 2. See TABLE 2 for a further discussion of the estimates under the 95% CI and SPECIES headers. Unique features of TABLE 3 are discussed below.

The **KG HARVESTED** column contains the estimated total harvest biomass, in kilograms.

The **KG/HOUR** column is the estimated total harvest biomass per angler-hour of fishing effort.

The **KG/HA** column is the estimated total harvest biomass per hectare of lake surface area.

The **AVE KG** column is the estimated average weight per harvested fish, in kilograms. Note that TABLES 3,4,6,and 7 do not contain a per acre estimate of harvest or catch.

TABLE 4. TOTAL FISHING HARVEST AND HARVEST RATES, IN POUNDS.

TABLE 4 is structurally similar to TABLE 3, except that all biomass estimates are reported in pounds rather than in kilograms. For a discussion of the organization of TABLE 4, see the discussion for TABLE 2 and TABLE 3.

TABLES 5-7. TOTAL FISHING CATCH AND CATCH RATES

TABLES 5-7 are structurally similar to TABLES 2-4, respectively, except that all harvest estimates are replaced with catch estimates. Catch estimates contain estimates of both harvested fish and released fish. For a discussion of the organization of TABLES 5-7, see the discussions for TABLES 2-4, respectively.

A NOTE ON BIOMASS ESTIMATES

Rather than measuring fish weights directly during interviews, weights are estimated based on the standard length to weight relationship:

$$\text{Weight} = a * \text{TotalLength}^b$$

These length-weight relationships were developed for each species from IDNR population survey data stored in the Illinois STATE FAS database, or from fisheries literature. Average fish weights reported in the AVG KG and AVG LB are calculated by dividing the estimated total biomass caught (e.g. KG CAUGHT) by the estimated total number caught (e.g. # CAUGHT) for each species.

PART TWO: SUPPLEMENTAL INTERVIEW INFORMATION

The pages following the effort, harvest, and catch tables summarize various data collected during angler interviews. Numbers reported here differ from those of the previous tables since these numbers are unweighted averages based solely on interview data rather than estimated totals for an entire year. Rather than stratifying these data as is done for the effort, harvest, and catch estimates, these tables take all interview data, combine it regardless of when it was collected during the survey and report simple averages.

TABLE 8. TRIP LENGTH, DISTANCE TRAVELED, AND SUCCESS RATING

TABLE 8 contains summary statistics for fishing trip length, distance traveled from home to the fishing site, and fishing success rating. Fishing trip length is identified by the header HOURS PER COMPLETED TRIP, and is defined as the number of decimal hours between the start and end of an angler's fishing trip on a given day. MILES TRAVELED is defined as the number of miles that an angler traveled from home to arrive at the fishing site. SUCCESS RATING is an angler's interpretation of his or her fishing

success during the trip for which he or she was interviewed. The angler can provide an answer on a scale from 1 to 10, with 10 being the most successful. While this rating is subjected to each individual angler's interpretation, anglers are asked not to consider social or other factors influencing their fishing experience, and to focus only on their catch.

The **MEAN** is calculated as a simple, unweighted, and unstratified average.

The **95% CI** column is the 95% confidence interval of the MEAN. (For a discussion of the 95% CI, see the discussion of TABLE 1.)

The **MIN** and **MAX** columns represent the range of values reported in the interviews, or the minimum value and maximum value, respectively.

The **#SAMPLES** column contains the sample size, or number of interviews, used in the calculations.

Two footnotes appear at the bottom of TABLE 8. The first footnote indicates the number of split interviews used in

the calculation of HOURS PER COMPLETED TRIP. A split interview is defined as an interview that falls over two or three Day Periods (Morning, Midday, and Afternoon). For example, a fishing trip that began at 7:00am and ended at 12:00pm falls over both the Morning Day Period and the Midday Day Period. The second footnote indicates the percentage of all interviews that were completed trip interviews. All other interviews are considered incomplete, and are defined as interviews of anglers that are still actively fishing at the time of the interview.

ILLEGAL HARVEST

Illegally harvested fish are defined as fish that are in the possession of the angler at the time of the interview that have been harvested in violation of (1) the Illinois Fishing Information regulation booklet, published by the Illinois Department of Natural Resources, or (2) any additional site-specific regulations not outlined in the regulation booklet. Creel clerks witnessing harvest violations do not notify the angler, nor do they notify the authorities. The ILLEGAL HARVEST information reported here is simply a tally of the number of interviews that had illegally harvested fish at the time of the interview.

TABLE 9. FREQUENCY DISTRIBUTION OF ANGLER PARTY SIZE

An angler party is defined as a group of anglers fishing together and combined into a single angler interview. For example, two anglers fishing in the same boat are often interviewed together as an angler party size of 2. TABLE 9 shows the frequency distribution of angler party sizes for boat and shore interviews.

TABLE 10. TARGETED SPECIES

TABLE 10 is a tally of all species that anglers are targeting, along with a percentage of the total in parentheses. During an interview, anglers are asked what species they are trying to catch, or are *targeting*. Anglers can respond by saying they are targeting a specific species (i.e. bluegill), a family of species (i.e. sunfish), or any fish at all.

TABLE 11. CATCH FREQUENCY DISTRIBUTION

TABLE 11 is a frequency distribution of anglers reporting a given number of harvested and released fish, by species,

for completed trip interviews only. It examines each interview for the number of fish of a single species or species group reported as harvested and released. It then calculates the average harvest and catch per angler by dividing the total number harvested and the total released for that species by the number of anglers in the party. The table reports the number of anglers, broken down by their catch rate. An example of this table, for walleye reported as harvested in 500 completed trip interviews might be:

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Walleye																
HARVEST	651	50	7	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	578	101	26	3	-	-	-	-	-	-	-	-	-	-	-	-

The 500 completed trip interviews actually cover the catch of 708 anglers in this case, since a number of angler parties had more than one angler. Of these 708 anglers, 651 anglers reported no walleye harvested on their trip (or averaged less than 1 walleye per angler per angler party), 50 anglers were in parties that harvested an average of 1 walleye/angler, and 7 anglers were in parties that

harvested an average of 2 walleye/angler. No anglers were in parties that harvested more than 2 walleye/angler. Each zero value is represented by a dash.

APPENDIX B. 2003 CREEL SURVEY RESULTS

The following pages contain the final results from the fourteen 2003 day creel surveys conducted on Illinois lakes, funded by Project F-69-R-17. Results are presented in the order listed in the table below, by lake name. Following the individual lake results presented in Appendix B are four tables providing comparisons between lakes (Tables B1-4).

<i>LAKE</i>	<i>ACRES</i>	<i>COUNTY</i>	<i>REGION</i>	<i>DISTRICT</i>	<i>BIOLOGIST</i>
Bloomington	365	McLean	3	10	Mike Garthaus
Dolan	70	Hamilton	5	20	Kurt Daine
Glendale	80	Pope	5	20	Kurt Daine
Hillsboro	100	Montgomery	4	15	Jeff Pontnack
Homer	81	Champaign	3	10	Mike Garthaus
McLeansboro	75	Hamilton	5	20	Kurt Daine
Mingo	172	Vermillion	3	10	Mike Garthaus
Pierce	147	Winnebago	1	1	Alec Pulley
Red Hills	40	Lawrence	5	19	Mike Hooe
Shelbyville Main Lake	10,191	Shelby/ Moultrie	3	11	Mike Mounce
Shelbyville Tailwater	6	Shelby	3	11	Mike Mounce
Sterling	68	Lake	2	7	Frank Jakubicek
Walnut Point	52	Douglas	3	11	Mike Mounce
Wood	27	Moultrie	3	11	Mike Mounce

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 BLOOMINGTON
 635 ACRES
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 313/693 = 45.2%

NUMBER OF INTERVIEWS: 1976

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	17460	14918-20002 (15%)	27	23-31 (15%)	11%
	HOLIDAY	14042	11940-16145 (15%)	22	19-25 (15%)	22%
	TOTAL	31502	28204-34801 (10%)	50	44-55 (10%)	16%
SHORE	WEEKDAY	6083	4663-7504 (23%)	10	7-12 (23%)	6%
	HOLIDAY	6389	5127-7651 (20%)	10	8-12 (20%)	14%
	TOTAL	12472	10572-14372 (15%)	20	17-23 (15%)	10%
BOAT & SHORE	WEEKDAY	23543	20631-26455 (12%)	37	32-42 (12%)	10%
	HOLIDAY	20431	17979-22883 (12%)	32	28-36 (12%)	19%
	TOTAL	43974	40167-47781 (9%)	69	63-75 (9%)	14%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
25264	21153-29376	(16%)	.343	.287-.398 (16%)	98.31	39.79	All species
18	0-38	(113%)	.001	.000-.003 (167%)	0.07	0.03	Black bullhead
6478	5125-7832	(21%)	.087	.066-.107 (23%)	25.21	10.20	Black crappie
2313	1510-3116	(35%)	.039	.024-.055 (40%)	9.00	3.64	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
2	0-9	(245%)	.000	.000-.000 (245%)	0.01	0.00	Black x White crappie
12	0-30	(157%)	.000	.000-.000 (148%)	0.05	0.02	Carp
504	342-666	(32%)	.007	.004-.010 (42%)	1.96	0.79	Channel catfish
8	0-19	(142%)	.000	.000-.000 (146%)	0.03	0.01	Flathead catfish
77	1-153	(99%)	.000	.000-.001 (119%)	0.30	0.12	Freshwater drum
10	0-32	(218%)	.000	.000-.000 (220%)	0.04	0.02	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
126	52-201	(59%)	.001	.000-.003 (101%)	0.49	0.20	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
29	0-61	(109%)	.001	.000-.001 (118%)	0.11	0.05	Striped bass x White bass
33	0-86	(166%)	.001	.000-.003 (148%)	0.13	0.05	Smallmouth bass
			****	NOT RECORDED ****			Striped bass
207	124-290	(40%)	.003	.001-.004 (58%)	0.80	0.33	Walleye
4	0-10	(149%)	.000	.000-.000 (148%)	0.02	0.01	Warmouth
			****	NOT RECORDED ****			White bass
14060	11348-16773	(19%)	.181	.143-.219 (21%)	54.71	22.14	White crappie
1383	883-1884	(36%)	.022	.011-.032 (49%)	5.38	2.18	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
5432	4622-6242	(15%)	.075	.063-.086 (16%)	21.14	0.215	All species
6	0-12	(104%)	.000	.000-.001 (152%)	0.02	0.341	Black bullhead
1409	1125-1693	(20%)	.019	.015-.023 (23%)	5.48	0.218	Black crappie
347	240-455	(31%)	.006	.004-.008 (37%)	1.35	0.150	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
0	0-2	(245%)	.000	.000-.000 (236%)	0.00	0.188	Black x White crappie
12	0-31	(155%)	.000	.000-.000 (148%)	0.05	1.045	Carp
413	278-547	(33%)	.006	.003-.009 (46%)	1.61	0.819	Channel catfish
9	0-22	(142%)	.000	.000-.000 (146%)	0.03	1.134	Flathead catfish
45	0-95	(111%)	.000	.000-.001 (127%)	0.18	0.589	Freshwater drum
1	0-2	(218%)	.000	.000-.000 (220%)	0.00	0.073	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
150	45-255	(70%)	.001	.000-.003 (117%)	0.58	1.186	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
33	0-69	(112%)	.001	.000-.001 (123%)	0.13	1.115	Striped bass x White bass
40	0-109	(174%)	.001	.000-.003 (147%)	0.15	1.220	Smallmouth bass
			****	NOT RECORDED ****			Striped bass
147	83-211	(43%)	.002	.001-.003 (55%)	0.57	0.713	Walleye
1	0-2	(151%)	.000	.000-.000 (149%)	0.00	0.183	Warmouth
			****	NOT RECORDED ****			White bass
2614	2133-3094	(18%)	.034	.027-.042 (21%)	10.17	0.186	White crappie
206	133-279	(35%)	.003	.002-.005 (49%)	0.80	0.149	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
11976	10191-13762	(15%)	.164	.138-.190 (16%)	18.86	0.474	All species
13	0-27	(104%)	.001	.000-.002 (152%)	0.02	0.751	Black bullhead
3107	2481-3733	(20%)	.042	.032-.052 (23%)	4.89	0.480	Black crappie
765	529-1002	(31%)	.013	.008-.018 (37%)	1.21	0.331	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
1	0-3	(236%)	.000	.000-.000 (245%)	0.00	0.414	Black x White crappie
27	0-69	(155%)	.000	.000-.000 (148%)	0.04	2.304	Carp
910	614-1206	(33%)	.014	.007-.020 (46%)	1.43	1.807	Channel catfish
20	0-48	(142%)	.000	.000-.000 (146%)	0.03	2.500	Flathead catfish
99	0-209	(111%)	.001	.000-.001 (127%)	0.16	1.298	Freshwater drum
2	0-5	(220%)	.000	.000-.000 (218%)	0.00	0.160	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
330	99-562	(70%)	.003	.000-.007 (117%)	0.52	2.615	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
72	0-152	(112%)	.001	.000-.003 (123%)	0.11	2.458	Striped bass x White bass
88	0-240	(174%)	.003	.000-.007 (147%)	0.14	2.689	Smallmouth bass
			****	NOT RECORDED ****			Striped bass
325	184-466	(43%)	.004	.002-.006 (55%)	0.51	1.571	Walleye
2	0-4	(152%)	.000	.000-.000 (151%)	0.00	0.402	Warmouth
			****	NOT RECORDED ****			White bass
5762	4702-6822	(18%)	.076	.060-.092 (21%)	9.07	0.410	White crappie
454	293-614	(35%)	.007	.004-.011 (49%)	0.71	0.328	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
96961	86534-107387 (11%)	1.498	1.328-1.668 (11%)	377.31	152.69	All species
60	0-131 (119%)	.002	.000-.005 (121%)	0.23	0.09	Black bullhead
11131	8956-13306 (20%)	.159	.116-.202 (27%)	43.31	17.53	Black crappie
16817	13607-20028 (19%)	.240	.187-.294 (22%)	65.44	26.48	Bluegill
5	0-20 (278%)	.000	.000-.000 (257%)	0.02	0.01	Bullhead spp.
2	0-9 (245%)	.000	.000-.000 (245%)	0.01	0.00	Black x White crappie
199	111-287 (44%)	.002	.000-.004 (77%)	0.77	0.31	Carp
1043	794-1291 (24%)	.014	.010-.017 (28%)	4.06	1.64	Channel catfish
69	27-110 (61%)	.001	.000-.001 (90%)	0.27	0.11	Flathead catfish
1764	1289-2239 (27%)	.019	.012-.026 (36%)	6.86	2.78	Freshwater drum
288	77-498 (73%)	.003	.000-.006 (98%)	1.12	0.45	Green sunfish
349	6-692 (98%)	.011	.000-.022 (98%)	1.36	0.55	Gizzard shad
23948	21053-26842 (12%)	.354	.306-.401 (13%)	93.19	37.71	Largemouth bass
226	127-325 (44%)	.002	.001-.004 (62%)	0.88	0.36	Northern pike
51	13-89 (74%)	.001	.000-.001 (92%)	0.20	0.08	Rock bass
21	0-66 (216%)	.000	.000-.001 (236%)	0.08	0.03	Redear sunfish
1734	1046-2422 (40%)	.038	.018-.059 (52%)	6.75	2.73	Striped bass x White bass
1125	757-1492 (33%)	.021	.014-.029 (35%)	4.38	1.77	Smallmouth bass
55	0-165 (199%)	.001	.000-.002 (193%)	0.21	0.09	Striped bass
1681	1354-2007 (19%)	.037	.022-.051 (40%)	6.54	2.65	Walleye
40	0-81 (102%)	.000	.000-.000 (99%)	0.16	0.06	Warmouth
9	0-31 (245%)	.000	.000-.000 (245%)	0.04	0.01	White bass
27265	23039-31490 (15%)	.423	.351-.496 (17%)	106.10	42.94	White crappie
9080	7353-10808 (19%)	.169	.094-.244 (44%)	35.34	14.30	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
21967	19706-24227 (10%)	.341	.302-.380 (11%)	85.48	0.227	All species
13	2-23 (86%)	.000	.000-.001 (111%)	0.05	0.209	Black bullhead
1883	1525-2241 (19%)	.026	.020-.031 (22%)	7.33	0.169	Black crappie
1726	1393-2060 (19%)	.024	.019-.030 (22%)	6.72	0.103	Bluegill
0	0-2 (278%)	.000	.000-.000 (278%)	0.00	0.081	Bullhead spp.
0	0-2 (245%)	.000	.000-.000 (236%)	0.00	0.188	Black x White crappie
110	57-163 (48%)	.001	.000-.002 (63%)	0.43	0.553	Carp
678	507-849 (25%)	.009	.006-.012 (32%)	2.64	0.650	Channel catfish
110	41-179 (63%)	.001	.000-.002 (90%)	0.43	1.605	Flathead catfish
615	449-780 (27%)	.007	.005-.009 (34%)	2.39	0.348	Freshwater drum
10	3-16 (65%)	.000	.000-.000 (81%)	0.04	0.033	Green sunfish
14	0-28 (98%)	.000	.000-.001 (99%)	0.06	0.041	Gizzard shad
8587	7347-9827 (14%)	.127	.107-.147 (16%)	33.42	0.359	Largemouth bass
275	97-452 (65%)	.002	.001-.004 (54%)	1.07	1.214	Northern pike
8	1-15 (89%)	.000	.000-.000 (95%)	0.03	0.153	Rock bass
1	0-4 (167%)	.000	.000-.000 (217%)	0.01	0.066	Redear sunfish
1628	924-2331 (43%)	.036	.016-.057 (57%)	6.33	0.939	Striped bass x White bass
939	661-1218 (30%)	.020	.011-.029 (46%)	3.66	0.835	Smallmouth bass
4	0-11 (147%)	.000	.000-.000 (143%)	0.02	0.081	Striped bass
624	489-759 (22%)	.012	.008-.016 (33%)	2.43	0.371	Walleye
4	0-8 (98%)	.000	.000-.000 (99%)	0.02	0.105	Warmouth
1	0-2 (245%)	.000	.000-.000 (245%)	0.00	0.071	White bass
3847	3243-4451 (16%)	.060	.049-.070 (18%)	14.97	0.141	White crappie
889	720-1058 (19%)	.015	.011-.020 (30%)	3.46	0.098	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
48428	43445-53411 (10%)	.752	.667-.838 (11%)	76.26	0.499	All species
28	4-51 (86%)	.001	.000-.002 (111%)	0.04	0.462	Black bullhead
4151	3362-4941 (19%)	.057	.044-.069 (22%)	6.54	0.373	Black crappie
3806	3071-4541 (19%)	.054	.042-.066 (22%)	5.99	0.226	Bluegill
1	0-4 (278%)	.000	.000-.000 (257%)	0.00	0.179	Bullhead spp.
1	0-3 (236%)	.000	.000-.000 (245%)	0.00	0.414	Black x White crappie
242	125-359 (48%)	.002	.001-.003 (63%)	0.38	1.219	Carp
1495	1117-1872 (25%)	.020	.013-.026 (32%)	2.35	1.434	Channel catfish
243	90-396 (63%)	.003	.000-.005 (90%)	0.38	3.538	Flathead catfish
1355	989-1721 (27%)	.015	.010-.020 (34%)	2.13	0.768	Freshwater drum
21	7-35 (65%)	.000	.000-.000 (81%)	0.03	0.073	Green sunfish
31	1-62 (98%)	.001	.000-.002 (99%)	0.05	0.090	Gizzard shad
18931	16198-21665 (14%)	.281	.236-.325 (16%)	29.81	0.791	Largemouth bass
605	215-996 (65%)	.005	.002-.008 (54%)	0.95	2.677	Northern pike
17	2-33 (89%)	.000	.000-.000 (95%)	0.03	0.338	Rock bass
3	0-8 (167%)	.000	.000-.000 (217%)	0.00	0.146	Redear sunfish
3589	2038-5140 (43%)	.080	.034-.126 (57%)	5.65	2.069	Striped bass x White bass
2071	1458-2685 (30%)	.043	.023-.063 (46%)	3.26	1.842	Smallmouth bass
10	0-24 (147%)	.000	.000-.000 (143%)	0.02	0.178	Striped bass
1375	1078-1672 (22%)	.026	.017-.034 (33%)	2.17	0.818	Walleye
9	0-18 (98%)	.000	.000-.000 (99%)	0.01	0.231	Warmouth
1	0-5 (245%)	.000	.000-.000 (236%)	0.00	0.156	White bass
8481	7149-9812 (16%)	.131	.108-.155 (18%)	13.36	0.311	White crappie
1960	1588-2333 (19%)	.034	.024-.044 (30%)	3.09	0.216	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.7	3.4-3.9	(7%)	0.7	9.9	250
SHORE	1.6	1.2-1.9	(21%)	0.3	4.0	27
BOAT & SHORE	3.5	3.2-3.7	(7%)	0.3	9.9	277
MILES TRAVELED						
SUCCESS RATING (1-10)	20.4	19.5-21.2	(4%)	1	200	1626
	3.1	3.0-3.2	(3%)	1	10	1600

*130 samples were from split interviews of completed trips.

15.0% of all 1846 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 62 out of 1846 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	445	669	185	27	1					
SHORE INTERVIEWS	206	239	64	9	1					

Table 10. Number of interviews (and %) per species sought for all interviews.

