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**ILLINOIS  
NATURAL HISTORY  
SURVEY**

**CENTER FOR AQUATIC ECOLOGY AND CONSERVATION**

**FINAL REPORT**

1 March 2002 - 28 February 2005

**ANNUAL REPORT**

1 March 2004 - 28 February 2005

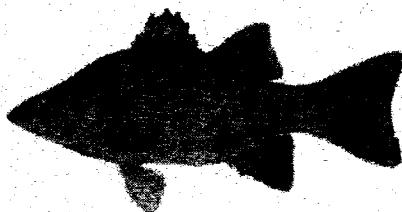
**DATABASE MANAGEMENT AND ANALYSIS OF FISHERIES  
IN ILLINOIS**

Jeffrey A. Stein, Robert F. Illyes, Thomasine McNamara, 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  
Segments 16-18

May 2005

Center for Aquatic Ecology & Conservation  
Technical Report 2005/06





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F-69-R-(16-18)

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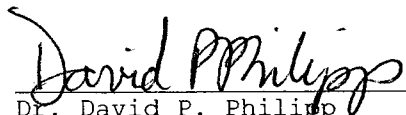
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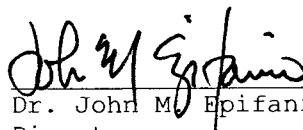
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This technical report is the annual report for Segment 18 of Project F-69-R, Database Management and Analysis of Fisheries in Illinois, which was conducted under a memorandum of understanding between the Illinois Department of Natural Resources and the Board of Trustees of the University of Illinois. The actual work was performed by the Illinois Natural History Survey, a division of the Illinois Department of Natural Resources. The project was supported through Federal Aid in Sport Fish Restoration (Dingell-Johnson) by the U.S. Fish and Wildlife Service, the Illinois Department of Natural Resources Division of Fisheries, and the Illinois Natural History Survey. The form, content, and data interpretation are the responsibility of the University of Illinois and the Illinois Natural History Survey, and not that of the Illinois Department of Natural Resources Division of Fisheries.

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## **EXECUTIVE SUMMARY**

The goal of Project F-69-R is to provide researchers and managers with the information necessary to manage, sustain, and improve the health of fisheries resources in Illinois lakes and streams. As such, there were three primary objectives identified during Segment 18: (1) conduct annual creel surveys on selected lakes; (2) provide programming support for the Fisheries Analysis System (FAS); (3) incorporate FAS databases to aid in the analysis of ongoing research projects and pertinent management questions.

Creel surveys were conducted on 13 lakes in Illinois during Segment 18, bringing the total to 302 total creel surveys on Illinois lakes since 1987. All of these lake creels were funded by Project F-69-R with additional financial support from IDNR Division of Fisheries.

All components of the Fisheries Analysis System (FAS) software and databases continue to be supported and improved as a part of our ongoing commitment to promote the use of FAS as a fisheries management and research tool. Several achievements have served to modernize the FAS system, including conversion of all software to 32-bit Windows applications, development of the FAS Support web site (featuring a growing selection of downloads of FAS programs, documentation, and databases) and automated

construction of statewide databases using scripts. An updated Rivers and Streams IBI module has been released, and a Large River IBI module has been developed. Lastly, we have launched an Illinois fisheries website, [www.ifishillinois.org](http://www.ifishillinois.org), which provides a wide array of angling related information to the public using data and analyses generated by Project F-69-R.

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 18 for Project F-69-R (2004), as well as a final project report covering Segments 16-18 (2002-2004). Creel data and associated project findings for Segments 16 and 17 were reported in previous project reports. Creel data collected during Segment 18 (Table 1) are significant additions to existing creel data for Illinois Lakes and provide important information to researchers working on related fisheries projects. Analysis of cumulative creel data continues and long-term trends will be analyzed to provide fisheries managers with additional perspective for making management decisions. Statewide averages of creel survey estimates covering 1997 - present have been

calculated for comparisons with single year estimates, providing much needed context for evaluating individual survey results. Further analyses will continue to provide additional metrics (i.e., 5-year rolling averages, lake specific averages, etc.,) to which single-year estimates can be compared. Additionally, creel data and other statewide fisheries databases are being used to develop important research topics relevant to fisheries management in Illinois.

## **JOB 101.1 ANGLER SURVEYS**

### **OBJECTIVE**

The following components constitute the overall objective for Job 101.1:

- 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 18: Busse, Jacksonville, Kakusha, Le-Aqua-Na, Lincoln Trail, Mermet, Murphysboro, Paris East, Paris West, Rend, Round, Spring Lake North, Tampier, and Walton Park (Appendix B).

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

## **FINDINGS**

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

Angler Effort. Total estimated fishing pressure was highest on Rend Lake at 118,142 angler-hours, Tampier Lake at 59,616 angler-hours, and Busse Lake South at 27,265 angler-hours. The lowest fishing effort among the lakes surveyed was estimated in Walton Park Lake at 6,585 angler-hours and Lake Kakusha at 6,965 angler-hours.

Lake Le-Aqua-Na had the highest fishing pressure per area at 494 angler-hours/acre. Tampier Lake had the second highest fishing pressure per area at 373 angler-hours/acre, followed by several lakes in the 100-225 angler-hour range. Although Rend Lake had by far the highest angler effort, it had the lowest fishing pressure per area at 7 angler-hours/acre. This is typical of large reservoirs in Illinois. Three lakes - Mermet, Le-Aqua-Na, and Lincoln Trail - had very similar levels of effort, but varied in size, indicating the smaller Le-Aqua-Na experienced heavier angling pressure on a per-acre basis than the larger Mermet. Angler effort estimates for lakes are summarized in Table B1 in Appendix B.

Harvest. Walton Park (1,149 fish, 840 pounds) and Round Lake (1,318 fish, 367 pounds) experienced the lowest levels of

estimated harvest. The highest harvest levels were observed on Rend Lake (91,234 fish; 88,727 pounds). Lake Murphysboro ranked second in number of fish harvested (23,467 fish) and third in estimated pounds harvested (8,463 pounds), and ranked first harvest per angler hour (1.472 fish per hour). This harvest per hour estimate is nearly three times higher than the next closest ranked lake, and more than three times the state average, indicating it considerably less effort was required to catch harvestable fish when compared to other lakes surveyed in 2004. This is largely driven by a very successful white crappie (*Pomoxis annularis*) fishery on Murphysboro. Results for estimated harvest levels for lakes are summarized in Table B2 in Appendix B.

Catch. Bluegill (*Lepomis macrochirus*), largemouth bass (*Micropterus salmoides*), white crappie, black crappie (*P. nigromaculatus*), and channel catfish (*Ictalurus punctatus*) were by far the most frequently caught species on surveyed lakes in 2004. Catch frequency is summarized in Table B3 in Appendix B.

Estimated catch rates (# caught per angler-hour) for the five most frequently caught species were highly variable across lakes (Table B4, Appendix B). Bluegill catch rates were the highest at Spring Lake North, where anglers caught 0.659 bluegill per angler-hour. Lowest catch rates for bluegill were found at Rend Lake (0.061), and Jacksonville (0.065). Catch

rates for largemouth bass were lowest in Lake Tampier (0.021), Mermet Lake (0.030) and Rend Lake (0.041). The highest catch rates for largemouth bass were observed on Lake Jacksonville (0.496), Paris East Lake (0.329) and Walton Park Lake (0.329). Rend Lake and Lake Jacksonville appear to be poorer fisheries for both largemouth bass and bluegill when compared to other lakes surveyed in 2004, as these lakes had low catch rates for both species. Catch rates for channel catfish were lowest in Round Lake (0.002) and Spring Lake North (0.009), and highest in Rend Lake (0.210).

Catch rates for crappie species were quite variable among lakes. Highest estimated catch rates of white crappie were found at Lake Murphysboro (1.290) and Rend Lake (0.630). The lowest catch rates for white crappie were found at Lake Tampier (0.018). Black crappie catch rates were highest at Le-Aqua-Na (0.426), followed by Busse Lake South (0.303) and Lake Kakusha (0.204). The lowest catch rates for black crappie were found at Rend Lake (0.001). Catch rates are summarized in Table B4, Appendix B.

Busse Lake South. Black crappie made up a majority (56%) of harvested fish from Busse Lake South, followed by bluegill (18%), even though less than 20% of anglers targeted these species. Catch was dominated by these panfish species as well, despite the largest group of anglers targeting walleye (28%).



Walleye made up 6% of total catch and averaged 14". Walleye harvest was minimal, but those few fish harvested averaged 20" in length, compared to the 18" size limit on the lake. Although channel catfish and largemouth bass also made notable contributions to total catch, they made little contribution to harvest. Overall, anglers harvested 22% of total catch compared to the state average from 1997-2003 of 31%.

Lake Jacksonville. Jacksonville was dominated by anglers targeting black bass (78%), with 45% of anglers specifically targeting largemouth bass but the lake produced few harvestable bass. Total harvest was only 14% of total catch, and was dominated by white crappie and channel catfish. Although largemouth bass were the most frequently caught species (66% of total catch), they averaged only 14" in length, below the 15" size limit. This led to minimal harvest, with relatively few fish apparently reaching harvestable size compared to the current size regulation.

Lake Kakusha. Black crappie dominated harvest in 2004 (66%), with minor contributions from channel catfish (22%), golden shiner (6%), bluegill (3%) and largemouth bass (2%). Bluegill, black crappie, largemouth bass and channel catfish combined to make up 97% of total catch and these species were targeted by 96% of anglers. Anglers harvested nearly 24% of all fish caught, which was below the state average (31%). Although

bluegill were the most commonly fish caught species, anglers harvested only 1% of the bluegill catch. The average bluegill caught measured less than 6" well below the 8" minimum size limit on Kakusha.

Lake Le-Aqua-Na. Black crappie and bluegill combined equally to make up 89% of total harvest, with channel catfish, warmouth, and largemouth bass rounding out notable harvested species. Although these same species were targeted by 75% of anglers, 23% of anglers were not targeting any particular species. Harvest reflected total catch, with bluegill, black crappie, largemouth bass and channel catfish making up 97% of total catch. Over 46% of all fish caught were harvested by anglers, 15% more than the state average. Harvested largemouth bass averaged just under the 14" minimum size limit, indicating a significant level of illegal harvest. The average size of largemouth bass caught by anglers was 10".

Lincoln Trail Lake. Bluegill, which were the most sought species by anglers, dominated the fishery in 2004, making up 57% of total harvest and 60% of total catch. Anglers also caught significant numbers of largemouth bass, black crappie, redear sunfish, and white crappie, and anglers harvested notable numbers of these same species with the exception of largemouth bass. The average length of largemouth bass caught by anglers was 13.5", and the average harvested largemouth bass was 12",

showing that the 14"-18" slot limit for largemouth bass on Lincoln Trail was resulting in most harvested bass being below the slot. Anglers harvested 42% of all fish caught, compared to the state average of 31%.

Mermet Lake. Mermet Lake experienced a severe fish-kill on or about July 25, 2004, resulting in an estimated 90% kill of adult sport fish (Chris Bickers, pers. comm.). Analyses of creel data were conducted for the entire season as a whole, which included both before and after the fish kill (see Appendix B, pp. 82-105). Angling prior to the fish kill accounted for 89% of all interviews, 90% of the entire season's angling effort, 99% of all harvested fish, and 99% of all caught fish. All summary data presented in this report, including narrative descriptions below, refer to angling data for the entire season (pre- and post-kill combined).

The fishery on Mermet Lake was dominated by panfish in 2004, with black and white crappie combining to account for 55% of all harvested fish, and 34% of all caught fish. Bluegill was the most caught single species, accounting for 50% of all caught species, but only 25% of harvest. This disparity is likely due to the relative small average size of bluegill caught (average length 7", compared to 8" minimum size limit). Channel catfish was also a significant contributor to the fishery, making up 14% of total harvest and 9% of total catch. Largemouth bass was a

minor species in the fishery, contributing less than 5% of catch and 2% of harvest. Largemouth bass averaged nearly 15", well over the size limit of 14", and nearly 20% of all anglers targeted largemouth bass, perhaps demonstrating that the low numbers of largemouth bass in the creel could be reflective of a small population size for the species. Anglers harvested 50% of all fish caught in 2004, compared to 31% state average.

Lake Murphysboro. The fishery on Lake Murphysboro was dominated by panfish, specifically white crappie (68% of harvest, 54% of total catch), bluegill (19% of harvest, 27% of total catch) and black crappie (4% of harvest, 5% of total catch). Combined, these three species accounted for 91% of harvest and 86% of total catch. Other notable species included channel catfish (5% of harvest, 6% of total catch) and largemouth bass (2% of harvest, 7% of total catch). Anglers harvested 62% of total catch, double the state average.

Paris East Lake. Bluegill was the top species of the Paris East fishery, making up 57% of harvest and 38% of total catch, although the largest number of anglers targeted largemouth bass (4% of harvest, 24% of total catch). The minimal harvest of largemouth bass is likely attributable to its small size at catch (11" average) compared to the 14" minimum size limit. White crappie (12% of harvest, 11% of total catch) and channel catfish (11% of harvest, 7% of total catch) also were notable

species in the fishery. Anglers harvested only 18% of total catch, compared to the state average of 31%.

Paris West Lake. Like its twin, Paris East, Paris West Lake's fishery was dominated by bluegill (63% of harvest, 54% of total catch), while largemouth bass (minimal harvest, 15% of total catch) channel catfish (15% of harvest, 8% of total catch) and yellow bullhead (minimal harvest, 2% of total catch) rounded out the major species comprising the fishery. The lack of significant harvest of largemouth bass is likely attributable to the small average size of largemouth bass caught by anglers (13") relative to the lake's 14" size limit. Anglers only harvested 21% of total catch, while targeting catfish (30% of anglers) and largemouth bass (26% of anglers).

Rend Lake. Anglers focused their efforts on three species groups in 2004: white and black crappie, largemouth bass, and catfish. White crappie dominated total catch (63%) and harvest (54%), followed by channel catfish (36% of harvest, 19% of total catch), bluegill (4% of harvest, 5% of total catch) and white bass (4% of harvest, 3% of total catch). Largemouth bass were not harvested in significant numbers, and made up 8% of total catch. The average harvested white crappie was 10", and caught white crappie averaged 8". Average size of caught largemouth bass was 13.6", compared to an average size of 14.7" for harvested bass. The lake specific size limit for largemouth

bass was 14". Anglers harvested 47% of all catch, and a remarkable 90% of all channel catfish caught. Harvested channel catfish averaged 18" in length.

Rend Lake - November Crappie. Normal creel survey efforts were modified and extended into the month of November at the request of the district biologist managing the lake in an effort to assess the pressure of late-season anglers on certain portions of the lake (see Figure B-1, Appendix B). These late-season anglers almost exclusively targeted crappie (95% of anglers), and caught over 3.6 fish per hour, compared to 0.6 per hour from March to October. There was no significant size difference among crappie caught during November and the earlier part of the season (see above). Anglers harvested 36% of their white crappie catch in November, compared to 40% during the rest of the season. Based on CPUE values, anglers are catching six times as many white crappie and harvesting eight times as many in November compared to the March to October time period in 2004.

Round Lake. The Round Lake fishery is centered around bluegill and largemouth bass, with bluegill making up 56% of harvest and 64% of total catch. Largemouth bass made up 14% of total catch, although anglers harvested this species in very low numbers. Largemouth bass averaged just under 14", with little difference in average size between harvested fish and all fish

caught, likely an effect of no size limit for this species on Round Lake. Other notable species that appeared in the creel were yellow perch (15% of harvest and 10% of total catch) and black crappie (11% of harvest and 4% of total catch). Anglers harvested only 14% of total catch, less than half the state average.

Spring Lake North. Over half of all anglers targeted largemouth bass, with an additional 20% targeting bluegill. These two species accounted for 90% of all fish caught and harvested, with bluegill making up 83% of harvest and 63% of total catch, and largemouth bass making up 5% of harvest and 27% of total catch. Spring Lake North has a restrictive size limit of 15" for largemouth bass - the average size of a harvested bass was well above this limit at 17" and the average size of all largemouth bass was 14.5". Black crappie, redear sunfish, and warmouth also made small contributions to the fishery - each species made up 3% of harvest and less than 4% of total catch. Overall, anglers harvested 28% of total catch, slightly lower than the state average.

Tampier Lake. Tampier Lake offers angler a very diverse fishery, with yellow bass, bluegill, common carp, black bullhead, channel catfish and green sunfish among the more commonly caught species. Bluegill (22% of harvest, 30% of total catch) and yellow bass (30% of harvest, 27% of total catch) were

the dominant species, with black bullhead (6% of harvest, 10% of total catch), common carp (18% of harvest, 5% of total catch) and black bullhead (6% of harvest, 10% of total catch) making minor contributions to the creel. Anglers harvested 15% of total catch, slightly higher than the state average.

Walton Park Lake. Although bluegill was the most commonly caught species, making up 33% of total catch, anglers were not harvesting bluegill due to an extremely small average size of 4". White crappie were the most commonly harvest species, making up 61% of harvest and 25% of total catch. Although largemouth bass made up only 2% of harvest, it accounted for 15% of total catch. The average size of a largemouth bass was 11.5", well below the 15" minimum size limit for this lake. Channel catfish were an important component of the fishery - 31% of harvest and 21% of total catch were channel catfish. Overall, anglers harvested only 10% of total catch, well below the state average, and the lowest of all lakes sampled in 2004.

## **RECOMMENDATIONS**

The information collected by creel surveys 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 creel database should continue to supplement important research and management questions. Analyses of individual lake fisheries using creel data should continue, and be compared to historical estimates in order to identify trends and interpret fishery dynamics.

Lake creel data is important for evaluating the success of experimental bluegill harvest regulations under Project F-128-R, and for evaluating the impact of largemouth bass stocking efforts under Project F-135-R. Analyses 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 segments 16-18.

**Segment 16 (2002)**

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

**Segment 17 (2003)**

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

**TABLE 1, continued.** Creel lakes and streams surveyed during segments 16-18.

**Segment 18 (2004)**

<u>Lake/Stream</u>	<u>County</u>
Busse	Cook
Jacksonville	Morgan
Kakusha	LaSalle
Le-Aqua-Na	Stephenson
Lincoln Trail	Clark
Mermet	Massac
Murphysboro	Jackson
Paris East	Edgar
Paris West	Edgar
Rend	Franklin & Jefferson
Round	Lake
Spring Lake North	Tazewell
Tampier	Cook
Walton Park	Montgomery

## **JOB 101.2 FISHERIES DATABASE ENHANCEMENT**

### **OBJECTIVE**

The following components constitute the overall objective for Job 101.2:

- Support and Enhance the FAS Software and Databases
- Coordinate data entry and management of all three FAS databases with the IDNR Division of Fisheries
- Develop web-based interface for communicating FAS summary data to the public
- Convert FAS LAKES data entry and analysis software packages to Microsoft Windows format

### **PROCEDURES**

All portions of the Fisheries Analysis System (FAS) software and databases developed under F-69-R and F-120-R continue to be supported and improved as a part of our ongoing commitment to promote the use of FAS as a fisheries management and research tool. Starting in 2004, the FAS Support web site has featured a growing selection of downloads of FAS programs, documentation, and databases.

All FAS software components are now converted to 32-bit Windows applications. All database access is via the 32-bit

Borland Database Engine (BDE). We are licensed to distribute the BDE at no cost with our software. The most important consequence of this option is that new programs do not require the presence of either Paradox or Quattro Pro for proper functioning. This is important because although most users of FAS use Borland products, there are a few that do not.

Statewide database construction is now being done by script. The scripts have been extended to accept SQL commands to satisfy the special requirements of the Rivers and Streams databases. Databases are available in the current FAS format for all FAS data entered by IDNR Fisheries and CAEC personnel. In addition, related IEPA and INHS databases have been made available.

The new Smogor (IEPA) Index of Biotic Integrity is now a module of the Rivers and Streams FAS. In addition, a new large rivers IBI has been developed in collaboration with IDNR Fisheries. This large rivers IBI uses the metrics of John Lyons' large river IBI, with scoring adapted to Illinois conditions and species. It is also available as a module of FAS.

No historical streams fieldsheets have been released to INHS for entry during the past three segments, and, therefore, none was entered into the database.

An Illinois fisheries website, [www.ifishillinois.org](http://www.ifishillinois.org), has been developed for use by the public. This effort continues to

put a public face on the FAS Program and provide immeasurable benefit to current and prospective anglers in Illinois.

The site provides general information about angling opportunities in Illinois, as well as lake specific information generated using FAS data (see Figures C1 - C3, Appendix C). The site was used by over 4000 unique visitors during the first month (April 2004) - this number increased by nearly 300% to 12,064 unique visitors in April 2005. Website traffic averaged 1994 pages per day in April 2004, and nearly doubled to 3,686 pages per day in April 2005. The greatest usage has been seen during the spring and summer months. Usage statistics and example pages from [www.ifishillinois.org](http://www.ifishillinois.org) are presented in Appendix C.

The integration of summary creel and fisheries data with the website has begun and continues to grow. As FAS Databases grow in future years, so will the public web interface and the information it provides anglers.

## **RECOMMENDATIONS**

Efforts to make compatible the IDNR Fisheries, IEPA, and CAEC databases should continue. All three organizations benefit by this ongoing collaboration and data sharing. Additional indices such as the Shannon Diversity Index should be included as options available in the FAS Rivers and Streams software.

INHS-CAEC should have direct access to the historical datasheet archives so that there is no availability bottleneck to the entry of the remaining unentered samples.

## **JOB 101.3 COORDINATION WITH ONGOING FISHERIES RESEARCH PROJECTS**

### **OBJECTIVE**

The following components constitute the overall objective for Job 101.3:

- 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 size structure of fish populations through experimental harvest regulations and predator/habitat manipulations.

### **PROCEDURES**

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

Project F-135-R. Evaluation of fish stocking programs in Illinois lakes was identified as an important objective of



Project F-69-R. Currently, stocking evaluations are made by IDNR Division of Fisheries personnel, based in part on results of creel survey data collected from Project F-69-R. These evaluations are generally lake-specific, and little has been done to evaluate stocking on a statewide level. As stocking evaluations are a primary goal of Project F-135-R *Factors Influencing Largemouth Bass Recruitment: Implications for the Illinois Management and Stocking Program*, we expect to contribute the analysis of creel survey data towards largemouth bass stocking evaluations. Completion of cleanup efforts on the FAS Lakes database and Creel database during this and previous segments has now opened the door for its use in population-level analyses to evaluate the success of stocking programs and support research efforts on Project F-135-R.

## **FINDINGS**

Project F-128-R. Creel surveys were conducted on twelve project lakes during segment 18, bringing the total number of project lakes surveyed post-treatment to 24. Analyses continue to produce interim post-treatment results for Project F-128-R, and will be fully reported in that project's next annual report.

Mean length of caught bluegill, pre- and post-implementation of the 8" size limit regulation treatment, are presented for two lakes with quality populations (Busse South

and Walnut Point) and two lakes with stunted populations (Tampier and Dolan) in Table 2. There appears to be no significant difference in effect of the regulation between quality and stunted populations, and all lakes experienced an increase of 0.5" to the mean length of angled bluegill. While this initial analysis may demonstrate the potential of a restrictive size limit in helping to grow the average length of bluegill populations, a fuller analysis of all 32 study lakes, with comparisons to control lakes, will provide a clearer and more statistically robust analysis. Additionally, fishery-independent data (e.g., AC boat electroshocking) is not considered here, but would supplement creel survey data in any final analysis. Such analyses will be presented in full in the F-120-R final report.

Project F-135-R. Analyses regarding the 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 for the assessment of current adaptive management programs and their impact to the recreational fishery. Most importantly, however, intensive efforts must

continue to bring the other two FAS databases (FAS Lakes and FAS Streams) on line as usable resources. Continued progress has been made on this front in Segment 18, and this effort should be completed during the next segment. Once this task is accomplished, assessments of bluegill project and largemouth bass project study lakes should be conducted and compared to creel datasets and project specific sampling results.

**TABLE 2.** Preliminary analyses of effect of restrictive 8" minimum size limit regulation on mean length of angled bluegill in four study lakes from Project F-120-R.

<u>Lake</u>	<u>Mean Length (in)</u>		<u>+/-</u>	<u>% Change</u>
	<u>Pre Regulation</u>	<u>Post Regulation</u>		
Busse South	5.55	6.01	0.46	8.3%
Walnut Point	5.96	6.53	0.57	9.6%
Tampier	4.42	5.05	0.63	14.2%
Dolan	5.42	5.94	0.52	9.7%
		<b>Mean</b>	<b>0.55</b>	<b>10.4%</b>

**TABLE 3.** Segment 18 Job Costs - Budget v. Actual.

	<u>Budget</u>	<u>Actual</u>	<u>+/-</u>
Job 101.1 Angler Surveys	\$514,726	\$513,269	(\$1,457)
Job 101.2 Fisheries Database Enhancement	\$121,855	\$121,318	(\$537)
Job 101.3 Coordination with ongoing Fisheries research	\$54,904	\$56,898	\$1,994
TOTAL COSTS	\$691,485	\$691,485	\$0
Federal Share	\$518,614	\$518,614	\$0
State Share	\$172,871	\$172,871	\$0

## APPENDIX A. INTERPRETIVE GUIDE TO 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. Another useful reference is *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  $3 \times 93$  or 279 day periods. The Sampling Ratio =  $(128/279) \times 100\%$ , or 45.8%.

#### **NUMBER OF INTERVIEWS**

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

#### **PART ONE: EFFORT, HARVEST, AND CATCH ESTIMATES**

##### **TABLE 1. TOTAL FISHING EFFORT**

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

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



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

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

The **FISHING MODE** column will usually include BOAT, SHORE, and BOAT & SHORE. Estimates are made separately for boat

and for shore fishing, and these estimates are later combined into an overall total estimate of both boat and shore.

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

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

The **95% CI** columns follow estimated totals, such as ANGLER HOURS in TABLE 1, and in TABLES 3-8. These report the 95% confidence interval for the estimated totals. In other

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

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

The **% EFF INTVD** column, located on the right margin of the effort table, is the percentage of the estimated total effort actually accounted for by angler interviews. This number is calculated by summing the total hours of fishing reported by anglers from each stratum (i.e. Day Period,

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

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

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

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

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

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

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

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

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

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

The **SPECIES** column lists all species recorded in angler interviews. Note that this is different from the original Apple II/e creel analysis reports. These original reports were memory-limited to only 9 species per table. Additional species were either included in an additional table or were listed under "MSC" (Miscellaneous species) in the harvest table. Beginning with the 1999 creel analysis reports, all species recorded in angler interviews will be listed in Table 2 through Table 7. Any species that does not appear in these tables was not recorded in angler interviews, and therefore no estimate could be made of the harvest or catch for that species.

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

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

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

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

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

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

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

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



## **TABLES 5-7. TOTAL FISHING CATCH AND CATCH RATES**

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

### **A NOTE ON BIOMASS ESTIMATES**

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

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

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

**PART TWO: SUPPLEMENTAL INTERVIEW INFORMATION**

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

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

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

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

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

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

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

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

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

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

#### **ILLEGAL HARVEST**

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

**TABLE 9. FREQUENCY DISTRIBUTION OF ANGLER PARTY SIZE**

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

**TABLE 10. TARGETED SPECIES**

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

**TABLE 11. CATCH FREQUENCY DISTRIBUTION**

TABLE 11 is a frequency distribution of anglers reporting a given number of harvested and released fish, by species, for completed trip interviews only. It examines each interview for the number of fish of a single species or

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

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

The 500 completed trip interviews actually cover the catch of 708 anglers in this case, since a number of angler parties had more than one angler. Of these 708 anglers, 651 anglers reported no walleye harvested on their trip (or averaged less than 1 walleye per angler per angler party), 50 anglers were in parties that harvested an average of 1 walleye/angler, and 7 anglers were in parties that harvested an average of 2 walleye/angler. No anglers were in parties that harvested more than 2 walleye/angler. Each zero value is represented by a dash.

APPENDIX B. 2004 CREEL SURVEY RESULTS

The following pages contain the final results from the fourteen 2004 day creel surveys conducted on Illinois lakes, funded by Project F-69-R-18. Results are presented in the order listed in the table below, by lake name. Following the individual lake results presented in Appendix B are four tables providing comparisons between lakes (Tables B1-4).

LAKE	ACRES	COUNTY	REGION	DISTRICT	BIOLOGIST
Busse	146	Cook	2	8	Frank Jakubicek
Jacksonville	442	Morgan	4	12	Mike Jones
Kakusha	53	LaSalle	1	2	Ken Clodfelter
Le-Aqua-Na	43	Stephenson	1	1	Ken Clodfelter
Lincoln Trail	137	Clark	3	11	Mike Mounce
Mermet	439	Massac	5	22	Chris Bickers
Murphysboro	140	Jackson	5	21	Shawn Hirst
Paris East	163	Edgar	3	11	Mike Mounce
Paris West	75	Edgar	3	11	Mike Mounce
Rend	16,135	Franklin/ Jefferson	5	19	Mike Hooe
Round	227	Lake	2	7	Frank Jakubicek
Spring Lake North	466	Tazewell	1	5	Wayne Herndon
Tampier	160	Cook	2	8	Frank Jakubicek
Walton Park	30	Montgomery	4	15	Jeff Pontnack

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 BUSSE LAKE SOUTH  
 146 ACRES  
 REGION 2, DISTRICT 8

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 Year periods stratified.  
 Fishing modes (boat vs. shore) stratified.  
 Day types (weekday vs. weekend/holiday) stratified.  
 Day periods (morning, midday, and afternoon) stratified.  
 Yearperiod 8 coalesced with yearperiod 9.

