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ILLINOIS NATURAL HISTORY SURVEY

CENTER FOR AQUATIC ECOLOGY

ANNUAL REPORT

1 March 2002 - 28 February 2003

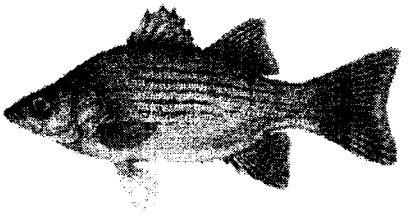
DATABASE MANAGEMENT AND ANALYSIS OF FISHERIES IN ILLINOIS

Jeffrey A. Stein, Robert F. Illyes, Lynnette Miller-Ishmael,
Betty Carroll, 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 16

May 2003

Aquatic Ecology Technical Report 03/03



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F-69-R-16

Annual Report, Segment 16

March 1, 2002 to February 28, 2003

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

Illinois Natural History Survey
Center for Aquatic Ecology
607 E. Peabody Drive
Champaign, Illinois 61820

May 2003

Dr. David P. Philipp
Principal Investigator
Center for Aquatic Ecology
Illinois Natural History Survey

Dr. John M. Epifanio
Director
Center for Aquatic Ecology
Illinois Natural History Survey

This technical report is the annual report for Segment 16 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.

ACKNOWLEDGEMENTS

The authors would like to thank Steve Sobaski, David Day, and Doug Austen of the IDNR Technical Support Section for their continued support of FAS and Project F-69-R. The authors also wish to acknowledge Derek Aday, John Hoxmeier, and Dave Wahl of the Illinois Natural History Survey for their collaboration with Projects F-128-R and F-135-R. Finally, a special thank you to Tommie McNamara, Teresa Hall and April Mathews, and the many creel clerks for their continued dedication and hard work.

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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 16: (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 8 lakes and 2 streams in Illinois during Segment 16, bringing the total to 276 total creel surveys on Illinois lakes since 1987. All of these lake and stream creels were funded by Project F-69-R with additional financial support from IDNR Division of Fisheries. Additionally, project funds were used to purchase a 70-hp outboard motor for use during creel surveys on large reservoirs (e.g., Lake Shelbyville). In compliance with the Illinois Department of Natural Resources Green Initiative, graphical analyses (e.g., length frequency histograms) typically presented in past reports are not presented here. Such analyses are available upon request from the authors.

Windows-based software for FAS Streams, including the new IEPA IBI module metrics, has been distributed to field staff and training has been provided. Field data entry software for FAS-Creel continues to be developed and tested. FAS software and website support continues. An FAS Advisory Committee has been formed and actively provides guidance to FAS Program personnel. An FAS Database Manager has been added to project staff, allowing for an exhaustive "clean-up" of FAS long term datasets.

Creel survey estimates were used to evaluate quality and stunted bluegill populations in Illinois lakes based on a unique size index (PCF.180) developed for use in Project F-128-R. Analysis of creel survey data collected during segments 16 showed that quality bluegill lakes produced a significantly better fishery than stunted lakes in terms of total number caught, total biomass caught, average size caught, and size distribution of caught fish (using PCF.180).

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 16 for Project F-69-R (2002). Creel data collected

during Segments 16 (Table 1) are significant additions to existing creel data for Illinois Lakes and provide important information to researchers working on related fisheries projects. In future segments, the cumulative creel data set will be examined and long-term trends will be analyzed to provide fisheries managers with additional perspective for making management decisions. Additionally, creel data will be coupled with other statewide fisheries databases 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 16: Argyle, Shabbona, Pistakee, Petite, Dawson, Devil's Kitchen, Mermet, and East Fork (Appendix B). Creel surveys were also conducted on the Fox River at Silver Springs and the Yorkville Dam as well as on the Kaskaskia River from Athens to Evansville (Appendix B).

Lakes were chosen to be surveyed based upon (1) needs identified by IDNR-Fisheries biologists, (2) the recognized value of long-term data on select lakes, and (3) 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.*

FINDINGS

Results for effort, harvest and catch are summarized here and in Appendix B. In compliance with the Illinois Department of Natural Resources Green Initiative, graphical analyses (e.g., length frequency histograms) typically presented in past reports are not presented here. Such analyses are available upon request from the authors.

Angler Effort. Total estimated fishing pressure was highest in Lake Shabbona at 162,601 angler-hours, East Fork Lake at 64,383 angler-hours, and Pistakee Lake at 33,937 angler-hours. The lowest fishing effort among the creeled lakes was estimated in Petite Lake at 7,760 angler-hours.

For the streams, total estimated fishing pressure was highest on the Kaskaskia River at 41,244 angler-hours, followed by Yorkville Dam on the Fox River at 25,958 and Silver Spring on the Fox River at 11,541 angler-hours.

Lake Shabbona had the highest fishing pressure per area at 534 angler-hours/acre. Although Argyle lake had the second highest fishing pressure per area at 154 angler-hours/acre, it had one of the lowest values for total angler effort at 14,236 angler-hours. East Fork Lake had the second lowest fishing pressure per area at 69 angler-hours/acre but had the second highest fishing pressure overall at 64,383 angler-hours.

Pistakee Lake had the lowest fishing pressure per area at 20 angler-hours/acre.

Yorkville Dam on the Fox River had the highest fishing pressure per area at 2635 angler-hours/acre, followed by Silver Springs on the Fox River at 769 angler-hours/acre. The Kaskaskia River had the lowest fishing pressure per area at 45 angler-hours/acre. Angler effort estimates for lakes and streams are summarized in Table B1 in Appendix B.

Harvest. The lowest estimated harvest levels among the lakes were seen in Petite Lake (1,253 fish; 1,161 pounds) and Washington County Lake (4,216 fish; 1,833 pounds). The highest harvest levels were out of East Fork Lake (111,909 fish; 30,576 pounds). While Mermet Lake ranked fifth in number of fish harvested (15,603 fish), it ranked second in pounds of fish harvested (18,816 pounds) for an average harvested fish of 1.21 pounds.

Estimated harvest levels for the streams reveal that the Kaskaskia River had the highest harvest rates (12,848 fish; 16,432 pounds) when compared to the Fox River at both the Silver Spring (1138 fish; 1163 pounds) and Yorkville Dam (8373 fish; 4787 pounds) sites. Results for estimated harvest levels for lakes and streams are summarized in Table B2 in Appendix B.

Catch. Estimated catch rates (# caught per angler-hour) for largemouth bass, bluegill, and channel catfish were highly

variable across lakes (Table B3, Appendix B). Catch rates for largemouth bass were lowest in Petite Lake (0.044), Pistakee Lake (0.052), and Dawson (0.094). The highest catch rates were seen in East Fork Lake (0.360) and Devil's Kitchen Lake (0.312). Bluegill catch rates were the highest in East Fork Lake, with 1.033 bluegill caught per angler-hour. Lowest catch rates for bluegill were found in Pistakee Lake (0.151) and Dawson Lake (0.188). East Fork Lake and Devil's Kitchen 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 East Fork Lake (0.011) and Lake Shabbona (0.023), and highest in Mermet Lake (0.196).

On the Fox River, estimated catch rates (catch per angler-hour) of smallmouth bass were considerably higher at Yorkville Dam (.232 fish per angler-hour) compared to the site at Silver Spring (.022 fish per angler-hour). Smallmouth bass did not appear in the Kaskaskia River creel (Table B4, Appendix B). For channel catfish, the Yorkville Dam (Fox River) had the highest catch rate (0.250 fish per angler-hour), while the Kaskaskia River had a catch rate of .128 fish per angler-hour. Creel surveys produced inaccurate estimates of channel catfish catch rates at the Silver Spring site on the Fox River, due to low sample size.

Long Term Trends. Several of the lakes surveyed during 2002 have been surveyed in earlier years, providing an opportunity to detect long-term changes in creel survey data. Catch per unit effort (CPUE, measured as catch per angler hour) and average size (lbs) for several popular game fish (largemouth bass, bluegill, channel catfish) were analyzed and the results are presented in Figures B1-B6, Appendix B.

Largemouth bass CPUE (Figure B1)showed the greatest increases on Devil's Kitchen Lake (1992 to 2002) and East Fork Lake (1996 to 2002), while the average weight (Figure B2) of a largemouth bass on these lakes remained relatively constant. Mermet, Argyle, and Shabbona also showed increases in largemouth bass CPUE, although those increases were smaller than the increases on Devil's Kitchen and East Fork, and didn't begin until 1995 or later. These lakes showed little or no significant change in average weight from 1990 to 2002. Dawson showed no change in largemouth bass CPUE from 1994 to 2002 but showed significant improvement in average weight of largemouth bass catch, increasing from 0.6 lbs in 1994 to 1.4 lbs in 2002.

Channel catfish CPUE (Figure B3) showed an increase on Mermet Lake between 1997 and 2002, while the average weight (Figure B4) also increased from 2.1 lbs in 1997 to 3.0 lbs in 2002. Dawson and Shabbona showed no significant increases in CPUE but showed increases in average weight, increasing by

approximately one pound (per fish, on average) between 1994 and 2002. East Fork Lake also showed no change in channel catfish CPUE, but showed a dramatic decrease in average weight, dropping from 2.7 lbs in 1996 to 1.5 lbs in 2002. Channel catfish at Argyle Lake and the Yorkville Dam on the Fox River showed no significant changes in CPUE or average weight.

Bluegill CPUE (Figure B5) showed significant increases on East Fork and Mermet beginning around 1995, with modest increases in average weight (Figure B6). Devil's Kitchen and Shabbona also showed increases in bluegill CPUE but had slight reductions in average weight of each bluegill angled. Argyle Lake, while showing increases in bluegill CPUE, had a significant reduction in average weight of bluegill caught, indicating that anglers were catching more bluegill in 2002 than in previous years, but those fish were significantly smaller in size. Dawson Lake showed only slight decreases in both bluegill CPUE and average weight.

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. Reporting of lake-specific long-term trends of fishing effort, catch, and catch rates should continue and annual results should 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 16.

Segment 16 (2002)

Lake/Stream	County
Argyle	McDonough
Dawson	McLean
Devil's Kitchen	Willliamson
East Fork	Richland
Pistakee	Lake
Petite	Lake
Fox River	Kendall
Kaskaskia River	Monroe, St. Claire, Randolph
Mermet	Massac
Shabbona	DeKalb

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 if 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

Support for all three FAS databases continues, and has been enhanced by the addition of an FAS Database Manager. The Database Manager now serves as a point of contact for field biologists on FAS database issues, including submission of yearly data files for FAS Lakes. The Database Manager has also made significant progress on a clean-up of the FAS Lakes data from previous years, making corrections to the state WATERS table, collecting missing datasets from the field, and checking key data fields for erroneous and/or suspicious data values.

Corrections to the database have been made in coordination with field staff and the IDNR Technical Support Section and have been documented in metadata files. We continue our efforts to provide readily usable summary data for all three FAS databases (Creel, Lakes and Streams), and to provide tools for high-quality graphical visualization of FAS data.

Windows-based software for FAS Streams, including the new IEPA IBI module metrics, has been distributed to field staff and training has been provided. The analysis package is functional and tested, ready for widespread use, although several revisions over the next year are anticipated as changes suggested by users are incorporated. Also, scoring parameters for the new IBI became available in March of 2003 and are currently being integrated into the new software. The data entry module is fully functional and may be used by field staff; however, the data entry module is currently under final test by select field staff and widespread use of the module should await the results of this testing. Field data entry software for FAS-Creel continues to be developed and tested.

The FAS Advisory Committee has been formed and now actively provides guidance to the FAS program personnel. The Committee has met twice this segment and have been instrumental in providing thoughtful input on the process of database

management, overall project operations, and the future vision of the FAS program.

RECOMMENDATIONS

Data entry for historical streams data will be coordinated through the IDNR Technical Support Section, and commence once data sheets are provided to INHS. Lakes cleanup of the FAS-Lakes database should continue and be completed; cleanup of the FAS-Streams database should begin thereafter. INHS should continue to provide database management services for the entire FAS database system through the database manager, and serve as a central collection point for databases from field staff. Further work should be done to provide long-term summary data and graphical visualization of all FAS Data.

Software testing of the data entry module for FAS-Streams for Windows will be completed early in Segment 17 and the entire software package released for general use. The Windows version of FAS-Lakes software will then be developed, tested, and distributed. Testing of the field data entry software for FAS-Creel should be completed during the 2003 creel season and strategies developed for implementation of computerized field data entry for the FAS program. INHS will continue to provide technical support for all FAS related software.

The FAS Advisory Committee should continue to meet at least twice per segment and provide guidance on overall operations of the FAS Program. A review of methodologies currently in use for creel surveys should be provided to program staff so that state of the art methods can be integrated into current efforts without losing significant compatibility with the existing long-term dataset. The Advisory Committee should also provide a long-term vision for the FAS Program and use that vision as a guide for day-to-day operations of the FAS Program.

The FAS website needs to be redesigned to reflect the current efforts of the program and provide a more useful interface for field staff, fisheries managers, researchers, and the general public. INHS staff will work in coordination with IDNR Fisheries to provide a more up-to-date presence on the world wide web.

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. Creel survey estimates were used to evaluate quality and stunted bluegill populations in Illinois lakes based on size indices of adult fish (Claussen et al 1998, Aday et al. 1999 and 2000). Other creel survey data, such as angler effort and harvest data, the percentage of anglers targeting bluegill, and the average size of caught and harvested bluegill were additionally used to assess the characteristics of the study lakes in Project F-128-R. Because of the nature of creel data, a unique size index, Proportion of Quality Creeled Fish (PCF.180) was developed for use in Project F-128-R. This index is calculated as the total number of caught fish greater than or equal to 180mm divided by the total number of caught

fish (Aday et al. 1999 and 2000). Progress on a cleanup of the FAS Lakes database during this segments has now opened the door for its use in population analyses to support research efforts on Project F-135-R.

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. Progress on a cleanup of the FAS Lakes database during this segment 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 only one project lake (Mermet Lake) during segment 16, so no analyses

were conducted and creel data will be used in conjunction with data collected in segments 17-18 to produce post-treatments analyses for F-128-R project lakes.

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. Tests of current creel methods should be initiated to assess advances in current scientific literature, especially new insights into catch rate estimation (Pollock et al. 1997). If improvements to the current creel estimation methods are deemed necessary, the historical creel survey data should also be estimated using the new methods to allow future and historical fishery estimates to be comparable (Lockwood et al. 1999).

Most importantly, however, intensive effort is needed to bring the other two FAS databases (FAS Lakes and FAS Streams) on line as usable resources. 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.

REFERENCES

Aday, D.D., J.E. Claussen, J.H. Hoxmeier, T.W. Edison, D.H. Wahl, and D.P. Philipp. 2000. Quality management of bluegill: factors affecting population size structure. Illinois Natural History Survey, Aquatic Ecology Technical Report 00/10.

Aday, D.D., J.E. Claussen, J.H. Hoxmeier, D.M. Benjamin, T.W. Edison, D.H. Wahl, and D.P. Philipp. 1999. Quality management of bluegill: factors affecting population size structure. Illinois Natural History Survey, Aquatic Ecology Technical Report 99/13.

Claussen, J.E., D.D. Aday, J.E. Hoxmeier, D.H. Wahl, and D.P. Philipp. 1998. Quality management of bluegill: factors affecting population size structure. Illinois Natural History Survey, Aquatic Ecology Technical Report 99/1.

Lockwood, R.N., D.M. Benjamin, and J.R. Bence. 1999. Estimating angling effort and catch from Michigan roving and access site angler survey data. Michigan Department of Natural Resources, Fisheries Research Report No 2044. 35 pages.

Pollock, K.H., J.M. Hoenig, C.M. Jones, D.S. Robson, and C.J. Greene. 1997. Catch rate estimation for roving and access point surveys. North American Journal of Fisheries Management 17:11-19.

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 x 93 or 279 day periods. The Sampling Ratio = (128/279) x 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: (Upper value of the 95% CI - Estimated Total) / 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 angler-hours from interviews) / (360 angler-hours from instantaneous counts) x 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:

((Upper 95% CI - # HARVESTED) / # HARVESTED) x 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:

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

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: SUPPLEMETAL 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. 2002 CREEL SURVEY RESULTS

The following pages contain the final results from the full 2002 day creel surveys conducted on Illinois lakes and streams, including 8 lakes and 2 streams funded by Project F-69-R-16. Results are presented in the order listed in the table below, by lake/stream name. Following the individual lake/stream results presented in Appendix B are four tables providing comparisons between lakes/streams (Tables B1-4), and six figures providing long-term comparisons (Figures B1-6).

LAKE	*ACRES*	*COUNTY*	*REGION*	*DISTRICT*	*BIOLOGIST*
Argyle	93	McDonough	1	3	Ken Russell
Dawson	148	McLean	3	10	Mike Garthaus
Devil's Kitchen	704	Williamson	5	21	Chris Bickers
East Fork	935	Richland	5	19	Mike Hooe
Pistakee	1675	Lake	2	7	Frank Jakubicek
Petite	201	Lake	2	7	Frank Jakubicek
Mermet	439	Massac	5	22	Chris Bickers
Shabbona	304	Dekalb	1	1	Alec Pulley
RIVER	*ACRES*	*COUNTY*	*REGION*	*DISTRICT*	*BIOLOGIST*
Fox River					
Silver Spring	15.0	Kendall	2	9	Steve Pescitelli
Yorkville Dam	10.0	Kendall	2	9	Steve Pescitelli
Kaskaskia River	924	Monroe, St. Claire & Randolph	4	17	Randy Sauer

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 ARGYLE LAKE
93 ACRES
REGION 1, DISTRICT 3

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 09/30/2002
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: 249/600 = 41.5%