214 (11.6%)	ANY	All species
53 (2.9%)	BLG	Bluegill
3 (0.2%)	BSS	Black bass spp.
101 (5.5%)	CCF	Channel catfish
805 (43.6%)	CRP	Crappie spp.
1 (0.1%)	FRD	Freshwater drum
478 (25.9%)	LMB	Largemouth bass
39 (2.1%)	SBH	Striped bass x White bass hybrid (Wiper)
15 (0.8%)	SMB	Smallmouth bass
136 (7.4%)	WAE	Walleye
1 (0.1%)	YLB	Yellow bass

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black bullhead																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	328	64	33	19	12	8	1	5	2	7	-	1	1	3	-	1
RELEASE	408	19	5	14	10	3	7	5	10	2	1	-	1	-	-	-
Bluegill																
HARVEST	437	38	8	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	319	62	29	35	7	11	8	4	4	2	2	2	-	-	-	-
Black x White crappie hybrid																
HARVEST	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	481	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	467	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	466	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flathead catfish																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	484	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	457	25	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	478	1	2	-	-	2	-	-	-	-	1	-	-	-	-	1
Largemouth bass																
HARVEST	481	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	176	94	64	52	26	19	21	9	6	2	3	1	3	1	1	7

Table 11.(cont.) Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Northern pike																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	474	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass x White bass hybrid (Wiper)																
HARVEST	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	448	20	4	7	1	2	-	1	1	-	1	-	-	-	-	-
Smallmouth bass																
HARVEST	482	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	468	16	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	479	4	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	470	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	427	47	7	2	2	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	483	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	485	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	484	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	286	34	19	24	12	25	16	10	12	10	7	4	1	10	1	14
RELEASE	265	60	24	22	21	25	26	11	14	5	5	2	-	3	-	2
Yellow bass																
HARVEST	479	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	382	34	20	17	16	4	7	-	3	1	-	-	1	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 DOLAN LAKE
 72 ACRES
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 298/693 = 43.0%

NUMBER OF INTERVIEWS: 899

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	1852	1373-2330 (26%)	26	19-33 (26%)	14%
	HOLIDAY	2254	1870-2639 (17%)	32	26-37 (17%)	30%
	TOTAL	4106	3492-4720 (15%)	57	49-66 (15%)	22%
SHORE	WEEKDAY	3612	2890-4333 (20%)	51	40-61 (20%)	12%
	HOLIDAY	4828	4087-5570 (15%)	68	57-78 (15%)	28%
	TOTAL	8440	7405-9474 (12%)	118	104-133 (12%)	21%
BOAT & SHORE	WEEKDAY	5463	4598-6329 (16%)	76	64-89 (16%)	12%
	HOLIDAY	7083	6247-7918 (12%)	99	87-111 (12%)	28%
	TOTAL	12546	11343-13749 (10%)	175	159-192 (10%)	21%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3682	2811-4553	(24%)	.220	.156-.284 (29%)	127.25	51.50	All species
			****	NOT RECORDED	****		Black bullhead
86	0-320	(270%)	.009	.000-.037 (306%)	2.99	1.21	Black crappie
40	0-138	(245%)	.001	.000-.003 (236%)	1.39	0.56	Bluegill
			****	NOT RECORDED	****		Unidentified catfish
2344	1895-2793	(19%)	.142	.105-.180 (26%)	81.01	32.79	Channel catfish
			****	NOT RECORDED	****		Green sunfish
121	45-196	(62%)	.004	.001-.006 (67%)	4.18	1.69	Largemouth bass
			****	NOT RECORDED	****		Redear sunfish
2	0-10	(318%)	.000	.000-.000 (318%)	0.08	0.03	Walleye
			****	NOT RECORDED	****		Warmouth
			****	NOT RECORDED	****		White bass
986	276-1697	(72%)	.060	.008-.112 (86%)	34.08	13.79	White crappie
60	0-129	(113%)	.003	.000-.008 (157%)	2.09	0.85	Yellow bullhead
41	0-114	(177%)	.001	.000-.003 (178%)	1.43	0.58	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1350	1097-1604	(19%)	.089	.061-.117 (31%)	46.67	0.367	All species
			****	NOT RECORDED	****		Black bullhead
7	0-25	(271%)	.001	.000-.003 (306%)	0.23	0.078	Black crappie
3	0-10	(236%)	.000	.000-.000 (245%)	0.10	0.072	Bluegill
			****	NOT RECORDED	****		Unidentified catfis
1112	884-1341	(21%)	.079	.052-.107 (35%)	38.44	0.474	Channel catfish
			****	NOT RECORDED	****		Green sunfish
128	60-197	(54%)	.004	.002-.007 (59%)	4.44	1.062	Largemouth bass
			****	NOT RECORDED	****		Redear sunfish
4	0-22	(430%)	.000	.000-.001 (430%)	0.14	1.730	Walleye
			****	NOT RECORDED	****		Warmouth
			****	NOT RECORDED	****		White bass
60	17-104	(72%)	.003	.000-.006 (89%)	2.08	0.061	White crappie
22	0-55	(149%)	.001	.000-.002 (136%)	0.76	0.363	Yellow bullhead
14	0-44	(218%)	.000	.000-.001 (218%)	0.48	0.335	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2977	2418-3536 (19%)	.196	.134-.257 (31%)	41.64	0.809	All species
		****	NOT RECORDED			Black bullhead
15	0-55 (271%)	.002	.000-.006 (306%)	0.21	0.172	Black crappie
6	0-22 (245%)	.000	.000-.001 (236%)	0.09	0.158	Bluegill
		****	NOT RECORDED			Unidentified catfis
2452	1948-2956 (21%)	.174	.114-.235 (35%)	34.29	1.046	Channel catfish
		****	NOT RECORDED			Green sunfish
283	131-435 (54%)	.010	.004-.015 (59%)	3.96	2.341	Largemouth bass
		****	NOT RECORDED			Redear sunfish
9	0-38 (318%)	.000	.000-.002 (430%)	0.13	3.814	Walleye
		****	NOT RECORDED			Warmouth
		****	NOT RECORDED			White bass
133	37-228 (72%)	.007	.001-.014 (89%)	1.86	0.135	White crappie
48	0-120 (149%)	.002	.000-.004 (136%)	0.68	0.800	Yellow bullhead
31	0-97 (218%)	.001	.000-.002 (218%)	0.43	0.739	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
15881	12777-18984 (20%)	.848	.684-1.012 (19%)	548.82	222.11	All species
2	0-6 (318%)	.000	.000-.000 (318%)	0.05	0.02	Black bullhead
217	0-525 (141%)	.020	.000-.049 (141%)	7.51	3.04	Black crappie
3597	2317-4876 (36%)	.123	.083-.162 (32%)	124.31	50.31	Bluegill
13	0-42 (220%)	.001	.000-.003 (220%)	0.46	0.18	Unidentified catfis
6755	5039-8471 (25%)	.420	.307-.533 (27%)	233.45	94.47	Channel catfish
38	0-121 (222%)	.001	.000-.002 (246%)	1.30	0.53	Green sunfish
1018	732-1304 (28%)	.047	.029-.066 (39%)	35.18	14.24	Largemouth bass
224	0-469 (109%)	.012	.000-.029 (136%)	7.74	3.13	Redear sunfish
38	0-95 (151%)	.001	.000-.004 (166%)	1.31	0.53	Walleye
21	0-48 (132%)	.000	.000-.001 (126%)	0.71	0.29	Warmouth
2	0-12 (430%)	.000	.000-.001 (430%)	0.08	0.03	White bass
3565	1972-5159 (45%)	.205	.108-.302 (47%)	123.22	49.87	White crappie
234	57-412 (76%)	.013	.000-.029 (125%)	8.10	3.28	Yellow bullhead
156	0-319 (104%)	.004	.001-.007 (84%)	5.40	2.19	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2437	2069-2805	(15%)	.147	.114-.179 (22%)	84.22	0.153	All species
0	0-0	(318%)	.000	.000-.000 (318%)	0.00	0.074	Black bullhead
18	0-46	(154%)	.001	.000-.003 (176%)	0.63	0.084	Black crappie
225	143-306	(36%)	.008	.005-.010 (34%)	7.76	0.062	Bluegill
			****	NOT RECORDED ****			Unidentified catfis
1430	1159-1701	(19%)	.099	.069-.130 (31%)	49.42	0.212	Channel catfish
4	0-14	(241%)	.000	.000-.000 (253%)	0.14	0.110	Green sunfish
474	333-615	(30%)	.024	.015-.033 (38%)	16.39	0.466	Largemouth bass
28	0-61	(120%)	.001	.000-.003 (113%)	0.96	0.124	Redear sunfish
11	0-28	(148%)	.000	.000-.001 (149%)	0.38	0.294	Walleye
2	0-4	(141%)	.000	.000-.000 (127%)	0.06	0.085	Warmouth
0	0-2	(430%)	.000	.000-.000 (318%)	0.02	0.190	White bass
175	72-278	(59%)	.009	.004-.014 (53%)	6.06	0.049	White crappie
52	6-97	(89%)	.003	.000-.007 (129%)	1.78	0.220	Yellow bullhead
17	0-48	(175%)	.000	.000-.001 (156%)	0.60	0.111	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5373	4560-6185	(15%)	.323	.251-.395 (22%)	75.14	0.338	All species
0	0-1	(318%)	.000	.000-.000 (430%)	0.00	0.162	Black bullhead
40	0-102	(154%)	.003	.000-.007 (176%)	0.56	0.185	Black crappie
495	315-675	(36%)	.017	.011-.023 (34%)	6.93	0.138	Bluegill
			****	NOT RECORDED ****			Unidentified catfis
3153	2556-3750	(19%)	.219	.151-.286 (31%)	44.10	0.467	Channel catfish
9	0-31	(241%)	.000	.000-.001 (253%)	0.13	0.243	Green sunfish
1046	735-1357	(30%)	.053	.033-.073 (38%)	14.63	1.027	Largemouth bass
61	0-135	(120%)	.003	.000-.006 (113%)	0.86	0.274	Redear sunfish
25	0-61	(148%)	.001	.000-.002 (149%)	0.34	0.649	Walleye
4	0-9	(141%)	.000	.000-.000 (127%)	0.05	0.187	Warmouth
1	0-5	(430%)	.000	.000-.000 (318%)	0.01	0.419	White bass
386	159-614	(59%)	.020	.009-.031 (53%)	5.40	0.108	White crappie
114	13-215	(89%)	.006	.000-.014 (129%)	1.59	0.485	Yellow bullhead
38	0-106	(175%)	.001	.000-.003 (156%)	0.54	0.245	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.1	2.7-3.4 (12%)		0.5	7.8	95
SHORE	1.8	1.6-2.1 (16%)		0.3	6.3	63
BOAT & SHORE	2.6	2.3-2.8 (10%)		0.3	7.8	158
MILES TRAVELED	28.4	24.2-32.7 (15%)		1	1000	748
SUCCESS RATING (1-10)	3.0	2.8-3.1 (6%)		1	10	746

*53 samples were from split interviews of completed trips.
18.7% of all 846 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 846 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	63	180	14	6						
SHORE INTERVIEWS	114	303	78	60	17	9		1		1

Table 10. Number of interviews (and %) per species sought for all interviews.

244 (28.8%)	ANY	All species
6 (0.7%)	BLG	Bluegill
1 (0.1%)	CAP	Carp
421 (49.8%)	CAT	Unidentified catfish
2 (0.2%)	CCF	Channel catfish
41 (4.8%)	CRP	Crappie spp.
104 (12.3%)	LMB	Largemouth bass
1 (0.1%)	RSF	Redear sunfish
18 (2.1%)	WAE	Walleye
8 (0.9%)	WHC	White crappie

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bluegill																
HARVEST	291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	261	3	15	5	-	4	-	-	-	-	-	-	-	-	-	3
Channel catfish																
HARVEST	225	21	13	11	8	1	12	-	-	-	-	-	-	-	-	-
RELEASE	227	14	9	16	10	4	2	-	4	-	1	-	1	-	-	3
Largemouth bass																
HARVEST	281	8	1	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	229	36	10	7	5	2	2	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	289	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	285	-	-	3	-	-	-	-	-	1	-	-	2	-	-	-
RELEASE	260	7	2	4	6	7	-	-	2	-	1	-	-	-	-	2
Yellow bullhead																
HARVEST	286	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	285	4	-	-	-	-	2	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 GLENDALE
 80 ACRES
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 306/693 = 44.2%

NUMBER OF INTERVIEWS: 975

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	1993	1590-2396 (20%)	25	20-30 (20%)	23%
	HOLIDAY	1868	1544-2191 (17%)	23	19-27 (17%)	47%
	TOTAL	3861	3344-4378 (13%)	48	42-55 (13%)	34%
SHORE	WEEKDAY	2696	2396-2997 (11%)	34	30-37 (11%)	23%
	HOLIDAY	2197	1847-2547 (16%)	27	23-32 (16%)	53%
	TOTAL	4893	4444-5343 (9%)	61	56-67 (9%)	36%
BOAT & SHORE	WEEKDAY	4689	4186-5192 (11%)	59	52-65 (11%)	23%
	HOLIDAY	4065	3600-4530 (11%)	51	45-57 (11%)	50%
	TOTAL	8754	8069-9439 (8%)	109	101-118 (8%)	35%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3984	3305-4663	(17%)	.367	.227-.506 (38%)	123.06	49.80	All species
1179	858-1501	(27%)	.138	.000-.291 (111%)	36.43	14.74	Black crappie
1293	928-1657	(28%)	.096	.062-.130 (35%)	39.92	16.16	Bluegill
1009	711-1307	(30%)	.086	.057-.114 (33%)	31.16	12.61	Channel catfish
			****	NOT RECORDED	****		Grass pickerel
102	48-156	(53%)	.008	.002-.015 (76%)	3.14	1.27	Green sunfish
159	50-269	(69%)	.009	.004-.014 (53%)	4.92	1.99	Largemouth bass
43	11-74	(74%)	.003	.000-.006 (95%)	1.32	0.54	Redear sunfish
170	51-289	(70%)	.014	.004-.024 (72%)	5.25	2.12	Warmouth
6	0-19	(223%)	.001	.000-.002 (223%)	0.18	0.07	White catfish
23	5-42	(79%)	.012	.000-.033 (179%)	0.73	0.29	Yellow bullhead

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1175	911-1439	(22%)	.117	.068-.166 (42%)	36.29	0.295	All species
278	197-360	(29%)	.035	.000-.081 (131%)	8.59	0.236	Black crappie
118	80-155	(32%)	.008	.005-.012 (38%)	3.63	0.091	Bluegill
651	442-860	(32%)	.061	.032-.089 (47%)	20.11	0.645	Channel catfish
			****	NOT RECORDED	****		Grass pickerel
8	3-13	(59%)	.001	.000-.001 (97%)	0.25	0.080	Green sunfish
74	12-135	(83%)	.004	.002-.007 (58%)	2.27	0.462	Largemouth bass
7	2-11	(69%)	.000	.000-.001 (89%)	0.21	0.158	Redear sunfish
30	7-53	(77%)	.002	.001-.004 (80%)	0.93	0.177	Warmouth
			****	NOT RECORDED	****		White catfish
9	2-17	(81%)	.005	.000-.014 (183%)	0.29	0.403	Yellow bullhead

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2590	2008-3172	(22%)	.258	.151-.365 (42%)	32.38	0.650	All species
613	434-793	(29%)	.077	.000-.178 (131%)	7.67	0.520	Black crappie
259	177-342	(32%)	.019	.011-.026 (38%)	3.24	0.201	Bluegill
1435	975-1896	(32%)	.134	.071-.196 (47%)	17.94	1.423	Channel catfish
			****	NOT RECORDED	****		Grass pickerel
18	7-29	(59%)	.002	.000-.003 (97%)	0.22	0.176	Green sunfish
162	27-297	(83%)	.009	.004-.015 (58%)	2.03	1.019	Largemouth bass
15	5-25	(69%)	.001	.000-.002 (89%)	0.19	0.347	Redear sunfish
66	15-117	(77%)	.006	.001-.010 (80%)	0.83	0.390	Warmouth
			****	NOT RECORDED	****		White catfish
21	4-38	(81%)	.011	.000-.031 (183%)	0.26	0.889	Yellow bullhead

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
11149	9482-12815	(15%)	1.009	.764-1.254 (24%)	344.35	139.36	All species
1609	1200-2019	(25%)	.205	.000-.468 (128%)	49.71	20.12	Black crappie
4202	3136-5267	(25%)	.313	.218-.408 (30%)	129.78	52.52	Bluegill
1482	964-2001	(35%)	.123	.086-.159 (30%)	45.79	18.53	Channel catfish
17	0-38	(118%)	.002	.000-.006 (183%)	0.54	0.22	Grass pickerel
330	221-438	(33%)	.031	.019-.043 (39%)	10.18	4.12	Green sunfish
2968	2428-3509	(18%)	.274	.222-.326 (19%)	91.68	37.10	Largemouth bass
45	13-77	(71%)	.003	.000-.006 (89%)	1.39	0.56	Redear sunfish
460	262-659	(43%)	.045	.027-.064 (41%)	14.22	5.75	Warmouth
10	0-25	(150%)	.001	.000-.003 (147%)	0.31	0.12	White catfish
24	6-43	(76%)	.012	.000-.033 (179%)	0.76	0.31	Yellow bullhead

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2375	1992-2757	(16%)	.233	.178-.289 (24%)	73.35	0.213	All species
318	233-404	(27%)	.040	.000-.092 (132%)	9.83	0.198	Black crappie
242	182-302	(25%)	.018	.012-.023 (29%)	7.48	0.058	Bluegill
776	539-1013	(31%)	.071	.042-.100 (41%)	23.97	0.523	Channel catfish
1	0-3	(108%)	.000	.000-.000 (166%)	0.04	0.082	Grass pickerel
21	14-27	(33%)	.002	.001-.003 (44%)	0.64	0.063	Green sunfish
931	748-1115	(20%)	.090	.070-.110 (22%)	28.77	0.314	Largemouth bass
7	2-12	(68%)	.000	.000-.001 (87%)	0.21	0.152	Redear sunfish
68	28-109	(60%)	.007	.003-.010 (50%)	2.11	0.148	Warmouth
			****	NOT RECORDED ****			White catfish
10	2-17	(78%)	.005	.000-.014 (183%)	0.30	0.399	Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5235	4392-6079	(16%)	.515	.392-.637 (24%)	65.44	0.470	All species
702	513-890	(27%)	.088	.000-.204 (132%)	8.77	0.436	Black crappie
534	401-667	(25%)	.039	.027-.050 (29%)	6.67	0.127	Bluegill
1711	1189-2232	(31%)	.157	.093-.221 (41%)	21.38	1.154	Channel catfish
3	0-7	(108%)	.000	.000-.001 (166%)	0.04	0.180	Grass pickerel
45	30-61	(33%)	.004	.002-.006 (44%)	0.57	0.138	Green sunfish
2053	1649-2457	(20%)	.199	.154-.243 (22%)	25.66	0.692	Largemouth bass
15	5-25	(68%)	.001	.000-.002 (87%)	0.19	0.336	Redear sunfish
151	61-241	(60%)	.015	.008-.023 (50%)	1.88	0.327	Warmouth
			****	NOT RECORDED ****			White catfish
22	5-38	(78%)	.011	.000-.031 (183%)	0.27	0.880	Yellow bullhead

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	2.9	2.7-3.1 (7%)		0.5	7.7	200
SHORE	1.8	1.7-1.9 (6%)		0.2	8.8	464
BOAT & SHORE	2.1	2.0-2.2 (5%)		0.2	8.8	664
MILES TRAVELED	16.9	14.8-19.1 (13%)		1	350	772
SUCCESS RATING (1-10)	4.8	4.5-5.1 (6%)		1	10	772

*177 samples were from split interviews of completed trips.
83.8% of all 792 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 11 out of 792 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	54	164	30	5	2					
SHORE INTERVIEWS	265	179	41	33	12	4	1	1		1

Table 10. Number of interviews (and %) per species sought for all interviews.

389 (49.1%)	ANY	All species
13 (1.6%)	BLC	Black crappie
20 (2.5%)	BLG	Bluegill
75 (9.5%)	CAT	Unidentified catfish
9 (1.1%)	CCF	Channel catfish
58 (7.3%)	CRP	Crappie spp.
222 (28.0%)	LMB	Largemouth bass
6 (0.8%)	SUN	Sunfish spp. excluding Crappie and Black Bass

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	1090	25	27	19	9	3	2	3	2	7	9	3	-	2	-	2
RELEASE	1134	32	13	10	6	7	-	-	1	-	-	-	-	-	-	-
Bluegill																
HARVEST	1072	59	33	3	8	8	5	4	3	4	-	3	-	-	-	1
RELEASE	1027	69	30	2	13	12	6	4	12	4	4	-	5	4	-	11
Channel catfish																
HARVEST	1079	58	27	13	12	1	12	1	-	-	-	-	-	-	-	-
RELEASE	1138	41	8	11	3	-	-	1	-	1	-	-	-	-	-	-
Grass pickerel																
HARVEST	1203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1196	5	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1175	20	3	5	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1142	48	8	3	-	-	1	-	1	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1179	8	9	2	2	1	2	-	-	-	-	-	-	-	-	-
RELEASE	835	186	61	45	26	16	11	11	1	5	1	2	3	-	-	-
Redear sunfish																
HARVEST	1191	9	3	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1202	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	1165	24	11	1	1	1	-	-	-	-	-	-	-	-	-	-
RELEASE	1125	65	8	3	1	1	-	-	-	-	-	-	-	-	-	-
White catfish																
HARVEST	1201	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1201	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	1193	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 HILLSBORO
 100 ACRES
 REGION 4, DISTRICT 15