SAMPLING RATIO: 260/693 = 37.5%

NUMBER OF INTERVIEWS: 2248

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	1762	1365-2159 ( 23%)	12	9-15 ( 23%)	11%
	HOLIDAY	2094	1558-2629 ( 26%)	14	11-18 ( 26%)	33%
	TOTAL	3856	3216-4495 ( 17%)	26	22-31 ( 17%)	23%
SHORE	WEEKDAY	12110	10923-13298 ( 10%)	83	75-91 ( 10%)	16%
	HOLIDAY	11793	10255-13330 ( 13%)	81	70-91 ( 13%)	30%
	TOTAL	23903	22071-25735 ( 8%)	164	151-176 ( 8%)	23%
BOAT & SHORE	WEEKDAY	13872	12620-15124 ( 9%)	95	86-104 ( 9%)	15%
	HOLIDAY	13887	12297-15477 ( 11%)	95	84-106 ( 11%)	31%
	TOTAL	27759	25828-29690 ( 7%)	190	177-203 ( 7%)	23%



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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
7910	6176-9643	( 22%)	.193	.131-.255 ( 32%)	133.87	54.18	All species
47	0-108	(129%)	.001	.000-.002 (104%)	0.80	0.32	Black bullhead
4464	3061-5867	( 31%)	.101	.067-.134 ( 34%)	75.55	30.58	Black crappie
1410	760-2061	( 46%)	.031	.002-.060 ( 94%)	23.87	9.66	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
70	24-117	( 66%)	.001	.000-.002 ( 68%)	1.19	0.48	Carp
966	690-1242	( 29%)	.024	.016-.032 ( 34%)	16.35	6.62	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
			****	NOT RECORDED ****			Green sunfish
51	8-94	( 84%)	.001	.000-.002 ( 92%)	0.86	0.35	Largemouth bass
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
118	0-246	(108%)	.003	.000-.006 ( 87%)	2.00	0.81	Walleye
			****	NOT RECORDED ****			Warmouth
480	0-1447	(202%)	.023	.000-.095 (307%)	8.12	3.29	White crappie
112	0-241	(115%)	.002	.000-.004 ( 81%)	1.90	0.77	Yellow bullhead
1	0-4	(231%)	.000	.000-.000 (231%)	0.02	0.01	Yellow perch
190	0-465	(145%)	.006	.000-.017 (206%)	3.21	1.30	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
1252	1023-1482	( 18%)	.030	.024-.037 ( 22%)	21.19	0.158	All species
3	0-8	(138%)	.000	.000-.000 (110%)	0.06	0.070	Black bullhead
419	289-548	( 31%)	.010	.006-.013 ( 34%)	7.08	0.094	Black crappie
100	65-135	( 35%)	.002	.001-.004 ( 69%)	1.69	0.071	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
102	0-311	(206%)	.001	.000-.004 (148%)	1.72	1.449	Carp
360	251-469	( 30%)	.009	.006-.012 ( 33%)	6.09	0.372	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
			****	NOT RECORDED ****			Green sunfish
50	10-90	( 80%)	.001	.000-.002 ( 87%)	0.84	0.977	Largemouth bass
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
147	0-446	(204%)	.004	.000-.008 ( 91%)	2.49	1.244	Walleye
			****	NOT RECORDED ****			Warmouth
44	0-133	(200%)	.002	.000-.007 (223%)	0.75	0.092	White crappie
12	2-23	( 82%)	.000	.000-.001 (105%)	0.21	0.111	Yellow bullhead
0	0-1	(231%)	.000	.000-.000 (231%)	0.00	0.167	Yellow perch
15	0-31	(104%)	.000	.000-.001 (137%)	0.26	0.080	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
2761	2255-3266	( 18%)	.066	.052-.081 ( 22%)	18.91	0.349	All species
7	0-17	(138%)	.000	.000-.000 (110%)	0.05	0.154	Black bullhead
923	638-1207	( 31%)	.021	.014-.029 ( 34%)	6.32	0.207	Black crappie
221	143-299	( 35%)	.005	.001-.008 ( 69%)	1.51	0.157	Bluegill
			****	NOT RECORDED ****			Bullhead spp.
224	0-685	(206%)	.003	.000-.008 (148%)	1.53	3.195	Carp
793	553-1034	( 30%)	.020	.013-.026 ( 33%)	5.43	0.821	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
			****	NOT RECORDED ****			Green sunfish
110	21-198	( 80%)	.002	.000-.004 ( 87%)	0.75	2.154	Largemouth bass
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Redear sunfish
324	0-984	(204%)	.009	.001-.017 ( 91%)	2.22	2.742	Walleye
			****	NOT RECORDED ****			Warmouth
98	0-293	(200%)	.005	.000-.015 (223%)	0.67	0.204	White crappie
27	5-50	( 82%)	.001	.000-.002 (105%)	0.19	0.244	Yellow bullhead
0	0-1	(231%)	.000	.000-.000 (231%)	0.00	0.368	Yellow perch
33	0-68	(104%)	.001	.000-.002 (137%)	0.23	0.176	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
35657	29885-41428	( 16%)	.959	.775-1.142( 19%)	603.48	244.22	All species
183	73-292	( 60%)	.004	.001-.008 ( 84%)	3.09	1.25	Black bullhead
11713	8761-14665	( 25%)	.302	.206-.398 ( 32%)	198.24	80.23	Black crappie
15322	11201-19442	( 27%)	.380	.251-.508 ( 34%)	259.31	104.94	Bluegill
8	0-35	(318%)	.000	.000-.001 (430%)	0.14	0.06	Bullhead spp.
117	55-179	( 53%)	.003	.001-.004 ( 70%)	1.98	0.80	Carp
1921	1484-2357	( 23%)	.054	.032-.076 ( 40%)	32.51	13.15	Channel catfish
2	0-9	(430%)	.000	.000-.000 (430%)	0.03	0.01	Crappie spp.
238	0-616	(159%)	.004	.000-.010 (163%)	4.03	1.63	Green sunfish
2337	1218-3456	( 48%)	.089	.045-.134 ( 50%)	39.55	16.01	Largemouth bass
2	0-9	(430%)	.000	.000-.000 (430%)	0.03	0.01	Rock bass
4	0-11	(153%)	.000	.000-.000 (200%)	0.07	0.03	Redear sunfish
2312	1904-2720	( 18%)	.077	.057-.096 ( 26%)	39.12	15.83	Walleye
11	0-36	(231%)	.000	.000-.001 (231%)	0.19	0.08	Warmouth
724	0-1689	(133%)	.028	.000-.104 (279%)	12.26	4.96	White crappie
179	46-311	( 74%)	.005	.002-.007 ( 54%)	3.02	1.22	Yellow bullhead
52	0-204	(295%)	.001	.000-.002 (154%)	0.88	0.35	Yellow perch
533	15-1051	( 97%)	.012	.000-.028 (127%)	9.02	3.65	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
5057	4004-6110 ( 21%)	.149	.118-.180 ( 21%)	85.58	0.142	All species
16	7-25 ( 56%)	.000	.000-.001 ( 81%)	0.27	0.088	Black bullhead
950	725-1174 ( 24%)	.026	.017-.035 ( 34%)	16.07	0.081	Black crappie
992	702-1282 ( 29%)	.026	.016-.036 ( 39%)	16.78	0.065	Bluegill
0	0-2 (318%)	.000	.000-.000 (318%)	0.01	0.049	Bullhead spp.
165	5-325 ( 97%)	.004	.000-.008 ( 99%)	2.79	1.407	Carp
629	464-795 ( 26%)	.015	.011-.019 ( 26%)	10.65	0.328	Channel catfish
0	0-1 (430%)	.000	.000-.000 (430%)	0.00	0.071	Crappie spp.
5	0-11 (148%)	.000	.000-.000 (147%)	0.08	0.019	Green sunfish
1262	0-2679 (112%)	.042	.011-.074 ( 75%)	21.37	0.540	Largemouth bass
0	0-1 (318%)	.000	.000-.000 (318%)	0.00	0.097	Rock bass
0	0-1 (193%)	.000	.000-.000 (156%)	0.01	0.073	Redear sunfish
927	682-1171 ( 26%)	.032	.020-.043 ( 36%)	15.68	0.401	Walleye
0	0-1 (236%)	.000	.000-.000 (231%)	0.00	0.015	Warmouth
58	0-129 (123%)	.002	.000-.007 (205%)	0.98	0.080	White crappie
18	8-29 ( 59%)	.001	.000-.001 ( 74%)	0.31	0.103	Yellow bullhead
2	0-6 (127%)	.000	.000-.000 (146%)	0.04	0.048	Yellow perch
32	9-54 ( 71%)	.001	.000-.001 ( 87%)	0.54	0.059	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
11148	8827-13469 ( 21%)	.328	.260-.397 ( 21%)	76.36	0.313	All species
35	16-55 ( 56%)	.001	.000-.001 ( 81%)	0.24	0.194	Black bullhead
2094	1599-2588 ( 24%)	.057	.038-.077 ( 34%)	14.34	0.179	Black crappie
2186	1547-2825 ( 29%)	.057	.034-.079 ( 39%)	14.97	0.143	Bluegill
1	0-5 (430%)	.000	.000-.000 (430%)	0.01	0.107	Bullhead spp.
363	11-716 ( 97%)	.008	.000-.017 ( 99%)	2.49	3.103	Carp
1387	1022-1752 ( 26%)	.034	.025-.043 ( 26%)	9.50	0.722	Channel catfish
0	0-1 (318%)	.000	.000-.000 (318%)	0.00	0.157	Crappie spp.
10	0-25 (148%)	.000	.000-.000 (147%)	0.07	0.042	Green sunfish
2783	0-5907 (112%)	.093	.024-.162 ( 75%)	19.06	1.191	Largemouth bass
0	0-1 (318%)	.000	.000-.000 (430%)	0.00	0.213	Rock bass
1	0-2 (193%)	.000	.000-.000 (156%)	0.00	0.161	Redear sunfish
2043	1503-2582 ( 26%)	.070	.045-.096 ( 36%)	13.99	0.884	Walleye
0	0-1 (231%)	.000	.000-.000 (236%)	0.00	0.034	Warmouth
127	0-284 (123%)	.005	.000-.015 (205%)	0.87	0.176	White crappie
41	17-64 ( 59%)	.001	.000-.002 ( 74%)	0.28	0.227	Yellow bullhead
5	0-12 (127%)	.000	.000-.000 (146%)	0.04	0.105	Yellow perch
70	20-120 ( 71%)	.002	.000-.003 ( 87%)	0.48	0.131	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	4.0	3.7-4.3	( 8%)	0.5	9.0	128
SHORE	2.2	2.1-2.3	( 5%)	0.2	9.0	456
BOAT & SHORE	2.6	2.5-2.7	( 5%)	0.2	9.0	584
MILES TRAVELED	11.3	10.9-11.6	( 3%)	1	60	1803
SUCCESS RATING (1-10)	3.5	3.4-3.7	( 4%)	1	10	1784

\*154 samples were from split interviews of completed trips.  
27.9% of all 2092 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 53 out of 2092 interviews with illegal harvests.

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

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	63	81	2	2						
SHORE INTERVIEWS	1211	536	130	52	10	3	1	1		

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

620 ( 29.6%)	ANY	All species
72 ( 3.4%)	BLC	Black crappie
65 ( 3.1%)	BLG	Bluegill
1 ( 0.0%)	BSS	Black bass spp.
83 ( 4.0%)	CAP	Carp
176 ( 8.4%)	CCF	Channel catfish
243 ( 11.6%)	CRP	Crappie spp.
233 ( 11.1%)	LMB	Largemouth bass
1 ( 0.0%)	NOP	Northern pike
1 ( 0.0%)	SUN	Sunfish spp. excluding Crappie and Black Bass
584 ( 27.9%)	WAE	Walleye
13 ( 0.6%)	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 bullhead																
HARVEST	831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	820	9	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	789	2	5	4	4	1	1	1	1	1	7	-	-	-	-	15
RELEASE	764	24	14	4	7	1	3	-	1	-	4	-	2	-	-	7
Bluegill																
HARVEST	814	6	2	6	-	-	-	-	2	-	-	-	-	-	-	1
RELEASE	658	69	29	31	5	9	2	4	6	-	5	-	1	-	-	12
Carp																
HARVEST	829	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	828	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	797	26	4	4	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	777	47	3	2	-	-	-	-	-	-	2	-	-	-	-	-
Crappie spp.																
HARVEST	831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	830	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	829	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Largemouth bass																
HARVEST	822	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	674	93	39	17	3	1	4	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	829	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	811	14	6	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	673	78	45	16	5	7	2	-	-	-	3	-	1	-	1	-
Warmouth																
HARVEST	831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	829	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	830	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	828	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-

Table 11, continued. Number of anglers with a given harvest &amp; release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Yellow bullhead																
HARVEST	822	-	2	3	2	-	1	1	-	-	-	-	-	-	-	-
RELEASE	824	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	828	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	829	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-
RELEASE	823	6	1	1	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 LAKE JACKSONVILLE  
 476 ACRES  
 REGION 4, DISTRICT 12

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/16/2004

Year periods stratified.  
 Fishing modes (boat vs. shore) stratified.  
 Day types (weekday vs. weekend/holiday) stratified.  
 Day periods (morning, midday, and afternoon) stratified.  
 Yearperiod 3 coalesced with yearperiod 4.

SAMPLING RATIO: 282/648 = 43.5%

NUMBER OF INTERVIEWS: 1145

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	7068	6026-8110 ( 15%)	15	13-17 ( 15%)	15%
	HOLIDAY	10027	7963-12092 ( 21%)	21	17-25 ( 21%)	24%
	TOTAL	17096	14783-19409 ( 14%)	36	31-41 ( 14%)	20%
SHORE	WEEKDAY	1176	844-1507 ( 28%)	2	2-3 ( 28%)	12%
	HOLIDAY	931	635-1227 ( 32%)	2	1-3 ( 32%)	14%
	TOTAL	2107	1682-2532 ( 20%)	4	4-5 ( 20%)	13%
BOAT & SHORE	WEEKDAY	8244	7150-9338 ( 13%)	17	15-20 ( 13%)	15%
	HOLIDAY	10959	8877-13040 ( 19%)	23	19-27 ( 19%)	23%
	TOTAL	19203	16851-21554 ( 12%)	40	35-45 ( 12%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2441	1416-3467	( 42%)	.129	.087-.171 ( 32%)	12.67	5.13	All species
18	0-60	(236%)	.000	.000-.002 (231%)	0.09	0.04	Bluegill
15	0-47	(218%)	.001	.000-.002 (218%)	0.08	0.03	Bullhead spp.
			****	NOT RECORDED ****			Carp
405	205-605	( 49%)	.036	.014-.059 ( 61%)	2.10	0.85	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
20	0-46	(131%)	.000	.000-.001 (171%)	0.10	0.04	Largemouth bass
			****	NOT RECORDED ****			Redear sunfish
4	0-15	(236%)	.000	.000-.000 (236%)	0.02	0.01	Striped bass x Whit
			****	NOT RECORDED ****			Smallmouth bass
1975	979-2970	( 50%)	.091	.054-.129 ( 41%)	10.25	4.15	White crappie
5	0-16	(223%)	.000	.000-.000 (223%)	0.02	0.01	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
918	560-1276	( 39%)	.053	.033-.073 ( 37%)	4.77	0.376	All species
1	0-4	(231%)	.000	.000-.000 (236%)	0.01	0.068	Bluegill
1	0-4	(218%)	.000	.000-.000 (218%)	0.01	0.081	Bullhead spp.
			****	NOT RECORDED ****			Carp
269	125-412	( 54%)	.028	.010-.045 ( 65%)	1.39	0.663	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
			****	NOT RECORDED ****			Golden shiner
			****	NOT RECORDED ****			Green sunfish
23	0-50	(124%)	.000	.000-.001 (149%)	0.12	1.141	Largemouth bass
			****	NOT RECORDED ****			Redear sunfish
26	0-86	(231%)	.000	.000-.001 (236%)	0.14	5.884	Striped bass x Whit
			****	NOT RECORDED ****			Smallmouth bass
597	259-934	( 57%)	.025	.015-.034 ( 40%)	3.10	0.302	White crappie
2	0-7	(223%)	.000	.000-.000 (223%)	0.01	0.429	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
2024	1235-2814	( 39%)	.117	.073-.160 ( 37%)	4.25	0.829	All species
3	0-9	(236%)	.000	.000-.000 (231%)	0.01	0.150	Bluegill
3	0-8	(220%)	.000	.000-.000 (220%)	0.01	0.179	Bullhead spp.
			**** NOT RECORDED ****				Carp
592	275-909	( 54%)	.061	.021-.100 ( 65%)	1.24	1.461	Channel catfish
			**** NOT RECORDED ****				Crappie spp.
			**** NOT RECORDED ****				Golden shiner
			**** NOT RECORDED ****				Green sunfish
50	0-111	(124%)	.001	.000-.002 (149%)	0.10	2.515	Largemouth bass
			**** NOT RECORDED ****				Redear sunfish
58	0-191	(231%)	.001	.000-.002 (236%)	0.12	12.972	Striped bass x Whit
			**** NOT RECORDED ****				Smallmouth bass
1315	571-2060	( 57%)	.054	.032-.076 ( 40%)	2.76	0.666	White crappie
5	0-15	(223%)	.000	.000-.000 (226%)	0.01	0.945	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
17822	15292-20352	( 14%)	.890	.771-1.008( 13%)	92.52	37.44	All species
504	243-766	( 52%)	.065	.012-.119 ( 82%)	2.62	1.06	Bluegill
15	0-47	(218%)	.001	.000-.002 (218%)	0.08	0.03	Bullhead spp.
5	0-18	(236%)	.000	.000-.001 (236%)	0.03	0.01	Carp
1174	365-1983	( 69%)	.109	.056-.161 ( 48%)	6.10	2.47	Channel catfish
9	0-23	(153%)	.000	.000-.001 (198%)	0.05	0.02	Crappie spp.
15	0-48	(231%)	.001	.000-.002 (231%)	0.08	0.03	Golden shiner
233	68-399	( 71%)	.022	.000-.049 (119%)	1.21	0.49	Green sunfish
11794	9974-13614	( 15%)	.496	.419-.572 ( 15%)	61.22	24.78	Largemouth bass
8	0-27	(236%)	.000	.000-.000 (236%)	0.04	0.02	Redear sunfish
121	63-178	( 48%)	.014	.000-.028 (100%)	0.63	0.25	Striped bass x Whit
102	0-325	(218%)	.008	.000-.025 (208%)	0.53	0.21	Smallmouth bass
3836	2455-5217	( 36%)	.174	.120-.227 ( 31%)	19.91	8.06	White crappie
5	0-16	(223%)	.000	.000-.000 (223%)	0.02	0.01	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
9301	7938-10665 ( 15%)	.419	.357-.481 ( 15%)	48.28	0.522	All species
39	13-65 ( 67%)	.005	.000-.009 ( 92%)	0.20	0.077	Bluegill
1	0-4 (218%)	.000	.000-.000 (218%)	0.01	0.081	Bullhead spp.
2	0-6 (231%)	.000	.000-.000 (236%)	0.01	0.341	Carp
424	261-588 ( 39%)	.046	.024-.068 ( 47%)	2.20	0.361	Channel catfish
1	0-3 (153%)	.000	.000-.000 (198%)	0.01	0.135	Crappie spp.
0	0-1 (236%)	.000	.000-.000 (231%)	0.00	0.023	Golden shiner
14	3-25 ( 79%)	.001	.000-.002 ( 98%)	0.07	0.059	Green sunfish
7862	6614-9109 ( 16%)	.324	.268-.379 ( 17%)	40.81	0.667	Largemouth bass
2	0-8 (236%)	.000	.000-.000 (231%)	0.01	0.288	Redear sunfish
103	26-179 ( 74%)	.010	.000-.025 (164%)	0.53	0.851	Striped bass x Whit
9	0-28 (205%)	.001	.000-.002 (185%)	0.05	0.090	Smallmouth bass
842	479-1204 ( 43%)	.033	.022-.044 ( 33%)	4.37	0.219	White crappie
2	0-7 (223%)	.000	.000-.000 (223%)	0.01	0.429	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
20506	17500-23512 ( 15%)	.923	.787-1.060 ( 15%)	43.08	1.151	All species
86	29-143 ( 67%)	.010	.001-.020 ( 92%)	0.18	0.170	Bluegill
3	0-8 (220%)	.000	.000-.000 (220%)	0.01	0.179	Bullhead spp.
4	0-13 (236%)	.000	.000-.000 (236%)	0.01	0.751	Carp
935	575-1296 ( 39%)	.102	.054-.150 ( 47%)	1.96	0.796	Channel catfish
3	0-7 (153%)	.000	.000-.000 (198%)	0.01	0.297	Crappie spp.
1	0-2 (236%)	.000	.000-.000 (236%)	0.00	0.050	Golden shiner
31	6-55 ( 79%)	.002	.000-.005 ( 98%)	0.06	0.131	Green sunfish
17332	14582-20082 ( 16%)	.713	.591-.836 ( 17%)	36.41	1.470	Largemouth bass
5	0-17 (236%)	.000	.000-.000 (236%)	0.01	0.635	Redear sunfish
227	58-395 ( 74%)	.021	.000-.055 (164%)	0.48	1.877	Striped bass x Whit
20	0-62 (205%)	.002	.000-.005 (185%)	0.04	0.198	Smallmouth bass
1855	1055-2655 ( 43%)	.072	.049-.096 ( 33%)	3.90	0.484	White crappie
5	0-15 (223%)	.000	.000-.000 (226%)	0.01	0.945	Yellow bullhead

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.3	4.0-4.6	( 8%)	0.2	9.8	257
SHORE	1.6	1.2-2.0	( 23%)	0.5	4.9	32
BOAT & SHORE	4.0	3.7-4.3	( 8%)	0.2	9.8	289
MILES TRAVELED	19.5	16.8-22.1	( 13%)	1	250	869
SUCCESS RATING (1-10)	4.2	4.0-4.4	( 4%)	1	10	867

\*160 samples were from split interviews of completed trips.  
29.4% of all 984 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 984 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	393	462	14							
SHORE INTERVIEWS	72	24	10	9						

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

1 ( 0.1%)	ANY	All species
8 ( 0.8%)	BLG	Bluegill
321 ( 32.6%)	BSS	Black bass spp.
100 ( 10.2%)	CCF	Channel catfish
16 ( 1.6%)	CRP	Crappie spp.
447 ( 45.4%)	LMB	Largemouth bass
91 ( 9.2%)	WHC	White crappie

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bluegill																
HARVEST	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	451	12	5	3	1	-	-	-	-	-	1	1	-	-	-	-
Bullhead spp.																
HARVEST	473	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	458	12	4	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	465	8	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Crappie spp.																
HARVEST	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	472	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Golden shiner																
HARVEST	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	473	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	459	9	6	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	470	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	140	90	99	78	37	15	4	6	2	-	-	2	1	-	-	-
Redear sunfish																
HARVEST	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	472	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass x White bass hybrid (Wiper)																
HARVEST	472	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	466	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	442	2	6	2	2	6	2	4	2	1	1	-	-	1	-	3
RELEASE	428	8	18	5	6	6	2	-	-	-	1	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 LAKE KAKUSHA  
 53 ACRES  
 REGION 1, DISTRICT 2

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 305/693 = 44.0%

NUMBER OF INTERVIEWS: 774

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	1112	785-1438 ( 29%)	21	15-27 ( 29%)	16%
	HOLIDAY	1425	1172-1677 ( 18%)	27	22-32 ( 18%)	36%
	TOTAL	2536	2124-2948 ( 16%)	48	40-56 ( 16%)	27%
SHORE	WEEKDAY	2388	1966-2810 ( 18%)	45	37-53 ( 18%)	17%
	HOLIDAY	2073	1767-2379 ( 15%)	39	33-45 ( 15%)	32%
	TOTAL	4460	3939-4982 ( 12%)	84	74-94 ( 12%)	24%
BOAT & SHORE	WEEKDAY	3499	2966-4033 ( 15%)	66	56-76 ( 15%)	17%
	HOLIDAY	3497	3101-3894 ( 11%)	66	59-73 ( 11%)	34%
	TOTAL	6997	6332-7661 ( 9%)	132	119-145 ( 9%)	25%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3355	2036-4675	( 39%)	.254	.164-.344 ( 35%)	156.44	63.31	All species
3	0-14	(318%)	.000	.000-.001 (318%)	0.15	0.06	Black bullhead
2219	1047-3390	( 53%)	.157	.070-.243 ( 55%)	103.43	41.86	Black crappie
105	24-186	( 77%)	.005	.001-.009 ( 82%)	4.89	1.98	Bluegill
737	483-991	( 34%)	.077	.044-.110 ( 43%)	34.35	13.90	Channel catfish
200	10-389	( 95%)	.010	.002-.018 ( 79%)	9.30	3.77	Golden shiner
			****	NOT RECORDED ****			Green sunfish
78	5-152	( 94%)	.005	.002-.007 ( 65%)	3.64	1.47	Largemouth bass
13	0-36	(185%)	.001	.000-.002 (181%)	0.60	0.24	White crappie
2	0-5	(257%)	.000	.000-.000 (257%)	0.07	0.03	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
881	630-1132	( 28%)	.078	.053-.104 ( 33%)	41.07	0.263	All species
3	0-12	(318%)	.000	.000-.001 (430%)	0.13	0.859	Black bullhead
285	136-434	( 52%)	.020	.009-.032 ( 56%)	13.30	0.129	Black crappie
16	3-29	( 83%)	.001	.000-.001 ( 89%)	0.74	0.151	Bluegill
480	296-665	( 38%)	.052	.028-.075 ( 46%)	22.39	0.652	Channel catfish
17	4-31	( 78%)	.001	.000-.002 ( 90%)	0.81	0.087	Golden shiner
			****	NOT RECORDED ****			Green sunfish
77	0-158	(104%)	.004	.001-.007 ( 72%)	3.60	0.987	Largemouth bass
1	0-3	(181%)	.000	.000-.000 (178%)	0.05	0.092	White crappie
1	0-3	(278%)	.000	.000-.000 (278%)	0.04	0.585	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
1942	1389-2495	( 28%)	.173	.116-.229 ( 33%)	36.64	0.579	All species
6	0-33	(430%)	.000	.000-.001 (318%)	0.12	1.893	Black bullhead
629	301-957	( 52%)	.045	.020-.070 ( 56%)	11.87	0.283	Black crappie
35	6-64	( 83%)	.002	.000-.003 ( 89%)	0.66	0.333	Bluegill
1059	652-1465	( 38%)	.114	.062-.166 ( 46%)	19.98	1.437	Channel catfish
38	9-68	( 78%)	.002	.000-.004 ( 90%)	0.73	0.193	Golden shiner
			****	NOT RECORDED ****			Green sunfish
170	0-348	(104%)	.009	.003-.016 ( 72%)	3.21	2.176	Largemouth bass
3	0-7	(181%)	.000	.000-.000 (178%)	0.05	0.202	White crappie
2	0-7	(278%)	.000	.000-.000 (278%)	0.04	1.290	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
14263	10748-17778	( 25%)	1.056	.845-1.267 ( 20%)	664.97	269.11	All species
3	0-14	(318%)	.000	.000-.001 (318%)	0.15	0.06	Black bullhead
2864	1560-4169	( 46%)	.204	.113-.296 ( 45%)	133.54	54.04	Black crappie
7952	5584-10320	( 30%)	.528	.372-.685 ( 30%)	370.75	150.04	Bluegill
1464	1098-1831	( 25%)	.148	.097-.200 ( 35%)	68.27	27.63	Channel catfish
284	80-487	( 72%)	.029	.007-.050 ( 75%)	13.23	5.35	Golden shiner
3	0-8	(209%)	.000	.000-.000 (209%)	0.13	0.05	Green sunfish
1620	1027-2213	( 37%)	.141	.102-.180 ( 28%)	75.52	30.56	Largemouth bass
53	0-111	(110%)	.004	.000-.011 (138%)	2.47	1.00	White crappie
11	0-28	(150%)	.001	.000-.002 (162%)	0.52	0.21	Yellow bullhead
8	0-35	(318%)	.000	.000-.001 (318%)	0.39	0.16	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
2188	1708-2668	( 22%)	.183	.148-.219 ( 19%)	102.01	0.153	All species
3	0-12	(318%)	.000	.000-.001 (430%)	0.13	0.859	Black bullhead
324	171-477	( 47%)	.024	.012-.035 ( 49%)	15.11	0.113	Black crappie
476	323-629	( 32%)	.034	.020-.048 ( 41%)	22.18	0.060	Bluegill
622	426-819	( 32%)	.066	.040-.092 ( 39%)	29.02	0.425	Channel catfish
27	9-45	( 66%)	.003	.001-.006 ( 81%)	1.27	0.096	Golden shiner
0	0-0	(209%)	.000	.000-.000 (210%)	0.00	0.011	Green sunfish
725	356-1095	( 51%)	.056	.038-.074 ( 32%)	33.82	0.448	Largemouth bass
3	0-7	(102%)	.000	.000-.000 (100%)	0.15	0.062	White crappie
7	0-16	(135%)	.000	.000-.001 (169%)	0.31	0.605	Yellow bullhead
0	0-1	(318%)	.000	.000-.000 (430%)	0.01	0.019	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
4824	3766-5882	( 22%)	.404	.325-.482 ( 19%)	91.01	0.338	All species
6	0-33	(430%)	.000	.000-.001 (318%)	0.12	1.893	Black bullhead
715	378-1051	( 47%)	.052	.026-.077 ( 49%)	13.48	0.249	Black crappie
1049	712-1386	( 32%)	.074	.044-.105 ( 41%)	19.79	0.132	Bluegill
1372	940-1805	( 32%)	.145	.088-.202 ( 39%)	25.89	0.937	Channel catfish
60	20-99	( 66%)	.007	.001-.013 ( 81%)	1.13	0.211	Golden shiner
0	0-0	(210%)	.000	.000-.000 (209%)	0.00	0.024	Green sunfish
1599	785-2414	( 51%)	.124	.084-.164 ( 32%)	30.18	0.987	Largemouth bass
7	0-15	(102%)	.001	.000-.001 (100%)	0.14	0.137	White crappie
15	0-35	(135%)	.001	.000-.003 (169%)	0.28	1.334	Yellow bullhead
0	0-2	(430%)	.000	.000-.000 (318%)	0.01	0.043	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	2.9	2.6-3.2 ( 11%)	0.2	10.4	127
SHORE	1.7	1.5-1.9 ( 13%)	0.1	5.8	118
BOAT & SHORE	2.3	2.1-2.6 ( 9%)	0.1	10.4	245
MILES TRAVELED	11.8	9.9-13.8 ( 16%)	1	400	679
SUCCESS RATING (1-10)	4.1	3.8-4.3 ( 5%)	1	10	678