NUMBER OF INTERVIEWS: 696

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	4630	3756-5505	(19%)	50	41-59	(19%)	15%
	HOLIDAY	4470	3893-5048	(13%)	48	42-54	(13%)	23%
	TOTAL	9101	8053-10149	(12%)	98	87-109	(12%)	19%
SHORE	WEEKDAY	2724	2183-3264	(20%)	29	24-35	(20%)	12%
	HOLIDAY	2412	2007-2817	(17%)	26	22-30	(17%)	27%
	TOTAL	5135	4460-5811	(13%)	55	48-63	(13%)	19%
BOAT & SHORE	WEEKDAY	7354	6326-8382	(14%)	79	68-90	(14%)	14%
	HOLIDAY	6882	6177-7588	(10%)	74	67-82	(10%)	24%
	TOTAL	14236	12989-15483	(9%)	154	140-167	(9%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
5188	3481-6895	(33%)	.258	.197-.319	(24%)	138.30	55.97	All species
2	0-6	(278%)	.000	.000-.001	(257%)	0.04	0.02	Bluegill x Green su
12	0-45	(278%)	.010	.000-.038	(278%)	0.32	0.13	Black bullhead
1428	31-2824	(98%)	.043	.005-.081	(89%)	38.05	15.40	Black crappie
1051	689-1413	(34%)	.053	.030-.076	(44%)	28.01	11.34	Bluegill
15	0-37	(154%)	.000	.000-.001	(146%)	0.39	0.16	Bluegill x Redear s
945	681-1210	(28%)	.062	.042-.083	(33%)	25.20	10.20	Channel catfish
			****	NOT RECORDED	****			Freshwater drum
			****	NOT RECORDED	****			Grass carp
38	0-81	(114%)	.002	.000-.003	(101%)	1.01	0.41	Green sunfish
242	117-367	(52%)	.009	.004-.014	(52%)	6.46	2.61	Largemouth bass
			****	NOT RECORDED	****			Muskellunge
254	64-445	(75%)	.025	.004-.046	(85%)	6.77	2.74	Rainbow trout
26	0-55	(114%)	.002	.000-.005	(228%)	0.68	0.28	Redear sunfish
			****	NOT RECORDED	****			Smallmouth bass
987	452-1523	(54%)	.046	.012-.080	(74%)	26.32	10.65	White crappie
166	62-270	(63%)	.005	.002-.008	(57%)	4.42	1.79	Walleye x Sauger hy
23	1-46	(96%)	.001	.000-.003	(143%)	0.62	0.25	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
1583	1148-2019	(28%)	.082	.059-.105	(28%)	42.21	0.305	All species
0	0-1	(257%)	.000	.000-.000	(257%)	0.01	0.160	Bluegill x Green su
8	0-30	(278%)	.007	.000-.025	(278%)	0.21	0.654	Black bullhead
317	0-661	(108%)	.010	.000-.019	(101%)	8.45	0.222	Black crappie
82	51-114	(38%)	.004	.002-.006	(48%)	2.19	0.078	Bluegill
2	0-6	(149%)	.000	.000-.000	(147%)	0.06	0.164	Bluegill x Redear s
491	346-636	(30%)	.030	.021-.039	(30%)	13.09	0.520	Channel catfish
			****	NOT RECORDED	****			Freshwater drum
			****	NOT RECORDED	****			Grass carp
4	0-8	(111%)	.000	.000-.000	(134%)	0.10	0.100	Green sunfish
245	98-393	(60%)	.009	.004-.014	(56%)	6.54	1.013	Largemouth bass
			****	NOT RECORDED	****			Muskellunge
85	21-150	(75%)	.009	.001-.018	(94%)	2.28	0.336	Rainbow trout
2	0-5	(110%)	.000	.000-.000	(198%)	0.06	0.088	Redear sunfish
			****	NOT RECORDED	****			Smallmouth bass
180	80-279	(55%)	.008	.002-.015	(76%)	4.79	0.182	White crappie
155	27-283	(83%)	.004	.001-.008	(71%)	4.13	0.934	Walleye x Sauger hy
11	0-22	(101%)	.001	.000-.001	(135%)	0.30	0.479	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
3491	2530-4451	(28%)	.181	.131-.231	(28%)	37.66	0.673	All species
1	0-2	(257%)	.000	.000-.000	(257%)	0.01	0.353	Bluegill x Green su
17	0-65	(278%)	.014	.000-.054	(278%)	0.19	1.441	Black bullhead
699	0-1456	(108%)	.021	.000-.042	(101%)	7.54	0.490	Black crappie
181	111-250	(38%)	.009	.005-.013	(48%)	1.95	0.172	Bluegill
5	0-13	(149%)	.000	.000-.000	(147%)	0.06	0.361	Bluegill x Redear s
1083	763-1403	(30%)	.066	.046-.086	(30%)	11.68	1.145	Channel catfish
			****	NOT RECORDED	****			Freshwater drum
			****	NOT RECORDED	****			Grass carp
8	0-18	(111%)	.000	.000-.001	(134%)	0.09	0.220	Green sunfish
541	216-866	(60%)	.020	.009-.031	(56%)	5.83	2.233	Largemouth bass
			****	NOT RECORDED	****			Muskellunge
188	47-330	(75%)	.020	.001-.039	(94%)	2.03	0.742	Rainbow trout
5	0-10	(110%)	.000	.000-.001	(198%)	0.05	0.194	Redear sunfish
			****	NOT RECORDED	****			Smallmouth bass
396	177-615	(55%)	.019	.004-.033	(76%)	4.27	0.401	White crappie
341	60-623	(83%)	.010	.003-.017	(71%)	3.68	2.058	Walleye x Sauger hy
25	0-50	(101%)	.001	.000-.003	(135%)	0.27	1.056	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
22416	17585-27247	(22%)	1.040	.852-1.228	(18%)	597.52	241.81	All species
6	0-17	(173%)	.001	.000-.001	(154%)	0.16	0.07	Bluegill x Green su
12	0-45	(278%)	.010	.000-.038	(278%)	0.32	0.13	Black bullhead
2441	851-4032	(65%)	.081	.032-.130	(60%)	65.07	26.33	Black crappie
9615	6190-13040	(36%)	.499	.347-.650	(30%)	256.29	103.72	Bluegill
15	0-37	(154%)	.000	.000-.001	(146%)	0.39	0.16	Bluegill x Redear s
1273	934-1613	(27%)	.081	.058-.103	(28%)	33.94	13.74	Channel catfish
3	0-9	(245%)	.000	.000-.000	(236%)	0.07	0.03	Freshwater drum
2	0-8	(226%)	.001	.000-.002	(231%)	0.06	0.02	Grass carp
505	0-1421	(182%)	.020	.000-.041	(105%)	13.46	5.45	Green sunfish
3517	2144-4891	(39%)	.140	.089-.191	(36%)	93.75	37.94	Largemouth bass
18	0-36	(106%)	.001	.000-.001	(101%)	0.47	0.19	Muskellunge
321	125-518	(61%)	.029	.008-.050	(73%)	8.57	3.47	Rainbow trout
130	0-496	(280%)	.005	.000-.020	(289%)	3.47	1.41	Redear sunfish
9	0-28	(199%)	.001	.000-.002	(328%)	0.25	0.10	Smallmouth bass
4220	2431-6009	(42%)	.164	.100-.228	(39%)	112.48	45.52	White crappie
300	117-484	(61%)	.008	.003-.013	(59%)	8.01	3.24	Walleye x Sauger hy
28	5-52	(82%)	.001	.000-.003	(131%)	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
3967	3167-4767	(20%)	.182	.150-.215	(18%)	105.74	0.177	All species
0	0-1	(189%)	.000	.000-.000	(226%)	0.01	0.061	Bluegill x Green su
8	0-30	(278%)	.007	.000-.025	(278%)	0.21	0.654	Black bullhead
389	37-740	(90%)	.012	.002-.022	(81%)	10.36	0.159	Black crappie
252	185-319	(27%)	.012	.009-.016	(27%)	6.71	0.026	Bluegill
2	0-6	(149%)	.000	.000-.000	(147%)	0.06	0.164	Bluegill x Redear s
568	401-735	(29%)	.034	.024-.044	(28%)	15.15	0.446	Channel catfish
1	0-3	(245%)	.000	.000-.000	(236%)	0.02	0.322	Freshwater drum
0	0-0	(231%)	.000	.000-.000	(231%)	0.00	0.057	Grass carp
32	0-92	(188%)	.001	.000-.002	(126%)	0.85	0.063	Green sunfish
1958	1361-2555	(31%)	.082	.058-.106	(29%)	52.19	0.557	Largemouth bass
28	0-67	(143%)	.001	.000-.002	(127%)	0.73	1.562	Muskellunge
113	47-179	(59%)	.010	.002-.019	(81%)	3.00	0.351	Rainbow trout
9	0-23	(167%)	.000	.000-.001	(259%)	0.23	0.066	Redear sunfish
1	0-3	(200%)	.000	.000-.000	(182%)	0.03	0.116	Smallmouth bass
415	248-581	(40%)	.017	.010-.024	(41%)	11.06	0.098	White crappie
180	48-311	(73%)	.005	.002-.008	(63%)	4.79	0.598	Walleye x Sauger hy
13	2-24	(87%)	.001	.000-.001	(127%)	0.34	0.445	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
8746	6982-10509	(20%)	.402	.331-.473	(18%)	94.34	0.390	All species
1	0-2	(189%)	.000	.000-.000	(226%)	0.01	0.134	Bluegill x Green su
17	0-65	(278%)	.014	.000-.054	(278%)	0.19	1.441	Black bullhead
857	81-1632	(90%)	.027	.005-.049	(81%)	9.24	0.351	Black crappie
555	407-702	(27%)	.027	.020-.034	(27%)	5.98	0.058	Bluegill
5	0-13	(149%)	.000	.000-.000	(147%)	0.06	0.361	Bluegill x Redear s
1253	884-1621	(29%)	.075	.054-.096	(28%)	13.51	0.984	Channel catfish
2	0-6	(236%)	.000	.000-.000	(236%)	0.02	0.710	Freshwater drum
0	0-1	(231%)	.000	.000-.000	(231%)	0.00	0.127	Grass carp
71	0-204	(188%)	.002	.000-.005	(126%)	0.76	0.140	Green sunfish
4316	2999-5634	(31%)	.181	.128-.233	(29%)	46.56	1.227	Largemouth bass
61	0-147	(143%)	.002	.000-.004	(127%)	0.66	3.443	Muskellunge
248	103-394	(59%)	.023	.004-.042	(81%)	2.68	0.773	Rainbow trout
19	0-51	(167%)	.001	.000-.002	(259%)	0.20	0.145	Redear sunfish
2	0-7	(200%)	.000	.000-.000	(182%)	0.03	0.256	Smallmouth bass
915	548-1282	(40%)	.037	.022-.052	(41%)	9.87	0.217	White crappie
396	106-685	(73%)	.011	.004-.019	(63%)	4.27	1.318	Walleye x Sauger hy
28	4-52	(87%)	.001	.000-.003	(127%)	0.30	0.981	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	3.8	3.4-4.3	(12%)	1.0	10.8	91
SHORE	2.5	2.1-2.8	(15%)	0.5	7.0	50
BOAT & SHORE	3.4	3.0-3.7	(10%)	0.5	10.8	141
MILES TRAVELED	35.0	30.9-39.0	(12%)	1	500	538
SUCCESS RATING (1-10)	4.3	4.1-4.5	(5%)	1	10	536

*42 samples were from split interviews of completed trips.
21.7% of all 650 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 10 out of 650 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	101	226	45	7						
SHORE INTERVIEWS	133	79	29	15	11	2	1	1		

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

338	(52.0%)	ANY	All species
4	(0.6%)	BLC	Black crappie
16	(2.5%)	BLG	Bluegill
2	(0.3%)	CAP	Carp
59	(9.1%)	CCF	Channel catfish
76	(11.7%)	CRP	Crappie spp.
3	(0.5%)	GSF	Green sunfish
119	(18.3%)	LMB	Largemouth bass
22	(3.4%)	RBT	Rainbow trout
5	(0.8%)	WHC	White crappie
6	(0.9%)	WSH	Walleye x Sauger hybrid (Saugeye)

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 x Green sunfish hybrid																
HARVEST	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	251	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Black bullhead																
HARVEST	251	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	225	14	3	-	4	6	-	-	-	-	-	-	-	-	-	-
RELEASE	230	10	8	2	-	2	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	206	21	14	8	1	-	-	-	-	-	2	-	-	-	-	-
RELEASE	170	8	23	8	5	11	8	4	5	-	1	-	1	2	-	6
Channel catfish																
HARVEST	193	36	15	4	4	-	-	-	-	-	-	-	-	-	-	-
RELEASE	238	8	2	2	-	-	-	-	2	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	251	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	249	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	249	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	241	6	4	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	196	28	12	10	4	1	-	1	-	-	-	-	-	-	-	-
Muskellunge																
HARVEST	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	248	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow trout																
HARVEST	243	3	3	-	-	3	-	-	-	-	-	-	-	-	-	-
RELEASE	246	5	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	250	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	204	20	11	6	2	8	-	-	-	-	1	-	-	-	-	-
RELEASE	194	14	15	7	13	2	-	1	3	-	3	-	-	-	-	-

Table 11 continued. 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 x Sauger hybrid (Saugeye)																
HARVEST	236	13	1	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	242	6	-	2	2	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	250	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	252	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 DAWSON LAKE
148 ACRES
REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
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: 262/693 = 37.8%

NUMBER OF INTERVIEWS: 877

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	6398	5372-7424	(16%)	43	36-50	(16%)	11%
	HOLIDAY	8907	7672-10142	(14%)	60	52-69	(14%)	23%
	TOTAL	15305	13699-16911	(10%)	103	93-114	(10%)	18%
SHORE	WEEKDAY	2581	2044-3118	(21%)	17	14-21	(21%)	15%
	HOLIDAY	2624	2112-3136	(20%)	18	14-21	(20%)	31%
	TOTAL	5205	4463-5947	(14%)	35	30-40	(14%)	23%
BOAT & SHORE	WEEKDAY	8979	7821-10138	(13%)	61	53-69	(13%)	12%
	HOLIDAY	11531	10194-12868	(12%)	78	69-87	(12%)	25%
	TOTAL	20510	18741-22279	(9%)	139	127-151	(9%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
7354	5001-9707	(32%)	.219	.158-.281	(28%)	122.86	49.72	All species
4328	2172-6484	(50%)	.101	.068-.134	(33%)	72.31	29.26	Black crappie
1467	629-2304	(57%)	.063	.026-.100	(59%)	24.50	9.92	Bluegill
			**** NOT RECORDED ****					Carp
683	324-1043	(53%)	.030	.011-.049	(63%)	11.42	4.62	Channel catfish
77	11-144	(86%)	.009	.000-.021	(145%)	1.29	0.52	Largemouth bass
7	0-22	(197%)	.002	.000-.008	(303%)	0.12	0.05	Northern pike
9	0-29	(236%)	.000	.000-.001	(245%)	0.14	0.06	Redear sunfish
199	53-346	(73%)	.006	.002-.010	(65%)	3.33	1.35	Walleye
580	148-1012	(74%)	.009	.003-.014	(68%)	9.69	3.92	White crappie
3	0-10	(245%)	.000	.000-.000	(236%)	0.05	0.02	Yellow bullhead
			**** NOT RECORDED ****					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
2130	1361-2898	(36%)	.071	.048-.093	(32%)	35.58	0.290	All species
835	393-1277	(53%)	.019	.013-.025	(32%)	13.94	0.193	Black crappie
201	65-338	(68%)	.008	.003-.013	(64%)	3.36	0.137	Bluegill
			**** NOT RECORDED ****					Carp
722	155-1289	(79%)	.023	.009-.036	(60%)	12.06	1.056	Channel catfish
75	15-136	(81%)	.008	.000-.019	(131%)	1.26	0.972	Largemouth bass
14	0-44	(203%)	.005	.000-.019	(308%)	0.24	1.922	Northern pike
1	0-2	(236%)	.000	.000-.000	(245%)	0.01	0.076	Redear sunfish
193	58-328	(70%)	.007	.002-.011	(72%)	3.22	0.967	Walleye
88	23-153	(73%)	.001	.000-.002	(68%)	1.48	0.152	White crappie
0	0-1	(236%)	.000	.000-.000	(245%)	0.01	0.154	Yellow bullhead
			**** NOT RECORDED ****					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
4695	3001-6389	(36%)	.155	.106-.205	(32%)	31.74	0.638	All species
1840	866-2814	(53%)	.042	.028-.055	(32%)	12.44	0.425	Black crappie
444	143-745	(68%)	.018	.006-.029	(64%)	3.00	0.303	Bluegill
			**** NOT RECORDED ****					Carp
1591	341-2841	(79%)	.050	.020-.080	(60%)	10.76	2.329	Channel catfish
166	32-300	(81%)	.019	.000-.043	(131%)	1.12	2.143	Largemouth bass
32	0-96	(203%)	.010	.000-.041	(308%)	0.21	4.236	Northern pike
1	0-5	(245%)	.000	.000-.000	(236%)	0.01	0.168	Redear sunfish
425	128-723	(70%)	.014	.004-.025	(72%)	2.88	2.132	Walleye
195	52-338	(73%)	.003	.001-.005	(68%)	1.32	0.336	White crappie
1	0-3	(236%)	.000	.000-.000	(236%)	0.01	0.340	Yellow bullhead
			**** NOT RECORDED ****					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
48364	32404-64324	(33%)	1.533	1.239-1.827	(19%)	808.03	327.01	All species
32978	17922-48034	(46%)	1.025	.765-1.286	(25%)	550.98	222.98	Black crappie
3262	2248-4275	(31%)	.188	.119-.257	(37%)	54.49	22.05	Bluegill
4	0-13	(257%)	.000	.000-.001	(257%)	0.06	0.02	Carp
960	553-1367	(42%)	.041	.021-.060	(47%)	16.04	6.49	Channel catfish
3127	2278-3976	(27%)	.094	.056-.133	(40%)	52.24	21.14	Largemouth bass
29	7-51	(76%)	.003	.000-.009	(181%)	0.48	0.20	Northern pike
11	0-32	(184%)	.000	.000-.001	(203%)	0.19	0.08	Redear sunfish
619	353-885	(43%)	.017	.011-.024	(38%)	10.34	4.19	Walleye
7353	4610-10095	(37%)	.162	.110-.214	(32%)	122.84	49.71	White crappie
9	0-24	(177%)	.000	.000-.001	(218%)	0.15	0.06	Yellow bullhead
13	0-69	(430%)	.001	.000-.007	(430%)	0.22	0.09	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
9245	6677-11812	(28%)	.295	.237-.354	(20%)	154.45	0.191	All species
4762	2581-6944	(46%)	.147	.110-.184	(25%)	79.57	0.144	Black crappie
324	182-466	(44%)	.016	.010-.022	(36%)	5.42	0.099	Bluegill
2	0-9	(257%)	.000	.000-.001	(257%)	0.04	0.687	Carp
885	301-1470	(66%)	.027	.013-.041	(51%)	14.79	0.922	Channel catfish
2014	1329-2700	(34%)	.071	.030-.112	(58%)	33.65	0.644	Largemouth bass
32	2-63	(95%)	.005	.000-.019	(266%)	0.54	1.110	Northern pike
1	0-2	(184%)	.000	.000-.000	(203%)	0.01	0.076	Redear sunfish
428	148-708	(65%)	.012	.006-.017	(49%)	7.15	0.691	Walleye
793	466-1120	(41%)	.017	.011-.022	(33%)	13.25	0.108	White crappie
1	0-3	(163%)	.000	.000-.000	(208%)	0.02	0.126	Yellow bullhead
1	0-3	(430%)	.000	.000-.000	(430%)	0.01	0.046	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
20381	14720-26041	(28%)	.651	.522-.781	(20%)	137.80	0.421	All species
10499	5689-15309	(46%)	.324	.242-.406	(25%)	70.99	0.318	Black crappie
715	402-1027	(44%)	.036	.023-.049	(36%)	4.83	0.219	Bluegill
5	0-19	(245%)	.000	.000-.001	(257%)	0.04	1.514	Carp
1952	663-3241	(66%)	.060	.029-.091	(51%)	13.20	2.033	Channel catfish
4440	2929-5952	(34%)	.156	.066-.246	(58%)	30.02	1.420	Largemouth bass
71	4-138	(95%)	.012	.000-.043	(266%)	0.48	2.448	Northern pike
2	0-5	(184%)	.000	.000-.000	(203%)	0.01	0.168	Redear sunfish
944	327-1560	(65%)	.026	.013-.038	(49%)	6.38	1.524	Walleye
1749	1028-2470	(41%)	.037	.024-.049	(33%)	11.82	0.238	White crappie
2	0-6	(163%)	.000	.000-.000	(208%)	0.02	0.277	Yellow bullhead
1	0-5	(318%)	.000	.000-.001	(318%)	0.01	0.100	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	3.5-4.0	(7%)	1.0	10.2	237
SHORE	2.3	2.0-2.7	(17%)	0.2	6.5	43
BOAT & SHORE	3.5	3.3-3.7	(7%)	0.2	10.2	280
MILES TRAVELED	23.9	22.5-25.3	(6%)	1	190	756
SUCCESS RATING (1-10)	4.0	3.9-4.2	(5%)	1	10	747

*41 samples were from split interviews of completed trips.
33.5% of all 835 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 835 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	141	305	41	6			1			
SHORE INTERVIEWS	144	141	42	12	1					1

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

179	(21.4%)	ANY	All species
3	(0.4%)	BLC	Black crappie
13	(1.6%)	BLG	Bluegill
2	(0.2%)	CAP	Carp
93	(11.1%)	CCF	Channel catfish
236	(28.3%)	CRP	Crappie spp.
212	(25.4%)	LMB	Largemouth bass
18	(2.2%)	WAE	Walleye
79	(9.5%)	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	467	2	1	8	-	10	3	-	2	2	2	3	1	-	-	4
RELEASE	418	9	8	11	-	6	3	-	2	-	10	-	7	-	-	31
Bluegill																
HARVEST	487	7	-	5	3	2	1	-	-	-	-	-	-	-	-	-
RELEASE	448	16	12	14	4	5	3	-	1	-	2	-	-	-	-	-
Carp																
HARVEST	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	503	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	483	13	6	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	485	15	3	1	-	-	-	1	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	492	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	364	68	38	17	7	5	1	2	-	-	-	1	-	2	-	-
Northern pike																
HARVEST	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	499	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	502	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	490	14	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	465	30	6	3	-	1	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	472	18	3	-	-	6	-	-	4	-	2	-	-	-	-	-
RELEASE	355	33	36	26	11	15	7	-	2	-	9	-	1	3	-	7
Yellow bullhead																
HARVEST	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 DEVIL'S KITCHEN
704 ACRES
REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.
Results cover 04/01/2002 through 10/31/2002
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: 312/642 = 48.6%

