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**ILLINOIS
NATURAL HISTORY
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ANNUAL PROGRESS REPORT

1 March 2000 - 28 February 2001

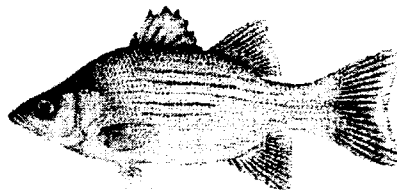
**DATABASE MANAGEMENT AND ANALYSIS OF FISHERIES
IN ILLINOIS**

Lynnette Miller-Ishmael, Betty Carroll, Amy B. Osterman, Julie
Claussen, Darren M. Benjamin, Robert F. Illyes, David P. Philipp

Submitted to
Division of Fisheries
Illinois Department of Natural Resources
Federal Aid Project F-69-R
Segment 14

May 2001

Aquatic Ecology Technical Report 01/02



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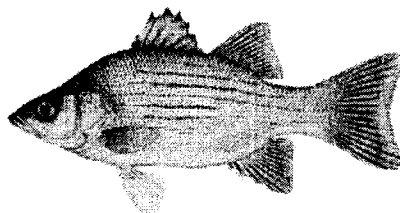
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F-69-R-14

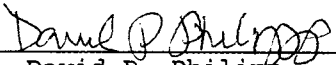
Annual Report, Segment 14

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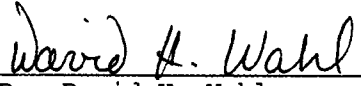
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May 2001



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This technical report is the annual report for Segment 14 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 14: (1) conduct annual creel surveys on selected lakes; (2) provide programming support for the Fisheries Analysis System (FAS), administered by the Illinois Department of Natural Resources (IDNR) Watershed Management Section; (3) incorporate FAS databases to aid in the analysis of ongoing research projects and pertinent management questions.

Creel surveys were conducted on 15 lakes in Illinois during Segment 14, bringing the total to 258 total creel surveys on Illinois lakes since 1987. Fourteen of these lakes were funded by Project F-69-R with additional financial support from IDNR Division of Fisheries. Newton Lake, in Jasper County, was funded by Ameren Services through 7 February 2000. Six of these lakes are experimental lakes of Project F-128-R *Quality Management of Bluegill: Factors Affecting Population Size Structure*.

Software support for FAS continued in Segment 14, and most of the programming efforts were directed at completing the FAS-CREEL software. Beginning with Segment 14, all creel data entry

and analysis was performed using the upgraded FAS-CREEL software operating on a PC platform. All historical creel survey data from Segments 1-12 were transferred to ASCII text files and are currently being imported into Paradox databases.

Efforts to incorporate creel survey data into existing and ongoing research projects continued in Segment 14. Creel survey estimates were used to evaluate bluegill study populations for Project F-135-R. Other creel survey data, such as angler effort and harvest data, the percentage of anglers targeting bluegill, and the average size of caught and harvested bluegill were additionally used to assess the characteristics of the study lakes in Project F-128-R.

JOB 101.1 ANGLER SURVEYS

OBJECTIVE

Conduct annual creel surveys on selected lakes within Illinois (including one of the four large reservoirs each year). Manage (i.e., coordinate and supervise personnel, analyze and report data) the creel surveys conducted on these lakes.

PROCEDURES

Creel surveys were conducted on the following lakes during Segment 15: Apple Canyon, Beaver Dam, Carlyle, Carlyle Tailwater, Clinton Lake, Clinton Tailwater, Crab Orchard, LaSalle, Murphysboro, Newton, Red Hills, Sangchris, Silver, Sterling, Woods (Appendix B).

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

FINDINGS

Results of the creel surveys are presented in Appendix B. Total fishing pressure was highest in Clinton Lake at 193,374 angler-hours, Sangchris Lake at 132,416 angler-hours, and Carlyle Lake at 101,291 angler-hours. The lowest fishing efforts among the creeled lakes were estimated in Woods Lake at 4,268 angler-hours and Red Hills at 9,887 angler-hours.

Although Carlyle Lake had one of the highest total fishing pressures, it had the lowest fishing pressure per acre at 5 angler-hours/acre. Crab Orchard had the next lowest fishing pressure per acre at 13 angler-hours/acre. Carlyle Lake Tailwater had the highest fishing pressure per acre at 3,813 angler-hours/acre followed by Clinton Lake Tailwater at 2564 angler-hours/acre.

The lowest harvest levels among the lakes were seen in Woods Lake, although Woods Lake did have the highest ratio of harvested fish to total harvested pounds per acre (1,006 fish :1,548 pounds) for an average of 1.54 pounds. Other lakes that were among the lowest for harvest levels were Red Hills Lake (2,153 fish; 1,341 pounds) and Clinton Tailwater (2,391 fish; 1,947 pounds). The highest harvest levels were out of Clinton

Lake (123,600 fish; 78,109 pounds), Carlyle Lake (101,696 fish; 68,697 pounds) and LaSalle Lake (73,120 fish; 26,137 pounds).

Estimated catch rates (# caught per angler-hour) for largemouth bass, bluegill, and channel catfish were highly variable across lakes. Catch rates for largemouth bass were lowest in Carlyle Tailwater (0.002), Clinton Tailwater (0.005), and Lasalle Lake (0.016). The highest catch rates were seen in Apple Canyon Lake (0.716) and Silver Lake (0.427). Bluegill catch rates were the highest in Apple Canyon, Murpysboro, and Silver Lake (0.806, .642, and 0.619 respectively). Both Apple Canyon and Silver Lake appear to be strong fisheries for both largemouth bass and bluegill, as both had high catch rates for largemouth bass and bluegill. Lowest catch rates for bluegill were found in Carlyle Lake (0.035), Clinton Tailwater (0.058) and Newton Lake (0.107). Catch rates for channel catfish were varied among lakes ranging from the lowest in Silver Lake (0.003) and Sterling Lake (0.016), and highest in LaSalle Lake (0.500) and Newton Lake (0.316).

RECOMMENDATIONS

The creel information collected is an important tool for assessing the interaction between the angler and the resource, and the continuation of lake creel surveys is essential to

evaluate management concerns and needs. Project staff should continue to meet with IDNR Division of Fisheries staff on a regular basis to discuss the needs of creel survey data for lake management objectives.

Further efforts should be made to analyze the historical database in order to answer important research and management questions. Efforts should be made to report lake-specific long-term trends of fishing effort, catch, and catch rates. Multiple creel surveys have been conducted on many lakes in Illinois. Annual results should be compared to historical estimates in order to identify trends and interpret fishery dynamics.

Lake creel data is highly critical for evaluating the success of experimental bluegill harvest regulations under Project F-128-R, and for evaluation of largemouth bass stocking under Project F-135-R. Efforts are underway to use the creel database on specific lakes to assess how regulations have effected the fishery for bluegill and largemouth bass.

JOB 101.2 FISHERIES DATABASE ENHANCEMENT

OBJECTIVE

Support the creel database software developed for Paradox. Support the Fisheries Analysis System (FAS), including the streams database and their associated applications. Solve the impending Y2000 problems as they arise, update documentation for the creel programs, and establish a creel web server.

PROCEDURES

The two principal efforts during this segment were the conversion of FAS to Win32 (32-bit Microsoft Windows) and support for Creel. In addition to this and the ongoing support of all aspects of FAS, preliminary work was done on the new Index of Biotic Integrity (IBI) program, but completion of IBI awaits the final draft of the new IBI. The Creel web site was improved and extended as data became available.

Lakes and Streams tabular output (FISHTAB), creel data entry and analysis, and Forth Graphics are now compilable as Windows applications and run in their own window rather than in a DOS window. Graphics sent to a file are now in the form of a bitmap (file type bmp) rather than PostScript, permitting easy insertion into word processor documents.

The Creel data entry and analysis program has been enhanced for improved ease of use, error checking of new data as it is entered, and readability of tabular output. A new version of the creel analysis code with special provisions for multi-section lakes (particularly those that are sampled longer in some sections than others) is still under test and has not been released for general use.

An inch field has been added to the harvested and released fish tables. If not blank, it indicates that the data was collected in inches. Conversion to centimeters is now an automatic part of data entry rather than the job of the creel clerks.

RECOMMENDATIONS

The conversion of the remainder of FAS to Win32 should be completed in the next segment. The new IBI should be included in FAS when the final draft of IBI becomes available.

The inclusion of the inch field makes possible improved graphics and fish weight estimates. The Creel analysis and graphics code should be modified to take advantage of this information.

Job 101.3. Coordination with Ongoing Fisheries Research

PROJECTS

OBJECTIVE

Use the existing creel and FAS databases to provide supportive information to help define fish populations in study lakes associated with ongoing bluegill and largemouth bass projects. Analyze the impact of two strategies for changing population size structure of fish populations through experimental harvest regulations and predator/habitat manipulations. Assess the feasibility and logistical requirements of conducting a creel survey on one or more of the state's major river fisheries (e.g., Rock, Kankakee, or Kaskaskia Rivers).

PROCEDURES

PROJECT F-128-R

Creel survey data collected from Project F-69-R played an important role in Project F-128-R. Creel survey estimates were used to evaluate quality and stunted bluegill populations in Illinois lakes based on size indices of adult fish (Claussen et al 1998, Aday et al. 1999 and 2000). Other creel survey data, such as angler effort and harvest data, the percentage of anglers targeting bluegill, and the average size of caught and

harvested bluegill were additionally used to assess the characteristics of the study lakes in Project F-128-R. Because of the nature of creel data, a unique size index, Proportion of Quality Creeled Fish (PCF.180) was developed for use in Project F-128-R. This index is calculated as the total number of caught fish greater than or equal to 180mm divided by the total number of caught fish (Aday et al. 1999 and 2000).

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. Creel surveys on two study lakes in Project F-135-R are being conducted during Segment 14 of Project F-69-R.

FINDINGS

PROJECT F-128-R

Preliminary analysis of creel survey data collected during Segment 13 showed that quality bluegill lakes produced a significantly better fishery than stunted lakes in terms of total number caught, total biomass caught, average size caught, and size distribution of caught fish (using PCF.180). No significant differences were found for regional or lake size comparisons for any of the above variables (Aday et al. 1999). Thirteen study lakes in Project F-128-R will be creeled during Segment 14, including first-time creel surveys on eight lakes.

PROJECT F-135-R

Analyses regarding effects of stocking largemouth bass are currently 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 maintain standardized methods and allow historical and future fishery estimates to be directly

comparable. Further, tests of current methods should follow the current scientific literature, especially as new insights have been made into catch rate estimation (Pollock et al. 1997). If improvements to the current creel estimation methods are deemed necessary, the historical creel survey data must be estimated using the new methods to allow future and historical fishery estimates to be comparable (Lockwood et al. 1999).

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APPENDIX A. INTERPRETIVE GUIDE TO UNDERSTANDING CREEL SURVEY RESULTS

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

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

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

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

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

STRATIFICATION SUMMARY

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

SAMPLING RATIO

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

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

NUMBER OF INTERVIEWS

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

PART ONE: EFFORT, HARVEST, AND CATCH ESTIMATES

TABLE 1. TOTAL FISHING EFFORT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

TABLES 5-7. TOTAL FISHING CATCH AND CATCH RATES

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

A NOTE ON BIOMASS ESTIMATES

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

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

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+
<hr/>																
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.

PART THREE: LENGTH-FREQUENCY HISTOGRAMS

The final pages of the creel report show length-frequency histograms for harvested and released fish, for the major game species only. Fish reported in each chart include all interviews, not just completed trip interviews. The frequency of fish reported for each centimeter total length group are the actual totals of fish reported in interviews rather than estimated totals as are reported in TABLES 2-7. Two charts are reported per species; the first chart displays harvested fish, while the second chart displays released fish.

APPENDIX B. 2000 CREEL SURVEY RESULTS

The following pages contain the final results from the full 2000 day creel surveys conducted on Illinois lakes, including 14 lakes funded by Project F-69-R-13, and 1 lake funded by Ameren Services Company. Results are presented alphabetically by lake name for the following lakes:

<i>LAKE</i>	<i>ACRES</i>	<i>COUNTY</i>	<i>REGION</i>	<i>DISTRICT</i>	<i>BIOLOGIST</i>
Apple Canyon	450	Jo Davies	1	1	Alec Pulley
Beaver Dam	55	Macoupin	4	15	Jeff Pontnack
Carlyle	22202	Clinton, Fayette, Bond	4	16	Barry Newman
Carlyle Tail	24	Clinton	4	16	Barry Newman
Clinton Lake	4895	DeWitt	3	10	Mike Garthaus
Clinton Tail	6	DeWitt	3	10	Mike Garthaus
Crab Orchard	6036	Williamson	5	22	Chris Bickers
LaSalle	1864	LaSalle	1	2	Ken Clodfelter
Murphysboro	140	Jackson	5	21	Shawn Hirst
Newton	1750	Jasper	5	19	Mike Hooe
Red Hills	40	Lawrence	5	19	Mike Hooe
Sangchris	2165	Christian	4	15	Charley Marbut
Silver	65	DuPage	2	6	Harvey Brown
Sterling	68	Lake	2	7	Frank Jakubicek
Woods	27	Moultrie	3	11	Mike Mounce

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 APPLE CANYON LAKE
 450 ACRES
 REGION 1, DISTRICT 1