\*50 samples were from split interviews of completed trips.  
33.9% of all 722 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 10 out of 722 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	40	81	14							
SHORE INTERVIEWS	335	181	47	19	3	1	1			

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

317 ( 43.9%)	ANY	All species
116 ( 16.1%)	BLC	Black crappie
19 ( 2.6%)	BLG	Bluegill
5 ( 0.7%)	CAT	Unidentified catfish
151 ( 20.9%)	CCF	Channel catfish
8 ( 1.1%)	CRP	Crappie spp.
96 ( 13.3%)	LMB	Largemouth bass
2 ( 0.3%)	MUE	Muskellunge
8 ( 1.1%)	WHC	White crappie



Table 11. Number of anglers with a given harvest &amp; 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	426	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	415	2	2	1	-	1	1	-	-	3	-	-	1	-	-	1
RELEASE	417	6	-	2	2	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	425	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-
RELEASE	298	53	22	16	2	7	8	3	4	4	6	-	-	-	-	4
Channel catfish																
HARVEST	364	20	19	14	1	4	5	-	-	-	-	-	-	-	-	-
RELEASE	348	43	19	7	5	-	2	-	2	-	-	-	-	-	1	-
Golden shiner																
HARVEST	425	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-
RELEASE	426	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	410	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	337	45	22	8	6	2	2	1	2	2	-	-	-	-	-	-
White crappie																
HARVEST	425	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	422	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	425	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	423	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 LAKE LE-AQUA-NA  
 43 ACRES  
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 294/693 = 42.4%

NUMBER OF INTERVIEWS: 2068

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	1804	1373-2236 ( 24%)	42	32-52 ( 24%)	18%
	HOLIDAY	2696	2376-3016 ( 12%)	62	55-69 ( 12%)	38%
	TOTAL	4501	3963-5038 ( 12%)	104	91-116 ( 12%)	30%
SHORE	WEEKDAY	8405	7447-9363 ( 11%)	194	172-216 ( 11%)	19%
	HOLIDAY	8528	7598-9459 ( 11%)	197	175-218 ( 11%)	37%
	TOTAL	16933	15598-18269 ( 8%)	390	359-421 ( 8%)	28%
BOAT & SHORE	WEEKDAY	10209	9158-11260 ( 10%)	235	211-259 ( 10%)	19%
	HOLIDAY	11225	10241-12209 ( 9%)	259	236-281 ( 9%)	37%
	TOTAL	21434	19994-22873 ( 7%)	494	461-527 ( 7%)	29%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
15260	13419-17102	( 12%)	.480	.412-.547 ( 14%)	868.85	351.62	All species
103	61-144	( 40%)	.002	.001-.003 ( 52%)	5.84	2.36	Black bullhead
6867	5725-8008	( 17%)	.236	.191-.281 ( 19%)	390.97	158.22	Black crappie
6708	5635-7782	( 16%)	.186	.146-.226 ( 21%)	381.95	154.57	Bluegill
1	0-5	(216%)	.000	.000-.000 (216%)	0.08	0.03	Carp
1125	908-1341	( 19%)	.044	.028-.060 ( 37%)	64.03	25.91	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
3	0-11	(278%)	.000	.000-.000 (278%)	0.16	0.07	Golden shiner
22	3-41	( 85%)	.000	.000-.000 (113%)	1.27	0.51	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
180	116-243	( 35%)	.005	.002-.008 ( 53%)	10.22	4.14	Largemouth bass
2	0-6	(257%)	.000	.000-.000 (257%)	0.10	0.04	Northern pike
			****	NOT RECORDED ****			Smallmouth bass
4	0-11	(157%)	.002	.000-.007 (230%)	0.25	0.10	Walleye
245	158-333	( 36%)	.004	.002-.005 ( 40%)	13.98	5.66	Warmouth

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
2208	1906-2511	( 14%)	.078	.057-.100 ( 28%)	125.74	0.145	All species
55	32-78	( 42%)	.001	.000-.001 ( 48%)	3.13	0.536	Black bullhead
647	539-756	( 17%)	.023	.018-.027 ( 19%)	36.86	0.094	Black crappie
567	480-654	( 15%)	.015	.012-.019 ( 20%)	32.30	0.085	Bluegill
0	0-2	(214%)	.000	.000-.000 (214%)	0.03	0.341	Carp
784	549-1019	( 30%)	.028	.016-.039 ( 41%)	44.62	0.697	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
0	0-1	(278%)	.000	.000-.000 (278%)	0.02	0.134	Golden shiner
2	0-3	( 83%)	.000	.000-.000 (104%)	0.10	0.075	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
110	68-153	( 39%)	.003	.001-.006 ( 63%)	6.27	0.613	Largemouth bass
1	0-5	(257%)	.000	.000-.000 (257%)	0.08	0.821	Northern pike
			****	NOT RECORDED ****			Smallmouth bass
16	0-42	(156%)	.008	.000-.025 (228%)	0.93	3.737	Walleye
25	14-35	( 44%)	.000	.000-.001 ( 46%)	1.40	0.100	Warmouth

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
4869	4202-5535	( 14%)	.172	.125-.220 ( 28%)	112.18	0.319	All species
121	71-172	( 42%)	.002	.001-.003 ( 48%)	2.79	1.182	Black bullhead
1427	1188-1666	( 17%)	.050	.041-.060 ( 19%)	32.88	0.208	Black crappie
1251	1059-1443	( 15%)	.034	.027-.041 ( 20%)	28.82	0.186	Bluegill
1	0-3	(216%)	.000	.000-.000 (214%)	0.03	0.751	Carp
1728	1210-2246	( 30%)	.061	.036-.086 ( 41%)	39.81	1.536	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
1	0-3	(278%)	.000	.000-.000 (278%)	0.02	0.295	Golden shiner
4	1-7	( 83%)	.000	.000-.000 (104%)	0.08	0.166	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
243	149-336	( 39%)	.007	.003-.012 ( 63%)	5.59	1.352	Largemouth bass
3	0-11	(257%)	.000	.000-.000 (245%)	0.07	1.810	Northern pike
			****	NOT RECORDED ****			Smallmouth bass
36	0-92	(156%)	.017	.000-.055 (228%)	0.83	8.239	Walleye
54	30-78	( 44%)	.001	.000-.001 ( 46%)	1.25	0.220	Warmouth

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
32861	29647-36076	( 10%)	1.119	.965-1.273 ( 14%)	1870.97	757.17	All species
141	96-185	( 32%)	.002	.001-.003 ( 40%)	8.01	3.24	Black bullhead
11598	10041-13154	( 13%)	.426	.359-.492 ( 16%)	660.32	267.23	Black crappie
14429	12564-16294	( 13%)	.467	.325-.609 ( 30%)	821.53	332.47	Bluegill
13	0-29	(127%)	.000	.000-.001 (181%)	0.73	0.30	Carp
1592	1339-1844	( 16%)	.060	.043-.077 ( 28%)	90.63	36.68	Channel catfish
5	0-18	(236%)	.000	.000-.000 (245%)	0.30	0.12	Crappie spp.
14	0-29	(117%)	.000	.000-.001 (138%)	0.77	0.31	Golden shiner
22	3-41	( 85%)	.000	.000-.000 (113%)	1.27	0.51	Green sunfish
4	0-13	(208%)	.001	.000-.002 (208%)	0.24	0.10	Gizzard shad
4392	3763-5021	( 14%)	.143	.118-.167 ( 17%)	250.05	101.20	Largemouth bass
133	86-179	( 35%)	.006	.001-.011 ( 87%)	7.56	3.06	Northern pike
5	0-15	(169%)	.000	.000-.000 (163%)	0.31	0.13	Smallmouth bass
31	12-51	( 61%)	.003	.000-.008 (195%)	1.79	0.72	Walleye
482	308-656	( 36%)	.011	.006-.015 ( 41%)	27.45	11.11	Warmouth

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3937	3531-4343	( 10%)	.145	.122-.169 ( 16%)	224.17	0.120	All species
69	45-92	( 34%)	.001	.001-.002 ( 40%)	3.91	0.489	Black bullhead
994	856-1132	( 14%)	.037	.031-.043 ( 16%)	56.58	0.086	Black crappie
822	712-933	( 13%)	.026	.016-.036 ( 38%)	46.83	0.057	Bluegill
5	0-12	(118%)	.000	.000-.000 (160%)	0.30	0.418	Carp
890	654-1127	( 27%)	.032	.020-.043 ( 36%)	50.69	0.559	Channel catfish
0	0-0	(236%)	.000	.000-.000 (245%)	0.00	0.009	Crappie spp.
1	0-2	(138%)	.000	.000-.000 (159%)	0.05	0.065	Golden shiner
2	0-3	( 83%)	.000	.000-.000 (104%)	0.10	0.075	Green sunfish
1	0-2	(208%)	.000	.000-.000 (209%)	0.03	0.126	Gizzard shad
1025	861-1189	( 16%)	.038	.029-.047 ( 23%)	58.34	0.233	Largemouth bass
63	35-92	( 45%)	.002	.001-.004 ( 62%)	3.61	0.478	Northern pike
1	0-5	(275%)	.000	.000-.000 (301%)	0.08	0.246	Smallmouth bass
25	0-51	(104%)	.008	.000-.025 (224%)	1.42	0.792	Walleye
39	22-56	( 43%)	.001	.000-.001 ( 50%)	2.24	0.081	Warmouth

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
8680	7785-9575	( 10%)	.321	.269-.372 ( 16%)	200.00	0.264	All species
152	100-203	( 34%)	.003	.002-.004 ( 40%)	3.49	1.077	Black bullhead
2191	1886-2496	( 14%)	.082	.069-.095 ( 16%)	50.48	0.189	Black crappie
1813	1570-2056	( 13%)	.058	.036-.080 ( 38%)	41.78	0.126	Bluegill
12	0-26	(118%)	.000	.000-.000 (160%)	0.27	0.921	Carp
1963	1441-2484	( 27%)	.070	.045-.094 ( 36%)	45.22	1.233	Channel catfish
0	0-0	(236%)	.000	.000-.000 (245%)	0.00	0.019	Crappie spp.
2	0-5	(138%)	.000	.000-.000 (159%)	0.04	0.144	Golden shiner
4	1-7	( 83%)	.000	.000-.000 (104%)	0.08	0.166	Green sunfish
1	0-4	(208%)	.000	.000-.000 (209%)	0.03	0.278	Gizzard shad
2259	1897-2620	( 16%)	.084	.065-.103 ( 23%)	52.05	0.514	Largemouth bass
140	77-202	( 45%)	.005	.002-.008 ( 62%)	3.22	1.054	Northern pike
3	0-11	(275%)	.000	.000-.001 (301%)	0.07	0.543	Smallmouth bass
55	0-112	(104%)	.017	.000-.055 (224%)	1.26	1.745	Walleye
87	49-124	( 43%)	.002	.001-.003 ( 50%)	1.99	0.180	Warmouth

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.5	3.2-3.7	( 8%)	0.5	10.0	180
SHORE	1.7	1.6-1.8	( 7%)	0.3	6.2	283
BOAT & SHORE	2.4	2.2-2.5	( 6%)	0.3	10.0	463
MILES TRAVELED	31.9	30.2-33.5	( 5%)	1	600	1685
SUCCESS RATING (1-10)	3.1	3.0-3.2	( 3%)	1	10	1649

\*165 samples were from split interviews of completed trips.  
24.3% of all 1903 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 25 out of 1903 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	55	109	34	15	1					
SHORE INTERVIEWS	625	669	256	82	42	8	3	1		3

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

437 ( 23.0%)	ANY	All species
1 ( 0.1%)	BLB	Black bullhead
7 ( 0.4%)	BLC	Black crappie
303 ( 15.9%)	BLG	Bluegill
361 ( 19.0%)	CCF	Channel catfish
475 ( 25.0%)	CRP	Crappie spp.
273 ( 14.3%)	LMB	Largemouth bass
25 ( 1.3%)	NOP	Northern pike
10 ( 0.5%)	SUN	Sunfish spp. excluding Crappie and Black Bass
11 ( 0.6%)	WAE	Walleye

Table 11. Number of anglers with a given harvest &amp; 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	905	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	900	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	731	28	33	11	18	14	18	6	4	10	29	2	1	4	1	-
RELEASE	679	102	23	20	20	4	13	13	9	1	2	3	4	8	1	8
Bluegill																
HARVEST	774	66	25	5	13	4	2	5	-	6	7	1	1	-	-	1
RELEASE	650	109	60	39	15	10	8	3	3	-	5	-	4	1	-	3
Carp																
HARVEST	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	908	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	847	49	11	2	-	-	1	-	-	-	-	-	-	-	-	-
RELEASE	874	33	-	3	-	-	-	-	-	-	-	-	-	-	-	-
Golden shiner																
HARVEST	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	909	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	909	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	898	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	651	160	53	13	12	8	4	-	3	2	1	-	-	-	-	3
Northern pike																
HARVEST	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	900	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	910	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	909	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	907	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	905	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	899	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	900	6	-	4	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 LINCOLN TRAIL LAKE  
 137 ACRES  
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 297/693 = 42.9%

NUMBER OF INTERVIEWS: 1404

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	7701	6785-8617 ( 12%)	56	50-63 ( 12%)	20%
	HOLIDAY	7305	6369-8240 ( 13%)	53	47-60 ( 13%)	44%
	TOTAL	15005	13696-16315 ( 9%)	110	100-119 ( 9%)	32%
SHORE	WEEKDAY	3621	2916-4326 ( 19%)	26	21-32 ( 19%)	12%
	HOLIDAY	2634	2177-3091 ( 17%)	19	16-23 ( 17%)	24%
	TOTAL	6255	5415-7095 ( 13%)	46	40-52 ( 13%)	17%
BOAT & SHORE	WEEKDAY	11322	10166-12478 ( 10%)	83	74-91 ( 10%)	17%
	HOLIDAY	9938	8898-10979 ( 10%)	73	65-80 ( 10%)	39%
	TOTAL	21260	19705-22816 ( 7%)	156	144-167 ( 7%)	27%



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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
15026	12581-17471 ( 16%)		.537	.430-.645 ( 20%)	271.62	109.92	All species
			****	NOT RECORDED			Black bullhead
1967	1159-2775 ( 41%)		.138	.072-.204 ( 48%)	35.56	14.39	Black crappie
8562	6697-10427 ( 22%)		.268	.189-.348 ( 30%)	154.76	62.63	Bluegill
439	253-625 ( 42%)		.012	.007-.018 ( 46%)	7.93	3.21	Bluegill x Redear s
818	604-1032 ( 26%)		.023	.014-.033 ( 41%)	14.79	5.99	Channel catfish
137	54-219 ( 60%)		.003	.001-.006 ( 62%)	2.47	1.00	Redear sunfish x Gr
540	0-1119 (107%)		.013	.005-.022 ( 65%)	9.76	3.95	Largemouth bass
			****	NOT RECORDED			Rock bass
1762	1255-2268 ( 29%)		.050	.031-.068 ( 38%)	31.85	12.89	Redear sunfish
			****	NOT RECORDED			Smallmouth bass
87	31-143 ( 64%)		.002	.000-.004 (126%)	1.58	0.64	Warmouth
713	216-1211 ( 70%)		.027	.013-.040 ( 50%)	12.89	5.22	White crappie
1	0-5 (218%)		.000	.000-.000 (216%)	0.03	0.01	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
3412	2876-3948 ( 16%)		.125	.101-.150 ( 20%)	61.68	0.227	All species
			****	NOT RECORDED			Black bullhead
450	270-630 ( 40%)		.030	.016-.045 ( 47%)	8.13	0.229	Black crappie
1422	1084-1759 ( 24%)		.045	.031-.060 ( 32%)	25.70	0.166	Bluegill
103	54-153 ( 48%)		.003	.002-.004 ( 48%)	1.87	0.236	Bluegill x Redear s
577	419-735 ( 27%)		.020	.008-.032 ( 61%)	10.43	0.705	Channel catfish
31	11-50 ( 63%)		.001	.000-.001 ( 67%)	0.56	0.226	Redear sunfish x Gr
232	4-460 ( 98%)		.006	.002-.010 ( 62%)	4.19	0.430	Largemouth bass
			****	NOT RECORDED			Rock bass
444	320-568 ( 28%)		.013	.008-.018 ( 37%)	8.03	0.252	Redear sunfish
			****	NOT RECORDED			Smallmouth bass
17	6-28 ( 63%)		.000	.000-.001 (164%)	0.31	0.199	Warmouth
135	60-209 ( 55%)		.006	.003-.009 ( 54%)	2.44	0.189	White crappie
1	0-3 (218%)		.000	.000-.000 (218%)	0.02	0.585	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
7522	6341-8704	( 16%)	.277	.222-.331 ( 20%)	55.03	0.501	All species
			****	NOT RECORDED			Black bullhead
992	595-1389	( 40%)	.067	.035-.099 ( 47%)	7.25	0.504	Black crappie
3135	2391-3879	( 24%)	.100	.068-.132 ( 32%)	22.93	0.366	Bluegill
228	120-337	( 48%)	.007	.003-.010 ( 48%)	1.67	0.520	Bluegill x Redear s
1272	923-1620	( 27%)	.043	.017-.070 ( 61%)	9.30	1.554	Channel catfish
68	25-111	( 63%)	.002	.001-.003 ( 67%)	0.50	0.498	Redear sunfish x Gr
511	9-1014	( 98%)	.014	.005-.022 ( 62%)	3.74	0.947	Largemouth bass
			****	NOT RECORDED			Rock bass
979	705-1253	( 28%)	.029	.019-.040 ( 37%)	7.16	0.556	Redear sunfish
			****	NOT RECORDED			Smallmouth bass
38	14-62	( 63%)	.001	.000-.003 (164%)	0.28	0.438	Warmouth
297	133-462	( 55%)	.013	.006-.021 ( 54%)	2.18	0.417	White crappie
2	0-6	(216%)	.000	.000-.000 (218%)	0.01	1.290	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
35865	30013-41717	( 16%)	1.189	.977-1.401( 18%)	648.30	262.36	All species
9	0-22	(140%)	.000	.000-.001 (149%)	0.17	0.07	Black bullhead
2564	1684-3443	( 34%)	.175	.102-.248 ( 42%)	46.34	18.76	Black crappie
21617	16815-26420	( 22%)	.629	.473-.786 ( 25%)	390.76	158.14	Bluegill
476	286-666	( 40%)	.013	.007-.019 ( 45%)	8.60	3.48	Bluegill x Redear s
1611	1212-2010	( 25%)	.045	.030-.060 ( 33%)	29.11	11.78	Channel catfish
146	63-230	( 57%)	.004	.001-.006 ( 64%)	2.65	1.07	Redear sunfish x Gr
5186	3573-6800	( 31%)	.199	.058-.341 ( 71%)	93.75	37.94	Largemouth bass
15	0-63	(318%)	.002	.000-.008 (430%)	0.27	0.11	Rock bass
2401	1730-3071	( 28%)	.065	.045-.086 ( 32%)	43.39	17.56	Redear sunfish
11	0-36	(245%)	.000	.000-.001 (245%)	0.19	0.08	Smallmouth bass
182	96-268	( 47%)	.005	.002-.008 ( 65%)	3.29	1.33	Warmouth
1646	638-2655	( 61%)	.051	.027-.076 ( 48%)	29.75	12.04	White crappie
1	0-5	(218%)	.000	.000-.000 (216%)	0.03	0.01	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
7363	5918-8809	( 20%)	.290	.158-.422 ( 45%)	133.10	0.205	All species
4	0-12	(158%)	.000	.000-.000 (169%)	0.08	0.489	Black bullhead
512	329-696	( 36%)	.033	.019-.048 ( 44%)	9.26	0.200	Black crappie
2040	1623-2457	( 20%)	.063	.046-.080 ( 27%)	36.87	0.094	Bluegill
106	57-156	( 47%)	.003	.002-.004 ( 48%)	1.92	0.224	Bluegill x Redear s
908	670-1146	( 26%)	.029	.015-.042 ( 47%)	16.41	0.564	Channel catfish
32	13-52	( 61%)	.001	.000-.002 ( 69%)	0.58	0.220	Redear sunfish x Gr
2985	1653-4316	( 45%)	.136	.004-.267 ( 97%)	53.95	0.575	Largemouth bass
1	0-5	(318%)	.000	.000-.001 (430%)	0.02	0.079	Rock bass
532	395-669	( 26%)	.016	.011-.020 ( 31%)	9.61	0.222	Redear sunfish
0	0-1	(236%)	.000	.000-.000 (245%)	0.00	0.016	Smallmouth bass
33	14-51	( 58%)	.001	.000-.001 ( 82%)	0.59	0.179	Warmouth
209	103-314	( 51%)	.008	.004-.012 ( 48%)	3.77	0.127	White crappie
1	0-3	(218%)	.000	.000-.000 (218%)	0.02	0.585	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
16233	13046-19420	( 20%)	.639	.348-.929 ( 45%)	118.75	0.453	All species
10	0-26	(158%)	.000	.000-.001 (169%)	0.07	1.077	Black bullhead
1129	724-1534	( 36%)	.074	.041-.106 ( 44%)	8.26	0.440	Black crappie
4497	3577-5417	( 20%)	.139	.101-.176 ( 27%)	32.90	0.208	Bluegill
235	125-344	( 47%)	.007	.003-.010 ( 48%)	1.72	0.493	Bluegill x Redear s
2002	1477-2526	( 26%)	.063	.034-.093 ( 47%)	14.64	1.243	Channel catfish
71	28-114	( 61%)	.002	.001-.003 ( 69%)	0.52	0.486	Redear sunfish x Gr
6580	3644-9516	( 45%)	.299	.010-.589 ( 97%)	48.14	1.269	Largemouth bass
3	0-11	(318%)	.000	.000-.001 (318%)	0.02	0.174	Rock bass
1173	870-1475	( 26%)	.034	.024-.045 ( 31%)	8.58	0.488	Redear sunfish
0	0-1	(245%)	.000	.000-.000 (236%)	0.00	0.034	Smallmouth bass
72	31-113	( 58%)	.002	.000-.003 ( 82%)	0.53	0.395	Warmouth
460	227-693	( 51%)	.018	.010-.027 ( 48%)	3.37	0.279	White crappie
2	0-6	(216%)	.000	.000-.000 (218%)	0.01	1.290	Yellow bullhead

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.5	4.3-4.7	( 5%)	0.5	12.3	538
SHORE	2.6	2.0-3.2	( 22%)	0.2	12.0	37
BOAT & SHORE	4.4	4.2-4.6	( 5%)	0.2	12.3	575
MILES TRAVELED	61.9	53.0-70.8	( 14%)	2	2500	895
SUCCESS RATING (1-10)	4.2	4.0-4.4	( 5%)	1	10	890

\*385 samples were from split interviews of completed trips.

58.7% of all 980 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 980 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	193	379	74	11			1		2	
SHORE INTERVIEWS	112	127	39	26	9	5	1	1		

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

301 ( 30.7%)	ANY	All species
200 ( 20.4%)	BLG	Bluegill
2 ( 0.2%)	BSS	Black bass spp.
51 ( 5.2%)	CCF	Channel catfish
133 ( 13.6%)	CRP	Crappie spp.
171 ( 17.4%)	LMB	Largemouth bass
5 ( 0.5%)	RSF	Redear sunfish
117 ( 11.9%)	SUN	Sunfish spp. excluding Crappie and Black Bass

Table 11. Number of anglers with a given harvest &amp; 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	1091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1087	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1035	25	10	5	2	2	2	1	4	-	-	-	-	-	-	5
RELEASE	1051	18	8	2	1	-	-	1	4	-	4	-	-	-	-	2
Bluegill																
HARVEST	726	50	57	59	29	20	24	11	18	18	11	12	11	10	5	30
RELEASE	541	170	79	54	24	31	41	5	22	12	25	-	11	6	11	59
Bluegill x Redear sunfish hybrid																
HARVEST	1029	40	10	6	-	3	1	2	-	-	-	-	-	-	-	-
RELEASE	1088	-	1	-	-	-	-	2	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	923	111	31	10	6	3	7	-	-	-	-	-	-	-	-	-
RELEASE	965	78	21	17	5	-	2	-	-	-	1	1	-	-	-	1
Flathead catfish																
HARVEST	1091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1089	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish x Green sunfish hybrid																
HARVEST	1057	27	7	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1089	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1037	39	9	5	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	712	173	55	39	23	14	18	6	6	8	4	2	3	7	1	20
Redear sunfish																
HARVEST	937	79	21	12	6	12	6	-	7	4	1	-	-	2	-	4
RELEASE	1021	33	20	10	1	1	-	3	-	-	2	-	-	-	-	-
Warmouth																
HARVEST	1070	12	6	-	2	1	-	-	-	-	-	-	-	-	-	-
RELEASE	1057	29	3	2	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1047	27	8	-	2	-	-	1	2	-	2	-	-	2	-	-
RELEASE	1050	29	1	-	-	2	-	-	-	-	3	2	-	-	-	4
Yellow bullhead																
HARVEST	1089	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 MERMET LAKE  
 439 ACRES  
 REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/28/2004  
 Year periods stratified.  
 Fishing modes (boat vs. shore) stratified.  
 Day types (weekday vs. weekend/holiday) stratified.  
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 293/684 = 42.8%