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 290/693 = 41.8%

NUMBER OF INTERVIEWS: 735

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	2205	1646-2764 (25%)	22	16-28 (25%)	13%
	HOLIDAY	3056	2645-3467 (13%)	30	26-35 (13%)	27%
	TOTAL	5261	4567-5955 (13%)	52	46-59 (13%)	21%
SHORE	WEEKDAY	2244	1791-2697 (20%)	22	18-27 (20%)	13%
	HOLIDAY	1875	1507-2243 (20%)	19	15-22 (20%)	20%
	TOTAL	4119	3535-4703 (14%)	41	35-47 (14%)	16%
BOAT & SHORE	WEEKDAY	4449	3730-5169 (16%)	44	37-52 (16%)	13%
	HOLIDAY	4931	4379-5483 (11%)	49	44-55 (11%)	25%
	TOTAL	9380	8473-10287 (10%)	94	84-103 (10%)	19%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4729	3365-6094	(29%)	.352	.244-.459 (31%)	116.51	47.15	All species
			****	NOT RECORDED			Black bullhead
174	68-280	(61%)	.008	.003-.012 (64%)	4.28	1.73	Black crappie
739	315-1163	(57%)	.080	.000-.172 (115%)	18.20	7.37	Bluegill
1215	865-1564	(29%)	.104	.069-.139 (34%)	29.92	12.11	Channel catfish
9	0-29	(218%)	.000	.000-.001 (220%)	0.23	0.09	Flathead catfish
13	0-31	(147%)	.001	.000-.002 (108%)	0.31	0.13	Freshwater drum
2	0-9	(245%)	.000	.000-.000 (245%)	0.06	0.02	Green sunfish
			****	NOT RECORDED			Gizzard shad
103	46-159	(55%)	.008	.003-.014 (63%)	2.53	1.03	Largemouth bass
3	0-12	(278%)	.000	.000-.000 (318%)	0.08	0.03	Redear sunfish
			****	NOT RECORDED			White bass
2354	1067-3641	(55%)	.129	.069-.189 (47%)	57.99	23.47	White crappie
55	0-174	(215%)	.011	.000-.034 (210%)	1.36	0.55	Yellow bullhead
62	0-174	(180%)	.011	.000-.032 (196%)	1.54	0.62	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1045	800-1290	(23%)	.086	.053-.119 (38%)	25.75	0.221	All species
			****	NOT RECORDED			Black bullhead
28	4-52	(84%)	.001	.000-.002 (89%)	0.70	0.163	Black crappie
78	31-125	(61%)	.009	.000-.019 (112%)	1.91	0.105	Bluegill
510	337-684	(34%)	.049	.019-.080 (62%)	12.57	0.420	Channel catfish
30	0-96	(218%)	.001	.000-.004 (218%)	0.75	3.295	Flathead catfish
20	0-54	(170%)	.001	.000-.002 (114%)	0.49	1.590	Freshwater drum
0	0-1	(236%)	.000	.000-.000 (236%)	0.01	0.108	Green sunfish
			****	NOT RECORDED			Gizzard shad
73	20-127	(73%)	.005	.002-.007 (63%)	1.80	0.712	Largemouth bass
1	0-3	(318%)	.000	.000-.000 (318%)	0.02	0.250	Redear sunfish
			****	NOT RECORDED			White bass
285	125-444	(56%)	.016	.008-.023 (48%)	7.02	0.121	White crappie
16	0-51	(209%)	.003	.000-.010 (204%)	0.40	0.296	Yellow bullhead
3	0-8	(163%)	.001	.000-.002 (179%)	0.08	0.049	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2304	1764-2845	(23%)	.189	.117-.262 (38%)	22.97	0.487	All species
			****	NOT RECORDED	****		Black bullhead
63	10-115	(84%)	.003	.000-.005 (89%)	0.62	0.360	Black crappie
171	67-275	(61%)	.020	.000-.042 (112%)	1.71	0.232	Bluegill
1125	743-1507	(34%)	.109	.041-.176 (62%)	11.21	0.926	Channel catfish
67	0-212	(218%)	.003	.000-.009 (218%)	0.67	7.264	Flathead catfish
44	0-119	(170%)	.002	.000-.005 (114%)	0.44	3.505	Freshwater drum
1	0-2	(236%)	.000	.000-.000 (236%)	0.01	0.238	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
161	44-279	(73%)	.010	.004-.017 (63%)	1.61	1.570	Largemouth bass
2	0-7	(278%)	.000	.000-.000 (318%)	0.02	0.552	Redear sunfish
			****	NOT RECORDED	****		White bass
628	276-980	(56%)	.034	.018-.051 (48%)	6.26	0.267	White crappie
36	0-112	(209%)	.007	.000-.022 (204%)	0.36	0.652	Yellow bullhead
7	0-18	(163%)	.001	.000-.003 (179%)	0.07	0.109	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
14377	11962-16792	(17%)	1.059	.845-1.273 (20%)	354.19	143.34	All species
5	0-14	(153%)	.000	.000-.001 (154%)	0.14	0.05	Black bullhead
385	219-551	(43%)	.021	.006-.036 (73%)	9.48	3.84	Black crappie
2877	1740-4014	(40%)	.261	.093-.429 (64%)	70.88	28.69	Bluegill
2863	2276-3450	(21%)	.223	.169-.277 (24%)	70.54	28.55	Channel catfish
9	0-29	(218%)	.000	.000-.001 (220%)	0.23	0.09	Flathead catfish
72	0-183	(154%)	.006	.000-.015 (144%)	1.78	0.72	Freshwater drum
23	0-71	(212%)	.001	.000-.003 (220%)	0.56	0.23	Green sunfish
23	0-121	(430%)	.005	.000-.020 (318%)	0.56	0.23	Gizzard shad
2364	1829-2899	(23%)	.144	.109-.178 (24%)	58.25	23.57	Largemouth bass
3	0-12	(278%)	.000	.000-.000 (318%)	0.08	0.03	Redear sunfish
8	0-21	(155%)	.000	.000-.001 (164%)	0.20	0.08	White bass
5272	3410-7133	(35%)	.351	.224-.478 (36%)	129.87	52.56	White crappie
68	0-189	(177%)	.012	.000-.035 (192%)	1.68	0.68	Yellow bullhead
404	210-597	(48%)	.034	.011-.057 (67%)	9.95	4.03	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2558	2120-2996	(17%)	.188	.147-.229 (22%)	63.02	0.178	All species
1	0-2	(170%)	.000	.000-.000 (175%)	0.02	0.128	Black bullhead
47	21-73	(56%)	.003	.001-.004 (64%)	1.15	0.121	Black crappie
175	95-254	(45%)	.016	.004-.029 (76%)	4.30	0.061	Bluegill
693	509-876	(27%)	.062	.031-.094 (50%)	17.06	0.242	Channel catfish
30	0-96	(218%)	.001	.000-.004 (218%)	0.75	3.295	Flathead catfish
60	0-124	(107%)	.006	.000-.020 (209%)	1.47	0.830	Freshwater drum
1	0-2	(156%)	.000	.000-.000 (170%)	0.02	0.028	Green sunfish
1	0-8	(430%)	.000	.000-.001 (318%)	0.04	0.065	Gizzard shad
1023	708-1337	(31%)	.060	.039-.081 (35%)	25.19	0.432	Largemouth bass
1	0-3	(318%)	.000	.000-.000 (318%)	0.02	0.250	Redear sunfish
5	0-17	(212%)	.000	.000-.001 (214%)	0.13	0.667	White bass
481	297-666	(38%)	.033	.019-.047 (43%)	11.86	0.091	White crappie
18	0-53	(187%)	.003	.000-.010 (194%)	0.45	0.269	Yellow bullhead
23	11-34	(51%)	.002	.001-.003 (60%)	0.56	0.056	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
5639	4674-6605	(17%)	.414	.323-.505 (22%)	56.22	0.392	All species
2	0-4	(170%)	.000	.000-.000 (175%)	0.02	0.283	Black bullhead
103	46-160	(56%)	.006	.002-.009 (64%)	1.03	0.268	Black crappie
385	210-560	(45%)	.036	.009-.064 (76%)	3.84	0.134	Bluegill
1527	1122-1932	(27%)	.138	.069-.206 (50%)	15.22	0.533	Channel catfish
67	0-212	(218%)	.003	.000-.009 (218%)	0.67	7.264	Flathead catfish
132	0-274	(107%)	.014	.000-.043 (209%)	1.32	1.831	Freshwater drum
1	0-4	(156%)	.000	.000-.000 (170%)	0.01	0.061	Green sunfish
3	0-17	(430%)	.001	.000-.004 (430%)	0.03	0.142	Gizzard shad
2254	1561-2947	(31%)	.133	.087-.179 (35%)	22.48	0.953	Largemouth bass
2	0-7	(278%)	.000	.000-.000 (318%)	0.02	0.552	Redear sunfish
12	0-37	(215%)	.000	.000-.001 (214%)	0.12	1.471	White bass
1061	655-1467	(38%)	.072	.041-.103 (43%)	10.58	0.201	White crappie
41	0-116	(187%)	.008	.000-.022 (194%)	0.40	0.593	Yellow bullhead
50	25-75	(51%)	.004	.002-.007 (60%)	0.50	0.124	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	2.1	1.6-2.6 (25%)	0.3	7.2	27
SHORE	1.1	0.8-1.5 (30%)	0.2	3.9	26
BOAT & SHORE	1.6	1.3-2.0 (20%)	0.2	7.2	53
MILES TRAVELED	21.0	16.5-25.4 (21%)	1	1200	657
SUCCESS RATING (1-10)	3.9	3.7-4.0 (5%)	1	10	657

*4 samples were from split interviews of completed trips.
7.3% of all 731 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 731 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	121	202	58	19	2					
SHORE INTERVIEWS	157	94	48	24	4		2			

Table 10. Number of interviews (and %) per species sought for all interviews.

314 (43.0%)	ANY	All species
2 (0.3%)	BLC	Black crappie
20 (2.7%)	BLG	Bluegill
166 (22.7%)	CCF	Channel catfish
52 (7.1%)	CRP	Crappie spp.
176 (24.1%)	LMB	Largemouth bass
1 (0.1%)	WHC	White crappie

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	80	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	79	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	76	2	-	-	-	-	-	-	3	-	-	-	-	-	-	-
RELEASE	72	4	2	2	-	-	1	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	77	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	74	5	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	79	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	80	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	77	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	50	15	5	5	4	1	1	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	81	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	72	3	-	-	-	6	-	-	-	-	-	-	-	-	-	-
RELEASE	61	3	7	4	-	-	4	-	-	-	-	-	1	-	-	1
Yellow bass																
HARVEST	79	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-
RELEASE	75	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 HOMER LAKE
 81 ACRES
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 293/693 = 42.3%

NUMBER OF INTERVIEWS: 934

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	2237	1760-2713 (21%)	28	22-33 (21%)	17%
	HOLIDAY	2565	1995-3135 (22%)	32	25-39 (22%)	32%
	TOTAL	4802	4059-5545 (15%)	59	50-68 (15%)	25%
SHORE	WEEKDAY	6505	5603-7407 (14%)	80	69-91 (14%)	12%
	HOLIDAY	7099	6106-8092 (14%)	88	75-100 (14%)	15%
	TOTAL	13604	12262-14945 (10%)	168	151-185 (10%)	14%
BOAT & SHORE	WEEKDAY	8741	7721-9762 (12%)	108	95-121 (12%)	13%
	HOLIDAY	9664	8519-10809 (12%)	119	105-133 (12%)	20%
	TOTAL	18406	16872-19939 (8%)	227	208-246 (8%)	17%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
11403	8120-14685 (29%)	.372	.241-.503 (35%)	347.85	140.77	All species
31	0-88 (180%)	.000	.000-.001 (142%)	0.95	0.39	Black bullhead
498	102-895 (80%)	.022	.000-.059 (165%)	15.21	6.15	Black crappie
435	117-754 (73%)	.013	.002-.024 (84%)	13.28	5.38	Bluegill
8	0-18 (135%)	.001	.000-.004 (198%)	0.24	0.10	Carp
948	588-1308 (38%)	.032	.020-.044 (38%)	28.92	11.70	Channel catfish
11	0-42 (278%)	.000	.000-.001 (278%)	0.34	0.14	Crappie spp.
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
330	0-793 (140%)	.007	.000-.017 (147%)	10.07	4.08	Largemouth bass
		****	NOT RECORDED ****			Northern pike
3	0-9 (236%)	.000	.000-.001 (236%)	0.08	0.03	Redear sunfish
9138	6073-12203 (34%)	.296	.193-.400 (35%)	278.76	112.81	White crappie
		****	NOT RECORDED ****			Yellow bullhead

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1687	879-2494 (48%)	.066	.036-.097 (46%)	51.45	0.148	All species
10	0-24 (144%)	.000	.000-.000 (161%)	0.29	0.309	Black bullhead
48	8-87 (83%)	.001	.000-.003 (139%)	1.46	0.096	Black crappie
24	4-44 (84%)	.001	.000-.001 (87%)	0.74	0.056	Bluegill
29	0-66 (126%)	.012	.000-.038 (225%)	0.90	3.797	Carp
569	351-787 (38%)	.021	.013-.030 (41%)	17.36	0.600	Channel catfish
6	0-24 (318%)	.000	.000-.001 (318%)	0.18	0.528	Crappie spp.
		****	NOT RECORDED ****			Golden shiner
		****	NOT RECORDED ****			Green sunfish
286	0-881 (208%)	.006	.000-.018 (211%)	8.73	0.867	Largemouth bass
		****	NOT RECORDED ****			Northern pike
0	0-2 (236%)	.000	.000-.000 (245%)	0.01	0.186	Redear sunfish
714	468-960 (35%)	.025	.015-.035 (41%)	21.78	0.078	White crappie
		****	NOT RECORDED ****			Yellow bullhead

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3718	1938-5499	(48%)	.147	.079-.214 (46%)	45.91	0.326	All species
21	0-52	(144%)	.000	.000-.001 (161%)	0.26	0.681	Black bullhead
105	18-192	(83%)	.003	.000-.007 (139%)	1.30	0.211	Black crappie
53	9-98	(84%)	.002	.000-.003 (87%)	0.66	0.123	Bluegill
65	0-146	(126%)	.026	.000-.083 (225%)	0.80	8.372	Carp
1254	773-1736	(38%)	.047	.028-.067 (41%)	15.49	1.323	Channel catfish
13	0-54	(318%)	.000	.000-.002 (318%)	0.16	1.163	Crappie spp.
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
631	0-1943	(208%)	.013	.000-.040 (211%)	7.79	1.912	Largemouth bass
			****	NOT RECORDED ****			Northern pike
1	0-4	(245%)	.000	.000-.000 (245%)	0.01	0.410	Redear sunfish
1574	1031-2117	(35%)	.055	.033-.078 (41%)	19.43	0.172	White crappie
			****	NOT RECORDED ****			Yellow bullhead

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
47779	41417-54142	(13%)	1.613	1.409-1.817(13%)	1457.56	589.87	All species
109	5-212	(95%)	.002	.000-.005 (90%)	3.31	1.34	Black bullhead
946	401-1490	(58%)	.032	.000-.068 (114%)	28.85	11.67	Black crappie
15607	12758-18456	(18%)	.522	.409-.635 (22%)	476.11	192.68	Bluegill
100	20-179	(80%)	.003	.000-.006 (86%)	3.04	1.23	Carp
2650	2086-3214	(21%)	.111	.079-.143 (29%)	80.84	32.72	Channel catfish
54	2-106	(96%)	.002	.000-.005 (162%)	1.65	0.67	Crappie spp.
108	0-370	(241%)	.003	.000-.006 (121%)	3.31	1.34	Golden shiner
80	0-193	(140%)	.007	.000-.020 (190%)	2.46	0.99	Green sunfish
5525	4536-6514	(18%)	.292	.226-.359 (23%)	168.54	68.21	Largemouth bass
29	7-51	(75%)	.002	.000-.003 (105%)	0.90	0.36	Northern pike
3	0-9	(236%)	.000	.000-.001 (236%)	0.08	0.03	Redear sunfish
22499	17922-27076	(20%)	.630	.508-.752 (19%)	686.36	277.76	White crappie
70	0-209	(199%)	.007	.000-.021 (213%)	2.13	0.86	Yellow bullhead

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
5461	4501-6420 (18%)	.250	.200-.300 (20%)	166.58	0.114	All species
41	0-92 (123%)	.001	.000-.002 (121%)	1.26	0.381	Black bullhead
74	26-122 (64%)	.002	.000-.004 (105%)	2.26	0.078	Black crappie
858	683-1033 (20%)	.029	.022-.036 (24%)	26.17	0.055	Bluegill
340	6-675 (98%)	.017	.000-.044 (154%)	10.39	3.415	Carp
912	678-1146 (26%)	.037	.024-.049 (34%)	27.82	0.344	Channel catfish
9	0-25 (196%)	.000	.000-.001 (210%)	0.26	0.158	Crappie spp.
5	0-16 (204%)	.000	.000-.000 (100%)	0.16	0.047	Golden shiner
4	0-10 (129%)	.000	.000-.001 (184%)	0.13	0.053	Green sunfish
1891	1222-2561 (35%)	.122	.079-.165 (35%)	57.70	0.342	Largemouth bass
18	0-36 (98%)	.001	.000-.003 (151%)	0.55	0.614	Northern pike
0	0-2 (236%)	.000	.000-.000 (245%)	0.01	0.186	Redear sunfish
1301	1010-1591 (22%)	.039	.028-.049 (27%)	39.68	0.058	White crappie
6	0-20 (202%)	.001	.000-.002 (215%)	0.20	0.093	Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
12039	9923-14154 (18%)	.551	.440-.662 (20%)	148.63	0.252	All species
91	0-203 (123%)	.002	.000-.004 (121%)	1.13	0.839	Black bullhead
164	58-269 (64%)	.004	.000-.008 (105%)	2.02	0.173	Black crappie
1891	1505-2278 (20%)	.065	.049-.080 (24%)	23.35	0.121	Bluegill
751	13-1489 (98%)	.038	.000-.097 (154%)	9.27	7.528	Carp
2010	1495-2526 (26%)	.081	.053-.108 (34%)	24.82	0.759	Channel catfish
19	0-56 (196%)	.001	.000-.002 (210%)	0.23	0.347	Crappie spp.
11	0-34 (204%)	.000	.000-.001 (100%)	0.14	0.104	Golden shiner
9	0-22 (129%)	.001	.000-.002 (184%)	0.12	0.117	Green sunfish
4170	2694-5645 (35%)	.270	.175-.365 (35%)	51.48	0.755	Largemouth bass
40	1-79 (98%)	.003	.000-.007 (151%)	0.49	1.354	Northern pike
1	0-4 (245%)	.000	.000-.000 (245%)	0.01	0.410	Redear sunfish
2867	2227-3508 (22%)	.086	.062-.109 (27%)	35.40	0.127	White crappie
14	0-43 (202%)	.001	.000-.004 (215%)	0.18	0.205	Yellow bullhead

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	4.4	3.8-4.9 (13%)	0.8	8.5	57
SHORE	2.3	1.7-2.8 (25%)	0.5	8.0	46
BOAT & SHORE	3.4	3.0-3.9 (13%)	0.5	8.5	103
MILES TRAVELED	15.8	15.1-16.4 (4%)	1	90	754
SUCCESS RATING (1-10)	4.2	4.1-4.4 (4%)	1	10	744

*47 samples were from split interviews of completed trips.
11.6% of all 886 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 10 out of 886 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	105	163	25	4						
SHORE INTERVIEWS	277	196	78	27	1	5	1	2	1	1

Table 10. Number of interviews (and %) per species sought for all interviews.

218 (24.6%)	ANY	All species
22 (2.5%)	BLG	Bluegill
16 (1.8%)	CAP	Carp
209 (23.6%)	CCF	Channel catfish
178 (20.1%)	CRP	Crappie spp.
168 (19.0%)	LMB	Largemouth bass
75 (8.5%)	WHC	White crappie

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	160	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
RELEASE	162	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	121	5	6	5	6	5	6	-	3	1	2	2	1	-	-	-
Carp																
HARVEST	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	161	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	153	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	143	13	5	2	-	-	-	-	-	-	-	-	-	-	-	-
Crappie spp.																
HARVEST	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	159	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Golden shiner																
HARVEST	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	162	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	162	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	103	24	15	3	4	3	6	-	1	-	-	1	-	-	-	3
Northern pike																
HARVEST	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	162	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	148	4	-	-	2	-	2	-	1	-	-	-	-	2	-	4
RELEASE	136	9	8	2	-	1	2	-	3	-	2	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 MCLEANSBORO
 75 ACRES
 REGION 5, DISTRICT 20

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 303/693 = 43.7%

NUMBER OF INTERVIEWS: 699

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	1144	826-1463 (28%)	15	11-20 (28%)	24%
	HOLIDAY	1921	749-3092 (61%)	26	10-41 (61%)	54%
	TOTAL	3065	1861-4269 (39%)	41	25-57 (39%)	43%
SHORE	WEEKDAY	1961	1490-2432 (24%)	26	20-32 (24%)	17%
	HOLIDAY	1513	1114-1911 (26%)	20	15-25 (26%)	39%
	TOTAL	3474	2869-4079 (17%)	46	38-54 (17%)	27%
BOAT & SHORE	WEEKDAY	3106	2537-3674 (18%)	41	34-49 (18%)	20%
	HOLIDAY	3433	2213-4653 (36%)	46	30-62 (36%)	48%
	TOTAL	6539	5208-7871 (20%)	87	69-105 (20%)	34%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
8055	4672-11439 (42%)		.604	.298-.909 (51%)	265.40	107.41	All species
526	0-1182 (125%)		.058	.000-.181 (211%)	17.34	7.02	Black crappie
1049	473-1625 (55%)		.139	.034-.244 (76%)	34.56	13.99	Bluegill
			****	NOT RECORDED ****			Brown bullhead
1210	920-1501 (24%)		.090	.061-.120 (32%)	39.87	16.14	Channel catfish
			****	NOT RECORDED ****			Flathead catfish
16	0-42 (161%)		.002	.000-.004 (161%)	0.53	0.22	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
26	5-48 (83%)		.004	.000-.008 (127%)	0.87	0.35	Largemouth bass
131	0-284 (117%)		.059	.000-.160 (173%)	4.32	1.75	Longear sunfish
39	0-80 (103%)		.023	.000-.067 (186%)	1.30	0.53	Redear sunfish
45	0-155 (246%)		.004	.000-.013 (259%)	1.48	0.60	Warmouth
4943	1919-7967 (61%)		.212	.086-.338 (59%)	162.86	65.91	White crappie
3	0-10 (209%)		.000	.000-.001 (209%)	0.11	0.04	Yellow bullhead
			****	NOT RECORDED ****			Yellow perch
66	0-221 (236%)		.013	.000-.044 (245%)	2.16	0.88	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1227	807-1647 (34%)		.079	.058-.101 (27%)	40.43	0.152	All species
47	1-94 (99%)		.004	.000-.012 (196%)	1.56	0.090	Black crappie
93	42-144 (55%)		.008	.004-.013 (56%)	3.06	0.088	Bluegill
			****	NOT RECORDED ****			Brown bullhead
588	448-728 (24%)		.044	.030-.059 (33%)	19.37	0.486	Channel catfish
			****	NOT RECORDED ****			Flathead catfish
2	0-7 (189%)		.000	.000-.001 (189%)	0.08	0.144	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
22	2-41 (90%)		.003	.000-.006 (121%)	0.71	0.812	Largemouth bass
12	0-29 (140%)		.003	.000-.008 (132%)	0.40	0.093	Longear sunfish
7	0-14 (112%)		.001	.000-.003 (131%)	0.22	0.173	Redear sunfish
7	0-25 (260%)		.001	.000-.002 (275%)	0.23	0.156	Warmouth
441	76-806 (83%)		.013	.006-.020 (51%)	14.52	0.089	White crappie
5	0-17 (209%)		.001	.000-.002 (209%)	0.18	1.595	Yellow bullhead
			****	NOT RECORDED ****			Yellow perch
3	0-11 (245%)		.001	.000-.002 (236%)	0.11	0.050	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
2705	1779-3632	(34%)	.175	.128-.222 (27%)	36.07	0.336	All species
104	1-207	(99%)	.009	.000-.027 (196%)	1.39	0.198	Black crappie
204	92-316	(55%)	.018	.008-.028 (56%)	2.73	0.195	Bluegill
			****	NOT RECORDED ****			Brown bullhead
1296	988-1604	(24%)	.098	.065-.130 (33%)	17.28	1.071	Channel catfish
			****	NOT RECORDED ****			Flathead catfish
5	0-15	(189%)	.001	.000-.002 (189%)	0.07	0.317	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
47	5-90	(90%)	.006	.000-.013 (121%)	0.63	1.791	Largemouth bass
27	0-65	(140%)	.007	.000-.017 (132%)	0.36	0.206	Longear sunfish
15	0-32	(112%)	.003	.000-.007 (131%)	0.20	0.381	Redear sunfish
15	0-55	(260%)	.001	.000-.005 (275%)	0.21	0.343	Warmouth
972	167-1776	(83%)	.029	.014-.044 (51%)	12.95	0.197	White crappie
12	0-37	(210%)	.001	.000-.004 (209%)	0.16	3.516	Yellow bullhead
			****	NOT RECORDED ****			Yellow perch
7	0-25	(245%)	.001	.000-.005 (236%)	0.10	0.110	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
16824	10755-22893	(36%)	1.223	.836-1.611(32%)	554.29	224.32	All species
790	57-1523	(93%)	.074	.000-.199 (171%)	26.03	10.53	Black crappie
4373	2516-6229	(42%)	.305	.185-.426 (39%)	144.06	58.30	Bluegill
29	0-63	(118%)	.005	.000-.011 (134%)	0.95	0.39	Brown bullhead
2362	1774-2951	(25%)	.189	.135-.244 (29%)	77.83	31.50	Channel catfish
3	0-11	(257%)	.001	.000-.002 (278%)	0.10	0.04	Flathead catfish
21	0-49	(131%)	.002	.000-.004 (154%)	0.70	0.28	Green sunfish
2	0-8	(236%)	.000	.000-.000 (245%)	0.08	0.03	Gizzard shad
914	568-1259	(38%)	.092	.058-.126 (37%)	30.10	12.18	Largemouth bass
151	0-305	(102%)	.059	.000-.160 (172%)	4.98	2.02	Longear sunfish
105	26-183	(75%)	.025	.000-.068 (175%)	3.45	1.40	Redear sunfish
159	35-283	(78%)	.006	.000-.016 (155%)	5.25	2.12	Warmouth
7495	4078-10912	(46%)	.425	.232-.618 (45%)	246.94	99.94	White crappie
113	60-167	(47%)	.010	.005-.015 (51%)	3.74	1.51	Yellow bullhead
7	0-19	(168%)	.000	.000-.001 (156%)	0.24	0.10	Yellow perch
299	94-504	(69%)	.031	.000-.063 (106%)	9.84	3.98	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2155	1446-2863	(33%)	.154	.125-.184 (19%)	70.99	0.128	All species
64	12-117	(82%)	.005	.000-.014 (160%)	2.12	0.081	Black crappie
313	162-463	(48%)	.018	.011-.025 (38%)	10.30	0.071	Bluegill
3	0-6	(116%)	.000	.000-.001 (131%)	0.09	0.094	Brown bullhead
768	602-934	(22%)	.059	.042-.075 (28%)	25.31	0.325	Channel catfish
5	0-20	(257%)	.001	.000-.003 (257%)	0.18	1.821	Flathead catfish
3	0-7	(171%)	.000	.000-.001 (186%)	0.08	0.121	Green sunfish
0	0-1	(245%)	.000	.000-.000 (236%)	0.01	0.062	Gizzard shad
361	242-481	(33%)	.040	.026-.055 (36%)	11.90	0.395	Largemouth bass
14	0-32	(122%)	.003	.000-.008 (131%)	0.47	0.095	Longear sunfish
16	4-28	(77%)	.002	.000-.004 (110%)	0.52	0.150	Redear sunfish
18	1-35	(92%)	.001	.000-.002 (178%)	0.60	0.113	Warmouth
533	159-907	(70%)	.019	.012-.027 (39%)	17.57	0.071	White crappie
31	14-47	(55%)	.003	.001-.005 (67%)	1.01	0.270	Yellow bullhead
1	0-1	(158%)	.000	.000-.000 (150%)	0.02	0.074	Yellow perch
25	9-42	(66%)	.002	.000-.004 (88%)	0.83	0.084	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4751	3189-6313	(33%)	.340	.275-.406 (19%)	63.34	0.282	All species
142	25-258	(82%)	.012	.000-.030 (160%)	1.89	0.179	Black crappie
689	357-1021	(48%)	.040	.024-.055 (38%)	9.19	0.158	Bluegill
6	0-13	(116%)	.001	.000-.002 (131%)	0.08	0.208	Brown bullhead
1694	1328-2060	(22%)	.130	.094-.165 (28%)	22.59	0.717	Channel catfish
12	0-43	(257%)	.002	.000-.008 (257%)	0.16	4.016	Flathead catfish
6	0-15	(171%)	.001	.000-.002 (186%)	0.08	0.266	Green sunfish
0	0-1	(245%)	.000	.000-.000 (245%)	0.00	0.137	Gizzard shad
796	533-1060	(33%)	.089	.057-.121 (36%)	10.61	0.871	Largemouth bass
32	0-70	(122%)	.007	.000-.017 (131%)	0.42	0.210	Longear sunfish
35	8-61	(77%)	.004	.000-.008 (110%)	0.46	0.330	Redear sunfish
40	3-76	(92%)	.002	.000-.005 (178%)	0.53	0.250	Warmouth
1176	351-2000	(70%)	.043	.026-.059 (39%)	15.68	0.157	White crappie
67	30-105	(55%)	.007	.002-.012 (67%)	0.90	0.594	Yellow bullhead
1	0-3	(158%)	.000	.000-.000 (150%)	0.02	0.163	Yellow perch
55	19-92	(66%)	.004	.000-.008 (88%)	0.74	0.186	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	4.2	3.9-4.5 (8%)	0.6	8.2	159
SHORE	1.9	1.6-2.2 (13%)	0.2	7.0	151
BOAT & SHORE	3.1	2.8-3.3 (8%)	0.2	8.2	310
MILES TRAVELED	19.0	11.2-26.9 (41%)	1	1100	521
SUCCESS RATING (1-10)	3.7	3.4-3.9 (7%)	1	10	521

*145 samples were from split interviews of completed trips.
56.2% of all 552 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 552 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	56	122	18		1					
SHORE INTERVIEWS	171	135	27	15	6					1

Table 10. Number of interviews (and %) per species sought for all interviews.