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 327/693 = 47.2%

NUMBER OF INTERVIEWS: 2025

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	27670	24010-31331 (13%)	61	53-70 (13%)	11%
	HOLIDAY	22812	19633-25991 (14%)	51	44-58 (14%)	22%
	TOTAL	50482	45634-55330 (10%)	112	101-123 (10%)	16%
SHORE	WEEKDAY	3432	2589-4275 (25%)	8	6-9 (25%)	10%
	HOLIDAY	3549	2792-4306 (21%)	8	6-10 (21%)	18%
	TOTAL	6981	5848-8114 (16%)	16	13-18 (16%)	14%
BOAT & SHORE	WEEKDAY	31102	27346-34859 (12%)	69	61-77 (12%)	11%
	HOLIDAY	26360	23093-29628 (12%)	59	51-66 (12%)	21%
	TOTAL	57463	52484-62442 (9%)	128	117-139 (9%)	16%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
37374	30792-43956	(18%)	.420	.352-.489 (16%)	205.23	83.05	All species
3561	2594-4528	(27%)	.048	.034-.062 (30%)	19.55	7.91	Black crappie
32294	26007-38582	(19%)	.350	.286-.414 (18%)	177.33	71.77	Bluegill
5	0-15	(208%)	.000	.000-.000 (209%)	0.03	0.01	Carp
1179	883-1475	(25%)	.020	.003-.036 (82%)	6.47	2.62	Largemouth bass
			****	NOT RECORDED	****		Muskellunge
14	0-32	(135%)	.000	.000-.000 (142%)	0.08	0.03	Northern pike
32	0-68	(112%)	.000	.000-.001 (124%)	0.18	0.07	Smallmouth bass
			****	NOT RECORDED	****		Tiger muskie
289	154-425	(47%)	.003	.001-.004 (61%)	1.59	0.64	Walleye
			****	NOT RECORDED	****		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
7775	6559-8990	(16%)	.098	.073-.122 (25%)	42.69	0.208	All species
934	679-1188	(27%)	.013	.009-.017 (31%)	5.13	0.262	Black crappie
5246	4198-6294	(20%)	.060	.048-.073 (21%)	28.81	0.162	Bluegill
1	0-3	(208%)	.000	.000-.000 (208%)	0.01	0.203	Carp
1153	861-1444	(25%)	.021	.000-.047 (128%)	6.33	0.978	Largemouth bass
			****	NOT RECORDED	****		Muskellunge
54	0-122	(125%)	.000	.000-.001 (136%)	0.30	3.940	Northern pike
34	0-69	(101%)	.000	.000-.000 (111%)	0.19	1.069	Smallmouth bass
			****	NOT RECORDED	****		Tiger muskie
353	200-507	(43%)	.003	.001-.005 (57%)	1.94	1.220	Walleye
			****	NOT RECORDED	****		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
17141	14461-19820	(16%)	.215	.161-.269 (25%)	38.09	0.459	All species
2058	1498-2619	(27%)	.029	.020-.037 (31%)	4.57	0.578	Black crappie
11566	9256-13875	(20%)	.133	.105-.161 (21%)	25.70	0.358	Bluegill
2	0-7	(209%)	.000	.000-.000 (209%)	0.00	0.447	Carp
2541	1898-3184	(25%)	.045	.000-.104 (128%)	5.65	2.155	Largemouth bass
			****	NOT RECORDED	****		Muskellunge
119	0-269	(125%)	.000	.000-.001 (136%)	0.27	8.686	Northern pike
75	0-152	(101%)	.000	.000-.001 (111%)	0.17	2.356	Smallmouth bass
			****	NOT RECORDED	****		Tiger muskie
779	441-1117	(43%)	.007	.003-.011 (57%)	1.73	2.691	Walleye
			****	NOT RECORDED	****		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
148415	130203-166626 (12%)	1.624	1.453-1.796 (11%)	814.96	329.81	All species
4598	3265-5930 (29%)	.061	.043-.079 (30%)	25.25	10.22	Black crappie
77393	64543-90242 (17%)	.806	.698-.914 (13%)	424.97	171.98	Bluegill
5	0-15 (208%)	.000	.000-.000 (209%)	0.03	0.01	Carp
63460	55594-71327 (12%)	.716	.595-.837 (17%)	348.47	141.02	Largemouth bass
18	0-38 (106%)	.000	.000-.000 (95%)	0.10	0.04	Muskellunge
203	25-382 (88%)	.004	.000-.008 (97%)	1.12	0.45	Northern pike
2137	1585-2690 (26%)	.031	.018-.043 (41%)	11.74	4.75	Smallmouth bass
2	0-7 (236%)	.000	.000-.000 (245%)	0.01	0.00	Tiger muskie
593	416-770 (30%)	.006	.003-.009 (49%)	3.26	1.32	Walleye
5	0-27 (430%)	.000	.000-.000 (430%)	0.03	0.01	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
37680	33126-42233 (12%)	.417	.364-.470 (13%)	206.90	0.254	All species
1065	772-1358 (27%)	.015	.010-.019 (29%)	5.85	0.232	Black crappie
7342	5935-8749 (19%)	.079	.065-.093 (17%)	40.31	0.095	Bluegill
1	0-3 (208%)	.000	.000-.000 (208%)	0.01	0.203	Carp
27382	23858-30905 (13%)	.300	.252-.348 (16%)	150.36	0.431	Largemouth bass
67	0-145 (117%)	.000	.000-.001 (104%)	0.37	3.653	Muskellunge
325	114-535 (65%)	.005	.001-.010 (86%)	1.78	1.596	Northern pike
950	705-1194 (26%)	.012	.008-.017 (36%)	5.21	0.444	Smallmouth bass
2	0-6 (236%)	.000	.000-.000 (236%)	0.01	0.856	Tiger muskie
544	367-720 (32%)	.006	.003-.008 (46%)	2.98	0.916	Walleye
4	0-19 (430%)	.000	.000-.000 (430%)	0.02	0.701	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
83069	73031-93108 (12%)	.920	.804-1.037(13%)	184.60	0.560	All species
2348	1703-2994 (27%)	.032	.023-.042 (29%)	5.22	0.511	Black crappie
16186	13084-19288 (19%)	.174	.144-.205 (17%)	35.97	0.209	Bluegill
2	0-7 (209%)	.000	.000-.000 (209%)	0.00	0.447	Carp
60366	52598-68135 (13%)	.661	.556-.767 (16%)	134.15	0.951	Largemouth bass
148	0-320 (117%)	.001	.000-.002 (104%)	0.33	8.054	Muskellunge
716	252-1179 (65%)	.011	.002-.021 (86%)	1.59	3.518	Northern pike
2093	1554-2633 (26%)	.028	.018-.037 (36%)	4.65	0.979	Smallmouth bass
4	0-14 (236%)	.000	.000-.000 (236%)	0.01	1.887	Tiger muskie
1198	810-1587 (32%)	.012	.007-.018 (46%)	2.66	2.020	Walleye
8	0-41 (430%)	.000	.000-.001 (318%)	0.02	1.546	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	4.0	3.7-4.3	(7%)	0.3	13.0	255
SHORE	2.1	1.6-2.7	(25%)	0.3	5.8	36
BOAT & SHORE	3.8	3.5-4.1	(7%)	0.3	13.0	291
MILES TRAVELED	41.3	37.1-45.6	(10%)	1	3000	1725
SUCCESS RATING (1-10)	5.2	5.1-5.3	(2%)	1	10	1719

*65 samples were from split interviews of completed trips.

14.8% of all 1960 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 8 out of 1960 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	426	844	227	96	25	4	2			3
SHORE INTERVIEWS	181	97	28	16	7	2		2		

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

778 (39.7%)	ANY	All species
110 (5.6%)	BLC	Black crappie
364 (18.6%)	BLG	Bluegill
3 (0.2%)	CCF	Channel catfish
2 (0.1%)	CRP	Crappie spp.
668 (34.1%)	LMB	Largemouth bass
2 (0.1%)	NOP	Northern pike
2 (0.1%)	SMB	Smallmouth bass
31 (1.6%)	WAE	Walleye

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	552	14	13	7	4	-	1	1	1	-	1	-	-	-	-	-
RELEASE	577	10	2	2	-	1	1	-	1	-	-	-	-	-	-	-
Bluegill																
HARVEST	412	25	10	28	29	13	15	10	6	4	10	3	-	4	1	24
RELEASE	404	28	11	32	26	19	19	7	5	5	8	-	-	4	-	26
Largemouth bass																
HARVEST	542	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	160	75	66	41	35	20	45	31	15	10	13	8	11	7	2	55
Muskellunge																
HARVEST	594	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	592	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	592	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	590	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	594	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	535	47	3	2	2	5	-	-	-	-	-	-	-	-	-	-
Tiger muskie																
HARVEST	594	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	594	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	577	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	578	15	-	1	-	-	-	-	-	-	-	-	-	-	-	-