NUMBER OF INTERVIEWS: 1908

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	6937	5764-8110 ( 17%)	16	13-18 ( 17%)	19%
	HOLIDAY	5136	2941-7332 ( 43%)	12	7-17 ( 43%)	45%
	TOTAL	12073	9816-14330 ( 19%)	28	22-33 ( 19%)	30%
SHORE	WEEKDAY	5695	4919-6471 ( 14%)	13	11-15 ( 14%)	26%
	HOLIDAY	3691	3091-4291 ( 16%)	8	7-10 ( 16%)	51%
	TOTAL	9386	8406-10367 ( 10%)	21	19-24 ( 10%)	36%
BOAT & SHORE	WEEKDAY	12632	11276-13988 ( 11%)	29	26-32 ( 11%)	22%
	HOLIDAY	8827	6682-10973 ( 24%)	20	15-25 ( 24%)	47%
	TOTAL	21459	19041-23878 ( 11%)	49	43-54 ( 11%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
15267	13136-17398	( 14%)	.424	.369-.480 ( 13%)	85.93	34.78	All species
1	0-4	(318%)	.000	.000-.000 (318%)	0.01	0.00	Black bullhead
4368	3185-5550	( 27%)	.107	.080-.134 ( 25%)	24.58	9.95	Black crappie
3745	3049-4441	( 19%)	.113	.090-.136 ( 20%)	21.08	8.53	Bluegill
			****	NOT RECORDED ****			Bowfin
			****	NOT RECORDED ****			Carp
2174	1759-2590	( 19%)	.092	.070-.114 ( 24%)	12.24	4.95	Channel catfish
11	0-40	(257%)	.000	.000-.001 (257%)	0.06	0.03	Crappie spp.
18	2-34	( 88%)	.000	.000-.001 (102%)	0.10	0.04	Flathead catfish
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
356	95-616	( 73%)	.008	.004-.011 ( 46%)	2.00	0.81	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
12	0-31	(165%)	.000	.000-.001 (227%)	0.07	0.03	Longear sunfish
425	206-644	( 52%)	.011	.005-.017 ( 55%)	2.39	0.97	Redear sunfish
			****	NOT RECORDED ****			Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
49	14-85	( 72%)	.002	.000-.005 (126%)	0.28	0.11	Warmouth
4062	2736-5387	( 33%)	.088	.053-.124 ( 40%)	22.86	9.25	White crappie
47	7-86	( 85%)	.002	.000-.006 (144%)	0.26	0.11	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
5535	4809-6261	( 13%)	.157	.137-.177 ( 13%)	31.15	0.363	All species
1	0-4	(430%)	.000	.000-.000 (430%)	0.00	0.785	Black bullhead
1397	1010-1784	( 28%)	.034	.025-.042 ( 26%)	7.86	0.320	Black crappie
891	718-1064	( 19%)	.026	.021-.032 ( 21%)	5.02	0.238	Bluegill
			****	NOT RECORDED ****			Bowfin
			****	NOT RECORDED ****			Carp
1618	1295-1941	( 20%)	.061	.047-.075 ( 23%)	9.11	0.744	Channel catfish
2	0-8	(257%)	.000	.000-.000 (245%)	0.01	0.204	Crappie spp.
29	4-55	( 88%)	.000	.000-.001 ( 99%)	0.16	1.631	Flathead catfish
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
356	95-617	( 73%)	.008	.004-.011 ( 46%)	2.00	1.000	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
2	0-7	(183%)	.000	.000-.000 (236%)	0.01	0.198	Longear sunfish
137	69-204	( 50%)	.003	.002-.005 ( 53%)	0.77	0.321	Redear sunfish
			****	NOT RECORDED ****			Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
15	4-26	( 72%)	.001	.000-.002 (148%)	0.08	0.303	Warmouth
1066	698-1434	( 35%)	.022	.014-.031 ( 38%)	6.00	0.263	White crappie
20	4-36	( 82%)	.001	.000-.002 (140%)	0.11	0.429	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
12202	10601-13803	( 13%)	.346	.301-.391 ( 13%)	27.80	0.799	All species
2	0-7	(318%)	.000	.000-.000 (318%)	0.00	1.730	Black bullhead
3080	2227-3933	( 28%)	.074	.055-.093 ( 26%)	7.02	0.705	Black crappie
1965	1584-2347	( 19%)	.058	.046-.070 ( 21%)	4.48	0.525	Bluegill
			****	NOT RECORDED ****			Bowfin
			****	NOT RECORDED ****			Carp
3568	2855-4280	( 20%)	.134	.103-.166 ( 23%)	8.13	1.641	Channel catfish
5	0-17	(245%)	.000	.000-.000 (257%)	0.01	0.449	Crappie spp.
64	8-120	( 88%)	.001	.000-.002 ( 99%)	0.15	3.595	Flathead catfish
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
785	209-1360	( 73%)	.017	.009-.024 ( 46%)	1.79	2.205	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
5	0-14	(183%)	.000	.000-.001 (236%)	0.01	0.437	Longear sunfish
301	152-451	( 50%)	.007	.004-.011 ( 53%)	0.69	0.709	Redear sunfish
			****	NOT RECORDED ****			Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
33	9-57	( 72%)	.002	.000-.005 (148%)	0.07	0.668	Warmouth
2351	1540-3162	( 35%)	.049	.031-.068 ( 38%)	5.36	0.579	White crappie
44	8-80	( 82%)	.002	.000-.005 (140%)	0.10	0.945	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
30612	26771-34453	( 13%)	.828	.728-.928 ( 12%)	172.31	69.73	All species
1	0-4	(318%)	.000	.000-.000 (318%)	0.01	0.00	Black bullhead
5027	3730-6324	( 26%)	.124	.093-.154 ( 25%)	28.29	11.45	Black crappie
15265	12847-17684	( 16%)	.424	.352-.496 ( 17%)	85.92	34.77	Bluegill
40	22-58	( 44%)	.001	.000-.002 ( 55%)	0.23	0.09	Bowfin
4	0-17	(318%)	.000	.000-.001 (430%)	0.02	0.01	Carp
2648	2184-3112	( 18%)	.110	.086-.134 ( 22%)	14.91	6.03	Channel catfish
19	0-49	(161%)	.000	.000-.001 (174%)	0.11	0.04	Crappie spp.
18	2-34	( 88%)	.000	.000-.001 (102%)	0.10	0.04	Flathead catfish
4	0-17	(278%)	.000	.000-.001 (278%)	0.03	0.01	Grass carp
13	0-41	(211%)	.000	.000-.001 (209%)	0.07	0.03	Green sunfish
3	0-9	(182%)	.000	.000-.000 (186%)	0.02	0.01	Gizzard shad
1409	902-1916	( 36%)	.030	.022-.038 ( 25%)	7.93	3.21	Largemouth bass
17	0-37	(118%)	.001	.000-.002 (156%)	0.10	0.04	Longnose gar
12	0-31	(165%)	.000	.000-.001 (227%)	0.07	0.03	Longear sunfish
465	242-687	( 48%)	.012	.006-.018 ( 52%)	2.62	1.06	Redear sunfish
2	0-9	(245%)	.000	.000-.000 (236%)	0.01	0.01	Shortnose gar
3	0-13	(430%)	.000	.000-.000 (318%)	0.01	0.01	Threadfin shad
190	114-266	( 40%)	.008	.003-.012 ( 55%)	1.07	0.43	Warmouth
5394	3774-7013	( 30%)	.114	.078-.149 ( 32%)	30.36	12.29	White crappie
78	30-127	( 62%)	.004	.000-.007 ( 95%)	0.44	0.18	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
7355	6488-8221 ( 12%)	.205	.182-.228 ( 11%)	41.40	0.240 All species
1	0-4 (430%)	.000	.000-.000 (430%)	0.00	0.785 Black bullhead
1448	1055-1841 ( 27%)	.036	.027-.044 ( 25%)	8.15	0.288 Black crappie
1632	1364-1901 ( 16%)	.046	.038-.055 ( 18%)	9.19	0.107 Bluegill
7	4-11 ( 46%)	.000	.000-.000 ( 68%)	0.04	0.182 Bowfin
6	0-26 (318%)	.000	.000-.001 (318%)	0.03	1.541 Carp
1779	1442-2116 ( 19%)	.067	.053-.082 ( 22%)	10.01	0.672 Channel catfish
4	0-11 (154%)	.000	.000-.000 (161%)	0.02	0.234 Crappie spp.
29	4-55 ( 88%)	.000	.000-.001 ( 99%)	0.16	1.631 Flathead catfish
1	0-3 (257%)	.000	.000-.000 (257%)	0.00	0.157 Grass carp
1	0-3 (211%)	.000	.000-.000 (209%)	0.01	0.073 Green sunfish
0	0-0 (203%)	.000	.000-.000 (182%)	0.00	0.031 Gizzard shad
1078	675-1480 ( 37%)	.023	.017-.029 ( 28%)	6.07	0.765 Largemouth bass
27	0-59 (116%)	.001	.000-.003 (161%)	0.15	1.589 Longnose gar
2	0-7 (183%)	.000	.000-.000 (236%)	0.01	0.198 Longear sunfish
141	73-210 ( 48%)	.003	.002-.005 ( 52%)	0.80	0.304 Redear sunfish
1	0-4 (245%)	.000	.000-.000 (236%)	0.01	0.409 Shortnose gar
			**** NOT RECORDED ****		Threadfin shad
32	18-45 ( 42%)	.002	.000-.003 ( 87%)	0.18	0.167 Warmouth
1135	751-1520 ( 34%)	.024	.015-.032 ( 36%)	6.39	0.211 White crappie
29	11-47 ( 62%)	.001	.000-.003 (100%)	0.16	0.373 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
16214	14305-18124 ( 12%)	.452	.401-.502 ( 11%)	36.94	0.530 All species
2	0-7 (318%)	.000	.000-.000 (318%)	0.00	1.730 Black bullhead
3193	2327-4060 ( 27%)	.078	.059-.098 ( 25%)	7.27	0.635 Black crappie
3599	3006-4191 ( 16%)	.102	.084-.120 ( 18%)	8.20	0.236 Bluegill
16	9-24 ( 46%)	.000	.000-.001 ( 68%)	0.04	0.401 Bowfin
14	0-57 (318%)	.001	.000-.003 (430%)	0.03	3.398 Carp
3922	3179-4665 ( 19%)	.149	.116-.181 ( 22%)	8.93	1.481 Channel catfish
10	0-25 (154%)	.000	.000-.001 (161%)	0.02	0.515 Crappie spp.
64	8-120 ( 88%)	.001	.000-.002 ( 99%)	0.15	3.595 Flathead catfish
2	0-6 (257%)	.000	.000-.000 (278%)	0.00	0.346 Grass carp
2	0-7 (211%)	.000	.000-.000 (209%)	0.00	0.160 Green sunfish
0	0-1 (203%)	.000	.000-.000 (182%)	0.00	0.068 Gizzard shad
2376	1489-3262 ( 37%)	.051	.037-.065 ( 28%)	5.41	1.686 Largemouth bass
60	0-129 (116%)	.002	.000-.006 (161%)	0.14	3.504 Longnose gar
5	0-14 (183%)	.000	.000-.001 (236%)	0.01	0.437 Longear sunfish
312	161-462 ( 48%)	.008	.004-.012 ( 52%)	0.71	0.671 Redear sunfish
2	0-8 (245%)	.000	.000-.000 (236%)	0.01	0.902 Shortnose gar
			**** NOT RECORDED ****		Threadfin shad
70	41-99 ( 42%)	.003	.000-.006 ( 87%)	0.16	0.368 Warmouth
2503	1655-3352 ( 34%)	.052	.033-.071 ( 36%)	5.70	0.464 White crappie
64	24-104 ( 62%)	.003	.000-.006 (100%)	0.15	0.821 Yellow bullhead

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.3	4.1-4.5	( 5%)	0.5	12.7	486
SHORE	2.2	2.1-2.3	( 5%)	0.2	7.2	655
BOAT & SHORE	3.1	2.9-3.2	( 4%)	0.2	12.7	1141
MILES TRAVELED	20.8	18.8-22.9	( 10%)	1	1000	1333
SUCCESS RATING (1-10)	4.8	4.6-5.0	( 4%)	1	10	1327

\*485 samples were from split interviews of completed trips.  
80.9% of all 1410 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 24 out of 1410 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	156	369	40	2						
SHORE INTERVIEWS	361	342	88	42	10					

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

293 ( 20.8%)	ANY	All species
41 ( 2.9%)	BLG	Bluegill
387 ( 27.4%)	CAT	Unidentified catfish
1 ( 0.1%)	CCF	Channel catfish
407 ( 28.9%)	CRP	Crappie spp.
280 ( 19.9%)	LMB	Largemouth bass

Table 11. Number of anglers with a given harvest &amp; 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 1999	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST 1700	93	64	27	35	20	10	9	5	5	4	2	-	2	4	20	
RELEASE 1888	69	9	15	2	6	5	-	1	1	1	1	1	1	-	-	
Bluegill																
HARVEST 1687	98	44	33	26	19	12	5	10	7	50	3	3	-	-	3	
RELEASE 1509	110	59	45	26	18	40	14	25	20	17	6	24	5	3	79	
Bowfin																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1970	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carp																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1998	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Channel catfish																
HARVEST 1659	169	74	36	12	15	32	3	-	-	-	-	-	-	-	-	
RELEASE 1844	125	22	5	2	-	-	-	2	-	-	-	-	-	-	-	
Crappie spp.																
HARVEST 1998	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1998	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Flathead catfish																
HARVEST 1998	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grass carp																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1998	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Green sunfish																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1994	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gizzard shad																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1998	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Largemouth bass																
HARVEST 1933	36	17	8	2	-	4	-	-	-	-	-	-	-	-	-	
RELEASE 1717	145	54	37	13	17	2	6	7	1	-	-	-	1	-	-	

Table 11, continued. Number of anglers with a given harvest &amp; release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Longnose gar																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1992	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longear sunfish																
HARVEST 1997	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST 1902	64	25	4	3	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1990	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shortnose gar																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1999	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Threadfin shad																
HARVEST 2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1998	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST 1976	23	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1950	34	12	2	2	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST 1749	65	44	29	25	11	14	10	12	1	2	6	2	-	-	-	30
RELEASE 1858	56	21	29	1	7	11	4	2	4	-	1	3	-	-	-	3
Yellow bullhead																
HARVEST 1988	10	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1985	14	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

PRE-KILL JULY 25, 2004

2004 MERMET LAKE  
 439 ACRES  
 REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 07/25/2004  
 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: 186/399 = 46.6%

NUMBER OF INTERVIEWS: 1692

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	6495	5336-7654 ( 18%)	15	12-17 ( 18%)	19%
	HOLIDAY	4649	2511-6788 ( 46%)	11	6-15 ( 46%)	46%
	TOTAL	11145	8912-13378 ( 20%)	25	20-30 ( 20%)	30%
SHORE	WEEKDAY	5048	4302-5794 ( 15%)	11	10-13 ( 15%)	27%
	HOLIDAY	3194	2607-3781 ( 18%)	7	6-9 ( 18%)	53%
	TOTAL	8242	7293-9191 ( 12%)	19	17-21 ( 12%)	37%
BOAT & SHORE	WEEKDAY	11543	10218-12868 ( 11%)	26	23-29 ( 11%)	23%
	HOLIDAY	7843	5680-10007 ( 28%)	18	13-23 ( 28%)	48%
	TOTAL	19387	17014-21759 ( 12%)	44	39-50 ( 12%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
15039	12911-17167 ( 14%)		.673	.583-.763 ( 13%)	84.65	34.26	All species
1	0-4 (318%)		.000	.000-.000 (430%)	0.01	0.00	Black bullhead
4368	3185-5550 ( 27%)		.183	.137-.230 ( 25%)	24.58	9.95	Black crappie
3745	3049-4441 ( 19%)		.193	.154-.232 ( 20%)	21.08	8.53	Bluegill
			****	NOT RECORDED ****			Bowfin
			****	NOT RECORDED ****			Carp
1946	1548-2345 ( 20%)		.104	.082-.126 ( 21%)	10.96	4.43	Channel catfish
11	0-40 (257%)		.000	.000-.002 (245%)	0.06	0.03	Crappie spp.
18	2-34 ( 88%)		.000	.000-.001 (102%)	0.10	0.04	Flathead catfish
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
356	95-616 ( 73%)		.013	.007-.019 ( 46%)	2.00	0.81	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
12	0-31 (165%)		.001	.000-.002 (227%)	0.07	0.03	Longear sunfish
425	206-644 ( 52%)		.018	.008-.028 ( 55%)	2.39	0.97	Redear sunfish
			****	NOT RECORDED ****			Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
49	14-85 ( 72%)		.004	.000-.009 (126%)	0.28	0.11	Warmouth
4062	2736-5387 ( 33%)		.152	.091-.212 ( 40%)	22.86	9.25	White crappie
47	7-86 ( 85%)		.004	.000-.010 (144%)	0.26	0.11	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
5395	4675-6116 ( 13%)		.242	.211-.272 ( 13%)	30.37	0.359	All species
1	0-4 (430%)		.000	.000-.000 (430%)	0.00	0.785	Black bullhead
1397	1010-1784 ( 28%)		.058	.043-.073 ( 26%)	7.86	0.320	Black crappie
891	718-1064 ( 19%)		.045	.036-.054 ( 21%)	5.02	0.238	Bluegill
			****	NOT RECORDED ****			Bowfin
			****	NOT RECORDED ****			Carp
1479	1168-1790 ( 21%)		.077	.059-.095 ( 23%)	8.32	0.760	Channel catfish
2	0-8 (257%)		.000	.000-.000 (257%)	0.01	0.204	Crappie spp.
29	4-55 ( 88%)		.001	.000-.002 ( 99%)	0.16	1.631	Flathead catfish
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
356	95-617 ( 73%)		.013	.007-.019 ( 46%)	2.00	1.000	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
2	0-7 (183%)		.000	.000-.001 (236%)	0.01	0.198	Longear sunfish
137	69-204 ( 50%)		.006	.003-.009 ( 53%)	0.77	0.321	Redear sunfish
			****	NOT RECORDED ****			Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
15	4-26 ( 72%)		.002	.000-.004 (148%)	0.08	0.303	Warmouth
1066	698-1434 ( 35%)		.038	.024-.053 ( 38%)	6.00	0.263	White crappie
20	4-36 ( 82%)		.002	.000-.004 (140%)	0.11	0.429	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
11895	10306-13484	( 13%)	.533	.466-.600 ( 13%)	27.10	0.791	All species
2	0-7	(318%)	.000	.000-.000 (318%)	0.00	1.730	Black bullhead
3080	2227-3933	( 28%)	.128	.095-.160 ( 26%)	7.02	0.705	Black crappie
1965	1584-2347	( 19%)	.099	.079-.120 ( 21%)	4.48	0.525	Bluegill
			****	NOT RECORDED ****			Bowfin
			****	NOT RECORDED ****			Carp
3260	2575-3946	( 21%)	.170	.130-.210 ( 23%)	7.43	1.675	Channel catfish
5	0-17	(245%)	.000	.000-.001 (245%)	0.01	0.449	Crappie spp.
64	8-120	( 88%)	.002	.000-.003 ( 99%)	0.15	3.595	Flathead catfish
			****	NOT RECORDED ****			Grass carp
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
785	209-1360	( 73%)	.029	.016-.042 ( 46%)	1.79	2.205	Largemouth bass
			****	NOT RECORDED ****			Longnose gar
5	0-14	(183%)	.000	.000-.001 (236%)	0.01	0.437	Longear sunfish
301	152-451	( 50%)	.013	.006-.019 ( 53%)	0.69	0.709	Redear sunfish
			****	NOT RECORDED ****			Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
33	9-57	( 72%)	.003	.000-.009 (148%)	0.07	0.668	Warmouth
2351	1540-3162	( 35%)	.085	.053-.117 ( 38%)	5.36	0.579	White crappie
44	8-80	( 82%)	.004	.000-.009 (140%)	0.10	0.945	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
30278	26440-34116	( 13%)	1.347	1.179-1.515( 12%)	170.43	68.97	All species
1	0-4	(318%)	.000	.000-.000 (430%)	0.01	0.00	Black bullhead
5018	3721-6316	( 26%)	.210	.158-.261 ( 25%)	28.25	11.43	Black crappie
15259	12841-17678	( 16%)	.725	.602-.848 ( 17%)	85.89	34.76	Bluegill
39	21-57	( 45%)	.002	.001-.003 ( 60%)	0.22	0.09	Bowfin
4	0-17	(318%)	.000	.000-.001 (318%)	0.02	0.01	Carp
2359	1917-2801	( 19%)	.125	.100-.149 ( 19%)	13.28	5.37	Channel catfish
19	0-49	(161%)	.001	.000-.002 (174%)	0.11	0.04	Crappie spp.
18	2-34	( 88%)	.000	.000-.001 (102%)	0.10	0.04	Flathead catfish
4	0-17	(278%)	.000	.000-.002 (257%)	0.03	0.01	Grass carp
13	0-41	(211%)	.001	.000-.002 (209%)	0.07	0.03	Green sunfish
3	0-9	(182%)	.000	.000-.000 (186%)	0.02	0.01	Gizzard shad
1394	887-1900	( 36%)	.049	.035-.062 ( 27%)	7.84	3.17	Largemouth bass
9	0-17	( 98%)	.000	.000-.001 (130%)	0.05	0.02	Longnose gar
12	0-31	(165%)	.001	.000-.002 (227%)	0.07	0.03	Longear sunfish
465	242-687	( 48%)	.020	.010-.030 ( 52%)	2.62	1.06	Redear sunfish
2	0-9	(245%)	.000	.000-.000 (236%)	0.01	0.01	Shortnose gar
3	0-13	(430%)	.000	.000-.000 (430%)	0.01	0.01	Threadfin shad
188	112-264	( 40%)	.013	.006-.021 ( 56%)	1.06	0.43	Warmouth
5394	3774-7013	( 30%)	.195	.133-.256 ( 32%)	30.36	12.29	White crappie
75	26-123	( 65%)	.006	.000-.012 (101%)	0.42	0.17	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
7146	6286-8006	( 12%)	.316	.281-.350 ( 11%)	40.22	0.236	All species
1	0-4	(430%)	.000	.000-.000 (430%)	0.00	0.785	Black bullhead
1447	1054-1840	( 27%)	.060	.045-.075 ( 25%)	8.14	0.288	Black crappie
1632	1363-1901	( 16%)	.080	.066-.094 ( 18%)	9.19	0.107	Bluegill
7	4-10	( 47%)	.000	.000-.001 ( 71%)	0.04	0.182	Bowfin
6	0-26	(318%)	.000	.000-.002 (318%)	0.03	1.541	Carp
1598	1275-1920	( 20%)	.084	.066-.102 ( 21%)	8.99	0.677	Channel catfish
4	0-11	(154%)	.000	.000-.000 (161%)	0.02	0.234	Crappie spp.
29	4-55	( 88%)	.001	.000-.002 ( 99%)	0.16	1.631	Flathead catfish
1	0-3	(257%)	.000	.000-.000 (257%)	0.00	0.157	Grass carp
1	0-3	(211%)	.000	.000-.000 (209%)	0.01	0.073	Green sunfish
0	0-0	(203%)	.000	.000-.000 (182%)	0.00	0.031	Gizzard shad
1066	664-1468	( 38%)	.038	.027-.049 ( 30%)	6.00	0.765	Largemouth bass
15	0-32	(122%)	.001	.000-.001 (114%)	0.08	1.676	Longnose gar
2	0-7	(183%)	.000	.000-.001 (236%)	0.01	0.198	Longear sunfish
141	73-210	( 48%)	.006	.003-.009 ( 52%)	0.80	0.304	Redear sunfish
1	0-4	(245%)	.000	.000-.000 (245%)	0.01	0.409	Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
32	18-45	( 42%)	.003	.000-.005 ( 88%)	0.18	0.168	Warmouth
1135	751-1520	( 34%)	.041	.026-.055 ( 36%)	6.39	0.211	White crappie
28	10-46	( 64%)	.002	.000-.005 (106%)	0.16	0.380	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
15754	13858-17650	( 12%)	.696	.620-.773 ( 11%)	35.89	0.520	All species
2	0-7	(318%)	.000	.000-.000 (318%)	0.00	1.730	Black bullhead
3189	2323-4056	( 27%)	.133	.100-.166 ( 25%)	7.26	0.636	Black crappie
3598	3005-4190	( 16%)	.175	.145-.206 ( 18%)	8.20	0.236	Bluegill
16	8-23	( 47%)	.001	.000-.001 ( 71%)	0.04	0.401	Bowfin
14	0-57	(318%)	.001	.000-.005 (430%)	0.03	3.398	Carp
3522	2811-4233	( 20%)	.184	.145-.224 ( 21%)	8.02	1.493	Channel catfish
10	0-25	(154%)	.000	.000-.001 (161%)	0.02	0.515	Crappie spp.
64	8-120	( 88%)	.002	.000-.003 ( 99%)	0.15	3.595	Flathead catfish
2	0-6	(257%)	.000	.000-.001 (257%)	0.00	0.346	Grass carp
2	0-7	(211%)	.000	.000-.000 (209%)	0.00	0.160	Green sunfish
0	0-1	(203%)	.000	.000-.000 (182%)	0.00	0.068	Gizzard shad
2350	1464-3236	( 38%)	.084	.059-.109 ( 30%)	5.35	1.686	Largemouth bass
32	0-71	(122%)	.001	.000-.003 (114%)	0.07	3.695	Longnose gar
5	0-14	(183%)	.000	.000-.001 (236%)	0.01	0.437	Longear sunfish
312	161-462	( 48%)	.013	.006-.020 ( 52%)	0.71	0.671	Redear sunfish
2	0-8	(245%)	.000	.000-.000 (245%)	0.01	0.902	Shortnose gar
			****	NOT RECORDED ****			Threadfin shad
70	41-99	( 42%)	.006	.001-.011 ( 88%)	0.16	0.371	Warmouth
2503	1655-3352	( 34%)	.090	.057-.122 ( 36%)	5.70	0.464	White crappie
63	23-102	( 64%)	.005	.000-.011 (106%)	0.14	0.838	Yellow bullhead



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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	4.3	4.1-4.6 ( 5%)		0.5	12.7	450
SHORE	2.3	2.2-2.4 ( 5%)		0.2	7.2	547
BOAT & SHORE	3.2	3.1-3.3 ( 4%)		0.2	12.7	997
MILES TRAVELED	21.3	19.0-23.6 ( 11%)		1	1000	1168
SUCCESS RATING (1-10)	5.1	4.9-5.4 ( 4%)		1	10	1162

\*444 samples were from split interviews of completed trips.  
80.7% of all 1235 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 24 out of 1235 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	331	39	2						
SHORE INTERVIEWS	293	301	81	39	8					

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

273 ( 22.1%)	ANY	All species
40 ( 3.2%)	BLG	Bluegill
323 ( 26.2%)	CAT	Unidentified catfish
1 ( 0.1%)	CCF	Channel catfish
369 ( 29.9%)	CRP	Crappie spp.
228 ( 18.5%)	LMB	Largemouth bass

Table 11. Number of anglers with a given harvest &amp; 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	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST 1471	93	64	27	35	20	10	9	5	5	4	2	-	2	4	20	
RELEASE 1663	65	9	15	2	6	5	-	1	1	1	1	1	1	-	-	
Bluegill																
HARVEST 1458	98	44	33	26	19	12	5	10	7	50	3	3	-	-	3	
RELEASE 1283	107	59	45	26	18	40	14	25	20	17	6	24	5	3	79	
Bowfin																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1743	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carp																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1769	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Channel catfish																
HARVEST 1455	155	72	35	12	15	24	3	-	-	-	-	-	-	-	-	
RELEASE 1625	121	18	5	2	-	-	-	-	-	-	-	-	-	-	-	
Crappie spp.																
HARVEST 1769	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1769	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	
Flathead catfish																
HARVEST 1769	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grass carp																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1769	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Green sunfish																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1765	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gizzard shad																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
RELEASE 1769	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Largemouth bass																
HARVEST 1704	36	17	8	2	-	4	-	-	-	-	-	-	-	-	-	
RELEASE 1493	140	54	37	13	17	2	6	7	1	-	-	-	1	-	-	

Table 11, continued. Number of anglers with a given harvest &amp; release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Longnose gar																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1763	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longear sunfish																
HARVEST 1768	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST 1673	64	25	4	3	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1761	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shortnose gar																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1770	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Threadfin shad																
HARVEST 1771	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1769	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST 1747	23	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1723	32	12	2	2	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST 1520	65	44	29	25	11	14	10	12	1	2	6	2	-	-	-	30
RELEASE 1629	56	21	29	1	7	11	4	2	4	-	1	3	-	-	-	3
Yellow bullhead																
HARVEST 1759	10	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1758	12	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

POST-KILL JULY 25, 2004

2004 MERMET LAKE  
 439 ACRES  
 REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 07/26/2004 through 10/28/2004  
 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: 107/285 = 37.5%

NUMBER OF INTERVIEWS: 216

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	442	239-644 ( 46%)	1	1-1 ( 46%)	20%
	HOLIDAY	487	50-924 ( 90%)	1	0-2 ( 90%)	38%
	TOTAL	929	465-1392 ( 50%)	2	1-3 ( 50%)	29%
SHORE	WEEKDAY	647	401-893 ( 38%)	1	1-2 ( 38%)	21%
	HOLIDAY	497	369-625 ( 26%)	1	1-1 ( 26%)	41%
	TOTAL	1144	877-1412 ( 23%)	3	2-3 ( 23%)	30%
BOAT & SHORE	WEEKDAY	1089	787-1391 ( 28%)	2	2-3 ( 28%)	21%
	HOLIDAY	984	537-1431 ( 45%)	2	1-3 ( 45%)	39%
	TOTAL	2073	1556-2590 ( 25%)	5	4-6 ( 25%)	30%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
228	100-356	( 56%)	.076	.029-.122 ( 62%)	1.28	0.52	All species
			****	NOT RECORDED			Black crappie
			****	NOT RECORDED			Bluegill
			****	NOT RECORDED			Bowfin
228	100-356	( 56%)	.076	.029-.122 ( 62%)	1.28	0.52	Channel catfish
			****	NOT RECORDED			Largemouth bass
			****	NOT RECORDED			Longnose gar
			****	NOT RECORDED			Warmouth
			****	NOT RECORDED			Yellow bullhead

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
139	44-235	( 68%)	.038	.013-.063 ( 66%)	0.79	0.612	All species
			****	NOT RECORDED			Black crappie
			****	NOT RECORDED			Bluegill
			****	NOT RECORDED			Bowfin
139	44-235	( 68%)	.038	.013-.063 ( 66%)	0.79	0.612	Channel catfish
			****	NOT RECORDED			Largemouth bass
			****	NOT RECORDED			Longnose gar
			****	NOT RECORDED			Warmouth
			****	NOT RECORDED			Yellow bullhead

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
307	97-518	( 68%)	.084	.028-.140 ( 66%)	0.70	1.348	All species
			****	NOT RECORDED			Black crappie
			****	NOT RECORDED			Bluegill
			****	NOT RECORDED			Bowfin
307	97-518	( 68%)	.084	.028-.140 ( 66%)	0.70	1.348	Channel catfish
			****	NOT RECORDED			Largemouth bass
			****	NOT RECORDED			Longnose gar
			****	NOT RECORDED			Warmouth
			****	NOT RECORDED			Yellow bullhead