NUMBER OF INTERVIEWS: 1224

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	8485	7109-9861	(16%)	12	10-14	(16%)	16%
	HOLIDAY	7414	6372-8456	(14%)	11	9-12	(14%)	36%
	TOTAL	15899	14173-17625	(11%)	23	20-25	(11%)	25%
SHORE	WEEKDAY	1783	1376-2190	(23%)	3	2-3	(23%)	12%
	HOLIDAY	1246	934-1559	(25%)	2	1-2	(25%)	32%
	TOTAL	3029	2516-3542	(17%)	4	4-5	(17%)	20%
BOAT & SHORE	WEEKDAY	10268	8833-11702	(14%)	15	13-17	(14%)	15%
	HOLIDAY	8660	7572-9748	(13%)	12	11-14	(13%)	36%
	TOTAL	18928	17128-20728	(10%)	27	24-29	(10%)	25%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
18668	15768-21567	(16%)	.537	.458-.617	(15%)	65.54	26.52	All species
2453	1582-3323	(35%)	.083	.042-.124	(49%)	8.61	3.48	Black crappie
7788	6090-9487	(22%)	.202	.159-.245	(21%)	27.34	11.07	Bluegill
209	91-328	(57%)	.006	.002-.010	(65%)	0.73	0.30	Green sunfish
3967	3141-4792	(21%)	.114	.090-.139	(21%)	13.93	5.64	Largemouth bass
181	51-311	(72%)	.004	.001-.008	(77%)	0.64	0.26	Longear sunfish
1238	806-1670	(35%)	.051	.027-.074	(46%)	4.35	1.76	Rainbow trout
2410	1748-3072	(27%)	.061	.042-.079	(30%)	8.46	3.42	Redear sunfish
11	0-26	(126%)	.000	.000-.000	(124%)	0.04	0.02	Unidentified Sunfish
41	1-82	(98%)	.002	.000-.004	(129%)	0.15	0.06	Spotted bass
274	88-461	(68%)	.010	.002-.017	(80%)	0.96	0.39	Warmouth
9	0-24	(160%)	.000	.000-.001	(234%)	0.03	0.01	White crappie
58	0-127	(120%)	.003	.000-.006	(137%)	0.20	0.08	Yellow perch
28	0-77	(177%)	.001	.000-.004	(208%)	0.10	0.04	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
4034	3468-4600	(14%)	.115	.100-.131	(13%)	14.16	0.216	All species
610	402-817	(34%)	.021	.011-.030	(48%)	2.14	0.249	Black crappie
1027	786-1268	(23%)	.024	.019-.029	(21%)	3.61	0.132	Bluegill
17	5-28	(68%)	.000	.000-.001	(66%)	0.06	0.079	Green sunfish
1525	1209-1841	(21%)	.042	.033-.051	(21%)	5.35	0.384	Largemouth bass
19	7-31	(64%)	.000	.000-.001	(61%)	0.07	0.104	Longear sunfish
424	263-585	(38%)	.017	.009-.026	(50%)	1.49	0.343	Rainbow trout
326	236-417	(28%)	.008	.005-.010	(28%)	1.15	0.135	Redear sunfish
			****	NOT RECORDED	****			Unidentified Sunfish
11	1-22	(91%)	.000	.000-.001	(139%)	0.04	0.273	Spotted bass
52	15-88	(70%)	.002	.000-.003	(73%)	0.18	0.188	Warmouth
2	0-5	(179%)	.000	.000-.000	(245%)	0.01	0.200	White crappie
14	0-33	(132%)	.001	.000-.002	(150%)	0.05	0.248	Yellow perch
7	0-20	(174%)	.000	.000-.001	(207%)	0.03	0.266	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
8893	7646-10140	(14%)	.254	.220-.288	(13%)	12.64	0.476	All species
1344	887-1801	(34%)	.045	.024-.067	(48%)	1.91	0.548	Black crappie
2264	1734-2795	(23%)	.053	.042-.064	(21%)	3.22	0.291	Bluegill
37	12-62	(68%)	.001	.000-.002	(66%)	0.05	0.175	Green sunfish
3361	2664-4058	(21%)	.092	.073-.112	(21%)	4.78	0.847	Largemouth bass
42	15-68	(64%)	.001	.000-.001	(61%)	0.06	0.230	Longear sunfish
935	580-1291	(38%)	.038	.019-.057	(50%)	1.33	0.756	Rainbow trout
719	520-918	(28%)	.017	.012-.021	(28%)	1.02	0.298	Redear sunfish
			****	NOT RECORDED	****			Unidentified Sunfish
25	2-48	(91%)	.001	.000-.002	(139%)	0.04	0.602	Spotted bass
114	34-193	(70%)	.003	.001-.006	(73%)	0.16	0.414	Warmouth
4	0-11	(179%)	.000	.000-.000	(245%)	0.01	0.441	White crappie
32	0-73	(132%)	.002	.000-.004	(150%)	0.04	0.547	Yellow perch
16	0-45	(174%)	.001	.000-.002	(207%)	0.02	0.585	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
47881	40100-55663	(16%)	1.478	1.230-1.726	(17%)	168.11	68.03	All species
2973	1952-3994	(34%)	.101	.054-.149	(47%)	10.44	4.22	Black crappie
22772	18253-27291	(20%)	.657	.511-.803	(22%)	79.95	32.36	Bluegill
1768	1166-2370	(34%)	.070	.040-.100	(43%)	6.21	2.51	Green sunfish
9966	8279-11653	(17%)	.312	.254-.370	(19%)	34.99	14.16	Largemouth bass
749	293-1205	(61%)	.025	.007-.043	(74%)	2.63	1.06	Longear sunfish
1298	864-1733	(33%)	.053	.030-.076	(44%)	4.56	1.84	Rainbow trout
7157	4953-9360	(31%)	.219	.142-.295	(35%)	25.13	10.17	Redear sunfish
17	0-35	(107%)	.000	.000-.001	(195%)	0.06	0.02	Unidentified Sunfish
45	4-86	(92%)	.002	.000-.004	(125%)	0.16	0.06	Spotted bass
1037	489-1586	(53%)	.035	.017-.052	(50%)	3.64	1.47	Warmouth
15	0-42	(171%)	.000	.000-.001	(181%)	0.05	0.02	White crappie
58	0-127	(120%)	.003	.000-.006	(137%)	0.20	0.08	Yellow perch
28	0-77	(177%)	.001	.000-.004	(208%)	0.10	0.04	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
7317	6311-8322	(14%)	.216	.190-.242	(12%)	25.69	0.153	All species
676	455-897	(33%)	.022	.012-.033	(45%)	2.37	0.227	Black crappie
1963	1563-2363	(20%)	.053	.042-.064	(21%)	6.89	0.086	Bluegill
105	69-140	(34%)	.004	.002-.006	(44%)	0.37	0.059	Green sunfish
3253	2622-3884	(19%)	.093	.077-.109	(17%)	11.42	0.326	Largemouth bass
57	25-89	(56%)	.002	.001-.003	(68%)	0.20	0.076	Longear sunfish
436	273-598	(37%)	.018	.009-.027	(49%)	1.53	0.336	Rainbow trout
671	464-878	(31%)	.019	.012-.025	(34%)	2.36	0.094	Redear sunfish
			****	NOT RECORDED	****			Unidentified Sunfish
12	2-22	(86%)	.000	.000-.001	(135%)	0.04	0.270	Spotted bass
121	59-184	(52%)	.004	.002-.006	(45%)	0.43	0.117	Warmouth
2	0-5	(165%)	.000	.000-.000	(239%)	0.01	0.129	White crappie
14	0-33	(132%)	.001	.000-.002	(150%)	0.05	0.248	Yellow perch
7	0-20	(174%)	.000	.000-.001	(207%)	0.03	0.266	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
16130	13913-18347	(14%)	.476	.419-.534	(12%)	22.92	0.337	All species
1490	1003-1977	(33%)	.050	.027-.072	(45%)	2.12	0.501	Black crappie
4327	3445-5209	(20%)	.116	.092-.141	(21%)	6.15	0.190	Bluegill
231	153-310	(34%)	.010	.005-.014	(44%)	0.33	0.131	Green sunfish
7171	5780-8562	(19%)	.204	.169-.240	(17%)	10.19	0.720	Largemouth bass
125	55-196	(56%)	.004	.001-.007	(68%)	0.18	0.167	Longear sunfish
960	603-1318	(37%)	.039	.020-.058	(49%)	1.36	0.740	Rainbow trout
1479	1022-1936	(31%)	.041	.027-.055	(34%)	2.10	0.207	Redear sunfish
			****	NOT RECORDED	****			Unidentified Sunfish
27	4-49	(86%)	.001	.000-.002	(135%)	0.04	0.596	Spotted bass
267	129-406	(52%)	.009	.005-.013	(45%)	0.38	0.258	Warmouth
4	0-12	(165%)	.000	.000-.000	(239%)	0.01	0.285	White crappie
32	0-73	(132%)	.002	.000-.004	(150%)	0.04	0.547	Yellow perch
16	0-45	(174%)	.001	.000-.002	(207%)	0.02	0.585	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	3.6-3.9	(5%)	0.3	12.5	585
SHORE	2.2	2.0-2.5	(11%)	0.2	9.3	152
BOAT & SHORE	3.4	3.3-3.6	(5%)	0.2	12.5	737
MILES TRAVELED	33.3	29.6-37.0	(11%)	1	700	853
SUCCESS RATING (1-10)	6.5	6.2-6.7	(4%)	1	10	851

*323 samples were from split interviews of completed trips.
83.4% of all 884 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 884 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	262	418	22	10	1	1				
SHORE INTERVIEWS	108	42	13	5	2					

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

244	(27.6%)	ANY	All species
23	(2.6%)	BLC	Black crappie
82	(9.3%)	BLG	Bluegill
1	(0.1%)	BSS	Black bass spp.
2	(0.2%)	CAT	Unidentified catfish
52	(5.9%)	CRP	Crappie spp.
397	(44.9%)	LMB	Largemouth bass
75	(8.5%)	RBT	Rainbow trout
8	(0.9%)	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	1088	43	32	8	13	3	7	1	3	2	1	4	2	3	-	6
RELEASE	1183	13	4	11	2	1	-	-	-	-	1	-	-	-	-	1
Bluegill																
HARVEST	877	46	52	40	47	23	16	25	14	19	13	3	8	6	4	23
RELEASE	890	39	29	31	18	19	24	11	24	10	13	2	27	6	3	70
Green sunfish																
HARVEST	1176	27	10	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1080	57	25	30	8	2	6	-	1	-	1	-	4	-	-	2
Largemouth bass																
HARVEST	897	112	66	31	23	13	72	2	-	-	-	-	-	-	-	-
RELEASE	753	194	70	40	44	22	22	5	13	12	4	6	2	4	4	21
Longear sunfish																
HARVEST	1192	16	5	2	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1175	19	6	5	5	-	3	-	-	1	-	-	1	-	-	1
Rainbow trout																
HARVEST	1095	36	28	16	11	29	1	-	-	-	-	-	-	-	-	-
RELEASE	1201	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	1036	39	40	48	21	9	6	5	1	1	2	3	2	-	-	3
RELEASE	1101	18	9	11	9	7	14	5	3	3	10	3	5	-	3	15
Unidentified Sunfish hybrid																
HARVEST	1214	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1215	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spotted bass																
HARVEST	1208	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1215	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	1172	33	8	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1149	26	15	12	5	5	-	-	1	1	1	-	-	1	-	-
White crappie																
HARVEST	1214	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1214	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	1208	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11, continued. 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 bass																	
HARVEST	1210	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 EAST FORK
935 ACRES
REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
Year periods stratified.
Day types (weekday vs. weekend/holiday) stratified.
Day periods (morning, midday, and afternoon) stratified.
Yearperiod 7 coalesced with yearperiod 8.

SAMPLING RATIO: 310/693 = 44.7%

NUMBER OF INTERVIEWS: 2969

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

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI		HOURS/ACRE	95% CI		% EFF
BOAT & SHORE	WEEKDAY	26954	24062-29846	(11%)	29	26-32	(11%)	12%
	HOLIDAY	37429	32476-42381	(13%)	40	35-45	(13%)	26%
	TOTAL	64383	58647-70118	(9%)	69	63-75	(9%)	20%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
111909	98216-125602	(12%)	1.725	1.535-1.915	(11%)	295.75	119.69	All species
5	0-17	(218%)	.000	.000-.001	(218%)	0.01	0.01	Blue catfish
141	0-473	(236%)	.000	.000-.001	(245%)	0.37	0.15	Black crappie
67605	55974-79236	(17%)	.889	.742-1.037	(17%)	178.66	72.30	Bluegill
			****	NOT RECORDED	****			Bowfin
309	187-432	(40%)	.007	.003-.011	(53%)	0.82	0.33	Channel catfish
246	113-379	(54%)	.005	.001-.008	(71%)	0.65	0.26	Largemouth bass
255	0-523	(105%)	.004	.000-.009	(105%)	0.67	0.27	Redear sunfish
803	490-1115	(39%)	.009	.004-.015	(57%)	2.12	0.86	Walleye
42545	36684-48406	(14%)	.809	.682-.936	(16%)	112.44	45.50	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
13869	12112-15626	(13%)	.218	.183-.253	(16%)	36.65	0.124	All species
6	0-21	(220%)	.000	.000-.001	(218%)	0.02	1.185	Blue catfish
8	0-28	(245%)	.000	.000-.000	(245%)	0.02	0.058	Black crappie
6801	5603-7998	(18%)	.090	.074-.105	(17%)	17.97	0.101	Bluegill
			****	NOT RECORDED	****			Bowfin
195	117-272	(40%)	.005	.002-.007	(52%)	0.51	0.629	Channel catfish
291	125-456	(57%)	.005	.002-.009	(69%)	0.77	1.181	Largemouth bass
51	2-100	(97%)	.001	.000-.002	(107%)	0.13	0.200	Redear sunfish
499	316-681	(37%)	.006	.003-.009	(52%)	1.32	0.621	Walleye
6019	4880-7157	(19%)	.111	.078-.144	(30%)	15.91	0.141	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
30576	26703-34449	(13%)	.481	.404-.558	(16%)	32.70	0.273	All species
14	0-46	(220%)	.000	.000-.001	(220%)	0.02	2.612	Blue catfish
18	0-62	(245%)	.000	.000-.000	(236%)	0.02	0.128	Black crappie
14993	12353-17632	(18%)	.198	.163-.232	(17%)	16.03	0.222	Bluegill
			****	NOT RECORDED	****			Bowfin
429	258-600	(40%)	.010	.005-.015	(52%)	0.46	1.386	Channel catfish
641	276-1006	(57%)	.012	.004-.020	(69%)	0.69	2.603	Largemouth bass
112	4-221	(97%)	.002	.000-.004	(107%)	0.12	0.441	Redear sunfish
1099	696-1502	(37%)	.013	.006-.020	(52%)	1.18	1.369	Walleye
13269	10760-15779	(19%)	.245	.173-.318	(30%)	14.19	0.312	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
163112	145954-180270	(11%)	2.460	2.262-2.659	(8%)	431.07	174.45	All species
5	0-17	(218%)	.000	.000-.001	(218%)	0.01	0.01	Blue catfish
211	0-556	(163%)	.005	.000-.013	(188%)	0.56	0.23	Black crappie
77287	64362-90211	(17%)	1.033	.867-1.200	(16%)	204.25	82.66	Bluegill
5	0-15	(220%)	.000	.000-.000	(220%)	0.01	0.00	Bowfin
462	299-626	(35%)	.011	.006-.015	(45%)	1.22	0.49	Channel catfish
25596	22101-29090	(14%)	.360	.316-.405	(12%)	67.64	27.38	Largemouth bass
255	0-523	(105%)	.004	.000-.009	(105%)	0.67	0.27	Redear sunfish
2337	1787-2887	(24%)	.033	.024-.043	(29%)	6.18	2.50	Walleye
56954	48718-65191	(14%)	1.014	.867-1.160	(14%)	150.52	60.91	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
32923	29605-36241	(10%)	.488	.448-.529	(8%)	87.01	0.202	All species
6	0-21	(220%)	.000	.000-.001	(218%)	0.02	1.185	Blue catfish
12	0-33	(162%)	.000	.000-.001	(198%)	0.03	0.059	Black crappie
7414	6153-8675	(17%)	.099	.083-.116	(17%)	19.59	0.096	Bluegill
1	0-3	(218%)	.000	.000-.000	(220%)	0.00	0.208	Bowfin
322	191-453	(41%)	.008	.003-.014	(67%)	0.85	0.696	Channel catfish
17056	14567-19544	(15%)	.240	.208-.272	(13%)	45.07	0.666	Largemouth bass
51	2-100	(97%)	.001	.000-.002	(107%)	0.13	0.200	Redear sunfish
996	757-1235	(24%)	.014	.010-.018	(30%)	2.63	0.426	Walleye
7065	5734-8395	(19%)	.126	.092-.160	(27%)	18.67	0.124	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
72583	65269-79897	(10%)	1.077	.988-1.166	(8%)	77.63	0.445	All species
14	0-46	(220%)	.000	.000-.001	(220%)	0.02	2.612	Blue catfish
27	0-72	(162%)	.001	.000-.002	(198%)	0.03	0.130	Black crappie
16345	13565-19126	(17%)	.219	.182-.255	(17%)	17.48	0.211	Bluegill
2	0-7	(218%)	.000	.000-.000	(218%)	0.00	0.460	Bowfin
710	421-998	(41%)	.019	.006-.031	(67%)	0.76	1.535	Channel catfish
37601	32114-43088	(15%)	.529	.459-.599	(13%)	40.22	1.469	Largemouth bass
112	4-221	(97%)	.002	.000-.004	(107%)	0.12	0.441	Redear sunfish
2196	1669-2722	(24%)	.030	.021-.039	(30%)	2.35	0.939	Walleye
15575	12641-18509	(19%)	.277	.203-.352	(27%)	16.66	0.273	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	5.3	5.1-5.5	(3%)	0.2	12.8	829
SHORE	1.8	1.0-2.6	(44%)	1.2	2.3	4
BOAT & SHORE	5.3	5.1-5.5	(3%)	0.2	12.8	833
MILES TRAVELED	59.3	55.5-63.1	(6%)	1	1100	1828
SUCCESS RATING (1-10)	5.4	5.3-5.5	(2%)	1	10	1802

*612 samples were from split interviews of completed trips.
35.6% of all 2339 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 2339 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	715	1443	140	19						
SHORE INTERVIEWS	12	4	6							

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

368	(15.7%)	ANY	All species
2	(0.1%)	BLC	Black crappie
377	(16.1%)	BLG	Bluegill
9	(0.4%)	CCF	Channel catfish
1095	(46.8%)	LMB	Largemouth bass
103	(4.4%)	WAE	Walleye
385	(16.5%)	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	1496	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
RELEASE	1495	-	3	-	-	-	1	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	1298	5	22	11	3	5	12	3	6	8	8	2	1	11	3	101
RELEASE	1367	25	37	32	16	6	4	-	4	-	7	-	-	-	-	1
Channel catfish																
HARVEST	1490	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1492	5	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1486	9	3	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	469	67	110	243	292	180	61	31	22	8	7	6	2	1	-	-
Redear sunfish																
HARVEST	1496	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	1467	21	7	1	-	-	1	2	-	-	-	-	-	-	-	-
RELEASE	1437	28	14	11	8	1	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1233	5	18	38	40	16	7	11	12	14	10	7	8	5	6	69
RELEASE	1261	56	50	47	13	17	14	7	11	-	12	-	1	6	-	4

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 PISTAKEE
1675 ACRES
REGION 2, DISTRICT 7

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
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: 296/693 = 42.7%