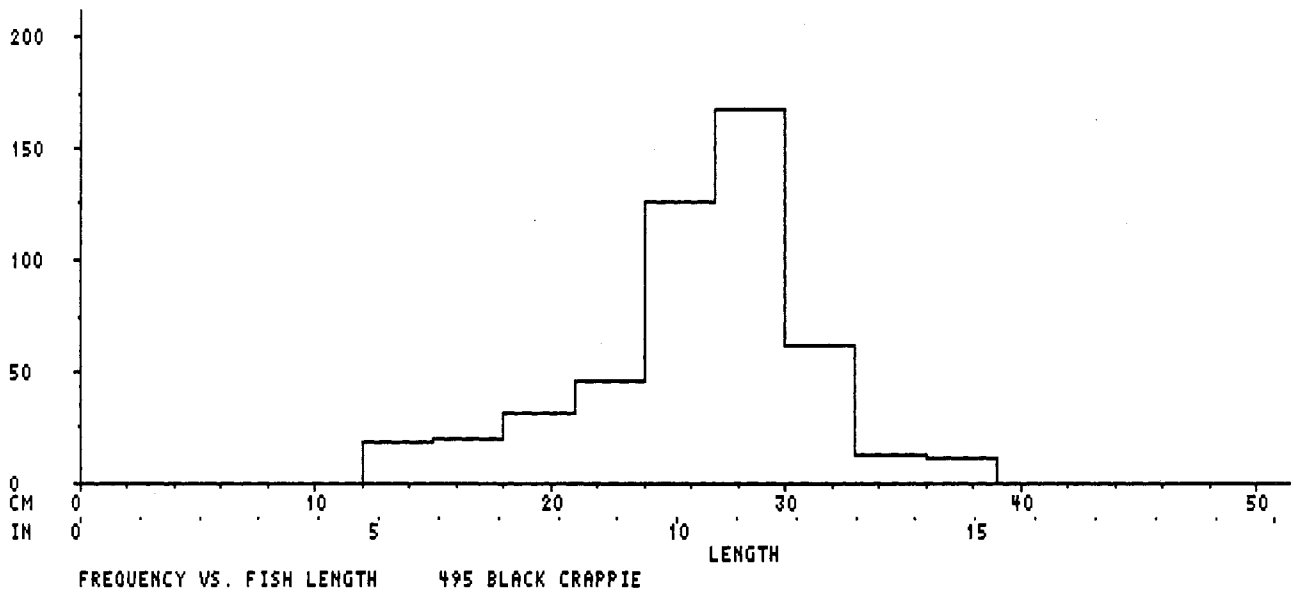


Figure 1. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

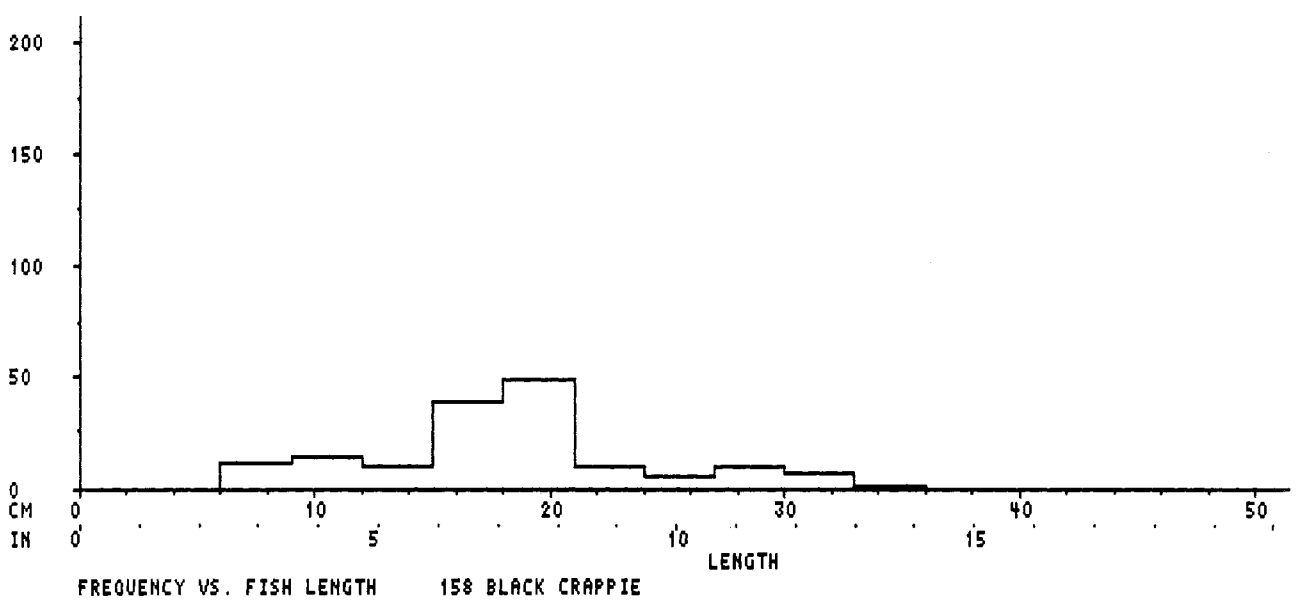


Figure 2. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

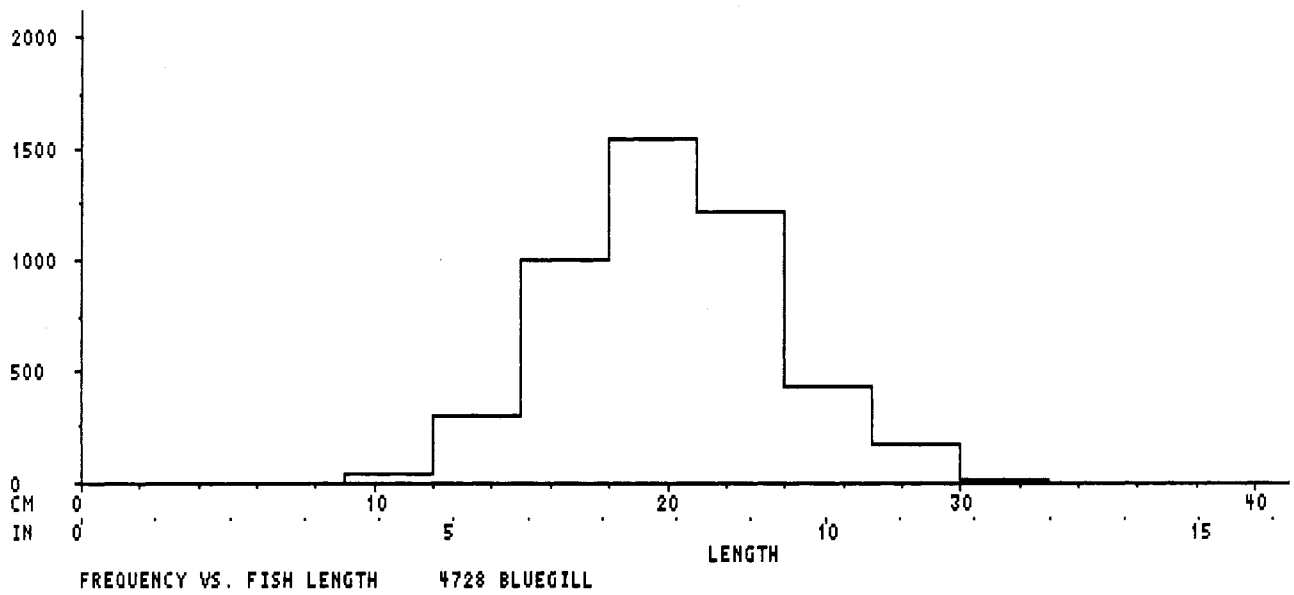


Figure 3. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

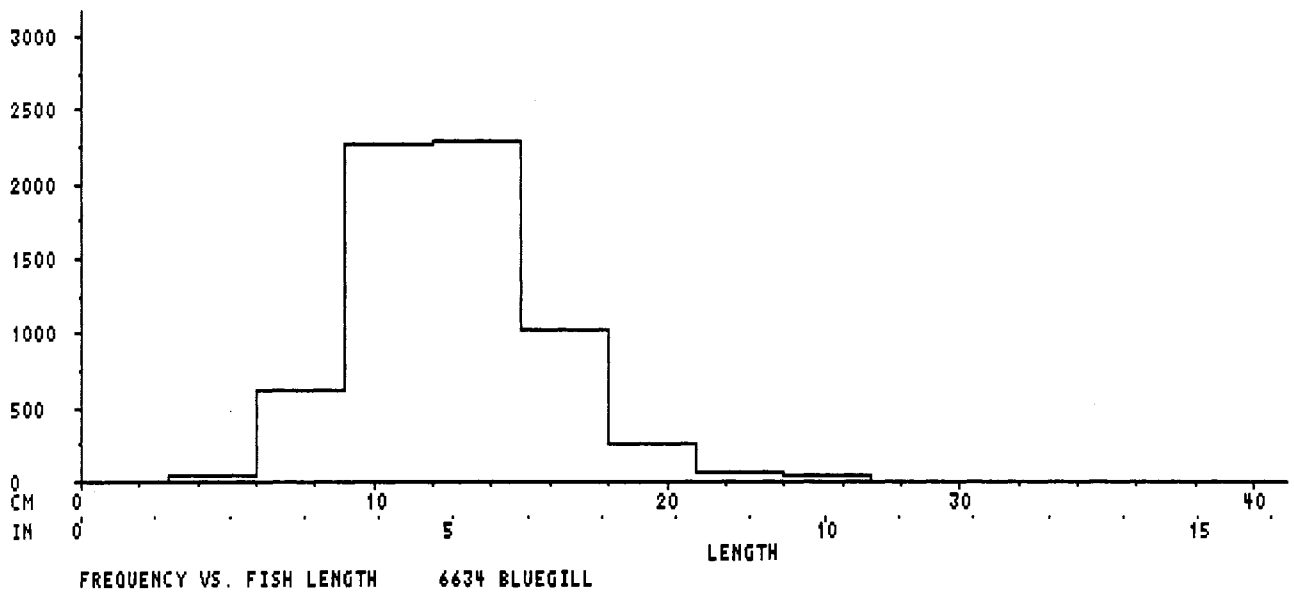


Figure 4. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

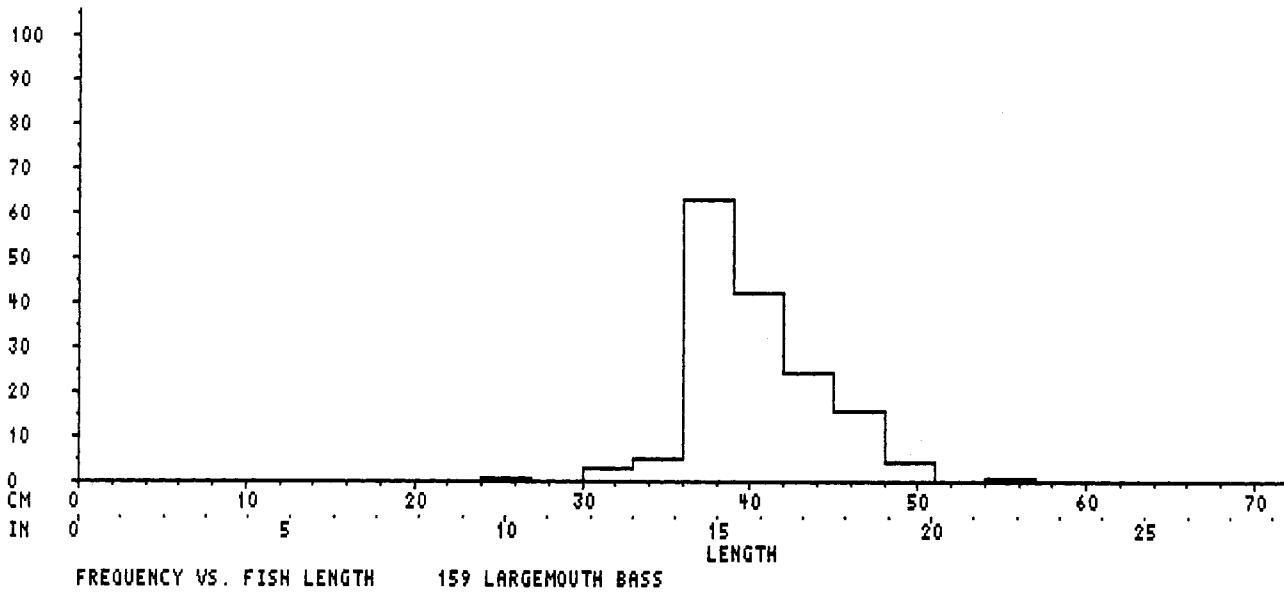


Figure 5. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

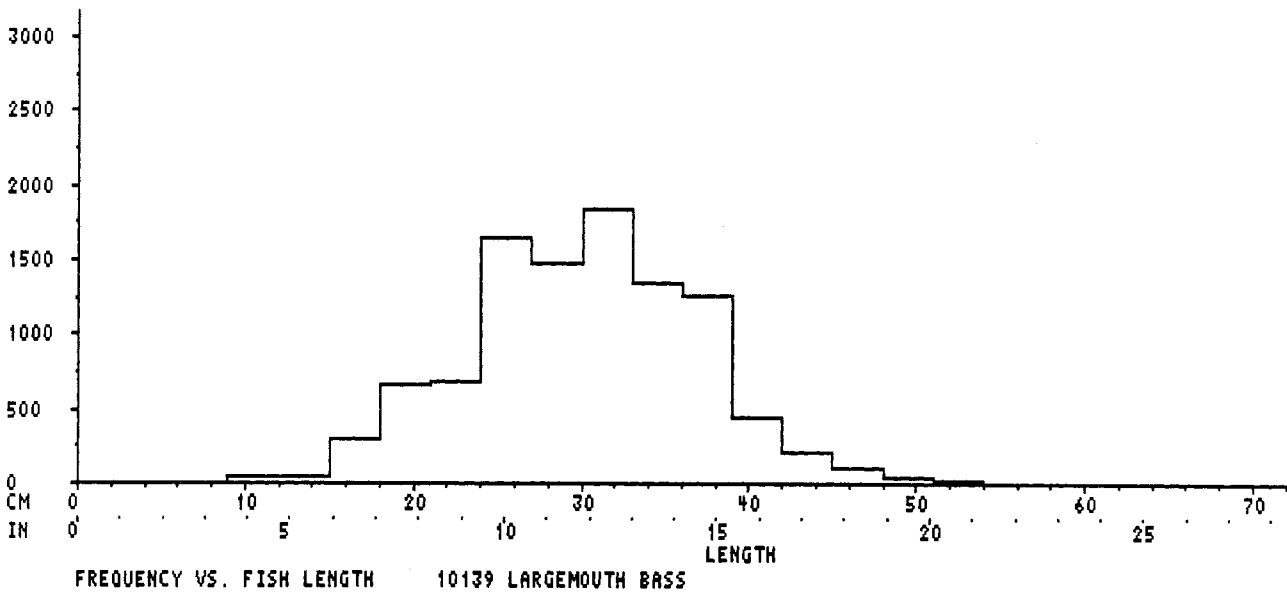


Figure 6. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 5.

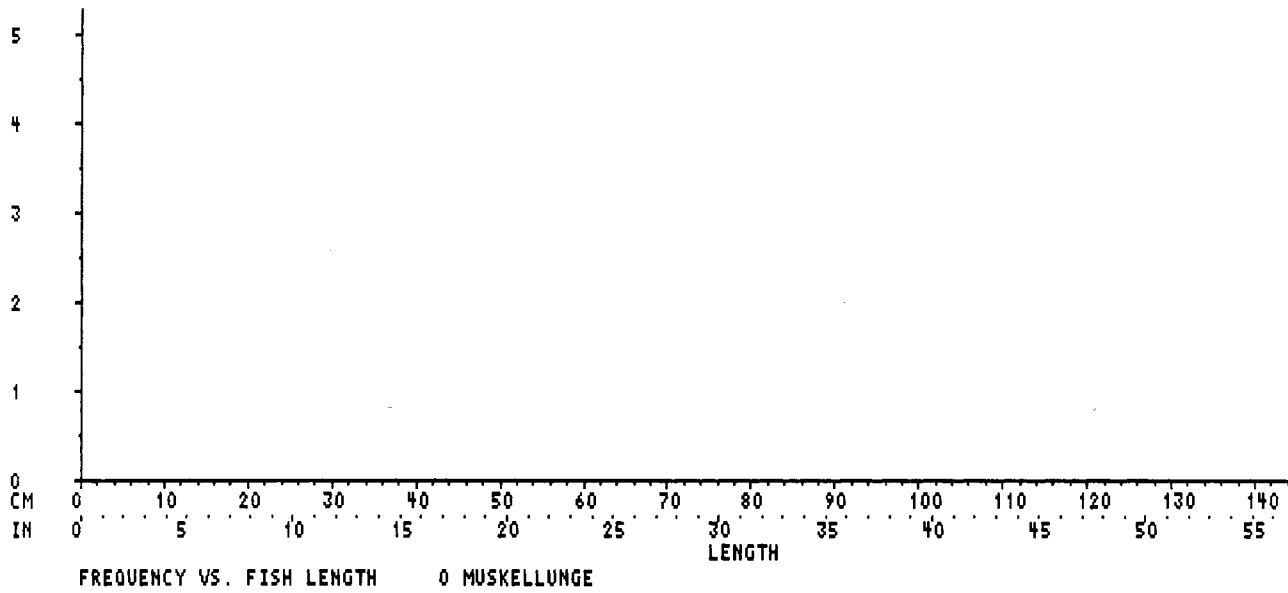


Figure 7. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of muskellunge harvested by all anglers.

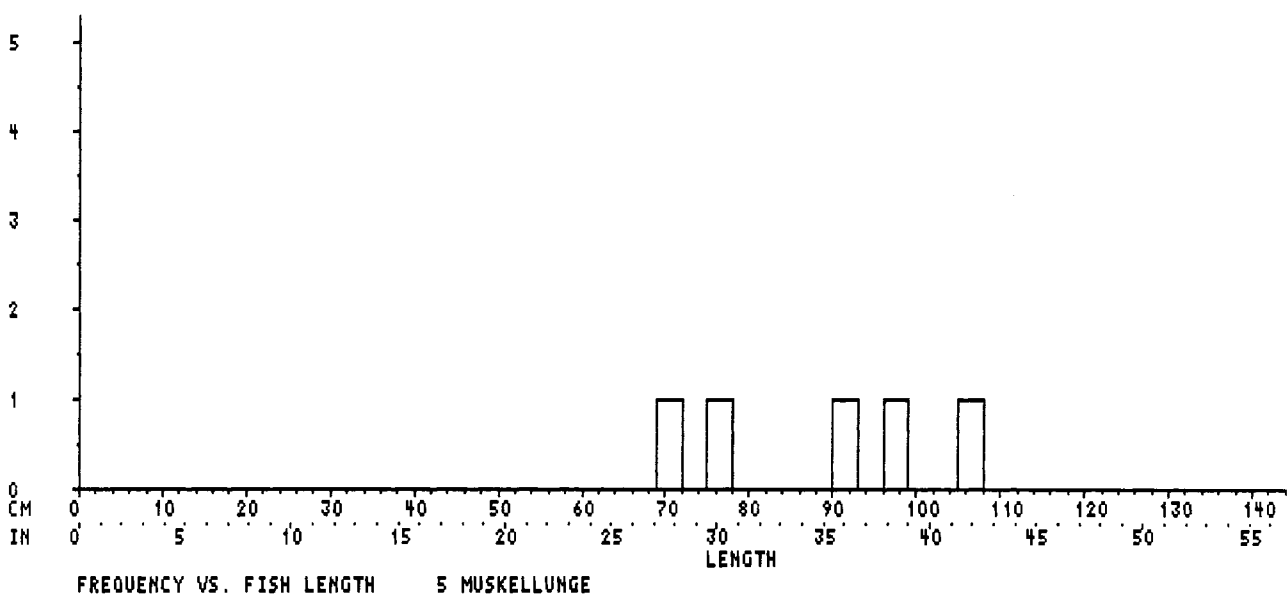


Figure 8. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of muskellunge released by all anglers.

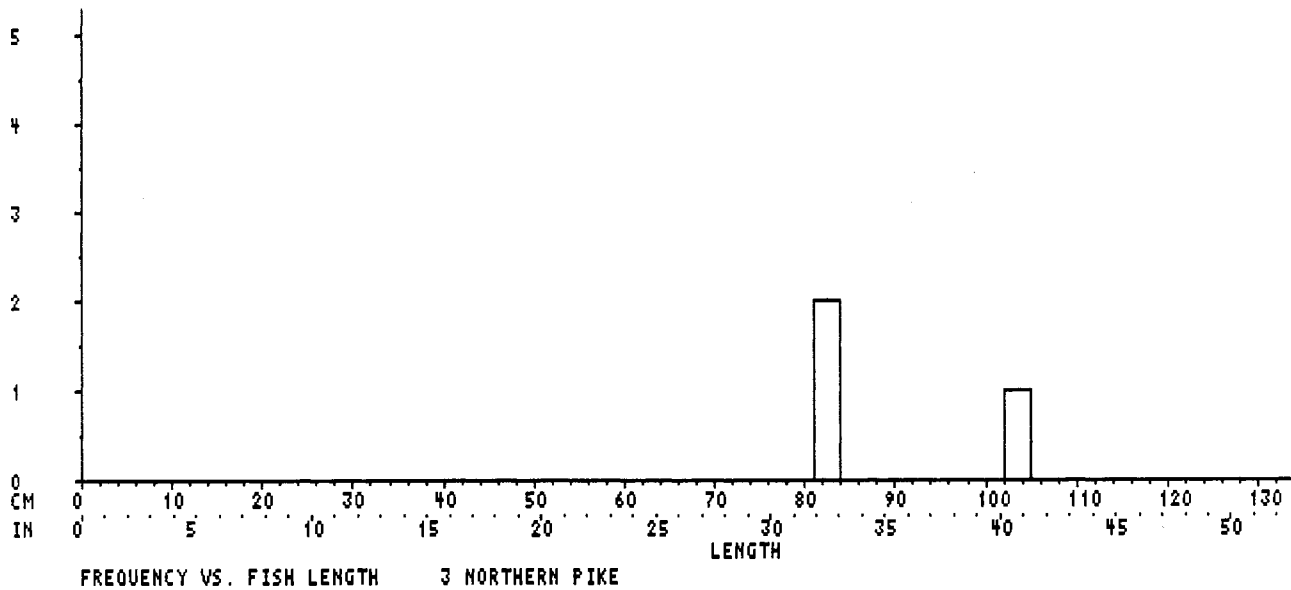


Figure 9. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of northern pike harvested by all anglers.