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

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
334	180-487	( 46%)	.102	.051-.153 ( 50%)	1.88	0.76	All species
8	0-19	(123%)	.004	.000-.011 (203%)	0.05	0.02	Black crappie
6	0-15	(153%)	.002	.000-.006 (183%)	0.03	0.01	Bluegill
1	0-5	(257%)	.000	.000-.001 (257%)	0.01	0.00	Bowfin
289	139-440	( 52%)	.090	.039-.140 ( 56%)	1.63	0.66	Channel catfish
15	0-32	(107%)	.004	.000-.009 (113%)	0.09	0.03	Largemouth bass
8	0-28	(226%)	.001	.000-.004 (231%)	0.05	0.02	Longnose gar
2	0-6	(257%)	.000	.000-.001 (245%)	0.01	0.00	Warmouth
4	0-9	(162%)	.001	.000-.002 (166%)	0.02	0.01	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
209	97-320	( 53%)	.050	.023-.077 ( 55%)	1.18	0.626	All species
2	0-5	(177%)	.001	.000-.003 (256%)	0.01	0.207	Black crappie
0	0-1	(153%)	.000	.000-.000 (183%)	0.00	0.068	Bluegill
0	0-1	(257%)	.000	.000-.000 (245%)	0.00	0.181	Bowfin
181	77-286	( 58%)	.045	.018-.071 ( 60%)	1.02	0.627	Channel catfish
12	0-30	(158%)	.002	.000-.004 (114%)	0.07	0.767	Largemouth bass
13	0-42	(231%)	.002	.000-.006 (231%)	0.07	1.500	Longnose gar
0	0-0	(245%)	.000	.000-.000 (245%)	0.00	0.029	Warmouth
1	0-2	(166%)	.000	.000-.000 (162%)	0.00	0.217	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
460	215-706	( 53%)	.109	.050-.169 ( 55%)	1.05	1.380	All species
4	0-11	(177%)	.002	.000-.007 (256%)	0.01	0.457	Black crappie
1	0-2	(153%)	.000	.000-.001 (183%)	0.00	0.150	Bluegill
1	0-2	(245%)	.000	.000-.000 (257%)	0.00	0.398	Bowfin
400	169-630	( 58%)	.098	.039-.157 ( 60%)	0.91	1.382	Channel catfish
26	0-67	(158%)	.004	.000-.009 (114%)	0.06	1.692	Largemouth bass
28	0-92	(231%)	.004	.000-.013 (226%)	0.06	3.307	Longnose gar
0	0-0	(245%)	.000	.000-.000 (257%)	0.00	0.065	Warmouth
2	0-5	(166%)	.000	.000-.001 (162%)	0.00	0.479	Yellow bullhead

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.4	2.9-4.0 ( 17%)	0.7	7.7	36
SHORE	1.7	1.4-1.9 ( 14%)	0.2	5.2	108
BOAT & SHORE	2.1	1.8-2.4 ( 12%)	0.2	7.7	144
MILES TRAVELED	17.7	15.5-19.9 ( 13%)	1	115	165
SUCCESS RATING (1-10)	2.1	1.7-2.5 ( 18%)	1	10	165

\*41 samples were from split interviews of completed trips.  
 82.3% of all 175 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 175 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	15	38	1							
SHORE INTERVIEWS	68	41	7	3	2					

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

20 ( 11.4%)	ANY	All species
1 ( 0.6%)	BLG	Bluegill
64 ( 36.6%)	CAT	Unidentified catfish
38 ( 21.7%)	CRP	Crappie spp.
52 ( 29.7%)	LMB	Largemouth bass

Table 11. Number of anglers with a given harvest &amp; 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	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	225	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	226	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bowfin																
HARVEST	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	227	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	204	14	2	1	-	-	8	-	-	-	-	-	-	-	-	-
RELEASE	219	4	4	-	-	-	-	-	2	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	224	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	227	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	229	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	227	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-



ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 LAKE MURPHYSBORO  
 140 ACRES  
 REGION 5, DISTRICT 21

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 Year periods stratified.  
 Fishing modes (boat vs. shore) stratified.  
 Day types (weekday vs. weekend/holiday) stratified.  
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 306/693 = 44.2%

NUMBER OF INTERVIEWS: 1288

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	4920	4179-5660 ( 15%)	35	30-40 ( 15%)	21%
	HOLIDAY	3206	2713-3699 ( 15%)	23	19-26 ( 15%)	40%
	TOTAL	8126	7237-9016 ( 11%)	58	52-64 ( 11%)	28%
SHORE	WEEKDAY	3309	2716-3902 ( 18%)	24	19-28 ( 18%)	21%
	HOLIDAY	3197	2762-3633 ( 14%)	23	20-26 ( 14%)	49%
	TOTAL	6507	5771-7243 ( 11%)	46	41-52 ( 11%)	35%
BOAT & SHORE	WEEKDAY	8229	7280-9178 ( 12%)	59	52-66 ( 12%)	21%
	HOLIDAY	6404	5746-7062 ( 10%)	46	41-50 ( 10%)	45%
	TOTAL	14633	13478-15787 ( 8%)	105	96-113 ( 8%)	31%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
23467	19297-27637 ( 18%)	1.472	1.178-1.767 ( 20%)	414.19	167.62	All species
1030	469-1592 ( 54%)	.058	.026-.090 ( 55%)	18.19	7.36	Black crappie
4441	3309-5574 ( 25%)	.270	.182-.357 ( 33%)	78.39	31.72	Bluegill
		****	NOT RECORDED ****			Bowfin
		****	NOT RECORDED ****			Brown bullhead
1096	820-1372 ( 25%)	.079	.050-.107 ( 36%)	19.35	7.83	Channel catfish
		****	NOT RECORDED ****			Green sunfish
112	0-360 (223%)	.002	.000-.007 (220%)	1.97	0.80	Gizzard shad
479	308-650 ( 36%)	.033	.017-.050 ( 50%)	8.46	3.42	Largemouth bass
76	31-122 ( 60%)	.004	.001-.007 ( 74%)	1.35	0.55	Redear sunfish
66	30-102 ( 54%)	.004	.001-.008 ( 80%)	1.17	0.47	Warmouth
		****	NOT RECORDED ****			White bass
15966	12247-19684 ( 23%)	1.016	.753-1.280 ( 26%)	281.79	114.04	White crappie
200	0-457 (129%)	.006	.000-.013 (115%)	3.53	1.43	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
3839	3194-4484 ( 17%)	.245	.196-.295 ( 20%)	67.76	0.164	All species
146	82-210 ( 44%)	.009	.004-.013 ( 55%)	2.57	0.142	Black crappie
326	237-416 ( 27%)	.019	.013-.025 ( 33%)	5.76	0.073	Bluegill
		****	NOT RECORDED ****			Bowfin
		****	NOT RECORDED ****			Brown bullhead
699	516-882 ( 26%)	.048	.031-.066 ( 36%)	12.34	0.638	Channel catfish
		****	NOT RECORDED ****			Green sunfish
0	0-0 (220%)	.000	.000-.000 (220%)	0.00	0.001	Gizzard shad
341	212-470 ( 38%)	.023	.011-.035 ( 53%)	6.02	0.712	Largemouth bass
8	3-12 ( 60%)	.000	.000-.001 ( 70%)	0.14	0.102	Redear sunfish
9	4-15 ( 57%)	.001	.000-.001 ( 86%)	0.16	0.140	Warmouth
		****	NOT RECORDED ****			White bass
2242	1690-2794 ( 25%)	.143	.100-.186 ( 30%)	39.58	0.140	White crappie
67	0-139 (108%)	.002	.000-.004 (100%)	1.18	0.335	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
8463	7041-9885	( 17%)	.540	.431-.649 ( 20%)	60.45	0.361	All species
322	180-463	( 44%)	.019	.009-.029 ( 55%)	2.30	0.312	Black crappie
719	523-916	( 27%)	.042	.028-.055 ( 33%)	5.14	0.162	Bluegill
			****	NOT RECORDED ****			Bowfin
			****	NOT RECORDED ****			Brown bullhead
1541	1137-1946	( 26%)	.107	.069-.145 ( 36%)	11.01	1.406	Channel catfish
			****	NOT RECORDED ****			Green sunfish
0	0-1	(223%)	.000	.000-.000 (223%)	0.00	0.002	Gizzard shad
752	468-1036	( 38%)	.051	.024-.077 ( 53%)	5.37	1.569	Largemouth bass
17	7-27	( 60%)	.001	.000-.001 ( 70%)	0.12	0.225	Redear sunfish
20	9-32	( 57%)	.001	.000-.002 ( 86%)	0.15	0.308	Warmouth
			****	NOT RECORDED ****			White bass
4944	3727-6161	( 25%)	.316	.222-.411 ( 30%)	35.31	0.310	White crappie
148	0-307	(108%)	.004	.000-.009 (100%)	1.06	0.738	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
37778	32531-43024	( 14%)	2.211	1.870-2.552 ( 15%)	666.78	269.84	All species
1806	838-2775	( 54%)	.085	.047-.122 ( 44%)	31.88	12.90	Black crappie
10328	8473-12183	( 18%)	.535	.427-.643 ( 20%)	182.29	73.77	Bluegill
6	0-16	(156%)	.000	.000-.000 (162%)	0.11	0.04	Bowfin
17	0-37	(121%)	.002	.000-.006 (179%)	0.29	0.12	Brown bullhead
2113	1645-2581	( 22%)	.140	.102-.177 ( 27%)	37.29	15.09	Channel catfish
2	0-8	(430%)	.000	.000-.000 (318%)	0.03	0.01	Green sunfish
119	0-365	(208%)	.003	.000-.008 (193%)	2.09	0.85	Gizzard shad
2564	1943-3184	( 24%)	.131	.097-.165 ( 26%)	45.25	18.31	Largemouth bass
142	77-207	( 46%)	.008	.003-.012 ( 56%)	2.50	1.01	Redear sunfish
158	88-228	( 44%)	.009	.004-.013 ( 49%)	2.79	1.13	Warmouth
6	0-25	(318%)	.000	.000-.001 (318%)	0.10	0.04	White bass
20238	15945-24531	( 21%)	1.290	.988-1.592 ( 23%)	357.20	144.56	White crappie
280	11-549	( 96%)	.009	.002-.017 ( 77%)	4.94	2.00	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
5103	4372-5834	( 14%)	.311	.258-.364 ( 17%)	90.07	0.135	All species
191	105-278	( 45%)	.010	.005-.015 ( 48%)	3.38	0.106	Black crappie
503	401-605	( 20%)	.027	.020-.033 ( 25%)	8.88	0.049	Bluegill
1	0-3	(160%)	.000	.000-.000 (158%)	0.02	0.178	Bowfin
2	0-4	(147%)	.000	.000-.000 (150%)	0.03	0.092	Brown bullhead
1017	768-1266	( 24%)	.067	.047-.087 ( 30%)	17.95	0.481	Channel catfish
0	0-1	(318%)	.000	.000-.000 (318%)	0.00	0.127	Green sunfish
0	0-1	(170%)	.000	.000-.000 (195%)	0.01	0.003	Gizzard shad
782	574-990	( 27%)	.041	.028-.055 ( 33%)	13.81	0.305	Largemouth bass
13	7-19	( 48%)	.001	.000-.001 ( 58%)	0.22	0.089	Redear sunfish
17	10-23	( 41%)	.001	.000-.002 ( 71%)	0.29	0.105	Warmouth
0	0-1	(318%)	.000	.000-.000 (318%)	0.01	0.052	White bass
2481	1894-3068	( 24%)	.161	.115-.206 ( 28%)	43.79	0.123	White crappie
95	17-174	( 82%)	.003	.001-.005 ( 71%)	1.68	0.341	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
11250	9638-12863	( 14%)	.686	.569-.803 ( 17%)	80.36	0.298	All species
422	231-613	( 45%)	.023	.012-.033 ( 48%)	3.02	0.234	Black crappie
1109	885-1333	( 20%)	.059	.044-.073 ( 25%)	7.92	0.107	Bluegill
2	0-6	(160%)	.000	.000-.000 (158%)	0.02	0.392	Bowfin
3	0-8	(147%)	.000	.000-.001 (150%)	0.02	0.203	Brown bullhead
2242	1694-2790	( 24%)	.148	.103-.192 ( 30%)	16.02	1.061	Channel catfish
0	0-2	(430%)	.000	.000-.000 (430%)	0.00	0.280	Green sunfish
1	0-2	(170%)	.000	.000-.000 (195%)	0.01	0.006	Gizzard shad
1725	1266-2184	( 27%)	.091	.061-.121 ( 33%)	12.32	0.673	Largemouth bass
28	14-41	( 48%)	.002	.001-.003 ( 58%)	0.20	0.196	Redear sunfish
37	22-52	( 41%)	.002	.001-.004 ( 71%)	0.26	0.232	Warmouth
1	0-3	(278%)	.000	.000-.000 (278%)	0.00	0.114	White bass
5470	4175-6765	( 24%)	.354	.254-.454 ( 28%)	39.07	0.270	White crappie
210	37-384	( 82%)	.007	.002-.012 ( 71%)	1.50	0.752	Yellow bullhead

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.2	2.8-3.6 ( 12%)	0.5	10.0	110
SHORE	1.6	1.4-1.9 ( 17%)	0.2	6.2	72
BOAT & SHORE	2.6	2.3-2.8 ( 11%)	0.2	10.0	182
MILES TRAVELED	42.3	35.9-48.8 ( 15%)	1	1300	966
SUCCESS RATING (1-10)	4.2	4.0-4.3 ( 4%)	1	10	966

\*72 samples were from split interviews of completed trips.  
15.0% of all 1215 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1215 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	212	332	54	14		2	1			
SHORE INTERVIEWS	213	220	81	58	9	12	6			1

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

536 ( 44.1%)	ANY	All species
71 ( 5.8%)	BLG	Bluegill
117 ( 9.6%)	CCF	Channel catfish
302 ( 24.9%)	CRP	Crappie spp.
186 ( 15.3%)	LMB	Largemouth bass
2 ( 0.2%)	RSF	Redear sunfish
1 ( 0.1%)	SHG	Shortnose gar

Table 11. Number of anglers with a given harvest &amp; 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	293	14	3	8	1	2	-	-	2	-	-	-	1	-	-	-
RELEASE	305	12	2	-	-	1	-	-	-	-	1	-	-	2	-	1
Bluegill																
HARVEST	284	14	1	3	-	6	-	3	2	-	4	2	-	-	-	5
RELEASE	248	30	10	15	-	2	4	6	-	2	-	-	1	4	-	2
Brown bullhead																
HARVEST	324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	322	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	298	10	7	4	3	-	2	-	-	-	-	-	-	-	-	-
RELEASE	305	7	4	2	2	2	2	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	313	9	1	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	250	46	6	8	1	3	1	1	1	-	3	-	1	1	-	2
Redear sunfish																
HARVEST	315	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	323	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	318	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	311	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	242	16	6	15	6	3	1	3	3	-	1	-	1	2	4	21
RELEASE	273	23	7	3	-	4	1	-	2	-	2	-	2	-	-	7
Yellow bullhead																
HARVEST	324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	321	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 PARIS EAST LAKE  
 163 ACRES  
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 Year periods stratified.  
 Fishing modes (boat vs. shore) stratified.  
 Day types (weekday vs. weekend/holiday) stratified.  
 Day periods (morning, midday, and afternoon) stratified.  
 Yearperiod 3 coalesced with yearperiod 4.  
 Yearperiod 4 coalesced with yearperiod 5.

SAMPLING RATIO: 153/693 = 22.1%

NUMBER OF INTERVIEWS: 552

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	2946	2199-3693 ( 25%)	18	13-23 ( 25%)	6%
	HOLIDAY	4255	3009-5501 ( 29%)	26	18-34 ( 29%)	19%
	TOTAL	7201	5796-8606 ( 20%)	44	36-53 ( 20%)	13%
SHORE	WEEKDAY	4180	3174-5186 ( 24%)	26	19-32 ( 24%)	6%
	HOLIDAY	3269	2690-3849 ( 18%)	20	17-24 ( 18%)	15%
	TOTAL	7449	6327-8572 ( 15%)	46	39-53 ( 15%)	10%
BOAT & SHORE	WEEKDAY	7126	5909-8343 ( 17%)	44	36-51 ( 17%)	6%
	HOLIDAY	7524	6201-8848 ( 18%)	46	38-54 ( 18%)	17%
	TOTAL	14650	12852-16449 ( 12%)	90	79-101 ( 12%)	11%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
5121	1004-9239	( 80%)	.205	.007-.402 ( 97%)	77.64	31.42	All species
98	4-192	( 96%)	.006	.000-.012 (102%)	1.49	0.60	Black crappie
2942	0-6744	(129%)	.098	.000-.195 (100%)	44.59	18.05	Bluegill
			****	NOT RECORDED ****			Carp
556	288-824	( 48%)	.028	.014-.042 ( 49%)	8.43	3.41	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
54	0-115	(114%)	.002	.000-.005 (261%)	0.82	0.33	Green sunfish
213	68-359	( 68%)	.016	.000-.040 (155%)	3.24	1.31	Largemouth bass
97	0-222	(128%)	.001	.000-.003 (126%)	1.48	0.60	Longear sunfish
618	108-1129	( 83%)	.025	.004-.046 ( 82%)	9.37	3.79	White crappie
171	44-298	( 74%)	.005	.001-.010 ( 90%)	2.59	1.05	Yellow bullhead
372	0-4573	(1130%)	.024	.000-.312 (1226%)	5.64	2.28	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
909	475-1343	( 48%)	.042	.020-.063 ( 51%)	13.78	0.178	All species
15	0-30	(102%)	.001	.000-.002 (102%)	0.22	0.150	Black crappie
269	0-649	(141%)	.009	.000-.017 (103%)	4.08	0.092	Bluegill
			****	NOT RECORDED ****			Carp
243	114-373	( 53%)	.011	.006-.016 ( 43%)	3.69	0.438	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
5	0-10	(111%)	.000	.000-.001 (777%)	0.07	0.084	Green sunfish
182	47-317	( 74%)	.013	.000-.033 (154%)	2.76	0.852	Largemouth bass
6	0-14	(123%)	.000	.000-.000 (120%)	0.09	0.063	Longear sunfish
131	32-230	( 76%)	.005	.001-.010 ( 87%)	1.99	0.212	White crappie
36	7-65	( 80%)	.001	.000-.002 ( 95%)	0.55	0.212	Yellow bullhead
22	0-252	(1051%)	.001	.000-.017 (1196%)	0.33	0.059	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
2004	1048-2961	( 48%)	.092	.045-.139 ( 51%)	12.30	0.391	All species
32	0-65	(102%)	.002	.000-.004 (102%)	0.20	0.330	Black crappie
594	0-1430	(141%)	.019	.000-.038 (103%)	3.64	0.202	Bluegill
			****	NOT RECORDED ****			Carp
536	250-822	( 53%)	.025	.014-.036 ( 43%)	3.29	0.965	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
10	0-21	(111%)	.000	.000-.002 (777%)	0.06	0.185	Green sunfish
401	103-699	( 74%)	.028	.000-.072 (154%)	2.46	1.878	Largemouth bass
14	0-30	(123%)	.000	.000-.000 (120%)	0.08	0.140	Longear sunfish
289	71-508	( 76%)	.012	.002-.022 ( 87%)	1.77	0.468	White crappie
80	16-144	( 80%)	.003	.000-.005 ( 95%)	0.49	0.468	Yellow bullhead
48	0-555	(1051%)	.003	.000-.037 (1196%)	0.30	0.130	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
28418	20666-36170 ( 27%)	1.366	1.066-1.666 ( 22%)	430.81	174.34	All species
283	77-489 ( 73%)	.027	.000-.058 (114%)	4.29	1.74	Black crappie
10870	5452-16289 ( 50%)	.473	.324-.622 ( 32%)	164.79	66.69	Bluegill
36	0-76 (113%)	.015	.000-.049 (226%)	0.54	0.22	Carp
1989	1472-2507 ( 26%)	.123	.090-.155 ( 26%)	30.16	12.20	Channel catfish
92	0-328 (257%)	.011	.000-.042 (278%)	1.39	0.56	Crappie spp.
676	67-1285 ( 90%)	.032	.001-.064 ( 98%)	10.25	4.15	Green sunfish
6937	5141-8733 ( 26%)	.329	.246-.412 ( 25%)	105.16	42.56	Largemouth bass
119	0-244 (105%)	.004	.000-.008 (117%)	1.80	0.73	Longear sunfish
3139	261-6016 ( 92%)	.144	.036-.252 ( 75%)	47.58	19.26	White crappie
1297	0-2893 (123%)	.058	.011-.106 ( 81%)	19.66	7.96	Yellow bullhead
2980	0-6057 (103%)	.150	.000-.872 (482%)	45.17	18.28	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
4000	3187-4814 ( 20%)	.232	.135-.330 ( 42%)	60.64	0.141	All species
25	7-42 ( 72%)	.002	.000-.004 ( 93%)	0.37	0.087	Black crappie
595	186-1004 ( 69%)	.026	.015-.037 ( 42%)	9.02	0.055	Bluegill
43	0-115 (164%)	.040	.000-.138 (248%)	0.66	1.213	Carp
597	376-818 ( 37%)	.031	.020-.041 ( 35%)	9.05	0.300	Channel catfish
1	0-5 (257%)	.000	.000-.001 (257%)	0.02	0.015	Crappie spp.
31	3-58 ( 89%)	.001	.000-.003 (116%)	0.46	0.045	Green sunfish
2164	1603-2724 ( 26%)	.108	.078-.137 ( 27%)	32.80	0.312	Largemouth bass
7	0-14 (112%)	.000	.000-.000 ( 99%)	0.10	0.057	Longear sunfish
296	100-492 ( 66%)	.014	.004-.023 ( 70%)	4.48	0.094	White crappie
146	33-259 ( 78%)	.006	.003-.010 ( 58%)	2.21	0.113	Yellow bullhead
96	0-200 (108%)	.005	.000-.028 (502%)	1.46	0.032	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
8819	7026-10613 ( 20%)	.512	.297-.727 ( 42%)	54.11	0.310	All species
54	15-93 ( 72%)	.004	.000-.008 ( 93%)	0.33	0.192	Black crappie
1312	410-2214 ( 69%)	.057	.033-.081 ( 42%)	8.05	0.121	Bluegill
95	0-253 (164%)	.088	.000-.305 (248%)	0.59	2.675	Carp
1316	828-1804 ( 37%)	.067	.044-.091 ( 35%)	8.08	0.662	Channel catfish
3	0-11 (257%)	.000	.000-.001 (278%)	0.02	0.032	Crappie spp.
67	7-128 ( 89%)	.003	.000-.006 (116%)	0.41	0.100	Green sunfish
4770	3534-6006 ( 26%)	.237	.172-.302 ( 27%)	29.26	0.688	Largemouth bass
15	0-32 (112%)	.000	.000-.001 ( 99%)	0.09	0.125	Longear sunfish
652	220-1084 ( 66%)	.030	.009-.051 ( 70%)	4.00	0.208	White crappie
322	72-572 ( 78%)	.014	.006-.023 ( 58%)	1.97	0.248	Yellow bullhead
212	0-441 (108%)	.010	.000-.063 (502%)	1.30	0.071	Yellow bass

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	5.0	4.2-5.8 ( 15%)		0.4	8.0	58
SHORE	1.2	1.0-1.3 ( 14%)		0.3	3.1	63
BOAT & SHORE	3.0	2.5-3.5 ( 17%)		0.3	8.0	121
MILES TRAVELED	11.9	10.3-13.5 ( 13%)		1	230	492
SUCCESS RATING (1-10)	4.2	3.9-4.4 ( 5%)		1	10	487

\*23 samples were from split interviews of completed trips.

22.9% of all 529 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 4 out of 529 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	86	108	17	10						
SHORE INTERVIEWS	162	103	22	15	6					

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

144 ( 27.2%)	ANY	All species
38 ( 7.2%)	BLG	Bluegill
3 ( 0.6%)	CAP	Carp
98 ( 18.5%)	CAT	Unidentified catfish
45 ( 8.5%)	CCF	Channel catfish
29 ( 5.5%)	CRP	Crappie spp.
172 ( 32.5%)	LMB	Largemouth bass

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	181	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	168	6	-	-	-	2	-	-	-	-	5	-	-	-	-	2
RELEASE	123	38	7	7	4	-	4	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	178	3	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	163	13	-	4	1	2	-	-	-	-	-	-	-	-	-	-
Crappie spp.																
HARVEST	183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	182	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	178	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	173	2	3	5	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	180	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	93	27	10	12	9	4	3	3	9	7	2	-	-	-	1	3
Longear sunfish																
HARVEST	178	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	182	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	179	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-
RELEASE	175	3	-	-	3	-	-	-	2	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	183	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	171	9	1	2	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	179	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2
RELEASE	171	6	-	2	2	-	-	-	-	-	-	-	-	-	-	2

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 PARIS WEST LAKE  
 65 ACRES  
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 Year periods stratified.  
 Fishing modes (boat vs. shore) stratified.  
 Day types (weekday vs. weekend/holiday) stratified.  
 Day periods (morning, midday, and afternoon) stratified.  
 Yearperiod 4 coalesced with yearperiod 5.