163 (29.5%)	ANY	All species
16 (2.9%)	BLG	Bluegill
109 (19.7%)	CAT	Unidentified catfish
80 (14.5%)	CCF	Channel catfish
100 (18.1%)	CRP	Crappie spp.
83 (15.0%)	LMB	Largemouth bass
1 (0.2%)	RSF	Redear sunfish

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	493	22	9	2	2	-	-	6	2	-	-	-	-	-	-	2
RELEASE	526	1	-	8	-	2	-	-	-	-	1	-	-	-	-	-
Bluegill																
HARVEST	506	7	4	6	11	1	-	-	-	-	2	-	-	-	-	1
RELEASE	362	53	21	11	11	6	2	3	16	-	6	-	-	16	-	31
Brown bullhead																
HARVEST	538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	535	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	441	27	22	15	12	17	4	-	-	-	-	-	-	-	-	-
RELEASE	413	50	25	24	6	7	-	1	4	-	3	2	-	-	-	3
Green sunfish																
HARVEST	536	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	536	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	525	9	3	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	398	80	33	9	7	3	4	2	-	2	-	-	-	-	-	-
Longear sunfish																
HARVEST	534	1	-	-	-	-	-	1	-	-	1	-	-	-	1	-
RELEASE	534	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	531	6	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	531	3	-	-	-	2	2	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	534	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	504	28	2	4	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	412	3	4	14	10	9	4	-	3	-	6	-	8	2	6	57
RELEASE	473	8	9	5	3	13	3	3	4	1	3	-	2	-	-	11
Yellow bullhead																
HARVEST	537	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	516	10	6	4	-	2	-	-	-	-	-	-	-	-	-	-

Table 11.(cont.) Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Yellow perch																
HARVEST	538	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	536	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	537	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
RELEASE	503	17	4	7	-	5	-	-	-	-	2	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 LAKE MINGO
 172 ACRES
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 303/693 = 43.7%

NUMBER OF INTERVIEWS: 2665

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	10086	8079-12094 (20%)	59	47-70 (20%)	20%
	HOLIDAY	11632	10308-12956 (11%)	68	60-75 (11%)	45%
	TOTAL	21718	19397-24039 (11%)	126	113-140 (11%)	34%
SHORE	WEEKDAY	9261	8421-10100 (9%)	54	49-59 (9%)	14%
	HOLIDAY	6194	5569-6820 (10%)	36	32-40 (10%)	26%
	TOTAL	15455	14408-16502 (7%)	90	84-96 (7%)	19%
BOAT & SHORE	WEEKDAY	19347	17264-21430 (11%)	112	100-125 (11%)	17%
	HOLIDAY	17826	16362-19290 (8%)	104	95-112 (8%)	39%
	TOTAL	37173	34627-39719 (7%)	216	201-231 (7%)	27%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
23967	20513-27421 (14%)	.612	.548-.675 (10%)	344.32	139.34	All species
		****	NOT RECORDED			Black bullhead
1414	1079-1750 (24%)	.034	.019-.050 (44%)	20.32	8.22	Black crappie
9181	6821-11540 (26%)	.192	.167-.217 (13%)	131.89	53.38	Bluegill
		****	NOT RECORDED			Carp
2346	2023-2668 (14%)	.061	.050-.072 (18%)	33.70	13.64	Channel catfish
		****	NOT RECORDED			Golden shiner
54	17-92 (68%)	.001	.000-.001 (78%)	0.78	0.32	Green sunfish
340	219-461 (36%)	.008	.005-.011 (39%)	4.88	1.97	Largemouth bass
190	123-257 (35%)	.004	.002-.006 (43%)	2.73	1.11	Longear sunfish
		****	NOT RECORDED			Muskellunge
9	0-25 (173%)	.000	.000-.000 (167%)	0.13	0.05	Northern pike
188	120-256 (36%)	.004	.002-.006 (50%)	2.70	1.09	Redear sunfish
7	0-22 (231%)	.000	.000-.000 (231%)	0.09	0.04	Smallmouth bass
9201	7943-10458 (14%)	.276	.229-.322 (17%)	132.18	53.49	White crappie
45	0-97 (115%)	.001	.000-.002 (112%)	0.65	0.26	Yellow bullhead
9	0-21 (129%)	.000	.000-.000 (169%)	0.13	0.05	Yellow perch
983	755-1211 (23%)	.031	.022-.040 (28%)	14.12	5.71	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3526	3136-3915 (11%)	.090	.081-.099 (10%)	50.65	0.147	All species
		****	NOT RECORDED			Black bullhead
218	166-271 (24%)	.005	.003-.007 (43%)	3.14	0.154	Black crappie
680	504-856 (26%)	.014	.012-.016 (13%)	9.77	0.074	Bluegill
		****	NOT RECORDED			Carp
1251	1066-1436 (15%)	.033	.027-.039 (18%)	17.98	0.533	Channel catfish
		****	NOT RECORDED			Golden shiner
4	1-6 (65%)	.000	.000-.000 (71%)	0.05	0.067	Green sunfish
211	52-370 (75%)	.004	.002-.007 (62%)	3.03	0.621	Largemouth bass
16	11-22 (34%)	.000	.000-.000 (41%)	0.23	0.084	Longear sunfish
		****	NOT RECORDED			Muskellunge
3	0-9 (180%)	.000	.000-.000 (162%)	0.04	0.344	Northern pike
25	16-34 (37%)	.001	.000-.001 (56%)	0.36	0.133	Redear sunfish
5	0-16 (231%)	.000	.000-.000 (231%)	0.07	0.759	Smallmouth bass
1046	900-1191 (14%)	.031	.025-.036 (18%)	15.02	0.114	White crappie
6	0-12 (109%)	.000	.000-.000 (111%)	0.09	0.132	Yellow bullhead
1	0-1 (132%)	.000	.000-.000 (167%)	0.01	0.060	Yellow perch
60	47-73 (22%)	.002	.001-.002 (28%)	0.86	0.061	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
7773	6914-8631	(11%)	.199	.178-.219 (10%)	45.19	0.324	All species
			****	NOT RECORDED	****		Black bullhead
482	366-598	(24%)	.011	.006-.016 (43%)	2.80	0.341	Black crappie
1499	1111-1887	(26%)	.031	.027-.035 (13%)	8.72	0.163	Bluegill
			****	NOT RECORDED	****		Carp
2759	2351-3166	(15%)	.073	.060-.086 (18%)	16.04	1.176	Channel catfish
			****	NOT RECORDED	****		Golden shiner
8	3-13	(65%)	.000	.000-.000 (71%)	0.05	0.148	Green sunfish
465	115-815	(75%)	.009	.004-.015 (62%)	2.70	1.369	Largemouth bass
35	23-48	(34%)	.001	.000-.001 (41%)	0.21	0.186	Longear sunfish
			****	NOT RECORDED	****		Muskellunge
7	0-19	(180%)	.000	.000-.000 (162%)	0.04	0.758	Northern pike
55	35-75	(37%)	.001	.001-.002 (56%)	0.32	0.292	Redear sunfish
11	0-36	(231%)	.000	.000-.000 (231%)	0.06	1.673	Smallmouth bass
2305	1985-2626	(14%)	.068	.056-.080 (18%)	13.40	0.251	White crappie
13	0-27	(109%)	.000	.000-.001 (111%)	0.08	0.291	Yellow bullhead
1	0-3	(132%)	.000	.000-.000 (167%)	0.01	0.132	Yellow perch
132	103-162	(22%)	.004	.003-.005 (28%)	0.77	0.135	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
59485	52429-66540	(12%)	1.523	1.408-1.638(8%)	854.57	345.84	All species
2	0-8	(318%)	.000	.000-.000 (318%)	0.03	0.01	Black bullhead
1795	1338-2252	(25%)	.044	.021-.067 (53%)	25.79	10.44	Black crappie
21817	17598-26035	(19%)	.457	.413-.501 (10%)	313.42	126.84	Bluegill
6	0-18	(220%)	.000	.000-.001 (223%)	0.08	0.03	Carp
4706	4209-5202	(11%)	.127	.110-.144 (13%)	67.60	27.36	Channel catfish
2	0-8	(209%)	.000	.000-.000 (208%)	0.04	0.01	Golden shiner
54	17-92	(68%)	.001	.000-.001 (78%)	0.78	0.32	Green sunfish
11451	10301-12600	(10%)	.296	.271-.321 (8%)	164.50	66.57	Largemouth bass
190	123-257	(35%)	.004	.002-.006 (43%)	2.73	1.11	Longear sunfish
173	117-230	(33%)	.006	.003-.010 (52%)	2.49	1.01	Muskellunge
27	8-45	(69%)	.000	.000-.001 (98%)	0.38	0.15	Northern pike
189	122-257	(36%)	.004	.002-.006 (50%)	2.72	1.10	Redear sunfish
7	0-22	(231%)	.000	.000-.000 (231%)	0.09	0.04	Smallmouth bass
15173	13006-17341	(14%)	.462	.383-.542 (17%)	217.98	88.22	White crappie
291	202-381	(31%)	.010	.007-.014 (34%)	4.18	1.69	Yellow bullhead
134	86-181	(36%)	.003	.001-.005 (67%)	1.92	0.78	Yellow perch
3468	3048-3889	(12%)	.107	.085-.129 (21%)	49.83	20.17	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
7813	7104-8521	(9%)	.199	.186-.213 (7%)	112.24	0.131	All species
0	0-1	(278%)	.000	.000-.000 (318%)	0.00	0.127	Black bullhead
254	191-317	(25%)	.006	.003-.009 (46%)	3.65	0.142	Black crappie
1129	899-1359	(20%)	.023	.021-.026 (10%)	16.23	0.052	Bluegill
4	0-14	(220%)	.000	.000-.000 (223%)	0.06	0.775	Carp
1441	1249-1633	(13%)	.038	.032-.044 (16%)	20.70	0.306	Channel catfish
0	0-0	(209%)	.000	.000-.000 (209%)	0.00	0.014	Golden shiner
4	1-6	(65%)	.000	.000-.000 (71%)	0.05	0.067	Green sunfish
3257	2871-3643	(12%)	.080	.070-.090 (13%)	46.79	0.284	Largemouth bass
16	11-22	(34%)	.000	.000-.000 (41%)	0.23	0.084	Longear sunfish
55	32-77	(41%)	.002	.001-.003 (51%)	0.79	0.317	Muskellunge
8	2-15	(75%)	.000	.000-.000 (105%)	0.12	0.319	Northern pike
25	16-34	(36%)	.001	.000-.001 (56%)	0.36	0.133	Redear sunfish
5	0-16	(231%)	.000	.000-.000 (231%)	0.07	0.759	Smallmouth bass
1418	1226-1610	(14%)	.043	.035-.050 (18%)	20.37	0.093	White crappie
27	18-36	(33%)	.001	.001-.001 (33%)	0.39	0.094	Yellow bullhead
4	2-5	(37%)	.000	.000-.000 (96%)	0.06	0.030	Yellow perch
164	144-185	(12%)	.005	.004-.006 (17%)	2.36	0.047	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
17224	15663-18785	(9%)	.439	.409-.469 (7%)	100.14	0.290	All species
1	0-2	(278%)	.000	.000-.000 (318%)	0.00	0.279	Black bullhead
560	422-699	(25%)	.013	.007-.019 (46%)	3.26	0.312	Black crappie
2490	1983-2997	(20%)	.051	.046-.057 (10%)	14.48	0.114	Bluegill
9	0-30	(223%)	.000	.000-.001 (223%)	0.05	1.710	Carp
3177	2754-3600	(13%)	.084	.071-.098 (16%)	18.47	0.675	Channel catfish
0	0-0	(209%)	.000	.000-.000 (208%)	0.00	0.031	Golden shiner
8	3-13	(65%)	.000	.000-.000 (71%)	0.05	0.148	Green sunfish
7180	6329-8031	(12%)	.177	.154-.199 (13%)	41.74	0.627	Largemouth bass
35	23-48	(34%)	.001	.000-.001 (41%)	0.21	0.186	Longear sunfish
121	71-170	(41%)	.004	.002-.006 (51%)	0.70	0.698	Muskellunge
19	5-33	(75%)	.000	.000-.001 (105%)	0.11	0.703	Northern pike
56	35-76	(36%)	.001	.001-.002 (56%)	0.32	0.293	Redear sunfish
11	0-36	(231%)	.000	.000-.000 (231%)	0.06	1.673	Smallmouth bass
3126	2702-3550	(14%)	.094	.077-.110 (18%)	18.18	0.206	White crappie
60	41-80	(33%)	.002	.001-.003 (33%)	0.35	0.207	Yellow bullhead
9	5-12	(37%)	.000	.000-.000 (96%)	0.05	0.065	Yellow perch
362	317-407	(12%)	.011	.009-.013 (17%)	2.11	0.104	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	4.2	4.1-4.3 (3%)	1.0	11.2	765
SHORE	1.6	1.4-1.8 (14%)	0.5	3.2	44
BOAT & SHORE	4.1	3.9-4.2 (3%)	0.5	11.2	809
MILES TRAVELED	14.8	13.8-15.9 (7%)	1	800	2073
SUCCESS RATING (1-10)	3.3	3.2-3.4 (3%)	1	10	2073

*392 samples were from split interviews of completed trips.
36.0% of all 2248 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 26 out of 2248 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	275	812	54	7	1					
SHORE INTERVIEWS	362	646	70	19	1	1				

Table 10. Number of interviews (and %) per species sought for all interviews.

787 (35.0%)	ANY	All species
140 (6.2%)	BLG	Bluegill
501 (22.3%)	CCF	Channel catfish
195 (8.7%)	CRP	Crappie spp.
625 (27.8%)	LMB	Largemouth bass

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black bullhead																
HARVEST	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1457	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1331	26	56	27	11	8	-	-	-	-	-	-	-	-	-	-
RELEASE	1429	6	12	-	7	4	1	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	1149	39	39	55	44	67	19	16	13	10	6	-	2	-	-	-
RELEASE	983	77	54	59	39	122	10	19	62	6	20	6	-	2	-	-
Carp																
HARVEST	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1457	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	1249	100	79	25	6	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1175	172	98	7	5	1	1	-	-	-	-	-	-	-	-	-
Golden shiner																
HARVEST	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1455	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1412	45	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	292	462	402	156	80	34	19	2	6	1	3	1	1	-	-	-
Longear sunfish																
HARVEST	1439	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Muskellunge																
HARVEST	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1396	62	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	1458	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1444	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	1397	62	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11.(cont) Number of anglers with a given harvest & release for completed trips

Smallmouth bass

HARVEST	1458	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

White crappie

HARVEST	1166	21	21	46	32	42	17	27	13	3	21	-	11	10	4	25
RELEASE	1139	46	18	79	30	95	15	7	12	2	9	2	1	2	-	2

Yellow bullhead

HARVEST	1451	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1425	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Yellow perch

HARVEST	1455	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1418	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Yellow bass

HARVEST	1424	23	11	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1118	152	108	48	20	4	4	2	2	1	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 PIERCE LAKE
 147 ACRES
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 240/693 = 34.6%