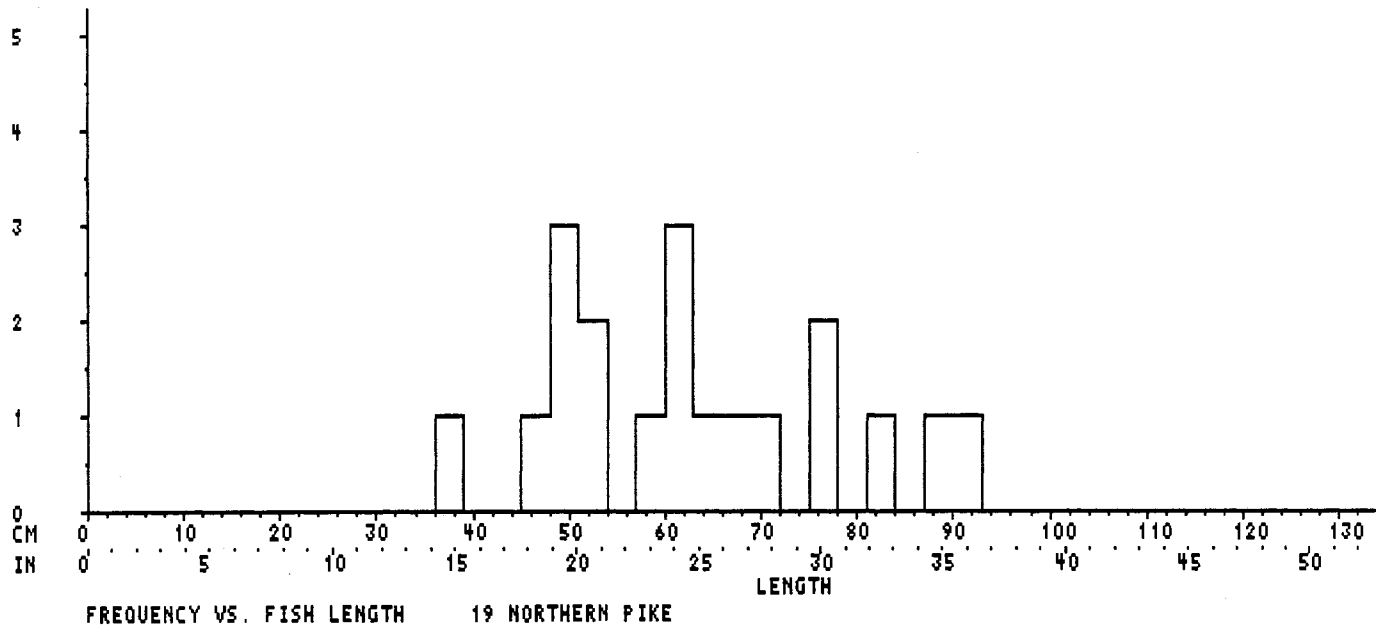


Figure 10. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of northern pike released by all anglers.

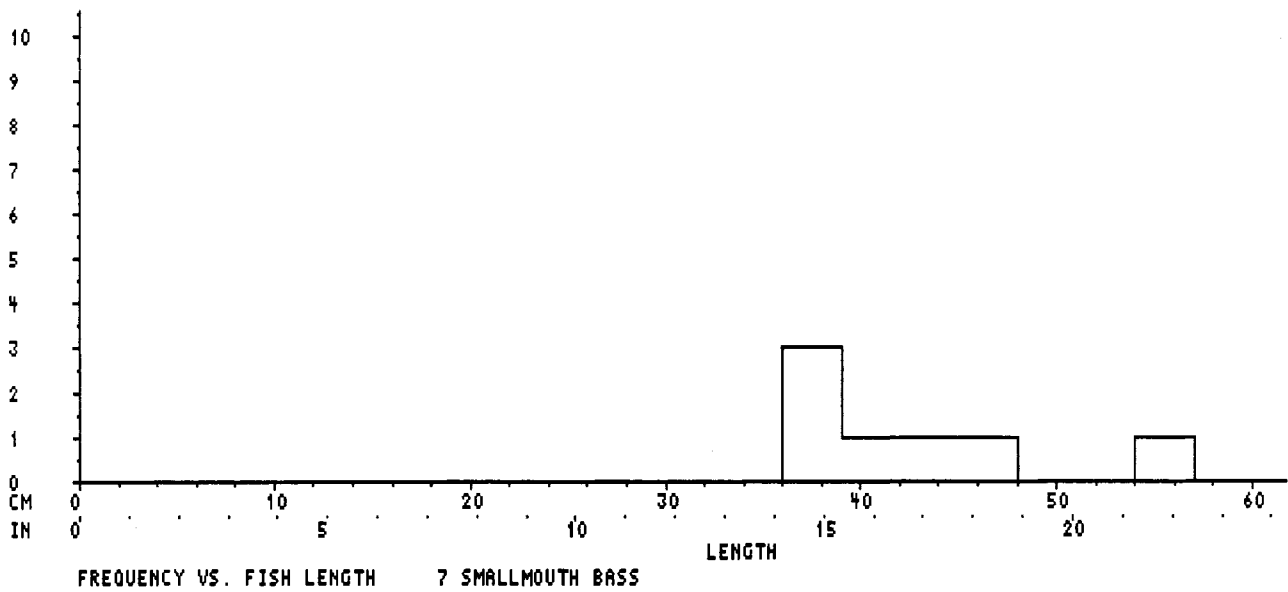


Figure 11. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of smallmouth bass harvested by all anglers.



Figure 12. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of smallmouth bass released by all anglers. Note the difference in scale from Figure 11.

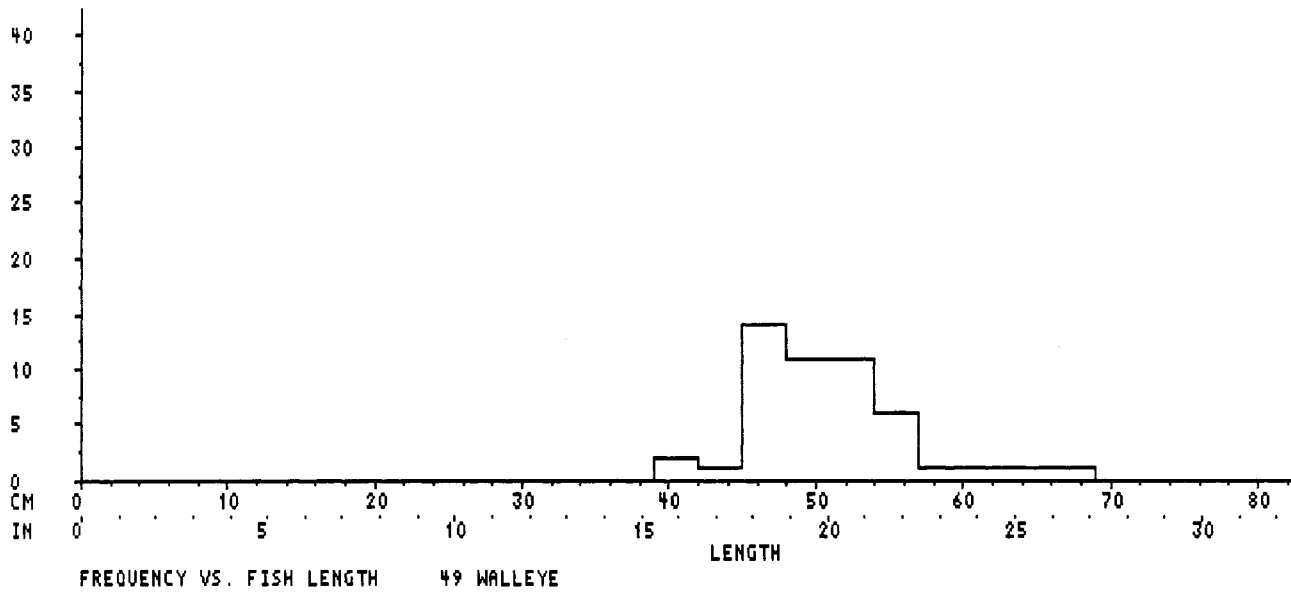


Figure 13. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of walleye harvested by all anglers.

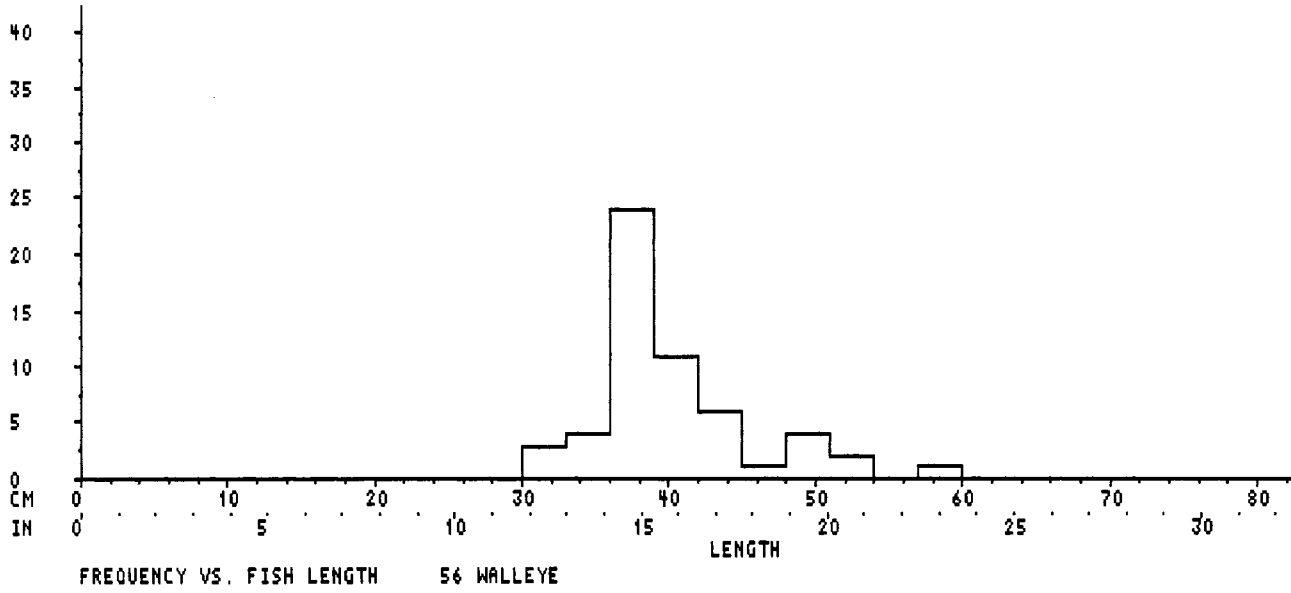


Figure 14. Apple Canyon Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of walleye released by all anglers.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

BEAVER DAM LAKE 2000
 55 ACRES
 REGION 4, DISTRICT 14

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 1803

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	4382	3849-4915 (12%)	80	70-90 (12%)	23%
	HOLIDAY	3895	3330-4460 (15%)	71	61-81 (15%)	47%
	TOTAL	8277	7500-9053 (9%)	151	137-165 (9%)	34%
SHORE	WEEKDAY	6266	5320-7212 (15%)	114	97-131 (15%)	18%
	HOLIDAY	4019	3451-4586 (14%)	73	63-84 (14%)	36%
	TOTAL	10285	9236-11334 (10%)	187	168-206 (10%)	25%
BOAT & SHORE	WEEKDAY	10648	9617-11679 (10%)	194	175-213 (10%)	20%
	HOLIDAY	7914	7113-8715 (10%)	144	130-159 (10%)	41%
	TOTAL	18562	17256-19867 (7%)	338	314-362 (7%)	29%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
6470	5281-7659	(18%)	.278	.219-.337 (21%)	291.21	117.85	All species
255	154-356	(40%)	.014	.007-.021 (52%)	11.47	4.64	Black crappie
3951	2997-4905	(24%)	.187	.134-.240 (28%)	177.84	71.97	Bluegill
615	415-816	(33%)	.029	.017-.041 (41%)	27.70	11.21	Channel catfish
			****	NOT RECORDED ****			Gizzard shad
197	36-359	(82%)	.007	.003-.011 (59%)	8.88	3.59	Largemouth bass
1015	411-1620	(60%)	.019	.009-.029 (52%)	45.70	18.49	Rainbow trout
			****	NOT RECORDED ****			Redear sunfish
			****	NOT RECORDED ****			Smallmouth bass
411	245-576	(40%)	.022	.012-.031 (45%)	18.48	7.48	White crappie
25	0-55	(116%)	.001	.000-.002 (133%)	1.14	0.46	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
1264	1032-1497	(18%)	.055	.042-.068 (24%)	56.90	0.195	All species
66	39-93	(41%)	.003	.002-.005 (53%)	2.98	0.260	Black crappie
416	299-534	(28%)	.018	.013-.024 (29%)	18.74	0.105	Bluegill
327	177-477	(46%)	.017	.006-.028 (64%)	14.71	0.531	Channel catfish
			****	NOT RECORDED ****			Gizzard shad
131	45-217	(66%)	.006	.003-.009 (56%)	5.90	0.664	Largemouth bass
211	108-314	(49%)	.005	.002-.008 (62%)	9.51	0.208	Rainbow trout
			****	NOT RECORDED ****			Redear sunfish
			****	NOT RECORDED ****			Smallmouth bass
103	57-149	(44%)	.005	.003-.007 (46%)	4.63	0.251	White crappie
9	0-22	(132%)	.000	.000-.001 (155%)	0.43	0.372	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
2787	2274-3300	(18%)	.121	.092-.149 (24%)	50.76	0.431	All species
146	86-206	(41%)	.008	.004-.012 (53%)	2.66	0.573	Black crappie
918	660-1176	(28%)	.040	.029-.052 (29%)	16.72	0.232	Bluegill
720	389-1051	(46%)	.037	.013-.061 (64%)	13.12	1.171	Channel catfish
			****	NOT RECORDED ****			Gizzard shad
289	99-479	(66%)	.013	.006-.020 (56%)	5.26	1.465	Largemouth bass
466	239-693	(49%)	.011	.004-.018 (62%)	8.48	0.459	Rainbow trout
			****	NOT RECORDED ****			Redear sunfish
			****	NOT RECORDED ****			Smallmouth bass
227	126-327	(44%)	.011	.006-.016 (46%)	4.13	0.553	White crappie
21	0-48	(132%)	.001	.000-.001 (155%)	0.38	0.820	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
13006	11290-14721 (13%)	.653	.554-.752 (15%)	585.37	236.90	All species
354	152-556 (57%)	.017	.009-.025 (46%)	15.93	6.45	Black crappie
6495	5178-7812 (20%)	.330	.252-.408 (24%)	292.33	118.31	Bluegill
1109	590-1628 (47%)	.049	.030-.068 (39%)	49.91	20.20	Channel catfish
6	0-15 (146%)	.000	.000-.000 (154%)	0.28	0.11	Gizzard shad
3128	2535-3722 (19%)	.192	.144-.240 (25%)	140.80	56.98	Largemouth bass
1302	716-1889 (45%)	.033	.019-.047 (43%)	58.61	23.72	Rainbow trout
3	0-10 (220%)	.000	.000-.000 (223%)	0.14	0.06	Redear sunfish
8	0-24 (204%)	.000	.000-.002 (236%)	0.36	0.14	Smallmouth bass
557	343-770 (38%)	.030	.017-.044 (44%)	25.05	10.14	White crappie
43	0-96 (121%)	.001	.000-.003 (147%)	1.95	0.79	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
2507	2153-2860 (14%)	.132	.106-.158 (20%)	112.82	0.193	All species
82	40-123 (51%)	.004	.002-.006 (47%)	3.68	0.231	Black crappie
515	389-641 (25%)	.023	.018-.029 (25%)	23.18	0.079	Bluegill
379	190-568 (50%)	.018	.008-.029 (59%)	17.04	0.341	Channel catfish
0	0-0 (169%)	.000	.000-.000 (189%)	0.01	0.023	Gizzard shad
1136	894-1377 (21%)	.072	.054-.090 (25%)	51.11	0.363	Largemouth bass
256	155-357 (39%)	.007	.004-.011 (44%)	11.51	0.196	Rainbow trout
0	0-1 (220%)	.000	.000-.000 (220%)	0.01	0.076	Redear sunfish
4	0-12 (223%)	.000	.000-.001 (241%)	0.17	0.480	Smallmouth bass
124	74-175 (40%)	.006	.004-.009 (42%)	5.59	0.223	White crappie
11	0-26 (126%)	.000	.000-.001 (152%)	0.51	0.263	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
5526	4746-6305 (14%)	.292	.235-.349 (20%)	100.65	0.425	All species
180	89-271 (51%)	.009	.005-.013 (47%)	3.28	0.509	Black crappie
1135	857-1414 (25%)	.052	.039-.064 (25%)	20.68	0.175	Bluegill
835	418-1251 (50%)	.041	.017-.065 (59%)	15.20	0.753	Channel catfish
0	0-1 (169%)	.000	.000-.000 (189%)	0.01	0.051	Gizzard shad
2504	1971-3036 (21%)	.159	.119-.198 (25%)	45.60	0.800	Largemouth bass
564	341-786 (39%)	.016	.009-.024 (44%)	10.27	0.433	Rainbow trout
1	0-2 (223%)	.000	.000-.000 (223%)	0.01	0.168	Redear sunfish
8	0-27 (223%)	.001	.000-.002 (241%)	0.15	1.059	Smallmouth bass
274	163-385 (40%)	.014	.008-.020 (42%)	4.99	0.492	White crappie
25	0-57 (126%)	.001	.000-.002 (152%)	0.46	0.580	Yellow bullhead