SAMPLING RATIO: 160/693 = 23.1%

NUMBER OF INTERVIEWS: 514

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	712	348-1077 ( 51%)	11	5-17 ( 51%)	9%
	HOLIDAY	2257	1623-2892 ( 28%)	35	25-44 ( 28%)	23%
	TOTAL	2970	2279-3660 ( 23%)	46	35-56 ( 23%)	19%
SHORE	WEEKDAY	3542	2633-4451 ( 26%)	54	41-68 ( 26%)	7%
	HOLIDAY	3272	2503-4040 ( 23%)	50	39-62 ( 23%)	18%
	TOTAL	6814	5695-7932 ( 16%)	105	88-122 ( 16%)	13%
BOAT & SHORE	WEEKDAY	4255	3320-5189 ( 22%)	65	51-80 ( 22%)	7%
	HOLIDAY	5529	4604-6453 ( 17%)	85	71-99 ( 17%)	20%
	TOTAL	9783	8469-11098 ( 13%)	151	130-171 ( 13%)	15%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3368	1826-4911	( 46%)	.170	.091-.249 ( 46%)	128.05	51.82	All species
9	0-31	(234%)	.000	.000-.000 (162%)	0.35	0.14	Bluegill x Green su
6	0-32	(430%)	.000	.000-.005 (1271%	0.23	0.09	Black crappie
2121	704-3537	( 67%)	.099	.024-.173 ( 75%)	80.62	32.63	Bluegill
8	8-8	( 0%)	.001	.000-.011 (1271%	0.29	0.12	Carp
506	233-778	( 54%)	.034	.009-.059 ( 73%)	19.23	7.78	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
123	36-211	( 71%)	.010	.000-.094 (861%)	4.69	1.90	Green sunfish
31	0-117	(278%)	.003	.000-.011 (257%)	1.17	0.48	Gizzard shad
			****	NOT RECORDED ****			Longear sunfish x G
237	0-489	(106%)	.012	.002-.021 ( 79%)	9.01	3.65	Largemouth bass
10	0-32	(231%)	.000	.000-.001 (188%)	0.37	0.15	Longear sunfish
13	0-42	(220%)	.000	.000-.000 (223%)	0.50	0.20	Orangespotted sunfi
211	0-460	(118%)	.006	.000-.013 (136%)	8.01	3.24	White crappie
70	3-138	( 96%)	.005	.000-.014 (177%)	2.67	1.08	Yellow bullhead
24	0-67	(183%)	.001	.000-.002 (169%)	0.90	0.37	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
643	379-906	( 41%)	.035	.021-.048 ( 38%)	24.43	0.191	All species
1	0-1	(167%)	.000	.000-.000 (178%)	0.02	0.058	Bluegill x Green su
1	0-8	(430%)	.000	.000-.000 (430%)	0.06	0.248	Black crappie
162	58-266	( 64%)	.008	.001-.015 ( 84%)	6.16	0.076	Bluegill
0	0-0	( 0%)	.000	.000-.000 (1271%	0.00	0.004	Carp
177	81-273	( 54%)	.011	.004-.019 ( 64%)	6.72	0.350	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
9	3-15	( 69%)	.001	.000-.008 (847%)	0.34	0.073	Green sunfish
2	0-7	(278%)	.000	.000-.001 (278%)	0.07	0.057	Gizzard shad
			****	NOT RECORDED ****			Longear sunfish x G
212	19-405	( 91%)	.012	.002-.022 ( 83%)	8.07	0.896	Largemouth bass
1	0-2	(173%)	.000	.000-.000 (197%)	0.02	0.067	Longear sunfish
1	0-2	(220%)	.000	.000-.000 (223%)	0.03	0.054	Orangespotted sunfi
64	0-154	(140%)	.002	.000-.004 (132%)	2.43	0.304	White crappie
12	0-25	(112%)	.001	.000-.003 (213%)	0.45	0.168	Yellow bullhead
1	0-4	(172%)	.000	.000-.000 (159%)	0.05	0.058	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
1417	836-1998	( 41%)	.077	.047-.107 ( 38%)	21.80	0.421	All species
1	0-3	(167%)	.000	.000-.000 (178%)	0.02	0.128	Bluegill x Green su
3	0-45	(1271%)	.000	.000-.001 (430%)	0.05	0.547	Black crappie
357	127-587	( 64%)	.018	.003-.032 ( 84%)	5.49	0.168	Bluegill
0	0-0	( 0%)	.000	.000-.000 (1271%)	0.00	0.008	Carp
390	179-601	( 54%)	.025	.009-.041 ( 64%)	6.00	0.771	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
20	6-33	( 69%)	.002	.000-.017 (847%)	0.30	0.160	Green sunfish
4	0-15	(278%)	.000	.000-.001 (257%)	0.06	0.127	Gizzard shad
			****	NOT RECORDED ****			Longear sunfish x G
468	43-894	( 91%)	.026	.005-.048 ( 83%)	7.20	1.975	Largemouth bass
1	0-4	(173%)	.000	.000-.000 (197%)	0.02	0.147	Longear sunfish
2	0-5	(223%)	.000	.000-.000 (220%)	0.02	0.120	Orangespotted sunfi
141	0-339	(140%)	.004	.000-.008 (132%)	2.17	0.669	White crappie
26	0-55	(112%)	.002	.000-.006 (213%)	0.40	0.370	Yellow bullhead
3	0-8	(172%)	.000	.000-.000 (159%)	0.05	0.127	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
16136	11354-20919	( 30%)	.846	.668-1.024( 21%)	613.43	248.25	All species
14	0-34	(145%)	.001	.000-.002 (192%)	0.52	0.21	Bluegill x Green su
455	124-785	( 73%)	.067	.000-.157 (135%)	17.29	7.00	Black crappie
8661	5828-11494	( 33%)	.419	.291-.548 ( 31%)	329.25	133.25	Bluegill
84	0-204	(141%)	.005	.000-.012 (134%)	3.21	1.30	Carp
1247	813-1680	( 35%)	.079	.044-.113 ( 44%)	47.39	19.18	Channel catfish
38	0-117	(205%)	.001	.000-.003 (199%)	1.45	0.59	Crappie spp.
252	131-373	( 48%)	.016	.000-.104 (571%)	9.59	3.88	Green sunfish
31	0-117	(278%)	.003	.000-.011 (257%)	1.17	0.48	Gizzard shad
63	0-203	(223%)	.001	.000-.004 (223%)	2.39	0.97	Longear sunfish x G
2489	1808-3170	( 27%)	.146	.100-.192 ( 32%)	94.61	38.29	Largemouth bass
55	0-112	(102%)	.002	.000-.004 (109%)	2.11	0.85	Longear sunfish
13	0-42	(220%)	.000	.000-.000 (223%)	0.50	0.20	Orangespotted sunfi
2362	0-5869	(148%)	.086	.005-.166 ( 94%)	89.79	36.34	White crappie
252	89-415	( 65%)	.014	.004-.024 ( 73%)	9.57	3.87	Yellow bullhead
121	0-256	(111%)	.006	.000-.013 (103%)	4.61	1.87	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
2360	1792-2927	( 24%)	.131	.102-.159 ( 22%)	89.70	0.146	All species
1	0-2	(125%)	.000	.000-.000 (186%)	0.03	0.057	Bluegill x Green su
26	10-43	( 63%)	.004	.000-.009 (147%)	1.00	0.058	Black crappie
404	255-553	( 37%)	.020	.012-.028 ( 41%)	15.37	0.047	Bluegill
84	0-283	(238%)	.004	.000-.015 (235%)	3.18	0.992	Carp
316	201-431	( 36%)	.020	.012-.028 ( 41%)	12.00	0.253	Channel catfish
1	0-4	(218%)	.000	.000-.000 (174%)	0.05	0.037	Crappie spp.
16	8-25	( 53%)	.001	.000-.008 (637%)	0.61	0.064	Green sunfish
2	0-7	(278%)	.000	.000-.001 (278%)	0.07	0.057	Gizzard shad
4	0-12	(220%)	.000	.000-.000 (220%)	0.14	0.058	Longear sunfish x G
1292	876-1707	( 32%)	.074	.049-.099 ( 34%)	49.10	0.519	Largemouth bass
3	0-5	(103%)	.000	.000-.000 (109%)	0.10	0.049	Longear sunfish
1	0-2	(220%)	.000	.000-.000 (223%)	0.03	0.054	Orangespotted sunfi
167	0-401	(140%)	.005	.001-.009 ( 80%)	6.34	0.071	White crappie
39	3-75	( 92%)	.002	.000-.005 (109%)	1.49	0.155	Yellow bullhead
5	0-10	( 94%)	.000	.000-.000 ( 73%)	0.19	0.041	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
5202	3950-6454	( 24%)	.288	.225-.351 ( 22%)	80.03	0.322	All species
2	0-4	(125%)	.000	.000-.000 (186%)	0.03	0.126	Bluegill x Green su
58	21-95	( 63%)	.008	.000-.021 (147%)	0.89	0.128	Black crappie
891	563-1220	( 37%)	.043	.025-.061 ( 41%)	13.71	0.103	Bluegill
185	0-624	(238%)	.010	.000-.032 (235%)	2.84	2.188	Carp
696	442-950	( 36%)	.044	.026-.061 ( 41%)	10.71	0.558	Channel catfish
3	0-10	(218%)	.000	.000-.000 (174%)	0.05	0.082	Crappie spp.
36	17-54	( 53%)	.003	.000-.018 (637%)	0.55	0.141	Green sunfish
4	0-15	(278%)	.000	.000-.001 (257%)	0.06	0.127	Gizzard shad
8	0-26	(220%)	.000	.000-.001 (220%)	0.12	0.128	Longear sunfish x G
2847	1931-3763	( 32%)	.163	.108-.218 ( 34%)	43.80	1.144	Largemouth bass
6	0-12	(103%)	.000	.000-.000 (109%)	0.09	0.108	Longear sunfish
2	0-5	(223%)	.000	.000-.000 (220%)	0.02	0.120	Orangespotted sunfi
368	0-885	(140%)	.011	.002-.021 ( 80%)	5.66	0.156	White crappie
86	7-166	( 92%)	.005	.000-.010 (109%)	1.33	0.343	Yellow bullhead
11	1-21	( 94%)	.000	.000-.001 ( 73%)	0.17	0.090	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	3.4-4.8 ( 17%)	0.5	8.0	58
SHORE	1.2	1.0-1.4 ( 17%)	0.2	7.5	98
BOAT & SHORE	2.3	1.9-2.7 ( 16%)	0.2	8.0	156
MILES TRAVELED	11.6	7.7-15.6 ( 34%)	1	800	448
SUCCESS RATING (1-10)	4.1	3.8-4.3 ( 6%)	1	10	447

\*32 samples were from split interviews of completed trips.  
32.4% of all 482 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 482 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	49	64	7							
SHORE INTERVIEWS	165	119	49	18	9	2				

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

158 ( 32.8%)	ANY	All species
1 ( 0.2%)	BLC	Black crappie
45 ( 9.3%)	BLG	Bluegill
2 ( 0.4%)	CAP	Carp
75 ( 15.6%)	CAT	Unidentified catfish
64 ( 13.3%)	CCF	Channel catfish
14 ( 2.9%)	CRP	Crappie spp.
123 ( 25.5%)	LMB	Largemouth bass



Table 11. Number of anglers with a given harvest &amp; 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	241	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	234	2	-	3	2	1	-	1	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	230	2	5	-	-	2	2	2	-	-	-	-	-	-	-	-
RELEASE	183	16	10	7	7	7	9	-	-	-	2	-	-	-	-	2
Carp																
HARVEST	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	242	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	230	9	-	4	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	204	27	10	-	-	2	-	-	-	-	-	-	-	-	-	-
Crappie spp.																
HARVEST	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	242	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	235	6	-	-	-	2	-	-	-	-	-	-	-	-	-	-
RELEASE	233	2	2	2	2	-	2	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	242	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	238	2	1	-	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	177	26	4	9	5	-	4	3	3	4	2	1	-	1	-	4
Longear sunfish																
HARVEST	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Orangespotted sunfish																
HARVEST	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	237	2	-	-	-	-	4	-	-	-	-	-	-	-	-	-
RELEASE	218	12	2	2	5	-	-	-	-	-	-	-	-	-	-	4
Yellow bullhead																
HARVEST	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	234	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-

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	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	241	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 REND LAKE  
 16135 ACRES  
 REGION 0, DISTRICT 0

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 466/693 = 67.2%

NUMBER OF INTERVIEWS: 2893

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	47690	40500-54880 ( 15%)	3	3-3 ( 15%)	6%
	HOLIDAY	47531	37539-57522 ( 21%)	3	2-4 ( 21%)	12%
	TOTAL	95220	82911-107530 ( 13%)	6	5-7 ( 13%)	9%
SHORE	WEEKDAY	12328	10314-14342 ( 16%)	1	1-1 ( 16%)	5%
	HOLIDAY	10594	8521-12666 ( 20%)	1	1-1 ( 20%)	9%
	TOTAL	22922	20032-25812 ( 13%)	1	1-2 ( 13%)	7%
BOAT & SHORE	WEEKDAY	60018	52551-67484 ( 12%)	4	3-4 ( 12%)	6%
	HOLIDAY	58125	47920-68329 ( 18%)	4	3-4 ( 18%)	11%
	TOTAL	118142	105498-130787 ( 11%)	7	7-8 ( 11%)	9%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
91234	78458-104010	( 14%)	.452	.387-.517 ( 14%)	13.97	5.65	All species
8	0-28	(231%)	.000	.000-.000 (226%)	0.00	0.00	Bigmouth buffalo
291	37-544	( 87%)	.001	.000-.003 ( 78%)	0.04	0.02	Black crappie
4005	1386-6623	( 65%)	.013	.005-.022 ( 64%)	0.61	0.25	Bluegill
			****	NOT RECORDED ****			Bowfin
95	0-216	(129%)	.000	.000-.001 (125%)	0.01	0.01	Carp
33186	27280-39092	( 18%)	.178	.141-.216 ( 21%)	5.08	2.06	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
156	36-276	( 77%)	.001	.000-.001 ( 81%)	0.02	0.01	Flathead catfish
142	38-246	( 73%)	.000	.000-.001 ( 89%)	0.02	0.01	Freshwater drum
50	0-155	(207%)	.000	.000-.001 (208%)	0.01	0.00	Green sunfish
318	28-608	( 91%)	.001	.000-.001 (123%)	0.05	0.02	Largemouth bass
145	0-461	(218%)	.000	.000-.001 (216%)	0.02	0.01	Longear sunfish
14	0-41	(196%)	.000	.000-.000 (196%)	0.00	0.00	Redear sunfish
			****	NOT RECORDED ****			Smallmouth buffalo
38	0-117	(207%)	.000	.000-.000 (208%)	0.01	0.00	Striped bass x Whit
			****	NOT RECORDED ****			Shortnose gar
18	0-39	(116%)	.000	.000-.000 (145%)	0.00	0.00	Warmouth
3739	1430-6048	( 62%)	.008	.003-.013 ( 67%)	0.57	0.23	White bass
48926	39358-58493	( 20%)	.246	.194-.299 ( 21%)	7.49	3.03	White crappie
			****	NOT RECORDED ****			Yellow bullhead
104	0-251	(142%)	.002	.000-.005 (206%)	0.02	0.01	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
40246	34527-45964	( 14%)	.209	.175-.243 ( 16%)	6.16	0.441	All species
33	0-108	(226%)	.000	.000-.001 (226%)	0.01	3.929	Bigmouth buffalo
118	7-229	( 94%)	.001	.000-.001 ( 91%)	0.02	0.406	Black crappie
375	119-631	( 68%)	.001	.000-.002 ( 65%)	0.06	0.094	Bluegill
			****	NOT RECORDED ****			Bowfin
244	0-563	(131%)	.001	.000-.002 (136%)	0.04	2.581	Carp
26074	21365-30783	( 18%)	.146	.114-.178 ( 22%)	3.99	0.786	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
640	12-1268	( 98%)	.002	.000-.004 (101%)	0.10	4.101	Flathead catfish
73	16-131	( 78%)	.000	.000-.001 ( 93%)	0.01	0.517	Freshwater drum
6	0-19	(207%)	.000	.000-.000 (207%)	0.00	0.120	Green sunfish
240	27-452	( 89%)	.000	.000-.001 (117%)	0.04	0.753	Largemouth bass
4	0-12	(218%)	.000	.000-.000 (218%)	0.00	0.025	Longear sunfish
3	0-8	(196%)	.000	.000-.000 (196%)	0.00	0.186	Redear sunfish
			****	NOT RECORDED ****			Smallmouth buffalo
79	0-242	(208%)	.000	.000-.001 (207%)	0.01	2.073	Striped bass x Whit
			****	NOT RECORDED ****			Shortnose gar
2	0-6	(132%)	.000	.000-.000 (157%)	0.00	0.135	Warmouth
1380	475-2284	( 66%)	.003	.001-.005 ( 72%)	0.21	0.369	White bass
10961	8849-13074	( 19%)	.054	.042-.065 ( 22%)	1.68	0.224	White crappie
			****	NOT RECORDED ****			Yellow bullhead
15	0-39	(158%)	.000	.000-.001 (206%)	0.00	0.146	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
88727	76120-101334 ( 14%)	.460	.385-.535 ( 16%)	5.50	0.973	All species
73	0-237 (226%)	.000	.000-.002 (226%)	0.00	8.662	Bigmouth buffalo
260	15-505 ( 94%)	.001	.000-.002 ( 91%)	0.02	0.895	Black crappie
826	262-1391 ( 68%)	.003	.001-.004 ( 65%)	0.05	0.206	Bluegill
		****	NOT RECORDED ****			Bowfin
538	0-1241 (131%)	.002	.000-.005 (136%)	0.03	5.690	Carp
57483	47101-67865 ( 18%)	.321	.250-.392 ( 22%)	3.56	1.732	Channel catfish
		****	NOT RECORDED ****			Crappie spp.
1410	26-2795 ( 98%)	.005	.000-.009 (101%)	0.09	9.041	Flathead catfish
162	35-288 ( 78%)	.001	.000-.001 ( 93%)	0.01	1.140	Freshwater drum
13	0-41 (208%)	.000	.000-.000 (208%)	0.00	0.265	Green sunfish
528	59-997 ( 89%)	.001	.000-.002 (117%)	0.03	1.660	Largemouth bass
8	0-25 (216%)	.000	.000-.000 (218%)	0.00	0.055	Longear sunfish
6	0-17 (196%)	.000	.000-.000 (196%)	0.00	0.410	Redear sunfish
		****	NOT RECORDED ****			Smallmouth buffalo
173	0-532 (207%)	.001	.000-.002 (207%)	0.01	4.569	Striped bass x Whit
		****	NOT RECORDED ****			Shortnose gar
5	0-12 (132%)	.000	.000-.000 (157%)	0.00	0.297	Warmouth
3041	1047-5036 ( 66%)	.007	.002-.011 ( 72%)	0.19	0.813	White bass
24166	19508-28824 ( 19%)	.118	.093-.144 ( 22%)	1.50	0.494	White crappie
		****	NOT RECORDED ****			Yellow bullhead
33	0-86 (158%)	.000	.000-.001 (206%)	0.00	0.322	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
194177	165988-222367( 15%)	.977	.842-1.111( 14%)	29.74	12.03	All species
8	0-28 (231%)	.000	.000-.000 (226%)	0.00	0.00	Bigmouth buffalo
312	57-568 ( 82%)	.001	.000-.003 ( 76%)	0.05	0.02	Black crappie
10288	5380-15196 ( 48%)	.061	.029-.093 ( 53%)	1.58	0.64	Bluegill
11	0-26 (139%)	.000	.000-.000 (141%)	0.00	0.00	Bowfin
260	31-488 ( 88%)	.002	.000-.005 (134%)	0.04	0.02	Carp
36765	30191-43339 ( 18%)	.210	.161-.259 ( 23%)	5.63	2.28	Channel catfish
109	0-338 (209%)	.001	.000-.002 (209%)	0.02	0.01	Crappie spp.
156	36-276 ( 77%)	.001	.000-.001 ( 81%)	0.02	0.01	Flathead catfish
1491	990-1991 ( 34%)	.006	.002-.010 ( 61%)	0.23	0.09	Freshwater drum
127	0-262 (106%)	.001	.000-.002 (105%)	0.02	0.01	Green sunfish
15227	12163-18290 ( 20%)	.041	.034-.049 ( 18%)	2.33	0.94	Largemouth bass
401	0-844 (111%)	.001	.000-.002 (130%)	0.06	0.02	Longear sunfish
14	0-41 (196%)	.000	.000-.000 (196%)	0.00	0.00	Redear sunfish
40	0-131 (226%)	.002	.000-.005 (226%)	0.01	0.00	Smallmouth buffalo
254	0-727 (186%)	.001	.000-.003 (169%)	0.04	0.02	Striped bass x Whit
4	0-13 (216%)	.000	.000-.000 (214%)	0.00	0.00	Shortnose gar
899	312-1486 ( 65%)	.002	.001-.004 ( 64%)	0.14	0.06	Warmouth
5158	1868-8447 ( 64%)	.014	.005-.022 ( 62%)	0.79	0.32	White bass
122366	96826-147907( 21%)	.630	.509-.752 ( 19%)	18.74	7.58	White crappie
8	0-23 (196%)	.000	.000-.000 (196%)	0.00	0.00	Yellow bullhead
280	42-519 ( 85%)	.002	.000-.006 (153%)	0.04	0.02	Yellow bass

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
54020	47193-60848 ( 13%)	.272	.231-.312 ( 15%)	8.27	0.278	All species
33	0-108 (226%)	.000	.000-.001 (226%)	0.01	3.929	Bigmouth buffalo
119	7-230 ( 94%)	.001	.000-.001 ( 91%)	0.02	0.380	Black crappie
645	326-964 ( 49%)	.003	.002-.005 ( 46%)	0.10	0.063	Bluegill
1	0-2 (139%)	.000	.000-.000 (141%)	0.00	0.067	Bowfin
605	0-1236 (104%)	.006	.000-.014 (150%)	0.09	2.332	Carp
26868	22087-31650 ( 18%)	.151	.118-.184 ( 22%)	4.11	0.731	Channel catfish
1	0-4 (209%)	.000	.000-.000 (210%)	0.00	0.012	Crappie spp.
640	12-1268 ( 98%)	.002	.000-.004 (101%)	0.10	4.101	Flathead catfish
1592	782-2403 ( 51%)	.007	.000-.015 (101%)	0.24	1.068	Freshwater drum
12	0-26 (118%)	.000	.000-.000 (113%)	0.00	0.096	Green sunfish
8909	7022-10795 ( 21%)	.023	.019-.028 ( 20%)	1.36	0.585	Largemouth bass
13	0-27 (108%)	.000	.000-.000 (137%)	0.00	0.033	Longear sunfish
3	0-8 (196%)	.000	.000-.000 (196%)	0.00	0.186	Redear sunfish
156	0-510 (226%)	.006	.000-.021 (231%)	0.02	3.903	Smallmouth buffalo
146	0-373 (157%)	.001	.000-.002 (138%)	0.02	0.573	Striped bass x Whit
1	0-4 (216%)	.000	.000-.000 (216%)	0.00	0.305	Shortnose gar
86	24-148 ( 72%)	.000	.000-.000 ( 66%)	0.01	0.096	Warmouth
1555	575-2534 ( 63%)	.004	.002-.007 ( 64%)	0.24	0.301	White bass
12597	10223-14971 ( 19%)	.066	.050-.082 ( 24%)	1.93	0.103	White crappie
1	0-3 (196%)	.000	.000-.000 (196%)	0.00	0.112	Yellow bullhead
38	0-78 (108%)	.000	.000-.001 (144%)	0.01	0.134	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
119095	104042-134148 ( 13%)	.599	.510-.688 ( 15%)	7.38	0.613	All species
73	0-237 (226%)	.000	.000-.002 (226%)	0.00	8.662	Bigmouth buffalo
261	16-506 ( 94%)	.001	.000-.002 ( 91%)	0.02	0.837	Black crappie
1421	718-2125 ( 49%)	.007	.004-.010 ( 46%)	0.09	0.138	Bluegill
2	0-4 (139%)	.000	.000-.000 (141%)	0.00	0.148	Bowfin
1335	0-2725 (104%)	.012	.000-.031 (150%)	0.08	5.142	Carp
59235	48694-69775 ( 18%)	.333	.260-.406 ( 22%)	3.67	1.611	Channel catfish
3	0-9 (209%)	.000	.000-.000 (209%)	0.00	0.027	Crappie spp.
1410	26-2795 ( 98%)	.005	.000-.009 (101%)	0.09	9.041	Flathead catfish
3510	1723-5298 ( 51%)	.016	.000-.032 (101%)	0.22	2.355	Freshwater drum
27	0-58 (118%)	.000	.000-.000 (113%)	0.00	0.211	Green sunfish
19640	15481-23800 ( 21%)	.052	.041-.062 ( 20%)	1.22	1.290	Largemouth bass
29	0-60 (108%)	.000	.000-.000 (137%)	0.00	0.072	Longear sunfish
6	0-17 (196%)	.000	.000-.000 (196%)	0.00	0.410	Redear sunfish
345	0-1140 (231%)	.014	.000-.047 (231%)	0.02	8.605	Smallmouth buffalo
321	0-823 (157%)	.002	.000-.005 (138%)	0.02	1.262	Striped bass x Whit
3	0-9 (216%)	.000	.000-.000 (216%)	0.00	0.673	Shortnose gar
190	54-326 ( 72%)	.000	.000-.001 ( 66%)	0.01	0.211	Warmouth
3427	1268-5587 ( 63%)	.010	.004-.016 ( 64%)	0.21	0.665	White bass
27772	22539-33005 ( 19%)	.146	.111-.181 ( 24%)	1.72	0.227	White crappie
2	0-6 (196%)	.000	.000-.000 (196%)	0.00	0.247	Yellow bullhead
83	0-172 (108%)	.001	.000-.002 (144%)	0.01	0.296	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	3.5-3.9	( 5%)	0.5	11.1	553
SHORE	1.9	1.6-2.1	( 14%)	0.3	4.2	62
BOAT & SHORE	3.5	3.3-3.7	( 5%)	0.3	11.1	615
MILES TRAVELED	43.2	40.6-45.8	( 6%)	1	1000	2157
SUCCESS RATING (1-10)	3.3	3.2-3.4	( 3%)	1	10	2151

\*344 samples were from split interviews of completed trips.  
24.3% of all 2535 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 2535 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	1522	85	28	1	1				
SHORE INTERVIEWS	210	293	74	35	1					

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

241 ( 9.5%)	ANY	All species
16 ( 0.6%)	BLG	Bluegill
1 ( 0.0%)	CAP	Carp
638 ( 25.2%)	CAT	Unidentified catfish
7 ( 0.3%)	CCF	Channel catfish
793 ( 31.3%)	CRP	Crappie spp.
766 ( 30.2%)	LMB	Largemouth bass
1 ( 0.0%)	SUN	Sunfish spp. excluding Crappie and Black Bass
70 ( 2.8%)	WHB	White bass
2 ( 0.1%)	WHC	White crappie

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26+	
Bigmouth buffalo																												
HARVEST	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																												
HARVEST	1149	12	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1160	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																												
HARVEST	1143	2	2	-	3	6	3	-	-	-	1	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1120	11	5	10	-	4	2	6	-	-	4	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
Bowfin																												
HARVEST	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1161	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																												
HARVEST	1161	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1157	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																												
HARVEST	884	55	53	40	39	12	16	12	8	11	3	3	4	8	2	2	4	-	-	5	-	-	-	-	-	-	-	2
RELEASE	1078	54	11	10	4	2	1	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Flathead catfish																												
HARVEST	1148	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																												
HARVEST	1152	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1119	33	10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																												
HARVEST	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1161	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Table 11, continued. Number of anglers with a given harvest &amp; release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26+	
Largemouth bass																												
HARVEST	1153	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	868	143	64	36	32	6	5	4	3	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Longear sunfish																												
HARVEST	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1157	-	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth buffalo																												
HARVEST	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1162	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass x White bass hybrid (Wiper)																												
HARVEST	1160	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1159	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Shortnose gar																												
HARVEST	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1161	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																												
HARVEST	1163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1133	24	4	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																												
HARVEST	1152	-	6	-	-	-	-	-	-	-	2	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1140	18	-	2	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																												
HARVEST	894	11	33	32	35	38	21	12	20	10	13	-	13	5	1	2	1	3	3	-	3	2	2	3	-	6	-	-
RELEASE	836	43	15	36	17	62	22	12	27	4	32	-	5	14	-	14	2	4	-	1	8	-	2	-	2	-	7	-
Yellow bass																												
HARVEST	1160	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1156	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 REND LAKE  
 NOVEMBER CREEL SURVEY

4207 ACRES  
 REGION 0, DISTRICT 0

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 11/01/2004 through 11/30/2004  
 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: 33/90 = 36.7%

NUMBER OF INTERVIEWS: 100

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	1365	337-2393 ( 75%)	0	0-1 ( 75%)	6%
	HOLIDAY	1391	267-2516 ( 81%)	0	0-1 ( 81%)	13%
	TOTAL	2756	1335-4178 ( 52%)	1	0-1 ( 52%)	9%
SHORE	WEEKDAY	662	0-1356 (105%)	0	0-0 (105%)	5%
	HOLIDAY	400	0-846 (111%)	0	0-0 (111%)	6%
	TOTAL	1063	308-1818 ( 71%)	0	0-0 ( 71%)	5%
BOAT & SHORE	WEEKDAY	2028	872-3183 ( 57%)	0	0-1 ( 57%)	5%
	HOLIDAY	1792	624-2960 ( 65%)	0	0-1 ( 65%)	11%
	TOTAL	3819	2257-5382 ( 41%)	1	1-1 ( 41%)	8%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
10880	5005-16756 ( 54%)	1.673	.888-2.459( 47%)	6.39	2.59	All species
83	0-199 (139%)	.007	.000-.020 (183%)	0.05	0.02	Black crappie
		****	NOT RECORDED ****			Channel catfish
		****	NOT RECORDED ****			Largemouth bass
		****	NOT RECORDED ****			White bass
10797	4968-16627 ( 54%)	1.666	.883-2.449( 47%)	6.34	2.57	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
1906	874-2938 ( 54%)	.292	.164-.421 ( 44%)	1.12	0.175	All species
23	0-53 (136%)	.002	.000-.005 (177%)	0.01	0.271	Black crappie
		****	NOT RECORDED ****			Channel catfish
		****	NOT RECORDED ****			Largemouth bass
		****	NOT RECORDED ****			White bass
1884	869-2898 ( 54%)	.290	.163-.418 ( 44%)	1.11	0.174	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
4203	1928-6478 ( 54%)	.645	.362-.927 ( 44%)	1.00	0.386	All species
50	0-117 (136%)	.004	.000-.011 (177%)	0.01	0.598	Black crappie
		****	NOT RECORDED ****			Channel catfish
		****	NOT RECORDED ****			Largemouth bass
		****	NOT RECORDED ****			White bass
4153	1916-6390 ( 54%)	.640	.359-.922 ( 44%)	0.99	0.385	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
23587	11480-35693	( 51%)	3.666	1.904-5.428( 48%)	13.85	5.61	All species
83	0-199	(139%)	.007	.000-.020 (183%)	0.05	0.02	Black crappie
12	0-45	(278%)	.002	.000-.007 (318%)	0.01	0.00	Channel catfish
61	0-145	(136%)	.003	.000-.010 (173%)	0.04	0.01	Largemouth bass
6	0-23	(278%)	.002	.000-.008 (318%)	0.00	0.00	White bass
23424	11395-35453	( 51%)	3.652	1.891-5.413( 48%)	13.76	5.57	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
2150	978-3321	( 55%)	.323	.178-.468 ( 45%)	1.26	0.091	All species
23	0-53	(136%)	.002	.000-.005 (177%)	0.01	0.271	Black crappie
3	0-11	(318%)	.000	.000-.001 (318%)	0.00	0.213	Channel catfish
46	0-107	(132%)	.002	.000-.006 (148%)	0.03	0.750	Largemouth bass
0	0-1	(278%)	.000	.000-.000 (278%)	0.00	0.042	White bass
2078	962-3195	( 54%)	.318	.174-.462 ( 45%)	1.22	0.089	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
4739	2156-7323	( 55%)	.712	.392-1.031( 45%)	1.13	0.201	All species
50	0-117	(136%)	.004	.000-.011 (177%)	0.01	0.598	Black crappie
6	0-24	(318%)	.001	.000-.003 (278%)	0.00	0.469	Channel catfish
101	0-236	(132%)	.005	.000-.013 (148%)	0.02	1.654	Largemouth bass
1	0-2	(318%)	.000	.000-.001 (278%)	0.00	0.092	White bass
4582	2122-7043	( 54%)	.701	.383-1.019( 45%)	1.09	0.196	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	2.8	2.5-3.2	( 13%)	1.2	5.0	42
SHORE	1.7	0.4-3.1	( 77%)	0.7	3.8	6
BOAT & SHORE	2.7	2.3-3.0	( 13%)	0.7	5.0	48
MILES TRAVELED	19.3	16.9-21.8	( 13%)	3	60	73
SUCCESS RATING (1-10)	3.6	3.0-4.3	( 18%)	1	10	73

\*20 samples were from split interviews of completed trips.  
60.0% of all 80 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 80 interviews with illegal harvests.