NUMBER OF INTERVIEWS: 2229

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	16574	14953-18195 (10%)	113	102-124 (10%)	7%
	HOLIDAY	17816	16097-19535 (10%)	121	110-133 (10%)	9%
	TOTAL	34390	32027-36753 (7%)	234	218-250 (7%)	8%
SHORE	WEEKDAY	22603	20922-24284 (7%)	154	142-165 (7%)	8%
	HOLIDAY	20821	19050-22592 (9%)	142	130-154 (9%)	11%
	TOTAL	43424	40982-45866 (6%)	296	279-312 (6%)	9%
BOAT & SHORE	WEEKDAY	39177	36841-41512 (6%)	267	251-283 (6%)	7%
	HOLIDAY	38637	36169-41105 (6%)	263	246-280 (6%)	10%
	TOTAL	77814	74416-81212 (4%)	530	507-553 (4%)	9%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
48387	44600-52175 (8%)	.583	.269-.897 (54%)	813.92	329.39	All species
574	359-789 (37%)	.006	.004-.007 (34%)	9.66	3.91	Black bullhead
14811	12571-17051 (15%)	.250	.000-.558 (124%)	249.14	100.83	Black crappie
1465	1062-1867 (28%)	.020	.013-.027 (36%)	24.64	9.97	Bluegill
		****	NOT RECORDED ****			Bullhead spp.
4342	3440-5243 (21%)	.042	.025-.059 (41%)	73.03	29.56	Carp
6089	5032-7146 (17%)	.053	.045-.061 (15%)	102.42	41.45	Channel catfish
		****	NOT RECORDED ****			Freshwater drum
		****	NOT RECORDED ****			Golden shiner
534	299-770 (44%)	.005	.001-.010 (79%)	8.99	3.64	Green sunfish
493	242-743 (51%)	.005	.001-.008 (76%)	8.29	3.35	Gizzard shad
2716	2103-3329 (23%)	.028	.022-.035 (24%)	45.69	18.49	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
161	0-336 (109%)	.002	.000-.004 (105%)	2.71	1.10	Northern pike
32	0-70 (116%)	.000	.000-.000 (105%)	0.55	0.22	Pumpkinseed
500	286-714 (43%)	.005	.002-.007 (49%)	8.41	3.40	Redear sunfish
648	425-870 (34%)	.008	.004-.012 (51%)	10.89	4.41	Smallmouth bass
6239	4619-7858 (26%)	.070	.025-.115 (65%)	104.94	42.47	Walleye
		****	NOT RECORDED ****			White bass
9302	7831-10773 (16%)	.083	.073-.094 (13%)	156.46	63.32	White crappie
295	102-488 (65%)	.005	.000-.012 (153%)	4.96	2.01	Yellow bullhead
178	7-349 (96%)	.002	.000-.005 (135%)	2.99	1.21	Yellow perch
10	0-131 (1271%)	.000	.000-.002 (1271%)	0.16	0.06	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
13337	11543-15131 (13%)	.159	.105-.213 (34%)	224.34	0.276	All species
104	66-142 (37%)	.001	.001-.001 (42%)	1.74	0.180	Black bullhead
1626	1375-1878 (15%)	.029	.000-.065 (119%)	27.36	0.110	Black crappie
116	82-150 (29%)	.002	.001-.003 (42%)	1.95	0.079	Bluegill
		****	NOT RECORDED ****			Bullhead spp.
1305	983-1627 (25%)	.013	.007-.019 (47%)	21.95	0.301	Carp
1887	1494-2280 (21%)	.017	.014-.021 (21%)	31.74	0.310	Channel catfish
		****	NOT RECORDED ****			Freshwater drum
		****	NOT RECORDED ****			Golden shiner
59	32-87 (46%)	.001	.000-.001 (65%)	1.00	0.111	Green sunfish
69	34-105 (51%)	.001	.000-.001 (76%)	1.16	0.140	Gizzard shad
2402	1861-2944 (23%)	.025	.019-.031 (24%)	40.41	0.884	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
308	0-634 (106%)	.004	.000-.007 (102%)	5.18	1.913	Northern pike
2	0-5 (122%)	.000	.000-.000 (104%)	0.04	0.071	Pumpkinseed
85	47-123 (44%)	.001	.000-.001 (53%)	1.43	0.170	Redear sunfish
485	319-651 (34%)	.006	.003-.010 (56%)	8.16	0.749	Smallmouth bass
3830	2075-5584 (46%)	.049	.000-.105 (114%)	64.42	0.614	Walleye
		****	NOT RECORDED ****			White bass
959	801-1118 (17%)	.009	.007-.010 (14%)	16.14	0.103	White crappie
52	11-93 (78%)	.001	.000-.002 (156%)	0.88	0.177	Yellow bullhead
45	1-89 (98%)	.001	.000-.001 (142%)	0.76	0.253	Yellow perch
1	1-1 (0%)	.000	.000-.000 (0%)	0.02	0.150	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
29403	25448-33358 (13%)	.350	.231-.470 (34%)	200.16	0.608	All species
228	144-312 (37%)	.002	.001-.003 (42%)	1.55	0.398	Black bullhead
3585	3030-4140 (15%)	.065	.000-.143 (119%)	24.41	0.242	Black crappie
256	181-331 (29%)	.004	.002-.006 (42%)	1.74	0.175	Bluegill
		****	NOT RECORDED ****			Bullhead spp.
2877	2167-3588 (25%)	.029	.015-.043 (47%)	19.59	0.663	Carp
4160	3293-5027 (21%)	.038	.030-.046 (21%)	28.32	0.683	Channel catfish
		****	NOT RECORDED ****			Freshwater drum
		****	NOT RECORDED ****			Golden shiner
131	71-191 (46%)	.001	.000-.002 (65%)	0.89	0.245	Green sunfish
153	74-231 (51%)	.001	.000-.002 (76%)	1.04	0.310	Gizzard shad
5296	4103-6489 (23%)	.055	.042-.069 (24%)	36.05	1.950	Largemouth bass
		****	NOT RECORDED ****			Muskellunge
679	0-1397 (106%)	.008	.000-.017 (102%)	4.62	4.217	Northern pike
5	0-11 (122%)	.000	.000-.000 (104%)	0.03	0.156	Pumpkinseed
187	104-271 (44%)	.002	.001-.003 (53%)	1.28	0.375	Redear sunfish
1069	704-1434 (34%)	.014	.006-.022 (56%)	7.28	1.651	Smallmouth bass
8443	4575-12310 (46%)	.108	.000-.231 (114%)	57.47	1.353	Walleye
		****	NOT RECORDED ****			White bass
2115	1766-2464 (17%)	.019	.016-.022 (14%)	14.40	0.227	White crappie
115	25-205 (78%)	.002	.000-.005 (156%)	0.78	0.390	Yellow bullhead
99	2-196 (98%)	.001	.000-.003 (142%)	0.68	0.558	Yellow perch
3	3-3 (0%)	.000	.000-.000 (0%)	0.02	0.332	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
111456	99126-123786 (11%)	1.535	1.070-2.001 (30%)	1874.79	758.72	All species
1070	721-1418 (33%)	.009	.006-.012 (29%)	18.00	7.28	Black bullhead
34557	30914-38200 (11%)	.535	.207-.863 (61%)	581.28	235.24	Black crappie
25045	12924-37165 (48%)	.382	.037-.726 (90%)	421.28	170.49	Bluegill
7	7-7 (0%)	.000	.000-.000 (0%)	0.12	0.05	Bullhead spp.
5691	4631-6750 (19%)	.054	.037-.072 (32%)	95.72	38.74	Carp
6858	5747-7970 (16%)	.067	.054-.079 (19%)	115.36	46.69	Channel catfish
23	0-314 (1271%)	.000	.000-.004 (1271%)	0.39	0.16	Freshwater drum
16	0-52 (231%)	.000	.000-.000 (236%)	0.26	0.11	Golden shiner
981	264-1698 (73%)	.014	.000-.032 (134%)	16.50	6.68	Green sunfish
867	532-1201 (39%)	.007	.004-.011 (52%)	14.58	5.90	Gizzard shad
8276	6999-9553 (15%)	.176	.000-.709 (304%)	139.21	56.34	Largemouth bass
1541	872-2210 (43%)	.013	.008-.017 (38%)	25.92	10.49	Muskellunge
441	124-758 (72%)	.004	.001-.006 (71%)	7.42	3.00	Northern pike
137	47-227 (66%)	.001	.000-.001 (75%)	2.31	0.93	Pumpkinseed
522	307-737 (41%)	.005	.002-.007 (48%)	8.78	3.55	Redear sunfish
2826	2301-3351 (19%)	.030	.023-.037 (22%)	47.53	19.24	Smallmouth bass
12120	9590-14650 (21%)	.134	.094-.174 (30%)	203.87	82.51	Walleye
11	0-151 (1271%)	.000	.000-.006 (1271%)	0.19	0.07	White bass
9915	8411-11419 (15%)	.098	.084-.112 (15%)	166.78	67.49	White crappie
366	169-563 (54%)	.005	.000-.012 (143%)	6.16	2.49	Yellow bullhead
178	7-349 (96%)	.002	.000-.005 (135%)	2.99	1.21	Yellow perch
10	0-131 (1271%)	.000	.000-.002 (1271%)	0.16	0.06	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
20860	18260-23459 (12%)	.273	.196-.350 (28%)	350.88	0.187	All species
158	113-203 (28%)	.001	.001-.002 (32%)	2.66	0.148	Black bullhead
2690	2313-3067 (14%)	.052	.006-.099 (88%)	45.25	0.078	Black crappie
1237	432-2042 (65%)	.022	.000-.045 (107%)	20.81	0.049	Bluegill
1	1-1 (0%)	.000	.000-.000 (0%)	0.01	0.081	Bullhead spp.
1667	1280-2054 (23%)	.016	.010-.023 (39%)	28.04	0.293	Carp
1998	1601-2395 (20%)	.019	.015-.024 (22%)	33.61	0.291	Channel catfish
1	1-1 (0%)	.000	.000-.000 (0%)	0.03	0.065	Freshwater drum
0	0-0 (231%)	.000	.000-.000 (236%)	0.00	0.008	Golden shiner
74	44-104 (41%)	.001	.000-.001 (56%)	1.24	0.075	Green sunfish
92	55-129 (41%)	.001	.000-.001 (61%)	1.55	0.106	Gizzard shad
3718	3083-4353 (17%)	.056	.036-.076 (36%)	62.54	0.449	Largemouth bass
1839	1072-2607 (42%)	.016	.009-.024 (44%)	30.94	1.194	Muskellunge
539	143-935 (74%)	.005	.001-.009 (80%)	9.06	1.222	Northern pike
8	2-13 (68%)	.000	.000-.000 (92%)	0.13	0.057	Pumpkinseed
87	49-124 (43%)	.001	.000-.001 (53%)	1.46	0.166	Redear sunfish
953	751-1154 (21%)	.011	.007-.015 (34%)	16.02	0.337	Smallmouth bass
4691	2923-6459 (38%)	.059	.003-.115 (95%)	78.91	0.387	Walleye
2	2-2 (0%)	.000	.000-.001 (1271%)	0.04	0.190	White bass
999	839-1159 (16%)	.010	.008-.011 (14%)	16.80	0.101	White crappie
60	19-101 (69%)	.001	.000-.002 (150%)	1.01	0.164	Yellow bullhead
45	1-89 (98%)	.001	.000-.001 (142%)	0.76	0.253	Yellow perch
1	1-1 (0%)	.000	.000-.000 (0%)	0.02	0.150	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
45988	40257-51718	(12%)	.601	.432-.771 (28%)	313.05	0.413	All species
349	249-448	(28%)	.003	.002-.004 (32%)	2.37	0.326	Black bullhead
5931	5100-6762	(14%)	.116	.014-.217 (88%)	40.37	0.172	Black crappie
2727	952-4502	(65%)	.048	.000-.100 (107%)	18.56	0.109	Bluegill
1	0-18	(1271%)	.000	.000-.000 (1271%)	0.01	0.179	Bullhead spp.
3675	2822-4528	(23%)	.036	.022-.050 (39%)	25.01	0.646	Carp
4405	3529-5281	(20%)	.043	.033-.052 (22%)	29.99	0.642	Channel catfish
3	3-3	(0%)	.000	.000-.001 (1271%)	0.02	0.144	Freshwater drum
0	0-1	(231%)	.000	.000-.000 (236%)	0.00	0.017	Golden shiner
163	96-230	(41%)	.002	.001-.003 (56%)	1.11	0.166	Green sunfish
203	120-285	(41%)	.002	.001-.003 (61%)	1.38	0.234	Gizzard shad
8196	6796-9597	(17%)	.123	.078-.168 (36%)	55.80	0.990	Largemouth bass
4055	2363-5748	(42%)	.036	.020-.052 (44%)	27.61	2.632	Muskellunge
1188	315-2061	(74%)	.011	.002-.020 (80%)	8.08	2.694	Northern pike
17	5-29	(68%)	.000	.000-.000 (92%)	0.12	0.126	Pumpkinseed
191	108-274	(43%)	.002	.001-.003 (53%)	1.30	0.366	Redear sunfish
2100	1657-2543	(21%)	.024	.016-.032 (34%)	14.30	0.743	Smallmouth bass
10342	6444-14240	(38%)	.130	.007-.254 (95%)	70.40	0.853	Walleye
5	5-5	(0%)	.000	.000-.002 (1271%)	0.03	0.419	White bass
2202	1849-2556	(16%)	.021	.018-.024 (14%)	14.99	0.222	White crappie
133	41-224	(69%)	.002	.000-.005 (150%)	0.90	0.362	Yellow bullhead
99	2-196	(98%)	.001	.000-.003 (142%)	0.68	0.558	Yellow perch
3	3-3	(0%)	.000	.000-.000 (0%)	0.02	0.332	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.3	3.1-3.4	(5%)	0.3	7.0	413
SHORE	2.4	2.2-2.7	(9%)	0.7	4.8	183
BOAT & SHORE	3.0	2.9-3.1	(4%)	0.3	7.0	596
MILES TRAVELED	10.3	8.8-11.7	(14%)	1	1000	1689
SUCCESS RATING (1-10)	3.1	3.0-3.2	(3%)	1	10	1681

*261 samples were from split interviews of completed trips.
30.4% of all 1962 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 89 out of 1962 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	184	335	24	2						
SHORE INTERVIEWS	809	402	129	60	17					

Table 10. Number of interviews (and %) per species sought for all interviews.

827 (42.2%)	ANY	All species
1 (0.1%)	BLC	Black crappie
17 (0.9%)	BLG	Bluegill
206 (10.5%)	BSS	Black bass spp.
37 (1.9%)	CAP	Carp
161 (8.2%)	CCF	Channel catfish
437 (22.3%)	CRP	Crappie spp.
45 (2.3%)	LMB	Largemouth bass
90 (4.6%)	MUE	Muskellunge
3 (0.2%)	NOP	Northern pike
1 (0.1%)	SMB	Smallmouth bass
2 (0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
135 (6.9%)	WAE	Walleye

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black bullhead																
HARVEST	991	12	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	991	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	884	33	45	18	9	2	5	4	3	-	1	-	-	-	-	1
RELEASE	695	95	84	74	19	14	11	3	2	-	5	-	2	-	-	1
Bluegill																
HARVEST	992	9	2	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	810	64	60	38	15	5	7	2	3	-	-	-	-	-	-	1
Carp																
HARVEST	918	64	15	6	1	-	-	1	-	-	-	-	-	-	-	-
RELEASE	962	42	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	895	59	19	25	6	-	1	-	-	-	-	-	-	-	-	-
RELEASE	984	17	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1002	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1001	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	994	10	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	986	17	1	-	1	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	840	150	15	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	799	147	35	16	1	2	2	1	-	2	-	-	-	-	-	-
Muskellunge																
HARVEST	1005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	967	17	17	4	-	-	-	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	994	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	996	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	996	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	980	22	3	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	910	89	6	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	792	123	79	10	-	1	-	-	-	-	-	-	-	-	-	-
RELEASE	820	105	52	23	5	-	-	-	-	-	-	-	-	-	-	-

Table 11.(cont.) Number of anglers with a given harvest & release for completed trips

# OF FISH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
White bass																
HARVEST 1005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1004	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST 914	52	19	5	7	5	2	1	-	-	-	-	-	-	-	-	-
RELEASE 992	7	2	2	1	-	-	-	-	-	-	1	-	-	-	-	-
Yellow bullhead																
HARVEST 1001	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1001	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST 1002	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 RED HILLS LAKE
 40 ACRES
 REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 293/693 = 42.3%

NUMBER OF INTERVIEWS: 836

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	1801	1392-2210 (23%)	45	35-55 (23%)	17%
	HOLIDAY	1805	1490-2120 (17%)	45	37-53 (17%)	39%
	TOTAL	3606	3089-4122 (14%)	90	77-103 (14%)	28%
SHORE	WEEKDAY	3643	2952-4335 (19%)	91	74-108 (19%)	16%
	HOLIDAY	3473	2966-3979 (15%)	87	74-99 (15%)	33%
	TOTAL	7116	6283-7949 (12%)	178	157-199 (12%)	24%
BOAT & SHORE	WEEKDAY	5444	4667-6222 (14%)	136	117-156 (14%)	17%
	HOLIDAY	5277	4681-5874 (11%)	132	117-147 (11%)	35%
	TOTAL	10722	9742-11702 (9%)	268	244-293 (9%)	26%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3607	2706-4509	(25%)	.228	.158-.298 (31%)	222.85	90.19	All species
1748	1116-2379	(36%)	.125	.072-.178 (42%)	107.95	43.69	Black crappie
636	397-874	(38%)	.031	.017-.045 (45%)	39.26	15.89	Bluegill
			****	NOT RECORDED	****		Bowfin
35	0-109	(209%)	.001	.000-.002 (210%)	2.17	0.88	Carp
182	89-274	(51%)	.009	.004-.013 (54%)	11.23	4.54	Channel catfish
			****	NOT RECORDED	****		Green sunfish
55	15-95	(73%)	.004	.000-.008 (106%)	3.39	1.37	Largemouth bass
198	122-274	(38%)	.010	.005-.015 (46%)	12.21	4.94	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
			****	NOT RECORDED	****		Threadfin shad
120	21-219	(82%)	.004	.001-.006 (69%)	7.40	3.00	Warmouth
			****	NOT RECORDED	****		White catfish
635	371-899	(42%)	.045	.025-.065 (45%)	39.23	15.87	White crappie
			****	NOT RECORDED	****		Yellow bullhead

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
712	537-886	(25%)	.045	.031-.058 (30%)	43.98	0.197	All species
327	210-444	(36%)	.024	.013-.034 (43%)	20.19	0.187	Black crappie
92	57-128	(39%)	.004	.003-.006 (43%)	5.69	0.145	Bluegill
			****	NOT RECORDED	****		Bowfin
1	0-3	(209%)	.000	.000-.000 (209%)	0.06	0.029	Carp
60	29-91	(51%)	.003	.001-.004 (56%)	3.70	0.330	Channel catfish
			****	NOT RECORDED	****		Green sunfish
47	13-81	(73%)	.004	.000-.009 (141%)	2.89	0.850	Largemouth bass
42	26-58	(38%)	.002	.001-.003 (47%)	2.57	0.211	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
			****	NOT RECORDED	****		Threadfin shad
38	0-88	(132%)	.001	.000-.002 (119%)	2.35	0.318	Warmouth
			****	NOT RECORDED	****		White catfish
106	61-150	(42%)	.007	.004-.010 (44%)	6.52	0.166	White crappie
			****	NOT RECORDED	****		Yellow bullhead

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1569	1185-1954	(25%)	.098	.068-.128 (30%)	39.24	0.435	All species
721	462-979	(36%)	.052	.029-.074 (43%)	18.02	0.412	Black crappie
203	125-281	(39%)	.010	.006-.014 (43%)	5.08	0.319	Bluegill
			****	NOT RECORDED ****			Bowfin
2	0-7	(209%)	.000	.000-.000 (210%)	0.06	0.064	Carp
132	64-200	(51%)	.006	.003-.009 (56%)	3.30	0.727	Channel catfish
			****	NOT RECORDED ****			Green sunfish
103	28-178	(73%)	.008	.000-.019 (141%)	2.57	1.874	Largemouth bass
92	57-127	(38%)	.005	.002-.007 (47%)	2.30	0.465	Redear sunfish
			****	NOT RECORDED ****			Smallmouth bass
			****	NOT RECORDED ****			Threadfin shad
84	0-195	(132%)	.002	.000-.005 (119%)	2.10	0.700	Warmouth
			****	NOT RECORDED ****			White catfish
233	134-331	(42%)	.016	.009-.023 (44%)	5.82	0.366	White crappie
			****	NOT RECORDED ****			Yellow bullhead

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
14274	10981-17567	(23%)	.922	.710-1.134(23%)	881.78	356.85	All species
2006	1297-2716	(35%)	.157	.099-.214 (37%)	123.95	50.16	Black crappie
7899	5536-10261	(30%)	.479	.323-.635 (33%)	487.93	197.46	Bluegill
2	0-7	(278%)	.000	.000-.000 (278%)	0.11	0.04	Bowfin
41	0-115	(180%)	.001	.000-.003 (161%)	2.55	1.03	Carp
297	189-406	(36%)	.015	.009-.021 (40%)	18.38	7.44	Channel catfish
3	0-14	(318%)	.000	.000-.000 (318%)	0.21	0.09	Green sunfish
2159	1186-3131	(45%)	.143	.105-.182 (27%)	133.35	53.97	Largemouth bass
665	390-940	(41%)	.050	.018-.082 (63%)	41.07	16.62	Redear sunfish
8	0-25	(220%)	.002	.000-.005 (220%)	0.49	0.20	Smallmouth bass
32	0-85	(164%)	.001	.000-.003 (146%)	1.98	0.80	Threadfin shad
357	201-514	(44%)	.019	.006-.032 (68%)	22.08	8.93	Warmouth
10	0-32	(231%)	.001	.000-.002 (231%)	0.60	0.24	White catfish
784	496-1072	(37%)	.053	.032-.075 (40%)	48.42	19.60	White crappie
11	0-24	(125%)	.001	.000-.002 (140%)	0.66	0.27	Yellow bullhead

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI		KG/HA	AVE KG	SPECIES
2178	1738-2618	(20%)	.142	.113-.171	(20%)	134.56	0.153	All species
356	234-479	(34%)	.027	.016-.038	(39%)	22.01	0.178	Black crappie
620	437-802	(29%)	.037	.023-.051	(37%)	38.27	0.078	Bluegill
0	0-2	(318%)	.000	.000-.000	(318%)	0.03	0.261	Bowfin
2	0-4	(144%)	.000	.000-.000	(171%)	0.10	0.041	Carp
83	50-116	(39%)	.004	.003-.006	(42%)	5.14	0.279	Channel catfish
0	0-1	(318%)	.000	.000-.000	(318%)	0.02	0.100	Green sunfish
831	556-1107	(33%)	.056	.039-.072	(30%)	51.36	0.385	Largemouth bass
96	65-126	(32%)	.007	.004-.009	(44%)	5.92	0.144	Redear sunfish
0	0-1	(220%)	.000	.000-.000	(220%)	0.02	0.051	Smallmouth bass
			****	NOT RECORDED	****			Threadfin shad
67	14-120	(79%)	.003	.001-.005	(68%)	4.12	0.187	Warmouth
			****	NOT RECORDED	****			White catfish
119	73-166	(39%)	.008	.005-.011	(41%)	7.37	0.152	White crappie
3	0-7	(132%)	.000	.000-.001	(140%)	0.19	0.286	Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI		LB/ACRE	AVE LB	SPECIES
4802	3832-5772	(20%)	.313	.249-.376	(20%)	120.05	0.336	All species
786	516-1055	(34%)	.060	.036-.083	(39%)	19.64	0.392	Black crappie
1366	963-1769	(29%)	.081	.051-.112	(37%)	34.15	0.173	Bluegill
1	0-4	(278%)	.000	.000-.000	(318%)	0.03	0.575	Bowfin
4	0-9	(144%)	.000	.000-.000	(171%)	0.09	0.090	Carp
183	111-256	(39%)	.010	.006-.014	(42%)	4.58	0.616	Channel catfish
1	0-3	(318%)	.000	.000-.000	(278%)	0.02	0.220	Green sunfish
1833	1225-2440	(33%)	.123	.086-.160	(30%)	45.82	0.849	Largemouth bass
211	144-279	(32%)	.014	.008-.021	(44%)	5.28	0.318	Redear sunfish
1	0-3	(223%)	.000	.000-.001	(220%)	0.02	0.113	Smallmouth bass
			****	NOT RECORDED	****			Threadfin shad
147	30-264	(79%)	.007	.002-.011	(68%)	3.68	0.412	Warmouth
			****	NOT RECORDED	****			White catfish
263	160-365	(39%)	.017	.010-.025	(41%)	6.57	0.335	White crappie
7	0-16	(132%)	.000	.000-.001	(140%)	0.17	0.630	Yellow bullhead

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.4	3.1-3.8 (10%)	0.5	8.9	110
SHORE	2.2	1.7-2.7 (21%)	0.2	10.2	67
BOAT & SHORE	3.0	2.7-3.3 (10%)	0.2	10.2	177
MILES TRAVELED	27.1	21.7-32.4 (20%)	1	1003	653
SUCCESS RATING (1-10)	4.0	3.8-4.3 (5%)	1	10	647

*75 samples were from split interviews of completed trips.
23.4% of all 758 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 29 out of 758 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	51	94	29	9						
SHORE INTERVIEWS	205	205	82	50	14	10	4	4		1

Table 10. Number of interviews (and %) per species sought for all interviews.

379 (50.0%)	ANY	All species
3 (0.4%)	BLC	Black crappie
112 (14.8%)	BLG	Bluegill
27 (3.6%)	CCF	Channel catfish
98 (12.9%)	CRP	Crappie spp.
139 (18.3%)	LMB	Largemouth bass

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	282	6	17	6	7	6	2	-	-	-	2	2	-	-	-	2
RELEASE	308	10	10	2	1	1	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	309	14	3	1	5	-	-	-	-	-	-	-	-	-	-	-
RELEASE	175	48	41	21	6	2	2	-	8	6	10	-	4	2	-	7
Bowfin																
HARVEST	332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	330	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	306	8	10	6	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	311	20	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	327	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	242	48	19	9	7	1	1	1	-	1	1	-	-	1	-	1
Redear sunfish																
HARVEST	314	8	6	3	-	-	-	-	-	1	-	-	-	-	-	-
RELEASE	306	16	7	2	-	-	-	-	-	-	1	-	-	-	-	-
Warmouth																
HARVEST	325	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	304	19	1	6	-	-	-	-	-	2	-	-	-	-	-	-
White catfish																
HARVEST	332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	331	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	286	19	15	4	2	4	-	-	-	2	-	-	-	-	-	-
RELEASE	323	3	2	-	1	1	2	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	328	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 SHELBYVILLE MAIN LAKE
 10191 ACRES
 REGION 0, DISTRICT 0