NUMBER OF INTERVIEWS: 1296

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	9153	7503-10802	(18%)	5	4-6	(18%)	7%
	HOLIDAY	10443	8857-12030	(15%)	6	5-7	(15%)	14%
	TOTAL	19596	17308-21885	(12%)	12	10-13	(12%)	11%
SHORE	WEEKDAY	7416	5406-9426	(27%)	4	3-6	(27%)	6%
	HOLIDAY	6925	5587-8262	(19%)	4	3-5	(19%)	14%
	TOTAL	14341	11996-16686	(16%)	9	7-10	(16%)	10%
BOAT & SHORE	WEEKDAY	16568	14032-19105	(15%)	10	8-11	(15%)	6%
	HOLIDAY	17368	15294-19443	(12%)	10	9-12	(12%)	14%
	TOTAL	33937	30660-37213	(10%)	20	18-22	(10%)	10%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
17435	13251-21619	(24%)	.290	.231-.350	(20%)	25.72	10.41	All species
1541	622-2459	(60%)	.036	.019-.054	(49%)	2.27	0.92	Black crappie
5238	3359-7117	(36%)	.076	.053-.099	(30%)	7.73	3.13	Bluegill
154	54-253	(65%)	.002	.000-.003	(77%)	0.23	0.09	Carp
2447	1690-3204	(31%)	.046	.031-.060	(31%)	3.61	1.46	Channel catfish
10	0-37	(278%)	.000	.000-.000	(257%)	0.01	0.01	Flathead catfish
2397	1532-3263	(36%)	.043	.020-.066	(53%)	3.54	1.43	Freshwater drum
218	51-385	(76%)	.006	.000-.013	(107%)	0.32	0.13	Green sunfish
54	0-115	(112%)	.001	.000-.003	(177%)	0.08	0.03	Largemouth bass
5	0-16	(257%)	.000	.000-.000	(278%)	0.01	0.00	Longear sunfish
			****	NOT RECORDED	****			Shorthead redhorse
			****	NOT RECORDED	****			Smallmouth bass
4	0-17	(278%)	.000	.000-.000	(257%)	0.01	0.00	Striped bass
752	532-971	(29%)	.019	.011-.027	(44%)	1.11	0.45	Walleye
4024	1221-6827	(70%)	.051	.024-.079	(54%)	5.94	2.40	White bass
340	110-569	(68%)	.005	.002-.008	(63%)	0.50	0.20	White crappie
46	0-104	(125%)	.001	.000-.002	(132%)	0.07	0.03	Yellow bullhead
79	16-142	(80%)	.001	.000-.004	(144%)	0.12	0.05	Yellow perch
126	22-231	(83%)	.003	.000-.006	(106%)	0.19	0.08	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
5665	4425-6906	(22%)	.093	.075-.111	(19%)	8.36	0.325	All species
381	120-642	(68%)	.008	.004-.013	(50%)	0.56	0.248	Black crappie
654	417-892	(36%)	.010	.007-.012	(30%)	0.97	0.125	Bluegill
255	68-443	(73%)	.002	.001-.004	(75%)	0.38	1.663	Carp
1715	1158-2273	(33%)	.031	.021-.042	(33%)	2.53	0.701	Channel catfish
6	0-20	(257%)	.000	.000-.000	(257%)	0.01	0.570	Flathead catfish
1022	440-1605	(57%)	.015	.009-.022	(42%)	1.51	0.426	Freshwater drum
17	4-30	(76%)	.001	.000-.001	(111%)	0.03	0.078	Green sunfish
42	0-94	(123%)	.001	.000-.003	(169%)	0.06	0.778	Largemouth bass
1	0-3	(278%)	.000	.000-.000	(278%)	0.00	0.187	Longear sunfish
			****	NOT RECORDED	****			Shorthead redhorse
			****	NOT RECORDED	****			Smallmouth bass
1	0-5	(278%)	.000	.000-.000	(278%)	0.00	0.266	Striped bass
508	334-683	(34%)	.012	.007-.018	(44%)	0.75	0.676	Walleye
911	198-1624	(78%)	.010	.005-.015	(51%)	1.34	0.226	White bass
101	25-177	(75%)	.001	.000-.002	(69%)	0.15	0.297	White crappie
16	0-36	(129%)	.000	.000-.001	(156%)	0.02	0.345	Yellow bullhead
9	2-17	(83%)	.000	.000-.000	(134%)	0.01	0.116	Yellow perch
24	2-46	(90%)	.001	.000-.001	(118%)	0.04	0.192	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
12490	9755-15225	(22%)	.206	.166-.246	(19%)	7.46	0.716	All species
841	266-1416	(68%)	.018	.009-.028	(50%)	0.50	0.546	Black crappie
1443	919-1967	(36%)	.021	.015-.027	(30%)	0.86	0.275	Bluegill
563	150-977	(73%)	.005	.001-.010	(75%)	0.34	3.667	Carp
3782	2552-5011	(33%)	.069	.046-.092	(33%)	2.26	1.545	Channel catfish
12	0-46	(278%)	.000	.000-.000	(278%)	0.01	1.256	Flathead catfish
2254	969-3538	(57%)	.034	.020-.048	(42%)	1.35	0.940	Freshwater drum
38	9-66	(76%)	.001	.000-.002	(111%)	0.02	0.172	Green sunfish
93	0-208	(123%)	.002	.000-.006	(169%)	0.06	1.716	Largemouth bass
2	0-7	(257%)	.000	.000-.000	(278%)	0.00	0.412	Longear sunfish
			****	NOT RECORDED	****			Shorthead redhorse
			****	NOT RECORDED	****			Smallmouth bass
3	0-10	(278%)	.000	.000-.000	(257%)	0.00	0.587	Striped bass
1121	735-1507	(34%)	.027	.015-.039	(44%)	0.67	1.491	Walleye
2008	436-3581	(78%)	.022	.011-.034	(51%)	1.20	0.499	White bass
223	56-389	(75%)	.003	.001-.005	(69%)	0.13	0.655	White crappie
35	0-80	(129%)	.001	.000-.002	(156%)	0.02	0.760	Yellow bullhead
20	3-37	(83%)	.000	.000-.001	(134%)	0.01	0.256	Yellow perch
53	5-101	(90%)	.001	.000-.003	(118%)	0.03	0.423	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
53155	43779-62532	(18%)	.975	.817-1.133	(16%)	78.41	31.73	All species
4125	1379-6871	(67%)	.085	.037-.133	(57%)	6.08	2.46	Black crappie
9648	6573-12722	(32%)	.151	.105-.197	(31%)	14.23	5.76	Bluegill
719	275-1162	(62%)	.011	.005-.017	(53%)	1.06	0.43	Carp
4127	3268-4986	(21%)	.081	.063-.098	(22%)	6.09	2.46	Channel catfish
25	0-66	(167%)	.001	.000-.002	(227%)	0.04	0.01	Flathead catfish
10060	7904-12216	(21%)	.171	.134-.208	(22%)	14.84	6.01	Freshwater drum
224	56-391	(75%)	.006	.000-.013	(106%)	0.33	0.13	Green sunfish
2667	1980-3353	(26%)	.052	.034-.070	(34%)	3.93	1.59	Largemouth bass
5	0-16	(257%)	.000	.000-.000	(278%)	0.01	0.00	Longear sunfish
8	0-27	(220%)	.000	.000-.000	(220%)	0.01	0.01	Shorthead redhorse
132	38-226	(71%)	.003	.000-.006	(92%)	0.20	0.08	Smallmouth bass
4	0-17	(278%)	.000	.000-.000	(257%)	0.01	0.00	Striped bass
8867	7085-10649	(20%)	.183	.140-.226	(24%)	13.08	5.29	Walleye
11462	6624-16301	(42%)	.211	.111-.312	(48%)	16.91	6.84	White bass
617	296-937	(52%)	.009	.004-.014	(60%)	0.91	0.37	White crappie
58	0-119	(108%)	.001	.000-.002	(125%)	0.08	0.03	Yellow bullhead
160	74-246	(54%)	.003	.001-.005	(82%)	0.24	0.10	Yellow perch
249	48-450	(81%)	.006	.000-.013	(110%)	0.37	0.15	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
14679	12241-17117	(17%)	.260	.220-.300	(16%)	21.65	0.276	All species
880	169-1591	(81%)	.017	.006-.027	(65%)	1.30	0.213	Black crappie
964	652-1276	(32%)	.015	.011-.020	(28%)	1.42	0.100	Bluegill
643	266-1020	(59%)	.010	.005-.014	(47%)	0.95	0.895	Carp
2402	1816-2987	(24%)	.045	.034-.056	(25%)	3.54	0.582	Channel catfish
10	0-27	(161%)	.000	.000-.001	(211%)	0.02	0.414	Flathead catfish
3272	2512-4032	(23%)	.052	.041-.063	(21%)	4.83	0.325	Freshwater drum
17	4-30	(75%)	.001	.000-.001	(110%)	0.03	0.077	Green sunfish
1006	680-1333	(32%)	.017	.010-.024	(40%)	1.48	0.377	Largemouth bass
1	0-3	(278%)	.000	.000-.000	(278%)	0.00	0.187	Longear sunfish
1	0-4	(218%)	.000	.000-.000	(220%)	0.00	0.162	Shorthead redhorse
61	17-106	(73%)	.002	.000-.003	(114%)	0.09	0.463	Smallmouth bass
1	0-5	(278%)	.000	.000-.000	(278%)	0.00	0.266	Striped bass
3094	2430-3758	(21%)	.062	.046-.078	(26%)	4.56	0.349	Walleye
2100	998-3202	(52%)	.037	.017-.056	(52%)	3.10	0.183	White bass
148	59-236	(60%)	.002	.001-.003	(58%)	0.22	0.240	White crappie
22	0-46	(109%)	.000	.000-.001	(146%)	0.03	0.382	Yellow bullhead
15	7-24	(56%)	.000	.000-.000	(89%)	0.02	0.094	Yellow perch
40	11-70	(73%)	.001	.000-.002	(97%)	0.06	0.161	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
32362	26987-37738	(17%)	.573	.484-.662	(16%)	19.32	0.609	All species
1941	373-3508	(81%)	.037	.013-.060	(65%)	1.16	0.470	Black crappie
2126	1438-2813	(32%)	.033	.024-.043	(28%)	1.27	0.220	Bluegill
1418	587-2249	(59%)	.021	.011-.031	(47%)	0.85	1.973	Carp
5295	4003-6586	(24%)	.100	.075-.124	(25%)	3.16	1.283	Channel catfish
23	0-59	(161%)	.000	.000-.001	(211%)	0.01	0.912	Flathead catfish
7214	5538-8890	(23%)	.114	.090-.139	(21%)	4.31	0.717	Freshwater drum
38	10-67	(75%)	.001	.000-.002	(110%)	0.02	0.171	Green sunfish
2218	1499-2938	(32%)	.038	.023-.053	(40%)	1.32	0.832	Largemouth bass
2	0-7	(257%)	.000	.000-.000	(278%)	0.00	0.412	Longear sunfish
3	0-10	(220%)	.000	.000-.000	(220%)	0.00	0.357	Shorthead redhorse
135	37-233	(73%)	.004	.000-.008	(114%)	0.08	1.021	Smallmouth bass
3	0-10	(278%)	.000	.000-.000	(257%)	0.00	0.587	Striped bass
6822	5358-8286	(21%)	.136	.101-.171	(26%)	4.07	0.769	Walleye
4630	2201-7060	(52%)	.080	.038-.122	(52%)	2.76	0.404	White bass
326	131-521	(60%)	.005	.002-.007	(58%)	0.19	0.529	White crappie
48	0-101	(109%)	.001	.000-.002	(146%)	0.03	0.842	Yellow bullhead
33	14-52	(56%)	.001	.000-.001	(89%)	0.02	0.208	Yellow perch
88	24-153	(73%)	.002	.000-.004	(97%)	0.05	0.356	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	1.9	1.3-2.5	(31%)	0.4	4.8	24
SHORE	2.2	1.8-2.7	(20%)	0.4	4.0	35
BOAT & SHORE	2.1	1.8-2.4	(16%)	0.4	4.8	59
MILES TRAVELED	25.1	22.8-27.5	(9%)	1	1100	1153
SUCCESS RATING (1-10)	2.4	2.3-2.5	(4%)	1	10	1117

*11 samples were from split interviews of completed trips.
4.6% of all 1285 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 4 out of 1285 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	276	425	94	7	3					
SHORE INTERVIEWS	212	204	55	5	2	2				

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

207	(16.1%)	ANY	All species
45	(3.5%)	BLG	Bluegill
9	(0.7%)	CAP	Carp
1	(0.1%)	CAT	Unidentified catfish
140	(10.9%)	CCF	Channel catfish
104	(8.1%)	CRP	Crappie spp.
5	(0.4%)	FRD	Freshwater drum
96	(7.5%)	LMB	Largemouth bass
5	(0.4%)	MUE	Muskellunge
1	(0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
629	(48.9%)	WAE	Walleye
43	(3.3%)	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+
Black crappie																
HARVEST	104	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	105	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	102	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	93	7	5	-	1	-	-	-	1	-	-	-	-	-	-	-
RELEASE	96	5	6	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	97	4	2	4	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	77	13	8	-	6	-	2	-	-	-	1	-	-	-	-	-
Largemouth bass																
HARVEST	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	105	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	105	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	105	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	90	10	2	3	2	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	101	3	2	-	-	-	-	-	-	-	-	-	-	-	-	1
RELEASE	102	3	-	-	2	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	106	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	106	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	106	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	106	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	107	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	104	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 PETITE LAKE
201 ACRES
REGION 2, DISTRICT 7

STRATIFICATION SUMMARY:

Day creel only.
Results cover 05/17/2002 through 10/31/2002
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: 222/504 = 44.0%

NUMBER OF INTERVIEWS: 609

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	3754	3015-4493	(20%)	19	15-22	(20%)	18%
	HOLIDAY	2849	2498-3201	(12%)	14	12-16	(12%)	40%
	TOTAL	6603	5813-7394	(12%)	33	29-37	(12%)	28%
SHORE	WEEKDAY	743	534-952	(28%)	4	3-5	(28%)	14%
	HOLIDAY	414	312-516	(25%)	2	2-3	(25%)	34%
	TOTAL	1157	924-1389	(20%)	6	5-7	(20%)	21%
BOAT & SHORE	WEEKDAY	4497	3758-5235	(16%)	22	19-26	(16%)	18%
	HOLIDAY	3263	2898-3629	(11%)	16	14-18	(11%)	39%
	TOTAL	7760	6936-8584	(11%)	39	34-43	(11%)	27%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
4216	3287-5145	(22%)	.358	.262-.454	(27%)	51.75	20.94	All species
11	0-34	(209%)	.002	.000-.006	(209%)	0.13	0.05	Black bullhead
430	107-753	(75%)	.033	.002-.064	(94%)	5.28	2.14	Black crappie
2603	1888-3318	(27%)	.242	.162-.322	(33%)	31.96	12.93	Bluegill
1	0-5	(213%)	.001	.000-.004	(213%)	0.02	0.01	Brown bullhead
10	0-23	(125%)	.003	.000-.007	(145%)	0.13	0.05	Carp
417	210-624	(50%)	.032	.018-.046	(45%)	5.12	2.07	Channel catfish
3	0-11	(223%)	.001	.000-.002	(226%)	0.04	0.02	Flathead catfish
146	81-212	(45%)	.011	.005-.017	(54%)	1.80	0.73	Freshwater drum
88	35-141	(60%)	.007	.001-.014	(87%)	1.08	0.44	Largemouth bass
			****	NOT RECORDED	****			Longear sunfish
			****	NOT RECORDED	****			Muskellunge
			****	NOT RECORDED	****			Northern pike
			****	NOT RECORDED	****			Orangespotted sunfish
2	0-9	(318%)	.000	.000-.000	(430%)	0.03	0.01	Rock bass
			****	NOT RECORDED	****			Smallmouth bass
62	20-104	(68%)	.003	.001-.005	(74%)	0.76	0.31	Walleye
163	81-244	(50%)	.009	.003-.016	(72%)	2.00	0.81	White bass
162	49-276	(70%)	.006	.002-.010	(63%)	1.99	0.81	White crappie
60	7-114	(89%)	.005	.000-.009	(93%)	0.74	0.30	Yellow perch
56	13-98	(76%)	.002	.000-.004	(79%)	0.68	0.28	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
832	644-1020	(23%)	.070	.050-.089	(28%)	10.21	0.197	All species
4	0-11	(209%)	.001	.000-.002	(209%)	0.05	0.339	Black bullhead
77	34-119	(55%)	.006	.001-.010	(76%)	0.94	0.178	Black crappie
316	226-405	(28%)	.028	.019-.038	(33%)	3.87	0.121	Bluegill
0	0-1	(214%)	.000	.000-.001	(214%)	0.00	0.282	Brown bullhead
11	0-33	(195%)	.002	.000-.006	(149%)	0.14	1.079	Carp
216	98-334	(54%)	.019	.005-.034	(74%)	2.65	0.518	Channel catfish
0	0-2	(223%)	.000	.000-.000	(226%)	0.01	0.146	Flathead catfish
21	12-30	(44%)	.002	.001-.003	(71%)	0.26	0.144	Freshwater drum
75	28-122	(63%)	.005	.000-.010	(97%)	0.92	0.852	Largemouth bass
			****	NOT RECORDED	****			Longear sunfish
			****	NOT RECORDED	****			Muskellunge
			****	NOT RECORDED	****			Northern pike
			****	NOT RECORDED	****			Orangespotted sunfish
0	0-2	(430%)	.000	.000-.000	(430%)	0.00	0.166	Rock bass
			****	NOT RECORDED	****			Smallmouth bass
36	8-64	(78%)	.002	.000-.003	(72%)	0.44	0.579	Walleye
40	13-66	(67%)	.002	.000-.005	(98%)	0.48	0.243	White bass
18	4-32	(76%)	.001	.000-.001	(70%)	0.23	0.113	White crappie
7	0-19	(158%)	.001	.000-.001	(166%)	0.09	0.120	Yellow perch
10	1-20	(92%)	.000	.000-.001	(95%)	0.13	0.184	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
1833	1419-2248	(23%)	.153	.111-.196	(28%)	9.11	0.435	All species
8	0-25	(209%)	.001	.000-.004	(209%)	0.04	0.748	Black bullhead
169	76-263	(55%)	.012	.003-.021	(76%)	0.84	0.393	Black crappie
696	499-892	(28%)	.063	.042-.083	(33%)	3.46	0.267	Bluegill
1	0-3	(213%)	.001	.000-.002	(214%)	0.00	0.622	Brown bullhead
25	0-72	(195%)	.005	.000-.013	(149%)	0.12	2.379	Carp
476	217-736	(54%)	.042	.011-.074	(74%)	2.37	1.142	Channel catfish
1	0-4	(226%)	.000	.000-.001	(223%)	0.01	0.322	Flathead catfish
46	26-67	(44%)	.004	.001-.007	(71%)	0.23	0.318	Freshwater drum
165	61-270	(63%)	.012	.000-.023	(97%)	0.82	1.879	Largemouth bass
			****	NOT RECORDED	****			Longear sunfish
			****	NOT RECORDED	****			Muskellunge
			****	NOT RECORDED	****			Northern pike
			****	NOT RECORDED	****			Orangespotted sunfish
1	0-3	(318%)	.000	.000-.000	(430%)	0.00	0.367	Rock bass
			****	NOT RECORDED	****			Smallmouth bass
79	18-140	(78%)	.003	.001-.006	(72%)	0.39	1.277	Walleye
87	29-145	(67%)	.005	.000-.011	(98%)	0.43	0.535	White bass
40	10-71	(76%)	.002	.001-.003	(70%)	0.20	0.249	White crappie
16	0-41	(158%)	.001	.000-.003	(166%)	0.08	0.265	Yellow perch
23	2-44	(92%)	.001	.000-.002	(95%)	0.11	0.407	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
9555	7726-11385	(19%)	.768	.558-.979	(27%)	117.29	47.47	All species
17	0-42	(147%)	.002	.000-.006	(175%)	0.21	0.08	Black bullhead
780	265-1295	(66%)	.066	.000-.132	(100%)	9.58	3.88	Black crappie
4742	3417-6067	(28%)	.422	.270-.573	(36%)	58.21	23.56	Bluegill
1	0-5	(213%)	.001	.000-.004	(213%)	0.02	0.01	Brown bullhead
43	3-83	(94%)	.007	.001-.013	(87%)	0.52	0.21	Carp
854	536-1172	(37%)	.067	.047-.088	(30%)	10.48	4.24	Channel catfish
3	0-11	(223%)	.001	.000-.002	(226%)	0.04	0.02	Flathead catfish
610	418-802	(31%)	.042	.028-.056	(34%)	7.49	3.03	Freshwater drum
696	459-934	(34%)	.044	.027-.062	(39%)	8.55	3.46	Largemouth bass
2	0-10	(318%)	.000	.000-.000	(278%)	0.03	0.01	Longear sunfish
26	0-55	(115%)	.001	.000-.002	(162%)	0.31	0.13	Muskellunge
8	0-26	(241%)	.001	.000-.004	(300%)	0.09	0.04	Northern pike
7	0-24	(226%)	.002	.000-.007	(223%)	0.09	0.04	Orangespotted sunfish
2	0-9	(318%)	.000	.000-.000	(430%)	0.03	0.01	Rock bass
27	0-69	(158%)	.002	.000-.004	(148%)	0.33	0.13	Smallmouth bass
617	256-979	(59%)	.030	.016-.044	(47%)	7.58	3.07	Walleye
433	294-573	(32%)	.034	.020-.048	(42%)	5.32	2.15	White bass
322	125-519	(61%)	.015	.008-.022	(48%)	3.95	1.60	White crappie
277	132-422	(52%)	.027	.011-.043	(61%)	3.40	1.38	Yellow perch
87	8-166	(91%)	.004	.000-.008	(108%)	1.07	0.43	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
1728	1434-2021	(17%)	.131	.104-.158	(21%)	21.21	0.181	All species
9	0-20	(123%)	.001	.000-.002	(149%)	0.11	0.520	Black bullhead
104	49-159	(53%)	.008	.001-.014	(85%)	1.28	0.133	Black crappie
439	325-552	(26%)	.039	.027-.051	(31%)	5.38	0.092	Bluegill
0	0-1	(214%)	.000	.000-.001	(214%)	0.00	0.282	Brown bullhead
31	1-60	(96%)	.005	.000-.011	(99%)	0.38	0.717	Carp
381	234-528	(39%)	.031	.016-.047	(49%)	4.68	0.446	Channel catfish
0	0-2	(223%)	.000	.000-.000	(226%)	0.01	0.146	Flathead catfish
117	55-179	(53%)	.008	.003-.013	(60%)	1.44	0.192	Freshwater drum
280	181-380	(35%)	.018	.009-.026	(50%)	3.44	0.402	Largemouth bass
0	0-1	(278%)	.000	.000-.000	(278%)	0.00	0.087	Longear sunfish
56	0-133	(136%)	.001	.000-.003	(162%)	0.69	2.198	Muskellunge
6	0-17	(159%)	.001	.000-.003	(275%)	0.08	0.849	Northern pike
0	0-1	(223%)	.000	.000-.000	(223%)	0.00	0.054	Orangespotted sunfish
0	0-2	(430%)	.000	.000-.000	(430%)	0.00	0.166	Rock bass
5	0-12	(146%)	.000	.000-.001	(186%)	0.06	0.187	Smallmouth bass
155	91-220	(42%)	.008	.004-.012	(49%)	1.91	0.252	Walleye
79	39-119	(50%)	.005	.003-.008	(53%)	0.98	0.183	White bass
30	11-49	(63%)	.001	.001-.002	(51%)	0.37	0.093	White crappie
21	3-39	(88%)	.002	.000-.004	(84%)	0.26	0.075	Yellow perch
12	1-23	(91%)	.000	.000-.001	(95%)	0.15	0.139	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
3809	3162-4456	(17%)	.289	.229-.349	(21%)	18.92	0.399	All species
19	0-43	(123%)	.002	.000-.005	(149%)	0.10	1.147	Black bullhead
229	108-350	(53%)	.017	.003-.032	(85%)	1.14	0.294	Black crappie
967	716-1218	(26%)	.086	.059-.113	(31%)	4.80	0.204	Bluegill
1	0-3	(213%)	.001	.000-.002	(214%)	0.00	0.622	Brown bullhead
67	3-132	(96%)	.012	.000-.024	(99%)	0.33	1.582	Carp
840	516-1164	(39%)	.069	.035-.103	(49%)	4.17	0.984	Channel catfish
1	0-4	(226%)	.000	.000-.001	(223%)	0.01	0.322	Flathead catfish
258	122-395	(53%)	.019	.007-.030	(60%)	1.28	0.424	Freshwater drum
618	399-837	(35%)	.039	.019-.058	(50%)	3.07	0.887	Largemouth bass
0	0-2	(318%)	.000	.000-.000	(318%)	0.00	0.191	Longear sunfish
124	0-292	(136%)	.003	.000-.008	(162%)	0.62	4.847	Muskellunge
14	0-36	(159%)	.002	.000-.006	(275%)	0.07	1.872	Northern pike
1	0-3	(223%)	.000	.000-.001	(223%)	0.00	0.120	Orangespotted sunfish
1	0-3	(318%)	.000	.000-.000	(430%)	0.00	0.367	Rock bass
11	0-27	(146%)	.000	.000-.001	(186%)	0.05	0.412	Smallmouth bass
343	200-485	(42%)	.018	.009-.027	(49%)	1.70	0.555	Walleye
175	87-263	(50%)	.012	.006-.018	(53%)	0.87	0.404	White bass
66	24-108	(63%)	.003	.002-.005	(51%)	0.33	0.206	White crappie
46	6-86	(88%)	.005	.001-.009	(84%)	0.23	0.165	Yellow perch
27	2-51	(91%)	.001	.000-.002	(95%)	0.13	0.306	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	2.0	1.5-2.5	(26%)	0.5	4.6	22
SHORE	1.7	0.8-2.6	(51%)	0.5	3.2	8
BOAT & SHORE	1.9	1.5-2.3	(22%)	0.5	4.6	30
MILES TRAVELED	29.2	25.5-33.0	(13%)	1	915	573
SUCCESS RATING (1-10)	4.0	3.8-4.2	(5%)	1	10	549