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

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	10	34	7							
SHORE INTERVIEWS	11	14	2	2						

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

76 ( 95.0%)	CRP	Crappie spp.
4 ( 5.0%)	LMB	Largemouth bass

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26+	
Black crappie																												
HARVEST 81	7	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																												
HARVEST 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 88	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																												
HARVEST 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 86	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																												
HARVEST 90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 88	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																												
HARVEST 42	-	-	2	2	-	2	2	3	2	4	1	7	2	2	4	-	2	-	4	1	-	-	-	2	-	7	1	
RELEASE 29	5	2	2	2	2	4	2	-	3	-	7	2	3	2	-	7	-	3	-	-	7	-	-	-	-	5	5	

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 ROUND LAKE  
 227 ACRES  
 REGION 2, DISTRICT 7

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 297/693 = 42.9%

NUMBER OF INTERVIEWS: 948

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	2451	2008-2894 ( 18%)	11	9-13 ( 18%)	17%
	HOLIDAY	2420	1968-2873 ( 19%)	11	9-13 ( 19%)	50%
	TOTAL	4871	4257-5485 ( 13%)	21	19-24 ( 13%)	34%
SHORE	WEEKDAY	1548	1189-1908 ( 23%)	7	5-8 ( 23%)	16%
	HOLIDAY	1965	1532-2398 ( 22%)	9	7-11 ( 22%)	29%
	TOTAL	3513	2951-4076 ( 16%)	15	13-18 ( 16%)	23%
BOAT & SHORE	WEEKDAY	3999	3429-4569 ( 14%)	18	15-20 ( 14%)	17%
	HOLIDAY	4385	3779-4992 ( 14%)	19	17-22 ( 14%)	41%
	TOTAL	8384	7551-9217 ( 10%)	37	33-41 ( 10%)	29%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1318	872-1765	( 34%)	.091	.059-.123 ( 35%)	14.35	5.81	All species
2	0-9	(318%)	.000	.000-.000 (318%)	0.02	0.01	Black bullhead
148	13-283	( 91%)	.013	.000-.028 (108%)	1.61	0.65	Black crappie
733	418-1048	( 43%)	.044	.025-.064 ( 43%)	7.98	3.23	Bluegill
26	0-53	(100%)	.007	.000-.019 (177%)	0.29	0.12	Carp
15	0-36	(140%)	.001	.000-.001 (129%)	0.16	0.07	Channel catfish
5	0-16	(208%)	.001	.000-.002 (208%)	0.06	0.02	Golden shiner
70	25-115	( 64%)	.005	.001-.008 ( 70%)	0.76	0.31	Largemouth bass
			****	NOT RECORDED ****			Northern pike
100	8-191	( 92%)	.007	.000-.014 (106%)	1.09	0.44	Pumpkinseed
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Smallmouth bass
2	0-9	(318%)	.000	.000-.001 (318%)	0.02	0.01	Walleye
15	0-30	( 98%)	.001	.000-.001 ( 96%)	0.16	0.07	Warmouth
			****	NOT RECORDED ****			Yellow bullhead
193	66-320	( 66%)	.010	.002-.018 ( 77%)	2.10	0.85	Yellow perch
9	0-32	(236%)	.002	.000-.007 (236%)	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
167	109-224	( 35%)	.018	.004-.032 ( 77%)	1.81	0.126	All species
0	0-1	(430%)	.000	.000-.000 (318%)	0.00	0.074	Black bullhead
15	1-28	( 91%)	.002	.000-.003 (118%)	0.16	0.099	Black crappie
50	28-73	( 44%)	.003	.002-.005 ( 47%)	0.55	0.069	Bluegill
21	0-45	(115%)	.007	.000-.020 (204%)	0.23	0.797	Carp
16	0-42	(163%)	.001	.000-.001 (144%)	0.17	1.068	Channel catfish
1	0-2	(208%)	.000	.000-.000 (207%)	0.01	0.099	Golden shiner
42	16-68	( 61%)	.004	.001-.007 ( 83%)	0.46	0.602	Largemouth bass
			****	NOT RECORDED ****			Northern pike
6	0-11	( 99%)	.000	.000-.001 (108%)	0.06	0.055	Pumpkinseed
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Smallmouth bass
6	0-27	(318%)	.001	.000-.003 (278%)	0.07	2.886	Walleye
1	0-2	(109%)	.000	.000-.000 (109%)	0.01	0.077	Warmouth
			****	NOT RECORDED ****			Yellow bullhead
8	3-13	( 62%)	.001	.000-.001 ( 93%)	0.09	0.043	Yellow perch
1	0-2	(245%)	.000	.000-.000 (236%)	0.01	0.068	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
367	240-495	( 35%)	.039	.009-.070 ( 77%)	1.62	0.279	All species
0	0-2	(430%)	.000	.000-.000 (318%)	0.00	0.162	Black bullhead
32	3-62	( 91%)	.003	.000-.007 (118%)	0.14	0.218	Black crappie
111	62-160	( 44%)	.007	.004-.011 ( 47%)	0.49	0.152	Bluegill
47	0-100	(115%)	.015	.000-.045 (204%)	0.20	1.757	Carp
35	0-92	(163%)	.001	.000-.003 (144%)	0.15	2.353	Channel catfish
1	0-3	(208%)	.000	.000-.000 (208%)	0.00	0.218	Golden shiner
93	36-149	( 61%)	.008	.001-.015 ( 83%)	0.41	1.327	Largemouth bass
			****	NOT RECORDED ****			Northern pike
12	0-24	( 99%)	.001	.000-.002 (108%)	0.05	0.122	Pumpkinseed
			****	NOT RECORDED ****			Rock bass
			****	NOT RECORDED ****			Smallmouth bass
14	0-59	(318%)	.002	.000-.008 (318%)	0.06	6.362	Walleye
3	0-5	(109%)	.000	.000-.000 (109%)	0.01	0.171	Warmouth
			****	NOT RECORDED ****			Yellow bullhead
18	7-30	( 62%)	.001	.000-.002 ( 93%)	0.08	0.095	Yellow perch
1	0-5	(245%)	.000	.000-.001 (245%)	0.01	0.151	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
8963	6964-10963	( 22%)	.668	.480-.856 ( 28%)	97.57	39.49	All species
2	0-9	(318%)	.000	.000-.000 (318%)	0.02	0.01	Black bullhead
355	168-542	( 53%)	.028	.010-.045 ( 62%)	3.86	1.56	Black crappie
5760	3949-7571	( 31%)	.419	.242-.596 ( 42%)	62.70	25.38	Bluegill
39	10-68	( 74%)	.008	.000-.020 (155%)	0.43	0.17	Carp
33	8-58	( 76%)	.002	.000-.003 ( 88%)	0.36	0.14	Channel catfish
5	0-16	(208%)	.001	.000-.002 (208%)	0.06	0.02	Golden shiner
1239	1013-1466	( 18%)	.097	.073-.121 ( 25%)	13.49	5.46	Largemouth bass
4	0-9	(125%)	.000	.000-.001 (152%)	0.04	0.02	Northern pike
471	235-706	( 50%)	.042	.016-.069 ( 63%)	5.12	2.07	Pumpkinseed
6	0-15	(160%)	.000	.000-.001 (197%)	0.06	0.03	Rock bass
25	0-66	(159%)	.004	.000-.012 (199%)	0.28	0.11	Smallmouth bass
2	0-9	(318%)	.000	.000-.001 (318%)	0.02	0.01	Walleye
54	11-97	( 80%)	.003	.000-.007 (112%)	0.58	0.24	Warmouth
13	1-25	( 92%)	.001	.000-.002 (104%)	0.14	0.06	Yellow bullhead
940	663-1217	( 29%)	.060	.037-.084 ( 39%)	10.24	4.14	Yellow perch
15	0-38	(154%)	.002	.000-.007 (204%)	0.16	0.07	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
1260	1041-1479 ( 17%)	.099	.075-.123 ( 24%)	13.72	0.141	All species
0	0-1 (430%)	.000	.000-.000 (318%)	0.00	0.074	Black bullhead
30	13-47 ( 57%)	.003	.001-.005 ( 77%)	0.33	0.085	Black crappie
358	228-489 ( 36%)	.026	.013-.039 ( 51%)	3.90	0.062	Bluegill
33	7-59 ( 80%)	.008	.000-.021 (180%)	0.36	0.833	Carp
18	0-44 (141%)	.001	.000-.002 (122%)	0.20	0.563	Channel catfish
1	0-2 (208%)	.000	.000-.000 (207%)	0.01	0.099	Golden shiner
732	573-892 ( 22%)	.054	.035-.073 ( 35%)	7.97	0.591	Largemouth bass
7	0-18 (145%)	.001	.000-.002 (149%)	0.08	1.772	Northern pike
22	12-32 ( 47%)	.002	.001-.004 ( 75%)	0.24	0.046	Pumpkinseed
0	0-1 (160%)	.000	.000-.000 (197%)	0.00	0.063	Rock bass
5	0-14 (175%)	.001	.000-.003 (209%)	0.06	0.204	Smallmouth bass
6	0-27 (318%)	.001	.000-.003 (278%)	0.07	2.886	Walleye
4	1-7 ( 78%)	.000	.000-.000 (103%)	0.04	0.069	Warmouth
2	0-5 (113%)	.000	.000-.000 (122%)	0.02	0.171	Yellow bullhead
39	27-52 ( 32%)	.002	.002-.003 ( 35%)	0.43	0.042	Yellow perch
1	0-3 (124%)	.000	.000-.001 (175%)	0.02	0.099	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
2778	2296-3261 ( 17%)	.218	.165-.271 ( 24%)	12.24	0.310	All species
0	0-2 (430%)	.000	.000-.000 (318%)	0.00	0.162	Black bullhead
66	28-104 ( 57%)	.006	.001-.010 ( 77%)	0.29	0.187	Black crappie
790	503-1077 ( 36%)	.057	.028-.087 ( 51%)	3.48	0.137	Bluegill
72	14-130 ( 80%)	.017	.000-.047 (180%)	0.32	1.836	Carp
41	0-98 (141%)	.002	.000-.003 (122%)	0.18	1.241	Channel catfish
1	0-3 (208%)	.000	.000-.000 (208%)	0.00	0.218	Golden shiner
1615	1263-1967 ( 22%)	.119	.078-.161 ( 35%)	7.11	1.303	Largemouth bass
16	0-39 (145%)	.002	.000-.005 (149%)	0.07	3.908	Northern pike
48	25-70 ( 47%)	.005	.001-.008 ( 75%)	0.21	0.101	Pumpkinseed
1	0-2 (160%)	.000	.000-.000 (197%)	0.00	0.140	Rock bass
11	0-31 (175%)	.002	.000-.006 (209%)	0.05	0.449	Smallmouth bass
14	0-59 (318%)	.002	.000-.008 (318%)	0.06	6.362	Walleye
8	2-15 ( 78%)	.000	.000-.001 (103%)	0.04	0.152	Warmouth
5	0-10 (113%)	.000	.000-.001 (122%)	0.02	0.376	Yellow bullhead
87	59-115 ( 32%)	.005	.004-.007 ( 35%)	0.38	0.092	Yellow perch
3	0-7 (124%)	.000	.000-.001 (175%)	0.01	0.218	Yellow bass

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

	MEAN	95% CI	MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*					
BOAT	3.1	2.9-3.4 ( 8%)	0.5	9.1	291
SHORE	0.8	0.7-0.9 ( 12%)	0.3	3.5	110
BOAT & SHORE	2.5	2.3-2.7 ( 8%)	0.3	9.1	401
MILES TRAVELED	4.1	3.5-4.8 ( 15%)	1	65	777
SUCCESS RATING (1-10)	5.8	5.6-6.0 ( 3%)	1	10	643

\*139 samples were from split interviews of completed trips.

49.6% of all 808 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 1 out of 808 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	198	142	32	8	2					
SHORE INTERVIEWS	211	131	54	21	3	2		2		2

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

394 ( 48.8%)	ANY	All species
5 ( 0.6%)	BLC	Black crappie
15 ( 1.9%)	BLG	Bluegill
31 ( 3.8%)	CAP	Carp
2 ( 0.2%)	CCF	Channel catfish
359 ( 44.4%)	LMB	Largemouth bass
1 ( 0.1%)	NOP	Northern pike
1 ( 0.1%)	YEP	Yellow perch

Table 11. Number of anglers with a given harvest &amp; 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	623	1	2	-	2	2	-	-	-	-	-	-	-	2	-	-
RELEASE	597	25	2	3	-	-	1	-	-	-	1	-	1	-	-	2
Bluegill																
HARVEST	608	12	-	6	4	1	-	-	-	1	-	-	-	-	-	-
RELEASE	521	53	20	10	5	2	-	-	2	-	3	-	3	-	-	13
Carp																
HARVEST	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	630	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	628	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	626	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Golden shiner																
HARVEST	630	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	621	9	-	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	418	144	47	13	8	1	1	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	629	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkinseed																
HARVEST	630	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	624	1	2	2	1	-	2	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	628	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	631	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	631	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	630	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11, continued. Number of anglers with a given harvest &amp; release for completed trips

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Yellow bullhead																
HARVEST	632	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	631	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	615	9	2	4	-	-	-	-	-	-	2	-	-	-	-	-
RELEASE	572	35	9	7	3	5	-	-	1	-	-	-	-	-	-	-
Yellow bass																
HARVEST	631	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
RELEASE	629	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 SPRING LAKE NORTH  
 578 ACRES  
 REGION 1, DISTRICT 5

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/21/2004  
 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: 305/663 = 46.0%

NUMBER OF INTERVIEWS: 2091

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	7502	6197-8807 ( 17%)	13	11-15 ( 17%)	21%
	HOLIDAY	9310	7484-11135 ( 20%)	16	13-19 ( 20%)	51%
	TOTAL	16812	14636-18987 ( 13%)	29	25-33 ( 13%)	37%
SHORE	WEEKDAY	3565	3017-4113 ( 15%)	6	5-7 ( 15%)	13%
	HOLIDAY	2940	2502-3377 ( 15%)	5	4-6 ( 15%)	36%
	TOTAL	6505	5817-7193 ( 11%)	11	10-12 ( 11%)	23%
BOAT & SHORE	WEEKDAY	11067	9652-12482 ( 13%)	19	17-22 ( 13%)	18%
	HOLIDAY	12249	10382-14117 ( 15%)	21	18-24 ( 15%)	47%
	TOTAL	23316	21035-25598 ( 10%)	40	36-44 ( 10%)	34%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
6252	3568-8937	( 43%)	.277	.195-.360 ( 30%)	26.73	10.82	All species
163	27-300	( 84%)	.003	.001-.005 ( 79%)	0.70	0.28	Black crappie
5203	2624-7781	( 50%)	.225	.154-.296 ( 32%)	22.24	9.00	Bluegill
			****	NOT RECORDED ****			Carp
135	36-234	( 73%)	.007	.001-.013 ( 86%)	0.58	0.23	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
54	0-109	(101%)	.002	.000-.005 ( 95%)	0.23	0.09	Green sunfish
308	192-424	( 38%)	.013	.006-.020 ( 57%)	1.32	0.53	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
1	0-4	(318%)	.000	.000-.000 (430%)	0.00	0.00	Rock bass
197	73-320	( 63%)	.016	.002-.030 ( 89%)	0.84	0.34	Redear sunfish
6	0-18	(220%)	.000	.000-.001 (223%)	0.02	0.01	Threadfin shad
173	25-321	( 85%)	.011	.002-.020 ( 85%)	0.74	0.30	Warmouth
7	0-18	(154%)	.001	.000-.003 (204%)	0.03	0.01	Yellow bullhead
6	0-24	(318%)	.000	.000-.000 (430%)	0.02	0.01	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
982	733-1231	( 25%)	.049	.022-.075 ( 55%)	4.20	0.157	All species
40	6-75	( 85%)	.001	.000-.001 ( 82%)	0.17	0.247	Black crappie
342	185-499	( 46%)	.014	.010-.018 ( 31%)	1.46	0.066	Bluegill
			****	NOT RECORDED ****			Carp
196	26-367	( 87%)	.016	.000-.045 (186%)	0.84	1.455	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
2	0-3	(103%)	.000	.000-.000 ( 90%)	0.01	0.028	Green sunfish
350	202-498	( 42%)	.015	.006-.024 ( 59%)	1.50	1.135	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
0	0-0	(318%)	.000	.000-.000 (430%)	0.00	0.097	Rock bass
20	8-33	( 63%)	.001	.000-.003 ( 99%)	0.09	0.103	Redear sunfish
			****	NOT RECORDED ****			Threadfin shad
29	2-56	( 94%)	.002	.000-.004 ( 94%)	0.12	0.167	Warmouth
2	0-5	(154%)	.000	.000-.001 (204%)	0.01	0.304	Yellow bullhead
1	0-3	(318%)	.000	.000-.000 (430%)	0.00	0.133	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
2165	1616-2713	( 25%)	.107	.049-.166 ( 55%)	3.75	0.346	All species
89	13-165	( 85%)	.001	.000-.003 ( 82%)	0.15	0.545	Black crappie
753	408-1099	( 46%)	.031	.021-.040 ( 31%)	1.30	0.145	Bluegill
			****	NOT RECORDED ****			Carp
433	57-809	( 87%)	.034	.000-.098 (186%)	0.75	3.208	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
3	0-7	(103%)	.000	.000-.000 ( 90%)	0.01	0.061	Green sunfish
771	444-1097	( 42%)	.033	.013-.053 ( 59%)	1.33	2.501	Largemouth bass
			****	NOT RECORDED ****			Muskellunge
0	0-1	(318%)	.000	.000-.000 (318%)	0.00	0.213	Rock bass
45	17-73	( 63%)	.003	.000-.006 ( 99%)	0.08	0.228	Redear sunfish
			****	NOT RECORDED ****			Threadfin shad
64	4-123	( 94%)	.004	.000-.008 ( 94%)	0.11	0.367	Warmouth
5	0-12	(154%)	.001	.000-.002 (204%)	0.01	0.669	Yellow bullhead
2	0-9	(430%)	.000	.000-.000 (318%)	0.00	0.293	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
22231	18851-25612	( 15%)	.931	.774-1.088( 17%)	95.04	38.46	All species
935	390-1481	( 58%)	.035	.009-.061 ( 74%)	4.00	1.62	Black crappie
14082	10906-17258	( 23%)	.659	.516-.803 ( 22%)	60.20	24.36	Bluegill
2	0-11	(430%)	.000	.000-.002 (1271%)	0.01	0.00	Carp
170	64-276	( 62%)	.009	.003-.016 ( 68%)	0.73	0.29	Channel catfish
36	0-104	(188%)	.001	.000-.004 (193%)	0.15	0.06	Crappie spp.
59	4-115	( 93%)	.003	.000-.005 ( 90%)	0.25	0.10	Green sunfish
6068	4950-7185	( 18%)	.176	.144-.208 ( 18%)	25.94	10.50	Largemouth bass
296	164-428	( 45%)	.015	.007-.024 ( 54%)	1.26	0.51	Muskellunge
1	0-4	(318%)	.000	.000-.000 (430%)	0.00	0.00	Rock bass
354	77-630	( 78%)	.019	.004-.033 ( 77%)	1.51	0.61	Redear sunfish
6	0-18	(220%)	.000	.000-.001 (223%)	0.02	0.01	Threadfin shad
190	40-340	( 79%)	.011	.002-.020 ( 81%)	0.81	0.33	Warmouth
7	0-18	(154%)	.001	.000-.003 (204%)	0.03	0.01	Yellow bullhead
15	0-47	(203%)	.001	.000-.002 (290%)	0.07	0.03	Yellow bass



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

KG CAUGHT	95% CI		KG/HOUR	95% CI		KG/HA	AVE KG	SPECIES
6232	5176-7287	( 17%)	.205	.168-.242	( 18%)	26.64	0.280	All species
111	44-179	( 61%)	.004	.001-.007	( 77%)	0.47	0.119	Black crappie
541	374-708	( 31%)	.023	.018-.028	( 22%)	2.31	0.038	Bluegill
5	0-65	(1271%	.000	.000-.004	(1271%	0.02	2.383	Carp
212	40-384	( 81%)	.017	.000-.046	(175%)	0.91	1.250	Channel catfish
1	0-2	(153%)	.000	.000-.000	(150%)	0.00	0.026	Crappie spp.
2	0-4	( 89%)	.000	.000-.000	( 82%)	0.01	0.031	Green sunfish
4509	3500-5517	( 22%)	.117	.097-.136	( 17%)	19.27	0.743	Largemouth bass
782	439-1124	( 44%)	.041	.018-.063	( 56%)	3.34	2.642	Muskellunge
0	0-0	(318%)	.000	.000-.000	(430%)	0.00	0.097	Rock bass
34	3-65	( 91%)	.002	.000-.003	( 85%)	0.14	0.095	Redear sunfish
			****	NOT RECORDED	****			Threadfin shad
31	4-58	( 88%)	.002	.000-.004	( 93%)	0.13	0.163	Warmouth
2	0-5	(154%)	.000	.000-.001	(204%)	0.01	0.304	Yellow bullhead
3	0-9	(244%)	.000	.000-.000	(298%)	0.01	0.169	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
13739	11412-16066	( 17%)	.451	.369-.534	( 18%)	23.77	0.618	All species
245	96-394	( 61%)	.008	.002-.015	( 77%)	0.42	0.262	Black crappie
1193	824-1562	( 31%)	.051	.039-.062	( 22%)	2.06	0.085	Bluegill
11	0-144	(1271%	.001	.000-.009	(1271%	0.02	5.254	Carp
468	89-847	( 81%)	.036	.000-.100	(175%)	0.81	2.755	Channel catfish
2	0-5	(153%)	.000	.000-.000	(150%)	0.00	0.057	Crappie spp.
4	0-8	( 89%)	.000	.000-.000	( 82%)	0.01	0.069	Green sunfish
9940	7717-12162	( 22%)	.257	.214-.300	( 17%)	17.20	1.638	Largemouth bass
1723	968-2479	( 44%)	.089	.039-.140	( 56%)	2.98	5.825	Muskellunge
0	0-1	(318%)	.000	.000-.000	(318%)	0.00	0.213	Rock bass
74	6-142	( 91%)	.004	.001-.007	( 85%)	0.13	0.210	Redear sunfish
			****	NOT RECORDED	****			Threadfin shad
68	8-128	( 88%)	.004	.000-.008	( 93%)	0.12	0.360	Warmouth
5	0-12	(154%)	.001	.000-.002	(204%)	0.01	0.669	Yellow bullhead
6	0-20	(244%)	.000	.000-.001	(298%)	0.01	0.373	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	4.7	4.5-4.9 ( 5%)	0.5	13.6	567
SHORE	1.5	1.3-1.7 ( 13%)	0.3	5.7	84
BOAT & SHORE	4.3	4.1-4.5 ( 5%)	0.3	13.6	651
MILES TRAVELED	22.0	19.1-24.8 ( 13%)	1	1745	1562
SUCCESS RATING (1-10)	6.3	6.2-6.4 ( 2%)	1	10	1559

\*352 samples were from split interviews of completed trips.  
37.6% of all 1730 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 5 out of 1730 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	326	730	58	2		1				
SHORE INTERVIEWS	238	252	78	30	10	3	2			

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

24 ( 1.4%)	ANY	All species
101 ( 5.8%)	BLC	Black crappie
338 ( 19.5%)	BLG	Bluegill
2 ( 0.1%)	BSS	Black bass spp.
1 ( 0.1%)	CAP	Carp
168 ( 9.7%)	CCF	Channel catfish
8 ( 0.5%)	CRP	Crappie spp.
924 ( 53.4%)	LMB	Largemouth bass
163 ( 9.4%)	MUE	Muskellunge
1 ( 0.1%)	WAM	Warmouth

Table 11. Number of anglers with a given harvest &amp; 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 1175	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1157	19	-	3	1	-	1	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST 1150	10	-	-	2	2	5	2	6	-	-	-	-	2	-	2	
RELEASE 1075	25	15	14	5	3	2	1	8	-	19	-	-	-	-	-	14
Channel catfish																
HARVEST 1176	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST 1179	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST 1142	17	15	7	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 456	234	229	124	59	32	19	4	13	3	2	-	5	-	1	-	
Muskellunge																
HARVEST 1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1129	38	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST 1167	6	6	-	-	-	-	-	2	-	-	-	-	-	-	-	-
RELEASE 1177	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1
Warmouth																
HARVEST 1177	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1179	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST 1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST 1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 TAMPIER LAKE  
 160 ACRES  
 REGION 2, DISTRICT 8

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 208/693 = 30.0%

NUMBER OF INTERVIEWS: 1761

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	3436	2711-4161 ( 21%)	21	17-26 ( 21%)	6%
	HOLIDAY	3703	2929-4477 ( 21%)	23	18-28 ( 21%)	12%
	TOTAL	7139	6124-8154 ( 14%)	45	38-51 ( 14%)	9%
SHORE	WEEKDAY	25801	22291-29312 ( 14%)	161	139-183 ( 14%)	7%
	HOLIDAY	26675	21966-31385 ( 18%)	167	137-196 ( 18%)	13%
	TOTAL	52477	46880-58073 ( 11%)	328	293-363 ( 11%)	10%
BOAT & SHORE	WEEKDAY	29237	25669-32806 ( 12%)	183	160-205 ( 12%)	7%
	HOLIDAY	30378	25805-34952 ( 15%)	190	161-218 ( 15%)	13%
	TOTAL	59616	53928-65303 ( 10%)	373	337-408 ( 10%)	10%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
7972	5094-10850	( 36%)	.083	.003-.162 ( 96%)	123.12	49.82	All species
498	141-854	( 72%)	.004	.000-.008 ( 92%)	7.69	3.11	Black bullhead
240	28-452	( 88%)	.002	.000-.004 (107%)	3.70	1.50	Black crappie
1775	615-2934	( 65%)	.014	.005-.022 ( 63%)	27.41	11.09	Bluegill
12	0-28	(136%)	.000	.000-.000 (127%)	0.19	0.08	Brown bullhead
1444	858-2030	( 41%)	.016	.006-.026 ( 65%)	22.30	9.03	Carp
482	27-937	( 94%)	.003	.001-.006 ( 79%)	7.44	3.01	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
68	0-285	(318%)	.001	.000-.003 (318%)	1.05	0.43	Flathead catfish
434	8-860	( 98%)	.002	.000-.004 (100%)	6.71	2.71	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
31	0-71	(125%)	.000	.000-.003 (851%)	0.48	0.20	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Pumpkinseed
100	0-230	(130%)	.000	.000-.001 (152%)	1.55	0.63	Redear sunfish
27	0-71	(165%)	.000	.000-.000 (183%)	0.41	0.17	Walleye
23	0-66	(186%)	.000	.000-.000 (254%)	0.35	0.14	Warmouth
25	0-87	(245%)	.000	.000-.001 (245%)	0.39	0.16	White bass
302	0-613	(103%)	.005	.000-.014 (159%)	4.66	1.89	White crappie
97	0-338	(250%)	.001	.000-.003 (236%)	1.49	0.60	Yellow bullhead
9	0-33	(245%)	.000	.000-.000 (245%)	0.15	0.06	Yellow perch
2404	506-4303	( 79%)	.033	.000-.237 (627%)	37.13	15.03	Yellow bass