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.8	3.6-4.1	(6%)	0.3	11.8	372
SHORE	2.0	1.9-2.2	(8%)	0.1	6.7	258
BOAT & SHORE	3.1	2.9-3.3	(5%)	0.1	11.8	630
MILES TRAVELED	32.6	31.3-33.9	(4%)	2	400	1321
SUCCESS RATING (1-10)	4.1	4.0-4.3	(4%)	1	10	1319

*292 samples were from split interviews of completed trips.
42.3% of all 1491 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 3 out of 1491 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	191	228	57	15						
SHORE INTERVIEWS	508	351	99	32	6	3				1

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

727 (48.8%)	ANY	All species
165 (11.1%)	BLG	Bluegill
14 (0.9%)	BSS	Black bass spp.
175 (11.7%)	CCF	Channel catfish
114 (7.6%)	CRP	Crappie spp.
195 (13.1%)	LMB	Largemouth bass
87 (5.8%)	RBT	Rainbow trout
2 (0.1%)	SMB	Smallmouth 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	1092	7	6	3	1	1	-	-	-	-	-	-	-	-	-	-
RELEASE	1102	7	-	-	-	-	-	-	-	1	-	-	-	-	-	-
Bluegill																
HARVEST	961	25	8	19	5	8	15	8	10	-	5	1	6	5	-	34
RELEASE	930	70	34	26	12	6	9	2	3	-	5	-	1	1	-	11
Channel catfish																
HARVEST	1022	56	15	5	2	3	5	-	2	-	-	-	-	-	-	-
RELEASE	1042	60	4	2	-	-	1	-	-	-	-	-	-	-	-	1
Largemouth bass																
HARVEST	1086	13	5	2	-	-	-	2	2	-	-	-	-	-	-	-
RELEASE	858	139	36	19	6	7	15	2	10	-	8	-	4	1	-	5
Rainbow trout																
HARVEST	1096	9	1	2	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1091	12	-	-	3	-	-	-	2	2	-	-	-	-	-	-
Smallmouth bass																
HARVEST	1110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1073	12	7	1	5	6	6	-	-	-	-	-	-	-	-	-
RELEASE	1081	24	1	-	1	-	-	-	2	1	-	-	-	-	-	-
Yellow bullhead																
HARVEST	1106	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1106	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-

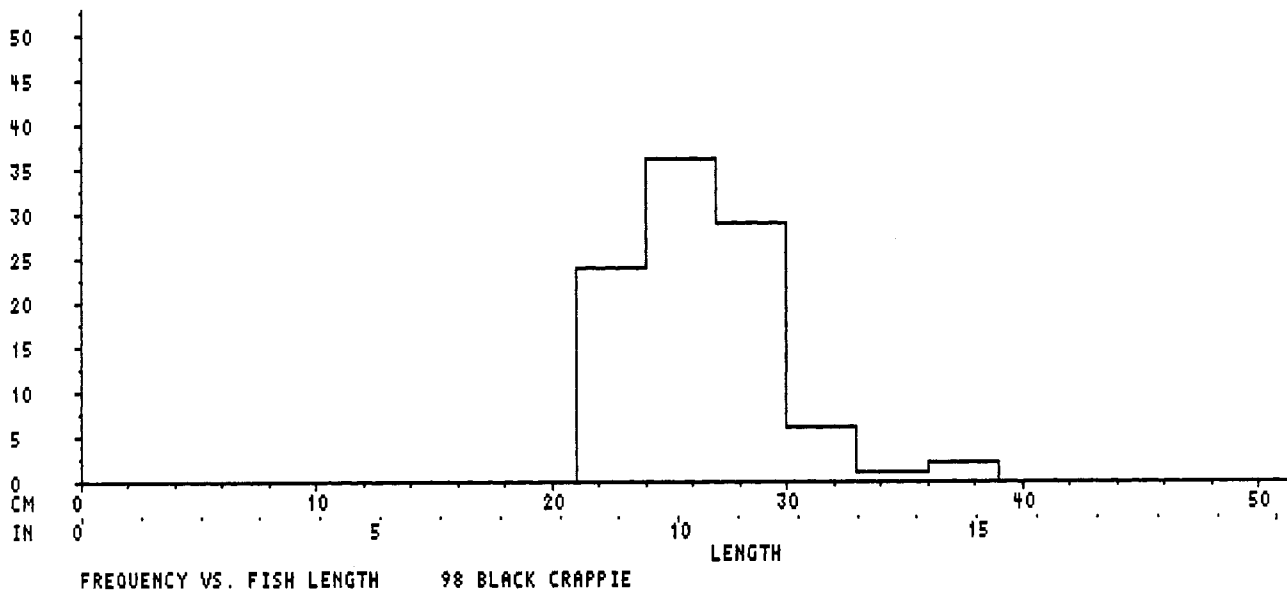


Figure 1. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

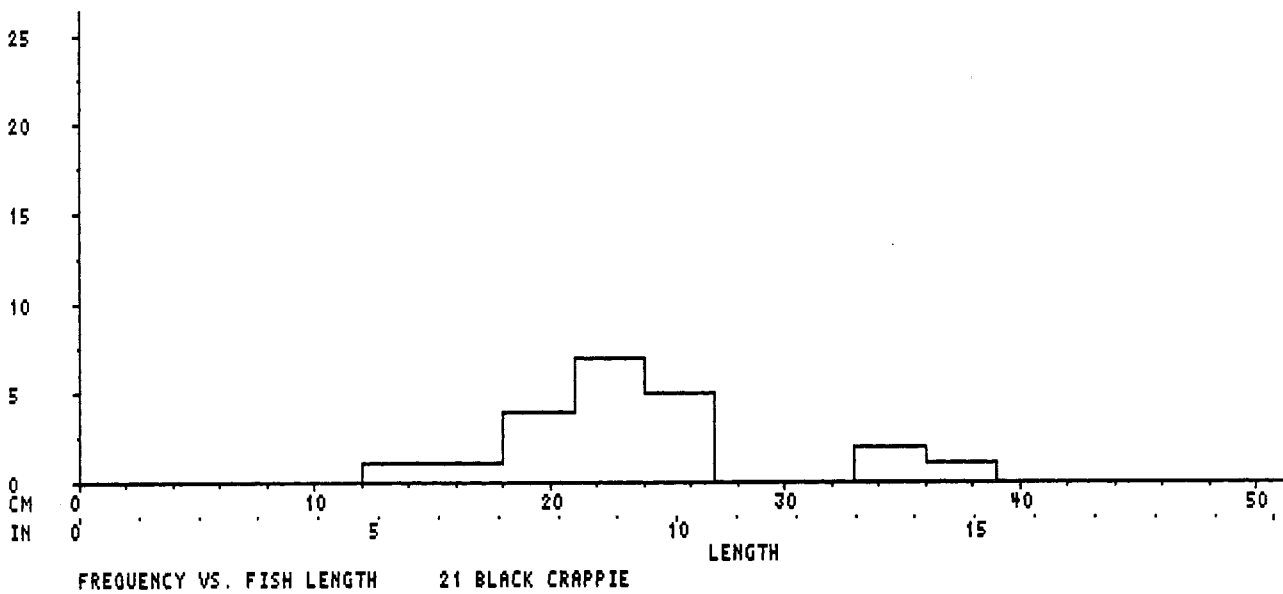


Figure 2. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers. Note the difference in scale from Figure 1.