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 503/693 = 72.6%

NUMBER OF INTERVIEWS: 5152

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	82437	74119-90754 (10%)	8	7-9 (10%)	9%
	HOLIDAY	76051	64010-88091 (16%)	7	6-9 (16%)	21%
	TOTAL	158488	143854-173122 (9%)	16	14-17 (9%)	15%
SHORE	WEEKDAY	9926	8669-11183 (13%)	1	1-1 (13%)	8%
	HOLIDAY	6947	5573-8321 (20%)	1	1-1 (20%)	20%
	TOTAL	16873	15011-18735 (11%)	2	1-2 (11%)	13%
BOAT & SHORE	WEEKDAY	92363	83951-100775 (9%)	9	8-10 (9%)	9%
	HOLIDAY	82998	70879-95116 (15%)	8	7-9 (15%)	21%
	TOTAL	175360	160608-190113 (8%)	17	16-19 (8%)	15%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
76555	65268-87842 (15%)	.358	.278-.439 (22%)	18.56	7.51	All species
18	0-39 (114%)	.000	.000-.000 (129%)	0.00	0.00	Bigmouth buffalo
		****	NOT RECORDED ****			Bighead carp
		****	NOT RECORDED ****			Black buffalo
		****	NOT RECORDED ****			Black bullhead
5275	1904-8645 (64%)	.023	.011-.034 (52%)	1.28	0.52	Black crappie
5102	2728-7476 (47%)	.034	.016-.051 (51%)	1.24	0.50	Bluegill
36	0-86 (136%)	.000	.000-.001 (145%)	0.01	0.00	Carp
1631	0-4853 (198%)	.030	.000-.097 (219%)	0.40	0.16	Channel catfish
		****	NOT RECORDED ****			Crappie spp.
48	0-107 (123%)	.000	.000-.001 (175%)	0.01	0.00	Flathead catfish
147	29-264 (80%)	.001	.000-.002 (81%)	0.04	0.01	Freshwater drum
159	6-312 (96%)	.001	.000-.003 (103%)	0.04	0.02	Green sunfish
		****	NOT RECORDED ****			Highfin carpsucker
		****	NOT RECORDED ****			Longear sunfish x Bluegill
640	344-936 (46%)	.003	.001-.005 (66%)	0.16	0.06	Largemouth bass
		****	NOT RECORDED ****			Longnose gar
		****	NOT RECORDED ****			Muskellunge
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Rock bass
		****	NOT RECORDED ****			Redear sunfish
59	0-157 (165%)	.000	.000-.000 (146%)	0.01	0.01	Striped bass x White bass
		****	NOT RECORDED ****			Shortnose gar
6	0-17 (196%)	.000	.000-.000 (196%)	0.00	0.00	Smallmouth bass
361	23-698 (93%)	.002	.000-.004 (117%)	0.09	0.04	Striped bass
2172	362-3983 (83%)	.004	.002-.006 (48%)	0.53	0.21	Walleye
		****	NOT RECORDED ****			Warmouth
8670	4388-12952 (49%)	.055	.023-.087 (58%)	2.10	0.85	White bass
52208	44398-60017 (15%)	.204	.174-.235 (15%)	12.66	5.12	White crappie
		****	NOT RECORDED ****			Yellow bullhead
23	0-48 (109%)	.000	.000-.001 (149%)	0.01	0.00	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
26179	21381-30978 (18%)	.140	.061-.218 (56%)	6.35	0.342	All species
103	0-237 (130%)	.001	.000-.002 (122%)	0.03	5.595	Bigmouth buffalo
		****	NOT RECORDED ****			Bighead carp
		****	NOT RECORDED ****			Black buffalo
		****	NOT RECORDED ****			Black bullhead
1615	694-2536 (57%)	.007	.004-.010 (48%)	0.39	0.306	Black crappie
515	263-768 (49%)	.003	.002-.005 (53%)	0.12	0.101	Bluegill
36	0-82 (128%)	.000	.000-.001 (145%)	0.01	0.984	Carp
2047	0-5787 (183%)	.036	.000-.113 (212%)	0.50	1.255	Channel catfish
		****	NOT RECORDED ****			Crappie spp.
147	0-335 (129%)	.001	.000-.002 (170%)	0.04	3.063	Flathead catfish
62	2-122 (97%)	.000	.000-.001 (138%)	0.01	0.422	Freshwater drum
14	1-27 (95%)	.000	.000-.000 (106%)	0.00	0.087	Green sunfish
		****	NOT RECORDED ****			Highfin carpsucker
		****	NOT RECORDED ****			Longear sunfish x Bluegill
614	298-930 (51%)	.003	.001-.005 (74%)	0.15	0.960	Largemouth bass
		****	NOT RECORDED ****			Longnose gar
		****	NOT RECORDED ****			Muskellunge
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Rock bass
		****	NOT RECORDED ****			Redear sunfish
28	0-74 (164%)	.000	.000-.000 (145%)	0.01	0.476	Striped bass x White bass
		****	NOT RECORDED ****			Shortnose gar
4	0-12 (196%)	.000	.000-.000 (196%)	0.00	0.699	Smallmouth bass
113	0-233 (107%)	.001	.000-.002 (131%)	0.03	0.313	Striped bass
1727	285-3169 (83%)	.003	.001-.004 (51%)	0.42	0.795	Walleye
		****	NOT RECORDED ****			Warmouth
3087	1408-4766 (54%)	.022	.008-.035 (63%)	0.75	0.356	White bass
16065	13699-18431 (15%)	.063	.053-.072 (15%)	3.90	0.308	White crappie
		****	NOT RECORDED ****			Yellow bullhead
3	0-7 (142%)	.000	.000-.000 (182%)	0.00	0.130	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
57716	47137-68294 (18%)	.308	.135-.480 (56%)	5.66	0.754	All species
227	0-523 (130%)	.002	.000-.003 (122%)	0.02	12.335	Bigmouth buffalo
		****	NOT RECORDED ****			Bighead carp
		****	NOT RECORDED ****			Black buffalo
		****	NOT RECORDED ****			Black bullhead
3561	1531-5590 (57%)	.015	.008-.022 (48%)	0.35	0.675	Black crappie
1136	579-1693 (49%)	.008	.004-.012 (53%)	0.11	0.223	Bluegill
79	0-180 (128%)	.001	.000-.002 (145%)	0.01	2.169	Carp
4512	0-12757 (183%)	.080	.000-.249 (212%)	0.44	2.766	Channel catfish
		****	NOT RECORDED ****			Crappie spp.
323	0-740 (129%)	.001	.000-.003 (170%)	0.03	6.754	Flathead catfish
136	4-268 (97%)	.001	.000-.002 (138%)	0.01	0.930	Freshwater drum
30	2-59 (95%)	.000	.000-.001 (106%)	0.00	0.191	Green sunfish
		****	NOT RECORDED ****			Highfin carpsucker
		****	NOT RECORDED ****			Longear sunfish x Bluegill
1354	657-2050 (51%)	.006	.002-.011 (74%)	0.13	2.116	Largemouth bass
		****	NOT RECORDED ****			Longnose gar
		****	NOT RECORDED ****			Muskellunge
		****	NOT RECORDED ****			Orangespotted sunfish
		****	NOT RECORDED ****			Rock bass
		****	NOT RECORDED ****			Redear sunfish
62	0-164 (164%)	.000	.000-.000 (145%)	0.01	1.050	Striped bass x White bass
		****	NOT RECORDED ****			Shortnose gar
9	0-27 (196%)	.000	.000-.000 (196%)	0.00	1.541	Smallmouth bass
249	0-515 (107%)	.001	.000-.003 (131%)	0.02	0.691	Striped bass
3807	628-6986 (83%)	.006	.003-.009 (51%)	0.37	1.753	Walleye
		****	NOT RECORDED ****			Warmouth
6806	3104-10508 (54%)	.047	.017-.078 (63%)	0.67	0.785	White bass
35417	30201-40633 (15%)	.138	.117-.160 (15%)	3.48	0.678	White crappie
		****	NOT RECORDED ****			Yellow bullhead
7	0-16 (142%)	.000	.000-.000 (182%)	0.00	0.286	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
 Catch includes both harvested and released fish.

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
253884	225875-281892 (11%)	1.195	1.041-1.348 (13%)	61.56	24.91	All species
140	11-269 (92%)	.001	.000-.001 (90%)	0.03	0.01	Bigmouth buffalo
7	0-23 (214%)	.000	.000-.000 (213%)	0.00	0.00	Bighead carp
20	0-61 (206%)	.000	.000-.000 (206%)	0.00	0.00	Black buffalo
8	0-24 (216%)	.000	.000-.000 (216%)	0.00	0.00	Black bullhead
14444	8849-20040 (39%)	.071	.043-.098 (39%)	3.50	1.42	Black crappie
18803	14849-22757 (21%)	.145	.104-.187 (28%)	4.56	1.85	Bluegill
398	98-698 (75%)	.003	.000-.007 (101%)	0.10	0.04	Carp
1868	0-5093 (173%)	.031	.000-.098 (211%)	0.45	0.18	Channel catfish
47	0-102 (116%)	.001	.000-.002 (183%)	0.01	0.00	Crappie spp.
60	0-121 (102%)	.000	.000-.001 (164%)	0.01	0.01	Flathead catfish
4425	3297-5553 (25%)	.018	.013-.022 (26%)	1.07	0.43	Freshwater drum
691	341-1042 (51%)	.008	.000-.017 (103%)	0.17	0.07	Green sunfish
5	0-14 (207%)	.000	.000-.000 (206%)	0.00	0.00	Highfin carpsucker
16	0-47 (199%)	.000	.000-.000 (192%)	0.00	0.00	Longear sunfish x Bluegill
32728	27789-37667 (15%)	.120	.076-.164 (37%)	7.94	3.21	Largemouth bass
2	0-5 (207%)	.000	.000-.000 (208%)	0.00	0.00	Longnose gar
807	437-1176 (46%)	.002	.000-.004 (118%)	0.20	0.08	Muskellunge
12	0-35 (196%)	.000	.000-.000 (196%)	0.00	0.00	Orangespotted sunfish
180	0-403 (124%)	.005	.000-.013 (187%)	0.04	0.02	Rock bass
4	0-11 (159%)	.000	.000-.000 (163%)	0.00	0.00	Redear sunfish
59	0-157 (165%)	.000	.000-.000 (146%)	0.01	0.01	Striped bass x White bass
369	165-573 (55%)	.001	.000-.003 (91%)	0.09	0.04	Shortnose gar
142	12-272 (91%)	.002	.000-.006 (146%)	0.03	0.01	Smallmouth bass
2122	1380-2865 (35%)	.017	.003-.032 (85%)	0.51	0.21	Striped bass
4297	2351-6243 (45%)	.014	.006-.022 (57%)	1.04	0.42	Walleye
192	0-404 (110%)	.000	.000-.001 (178%)	0.05	0.02	Warmouth
30572	20030-41114 (34%)	.165	.093-.237 (43%)	7.41	3.00	White bass
141084	123878-158290 (12%)	.583	.510-.655 (12%)	34.21	13.84	White crappie
188	72-304 (62%)	.002	.000-.004 (163%)	0.05	0.02	Yellow bullhead
169	46-291 (73%)	.002	.000-.003 (71%)	0.04	0.02	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
66480	58447-74514	(12%)	.293	.210-.375 (28%)	16.12	0.262	All species
589	0-1179	(100%)	.002	.000-.004 (104%)	0.14	4.218	Bigmouth buffalo
			****	NOT RECORDED			Bighead carp
8	0-26	(207%)	.000	.000-.000 (206%)	0.00	0.427	Black buffalo
1	0-4	(218%)	.000	.000-.000 (218%)	0.00	0.174	Black bullhead
3030	1843-4218	(39%)	.014	.009-.019 (39%)	0.73	0.210	Black crappie
1240	897-1583	(28%)	.009	.006-.011 (30%)	0.30	0.066	Bluegill
603	35-1172	(94%)	.006	.000-.012 (121%)	0.15	1.516	Carp
2399	0-6153	(156%)	.037	.000-.114 (208%)	0.58	1.284	Channel catfish
7	0-14	(115%)	.000	.000-.000 (190%)	0.00	0.142	Crappie spp.
212	0-427	(101%)	.001	.000-.002 (158%)	0.05	3.542	Flathead catfish
1069	746-1392	(30%)	.004	.003-.005 (36%)	0.26	0.242	Freshwater drum
40	20-60	(50%)	.001	.000-.001 (119%)	0.01	0.058	Green sunfish
0	0-1	(206%)	.000	.000-.000 (207%)	0.00	0.102	Highfin carpsucker
0	0-1	(170%)	.000	.000-.000 (159%)	0.00	0.016	Longear sunfish x Bluegill
15918	13095-18741	(18%)	.048	.032-.065 (34%)	3.86	0.486	Largemouth bass
2	0-5	(208%)	.000	.000-.000 (207%)	0.00	1.143	Longnose gar
2872	1321-4423	(54%)	.008	.000-.017 (124%)	0.70	3.561	Muskellunge
1	0-2	(196%)	.000	.000-.000 (196%)	0.00	0.054	Orangespotted sunfish
12	0-28	(138%)	.000	.000-.000 (129%)	0.00	0.066	Rock bass
0	0-0	(159%)	.000	.000-.000 (163%)	0.00	0.022	Redear sunfish
28	0-74	(164%)	.000	.000-.000 (145%)	0.01	0.476	Striped bass x White bass
397	150-644	(62%)	.001	.000-.002 (99%)	0.10	1.075	Shortnose gar
19	1-36	(92%)	.000	.000-.001 (132%)	0.00	0.132	Smallmouth bass
409	221-597	(46%)	.003	.000-.007 (106%)	0.10	0.193	Striped bass
2675	1206-4144	(55%)	.008	.003-.012 (60%)	0.65	0.623	Walleye
9	0-19	(109%)	.000	.000-.000 (177%)	0.00	0.047	Warmouth
6704	4237-9172	(37%)	.037	.019-.054 (48%)	1.63	0.219	White bass
28190	24669-31712	(12%)	.114	.099-.129 (13%)	6.84	0.200	White crappie
29	11-47	(61%)	.000	.000-.001 (189%)	0.01	0.154	Yellow bullhead
15	7-23	(55%)	.000	.000-.000 (72%)	0.00	0.088	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
146564	128853-164274 (12%)	.645	.464-.826 (28%)	14.38	0.577	All species
1299	0-2598 (100%)	.004	.000-.009 (104%)	0.13	9.300	Bigmouth buffalo
		****	NOT RECORDED ****			Bighead carp
19	0-57 (206%)	.000	.000-.000 (206%)	0.00	0.940	Black buffalo
3	0-9 (218%)	.000	.000-.000 (218%)	0.00	0.383	Black bullhead
6681	4062-9299 (39%)	.031	.019-.043 (39%)	0.66	0.463	Black crappie
2733	1976-3490 (28%)	.019	.014-.025 (30%)	0.27	0.145	Bluegill
1330	76-2583 (94%)	.012	.000-.027 (121%)	0.13	3.342	Carp
5290	0-13565 (156%)	.081	.000-.251 (208%)	0.52	2.831	Channel catfish
15	0-32 (115%)	.000	.000-.001 (190%)	0.00	0.312	Crappie spp.
468	0-941 (101%)	.001	.000-.003 (158%)	0.05	7.810	Flathead catfish
2356	1644-3069 (30%)	.009	.006-.012 (36%)	0.23	0.532	Freshwater drum
88	44-132 (50%)	.001	.000-.003 (119%)	0.01	0.127	Green sunfish
1	0-3 (206%)	.000	.000-.000 (207%)	0.00	0.225	Highfin carpsucker
1	0-1 (170%)	.000	.000-.000 (159%)	0.00	0.035	Longear sunfish x Bluegill
35094	28870-41318 (18%)	.106	.070-.143 (34%)	3.44	1.072	Largemouth bass
4	0-12 (207%)	.000	.000-.000 (208%)	0.00	2.520	Longnose gar
6332	2913-9751 (54%)	.017	.000-.038 (124%)	0.62	7.850	Muskellunge
1	0-4 (196%)	.000	.000-.000 (196%)	0.00	0.120	Orangespotted sunfish
26	0-62 (138%)	.000	.000-.001 (129%)	0.00	0.145	Rock bass
0	0-1 (159%)	.000	.000-.000 (163%)	0.00	0.048	Redear sunfish
62	0-164 (164%)	.000	.000-.000 (145%)	0.01	1.050	Striped bass x White bass
875	331-1419 (62%)	.002	.000-.005 (99%)	0.09	2.370	Shortnose gar
41	3-80 (92%)	.001	.000-.002 (132%)	0.00	0.291	Smallmouth bass
901	486-1316 (46%)	.008	.000-.016 (106%)	0.09	0.425	Striped bass
5898	2659-9137 (55%)	.017	.007-.027 (60%)	0.58	1.373	Walleye
20	0-42 (109%)	.000	.000-.000 (177%)	0.00	0.104	Warmouth
14781	9341-20220 (37%)	.081	.042-.119 (48%)	1.45	0.483	White bass
62149	54385-69913 (12%)	.252	.218-.285 (13%)	6.10	0.441	White crappie
64	25-103 (61%)	.001	.000-.003 (189%)	0.01	0.339	Yellow bullhead
33	15-51 (55%)	.000	.000-.000 (72%)	0.00	0.195	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	5.5	5.4-5.6	(2%)	0.2	13.7	1827
SHORE	1.9	1.6-2.1	(13%)	0.2	10.5	167
BOAT & SHORE	5.2	5.1-5.3	(2%)	0.2	13.7	1994
MILES TRAVELED	68.6	65.3-71.9	(5%)	1	1200	3024
SUCCESS RATING (1-10)	4.6	4.5-4.7	(2%)	1	10	3019

*1420 samples were from split interviews of completed trips.

57.5% of all 3467 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 4 out of 3467 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	671	1597	306	92	17	3	3	1	1	3
SHORE INTERVIEWS	342	277	98	39	9	5		2		1

Table 10. Number of interviews (and %) per species sought for all interviews.

581 (16.8%)	ANY	All species
7 (0.2%)	BLC	Black crappie
15 (0.4%)	BLG	Bluegill
2 (0.1%)	CAP	Carp
33 (1.0%)	CCF	Channel catfish
1583 (45.7%)	CRP	Crappie spp.
710 (20.5%)	LMB	Largemouth bass
146 (4.2%)	MUE	Muskellunge
4 (0.1%)	STB	Striped bass
154 (4.4%)	WAE	Walleye
96 (2.8%)	WHB	White bass
136 (3.9%)	WHC	White crappie

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bigmouth buffalo																
HARVEST	3883	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3877	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black buffalo																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3884	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Black bullhead																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3885	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	3548	157	71	48	29	25	2	3	-	-	3	-	-	-	-	-
RELEASE	3617	77	64	46	15	22	9	2	14	-	9	-	-	6	-	5
Bluegill																
HARVEST	3786	38	11	9	23	5	2	4	-	-	3	-	-	3	-	2
RELEASE	3325	280	110	77	31	26	12	1	10	-	8	-	1	4	-	1
Carp																
HARVEST	3883	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3848	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	3867	15	-	2	-	-	-	-	-	-	-	-	-	-	-	2
RELEASE	3862	20	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Crappie spp.																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3882	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-
Flathead catfish																
HARVEST	3882	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3884	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	3878	4	2	-	-	-	2	-	-	-	-	-	-	-	-	-
RELEASE	3614	180	43	22	2	6	9	-	2	1	4	1	2	-	-	-
Green sunfish																
HARVEST	3877	7	-	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3847	21	6	12	-	-	-	-	-	-	-	-	-	-	-	-
Highfin carpsucker																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11.(cont.) Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Longear sunfish x Bluegill hybrid																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3880	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	3849	34	-	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2354	643	326	158	104	83	63	38	33	13	19	8	10	8	7	19
Longnose gar																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3884	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Muskellunge																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3727	154	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Orangespotted sunfish																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3885	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3873	10	-	-	2	1	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass x White bass hybrid (Wiper)																
HARVEST	3883	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
RELEASE	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shortnose gar																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3849	26	9	-	2	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3877	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	3855	25	3	2	-	-	-	-	-	-	-	-	1	-	-	-
RELEASE	3737	113	20	11	2	1	1	-	-	-	-	-	1	-	-	-
Walleye																
HARVEST	3778	83	16	1	-	3	5	-	-	-	-	-	-	-	-	-
RELEASE	3716	118	23	10	8	6	1	2	-	-	-	-	-	2	-	-
Warmouth																
HARVEST	3886	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3875	2	-	-	2	2	2	3	-	-	-	-	-	-	-	-

Table 11.(cont) Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
White bass																
HARVEST	3755	44	13	14	8	7	11	2	9	-	8	-	-	4	-	11
RELEASE	3470	227	49	39	19	23	5	5	6	2	11	-	7	-	-	23
White crappie																
HARVEST	2346	261	187	183	154	164	80	71	113	79	244	-	-	-	-	4
RELEASE	1913	433	288	283	164	198	110	50	81	19	103	13	26	50	6	149
Yellow bullhead																
HARVEST	3884	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3870	14	-	-	-	-	-	-	-	2	-	-	-	-	-	-
Yellow bass																
HARVEST	3884	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3878	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 SHELBYVILLE TAILW
 6 ACRES
 REGION 0, DISTRICT 0

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 304/693 = 43.9%

NUMBER OF INTERVIEWS: 2471

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	912	579-1246 (37%)	163	103-222 (37%)	10%
	HOLIDAY	716	534-899 (25%)	128	95-160 (25%)	17%
	TOTAL	1629	1248-2009 (23%)	291	223-359 (23%)	13%
SHORE	WEEKDAY	11717	10522-12911 (10%)	2092	1879-2306 (10%)	17%
	HOLIDAY	11802	10497-13107 (11%)	2107	1875-2340 (11%)	33%
	TOTAL	23519	21750-25288 (8%)	4200	3884-4516 (8%)	25%
BOAT & SHORE	WEEKDAY	12629	11389-13869 (10%)	2255	2034-2477 (10%)	17%
	HOLIDAY	12518	11201-13835 (11%)	2235	2000-2471 (11%)	32%
	TOTAL	25147	23338-26957 (7%)	4491	4168-4814 (7%)	25%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2096	1687-2506	(20%)	.052	.034-.070 (35%)	925.00	374.34	All species
438	202-674	(54%)	.013	.000-.027 (105%)	193.38	78.26	Bigmouth buffalo
32	0-103	(220%)	.000	.000-.001 (147%)	14.22	5.75	Black buffalo
8	0-27	(220%)	.000	.000-.000 (223%)	3.66	1.48	Black bullhead
3	0-11	(231%)	.000	.000-.000 (231%)	1.52	0.62	Black crappie
465	276-654	(41%)	.007	.004-.010 (43%)	205.00	82.96	Bluegill
5	0-16	(196%)	.000	.000-.000 (194%)	2.41	0.98	Bowfin
			****	NOT RECORDED ****			Unidentified buffalo
62	27-97	(57%)	.002	.000-.003 (75%)	27.37	11.08	Carp
140	60-220	(57%)	.004	.001-.006 (68%)	61.83	25.02	Channel catfish
145	80-210	(45%)	.004	.002-.006 (55%)	63.82	25.83	Flathead catfish
119	42-197	(65%)	.002	.001-.003 (66%)	52.62	21.30	Freshwater drum
			****	NOT RECORDED ****			Unidentified Gar
2	0-8	(278%)	.000	.000-.000 (278%)	0.88	0.36	Grass carp
12	0-30	(150%)	.000	.000-.001 (156%)	5.21	2.11	Green sunfish
7	0-22	(236%)	.000	.000-.000 (231%)	2.94	1.19	Gizzard shad
44	2-86	(95%)	.001	.000-.002 (107%)	19.38	7.84	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
4	0-12	(220%)	.000	.000-.000 (220%)	1.69	0.68	Orangespotted sunfish
4	0-15	(278%)	.000	.000-.000 (318%)	1.70	0.69	Rock bass
4	0-11	(151%)	.000	.000-.000 (156%)	1.96	0.79	Smallmouth buffalo
25	0-85	(235%)	.000	.000-.001 (291%)	11.14	4.51	Sauger
15	0-41	(177%)	.000	.000-.001 (213%)	6.58	2.66	Shortnose gar
			****	NOT RECORDED ****			Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
72	13-132	(82%)	.001	.000-.002 (97%)	31.89	12.91	Striped bass
			****	NOT RECORDED ****			Sunfish spp. Excl. crappie
			****	NOT RECORDED ****			Tiger muskie
7	0-23	(223%)	.000	.000-.000 (223%)	3.13	1.27	Quillback
237	126-348	(47%)	.013	.001-.024 (94%)	104.52	42.30	Walleye
140	65-214	(53%)	.003	.001-.004 (59%)	61.60	24.93	White bass
105	46-164	(56%)	.002	.001-.004 (73%)	46.52	18.83	White crappie
			****	NOT RECORDED ****			Yellow bullhead

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2765	1802-3728	(35%)	.087	.050-.124 (43%)	1220.08	1.319	All species
875	373-1376	(57%)	.022	.008-.036 (64%)	385.92	1.996	Bigmouth buffalo
60	0-205	(240%)	.000	.000-.001 (164%)	26.60	1.871	Black buffalo
7	0-21	(220%)	.000	.000-.000 (220%)	2.87	0.785	Black bullhead
1	0-3	(236%)	.000	.000-.000 (231%)	0.35	0.227	Black crappie
32	20-44	(38%)	.000	.000-.001 (47%)	14.13	0.069	Bluegill
1	0-4	(228%)	.000	.000-.000 (225%)	0.51	0.212	Bowfin
			****	NOT RECORDED ****			Unidentified buffalo
53	23-83	(56%)	.001	.000-.002 (80%)	23.52	0.859	Carp
262	57-466	(78%)	.008	.001-.016 (91%)	115.51	1.868	Channel catfish
789	106-1472	(87%)	.025	.001-.050 (97%)	348.02	5.453	Flathead catfish
99	27-171	(73%)	.003	.000-.008 (124%)	43.65	0.829	Freshwater drum
			****	NOT RECORDED ****			Unidentified Gar
4	0-16	(278%)	.000	.000-.001 (318%)	1.87	2.118	Grass carp
1	0-3	(149%)	.000	.000-.000 (158%)	0.51	0.098	Green sunfish
0	0-0	(231%)	.000	.000-.000 (236%)	0.07	0.022	Gizzard shad
67	0-173	(159%)	.002	.000-.004 (159%)	29.35	1.515	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
0	0-1	(220%)	.000	.000-.000 (220%)	0.20	0.118	Orangespotted sunfish
2	0-6	(278%)	.000	.000-.000 (318%)	0.67	0.393	Rock bass
7	0-18	(171%)	.000	.000-.000 (149%)	2.94	1.501	Smallmouth buffalo
94	0-237	(152%)	.001	.000-.004 (259%)	41.59	3.732	Sauger
17	0-52	(207%)	.000	.000-.001 (218%)	7.47	1.135	Shortnose gar
			****	NOT RECORDED ****			Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
19	1-38	(97%)	.000	.000-.000 (79%)	8.60	0.270	Striped bass
			****	NOT RECORDED ****			Sunfish spp. excl. crappie
			****	NOT RECORDED ****			Tiger muskie
25	0-80	(223%)	.001	.000-.002 (220%)	10.95	3.494	Quillback
290	69-512	(76%)	.020	.000-.046 (134%)	128.17	1.226	Walleye
35	11-60	(70%)	.001	.000-.001 (94%)	15.61	0.253	White bass
25	11-39	(56%)	.001	.000-.001 (84%)	11.02	0.237	White crappie
			****	NOT RECORDED ****			Yellow bullhead