*1 samples were from split interviews of completed trips.
4.9% of all 608 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 608 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	113	303	75	15	1	2				
SHORE INTERVIEWS	48	43	5	3						

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

262	(43.1%)	ANY	All species
77	(12.7%)	BLG	Bluegill
2	(0.3%)	CAP	Carp
12	(2.0%)	CCF	Channel catfish
44	(7.2%)	CRP	Crappie spp.
77	(12.7%)	LMB	Largemouth bass
29	(4.8%)	MUE	Muskellunge
97	(16.0%)	WAE	Walleye
6	(1.0%)	WHB	White bass
2	(0.3%)	YEP	Yellow perch

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	53	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	52	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	48	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	48	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Brown bullhead																
HARVEST	53	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	51	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	43	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	53	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	53	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	52	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	51	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	48	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	51	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	52	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	52	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	52	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	53	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	52	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 MERMET
439 ACRES
REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
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: 289/693 = 41.7%

NUMBER OF INTERVIEWS: 1826

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	7014	6027-8001	(14%)	16	14-18	(14%)	24%
	HOLIDAY	7874	6286-9463	(20%)	18	14-22	(20%)	53%
	TOTAL	14889	13083-16694	(12%)	34	30-38	(12%)	39%
SHORE	WEEKDAY	5533	4719-6347	(15%)	13	11-14	(15%)	18%
	HOLIDAY	3724	3254-4194	(13%)	8	7-10	(13%)	43%
	TOTAL	9257	8318-10197	(10%)	21	19-23	(10%)	28%
BOAT & SHORE	WEEKDAY	12547	11268-13826	(10%)	29	26-31	(10%)	21%
	HOLIDAY	11598	9949-13248	(14%)	26	23-30	(14%)	50%
	TOTAL	24146	22111-26181	(8%)	55	50-60	(8%)	35%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
15603	11299-19907	(28%)	.527	.454-.601 (14%)	87.83	35.54	All species
9	0-29	(220%)	.000	.000-.001 (220%)	0.05	0.02	Blue catfish
2	0-6	(154%)	.000	.000-.000 (164%)	0.01	0.01	Bigmouth buffalo
			****	NOT RECORDED ****			Black bullhead
1295	816-1775	(37%)	.041	.023-.060 (45%)	7.29	2.95	Black crappie
2235	1755-2716	(21%)	.095	.069-.122 (28%)	12.58	5.09	Bluegill
5	0-16	(236%)	.000	.000-.000 (236%)	0.03	0.01	Bowfin
15	0-49	(223%)	.000	.000-.000 (223%)	0.09	0.03	Brown bullhead
3734	3237-4231	(13%)	.169	.139-.198 (17%)	21.02	8.51	Channel catfish
7	0-24	(236%)	.000	.000-.000 (245%)	0.04	0.02	Crappie spp.
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
435	210-659	(52%)	.022	.008-.036 (63%)	2.45	0.99	Largemouth bass
257	158-356	(39%)	.015	.006-.025 (63%)	1.45	0.59	Redear sunfish
			****	NOT RECORDED ****			Spotted gar
			****	NOT RECORDED ****			Warmouth
7584	3397-11772	(55%)	.183	.123-.243 (33%)	42.69	17.28	White crappie
24	0-50	(108%)	.001	.000-.001 (120%)	0.14	0.06	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
8535	7384-9686	(13%)	.360	.304-.417 (16%)	48.04	0.547	All species
36	0-117	(220%)	.002	.000-.005 (223%)	0.20	3.971	Blue catfish
23	0-59	(157%)	.001	.000-.003 (190%)	0.13	10.324	Bigmouth buffalo
			****	NOT RECORDED ****			Black bullhead
369	221-518	(40%)	.011	.006-.017 (49%)	2.08	0.285	Black crappie
412	320-504	(22%)	.018	.013-.022 (28%)	2.32	0.184	Bluegill
0	0-0	(231%)	.000	.000-.000 (236%)	0.00	0.013	Bowfin
12	0-39	(223%)	.000	.000-.000 (223%)	0.07	0.804	Brown bullhead
5660	4788-6532	(15%)	.254	.203-.305 (20%)	31.86	1.516	Channel catfish
2	0-6	(245%)	.000	.000-.000 (245%)	0.01	0.254	Crappie spp.
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
511	210-813	(59%)	.025	.008-.043 (69%)	2.88	1.176	Largemouth bass
96	62-129	(35%)	.005	.002-.008 (56%)	0.54	0.373	Redear sunfish
			****	NOT RECORDED ****			Spotted gar
			****	NOT RECORDED ****			Warmouth
1396	831-1961	(40%)	.044	.028-.060 (36%)	7.86	0.184	White crappie
17	0-35	(110%)	.000	.000-.001 (118%)	0.09	0.694	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
18816	16278-21353	(13%)	.794	.670-.919	(16%)	42.86	1.206	All species
80	0-259	(223%)	.003	.000-.011	(223%)	0.18	8.755	Blue catfish
51	0-130	(157%)	.002	.000-.006	(190%)	0.12	22.761	Bigmouth buffalo
			**** NOT RECORDED ****					Black bullhead
814	487-1141	(40%)	.025	.013-.037	(49%)	1.85	0.629	Black crappie
909	706-1112	(22%)	.039	.028-.050	(28%)	2.07	0.407	Bluegill
0	0-0	(236%)	.000	.000-.000	(236%)	0.00	0.028	Bowfin
27	0-86	(220%)	.000	.000-.001	(220%)	0.06	1.773	Brown bullhead
12478	10555-14401	(15%)	.559	.447-.672	(20%)	28.42	3.342	Channel catfish
4	0-13	(236%)	.000	.000-.000	(236%)	0.01	0.560	Crappie spp.
			**** NOT RECORDED ****					Grass carp
			**** NOT RECORDED ****					Green sunfish
1127	463-1792	(59%)	.056	.017-.094	(69%)	2.57	2.592	Largemouth bass
211	137-285	(35%)	.011	.005-.018	(56%)	0.48	0.822	Redear sunfish
			**** NOT RECORDED ****					Spotted gar
			**** NOT RECORDED ****					Warmouth
3077	1833-4322	(40%)	.098	.063-.133	(36%)	7.01	0.406	White crappie
37	0-78	(110%)	.001	.000-.002	(118%)	0.08	1.529	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
26984	22182-31786	(18%)	.967	.847-1.088	(12%)	151.88	61.47	All species
9	0-29	(220%)	.000	.000-.001	(220%)	0.05	0.02	Blue catfish
2	0-6	(154%)	.000	.000-.000	(164%)	0.01	0.01	Bigmouth buffalo
14	0-36	(161%)	.000	.000-.001	(157%)	0.08	0.03	Black bullhead
1675	1093-2256	(35%)	.052	.031-.074	(40%)	9.43	3.81	Black crappie
7286	5845-8728	(20%)	.304	.237-.372	(22%)	41.01	16.60	Bluegill
73	34-113	(54%)	.003	.000-.006	(85%)	0.41	0.17	Bowfin
17	0-50	(195%)	.000	.000-.000	(186%)	0.10	0.04	Brown bullhead
4219	3674-4764	(13%)	.196	.163-.230	(17%)	23.75	9.61	Channel catfish
7	0-24	(236%)	.000	.000-.000	(245%)	0.04	0.02	Crappie spp.
6	0-20	(236%)	.000	.000-.000	(245%)	0.03	0.01	Grass carp
10	0-28	(179%)	.001	.000-.002	(198%)	0.06	0.02	Green sunfish
3378	2548-4208	(25%)	.120	.090-.150	(25%)	19.01	7.69	Largemouth bass
355	216-494	(39%)	.024	.009-.038	(60%)	2.00	0.81	Redear sunfish
68	4-131	(93%)	.004	.000-.010	(144%)	0.38	0.15	Spotted gar
2	0-6	(163%)	.000	.000-.000	(163%)	0.01	0.01	Warmouth
9796	5472-14121	(44%)	.256	.175-.338	(32%)	55.14	22.31	White crappie
67	12-122	(82%)	.005	.000-.012	(155%)	0.38	0.15	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
12091	10455-13727	(14%)	.509	.396-.622	(22%)	68.05	0.448	All species
36	0-117	(220%)	.002	.000-.005	(223%)	0.20	3.971	Blue catfish
23	0-59	(157%)	.001	.000-.003	(190%)	0.13	10.324	Bigmouth buffalo
4	0-10	(148%)	.000	.000-.000	(151%)	0.02	0.301	Black bullhead
404	253-556	(37%)	.012	.007-.018	(45%)	2.28	0.241	Black crappie
914	745-1084	(19%)	.039	.030-.047	(22%)	5.15	0.125	Bluegill
15	6-23	(58%)	.001	.000-.001	(91%)	0.08	0.201	Bowfin
13	0-40	(207%)	.000	.000-.000	(200%)	0.07	0.757	Brown bullhead
5793	4925-6661	(15%)	.260	.209-.311	(20%)	32.61	1.373	Channel catfish
2	0-6	(245%)	.000	.000-.000	(245%)	0.01	0.254	Crappie spp.
0	0-2	(245%)	.000	.000-.000	(245%)	0.00	0.079	Grass carp
1	0-2	(179%)	.000	.000-.000	(198%)	0.00	0.073	Green sunfish
2532	1907-3156	(25%)	.090	.065-.115	(28%)	14.25	0.750	Largemouth bass
122	84-161	(32%)	.007	.004-.011	(51%)	0.69	0.345	Redear sunfish
632	0-1483	(135%)	.046	.000-.124	(171%)	3.55	9.344	Spotted gar
1	0-3	(164%)	.000	.000-.000	(165%)	0.01	0.396	Warmouth
1565	985-2145	(37%)	.050	.033-.067	(35%)	8.81	0.160	White crappie
33	10-57	(70%)	.002	.000-.004	(112%)	0.19	0.499	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
26655	23049-30262	(14%)	1.122	.873-1.371	(22%)	60.72	0.988	All species
80	0-259	(223%)	.003	.000-.011	(223%)	0.18	8.755	Blue catfish
51	0-130	(157%)	.002	.000-.006	(190%)	0.12	22.761	Bigmouth buffalo
9	0-23	(148%)	.000	.000-.001	(151%)	0.02	0.665	Black bullhead
892	558-1225	(37%)	.027	.015-.039	(45%)	2.03	0.532	Black crappie
2016	1643-2389	(19%)	.085	.066-.104	(22%)	4.59	0.277	Bluegill
32	14-51	(58%)	.001	.000-.002	(91%)	0.07	0.443	Bowfin
29	0-88	(209%)	.000	.000-.001	(200%)	0.06	1.669	Brown bullhead
12772	10857-14686	(15%)	.573	.460-.686	(20%)	29.09	3.027	Channel catfish
4	0-13	(236%)	.000	.000-.000	(236%)	0.01	0.560	Crappie spp.
1	0-4	(245%)	.000	.000-.000	(245%)	0.00	0.175	Grass carp
2	0-5	(179%)	.000	.000-.000	(198%)	0.00	0.160	Green sunfish
5581	4205-6957	(25%)	.198	.143-.253	(28%)	12.71	1.652	Largemouth bass
270	185-355	(32%)	.016	.008-.024	(51%)	0.61	0.761	Redear sunfish
1392	0-3269	(135%)	.101	.000-.274	(171%)	3.17	20.599	Spotted gar
2	0-6	(164%)	.000	.000-.000	(165%)	0.00	0.872	Warmouth
3450	2171-4729	(37%)	.110	.072-.149	(35%)	7.86	0.352	White crappie
73	22-125	(70%)	.004	.000-.009	(112%)	0.17	1.100	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	3.8	3.7-4.0	(5%)	0.5	12.2	671
SHORE	2.9	2.6-3.1	(8%)	0.2	7.2	203
BOAT & SHORE	3.6	3.5-3.7	(4%)	0.2	12.2	874
MILES TRAVELED	29.6	26.6-32.6	(10%)	1	500	1297
SUCCESS RATING (1-10)	3.0	2.9-3.2	(5%)	1	10	1285

*427 samples were from split interviews of completed trips.
63.2% of all 1383 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 22 out of 1383 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	285	364	60	3					1	9
SHORE INTERVIEWS	312	242	68	29	8	1				1

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

557 (40.3%)	ANY	All species
9 (0.7%)	BLC	Black crappie
13 (0.9%)	BLG	Bluegill
4 (0.3%)	CAP	Carp
441 (31.9%)	CCF	Channel catfish
132 (9.5%)	CRP	Crappie spp.
227 (16.4%)	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+
Blue catfish																
HARVEST	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bigmouth buffalo																
HARVEST	1604	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black bullhead																
HARVEST	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1603	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1531	29	18	6	4	9	-	1	2	-	-	-	1	-	-	4
RELEASE	1580	10	4	7	-	1	1	-	-	-	1	-	-	-	-	1
Bluegill																
HARVEST	1409	72	32	17	11	6	8	7	7	13	23	-	-	-	-	-
RELEASE	1337	85	52	27	18	22	9	2	19	2	10	-	4	1	-	17
Bowfin																
HARVEST	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1589	15	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Brown bullhead																
HARVEST	1602	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1603	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	1181	178	96	53	22	27	47	-	1	-	-	-	-	-	-	-
RELEASE	1546	38	15	1	2	-	-	-	-	-	-	-	-	-	2	1
Crappie spp.																
HARVEST	1604	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grass carp																
HARVEST	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1604	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1603	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1540	38	18	6	2	1	-	-	-	-	-	-	-	-	-	-
RELEASE	1215	160	93	84	12	11	6	2	3	1	13	1	1	2	-	1

Table 11 continued. 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+
Redear sunfish																
HARVEST	1550	40	12	1	-	2	-	-	-	-	-	-	-	-	-	-
RELEASE	1590	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Spotted gar																
HARVEST	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1587	13	4	-	1	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1605	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1397	49	28	23	12	14	15	8	6	4	6	3	3	4	4	29
RELEASE	1437	70	20	29	6	16	3	4	3	1	5	1	1	-	-	9
Yellow bullhead																
HARVEST	1599	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1598	5	-	2	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 SHABBONA
304 ACRES
REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
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: 244/693 = 35.2%

NUMBER OF INTERVIEWS: 3048

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	53565	48234-58897	(10%)	176	159-194	(10%)	9%
	HOLIDAY	64275	58125-70425	(10%)	211	191-231	(10%)	11%
	TOTAL	117840	109702-125979	(7%)	387	361-414	(7%)	10%
SHORE	WEEKDAY	21344	18106-24582	(15%)	70	60-81	(15%)	3%
	HOLIDAY	23416	21230-25601	(9%)	77	70-84	(9%)	3%
	TOTAL	44760	40977-48543	(8%)	147	135-160	(8%)	3%
BOAT & SHORE	WEEKDAY	74910	68749-81071	(8%)	246	226-266	(8%)	7%
	HOLIDAY	87691	81164-94217	(7%)	288	267-310	(7%)	9%
	TOTAL	162601	153626-171575	(6%)	534	505-564	(6%)	8%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
18431	14575-22287	(21%)	.107	.022-.192	(79%)	149.66	60.57	All species
50	0-208	(318%)	.001	.000-.004	(318%)	0.40	0.16	Black bullhead
7491	5296-9686	(29%)	.028	.018-.038	(36%)	60.83	24.62	Black crappie
6622	4475-8769	(32%)	.041	.023-.059	(44%)	53.77	21.76	Bluegill
16	0-52	(236%)	.000	.000-.000	(236%)	0.13	0.05	Brown bullhead
			**** NOT RECORDED ****					Carp
2866	1575-4157	(45%)	.015	.008-.022	(46%)	23.27	9.42	Channel catfish
			**** NOT RECORDED ****					Crappie spp.
			**** NOT RECORDED ****					Green sunfish
			**** NOT RECORDED ****					Gizzard shad
117	29-205	(75%)	.000	.000-.001	(75%)	0.95	0.38	Largemouth bass
13	0-40	(213%)	.000	.000-.000	(214%)	0.10	0.04	Muskellunge
			**** NOT RECORDED ****					Striped bass x White Bass
20	0-67	(236%)	.000	.000-.000	(236%)	0.16	0.07	Smallmouth bass
28	0-62	(122%)	.000	.000-.001	(175%)	0.23	0.09	Walleye
799	0-1686	(111%)	.004	.000-.009	(120%)	6.49	2.62	White crappie
411	0-2852	(595%)	.017	.000-.221	(1204%	3.33	1.35	Yellow perch