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1040	743-1337	( 29%)	.012	.007-.016 ( 40%)	16.06	0.130	All species
53	17-90	( 69%)	.000	.000-.001 ( 93%)	0.83	0.107	Black bullhead
16	4-29	( 78%)	.000	.000-.001 (150%)	0.25	0.069	Black crappie
94	38-150	( 60%)	.001	.000-.002 ( 80%)	1.45	0.053	Bluegill
1	0-3	(129%)	.000	.000-.000 (134%)	0.02	0.093	Brown bullhead
489	298-680	( 39%)	.005	.002-.008 ( 57%)	7.56	0.339	Carp
124	1-247	( 99%)	.002	.000-.004 (175%)	1.92	0.258	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
10	0-42	(318%)	.000	.000-.000 (318%)	0.15	0.146	Flathead catfish
12	0-24	( 99%)	.000	.000-.000 (125%)	0.19	0.028	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
2	0-21	(839%)	.000	.000-.000 (1105%)	0.03	0.071	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Pumpkinseed
4	0-9	(140%)	.000	.000-.000 (155%)	0.06	0.038	Redear sunfish
38	0-121	(217%)	.000	.000-.001 (217%)	0.59	1.429	Walleye
1	0-2	(185%)	.000	.000-.000 (184%)	0.01	0.033	Warmouth
1	0-3	(245%)	.000	.000-.000 (236%)	0.01	0.031	White bass
44	0-105	(138%)	.001	.000-.002 (228%)	0.68	0.146	White crappie
14	0-50	(256%)	.000	.000-.001 (717%)	0.22	0.145	Yellow bullhead
1	0-2	(236%)	.000	.000-.000 (245%)	0.01	0.067	Yellow perch
135	16-255	( 88%)	.002	.000-.015 (646%)	2.09	0.056	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
2293	1638-2948	( 29%)	.026	.015-.036 ( 40%)	14.33	0.288	All species
118	37-199	( 69%)	.001	.000-.002 ( 93%)	0.74	0.237	Black bullhead
36	8-65	( 78%)	.001	.000-.001 (150%)	0.23	0.151	Black crappie
206	83-330	( 60%)	.002	.000-.004 ( 80%)	1.29	0.116	Bluegill
2	0-6	(129%)	.000	.000-.000 (134%)	0.02	0.206	Brown bullhead
1079	658-1500	( 39%)	.011	.005-.018 ( 57%)	6.74	0.747	Carp
274	3-545	( 99%)	.003	.000-.009 (175%)	1.71	0.569	Channel catfish
			****	NOT RECORDED ****			Crappie spp.
22	0-92	(318%)	.000	.000-.001 (318%)	0.14	0.322	Flathead catfish
27	0-53	( 99%)	.000	.000-.000 (125%)	0.17	0.062	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
5	0-46	(839%)	.000	.000-.001 (1105%)	0.03	0.158	Largemouth bass
			****	NOT RECORDED ****			Northern pike
			****	NOT RECORDED ****			Pumpkinseed
8	0-20	(140%)	.000	.000-.000 (155%)	0.05	0.083	Redear sunfish
84	0-266	(217%)	.000	.000-.001 (217%)	0.52	3.151	Walleye
2	0-5	(185%)	.000	.000-.000 (184%)	0.01	0.073	Warmouth
2	0-6	(245%)	.000	.000-.000 (245%)	0.01	0.068	White bass
97	0-231	(138%)	.002	.000-.005 (228%)	0.61	0.321	White crappie
31	0-110	(256%)	.000	.000-.002 (717%)	0.19	0.320	Yellow bullhead
1	0-5	(236%)	.000	.000-.000 (236%)	0.01	0.147	Yellow perch
299	36-561	( 88%)	.004	.000-.034 (646%)	1.87	0.124	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
52552	43783-61320	( 17%)	.586	.456-.716 ( 22%)	811.59	328.45	All species
5323	3823-6823	( 28%)	.052	.034-.070 ( 35%)	82.21	33.27	Black bullhead
2002	1257-2748	( 37%)	.026	.011-.040 ( 56%)	30.92	12.51	Black crappie
15928	10416-21440	( 35%)	.172	.091-.254 ( 47%)	245.99	99.55	Bluegill
37	0-96	(158%)	.001	.000-.003 (385%)	0.58	0.23	Brown bullhead
2805	1793-3818	( 36%)	.029	.013-.045 ( 54%)	43.32	17.53	Carp
2124	978-3270	( 54%)	.036	.000-.090 (153%)	32.80	13.27	Channel catfish
18	0-45	(147%)	.002	.000-.006 (264%)	0.28	0.11	Crappie spp.
68	0-285	(318%)	.001	.000-.003 (318%)	1.05	0.43	Flathead catfish
3632	2675-4589	( 26%)	.025	.016-.033 ( 34%)	56.09	22.70	Green sunfish
2	0-8	(236%)	.000	.000-.000 (236%)	0.04	0.01	Gizzard shad
2003	1347-2659	( 33%)	.021	.011-.031 ( 48%)	30.93	12.52	Largemouth bass
37	0-101	(172%)	.000	.000-.000 (197%)	0.57	0.23	Northern pike
125	0-314	(150%)	.001	.000-.004 (235%)	1.93	0.78	Pumpkinseed
283	74-491	( 74%)	.002	.000-.004 (107%)	4.36	1.77	Redear sunfish
376	0-2514	(568%)	.006	.000-.053 (764%)	5.81	2.35	Walleye
99	0-213	(115%)	.001	.000-.001 (115%)	1.53	0.62	Warmouth
1639	457-2820	( 72%)	.015	.004-.027 ( 76%)	25.31	10.24	White bass
1590	481-2699	( 70%)	.018	.005-.031 ( 70%)	24.56	9.94	White crappie
406	0-2671	(558%)	.019	.000-.233 (1097%)	6.27	2.54	Yellow bullhead
77	15-139	( 81%)	.001	.000-.001 ( 92%)	1.18	0.48	Yellow perch
13977	10590-17363	( 24%)	.160	.097-.222 ( 39%)	215.85	87.35	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
4016	3370-4662 ( 16%)	.051	.036-.066 ( 30%)	62.02	0.076	All species
533	378-688 ( 29%)	.006	.004-.007 ( 34%)	8.23	0.100	Black bullhead
105	58-151 ( 44%)	.001	.000-.002 ( 70%)	1.62	0.052	Black crappie
610	335-885 ( 45%)	.008	.000-.016 (117%)	9.42	0.038	Bluegill
4	0-10 (156%)	.000	.000-.000 (376%)	0.06	0.100	Brown bullhead
857	577-1136 ( 33%)	.009	.005-.012 ( 42%)	13.23	0.305	Carp
386	117-655 ( 70%)	.008	.000-.022 (166%)	5.97	0.182	Channel catfish
0	0-1 (144%)	.000	.000-.000 (255%)	0.01	0.023	Crappie spp.
10	0-42 (318%)	.000	.000-.000 (318%)	0.15	0.146	Flathead catfish
67	39-95 ( 41%)	.000	.000-.001 ( 51%)	1.04	0.019	Green sunfish
0	0-1 (236%)	.000	.000-.000 (245%)	0.01	0.161	Gizzard shad
569	261-877 ( 54%)	.007	.001-.013 ( 83%)	8.79	0.284	Largemouth bass
2	0-26 (1050%)	.000	.000-.000 (1103%)	0.03	0.061	Northern pike
2	0-5 (137%)	.000	.000-.000 (184%)	0.03	0.015	Pumpkinseed
9	1-16 ( 85%)	.000	.000-.000 (119%)	0.13	0.031	Redear sunfish
99	0-211 (113%)	.001	.000-.010 (604%)	1.53	0.264	Walleye
5	0-11 (145%)	.000	.000-.000 (124%)	0.07	0.047	Warmouth
51	17-85 ( 67%)	.000	.000-.001 ( 66%)	0.79	0.031	White bass
125	36-215 ( 71%)	.001	.000-.003 (105%)	1.94	0.079	White crappie
50	0-315 (533%)	.002	.000-.026 (1073%)	0.77	0.123	Yellow bullhead
3	0-6 (119%)	.000	.000-.000 (159%)	0.04	0.033	Yellow perch
529	366-692 ( 31%)	.006	.001-.012 ( 83%)	8.17	0.038	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
8854	7430-10277 ( 16%)	.113	.079-.146 ( 30%)	55.34	0.168	All species
1175	833-1517 ( 29%)	.012	.008-.016 ( 34%)	7.34	0.221	Black bullhead
231	129-333 ( 44%)	.003	.001-.005 ( 70%)	1.44	0.115	Black crappie
1345	738-1951 ( 45%)	.017	.000-.036 (117%)	8.40	0.084	Bluegill
8	0-21 (156%)	.000	.000-.001 (376%)	0.05	0.221	Brown bullhead
1888	1272-2505 ( 33%)	.019	.011-.027 ( 42%)	11.80	0.673	Carp
852	258-1445 ( 70%)	.018	.000-.048 (166%)	5.32	0.401	Channel catfish
1	0-2 (144%)	.000	.000-.000 (255%)	0.01	0.050	Crappie spp.
22	0-92 (318%)	.000	.000-.001 (318%)	0.14	0.322	Flathead catfish
148	87-210 ( 41%)	.001	.001-.002 ( 51%)	0.93	0.041	Green sunfish
1	0-3 (245%)	.000	.000-.000 (236%)	0.01	0.354	Gizzard shad
1255	576-1934 ( 54%)	.015	.003-.028 ( 83%)	7.84	0.626	Largemouth bass
5	0-57 (1050%)	.000	.000-.000 (1103%)	0.03	0.134	Northern pike
4	0-10 (137%)	.000	.000-.000 (184%)	0.03	0.034	Pumpkinseed
19	3-35 ( 85%)	.000	.000-.000 (119%)	0.12	0.067	Redear sunfish
219	0-466 (113%)	.003	.000-.022 (604%)	1.37	0.582	Walleye
10	0-25 (145%)	.000	.000-.000 (124%)	0.06	0.103	Warmouth
112	37-187 ( 67%)	.001	.000-.002 ( 66%)	0.70	0.069	White bass
276	79-473 ( 71%)	.003	.000-.007 (105%)	1.73	0.174	White crappie
110	0-696 (533%)	.005	.000-.058 (1073%)	0.69	0.271	Yellow bullhead
6	0-12 (119%)	.000	.000-.000 (159%)	0.03	0.072	Yellow perch
1167	807-1526 ( 31%)	.014	.002-.026 ( 83%)	7.29	0.083	Yellow bass

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
<b>HOURS PER COMPLETED TRIP*</b>						
BOAT	3.3	2.9-3.7	( 12%)	0.5	11.8	86
SHORE	2.3	2.2-2.5	( 6%)	0.1	6.9	345
BOAT & SHORE	2.5	2.4-2.7	( 6%)	0.1	11.8	431
MILES TRAVELED	12.8	12.4-13.3	( 3%)	1	60	1411
SUCCESS RATING (1-10)	2.9	2.7-3.0	( 5%)	1	10	1417

\*145 samples were from split interviews of completed trips.  
 26.7% of all 1616 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 27 out of 1616 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	63	16	5	1					
SHORE INTERVIEWS	682	528	187	75	26	11	4	3	1	1

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

743 ( 46.0%)	ANY	All species
4 ( 0.2%)	BLB	Black bullhead
15 ( 0.9%)	BLC	Black crappie
92 ( 5.7%)	BLG	Bluegill
123 ( 7.6%)	CAP	Carp
167 ( 10.3%)	CCF	Channel catfish
73 ( 4.5%)	CRP	Crappie spp.
191 ( 11.8%)	LMB	Largemouth bass
5 ( 0.3%)	NOP	Northern pike
1 ( 0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
144 ( 8.9%)	WAE	Walleye
2 ( 0.1%)	WHB	White bass
42 ( 2.6%)	WHC	White crappie
14 ( 0.9%)	YLB	Yellow bass



Table 11. Number of anglers with a given harvest &amp; 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	835	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	724	67	34	6	2	3	1	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	835	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	812	19	4	-	-	-	-	-	-	-	1	-	-	-	-	1
Bluegill																
HARVEST	820	13	-	-	-	-	3	-	1	-	-	-	-	-	-	-
RELEASE	655	90	45	24	6	5	4	-	4	-	-	-	1	1	-	2
Brown bullhead																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	833	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	818	7	2	2	6	1	1	-	-	-	-	-	-	-	-	-
RELEASE	819	15	2	-	1	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	827	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	799	29	6	-	2	-	-	-	-	-	-	-	-	-	-	1
Crappie spp.																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	834	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	836	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	765	31	29	10	2	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	774	49	10	-	1	3	-	-	-	-	-	-	-	-	-	-
Redear sunfish																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	827	7	-	1	2	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	836	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	827	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	835	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 11. Number of anglers with a given harvest &amp; 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	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	828	3	2	4	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	836	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	811	18	4	1	2	1	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	835	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	831	4	1	-	-	-	-	-	1	-	-	-	-	-	-	-
Yellow perch																
HARVEST	837	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	836	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	829	3	-	-	4	-	1	-	-	-	-	-	-	-	-	-
RELEASE	703	65	28	13	9	4	4	-	2	-	4	3	-	-	-	2

ILLINOIS NATURAL HISTORY SURVEY  
 CENTER FOR AQUATIC ECOLOGY AND CONSERVATION  
 2004 CREEL SURVEY RESULTS

2004 WALTON PARK  
 30 ACRES  
 REGION 4, DISTRICT 15

STRATIFICATION SUMMARY:

Day creel only.  
 Results cover 03/15/2004 through 10/31/2004  
 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: 286/693 = 41.3%

NUMBER OF INTERVIEWS: 628

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	427	244-611 ( 43%)	14	8-21 ( 43%)	15%
	HOLIDAY	574	427-720 ( 26%)	19	14-24 ( 26%)	40%
	TOTAL	1001	766-1236 ( 23%)	34	26-42 ( 23%)	29%
SHORE	WEEKDAY	3056	2477-3635 ( 19%)	103	83-122 ( 19%)	14%
	HOLIDAY	2529	2078-2979 ( 18%)	85	70-100 ( 18%)	26%
	TOTAL	5585	4851-6318 ( 13%)	188	163-213 ( 13%)	19%
BOAT & SHORE	WEEKDAY	3483	2876-4091 ( 17%)	117	97-138 ( 17%)	14%
	HOLIDAY	3102	2629-3576 ( 15%)	104	89-120 ( 15%)	29%
	TOTAL	6585	5815-7356 ( 12%)	222	196-248 ( 12%)	21%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1149	772-1526	( 33%)	.102	.063-.140 ( 38%)	95.59	38.68	All species
6	0-18	(220%)	.000	.000-.000 (220%)	0.48	0.19	Bluegill x Green su
17	0-47	(176%)	.001	.000-.002 (213%)	1.42	0.58	Black bullhead
22	0-62	(185%)	.002	.000-.005 (171%)	1.81	0.73	Bluegill
9	0-27	(187%)	.003	.000-.009 (229%)	0.77	0.31	Carp
358	230-487	( 36%)	.023	.015-.032 ( 36%)	29.82	12.07	Channel catfish
5	0-13	(153%)	.001	.000-.002 (246%)	0.42	0.17	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
25	2-48	( 91%)	.005	.000-.010 ( 93%)	2.07	0.84	Largemouth bass
			****	NOT RECORDED ****			Redear sunfish
			****	NOT RECORDED ****			Warmouth
696	375-1017	( 46%)	.067	.030-.104 ( 56%)	57.92	23.44	White crappie
10	0-29	(173%)	.000	.000-.001 (199%)	0.87	0.35	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
381	262-500	( 31%)	.034	.023-.046 ( 34%)	31.68	0.331	All species
0	0-1	(220%)	.000	.000-.000 (220%)	0.02	0.036	Bluegill x Green su
4	0-12	(208%)	.000	.000-.001 (228%)	0.32	0.226	Black bullhead
1	0-3	(209%)	.000	.000-.000 (162%)	0.08	0.044	Bluegill
6	0-22	(253%)	.001	.000-.004 (212%)	0.52	0.673	Carp
166	105-227	( 37%)	.012	.007-.016 ( 40%)	13.80	0.463	Channel catfish
0	0-1	(182%)	.000	.000-.000 (264%)	0.04	0.099	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
19	0-39	(106%)	.004	.000-.007 ( 94%)	1.57	0.757	Largemouth bass
			****	NOT RECORDED ****			Redear sunfish
			****	NOT RECORDED ****			Warmouth
181	92-270	( 49%)	.017	.007-.027 ( 58%)	15.06	0.260	White crappie
3	0-8	(150%)	.000	.000-.000 (171%)	0.27	0.307	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
840	577-1102	( 31%)	.076	.050-.102 ( 34%)	28.27	0.731	All species
0	0-1	(223%)	.000	.000-.000 (220%)	0.02	0.079	Bluegill x Green su
9	0-26	(208%)	.000	.000-.001 (228%)	0.29	0.498	Black bullhead
2	0-6	(209%)	.000	.000-.000 (162%)	0.07	0.096	Bluegill
14	0-48	(253%)	.003	.000-.009 (212%)	0.46	1.484	Carp
366	231-501	( 37%)	.026	.015-.036 ( 40%)	12.31	1.020	Channel catfish
1	0-3	(182%)	.000	.000-.001 (264%)	0.04	0.217	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
42	0-86	(106%)	.008	.000-.015 ( 94%)	1.40	1.670	Largemouth bass
			****	NOT RECORDED ****			Redear sunfish
			****	NOT RECORDED ****			Warmouth
399	203-595	( 49%)	.038	.016-.060 ( 58%)	13.44	0.573	White crappie
7	0-18	(150%)	.000	.000-.000 (171%)	0.24	0.678	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
11194	8846-13541	( 21%)	1.032	.755-1.309( 27%)	931.30	376.89	All species
287	14-559	( 95%)	.011	.002-.020 ( 80%)	23.84	9.65	Bluegill x Green su
169	40-298	( 76%)	.004	.002-.007 ( 61%)	14.06	5.69	Black bullhead
3641	2481-4801	( 32%)	.186	.120-.251 ( 35%)	302.94	122.60	Bluegill
27	0-56	(105%)	.004	.000-.011 (148%)	2.28	0.92	Carp
2326	1751-2900	( 25%)	.175	.117-.234 ( 34%)	193.50	78.31	Channel catfish
29	6-53	( 80%)	.002	.000-.003 ( 91%)	2.43	0.98	Green sunfish
1	0-4	(318%)	.000	.000-.001 (318%)	0.08	0.03	Gizzard shad
1701	1142-2260	( 33%)	.329	.134-.524 ( 59%)	141.54	57.28	Largemouth bass
1	0-5	(318%)	.000	.000-.000 (430%)	0.09	0.04	Redear sunfish
4	0-15	(236%)	.000	.000-.001 (245%)	0.37	0.15	Warmouth
2772	1406-4138	( 49%)	.304	.149-.459 ( 51%)	230.63	93.33	White crappie
235	53-417	( 77%)	.016	.006-.027 ( 65%)	19.54	7.91	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
1469	1160-1777	( 21%)	.167	.094-.240 ( 44%)	122.19	0.131	All species
17	0-41	(145%)	.001	.000-.001 (101%)	1.39	0.058	Bluegill x Green su
32	4-59	( 86%)	.001	.000-.001 ( 78%)	2.62	0.186	Black bullhead
84	56-112	( 34%)	.004	.003-.005 ( 36%)	6.99	0.023	Bluegill
20	0-43	(113%)	.003	.000-.005 (116%)	1.67	0.733	Carp
375	281-470	( 25%)	.026	.018-.034 ( 30%)	31.21	0.161	Channel catfish
1	0-2	(100%)	.000	.000-.000 (198%)	0.09	0.037	Green sunfish
0	0-0	(430%)	.000	.000-.000 (430%)	0.00	0.002	Gizzard shad
571	371-771	( 35%)	.100	.028-.172 ( 72%)	47.48	0.335	Largemouth bass
0	0-0	(430%)	.000	.000-.000 (318%)	0.00	0.022	Redear sunfish
0	0-0	(245%)	.000	.000-.000 (236%)	0.01	0.029	Warmouth
339	192-487	( 43%)	.032	.018-.045 ( 43%)	28.24	0.122	White crappie
30	9-51	( 70%)	.002	.001-.003 ( 71%)	2.48	0.127	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
3238	2557-3918	( 21%)	.368	.207-.529 ( 44%)	109.02	0.289	All species
37	0-90	(145%)	.001	.000-.002 (101%)	1.24	0.129	Bluegill x Green su
69	9-129	( 86%)	.002	.000-.003 ( 78%)	2.34	0.411	Black bullhead
185	122-248	( 34%)	.009	.006-.012 ( 36%)	6.23	0.051	Bluegill
44	0-94	(113%)	.006	.000-.012 (116%)	1.49	1.616	Carp
827	619-1035	( 25%)	.057	.040-.074 ( 30%)	27.84	0.356	Channel catfish
2	0-5	(100%)	.000	.000-.001 (198%)	0.08	0.081	Green sunfish
0	0-0	(318%)	.000	.000-.000 (430%)	0.00	0.004	Gizzard shad
1258	818-1699	( 35%)	.220	.061-.378 ( 72%)	42.37	0.740	Largemouth bass
0	0-0	(430%)	.000	.000-.000 (430%)	0.00	0.048	Redear sunfish
0	0-1	(245%)	.000	.000-.000 (236%)	0.01	0.065	Warmouth
748	423-1074	( 43%)	.070	.040-.100 ( 43%)	25.19	0.270	White crappie
66	20-112	( 70%)	.004	.001-.008 ( 71%)	2.21	0.280	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	2.0-2.8 ( 18%)	0.4	6.0	45
SHORE	1.0	0.8-1.2 ( 16%)	0.1	3.6	92
BOAT & SHORE	1.5	1.3-1.7 ( 14%)	0.1	6.0	137
MILES TRAVELED	14.4	7.7-21.1 ( 47%)	1	1500	537
SUCCESS RATING (1-10)	4.2	3.9-4.5 ( 6%)	1	10	537

\*33 samples were from split interviews of completed trips.  
23.0% of all 595 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 5 out of 595 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	43	38	2	2						
SHORE INTERVIEWS	148	200	85	41	26	7		1	2	

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

262 ( 44.0%)	ANY	All species
19 ( 3.2%)	BLG	Bluegill
147 ( 24.7%)	CCF	Channel catfish
2 ( 0.3%)	CRP	Crappie spp.
116 ( 19.5%)	LMB	Largemouth bass
49 ( 8.2%)	WHC	White crappie

Table 11. Number of anglers with a given harvest &amp; 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	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black bullhead																
HARVEST	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	262	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	213	23	1	10	7	4	6	-	2	-	2	-	-	-	-	-
Carp																
HARVEST	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	265	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	250	9	7	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	209	32	10	7	4	2	-	1	-	-	2	1	-	-	-	-
Green sunfish																
HARVEST	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	264	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	265	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	203	45	8	3	-	2	2	-	1	1	-	1	-	-	-	2
Warmouth																
HARVEST	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	266	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	255	4	-	-	2	2	2	-	-	-	-	-	-	-	-	3
RELEASE	241	12	1	4	2	2	1	-	2	-	2	-	-	-	-	1
Yellow bullhead																
HARVEST	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	257	9	1	-	1	-	-	-	-	-	-	-	-	-	-	-

Table B1. Angler Effort and Angler Effort per Acre for all 2004 Lakes. Estimates higher than state average are in **bold**.

<u>Lake</u>	<u>Angler Hours</u>	<u>Angler Hours per Acre</u>
Le-Aqua-Na	21434	<b>494</b>
Tampier	<b>59616</b>	<b>373</b>
Walton Park	6585	<b>222</b>
Busse South	27625	<b>189</b>
Lincoln Trail	21187	155
Paris West	9783	151
Kakusha	6965	131
Murphysboro	14633	105
Paris East	14650	90
Mermet	21459	49
Spring Lake North	23316	40
Jacksonville	19203	40
Round	8384	37
Rend	<b>118142</b>	7
<b>State Average ('97-'04)</b>	<b>38587</b>	<b>184</b>

Table B2. Estimated harvest for all species for all 2004 Lakes. Estimates higher than state average are in **bold**.

<u>Lake</u>	<u>Harvest</u>	<u>Harvest/Hour</u>	<u>Harvest (lbs)</u>	<u>Harvest/Hour (lbs)</u>
Kakusha	<b>23467</b>	<b>1.472</b>	8463	<b>0.540</b>
Lincoln Trail	15020	<b>0.539</b>	7517	<b>0.277</b>
Busse South	15260	<b>0.480</b>	4869	0.172
Mermet	<b>91234</b>	<b>0.452</b>	<b>88727</b>	<b>0.460</b>
Paris West	15267	0.424	<b>12202</b>	<b>0.346</b>
Jacksonville	6252	0.277	2165	0.107
Walton Park	3354	0.254	1942	0.173
Murphysboro	5121	0.205	2004	0.092
Le-Aqua-Na	7875	0.193	2747	0.066
Paris East	3368	0.170	1417	0.077
Tampier	2441	0.129	2024	0.117
Rend	1149	0.102	840	0.076
Spring Lake North	1318	0.091	367	0.039
Round	7972	0.083	2293	0.026
<b>State Average ('97-'04)</b>	<b>16469</b>	<b>0.440</b>	<b>8489</b>	<b>0.270</b>



Table B3. Statewide ranking of most frequently caught species. Rank score is based on the number times a species ranked in the top five most caught species for a particular lake in 2004. A total of 14 lakes were surveyed in 2004.

<u>Species</u>	<u>Rank Score</u>
Bluegill	13
Largemouth Bass	13
Channel Catfish	10
Black Crappie	8
White Crappie	7
Yellow Bullhead	2
Redear Sunfish	2
Yellow Bass	1
White Bass	1
Yellow Perch	1
Walleye	1
Warmouth	1
Common Carp	1
Pumpkinseed	1
Muskellunge	0
Bigmouth Buffalo	0
Smallmouth Bass	0

Table B4. Catch Rates (#fish per angler-hour) for the five most frequently caught species for 2004 Lakes. Estimates higher than state average are in **bold**.

<u>Lake</u>	<u>Bluegill</u>	<u>Largemouth Bass</u>	<u>Channel Catfish</u>	<u>Black Crappie</u>	<u>White Crappie</u>
Spring Lake North	<b>0.659</b>	0.176	0.009	0.035	XXX
Lincoln Trail	<b>0.632</b>	0.199	0.045	<b>0.175</b>	0.052
Mermet	0.532	0.030	0.110	0.124	0.114
Murphysboro	0.532	0.131	<b>0.139</b>	0.085	<b>1.290</b>
Kakusha	0.529	0.140	<b>0.149</b>	<b>0.204</b>	***
Paris East	0.473	<b>0.329</b>	0.123	***	0.144
Le-Aqua-Na	0.467	0.143	0.060	<b>0.426</b>	XXX
Paris West	0.419	0.146	0.079	***	0.086
Round	0.419	0.097	0.002	0.028	XXX
Busse South	0.379	0.089	0.054	<b>0.303</b>	***
Walton Park	0.186	<b>0.329</b>	<b>0.175</b>	XXX	<b>0.304</b>
Tampier	0.172	0.021	XXX	0.026	0.018
Jacksonville	0.065	<b>0.496</b>	0.109	XXX	0.174
Rend	0.061	0.041	<b>0.210</b>	0.001	<b>0.630</b>
<b>State Average</b> <b>('97-'04)</b>	<b>0.554</b>	<b>0.254</b>	<b>0.129</b>	<b>0.132</b>	<b>0.291</b>

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

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

APPENDIX C. USAGE STATISTICS FOR [www.ifishillinois.org](http://www.ifishillinois.org)

Table C-1. Monthly summary of usages statistic for the period April 1, 2004 - March 31, 2005.

Summary by Month										
Month	Daily Average				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
March 2005	9478	6608	2685	568	9047	9839766	17638	83259	204878	293821
February 2005	6089	4292	1639	387	6067	6461246	10852	45919	120201	170492
January 2005	3440	2490	1006	239	4031	4369522	7436	31206	77205	106665
December 2004	1939	1350	687	173	2526	2556470	5389	21305	41880	60115
November 2004	2334	1642	775	175	2571	2962527	5262	23276	49286	70039
October 2004	3487	2489	1085	254	3752	4283776	7880	33662	77177	108117
September 2004	4621	3219	1462	291	4459	5634105	8741	43872	96589	138644
August 2004	5579	3888	1787	325	4654	7772074	10085	55415	120557	172974
July 2004	6056	4387	1788	349	4700	6880746	10841	55432	136015	187736
June 2004	6397	4690	1899	341	4524	6090631	10246	56972	140712	191925
May 2004	5605	4247	1670	299	3905	5420747	9298	51771	131676	173777
April 2004	6898	5018	1994	314	4003	6327587	9432	59822	150557	206961
Totals						68599197	113100	561911	1346733	1881266

Figure C-1. Monthly summary of usages statistic for the period April 1, 2004 - March 31, 2005.

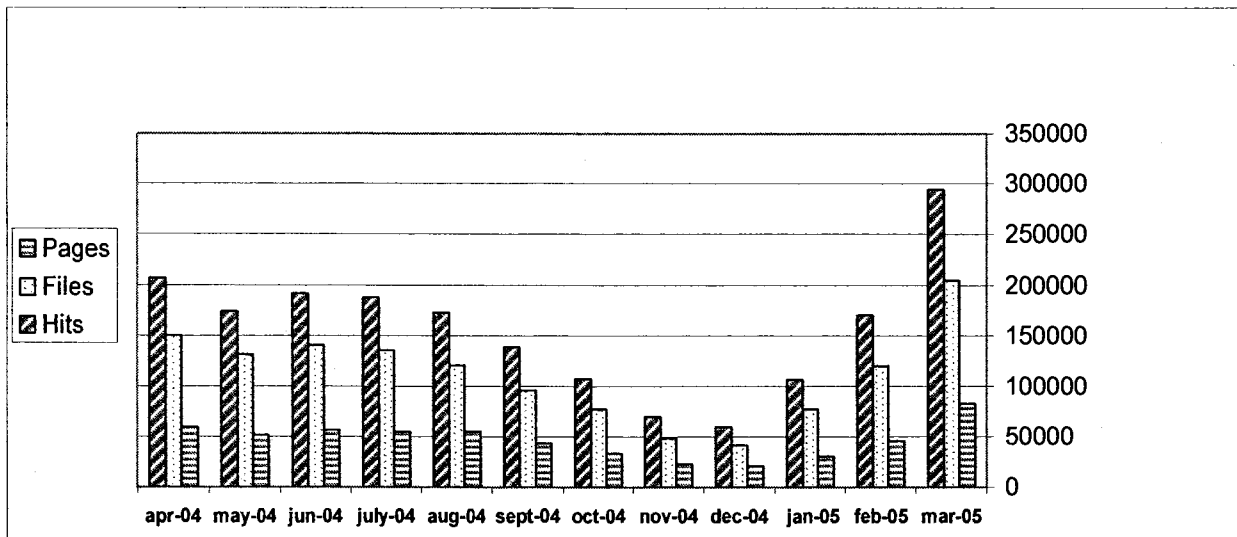



Figure C-2. Welcome homepage of the website [www.ifishillinois.org](http://www.ifishillinois.org).



# I Fish Illinois

Paul D. Ungerer, Director      Rod M. Dirksen, Governor

Illinois' anglers need no longer drive long distances to enjoy quality fishing. Some of the best fishing opportunities in the nation now can be found in our state's million and a half acres of water that varies from the deep, blue waters of Lake Michigan, to our great rivers, and crystal-clear smaller lakes and ponds.

Good luck fishing in Illinois!

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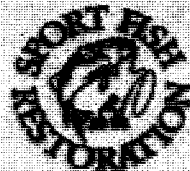


Figure C-3. Example of lake profile (Carlyle Lake) available for 105 Illinois lakes and reservoirs on the website [www.ifishillinois.org](http://www.ifishillinois.org).

# I Fish Illinois

Rod Blagojevich, Governor  
Irene Brunsford, Director

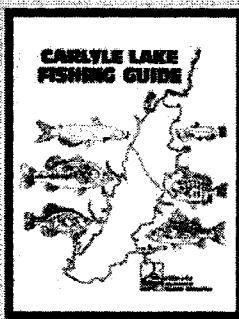
<http://www.ifishillinois.org>

PLACES TO FISH
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WHAT'S NEW

## CARLYLE LAKE

### Site Information

Water Name:	Carlyle Lake
Specific Area or Reach:	
Water Type:	Inland Lake
Water Size:	24580 acres
Location:	NE of Carlyle
County:	Clinton, Bond, & Fayette
Fishing Regulations:	refer to regs booklet



**CARLYLE LAKE FISHING GUIDE**

[General Fishing & Recreational Information](#)      [Carlyle Fishing Guide](#)

### Public Recreational Facilities

Boat Fishing	YES
Boat Rental	YES
Ramps	YES
Water Skiing	YES
Fishers	ARTIFICIAL
Swimming	YES
Camp/Picnic	YES

[Sportfishing Prospects](#)


[Sportfishing Status Report Summary](#)

[Creel Survey Reports](#)

- 1986 creel survey
- 1992 creel survey
- 1997 creel survey
- 2000 (McN Lake & Tailwater)

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