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6096	3972-8220	(35%)	.191	.109-.272 (43%)	1088.55	2.908	All species
1928	823-3034	(57%)	.049	.017-.080 (64%)	344.31	4.400	Bigmouth buffalo
133	0-452	(240%)	.001	.000-.002 (164%)	23.73	4.125	Black buffalo
14	0-46	(223%)	.000	.000-.001 (223%)	2.56	1.730	Black bullhead
2	0-6	(231%)	.000	.000-.000 (231%)	0.31	0.501	Black crappie
71	44-97	(38%)	.001	.001-.001 (47%)	12.61	0.152	Bluegill
3	0-8	(228%)	.000	.000-.000 (225%)	0.46	0.467	Bowfin
			****	NOT RECORDED ****			Unidentified buffalo
118	52-183	(56%)	.003	.001-.005 (80%)	20.99	1.895	Carp
577	127-1028	(78%)	.019	.002-.035 (91%)	103.06	4.119	Channel catfish
1739	233-3244	(87%)	.056	.002-.111 (97%)	310.50	12.023	Flathead catfish
218	59-377	(73%)	.007	.000-.017 (124%)	38.94	1.829	Freshwater drum
			****	NOT RECORDED ****			Unidentified Gar
9	0-35	(278%)	.000	.000-.001 (318%)	1.67	4.668	Grass carp
3	0-6	(149%)	.000	.000-.000 (158%)	0.46	0.216	Green sunfish
0	0-1	(236%)	.000	.000-.000 (236%)	0.06	0.049	Gizzard shad
147	0-380	(159%)	.004	.000-.010 (159%)	26.19	3.339	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
1	0-3	(223%)	.000	.000-.000 (220%)	0.18	0.261	Orangespotted sunfish
3	0-13	(278%)	.000	.000-.000 (318%)	0.60	0.867	Rock bass
15	0-40	(171%)	.000	.000-.001 (149%)	2.62	3.309	Smallmouth buffalo
208	0-524	(152%)	.003	.000-.009 (259%)	37.10	8.227	Sauger
37	0-115	(207%)	.001	.000-.003 (218%)	6.66	2.501	Shortnose gar
			****	NOT RECORDED ****			Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
43	1-85	(97%)	.000	.000-.001 (79%)	7.67	0.594	Striped bass
			****	NOT RECORDED ****			Sunfish spp. excl. crappie
			****	NOT RECORDED ****			Tiger muskie
55	0-175	(220%)	.001	.000-.004 (223%)	9.77	7.703	Quillback
640	153-1128	(76%)	.043	.000-.101 (134%)	114.35	2.703	Walleye
78	23-132	(70%)	.002	.000-.003 (94%)	13.93	0.559	White bass
55	24-86	(56%)	.001	.000-.002 (84%)	9.84	0.522	White crappie
			****	NOT RECORDED ****			Yellow bullhead

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
10601	9318-11884 (12%)	.246	.211-.281 (14%)	4677.80	1893.08	All species
967	665-1268 (31%)	.026	.011-.040 (56%)	426.50	172.60	Bigmouth buffalo
40	0-112 (182%)	.001	.000-.001 (107%)	17.60	7.12	Black buffalo
8	0-27 (220%)	.000	.000-.000 (223%)	3.66	1.48	Black bullhead
51	0-115 (124%)	.001	.000-.003 (166%)	22.66	9.17	Black crappie
2047	1654-2440 (19%)	.032	.024-.040 (24%)	903.22	365.53	Bluegill
51	22-79 (57%)	.001	.000-.001 (77%)	22.36	9.05	Bowfin
74	0-275 (270%)	.000	.000-.002 (271%)	32.83	13.29	Unidentified buffalo
403	283-523 (30%)	.009	.006-.013 (35%)	177.85	71.98	Carp
184	100-268 (46%)	.005	.002-.007 (60%)	81.08	32.81	Channel catfish
204	133-274 (35%)	.005	.003-.008 (46%)	89.80	36.34	Flathead catfish
969	720-1219 (26%)	.015	.010-.019 (30%)	427.65	173.07	Freshwater drum
21	0-89 (318%)	.001	.000-.007 (430%)	9.41	3.81	Unidentified Gar
2	0-8 (278%)	.000	.000-.000 (278%)	0.88	0.36	Grass carp
119	26-213 (78%)	.002	.000-.003 (92%)	52.67	21.31	Green sunfish
18	0-40 (128%)	.000	.000-.001 (140%)	7.79	3.15	Gizzard shad
290	189-391 (35%)	.008	.004-.012 (54%)	128.12	51.85	Largemouth bass
1663	1226-2099 (26%)	.063	.043-.084 (32%)	733.59	296.88	Muskellunge
4	0-12 (220%)	.000	.000-.000 (220%)	1.69	0.68	Orangespotted sunfish
60	0-160 (169%)	.001	.000-.002 (147%)	26.32	10.65	Rock bass
20	0-45 (122%)	.000	.000-.001 (101%)	8.94	3.62	Smallmouth buffalo
85	0-190 (124%)	.002	.000-.005 (166%)	37.34	15.11	Sauger
938	666-1210 (29%)	.014	.009-.018 (31%)	413.84	167.48	Shortnose gar
3	0-8 (236%)	.000	.000-.000 (236%)	1.11	0.45	Shorthead redhorse
29	0-62 (117%)	.001	.000-.002 (130%)	12.65	5.12	Smallmouth bass
370	153-587 (59%)	.005	.002-.007 (55%)	163.36	66.11	Striped bass
18	0-43 (142%)	.000	.000-.000 (146%)	7.86	3.18	Sunfish spp. excl. crappie
6	0-17 (164%)	.001	.000-.002 (171%)	2.81	1.14	Tiger muskie
7	0-23 (223%)	.000	.000-.000 (223%)	3.13	1.27	Quillback
645	333-957 (48%)	.023	.010-.036 (58%)	284.47	115.12	Walleye
822	477-1168 (42%)	.022	.010-.034 (55%)	362.82	146.83	White bass
477	249-705 (48%)	.008	.004-.011 (48%)	210.49	85.18	White crappie
2	0-6 (236%)	.000	.000-.000 (231%)	0.72	0.29	Yellow bullhead

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA AVE KG	SPECIES
14755	1933-27577 (87%)	.459	.195-.722 (57%)	6510.72	1.392 All species
2477	1586-3367 (36%)	.059	.034-.083 (41%)	1092.91	2.562 Bigmouth buffalo
72	0-219 (205%)	.001	.000-.002 (105%)	31.67	1.799 Black buffalo
7	0-21 (220%)	.000	.000-.000 (220%)	2.87	0.785 Black bullhead
9	0-20 (128%)	.000	.000-.001 (178%)	3.77	0.167 Black crappie
107	84-130 (21%)	.002	.001-.002 (24%)	47.20	0.052 Bluegill
9	0-19 (96%)	.000	.000-.000 (155%)	4.16	0.186 Bowfin
		****	NOT RECORDED ****		Unidentified buffalo
299	195-403 (35%)	.008	.003-.013 (61%)	131.91	0.742 Carp
311	104-519 (67%)	.009	.001-.017 (84%)	137.37	1.694 Channel catfish
987	300-1673 (70%)	.031	.007-.056 (79%)	435.38	4.848 Flathead catfish
287	188-386 (35%)	.007	.002-.011 (67%)	126.68	0.296 Freshwater drum
		****	NOT RECORDED ****		Unidentified Gar
4	0-16 (278%)	.000	.000-.001 (318%)	1.87	2.118 Grass carp
6	1-11 (80%)	.000	.000-.000 (114%)	2.78	0.053 Green sunfish
1	0-1 (149%)	.000	.000-.000 (154%)	0.22	0.028 Gizzard shad
215	90-340 (58%)	.009	.002-.015 (73%)	94.84	0.740 Largemouth bass
5682	3940-7424 (31%)	.213	.141-.286 (34%)	2507.32	3.418 Muskellunge
0	0-1 (220%)	.000	.000-.000 (220%)	0.20	0.118 Orangespotted sunfish
4	0-8 (125%)	.000	.000-.000 (111%)	1.55	0.059 Rock bass
62	0-176 (186%)	.001	.000-.002 (147%)	27.23	3.046 Smallmouth buffalo
3008	0-15097 (402%)	.077	.000-.388 (407%)	1327.29	35.550 Sauger
440	286-594 (35%)	.007	.004-.011 (49%)	194.15	0.469 Shortnose gar
1	0-3 (236%)	.000	.000-.000 (236%)	0.41	0.370 Shorthead redhorse
8	0-19 (146%)	.000	.000-.000 (138%)	3.42	0.271 Smallmouth bass
74	26-123 (65%)	.001	.000-.003 (105%)	32.74	0.200 Striped bass
1	0-4 (183%)	.000	.000-.000 (185%)	0.62	0.079 Sunfish spp. excl. crappie
37	0-92 (150%)	.004	.000-.010 (152%)	16.27	5.782 Tiger muskie
25	0-80 (223%)	.001	.000-.002 (220%)	10.95	3.494 Quillback
429	201-656 (53%)	.024	.000-.050 (110%)	189.16	0.665 Walleye
122	74-169 (39%)	.004	.001-.007 (65%)	53.70	0.148 White bass
72	36-108 (49%)	.001	.001-.002 (52%)	31.88	0.151 White crappie
0	0-1 (231%)	.000	.000-.000 (236%)	0.17	0.235 Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
32530	4261-60798 (87%)	1.012	.431-1.593 (57%)	5808.85	3.068	All species
5461	3497-7424 (36%)	.129	.076-.183 (41%)	975.09	5.649	Bigmouth buffalo
158	0-483 (205%)	.002	.000-.004 (105%)	28.25	3.967	Black buffalo
14	0-46 (223%)	.000	.000-.001 (223%)	2.56	1.730	Black bullhead
19	0-43 (128%)	.000	.000-.001 (178%)	3.37	0.367	Black crappie
236	186-286 (21%)	.004	.003-.004 (24%)	42.11	0.115	Bluegill
21	1-41 (96%)	.000	.000-.001 (155%)	3.71	0.410	Bowfin
		****	NOT RECORDED ****			Unidentified buffalo
659	430-888 (35%)	.018	.007-.030 (61%)	117.69	1.635	Carp
686	228-1144 (67%)	.020	.003-.037 (84%)	122.56	3.735	Channel catfish
2175	661-3689 (70%)	.069	.015-.124 (79%)	388.45	10.689	Flathead catfish
633	414-852 (35%)	.015	.005-.025 (67%)	113.02	0.653	Freshwater drum
		****	NOT RECORDED ****			Unidentified Gar
9	0-35 (278%)	.000	.000-.001 (318%)	1.67	4.668	Grass carp
14	3-25 (80%)	.000	.000-.001 (114%)	2.48	0.116	Green sunfish
1	0-3 (149%)	.000	.000-.000 (154%)	0.20	0.063	Gizzard shad
474	198-750 (58%)	.019	.005-.033 (73%)	84.62	1.632	Largemouth bass
12527	8687-16368 (31%)	.470	.311-.630 (34%)	2237.03	7.535	Muskellunge
1	0-3 (223%)	.000	.000-.000 (220%)	0.18	0.261	Orangespotted sunfish
8	0-17 (125%)	.000	.000-.000 (111%)	1.39	0.130	Rock bass
136	0-389 (186%)	.002	.000-.005 (147%)	24.30	6.716	Smallmouth buffalo
6632	0-33282 (402%)	.169	.000-.855 (407%)	1184.20	78.375	Sauger
970	631-1309 (35%)	.016	.008-.023 (49%)	173.22	1.034	Shortnose gar
2	0-7 (231%)	.000	.000-.000 (231%)	0.37	0.816	Shorthead redhorse
17	0-42 (146%)	.000	.000-.001 (138%)	3.05	0.596	Smallmouth bass
164	57-271 (65%)	.003	.000-.006 (105%)	29.21	0.442	Striped bass
3	0-9 (183%)	.000	.000-.000 (185%)	0.55	0.174	Sunfish spp. excl. crappie
81	0-203 (150%)	.009	.000-.022 (152%)	14.51	12.748	Tiger muskie
55	0-175 (220%)	.001	.000-.004 (223%)	9.77	7.703	Quillback
945	443-1447 (53%)	.052	.000-.109 (110%)	168.77	1.466	Walleye
268	163-374 (39%)	.009	.003-.015 (65%)	47.92	0.326	White bass
159	80-238 (49%)	.003	.001-.004 (52%)	28.44	0.334	White crappie
1	0-3 (231%)	.000	.000-.000 (236%)	0.15	0.519	Yellow bullhead

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.2	2.1-4.3 (34%)	0.8	7.2	15
SHORE	1.4	1.2-1.7 (15%)	0.2	8.0	141
BOAT & SHORE	1.6	1.4-1.8 (14%)	0.2	8.0	156
MILES TRAVELED	69.6	64.9-74.3 (7%)	1	2000	2169
SUCCESS RATING (1-10)	3.8	3.6-3.9 (3%)	1	10	2166

*33 samples were from split interviews of completed trips.
6.4% of all 2442 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 2442 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	18	30	6	1						
SHORE INTERVIEWS	818	915	351	194	59	30	5	6	3	6

Table 10. Number of interviews (and %) per species sought for all interviews.

1476 (60.4%)	ANY	All species
18 (0.7%)	BGB	Bigmouth buffalo
10 (0.4%)	BLG	Bluegill
1 (0.0%)	BUF	Unidentified buffalo
24 (1.0%)	CAP	Carp
1 (0.0%)	CAT	Unidentified catfish
259 (10.6%)	CCF	Channel catfish
27 (1.1%)	CRP	Crappie spp.
7 (0.3%)	FCF	Flathead catfish
2 (0.1%)	FRD	Freshwater drum
19 (0.8%)	LMB	Largemouth bass
359 (14.7%)	MUE	Muskellunge
1 (0.0%)	SHG	Shortnose gar
1 (0.0%)	SMB	Smallmouth bass
6 (0.2%)	STB	Striped bass
213 (8.7%)	WAE	Walleye
18 (0.7%)	WHB	White bass

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bigmouth buffalo																
HARVEST	322	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	322	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	317	5	4	1	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	309	16	2	1	-	-	-	-	-	-	-	-	-	-	-	-
Bowfin																
HARVEST	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	322	5	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	325	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flathead catfish																
HARVEST	319	5	2	-	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	326	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	323	3	-	1	1	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	327	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	323	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-
Muskellunge																
HARVEST	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	310	12	3	1	-	1	-	-	-	-	1	-	-	-	-	-
Shortnose gar																
HARVEST	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	321	6	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	324	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	319	4	-	4	-	-	-	-	-	1	-	-	-	-	-	-
Quillback																
HARVEST	325	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11.(cont.) Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Walleye																
HARVEST	320	6	-	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	318	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	328	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	325	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	327	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	327	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 STERLING LAKE
 68 ACRES
 REGION 2, DISTRICT 7

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 304/693 = 43.9%

NUMBER OF INTERVIEWS: 1723

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	1265	869-1661 (31%)	18	13-24 (31%)	24%
	HOLIDAY	2822	2410-3234 (15%)	41	35-47 (15%)	48%
	TOTAL	4087	3516-4659 (14%)	60	51-68 (14%)	40%
SHORE	WEEKDAY	6295	5176-7415 (18%)	92	76-108 (18%)	16%
	HOLIDAY	8696	7810-9582 (10%)	127	114-140 (10%)	37%
	TOTAL	14991	13564-16419 (10%)	219	198-240 (10%)	28%
BOAT & SHORE	WEEKDAY	7560	6373-8748 (16%)	110	93-128 (16%)	17%
	HOLIDAY	11518	10541-12495 (8%)	168	154-182 (8%)	39%
	TOTAL	19079	17541-20616 (8%)	279	256-301 (8%)	31%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2378	1657-3099	(30%)	.103	.055-.152 (47%)	85.79	34.72	All species
			****	NOT RECORDED			Black bullhead
1581	886-2277	(44%)	.067	.027-.107 (60%)	57.04	23.08	Black crappie
438	168-708	(62%)	.025	.000-.059 (133%)	15.78	6.39	Bluegill
12	0-27	(120%)	.000	.000-.001 (100%)	0.44	0.18	Bowfin
138	77-199	(44%)	.003	.001-.006 (76%)	4.97	2.01	Carp
48	18-77	(63%)	.001	.000-.002 (75%)	1.71	0.69	Channel catfish
			****	NOT RECORDED			Green sunfish
8	0-19	(134%)	.000	.000-.000 (127%)	0.29	0.12	Largemouth bass
4	0-8	(122%)	.000	.000-.000 (143%)	0.13	0.05	Muskellunge
2	0-6	(223%)	.000	.000-.000 (220%)	0.06	0.03	Northern pike
			****	NOT RECORDED			Smallmouth bass
81	37-125	(54%)	.003	.001-.005 (69%)	2.91	1.18	Walleye
39	6-72	(85%)	.002	.000-.004 (97%)	1.40	0.57	Warmouth
			****	NOT RECORDED			White bass
4	0-11	(155%)	.000	.000-.000 (156%)	0.16	0.06	Yellow bullhead
22	1-44	(96%)	.001	.000-.001 (139%)	0.80	0.32	Yellow perch
2	0-7	(236%)	.000	.000-.000 (236%)	0.07	0.03	Yellow bass

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
496	379-614	(24%)	.017	.012-.023 (30%)	17.91	0.209	All species
			****	NOT RECORDED			Black bullhead
167	94-241	(44%)	.007	.003-.012 (58%)	6.04	0.106	Black crappie
19	8-30	(60%)	.001	.000-.002 (115%)	0.68	0.043	Bluegill
4	0-9	(134%)	.000	.000-.000 (115%)	0.14	0.319	Bowfin
163	86-239	(47%)	.004	.001-.007 (80%)	5.87	1.179	Carp
51	17-86	(68%)	.001	.000-.002 (87%)	1.84	1.076	Channel catfish
			****	NOT RECORDED			Green sunfish
7	0-20	(187%)	.000	.000-.000 (162%)	0.25	0.844	Largemouth bass
11	0-26	(138%)	.000	.000-.001 (141%)	0.40	2.986	Muskellunge
3	0-10	(220%)	.000	.000-.001 (223%)	0.12	1.823	Northern pike
			****	NOT RECORDED			Smallmouth bass
62	30-93	(51%)	.003	.001-.004 (63%)	2.23	0.764	Walleye
8	0-15	(95%)	.000	.000-.001 (99%)	0.28	0.197	Warmouth
			****	NOT RECORDED			White bass
1	0-1	(152%)	.000	.000-.000 (160%)	0.02	0.120	Yellow bullhead
1	0-2	(100%)	.000	.000-.000 (147%)	0.03	0.043	Yellow perch
0	0-2	(245%)	.000	.000-.000 (245%)	0.02	0.236	Yellow bass

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1094	835-1354	(24%)	.039	.027-.050 (30%)	15.98	0.460	All species
			****	NOT RECORDED ****			Black bullhead
369	206-532	(44%)	.016	.007-.026 (58%)	5.39	0.233	Black crappie
42	17-67	(60%)	.002	.000-.004 (115%)	0.61	0.095	Bluegill
9	0-20	(134%)	.000	.000-.000 (115%)	0.12	0.703	Bowfin
358	190-527	(47%)	.009	.002-.016 (80%)	5.23	2.600	Carp
113	37-189	(68%)	.003	.000-.005 (87%)	1.65	2.372	Channel catfish
			****	NOT RECORDED ****			Green sunfish
15	0-43	(187%)	.000	.000-.001 (162%)	0.22	1.861	Largemouth bass
24	0-58	(138%)	.001	.000-.002 (141%)	0.36	6.582	Muskellunge
7	0-23	(223%)	.000	.000-.001 (220%)	0.10	4.020	Northern pike
			****	NOT RECORDED ****			Smallmouth bass
136	66-206	(51%)	.006	.002-.009 (63%)	1.99	1.685	Walleye
17	1-33	(95%)	.001	.000-.002 (99%)	0.25	0.434	Warmouth
			****	NOT RECORDED ****			White bass
1	0-3	(152%)	.000	.000-.000 (160%)	0.02	0.264	Yellow bullhead
2	0-4	(100%)	.000	.000-.000 (147%)	0.03	0.095	Yellow perch
1	0-4	(236%)	.000	.000-.000 (236%)	0.02	0.521	Yellow bass

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
11377	9661-13093	(15%)	.479	.307-.651 (36%)	410.40	166.09	All species
14	0-38	(175%)	.000	.000-.001 (167%)	0.49	0.20	Black bullhead
4002	2561-5443	(36%)	.219	.041-.397 (81%)	144.36	58.42	Black crappie
4531	3623-5439	(20%)	.154	.100-.208 (35%)	163.44	66.14	Bluegill
27	5-48	(81%)	.001	.000-.001 (75%)	0.96	0.39	Bowfin
203	135-271	(33%)	.005	.003-.008 (51%)	7.32	2.96	Carp
175	109-241	(38%)	.005	.002-.008 (55%)	6.32	2.56	Channel catfish
107	0-290	(171%)	.001	.000-.004 (191%)	3.86	1.56	Green sunfish
780	579-981	(26%)	.037	.023-.051 (38%)	28.15	11.39	Largemouth bass
51	18-83	(64%)	.002	.001-.004 (56%)	1.83	0.74	Muskellunge
26	1-51	(98%)	.001	.000-.001 (93%)	0.92	0.37	Northern pike
72	18-125	(75%)	.002	.000-.004 (104%)	2.59	1.05	Smallmouth bass
820	582-1059	(29%)	.030	.019-.040 (34%)	29.59	11.97	Walleye
163	13-313	(92%)	.005	.001-.008 (69%)	5.88	2.38	Warmouth
22	0-72	(220%)	.001	.000-.005 (220%)	0.81	0.33	White bass
120	14-227	(89%)	.004	.000-.009 (102%)	4.34	1.76	Yellow bullhead
263	174-351	(34%)	.010	.005-.016 (53%)	9.47	3.83	Yellow perch
2	0-7	(236%)	.000	.000-.000 (236%)	0.07	0.03	Yellow bass

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1613	1384-1842 (14%)	.069	.053-.084 (23%)	58.18	0.142	All species
4	0-13 (190%)	.000	.000-.000 (169%)	0.16	0.321	Black bullhead
276	178-374 (35%)	.016	.004-.029 (77%)	9.96	0.069	Black crappie
174	133-214 (23%)	.005	.004-.007 (32%)	6.27	0.038	Bluegill
6	0-11 (99%)	.000	.000-.000 (91%)	0.20	0.209	Bowfin
220	139-301 (37%)	.006	.003-.009 (57%)	7.93	1.084	Carp
95	53-137 (44%)	.003	.001-.004 (57%)	3.42	0.541	Channel catfish
4	0-10 (178%)	.000	.000-.000 (193%)	0.13	0.035	Green sunfish
307	193-421 (37%)	.017	.007-.028 (58%)	11.07	0.393	Largemouth bass
116	45-187 (61%)	.007	.001-.012 (82%)	4.18	2.291	Muskellunge
42	0-94 (126%)	.001	.000-.002 (126%)	1.51	1.632	Northern pike
13	3-24 (76%)	.000	.000-.001 (87%)	0.48	0.187	Smallmouth bass
314	214-415 (32%)	.011	.007-.015 (38%)	11.34	0.383	Walleye
22	5-39 (78%)	.001	.000-.001 (70%)	0.78	0.133	Warmouth
2	0-5 (220%)	.000	.000-.000 (223%)	0.06	0.074	White bass
11	4-18 (63%)	.000	.000-.001 (77%)	0.39	0.090	Yellow bullhead
8	4-12 (51%)	.000	.000-.001 (106%)	0.28	0.030	Yellow perch
0	0-2 (245%)	.000	.000-.000 (245%)	0.02	0.236	Yellow bass

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3556	3050-4061 (14%)	.151	.116-.186 (23%)	51.91	0.313	All species
10	0-28 (190%)	.000	.000-.001 (169%)	0.14	0.707	Black bullhead
609	393-825 (35%)	.036	.008-.063 (77%)	8.89	0.152	Black crappie
383	294-472 (23%)	.012	.008-.016 (32%)	5.59	0.085	Bluegill
12	0-24 (99%)	.000	.000-.001 (91%)	0.18	0.460	Bowfin
485	306-664 (37%)	.013	.006-.021 (57%)	7.08	2.389	Carp
209	116-301 (44%)	.006	.002-.009 (57%)	3.05	1.193	Channel catfish
8	0-23 (178%)	.000	.000-.000 (193%)	0.12	0.077	Green sunfish
677	426-927 (37%)	.038	.016-.061 (58%)	9.88	0.867	Largemouth bass
256	100-412 (61%)	.015	.003-.027 (82%)	3.73	5.051	Muskellunge
92	0-208 (126%)	.002	.000-.005 (126%)	1.34	3.598	Northern pike
30	7-52 (76%)	.001	.000-.002 (87%)	0.43	0.412	Smallmouth bass
693	472-914 (32%)	.024	.015-.034 (38%)	10.12	0.845	Walleye
48	10-85 (78%)	.002	.001-.003 (70%)	0.70	0.293	Warmouth
4	0-12 (223%)	.000	.000-.001 (223%)	0.05	0.162	White bass
24	9-39 (63%)	.001	.000-.001 (77%)	0.35	0.197	Yellow bullhead
17	8-26 (51%)	.001	.000-.002 (106%)	0.25	0.065	Yellow perch
1	0-4 (236%)	.000	.000-.000 (236%)	0.02	0.521	Yellow bass

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.8	3.5-4.1 (8%)		0.6	9.3	202
SHORE	1.8	1.7-1.9 (6%)		0.2	8.8	360
BOAT & SHORE	2.5	2.4-2.7 (6%)		0.2	9.3	562
MILES TRAVELED						
	17.1	15.7-18.5 (8%)		1	850	1405
SUCCESS RATING (1-10)	6.5	6.4-6.7 (2%)		1	10	1103

*174 samples were from split interviews of completed trips.
36.4% of all 1542 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 1542 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	88	132	44	4	1					
SHORE INTERVIEWS	416	509	179	119	33	12	2	2		1

Table 10. Number of interviews (and %) per species sought for all interviews.