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

KG HARVESTED	95% CI		KG/HOUR	95% CI		KG/HA	AVE KG	SPECIES
6282	3500-9065	(44%)	.032	.018-.047	(43%)	51.01	0.341	All species
47	0-247	(430%)	.001	.000-.004	(318%)	0.38	0.938	Black bullhead
1517	983-2051	(35%)	.005	.003-.007	(35%)	12.32	0.202	Black crappie
603	399-807	(34%)	.004	.002-.006	(54%)	4.90	0.091	Bluegill
2	0-6	(231%)	.000	.000-.000	(231%)	0.01	0.117	Brown bullhead
			**** NOT RECORDED ****					Carp
3699	939-6459	(75%)	.019	.006-.032	(69%)	30.04	1.291	Channel catfish
			**** NOT RECORDED ****					Crappie spp.
			**** NOT RECORDED ****					Green sunfish
			**** NOT RECORDED ****					Gizzard shad
133	23-243	(83%)	.000	.000-.001	(76%)	1.08	1.137	Largemouth bass
97	0-305	(213%)	.000	.000-.001	(213%)	0.79	7.663	Muskellunge
			**** NOT RECORDED ****					Striped bass x White Bass
6	0-21	(231%)	.000	.000-.000	(231%)	0.05	0.319	Smallmouth bass
20	0-50	(143%)	.000	.000-.001	(181%)	0.17	0.735	Walleye
112	0-226	(103%)	.001	.000-.001	(115%)	0.91	0.140	White crappie
46	0-314	(585%)	.002	.000-.024	(1203%	0.37	0.112	Yellow perch

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

LB HARVESTED	95% CI		LB/HOUR	95% CI		LB/ACRE	AVE LB	SPECIES
13850	7716-19984	(44%)	.072	.041-.103	(43%)	45.52	0.751	All species
103	0-430	(318%)	.002	.000-.010	(430%)	0.34	2.067	Black bullhead
3344	2166-4522	(35%)	.012	.008-.016	(35%)	10.99	0.446	Black crappie
1330	881-1780	(34%)	.008	.004-.013	(54%)	4.37	0.201	Bluegill
4	0-13	(236%)	.000	.000-.000	(231%)	0.01	0.258	Brown bullhead
			**** NOT RECORDED ****					Carp
8155	2070-14239	(75%)	.042	.013-.071	(69%)	26.80	2.845	Channel catfish
			**** NOT RECORDED ****					Crappie spp.
			**** NOT RECORDED ****					Green sunfish
			**** NOT RECORDED ****					Gizzard shad
293	51-535	(83%)	.001	.000-.002	(76%)	0.96	2.506	Largemouth bass
215	0-673	(213%)	.001	.000-.002	(213%)	0.71	16.894	Muskellunge
			**** NOT RECORDED ****					Striped bass x White Bass
14	0-47	(236%)	.000	.000-.000	(236%)	0.05	0.703	Smallmouth bass
45	0-109	(143%)	.000	.000-.001	(181%)	0.15	1.621	Walleye
246	0-499	(103%)	.001	.000-.003	(115%)	0.81	0.308	White crappie
101	0-693	(585%)	.004	.000-.053	(1203%	0.33	0.247	Yellow perch

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
131995	116275-147714	(12%)	.901	.000-3.277	(264%)	1071.83	433.76	All species
467	0-988	(112%)	.003	.000-.009	(157%)	3.79	1.53	Black bullhead
17719	13467-21970	(24%)	.088	.034-.143	(62%)	143.88	58.23	Black crappie
56967	46740-67193	(18%)	.341	.237-.445	(31%)	462.59	187.21	Bluegill
33	0-82	(147%)	.000	.000-.001	(152%)	0.27	0.11	Brown bullhead
7	0-25	(262%)	.000	.000-.001	(283%)	0.06	0.02	Carp
4443	2999-5887	(32%)	.023	.012-.035	(48%)	36.08	14.60	Channel catfish
6	0-29	(430%)	.000	.000-.000	(430%)	0.04	0.02	Crappie spp.
20	0-85	(318%)	.000	.000-.000	(318%)	0.16	0.07	Green sunfish
5	0-23	(318%)	.000	.000-.001	(318%)	0.04	0.02	Gizzard shad
22374	15857-28891	(29%)	.141	.103-.178	(27%)	181.69	73.53	Largemouth bass
729	475-983	(35%)	.003	.002-.004	(37%)	5.92	2.40	Muskellunge
322	0-877	(172%)	.002	.000-.004	(158%)	2.62	1.06	Striped bass x White Bass
1007	370-1644	(63%)	.005	.001-.008	(80%)	8.18	3.31	Smallmouth bass
5422	3554-7290	(34%)	.025	.015-.035	(41%)	44.03	17.82	Walleye
1198	187-2209	(84%)	.006	.001-.012	(89%)	9.73	3.94	White crappie
21276	13985-28567	(34%)	.264	.000-2.518	(854%)	172.76	69.92	Yellow perch

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

KG CAUGHT	95% CI		KG/HOUR	95% CI		KG/HA	AVE KG	SPECIES
21583	18131-25034	(16%)	.130	.096-.163	(26%)	175.26	0.164	All species
87	0-293	(236%)	.001	.000-.005	(300%)	0.71	0.186	Black bullhead
2375	1758-2993	(26%)	.009	.007-.012	(29%)	19.29	0.134	Black crappie
2843	2324-3362	(18%)	.015	.011-.020	(27%)	23.09	0.050	Bluegill
2	0-7	(180%)	.000	.000-.000	(195%)	0.02	0.073	Brown bullhead
12	0-40	(245%)	.001	.000-.002	(269%)	0.09	1.713	Carp
5024	2348-7700	(53%)	.029	.010-.048	(65%)	40.80	1.131	Channel catfish
0	0-1	(318%)	.000	.000-.000	(318%)	0.00	0.059	Crappie spp.
1	0-5	(278%)	.000	.000-.000	(278%)	0.01	0.060	Green sunfish
0	0-1	(430%)	.000	.000-.000	(318%)	0.00	0.037	Gizzard shad
6773	4622-8924	(32%)	.049	.027-.070	(44%)	55.00	0.303	Largemouth bass
1969	1156-2782	(41%)	.007	.004-.010	(42%)	15.99	2.701	Muskellunge
78	0-215	(177%)	.000	.000-.001	(141%)	0.63	0.242	Striped bass x White Bass
238	0-481	(102%)	.001	.000-.001	(87%)	1.93	0.236	Smallmouth bass
1511	901-2122	(40%)	.006	.004-.008	(38%)	12.27	0.279	Walleye
165	27-303	(83%)	.001	.000-.001	(90%)	1.34	0.138	White crappie
502	62-943	(88%)	.010	.000-.108	(957%)	4.08	0.024	Yellow perch

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

LB CAUGHT	95% CI		LB/HOUR	95% CI		LB/ACRE	AVE LB	SPECIES
47582	39973-55191	(16%)	.286	.212-.360	(26%)	156.36	0.360	All species
192	0-645	(236%)	.003	.000-.011	(300%)	0.63	0.411	Black bullhead
5237	3875-6599	(26%)	.020	.015-.026	(29%)	17.21	0.296	Black crappie
6268	5123-7413	(18%)	.034	.025-.044	(27%)	20.60	0.110	Bluegill
5	0-15	(180%)	.000	.000-.000	(195%)	0.02	0.160	Brown bullhead
26	0-88	(245%)	.001	.000-.005	(269%)	0.08	3.776	Carp
11077	5177-16976	(53%)	.064	.022-.105	(65%)	36.40	2.493	Channel catfish
1	0-3	(318%)	.000	.000-.000	(430%)	0.00	0.131	Crappie spp.
3	0-11	(318%)	.000	.000-.000	(278%)	0.01	0.132	Green sunfish
0	0-2	(430%)	.000	.000-.000	(430%)	0.00	0.081	Gizzard shad
14931	10190-19673	(32%)	.107	.060-.154	(44%)	49.07	0.667	Largemouth bass
4341	2548-6134	(41%)	.016	.009-.023	(42%)	14.27	5.955	Muskellunge
172	0-474	(177%)	.001	.000-.003	(141%)	0.56	0.533	Striped bass x White Bass
525	0-1060	(102%)	.002	.000-.003	(87%)	1.73	0.521	Smallmouth bass
3332	1987-4677	(40%)	.013	.008-.018	(38%)	10.95	0.615	Walleye
364	60-668	(83%)	.002	.000-.003	(90%)	1.20	0.304	White crappie
1108	137-2078	(88%)	.023	.000-.238	(957%)	3.64	0.052	Yellow perch

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.6	4.5-4.8	(4%)	0.1	13.3	828
SHORE	2.5	2.1-2.9	(17%)	0.5	6.2	46
BOAT & SHORE	4.5	4.4-4.7	(4%)	0.1	13.3	874
MILES TRAVELED	42.6	40.9-44.2	(4%)	1	1000	1858
SUCCESS RATING (1-10)	3.7	3.6-3.9	(3%)	1	10	1854

*619 samples were from split interviews of completed trips.
37.3% of all 2345 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 2345 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	492	1088	280	62	17	3	1	3		
SHORE INTERVIEWS	152	164	54	19	4		1		2	3

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

1021	(43.5%)	ANY	All species
2	(0.1%)	BLC	Black crappie
74	(3.2%)	BLG	Bluegill
1	(0.0%)	CAT	Unidentified catfish
112	(4.8%)	CCF	Channel catfish
375	(16.0%)	CRP	Crappie spp.
334	(14.2%)	LMB	Largemouth bass
291	(12.4%)	MUE	Muskellunge
12	(0.5%)	SUN	Sunfish spp. excluding Crappie and Black Bass
120	(5.1%)	WAE	Walleye
3	(0.1%)	YEP	Yellow perch

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	1770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1763	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1648	37	29	19	-	7	8	2	6	2	9	-	-	-	-	3
RELEASE	1583	98	26	24	15	7	2	-	4	4	1	-	-	3	-	3
Bluegill																
HARVEST	1707	14	13	12	5	5	-	3	6	-	5	-	-	-	-	-
RELEASE	1407	132	54	54	26	27	12	13	15	-	9	-	2	6	-	13
Brown bullhead																
HARVEST	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	1770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	1710	28	7	9	4	5	7	-	-	-	-	-	-	-	-	-
RELEASE	1706	48	9	1	3	1	2	-	-	-	-	-	-	-	-	-
Crappie spp.																
HARVEST	1770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	1770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1758	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1417	225	67	30	11	8	6	2	1	1	1	1	-	-	-	-
Muskellunge																
HARVEST	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1712	53	5	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass x White bass hybrid (Wiper)																
HARVEST	1770	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1766	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-

Table 11 continued. 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+
Smallmouth bass																
HARVEST	1768	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1757	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	1767	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1648	89	10	14	2	1	2	-	-	-	2	-	-	2	-	-
White crappie																
HARVEST	1745	9	4	8	-	-	-	-	4	-	-	-	-	-	-	-
RELEASE	1760	5	2	-	-	3	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	1737	19	2	6	5	-	1	-	-	-	-	-	-	-	-	-
RELEASE	1500	96	64	27	12	17	26	5	13	2	6	-	2	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 FOX RIVER
SILVER SPRINGS
15 ACRES
REGION 2, DISTRICT 9

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
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: 165/693 = 23.8%

NUMBER OF INTERVIEWS: 298

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	1303	687-1918	(47%)	87	46-128	(47%)	4%
	HOLIDAY	1608	1080-2135	(33%)	107	72-142	(33%)	15%
	TOTAL	2910	2139-3681	(26%)	194	143-245	(26%)	10%
SHORE	WEEKDAY	2648	1622-3674	(39%)	177	108-245	(39%)	4%
	HOLIDAY	5983	4814-7152	(20%)	399	321-477	(20%)	11%
	TOTAL	8631	7152-10110	(17%)	575	477-674	(17%)	9%
BOAT & SHORE	WEEKDAY	3950	2830-5071	(28%)	263	189-338	(28%)	4%
	HOLIDAY	7591	6341-8841	(16%)	506	423-589	(16%)	12%
	TOTAL	11541	9931-13151	(14%)	769	662-877	(14%)	9%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
1138	728-1548	(36%)	.047	.023-.072	(52%)	187.41	75.84	All species
10	0-132	(1271%	.000	.000-.002	(1271%	1.59	0.64	Bluegill
167	60-274	(64%)	.005	.001-.008	(72%)	27.57	11.16	Carp
518	205-831	(60%)	.029	.005-.053	(83%)	85.30	34.52	Channel catfish
30	0-61	(106%)	.001	.000-.002	(111%)	4.90	1.98	Flathead catfish
344	0-738	(115%)	.009	.002-.016	(77%)	56.64	22.92	Freshwater drum
9	0-123	(1271%	.001	.001-.001	(0%)	1.48	0.60	Largemouth bass
			**** NOT RECORDED ****					Northern pike
11	0-45	(318%)	.000	.000-.001	(278%)	1.76	0.71	Shorthead redhorse
			**** NOT RECORDED ****					Smallmouth bass
6	0-18	(218%)	.000	.000-.000	(220%)	0.92	0.37	Walleye
			**** NOT RECORDED ****					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
528	302-754	(43%)	.022	.009-.035	(59%)	86.93	0.464	All species
0	0-3	(1271%	.000	.000-.000	(1271%	0.03	0.021	Bluegill
130	31-229	(76%)	.004	.000-.007	(91%)	21.47	0.779	Carp
225	67-383	(70%)	.014	.001-.027	(89%)	37.00	0.434	Channel catfish
40	0-106	(164%)	.001	.000-.003	(173%)	6.60	1.347	Flathead catfish
121	0-850	(604%)	.003	.000-.006	(110%)	19.91	0.352	Freshwater drum
3	3-3	(0%)	.000	.000-.003	(1271%	0.52	0.351	Largemouth bass
			**** NOT RECORDED ****					Northern pike
4	0-15	(278%)	.000	.000-.000	(318%)	0.65	0.370	Shorthead redhorse
			**** NOT RECORDED ****					Smallmouth bass
5	0-15	(218%)	.000	.000-.000	(220%)	0.75	0.818	Walleye
			**** NOT RECORDED ****					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
1163	665-1662	(43%)	.048	.020-.077	(59%)	77.56	1.023	All species
0	0-6	(1271%	.000	.000-.000	(1271%	0.03	0.046	Bluegill
287	69-506	(76%)	.008	.001-.015	(91%)	19.15	1.716	Carp
495	147-843	(70%)	.031	.003-.059	(89%)	33.01	0.956	Channel catfish
88	0-233	(164%)	.002	.000-.006	(173%)	5.89	2.969	Flathead catfish
266	0-1875	(604%)	.007	.000-.014	(110%)	17.76	0.775	Freshwater drum
7	7-7	(0%)	.000	.000-.000	(0%)	0.46	0.773	Largemouth bass
			**** NOT RECORDED ****					Northern pike
9	0-36	(318%)	.000	.000-.001	(278%)	0.58	0.816	Shorthead redhorse
			**** NOT RECORDED ****					Smallmouth bass
10	0-32	(220%)	.000	.000-.000	(218%)	0.67	1.803	Walleye
			**** NOT RECORDED ****					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
6038	0-13947	(131%)	.281	.086-.476	(69%)	994.60	402.51	All species
83	0-269	(226%)	.005	.000-.014	(167%)	13.61	5.51	Bluegill
396	68-724	(83%)	.022	.000-.163	(646%)	65.30	26.43	Carp
3958	0-11284	(185%)	.179	.000-.370	(106%)	652.09	263.90	Channel catfish
67	8-126	(88%)	.003	.000-.006	(130%)	11.06	4.48	Flathead catfish
776	372-1181	(52%)	.027	.011-.044	(61%)	127.90	51.76	Freshwater drum
18	0-73	(304%)	.001	.000-.010	(908%)	2.97	1.20	Largemouth bass
10	0-35	(257%)	.000	.000-.001	(278%)	1.62	0.65	Northern pike
107	0-1091	(924%)	.011	.000-.146	(1219%	17.55	7.10	Shorthead redhorse
376	129-623	(66%)	.022	.005-.039	(76%)	61.89	25.05	Smallmouth bass
150	0-346	(131%)	.006	.000-.016	(165%)	24.69	9.99	Walleye
20	0-274	(1271%	.000	.000-.000	(0%)	3.30	1.34	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
1308	902-1714	(31%)	.067	.038-.096	(44%)	215.44	0.217	All species
7	0-28	(278%)	.000	.000-.001	(185%)	1.22	0.090	Bluegill
259	116-401	(55%)	.012	.000-.074	(510%)	42.59	0.652	Carp
440	193-687	(56%)	.026	.010-.043	(63%)	72.52	0.111	Channel catfish
102	1-202	(99%)	.004	.000-.015	(240%)	16.72	1.512	Flathead catfish
266	56-476	(79%)	.010	.002-.017	(76%)	43.88	0.343	Freshwater drum
7	0-67	(900%)	.000	.000-.004	(903%)	1.10	0.370	Largemouth bass
0	0-0	(257%)	.000	.000-.000	(257%)	0.01	0.006	Northern pike
27	0-294	(980%)	.003	.000-.041	(1228%	4.49	0.256	Shorthead redhorse
116	32-200	(72%)	.009	.001-.016	(84%)	19.14	0.309	Smallmouth bass
62	0-135	(118%)	.002	.000-.006	(164%)	10.24	0.415	Walleye
21	21-21	(0%)	.000	.000-.002	(1271%	3.52	1.067	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
2883	1989-3778	(31%)	.148	.084-.213	(44%)	192.21	0.478	All species
16	0-62	(278%)	.001	.000-.002	(185%)	1.09	0.198	Bluegill
570	256-884	(55%)	.027	.000-.164	(510%)	38.00	1.438	Carp
971	426-1515	(56%)	.058	.021-.094	(63%)	64.71	0.245	Channel catfish
224	3-445	(99%)	.009	.000-.032	(240%)	14.92	3.333	Flathead catfish
587	124-1050	(79%)	.022	.005-.038	(76%)	39.15	0.756	Freshwater drum
15	0-147	(900%)	.001	.000-.008	(903%)	0.98	0.817	Largemouth bass
0	0-0	(257%)	.000	.000-.000	(257%)	0.01	0.013	Northern pike
60	0-649	(980%)	.007	.000-.089	(1228%	4.00	0.564	Shorthead redhorse
256	71-442	(72%)	.019	.003-.035	(84%)	17.07	0.682	Smallmouth bass
137	0-298	(118%)	.005	.000-.012	(164%)	9.14	0.915	Walleye
47	47-47	(0%)	.000	.000-.004	(1271%	3.14	2.352	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	2.7-3.8	(17%)	0.5	9.7	41
SHORE	2.2	1.9-2.4	(11%)	0.5	7.7	109
BOAT & SHORE	2.5	2.2-2.7	(10%)	0.5	9.7	150
MILES TRAVELED	25.8	23.0-28.6	(11%)	1	120	228
SUCCESS RATING (1-10)	3.3	3.0-3.6	(9%)	1	10	228

*48 samples were from split interviews of completed trips.
59.8% of all 251 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 251 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	13	26	9	1						
SHORE INTERVIEWS	83	79	29	8	2	1				