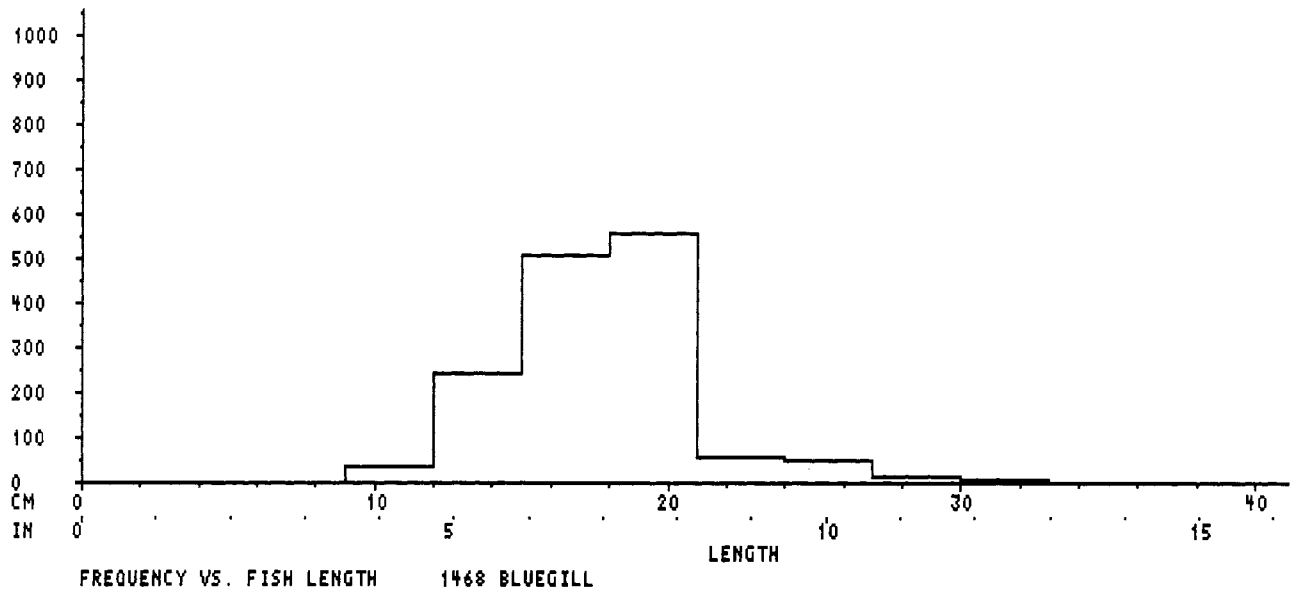


Figure 3. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

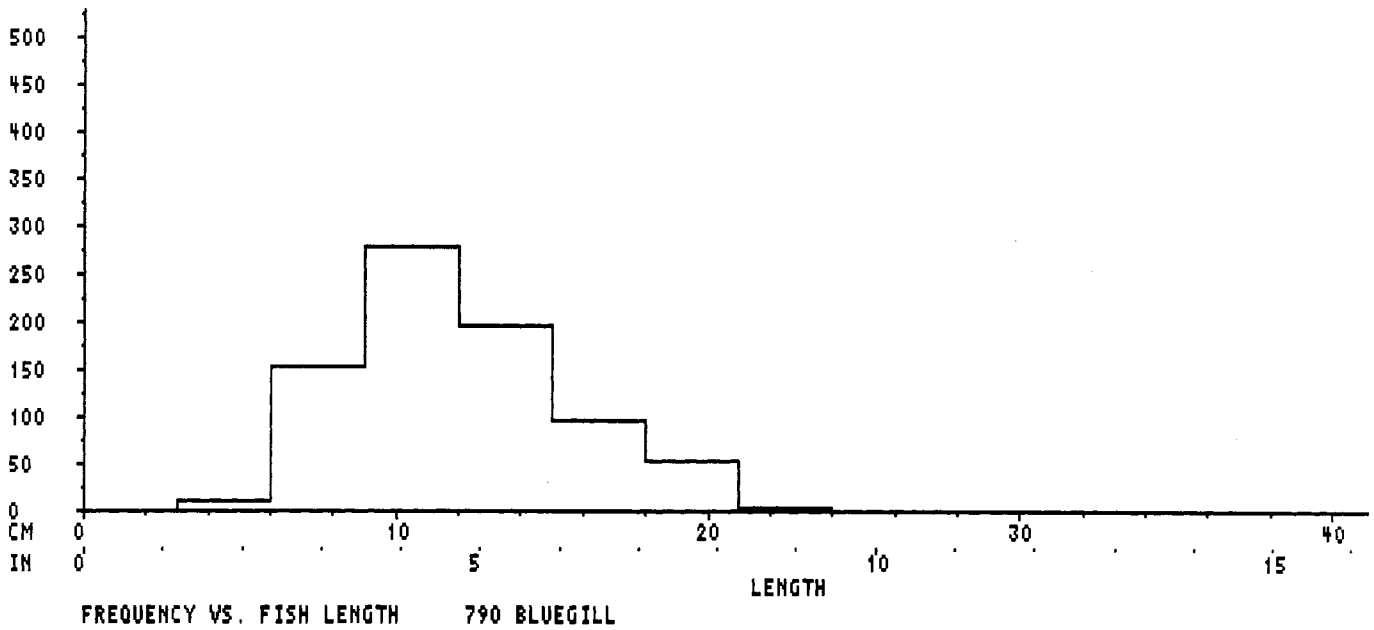


Figure 4. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

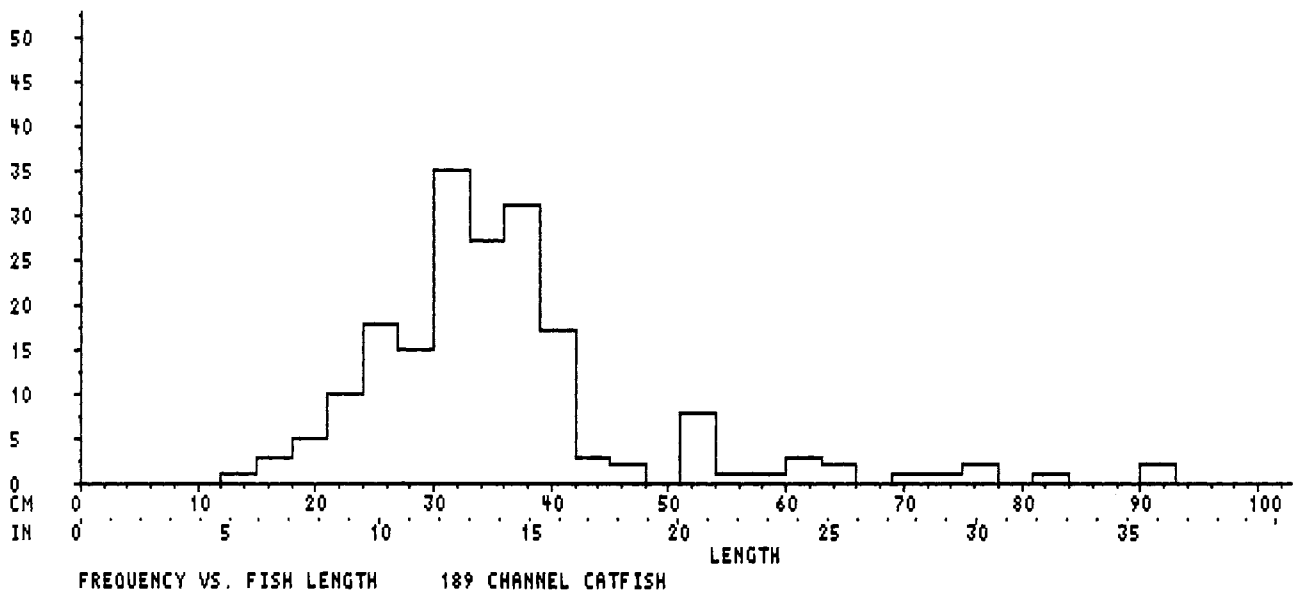


Figure 5. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

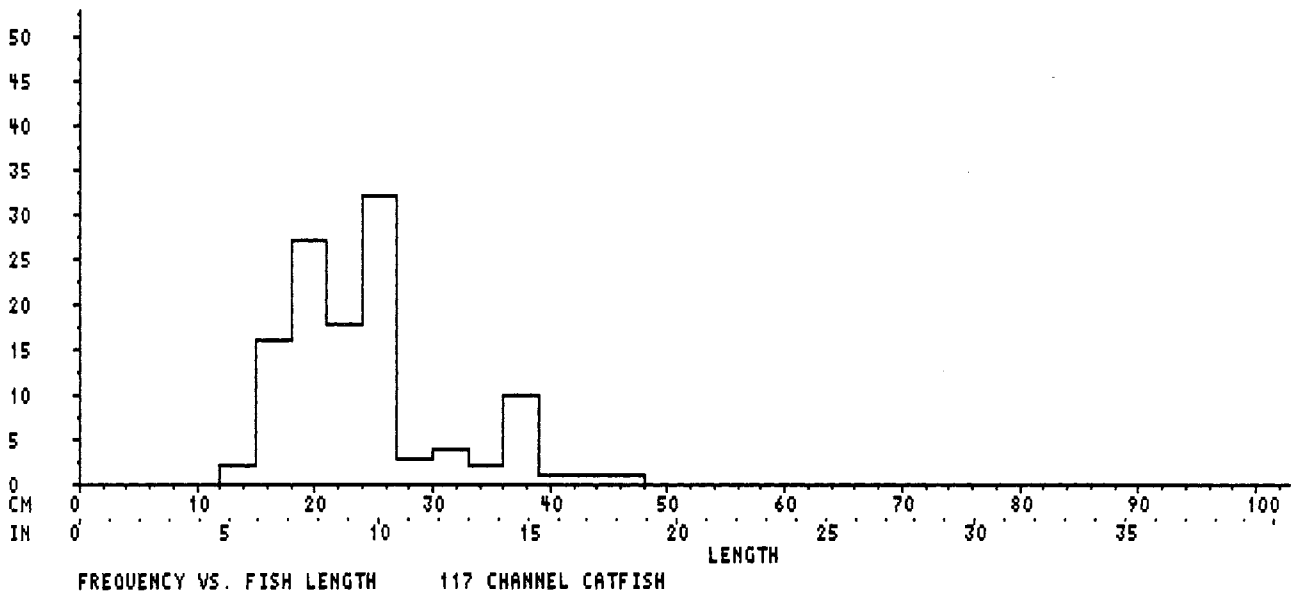


Figure 6. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

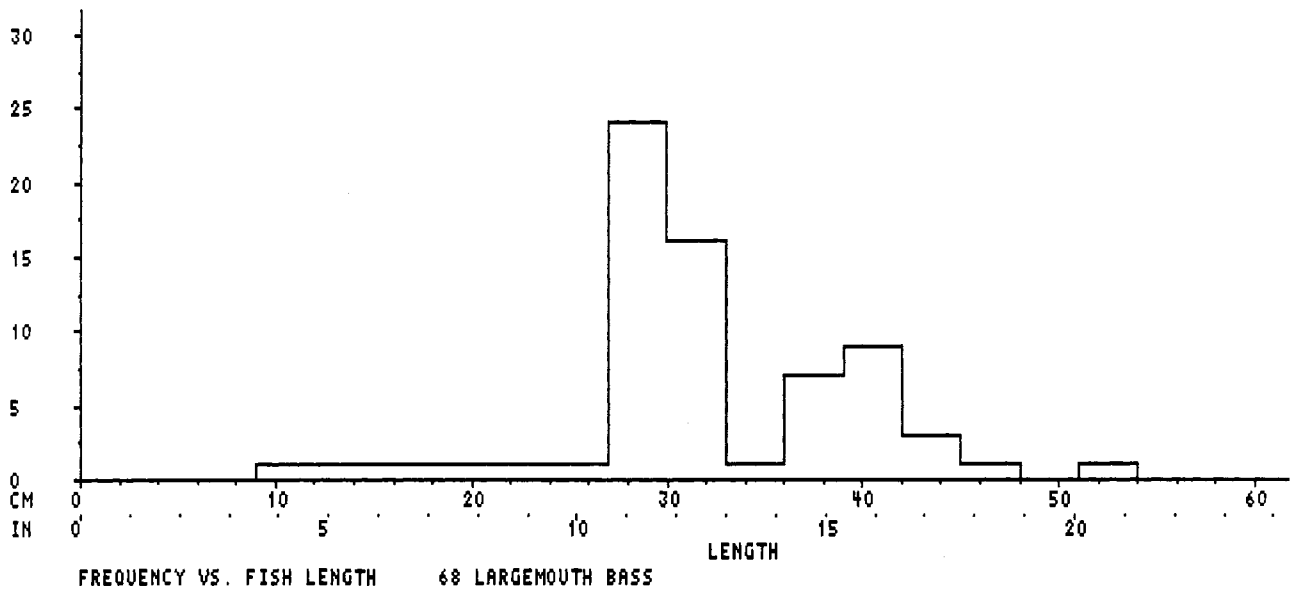


Figure 7. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

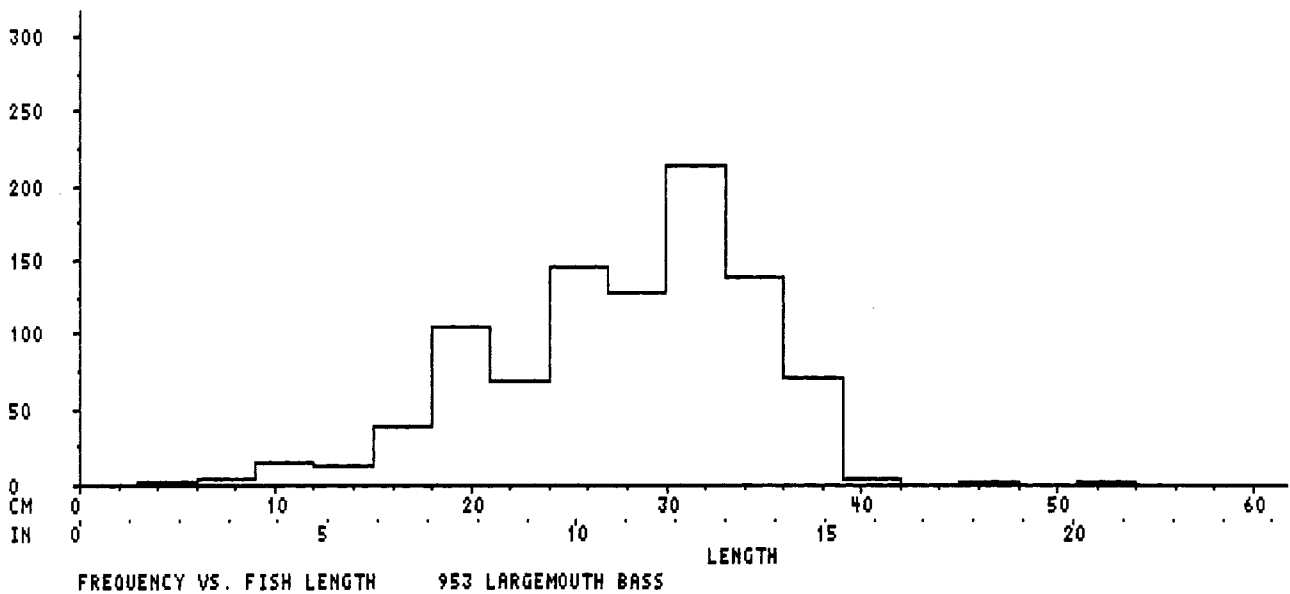


Figure 8. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 7.

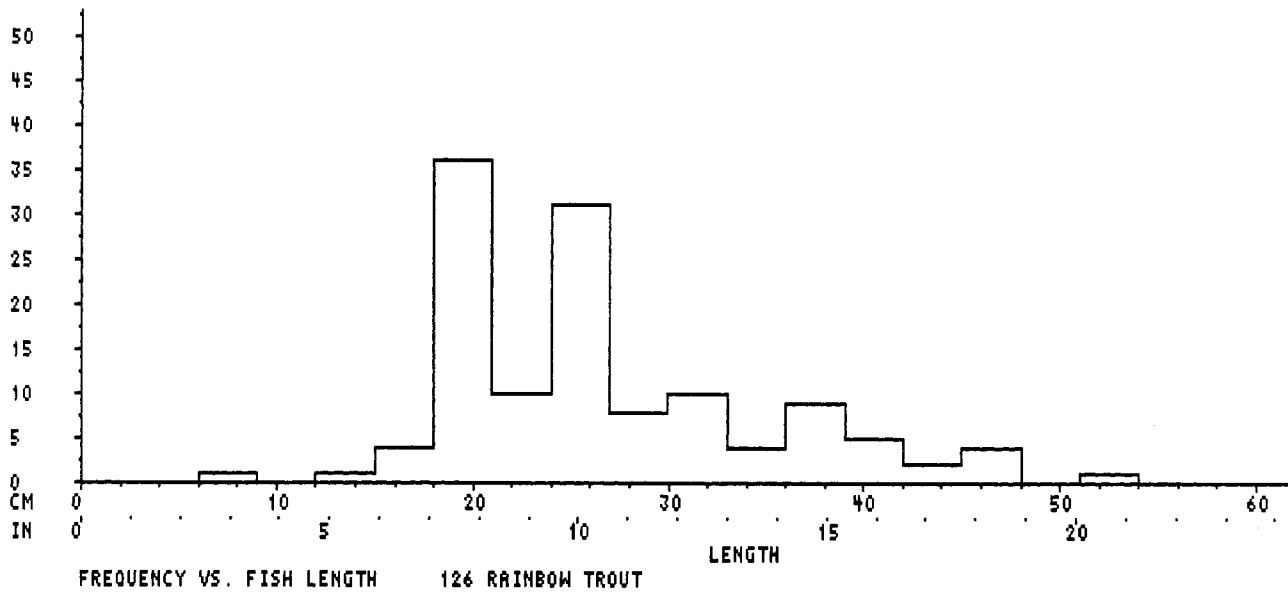


Figure 9. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of rainbow trout harvested by all anglers.

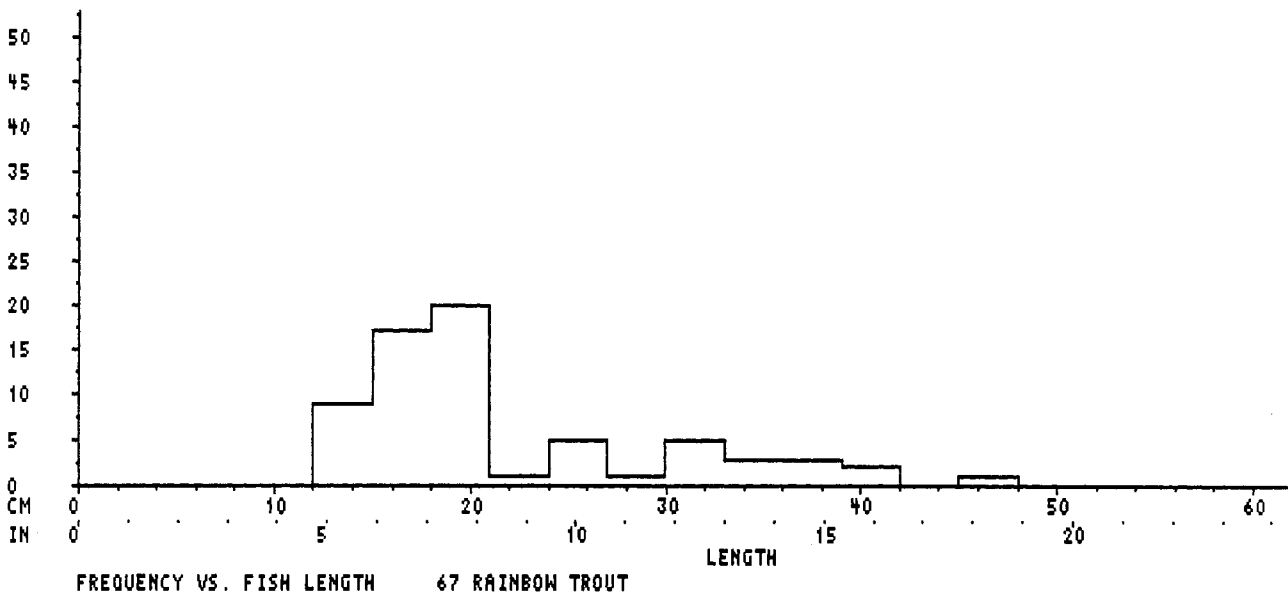


Figure 10. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of rainbow trout released by all anglers.