831 (53.9%)	ANY	All species
1 (0.1%)	BLB	Black bullhead
112 (7.3%)	BLC	Black crappie
26 (1.7%)	BLG	Bluegill
77 (5.0%)	CAP	Carp
74 (4.8%)	CCF	Channel catfish
140 (9.1%)	LMB	Largemouth bass
127 (8.2%)	MUE	Muskellunge
23 (1.5%)	NOP	Northern pike
2 (0.1%)	SMB	Smallmouth bass
129 (8.4%)	WAE	Walleye

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black bullhead																
HARVEST	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1068	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1028	2	3	7	10	-	-	3	5	4	1	-	-	2	-	4
RELEASE	978	39	10	16	8	4	-	1	7	-	4	-	-	-	-	2
Bluegill																
HARVEST	1055	6	3	2	3	-	-	-	-	-	-	-	-	-	-	-
RELEASE	889	91	30	35	6	6	1	4	2	2	-	-	-	2	-	1
Bowfin																
HARVEST	1065	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1067	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	1062	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1056	12	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	1064	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1042	22	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1063	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	965	81	10	6	4	2	-	-	1	-	-	-	-	-	-	-
Muskellunge																
HARVEST	1067	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1056	12	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	1067	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1065	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1065	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	1046	17	4	-	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	979	48	7	8	4	11	4	2	2	-	-	-	3	-	-	1

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Warmouth																	
HARVEST	1061	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1052	14	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																	
HARVEST	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1067	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																	
HARVEST	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1058	5	3	2	-	-	1	-	-	-	-	-	-	-	-	-	-
Yellow perch																	
HARVEST	1067	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1041	24	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																	
HARVEST	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1069	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 WALNUT POINT LAKE
 52 ACRES
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 303/693 = 43.7%

NUMBER OF INTERVIEWS: 1437

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	5576	4750-6401 (15%)	107	91-122 (15%)	16%
	HOLIDAY	5426	4703-6150 (13%)	104	90-118 (13%)	31%
	TOTAL	11002	9905-12099 (10%)	210	189-231 (10%)	23%
SHORE	WEEKDAY	3568	2923-4213 (18%)	68	56-81 (18%)	15%
	HOLIDAY	3188	2715-3661 (15%)	61	52-70 (15%)	26%
	TOTAL	6756	5956-7556 (12%)	129	114-144 (12%)	20%
BOAT & SHORE	WEEKDAY	9144	8096-10191 (11%)	175	155-195 (11%)	16%
	HOLIDAY	8614	7750-9478 (10%)	165	148-181 (10%)	29%
	TOTAL	17758	16400-19116 (8%)	340	314-366 (8%)	22%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3037	2472-3602	(19%)	.131	.104-.157 (20%)	143.48	58.07	All species
510	278-743	(46%)	.019	.009-.029 (52%)	24.10	9.75	Black crappie
1332	1015-1650	(24%)	.054	.039-.069 (28%)	62.94	25.47	Bluegill
302	173-430	(43%)	.013	.006-.019 (53%)	14.25	5.77	Channel catfish
			****	NOT RECORDED	****		Crappie spp.
5	0-28	(430%)	.000	.000-.000 (430%)	0.25	0.10	Green sunfish
648	415-881	(36%)	.031	.019-.044 (40%)	30.62	12.39	Largemouth bass
220	107-333	(51%)	.014	.001-.026 (92%)	10.39	4.20	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
20	0-54	(174%)	.000	.000-.001 (173%)	0.93	0.38	White crappie

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
763	620-907	(19%)	.034	.027-.040 (20%)	36.06	0.251	All species
115	62-168	(46%)	.004	.002-.007 (53%)	5.44	0.226	Black crappie
229	176-283	(23%)	.009	.007-.012 (28%)	10.84	0.172	Bluegill
114	63-166	(45%)	.005	.002-.007 (53%)	5.39	0.378	Channel catfish
			****	NOT RECORDED	****		Crappie spp.
1	0-5	(430%)	.000	.000-.000 (430%)	0.04	0.176	Green sunfish
235	150-321	(36%)	.011	.007-.015 (38%)	11.12	0.363	Largemouth bass
65	29-100	(55%)	.004	.000-.008 (99%)	3.05	0.294	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
4	0-10	(177%)	.000	.000-.000 (192%)	0.17	0.188	White crappie

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1682	1366-1999	(19%)	.074	.059-.089 (20%)	32.17	0.554	All species
254	136-371	(46%)	.009	.004-.014 (53%)	4.85	0.497	Black crappie
506	389-623	(23%)	.021	.015-.027 (28%)	9.67	0.380	Bluegill
251	138-365	(45%)	.010	.005-.016 (53%)	4.81	0.834	Channel catfish
			****	NOT RECORDED	****		Crappie spp.
2	0-11	(430%)	.000	.000-.000 (430%)	0.04	0.388	Green sunfish
519	330-708	(36%)	.025	.015-.034 (38%)	9.93	0.801	Largemouth bass
142	64-220	(55%)	.009	.000-.017 (99%)	2.72	0.647	Redear sunfish
			****	NOT RECORDED	****		Smallmouth bass
8	0-22	(177%)	.000	.000-.000 (192%)	0.16	0.413	White crappie

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
30847	27215-34479	(12%)	1.441	1.241-1.641 (14%)	1457.43	589.81	All species
668	392-943	(41%)	.023	.012-.034 (47%)	31.55	12.77	Black crappie
20648	17562-23735	(15%)	.996	.819-1.173 (18%)	975.57	394.81	Bluegill
708	508-907	(28%)	.032	.022-.041 (31%)	33.43	13.53	Channel catfish
3	0-9	(236%)	.003	.000-.010 (236%)	0.12	0.05	Crappie spp.
81	33-130	(60%)	.003	.001-.005 (68%)	3.85	1.56	Green sunfish
8226	6920-9533	(16%)	.358	.282-.434 (21%)	388.66	157.29	Largemouth bass
453	286-619	(37%)	.025	.010-.040 (59%)	21.39	8.66	Redear sunfish
2	0-9	(257%)	.000	.000-.001 (245%)	0.11	0.05	Smallmouth bass
58	3-113	(95%)	.001	.000-.002 (87%)	2.74	1.11	White crappie

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
4156	3656-4655	(12%)	.188	.163-.213 (13%)	196.34	0.135	All species
131	75-188	(43%)	.005	.002-.007 (49%)	6.20	0.196	Black crappie
1726	1464-1989	(15%)	.082	.068-.096 (17%)	81.56	0.084	Bluegill
201	137-265	(32%)	.009	.006-.012 (37%)	9.48	0.284	Channel catfish
0	0-1	(245%)	.000	.000-.001 (236%)	0.01	0.084	Crappie spp.
5	2-8	(67%)	.000	.000-.000 (70%)	0.23	0.060	Green sunfish
1977	1625-2329	(18%)	.086	.065-.107 (25%)	93.40	0.240	Largemouth bass
105	64-146	(39%)	.006	.002-.010 (69%)	4.96	0.232	Redear sunfish
0	0-0	(245%)	.000	.000-.000 (257%)	0.01	0.051	Smallmouth bass
10	2-19	(81%)	.000	.000-.000 (81%)	0.49	0.180	White crappie

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
9162	8060-10263	(12%)	.415	.360-.470 (13%)	175.17	0.297	All species
289	165-414	(43%)	.010	.005-.015 (49%)	5.53	0.433	Black crappie
3806	3227-4385	(15%)	.181	.150-.212 (17%)	72.77	0.184	Bluegill
442	301-584	(32%)	.019	.012-.027 (37%)	8.46	0.625	Channel catfish
0	0-2	(245%)	.001	.000-.002 (236%)	0.01	0.186	Crappie spp.
11	4-18	(67%)	.000	.000-.001 (70%)	0.21	0.132	Green sunfish
4358	3582-5134	(18%)	.190	.144-.237 (25%)	83.33	0.530	Largemouth bass
232	141-322	(39%)	.013	.004-.022 (69%)	4.43	0.512	Redear sunfish
0	0-1	(245%)	.000	.000-.000 (257%)	0.01	0.113	Smallmouth bass
23	4-42	(81%)	.000	.000-.001 (81%)	0.44	0.396	White crappie

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.0	2.8-3.3 (9%)	0.5	6.5	92
SHORE	1.5	1.1-1.9 (28%)	0.2	3.5	28
BOAT & SHORE	2.7	2.4-2.9 (10%)	0.2	6.5	120
MILES TRAVELED	38.2	35.6-40.9 (7%)	1	1100	1257
SUCCESS RATING (1-10)	3.6	3.5-3.8 (4%)	1	10	1257

*37 samples were from split interviews of completed trips.

8.6% of all 1400 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 12 out of 1400 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	346	425	80	17						
SHORE INTERVIEWS	205	217	58	36	8	4	2	1		1

Table 10. Number of interviews (and %) per species sought for all interviews.

275 (19.6%)	ANY	All species
582 (41.6%)	BLG	Bluegill
386 (27.6%)	BSS	Black bass spp.
20 (1.4%)	CAT	Unidentified catfish
51 (3.6%)	CCF	Channel catfish
81 (5.8%)	CRP	Crappie spp.
4 (0.3%)	LMB	Largemouth bass
1 (0.1%)	RSF	Redear sunfish

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	183	2	-	4	-	-	2	-	-	-	-	-	-	-	-	-
RELEASE	189	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	182	1	4	2	1	-	-	-	-	-	1	-	-	-	-	-
RELEASE	92	21	17	24	6	3	5	-	4	1	3	1	2	-	-	12
Channel catfish																
HARVEST	186	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	180	6	2	3	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	189	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	181	5	2	-	1	-	2	-	-	-	-	-	-	-	-	-
RELEASE	95	32	25	7	7	2	9	1	3	1	-	-	-	3	1	5
Redear sunfish																
HARVEST	185	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	183	5	2	1	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	191	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	189	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2003 CREEL SURVEY RESULTS

2003 WOODS LAKE
 27 ACRES
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2003 through 10/31/2003
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 277/693 = 40.0%

NUMBER OF INTERVIEWS: 270

Table 1. Total fishing effort, by fishing mode and day type.

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI	HOURS/ACRE	95% CI	% EFF
BOAT	WEEKDAY	461	229-692 (50%)	17	8-26 (50%)	24%
	HOLIDAY	520	384-657 (26%)	19	14-24 (26%)	51%
	TOTAL	981	712-1250 (27%)	36	26-46 (27%)	38%
SHORE	WEEKDAY	1524	1149-1899 (25%)	56	43-70 (25%)	17%
	HOLIDAY	1328	1015-1642 (24%)	49	38-61 (24%)	42%
	TOTAL	2853	2364-3342 (17%)	106	88-124 (17%)	28%
BOAT & SHORE	WEEKDAY	1985	1545-2425 (22%)	74	57-90 (22%)	18%
	HOLIDAY	1849	1506-2191 (19%)	68	56-81 (19%)	44%
	TOTAL	3834	3276-4391 (15%)	142	121-163 (15%)	31%

Table 2. Total fishing harvest and harvest rates, in numbers of fish.

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
522	254-789	(51%)	.046	.020-.073 (57%)	47.74	19.32	All species
			****	NOT RECORDED			Black crappie
120	0-308	(156%)	.013	.000-.033 (153%)	11.01	4.46	Bluegill
			****	NOT RECORDED			Carp
357	153-561	(57%)	.030	.010-.051 (66%)	32.65	13.22	Channel catfish
			****	NOT RECORDED			Crappie spp.
18	3-33	(83%)	.001	.000-.002 (117%)	1.64	0.66	Largemouth bass
20	0-41	(109%)	.001	.000-.003 (155%)	1.81	0.73	White crappie
7	0-21	(209%)	.000	.000-.001 (209%)	0.63	0.26	Yellow bullhead

Table 3. Total fishing harvest and harvest rates, in kilograms.

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
137	72-201	(47%)	.011	.005-.017 (57%)	12.51	0.262	All species
			****	NOT RECORDED			Black crappie
4	0-10	(130%)	.001	.000-.001 (133%)	0.39	0.036	Bluegill
			****	NOT RECORDED			Carp
103	40-166	(61%)	.008	.002-.014 (71%)	9.42	0.288	Channel catfish
			****	NOT RECORDED			Crappie spp.
21	4-38	(79%)	.001	.000-.002 (98%)	1.94	1.184	Largemouth bass
6	0-13	(112%)	.000	.000-.001 (155%)	0.54	0.300	White crappie
2	0-7	(209%)	.000	.000-.000 (209%)	0.22	0.342	Yellow bullhead

Table 4. Total fishing harvest and harvest rates, in pounds.

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
301	159-444	(47%)	.023	.010-.037 (57%)	11.16	0.577	All species
			****	NOT RECORDED			Black crappie
9	0-22	(130%)	.001	.000-.003 (133%)	0.35	0.078	Bluegill
			****	NOT RECORDED			Carp
227	88-366	(61%)	.018	.005-.032 (71%)	8.40	0.636	Channel catfish
			****	NOT RECORDED			Crappie spp.
47	10-83	(79%)	.003	.000-.005 (98%)	1.73	2.611	Largemouth bass
13	0-28	(112%)	.001	.000-.002 (155%)	0.48	0.661	White crappie
5	0-16	(209%)	.000	.000-.001 (209%)	0.19	0.754	Yellow bullhead

Table 5. Total fishing catch and catch rates, in numbers of fish.
Catch includes both harvested and released fish.

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
4083	3143-5023	(23%)	.351	.263-.438 (25%)	373.66	151.22	All species
4	0-16	(278%)	.000	.000-.001 (257%)	0.40	0.16	Black crappie
1790	1239-2340	(31%)	.142	.090-.193 (36%)	163.80	66.29	Bluegill
37	2-72	(95%)	.005	.000-.012 (138%)	3.36	1.36	Carp
869	575-1163	(34%)	.086	.049-.122 (43%)	79.51	32.18	Channel catfish
235	0-594	(153%)	.026	.000-.067 (156%)	21.50	8.70	Crappie spp.
602	285-919	(53%)	.048	.029-.067 (40%)	55.11	22.30	Largemouth bass
528	220-835	(58%)	.043	.002-.084 (95%)	48.28	19.54	White crappie
18	0-42	(129%)	.001	.000-.002 (126%)	1.69	0.68	Yellow bullhead

Table 6. Total fishing catch and catch rates, in kilograms.

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
767	167-1367	(78%)	.058	.026-.090 (56%)	70.23	0.188	All species
0	0-2	(257%)	.000	.000-.000 (257%)	0.04	0.102	Black crappie
58	40-76	(31%)	.004	.003-.006 (34%)	5.30	0.032	Bluegill
43	0-98	(128%)	.005	.000-.015 (185%)	3.93	1.169	Carp
187	111-263	(40%)	.017	.008-.025 (49%)	17.12	0.215	Channel catfish
9	0-22	(139%)	.001	.000-.003 (190%)	0.84	0.039	Crappie spp.
435	0-1028	(136%)	.028	.000-.059 (109%)	39.81	0.722	Largemouth bass
30	18-43	(41%)	.002	.001-.003 (45%)	2.76	0.057	White crappie
5	0-10	(120%)	.000	.000-.001 (135%)	0.43	0.255	Yellow bullhead

Table 7. Total fishing catch and catch rates, in pounds.

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1692	369-3014	(78%)	.128	.057-.199 (56%)	62.66	0.414	All species
1	0-3	(257%)	.000	.000-.000 (278%)	0.04	0.224	Black crappie
128	88-167	(31%)	.010	.006-.013 (34%)	4.73	0.071	Bluegill
95	0-216	(128%)	.012	.000-.034 (185%)	3.51	2.578	Carp
412	246-579	(40%)	.036	.019-.054 (49%)	15.27	0.475	Channel catfish
20	0-48	(139%)	.003	.000-.008 (190%)	0.75	0.086	Crappie spp.
959	0-2267	(136%)	.062	.000-.131 (109%)	35.52	1.592	Largemouth bass
66	39-94	(41%)	.005	.003-.007 (45%)	2.46	0.126	White crappie
10	0-23	(120%)	.001	.000-.001 (135%)	0.39	0.563	Yellow bullhead

Table 8. Hours per completed trip and supplementary questions for all trips.

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.1	2.7-3.5	(13%)	0.6	9.2	60
SHORE	2.1	1.8-2.4	(13%)	0.2	12.1	132
BOAT & SHORE	2.4	2.2-2.7	(10%)	0.2	12.1	192
MILES TRAVELED	17.2	14.4-19.9	(16%)	1	200	245
SUCCESS RATING (1-10)	4.0	3.7-4.3	(8%)	1	10	239

*16 samples were from split interviews of completed trips.
75.9% of all 253 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 253 interviews with illegal harvests.

Table 9. Frequency distribution of angler party size for all interviews.

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	10	50	2	1						
SHORE INTERVIEWS	45	96	27	13	4	4	1			

Table 10. Number of interviews (and %) per species sought for all interviews.

122 (48.2%)	ANY	All species
5 (2.0%)	BLG	Bluegill
1 (0.4%)	CAP	Carp
4 (1.6%)	CAT	Unidentified catfish
62 (24.5%)	CCF	Channel catfish
5 (2.0%)	CRP	Crappie spp.
41 (16.2%)	LMB	Largemouth bass
13 (5.1%)	WHC	White crappie

Table 11. Number of anglers with a given harvest & release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bluegill																
HARVEST	386	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	250	58	33	14	4	12	10	3	-	2	3	-	-	-	-	5
Carp																
HARVEST	394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	388	4	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	363	4	13	2	2	3	5	-	1	1	-	-	-	-	-	-
RELEASE	306	53	21	10	3	-	-	1	-	-	-	-	-	-	-	-
Crappie spp.																
HARVEST	394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	389	-	-	-	-	2	-	-	-	-	1	-	-	-	-	2
Largemouth bass																
HARVEST	390	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	308	58	13	5	4	3	-	1	2	-	-	-	-	-	-	-
White crappie																
HARVEST	390	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	340	36	-	6	5	1	1	2	-	-	2	-	1	-	-	-
Yellow bullhead																
HARVEST	392	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	389	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B1. Angler Effort and Angler Effort per Acre for all 2003 Lakes.

<u>Lake/Section</u>	<u>Angler Hours</u>	<u>Angler Hours/Acre</u>
Shelbyville Main Lake	175360	17
Pierce	77814	530
Bloomington	43974	69
Mingo	37173	216
Shelbyville Tailwater	25147	4491
Sterling	19079	279
Homer	18406	227
Walnut Point	17758	340
Dolan	12546	175
Red Hills	10722	268
Hillsboro	9380	94
Glendale	8754	109
McLeansboro	6539	87
Woods	3834	142

Table B2. Estimated harvest for all species for all 2003 Lakes.

<u>Lake/Section</u>	<u># Fish Harvested</u>	<u>Pounds Harvested</u>
Shelbyville Main Lake	76555	57716
Pierce	48387	29403
Bloomington	25264	11976
Mingo	23967	7773
Homer	11403	3718
McLeansboro	8055	2705
Hillsboro	4729	2304
Glendale	3984	2590
Dolan	3682	2977
Red Hills	3607	1569
Walnut Point	3037	1682
Sterling	2378	1094
Shelbyville Tailwater	2096	6096
Woods	522	301

Table B3. Statewide ranking of most frequently caught species. Rank score is based on the number times a species ranked in the top five most caught species for a particular lake in 2003. A total of 14 lakes were surveyed in 2003.

<u>Species</u>	<u>Rank Score</u>
Bluegill	14
Largemouth Bass	13
White Crappie	9
Black Crappie	7
Channel Catfish	7
Yellow Bass	2
Walleye	2
White Bass	2
Redear Sunfish	1
Freshwater Drum	1
Muskellunge	1
Yellow Bullhead	1
Bighead Buffalo	1
Warmouth	1

Table B4. Catch Rates (#fish per angler-hour) for the five most frequently caught species for all 2003 Lakes.

<u>Lake/Section</u>	<u>Largemouth Bass</u>	<u>Bluegill</u>	<u>Channel Catfish</u>	<u>White Crappie</u>	<u>Black Crappie</u>
Walnut Point	0.358	0.996	0.023	0.001	###
Bloomington	0.354	0.240	0.159	0.423	0.014
Mingo	0.296	0.457	0.044	0.462	0.127
Homer	0.292	0.522	0.111	0.630	***
Glendale	0.274	0.313	0.123	###	***
Hillsboro	0.144	0.261	0.223	0.351	0.021
Red Hills	0.143	0.479	0.015	0.053	0.157
Shelbyville Main Lake	0.120	0.145	***	0.053	0.071
McLeansboro	0.092	0.305	0.189	0.425	0.074
Dolan	0.047	0.123	0.420	0.205	***
Woods	0.043	0.142	0.086	0.043	***
Sterling	0.037	0.154	0.005	###	0.219
Shelbyville Tailwater	0.008	0.032	0.005	0.008	***

(*** = Too few samples collected for accurate estimation)

(### = Species did not appear in the creel)