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

89	(35.5%)	ANY	All species
2	(0.8%)	BLG	Bluegill
2	(0.8%)	BSS	Black bass spp.
9	(3.6%)	CAP	Carp
81	(32.3%)	CAT	Unidentified catfish
4	(1.6%)	CCF	Channel catfish
2	(0.8%)	LMB	Largemouth bass
25	(10.0%)	MUE	Muskellunge
28	(11.2%)	SMB	Smallmouth bass
9	(3.6%)	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+
Bluegill																
HARVEST	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	285	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	273	11	2	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	270	15	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	256	11	8	5	3	4	-	-	-	-	-	-	-	-	-	-
RELEASE	234	34	8	2	-	2	-	-	1	2	-	2	-	-	-	2
Flathead catfish																
HARVEST	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	282	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	278	4	2	-	1	-	-	-	2	-	-	-	-	-	-	-
RELEASE	268	14	4	1	-	-	-	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	285	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shorthead redhorse																
HARVEST	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	262	17	6	2	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	286	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	274	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	287	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	285	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 FOX RIVER
YORKVILLE DAM
10 ACRES
REGION 2, DISTRICT 9

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
Year periods stratified.
Day types (weekday vs. weekend/holiday) stratified.
Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 167/693 = 24.1%

NUMBER OF INTERVIEWS: 631

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

FISHING MODE	DAYTYPE	ANGLER-HOURS	95% CI		HOURS/ACRE	95% CI		% EFF
BOAT & SHORE	WEEKDAY	10452	8832-12071	(15%)	1061	897-1225	(15%)	6%
	HOLIDAY	15506	13933-17079	(10%)	1574	1415-1734	(10%)	10%
	TOTAL	25958	23800-28116	(8%)	2635	2416-2854	(8%)	8%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
8373	5188-11557	(38%)	.163	.102-.224	(37%)	2100.35	850.00	All species
20	0-99	(390%)	.000	.000-.002	(392%)	5.07	2.05	Black crappie
1784	0-3791	(112%)	.031	.003-.060	(90%)	447.65	181.16	Bluegill
211	68-354	(68%)	.011	.000-.027	(138%)	52.92	21.42	Carp
5004	2805-7203	(44%)	.085	.043-.126	(49%)	1255.31	508.02	Channel catfish
235	62-408	(73%)	.004	.001-.007	(78%)	59.02	23.89	Flathead catfish
828	143-1513	(83%)	.019	.003-.034	(83%)	207.69	84.05	Freshwater drum
			**** NOT RECORDED ****					Highfin carpsucker
8	0-34	(318%)	.000	.000-.001	(318%)	2.05	0.83	Largemouth bass
6	0-82	(1271%	.001	.000-.011	(1271%	1.51	0.61	Muskellunge
			**** NOT RECORDED ****					Rock bass
84	0-225	(168%)	.002	.000-.006	(263%)	21.12	8.55	Smallmouth bass
122	0-380	(210%)	.009	.000-.100	(1074%	30.72	12.43	Walleye
			**** NOT RECORDED ****					Warmouth
46	0-97	(110%)	.001	.000-.002	(111%)	11.60	4.69	White bass
			**** NOT RECORDED ****					White crappie
17	0-41	(138%)	.001	.000-.002	(335%)	4.32	1.75	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
2171	1420-2922	(35%)	.048	.029-.067	(40%)	544.68	0.259	All species
3	0-12	(364%)	.000	.000-.000	(367%)	0.67	0.131	Black crappie
130	0-311	(138%)	.002	.000-.004	(114%)	32.72	0.073	Bluegill
177	49-305	(72%)	.006	.000-.012	(95%)	44.43	0.840	Carp
1231	638-1824	(48%)	.021	.011-.031	(47%)	308.88	0.246	Channel catfish
114	0-251	(120%)	.002	.000-.004	(100%)	28.65	0.485	Flathead catfish
352	144-560	(59%)	.007	.002-.013	(76%)	88.31	0.425	Freshwater drum
			**** NOT RECORDED ****					Highfin carpsucker
2	0-8	(278%)	.000	.000-.000	(318%)	0.51	0.248	Largemouth bass
29	29-29	(0%)	.004	.004-.004	(0%)	7.33	4.873	Muskellunge
			**** NOT RECORDED ****					Rock bass
36	0-132	(269%)	.001	.000-.003	(297%)	8.99	0.425	Smallmouth bass
80	0-176	(121%)	.004	.000-.045	(974%)	20.05	0.653	Walleye
			**** NOT RECORDED ****					Warmouth
13	0-27	(110%)	.000	.000-.001	(125%)	3.21	0.277	White bass
			**** NOT RECORDED ****					White crappie
4	0-12	(214%)	.000	.000-.001	(368%)	0.94	0.218	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
4787	3131-6442	(35%)	.106	.064-.148	(40%)	485.96	0.572	All species
6	0-27	(364%)	.000	.000-.001	(367%)	0.59	0.289	Black crappie
288	0-685	(138%)	.004	.000-.009	(114%)	29.19	0.161	Bluegill
390	109-672	(72%)	.013	.001-.026	(95%)	39.64	1.851	Carp
2714	1407-4022	(48%)	.047	.025-.069	(47%)	275.58	0.542	Channel catfish
252	0-553	(120%)	.004	.000-.008	(100%)	25.56	1.070	Flathead catfish
776	317-1235	(59%)	.016	.004-.028	(76%)	78.79	0.937	Freshwater drum
			**** NOT RECORDED ****					Highfin carpsucker
4	0-19	(318%)	.000	.000-.000	(278%)	0.45	0.548	Largemouth bass
64	0-883	(1271%	.009	.000-.121	(1271%	6.54	10.742	Muskellunge
			**** NOT RECORDED ****					Rock bass
79	0-291	(269%)	.002	.000-.006	(297%)	8.02	0.938	Smallmouth bass
176	0-389	(121%)	.009	.000-.098	(974%)	17.89	1.439	Walleye
			**** NOT RECORDED ****					Warmouth
28	0-59	(110%)	.001	.000-.002	(125%)	2.87	0.610	White bass
			**** NOT RECORDED ****					White crappie
8	0-26	(214%)	.000	.000-.002	(368%)	0.84	0.482	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
25832	20370-31293	(21%)	.945	.705-1.186	(25%)	6480.18	2622.49	All species
63	0-137	(116%)	.002	.000-.005	(147%)	15.87	6.42	Black crappie
3544	1419-5669	(60%)	.111	.006-.216	(95%)	889.01	359.78	Bluegill
330	173-488	(48%)	.015	.000-.031	(103%)	82.87	33.54	Carp
10464	6771-14158	(35%)	.250	.168-.332	(33%)	2625.09	1062.36	Channel catfish
381	187-574	(51%)	.010	.004-.016	(61%)	95.55	38.67	Flathead catfish
1494	795-2193	(47%)	.044	.027-.061	(39%)	374.88	151.71	Freshwater drum
4	0-15	(278%)	.000	.000-.001	(278%)	1.00	0.41	Highfin carpsucker
721	0-2118	(194%)	.030	.000-.076	(155%)	180.83	73.18	Largemouth bass
12	0-164	(1271%	.002	.000-.023	(1271%	3.01	1.22	Muskellunge
15	0-34	(127%)	.000	.000-.001	(129%)	3.77	1.53	Rock bass
4819	3011-6626	(38%)	.232	.148-.316	(36%)	1208.79	489.19	Smallmouth bass
3435	1397-5474	(59%)	.219	.000-1.115	(409%)	861.75	348.74	Walleye
28	0-146	(430%)	.005	.000-.028	(430%)	6.90	2.79	Warmouth
438	103-774	(77%)	.023	.000-.062	(177%)	109.91	44.48	White bass
8	0-34	(318%)	.000	.000-.001	(318%)	2.05	0.83	White crappie
57	12-102	(79%)	.002	.000-.005	(171%)	14.26	5.77	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
6413	5177-7650	(19%)	.249	.184-.314	(26%)	1608.80	0.248	All species
5	0-14	(169%)	.000	.000-.000	(124%)	1.31	0.083	Black crappie
196	17-375	(91%)	.006	.000-.012	(117%)	49.29	0.055	Bluegill
283	103-463	(64%)	.010	.003-.017	(72%)	71.00	0.857	Carp
2018	1350-2686	(33%)	.045	.030-.061	(35%)	506.30	0.193	Channel catfish
211	65-356	(69%)	.008	.000-.018	(116%)	52.83	0.553	Flathead catfish
627	377-876	(40%)	.022	.008-.036	(63%)	157.28	0.420	Freshwater drum
2	0-7	(318%)	.000	.000-.001	(318%)	0.45	0.444	Highfin carpsucker
80	25-135	(68%)	.007	.000-.063	(805%)	20.16	0.111	Largemouth bass
54	0-742	(1271%	.007	.000-.102	(1271%	13.58	4.511	Muskellunge
3	0-8	(165%)	.000	.000-.000	(158%)	0.71	0.188	Rock bass
1926	1233-2619	(36%)	.084	.047-.122	(45%)	483.19	0.400	Smallmouth bass
947	459-1435	(51%)	.056	.000-.295	(427%)	237.58	0.276	Walleye
6	0-33	(430%)	.001	.000-.005	(318%)	1.57	0.228	Warmouth
43	14-71	(66%)	.002	.000-.003	(77%)	10.69	0.097	White bass
1	0-2	(318%)	.000	.000-.000	(318%)	0.14	0.070	White crappie
11	0-24	(123%)	.000	.000-.001	(212%)	2.72	0.191	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
14138	11413-16864	(19%)	.550	.407-.693	(26%)	1435.37	0.547	All species
12	0-31	(169%)	.000	.000-.001	(124%)	1.17	0.182	Black crappie
433	39-828	(91%)	.012	.000-.027	(117%)	43.97	0.122	Bluegill
624	227-1021	(64%)	.022	.006-.038	(72%)	63.34	1.889	Carp
4449	2977-5922	(33%)	.100	.065-.135	(35%)	451.72	0.425	Channel catfish
464	144-785	(69%)	.019	.000-.040	(116%)	47.13	1.219	Flathead catfish
1382	832-1932	(40%)	.048	.018-.078	(63%)	140.33	0.925	Freshwater drum
4	0-15	(278%)	.000	.000-.001	(278%)	0.40	0.979	Highfin carpsucker
177	56-298	(68%)	.015	.000-.138	(805%)	17.98	0.246	Largemouth bass
119	119-119	(0%)	.016	.000-.225	(1271%	12.12	9.946	Muskellunge
6	0-17	(165%)	.000	.000-.000	(158%)	0.63	0.415	Rock bass
4246	2718-5774	(36%)	.185	.103-.268	(45%)	431.10	0.881	Smallmouth bass
2088	1013-3163	(51%)	.123	.000-.651	(427%)	211.97	0.608	Walleye
14	0-58	(318%)	.003	.000-.011	(318%)	1.40	0.502	Warmouth
94	32-156	(66%)	.004	.001-.007	(77%)	9.54	0.214	White bass
1	0-5	(278%)	.000	.000-.000	(278%)	0.13	0.155	White crappie
24	0-53	(123%)	.001	.000-.003	(212%)	2.43	0.421	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	2.4	0.1-4.6	(94%)	0.5	5.3	5
SHORE	2.6	2.4-2.8	(8%)	0.2	12.2	366
BOAT & SHORE	2.6	2.4-2.8	(8%)	0.2	12.2	371
MILES TRAVELED	31.0	24.9-37.2	(20%)	1	1100	480
SUCCESS RATING (1-10)	4.2	3.9-4.4	(6%)	1	10	481

*122 samples were from split interviews of completed trips.
73.6% of all 504 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 504 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	1	4								
SHORE INTERVIEWS	277	129	58	19	8	4	3		1	

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

129	(25.6%)	ANY	All species
14	(2.8%)	BLG	Bluegill
2	(0.4%)	BSS	Black bass spp.
6	(1.2%)	CAP	Carp
140	(27.8%)	CAT	Unidentified catfish
4	(0.8%)	FCF	Flathead catfish
1	(0.2%)	FRD	Freshwater drum
1	(0.2%)	LMB	Largemouth bass
19	(3.8%)	MUE	Muskellunge
110	(21.8%)	SMB	Smallmouth bass
78	(15.5%)	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 crappie																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	605	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	587	7	1	2	9	-	-	-	-	-	-	-	-	-	-	1
RELEASE	554	35	8	5	-	-	-	-	1	1	-	-	1	-	-	2
Carp																
HARVEST	590	15	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	594	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	525	36	10	5	8	3	4	4	6	2	1	-	2	-	-	1
RELEASE	491	62	21	11	2	6	3	5	1	-	1	-	1	1	-	2
Flathead catfish																
HARVEST	593	13	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	600	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	583	12	5	3	3	-	-	-	-	-	-	-	-	-	1	-
RELEASE	575	26	5	1	-	-	-	-	-	-	-	-	-	-	-	-
Highfin carpsucker																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	586	17	2	-	1	-	-	-	-	-	1	-	-	-	-	-
Muskellunge																
HARVEST	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	604	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	603	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	501	44	24	14	3	6	1	3	3	3	2	-	-	3	-	-

Table 11 continued. 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	594	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	525	55	7	8	3	2	-	4	1	-	-	-	-	-	-	2
Warmouth																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	606	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	604	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	595	10	2	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	607	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	605	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	604	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY
CENTER FOR AQUATIC ECOLOGY
2002 CREEL SURVEY RESULTS

2002 KASKASKIA RIVER
ATHENS TO EVANSVILLE
924 ACRES
REGION 4, DISTRICT 17

STRATIFICATION SUMMARY:

Day creel only.
Results cover 03/15/2002 through 10/31/2002
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: 485/693 = 70.0%

NUMBER OF INTERVIEWS: 1259

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	22358	16931-27785	(24%)	24	18-30	(24%)	7%
	HOLIDAY	17347	14349-20345	(17%)	19	16-22	(17%)	17%
	TOTAL	39705	33505-45905	(16%)	43	36-50	(16%)	11%
SHORE	WEEKDAY	746	398-1095	(47%)	1	0-1	(47%)	8%
	HOLIDAY	793	470-1116	(41%)	1	1-1	(41%)	15%
	TOTAL	1539	1064-2014	(31%)	2	1-2	(31%)	11%
BOAT & SHORE	WEEKDAY	23104	17666-28542	(24%)	25	19-31	(24%)	7%
	HOLIDAY	18140	15125-21156	(17%)	20	16-23	(17%)	17%
	TOTAL	41244	35026-47463	(15%)	45	38-51	(15%)	11%

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

# HARVESTED	95% CI		#/HOUR	95% CI		#/HA	#/ACRE	SPECIES
12848	9223-16472	(28%)	.135	.102-.169	(25%)	34.37	13.91	All species
27	0-98	(257%)	.000	.000-.001	(257%)	0.07	0.03	Blue catfish
35	0-84	(143%)	.001	.000-.001	(144%)	0.09	0.04	Bighead carp
532	0-1120	(111%)	.007	.000-.015	(113%)	1.42	0.58	Black crappie
667	88-1246	(87%)	.011	.000-.028	(159%)	1.79	0.72	Bluegill
			**** NOT RECORDED ****					Bowfin
4	0-11	(206%)	.000	.000-.000	(206%)	0.01	0.00	Unidentified buffalo
25	0-55	(124%)	.001	.000-.002	(129%)	0.07	0.03	Carp
7366	5150-9582	(30%)	.077	.053-.101	(31%)	19.71	7.98	Channel catfish
147	59-235	(60%)	.002	.000-.003	(86%)	0.39	0.16	Flathead catfish
78	15-140	(81%)	.000	.000-.001	(82%)	0.21	0.08	Freshwater drum
			**** NOT RECORDED ****					Gizzard shad
14	0-34	(148%)	.000	.000-.000	(185%)	0.04	0.01	Largemouth bass
			**** NOT RECORDED ****					Shortnose gar
			**** NOT RECORDED ****					Warmouth
827	315-1338	(62%)	.005	.002-.008	(59%)	2.21	0.89	White bass
3128	1631-4625	(48%)	.032	.015-.050	(55%)	8.37	3.39	White crappie
			**** NOT RECORDED ****					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
7453	5347-9560	(28%)	.067	.055-.079	(18%)	19.94	0.580	All species
49	0-176	(257%)	.000	.000-.002	(245%)	0.13	1.798	Blue catfish
			**** NOT RECORDED ****					Bighead carp
185	0-425	(130%)	.002	.000-.006	(129%)	0.49	0.348	Black crappie
65	8-122	(87%)	.001	.000-.002	(133%)	0.17	0.098	Bluegill
			**** NOT RECORDED ****					Bowfin
			**** NOT RECORDED ****					Unidentified buffalo
34	0-81	(141%)	.001	.000-.002	(129%)	0.09	1.373	Carp
5601	3858-7344	(31%)	.049	.039-.059	(20%)	14.99	0.760	Channel catfish
422	110-734	(74%)	.003	.001-.006	(73%)	1.13	2.872	Flathead catfish
127	14-240	(89%)	.001	.000-.002	(108%)	0.34	1.643	Freshwater drum
			**** NOT RECORDED ****					Gizzard shad
21	0-56	(167%)	.000	.000-.000	(206%)	0.06	1.537	Largemouth bass
			**** NOT RECORDED ****					Shortnose gar
			**** NOT RECORDED ****					Warmouth
210	100-320	(52%)	.001	.001-.002	(57%)	0.56	0.254	White bass
739	402-1076	(46%)	.008	.004-.012	(56%)	1.98	0.236	White crappie
			**** NOT RECORDED ****					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
16432	11787-21077	(28%)	.148	.121-.175	(18%)	17.79	1.279	All species
109	0-388	(257%)	.001	.000-.004	(245%)	0.12	3.965	Blue catfish
			**** NOT RECORDED ****					Bighead carp
407	0-936	(130%)	.005	.000-.012	(129%)	0.44	0.766	Black crappie
144	18-269	(87%)	.002	.000-.004	(133%)	0.16	0.215	Bluegill
			**** NOT RECORDED ****					Bowfin
			**** NOT RECORDED ****					Unidentified buffalo
74	0-179	(141%)	.002	.000-.005	(129%)	0.08	3.026	Carp
12348	8507-16190	(31%)	.107	.085-.129	(20%)	13.37	1.676	Channel catfish
930	241-1618	(74%)	.007	.002-.013	(73%)	1.01	6.333	Flathead catfish
281	32-530	(89%)	.002	.000-.005	(108%)	0.30	3.621	Freshwater drum
			**** NOT RECORDED ****					Gizzard shad
47	0-124	(167%)	.000	.000-.001	(206%)	0.05	3.389	Largemouth bass
			**** NOT RECORDED ****					Shortnose gar
			**** NOT RECORDED ****					Warmouth
463	221-705	(52%)	.003	.001-.005	(57%)	0.50	0.561	White bass
1629	886-2372	(46%)	.018	.008-.028	(56%)	1.76	0.521	White crappie
			**** NOT RECORDED ****					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
30972	23672-38272	(24%)	.283	.234-.332	(17%)	82.86	33.53	All species
34	0-104	(201%)	.000	.000-.001	(183%)	0.09	0.04	Blue catfish
51	0-110	(115%)	.001	.000-.001	(136%)	0.14	0.06	Bighead carp
770	2-1538	(100%)	.012	.001-.023	(93%)	2.06	0.83	Black crappie
1986	977-2994	(51%)	.029	.008-.050	(72%)	5.31	2.15	Bluegill
33	6-59	(80%)	.000	.000-.000	(84%)	0.09	0.04	Bowfin
4	0-11	(206%)	.000	.000-.000	(206%)	0.01	0.00	Unidentified buffalo
36	4-69	(89%)	.001	.000-.002	(106%)	0.10	0.04	Carp
12110	8512-15708	(30%)	.128	.096-.161	(25%)	32.40	13.11	Channel catfish
147	59-235	(60%)	.002	.000-.003	(86%)	0.39	0.16	Flathead catfish
1507	1123-1892	(25%)	.014	.008-.021	(43%)	4.03	1.63	Freshwater drum
2	0-6	(209%)	.000	.000-.001	(209%)	0.01	0.00	Gizzard shad
4954	3596-6313	(27%)	.024	.018-.030	(26%)	13.25	5.36	Largemouth bass
94	25-163	(73%)	.001	.000-.002	(83%)	0.25	0.10	Shortnose gar
3	0-9	(213%)	.000	.000-.000	(212%)	0.01	0.00	Warmouth
2589	1702-3476	(34%)	.016	.011-.022	(33%)	6.93	2.80	White bass
6643	3020-10267	(55%)	.055	.030-.079	(44%)	17.77	7.19	White crappie
8	0-25	(206%)	.000	.000-.000	(206%)	0.02	0.01	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
11968	9383-14553	(22%)	.097	.083-.111	(15%)	32.02	0.386	All species
53	0-175	(227%)	.001	.000-.002	(219%)	0.14	1.550	Blue catfish
			**** NOT RECORDED ****					Bighead carp
197	0-445	(126%)	.003	.000-.006	(121%)	0.53	0.256	Black crappie
131	53-210	(59%)	.002	.000-.003	(76%)	0.35	0.066	Bluegill
6	1-11	(78%)	.000	.000-.000	(80%)	0.02	0.187	Bowfin
			**** NOT RECORDED ****					Unidentified buffalo
53	1-105	(98%)	.001	.000-.002	(103%)	0.14	1.456	Carp
6210	4277-8143	(31%)	.055	.044-.066	(20%)	16.62	0.513	Channel catfish
422	110-734	(74%)	.003	.001-.006	(73%)	1.13	2.872	Flathead catfish
1174	727-1621	(38%)	.010	.005-.014	(46%)	3.14	0.779	Freshwater drum
0	0-0	(209%)	.000	.000-.000	(209%)	0.00	0.037	Gizzard shad
2219	1524-2914	(31%)	.010	.007-.013	(28%)	5.94	0.448	Largemouth bass
66	10-122	(85%)	.001	.000-.001	(85%)	0.18	0.702	Shortnose gar
0	0-1	(213%)	.000	.000-.000	(213%)	0.00	0.063	Warmouth
497	326-668	(34%)	.003	.002-.004	(36%)	1.33	0.192	White bass
938	491-1384	(48%)	.009	.004-.014	(52%)	2.51	0.141	White crappie
0	0-1	(206%)	.000	.000-.000	(206%)	0.00	0.046	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
26385	20686-32084	(22%)	.214	.182-.246	(15%)	28.57	0.852	All species
118	0-385	(227%)	.001	.000-.004	(219%)	0.13	3.417	Blue catfish
			****	NOT RECORDED	****			Bighead carp
435	0-982	(126%)	.006	.000-.013	(121%)	0.47	0.565	Black crappie
290	118-462	(59%)	.004	.001-.007	(76%)	0.31	0.146	Bluegill
14	3-24	(78%)	.000	.000-.000	(80%)	0.01	0.411	Bowfin
			****	NOT RECORDED	****			Unidentified buffalo
117	3-231	(98%)	.003	.000-.005	(103%)	0.13	3.211	Carp
13691	9430-17953	(31%)	.121	.097-.144	(20%)	14.82	1.131	Channel catfish
930	241-1618	(74%)	.007	.002-.013	(73%)	1.01	6.333	Flathead catfish
2588	1602-3574	(38%)	.022	.012-.032	(46%)	2.80	1.717	Freshwater drum
0	0-0	(209%)	.000	.000-.000	(209%)	0.00	0.081	Gizzard shad
4893	3360-6425	(31%)	.022	.016-.028	(28%)	5.30	0.988	Largemouth bass
145	22-269	(85%)	.001	.000-.002	(85%)	0.16	1.549	Shortnose gar
0	0-1	(213%)	.000	.000-.000	(212%)	0.00	0.140	Warmouth
1096	718-1474	(34%)	.007	.004-.009	(36%)	1.19	0.423	White bass
2067	1083-3051	(48%)	.020	.010-.031	(52%)	2.24	0.311	White crappie
1	0-3	(206%)	.000	.000-.000	(206%)	0.00	0.100	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	4.1	3.9-4.3	(5%)	0.5	9.5	329
SHORE	1.1	1.1-1.1	(0%)	0.2	3.0	10
BOAT & SHORE	4.0	3.8-4.2	(6%)	0.2	9.5	339
MILES TRAVELED	28.7	27.3-30.2	(5%)	1	500	927
SUCCESS RATING (1-10)	3.2	3.0-3.4	(5%)	1	10	927