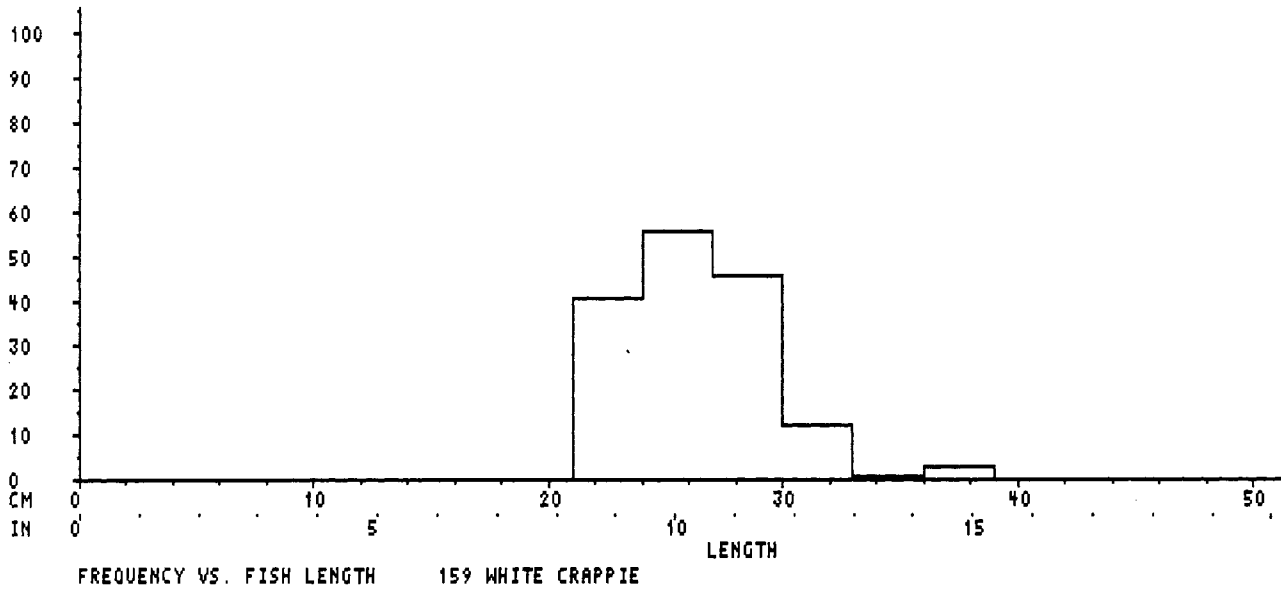


Figure 11. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

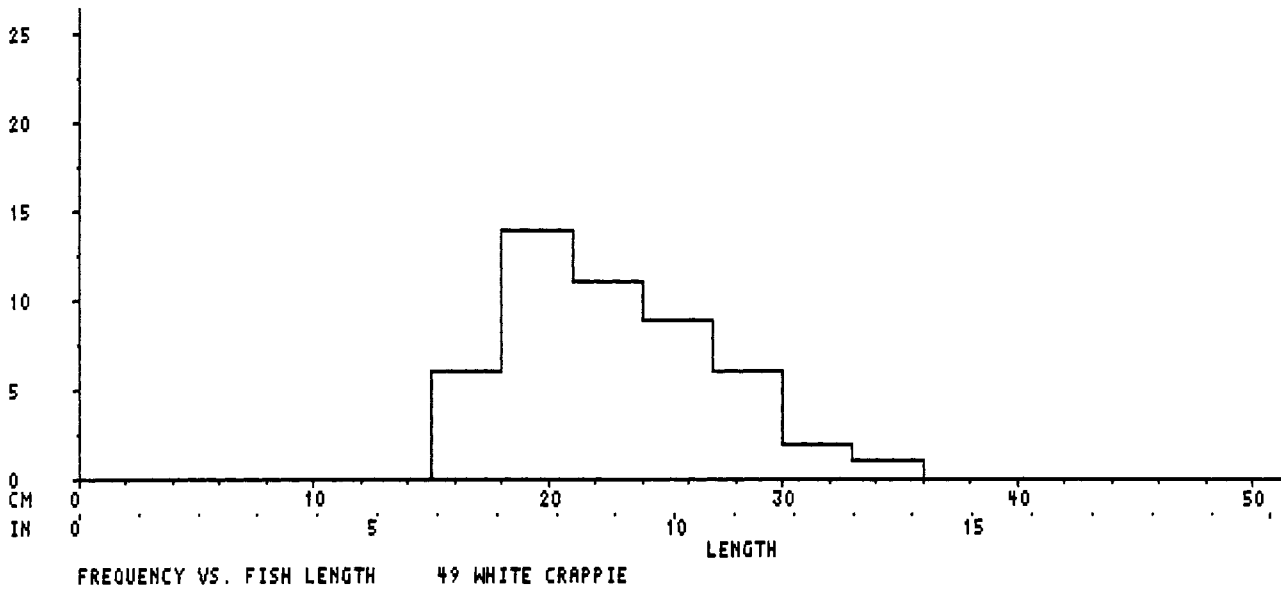


Figure 12. Beaver Dam Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 11.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 CARLYLE LAKE
 22202 ACRES
 REGION 4, DISTRICT 16

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 451/693 = 65.1%

NUMBER OF INTERVIEWS: 2941

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	39673	33768-45578 (15%)	2	2-2	(15%) 7%
	HOLIDAY	36214	29306-43122 (19%)	2	1-2	(19%) 14%
	TOTAL	75888	66800-84975 (12%)	3	3-4	(12%) 10%
SHORE	WEEKDAY	13684	10735-16634 (22%)	1	0-1	(22%) 6%
	HOLIDAY	11719	9541-13897 (19%)	1	0-1	(19%) 15%
	TOTAL	25403	21737-29070 (14%)	1	1-1	(14%) 10%
BOAT & SHORE	WEEKDAY	53357	46757-59958 (12%)	2	2-3	(12%) 6%
	HOLIDAY	47933	40690-55176 (15%)	2	2-2	(15%) 14%
	TOTAL	101291	91491-111090 (10%)	5	4-5	(10%) 10%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
101696	84862-118531 (17%)	.562	.470-.653 (16%)	11.32	4.58	All species
		****	NOT RECORDED ****			Bigmouth buffalo
		****	NOT RECORDED ****			Black buffalo
63	6-119 (90%)	.000	.000-.001 (118%)	0.01	0.00	Black crappie
3188	1756-4620 (45%)	.014	.007-.021 (52%)	0.35	0.14	Bluegill
94	0-191 (103%)	.001	.000-.002 (185%)	0.01	0.00	Carp
19566	16158-22974 (17%)	.137	.088-.186 (36%)	2.18	0.88	Channel catfish
30	0-90 (206%)	.000	.000-.000 (205%)	0.00	0.00	Crappie spp.
143	21-265 (85%)	.000	.000-.001 (97%)	0.02	0.01	Flathead catfish
56	12-100 (78%)	.000	.000-.000 (88%)	0.01	0.00	Freshwater drum
289	39-540 (87%)	.001	.000-.001 (89%)	0.03	0.01	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
374	168-580 (55%)	.002	.001-.003 (68%)	0.04	0.02	Largemouth bass
9	0-28 (213%)	.000	.000-.000 (214%)	0.00	0.00	Longear sunfish
39	0-88 (126%)	.000	.000-.000 (119%)	0.00	0.00	Redear sunfish
20	0-60 (206%)	.000	.000-.000 (206%)	0.00	0.00	Sauger
6	0-17 (196%)	.000	.000-.000 (196%)	0.00	0.00	Striped bass x Whit
		****	NOT RECORDED ****			Shortnose gar
7	0-23 (213%)	.000	.000-.000 (214%)	0.00	0.00	Walleye
45	2-88 (95%)	.000	.000-.000 (108%)	0.01	0.00	Warmouth
56389	41066-71713 (27%)	.303	.224-.382 (26%)	6.28	2.54	White bass
21379	15629-27129 (27%)	.104	.081-.126 (22%)	2.38	0.96	White crappie
		****	NOT RECORDED ****			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
31160	26933-35388	(14%)	.171	.147-.195 (14%)	3.47	0.306	All species
			****	NOT RECORDED ****			Bigmouth buffalo
			****	NOT RECORDED ****			Black buffalo
19	2-36	(91%)	.000	.000-.000 (125%)	0.00	0.302	Black crappie
211	118-305	(44%)	.001	.000-.001 (50%)	0.02	0.066	Bluegill
122	0-273	(125%)	.001	.000-.002 (193%)	0.01	1.293	Carp
11452	9459-13444	(17%)	.071	.054-.088 (24%)	1.27	0.585	Channel catfish
7	0-20	(206%)	.000	.000-.000 (206%)	0.00	0.226	Crappie spp.
350	0-773	(121%)	.001	.000-.003 (130%)	0.04	2.452	Flathead catfish
21	2-40	(92%)	.000	.000-.000 (84%)	0.00	0.368	Freshwater drum
20	3-37	(84%)	.000	.000-.000 (85%)	0.00	0.069	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
295	130-459	(56%)	.001	.000-.002 (64%)	0.03	0.787	Largemouth bass
1	0-2	(213%)	.000	.000-.000 (213%)	0.00	0.074	Longear sunfish
3	0-6	(117%)	.000	.000-.000 (124%)	0.00	0.066	Redear sunfish
112	0-342	(206%)	.000	.000-.001 (206%)	0.01	5.715	Sauger
6	0-18	(196%)	.000	.000-.000 (196%)	0.00	1.061	Striped bass x Whit
			****	NOT RECORDED ****			Shortnose gar
4	0-14	(213%)	.000	.000-.000 (213%)	0.00	0.608	Walleye
7	0-14	(99%)	.000	.000-.000 (109%)	0.00	0.151	Warmouth
12549	9364-15735	(25%)	.066	.049-.082 (25%)	1.40	0.223	White bass
5983	4329-7636	(28%)	.030	.023-.036 (23%)	0.67	0.280	White crappie
			****	NOT RECORDED ****			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
68697	59376-78018 (14%)	.378	.325-.431 (14%)	3.09	0.676	All species
		****	NOT RECORDED ****			Bigmouth buffalo
		****	NOT RECORDED ****			Black buffalo
42	4-80 (91%)	.000	.000-.001 (125%)	0.00	0.667	Black crappie
466	260-672 (44%)	.002	.001-.003 (50%)	0.02	0.146	Bluegill
268	0-603 (125%)	.002	.000-.005 (193%)	0.01	2.850	Carp
25247	20854-29639 (17%)	.157	.119-.194 (24%)	1.14	1.290	Channel catfish
15	0-45 (206%)	.000	.000-.000 (205%)	0.00	0.498	Crappie spp.
772	0-1705 (121%)	.003	.000-.007 (130%)	0.03	5.405	Flathead catfish
46	4-88 (92%)	.000	.000-.000 (84%)	0.00	0.811	Freshwater drum
44	7-81 (84%)	.000	.000-.000 (85%)	0.00	0.152	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
649	287-1012 (56%)	.003	.001-.005 (64%)	0.03	1.735	Largemouth bass
1	0-5 (214%)	.000	.000-.000 (214%)	0.00	0.163	Longear sunfish
6	0-12 (117%)	.000	.000-.000 (124%)	0.00	0.145	Redear sunfish
247	0-754 (206%)	.001	.000-.003 (206%)	0.01	12.599	Sauger
13	0-39 (196%)	.000	.000-.000 (196%)	0.00	2.338	Striped bass x Whit
		****	NOT RECORDED ****			Shortnose gar
10	0-31 (214%)	.000	.000-.000 (213%)	0.00	1.341	Walleye
15	0-30 (99%)	.000	.000-.000 (109%)	0.00	0.333	Warmouth
27667	20643-34691 (25%)	.145	.109-.181 (25%)	1.25	0.491	White bass
13190	9545-16835 (28%)	.065	.050-.080 (23%)	0.59	0.617	White crappie
		****	NOT RECORDED ****			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
178928	151336-206520 (15%)	.947	.817-1.077 (14%)	19.91	8.06	All species
105	0-291 (177%)	.001	.000-.002 (192%)	0.01	0.00	Bigmouth buffalo
21	0-64 (206%)	.000	.000-.000 (206%)	0.00	0.00	Black buffalo
70	12-128 (83%)	.000	.000-.001 (108%)	0.01	0.00	Black crappie
7067	4733-9401 (33%)	.035	.022-.047 (37%)	0.79	0.32	Bluegill
223	96-351 (57%)	.001	.000-.003 (90%)	0.02	0.01	Carp
23000	19242-26758 (16%)	.160	.111-.209 (31%)	2.56	1.04	Channel catfish
30	0-90 (206%)	.000	.000-.000 (205%)	0.00	0.00	Crappie spp.
143	21-265 (85%)	.000	.000-.001 (97%)	0.02	0.01	Flathead catfish
1843	1334-2352 (28%)	.011	.005-.016 (50%)	0.21	0.08	Freshwater drum
289	39-540 (87%)	.001	.000-.001 (89%)	0.03	0.01	Green sunfish
18	0-44 (141%)	.000	.000-.001 (199%)	0.00	0.00	Gizzard shad
12169	9592-14746 (21%)	.048	.033-.062 (31%)	1.35	0.55	Largemouth bass
9	0-28 (213%)	.000	.000-.000 (214%)	0.00	0.00	Longear sunfish
39	0-88 (126%)	.000	.000-.000 (119%)	0.00	0.00	Redear sunfish
145	0-354 (143%)	.001	.000-.001 (149%)	0.02	0.01	Sauger
6	0-17 (196%)	.000	.000-.000 (196%)	0.00	0.00	Striped bass x Whit
29	0-69 (139%)	.000	.000-.000 (144%)	0.00	0.00	Shortnose gar
7	0-23 (213%)	.000	.000-.000 (214%)	0.00	0.00	Walleye
91	28-154 (69%)	.001	.000-.001 (99%)	0.01	0.00	Warmouth
92318	68269-116367 (26%)	.487	.369-.604 (24%)	10.27	4.16	White bass
39288	31062-47515 (21%)	.194	.158-.230 (18%)	4.37	1.77	White crappie
187	53-321 (72%)	.001	.000-.001 (76%)	0.02	0.01	Yellow bullhead
1830	869-2791 (53%)	.008	.004-.011 (45%)	0.20	0.08	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
44512	38984-50040 (12%)	.231	.203-.259 (12%)	4.95	0.249	All species
51	0-166 (222%)	.000	.000-.001 (212%)	0.01	0.491	Bigmouth buffalo
89	0-273 (206%)	.000	.000-.001 (206%)	0.01	4.249	Black buffalo
20	3-38 (86%)	.000	.000-.000 (117%)	0.00	0.290	Black crappie
371	236-505 (36%)	.002	.001-.002 (40%)	0.04	0.052	Bluegill
211	44-377 (79%)	.001	.000-.003 (122%)	0.02	0.943	Carp
12074	10041-14107 (17%)	.075	.058-.092 (23%)	1.34	0.525	Channel catfish
7	0-20 (206%)	.000	.000-.000 (206%)	0.00	0.226	Crappie spp.
350	0-773 (121%)	.001	.000-.003 (130%)	0.04	2.452	Flathead catfish
638	433-844 (32%)	.004	.002-.006 (54%)	0.07	0.346	Freshwater drum
20	3-37 (84%)	.000	.000-.000 (85%)	0.00	0.069	Green sunfish
2	0-4 (141%)	.000	.000-.000 (199%)	0.00	0.084	Gizzard shad
7268	5778-8759 (21%)	.027	.019-.034 (29%)	0.81	0.597	Largemouth bass
1	0-2 (213%)	.000	.000-.000 (213%)	0.00	0.074	Longear sunfish
3	0-6 (117%)	.000	.000-.000 (124%)	0.00	0.066	Redear sunfish
315	0-867 (175%)	.001	.000-.003 (182%)	0.04	2.165	Sauger
6	0-18 (196%)	.000	.000-.000 (196%)	0.00	1.061	Striped bass x Whit
8	0-20 (140%)	.000	.000-.000 (141%)	0.00	0.280	Shortnose gar
4	0-14 (213%)	.000	.000-.000 (213%)	0.00	0.608	Walleye
13	3-22 (73%)	.000	.000-.000 (106%)	0.00	0.140	Warmouth
15373	11573-19173 (25%)	.082	.062-.101 (24%)	1.71	0.167	White bass
7519	5696-9342 (24%)	.037	.030-.045 (21%)	0.84	0.191	White crappie
50	8-92 (83%)	.000	.000-.000 (93%)	0.01	0.269	Yellow bullhead
119	59-180 (51%)	.001	.000-.001 (48%)	0.01	0.065	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
98132	85945-110320 (12%)	.509	.448-.570 (12%)	4.42	0.548	All species
113	0-365 (222%)	.000	.000-.001 (212%)	0.01	1.082	Bigmouth buffalo
197	0-602 (206%)	.001	.000-.002 (206%)	0.01	9.367	Black buffalo
45	6-83 (86%)	.000	.000-.001 (117%)	0.00	0.640	Black crappie
817	521-1113 (36%)	.004	.002-.005 (40%)	0.04	0.116	Bluegill
464	97-832 (79%)	.003	.000-.007 (122%)	0.02	2.080	Carp
26619	22137-31101 (17%)	.165	.127-.203 (23%)	1.20	1.157	Channel catfish
15	0-45 (206%)	.000	.000-.000 (205%)	0.00	0.498	Crappie spp.
772	0-1705 (121%)	.003	.000-.007 (130%)	0.03	5.405	Flathead catfish
1407	954-1860 (32%)	.008	.004-.013 (54%)	0.06	0.763	Freshwater drum
44	7-81 (84%)	.000	.000-.000 (85%)	0.00	0.152	Green sunfish
3	0-8 (141%)	.000	.000-.000 (199%)	0.00	0.186	Gizzard shad
16024	12739-19309 (21%)	.059	.042-.076 (29%)	0.72	1.317	Largemouth bass
1	0-5 (214%)	.000	.000-.000 (214%)	0.00	0.163	Longear sunfish
6	0-12 (117%)	.000	.000-.000 (124%)	0.00	0.145	Redear sunfish
694	0-1912 (175%)	.002	.000-.007 (182%)	0.03	4.773	Sauger
13	0-39 (196%)	.000	.000-.000 (196%)	0.00	2.338	Striped bass x Whit
18	0-43 (140%)	.000	.000-.000 (141%)	0.00	0.617	Shortnose gar
10	0-31 (214%)	.000	.000-.000 (213%)	0.00	1.341	Walleye
28	8-49 (73%)	.000	.000-.000 (106%)	0.00	0.309	Warmouth
33891	25513-42269 (25%)	.180	.136-.224 (24%)	1.53	0.367	White bass
16577	12558-20596 (24%)	.082	.065-.099 (21%)	0.75	0.422	White crappie
111	19-203 (83%)	.000	.000-.001 (93%)	0.00	0.594	Yellow bullhead
263	130-397 (51%)	.001	.001-.002 (48%)	0.01	0.144	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	3.8-4.2 (5%)	1.0	12.0	489
SHORE	2.2	1.9-2.6 (14%)	0.2	8.8	88
BOAT & SHORE	3.7	3.5-3.9 (5%)	0.2	12.0	577
MILES TRAVELED	43.1	40.6-45.6 (6%)	1	1500	2315
SUCCESS RATING (1-10)	3.4	3.3-3.5 (3%)	1	10	2309