*192 samples were from split interviews of completed trips.
31.9% of all 1062 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1062 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	267	670	42	11						
SHORE INTERVIEWS	21	33	12	4	2					

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

168 (15.8%)	ANY	All species
3 (0.3%)	BLG	Bluegill
1 (0.1%)	CAP	Carp
375 (35.3%)	CAT	Unidentified catfish
4 (0.4%)	CCF	Channel catfish
131 (12.3%)	CRP	Crappie spp.
378 (35.6%)	LMB	Largemouth bass
2 (0.2%)	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+
Blue catfish																
HARVEST	583	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bighead carp																
HARVEST	584	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	582	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	579	2	1	-	-	-	3	1	-	-	-	-	-	-	-	-
RELEASE	584	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	579	-	1	2	-	-	-	-	2	-	-	-	-	-	-	2
RELEASE	568	7	2	4	-	-	3	-	-	-	2	-	-	-	-	-
Bowfin																
HARVEST	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	580	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	585	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	456	23	36	22	17	15	4	8	4	1	-	-	-	-	-	-
RELEASE	504	35	17	15	3	9	3	-	-	-	-	-	-	-	-	-
Flathead catfish																
HARVEST	570	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	582	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	513	45	21	5	2	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	584	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	585	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	423	102	25	26	3	3	2	-	-	-	-	1	-	-	1	-
Shortnose gar																
HARVEST	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	578	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11 continued. 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	573	7	4	-	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	549	23	9	2	1	2	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	546	9	8	6	2	1	2	-	4	-	3	-	4	1	-	-
RELEASE	529	16	12	9	3	7	3	-	2	-	2	-	-	-	-	3
Yellow bass																
HARVEST	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	584	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table B1. Angler Effort and Angler Effort per Acre for all 2002 Lakes and Streams.

Lake/Section	*Angler Hours*	*Angler Hours/Acre*
Shabbona	162601	534
East Fork	64383	69
Kaskaskia River	41244	45
Pistakee	33937	20
Fox River Yorkville Dam (S1)	25958	2635
Mermet	24146	55
Dawson	20510	139
Devil's Kitchen	18928	27
Argyle	14236	154
Fox River Silver Spring (S2)	11541	769
Petite	7760	39

Table B2. Estimated harvest for all species for all 2002 Lakes and Streams.

Lake/Section	*# Fish Harvested*	*Pounds Harvested*
East Fork	111909	30576
Devil's Kitchen	18668	8893
Shabbona	18431	13850
Pistakee	17435	12490
Mermet	15603	18816
Kaskaskia River	12848	16432
Fox River Yorkville Dam (S1)	8373	4787
Dawson	7354	4695
Argyle	5188	3491
Petite	4216	1833
Fox River Silver Spring (S2)	1138	1163

Table B3. Catch Rates (#fish per angler-hour) for largemouth bass, bluegill, and channel catfish for all 2002 Lakes.

Lake/Section	*Largemouth Bass*	*Bluegill*	*Channel Catfish*
East Fork	0.360	1.033	0.011
Devil's Kitchen	0.312	0.657	###
Shabbona	0.141	0.341	0.023
Argyle	0.140	0.499	0.081
Mermet	0.120	0.304	0.196
Dawson	0.094	0.188	0.041
Pistakee	0.052	0.151	0.081
Petite	0.044	0.422	0.067

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

Table B4. Catch Rates (#fish per angler-hour) for smallmouth bass and channel catfish for all 2002 Streams.

Lake/Section	*Smallmouth Bass*	*Channel Catfish*
Fox River Silver Spring (S2)	0.022	***
Fox River Yorkville Dam (S1)	0.232	0.250
Kaskaskia River	###	0.128

(*** = Too few samples collected for accurate estimation)
(### = Species did not appear in the creel)

FIGURE B1. Largemouth Bass CPUE (Catch per Angler Hour).

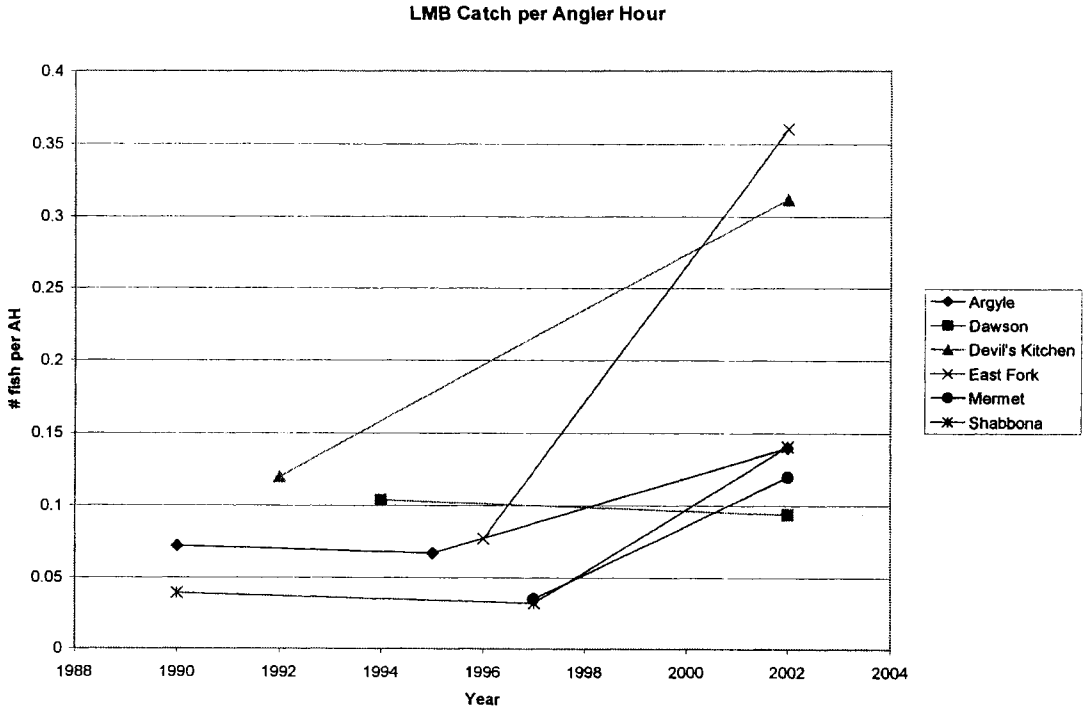

FIGURE B2. Largemouth Bass Average Weight (pounds).

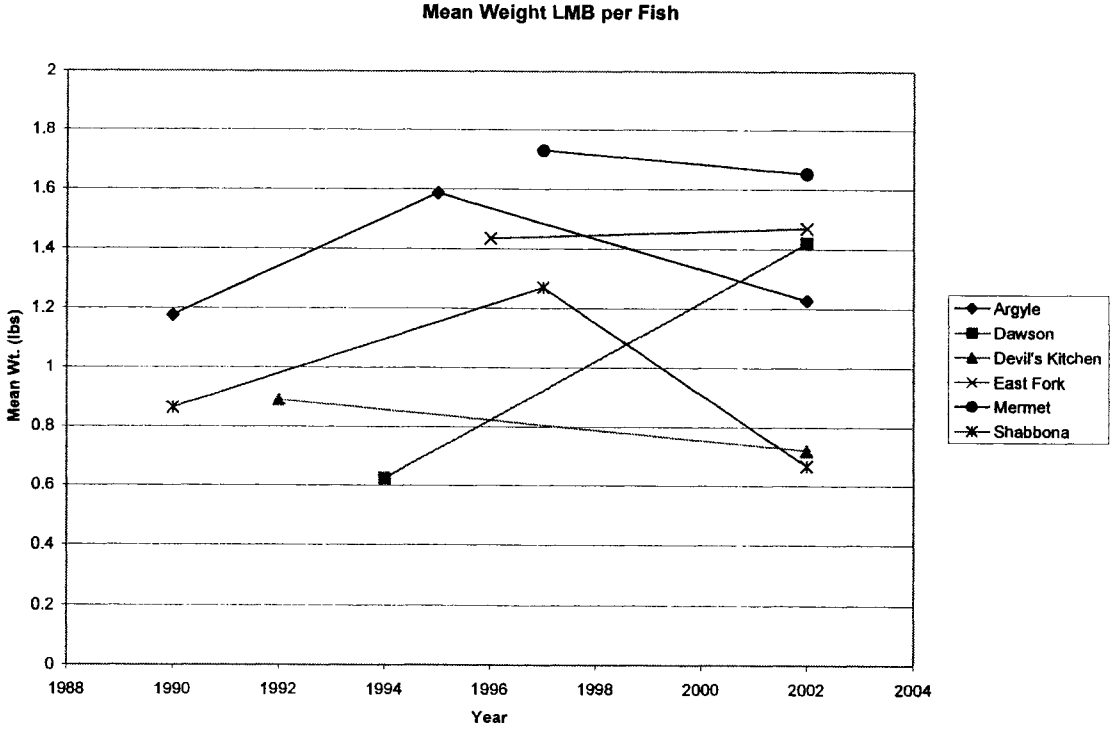

FIGURE B3. Channel Catfish CPUE (Catch per Angler Hour).

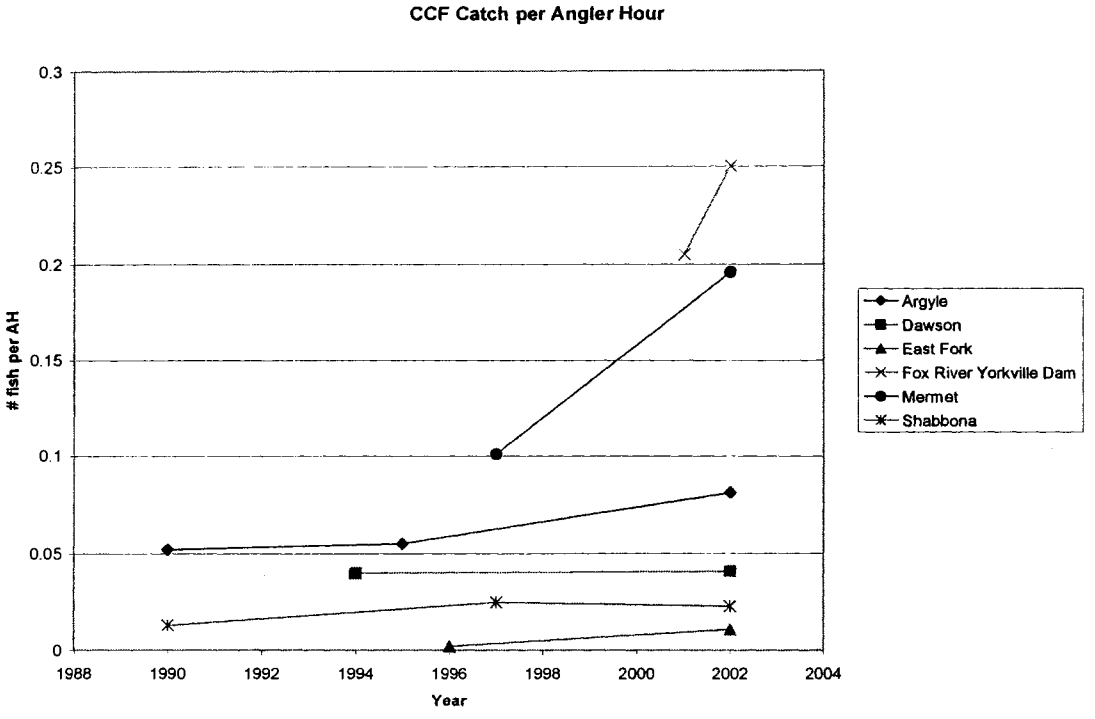

FIGURE B4. Channel Catfish Average Weight (pounds).

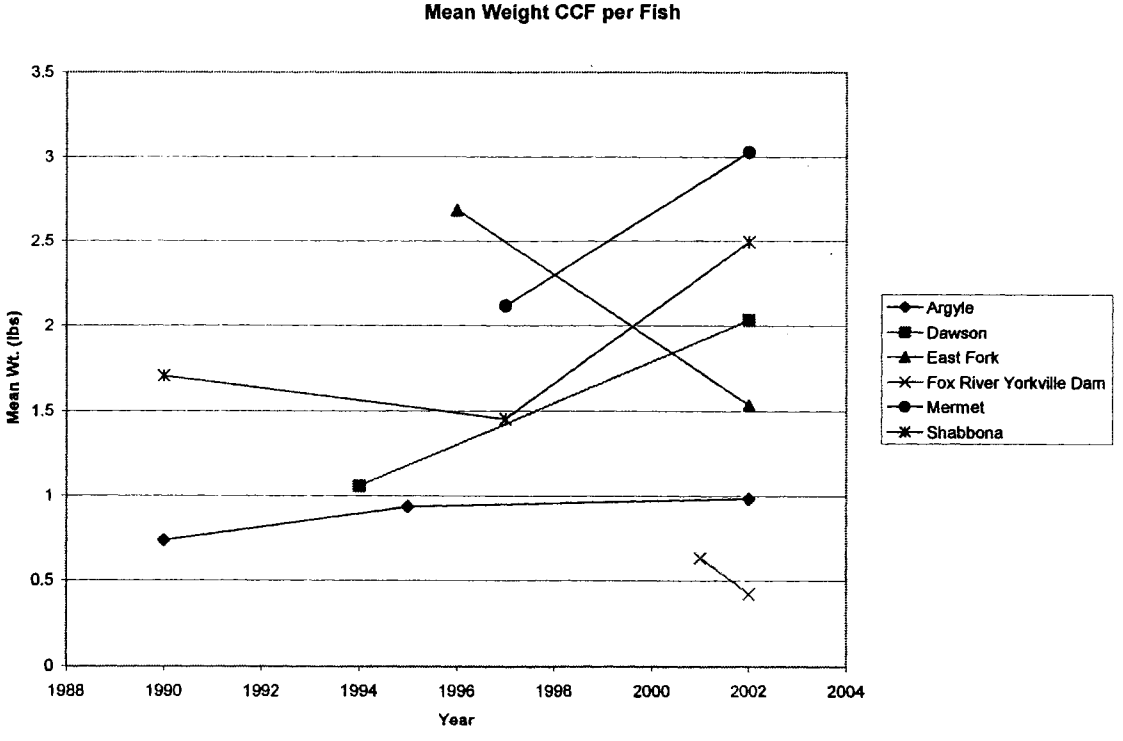

FIGURE B5. Bluegill CPUE (Catch per Angler Hour).

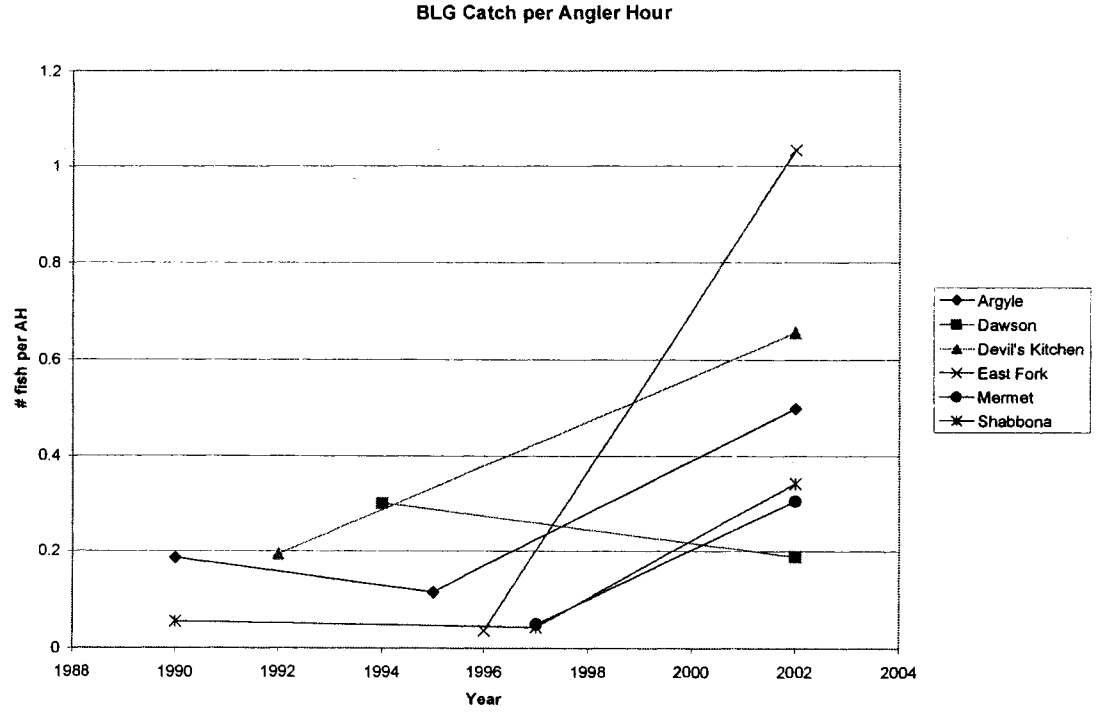

FIGURE B6. Bluegill Average Weight (pounds).