*279 samples were from split interviews of completed trips.

21.7% of all 2654 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 3 out of 2654 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	309	1424	82	9	1					
SHORE INTERVIEWS	282	338	116	76	4	11	2			

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

342 (12.9%)	ANY	All species
1 (0.0%)	CAP	Carp
9 (0.3%)	CCF	Channel catfish
650 (24.5%)	CRP	Crappie spp.
568 (21.4%)	LMB	Largemouth bass
1 (0.0%)	WAE	Walleye
429 (16.2%)	WHB	White bass
19 (0.7%)	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 buffalo																
HARVEST	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1061	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1059	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	1056	-	-	-	-	4	3	-	-	-	-	-	-	-	-	-
RELEASE	1036	4	-	11	6	2	-	-	-	2	2	-	-	-	-	-
Carp																
HARVEST	1059	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-
RELEASE	1055	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	804	53	73	44	27	15	13	8	6	10	4	1	1	2	-	2
RELEASE	995	33	23	4	1	6	-	-	-	-	1	-	-	-	-	-
Flathead catfish																
HARVEST	1051	4	2	4	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	1056	6	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	999	50	13	-	-	-	-	-	-	-	-	-	1	-	-	-
Green sunfish																
HARVEST	1056	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1062	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1046	11	6	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	803	122	53	35	10	19	8	5	4	-	1	2	1	-	-	-
Longear sunfish																
HARVEST	1059	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	1059	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
White bass																
HARVEST	905	13	11	9	8	14	7	5	8	8	5	4	8	18	2	38
RELEASE	894	45	14	19	4	30	1	2	3	2	23	-	-	7	-	19
White crappie																
HARVEST	935	13	15	20	26	2	7	11	9	5	18	2	-	-	-	-
RELEASE	913	19	36	29	20	10	14	4	11	-	6	-	-	-	-	1
Yellow bullhead																
HARVEST	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1059	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	1063	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1019	20	12	9	-	2	1	-	-	-	-	-	-	-	-	-

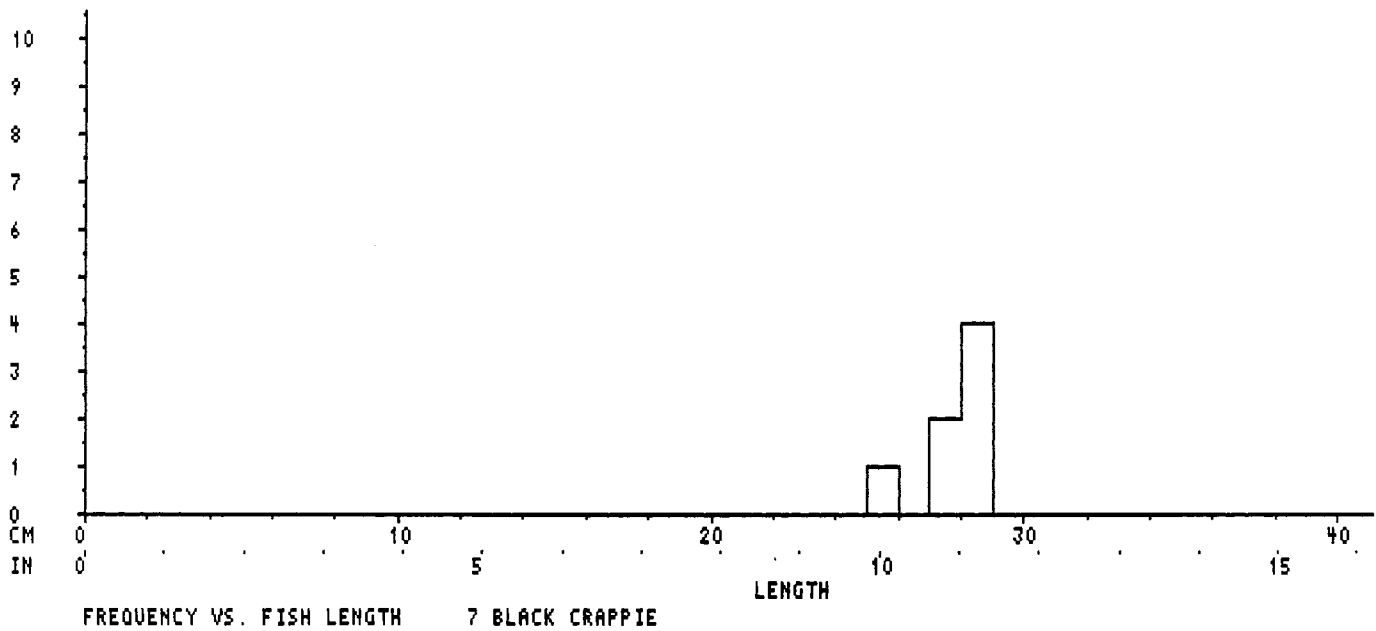


Figure 1. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

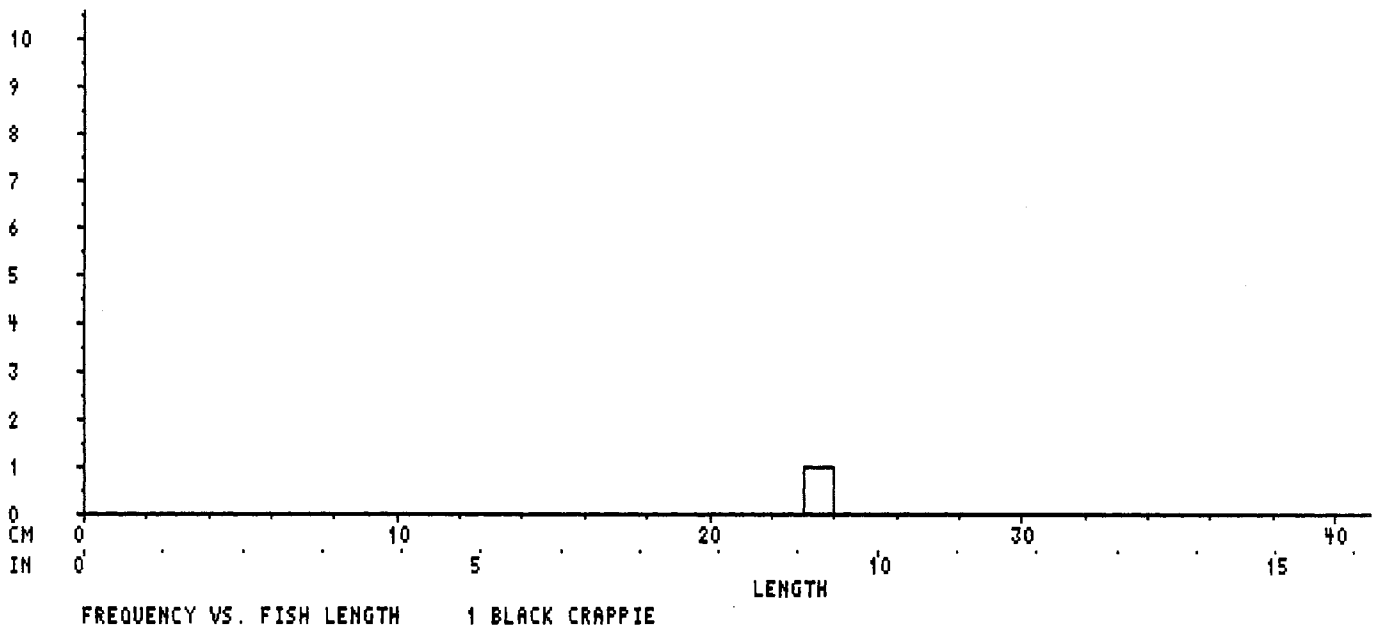


Figure 2. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

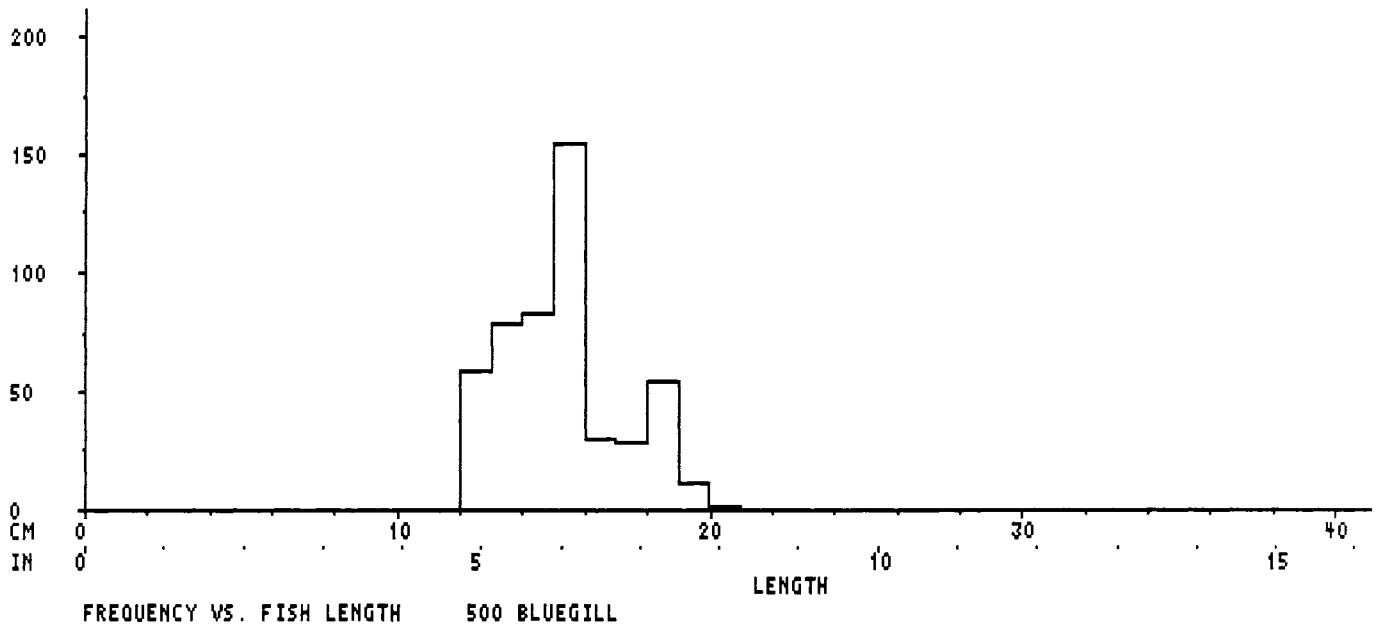


Figure 3. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

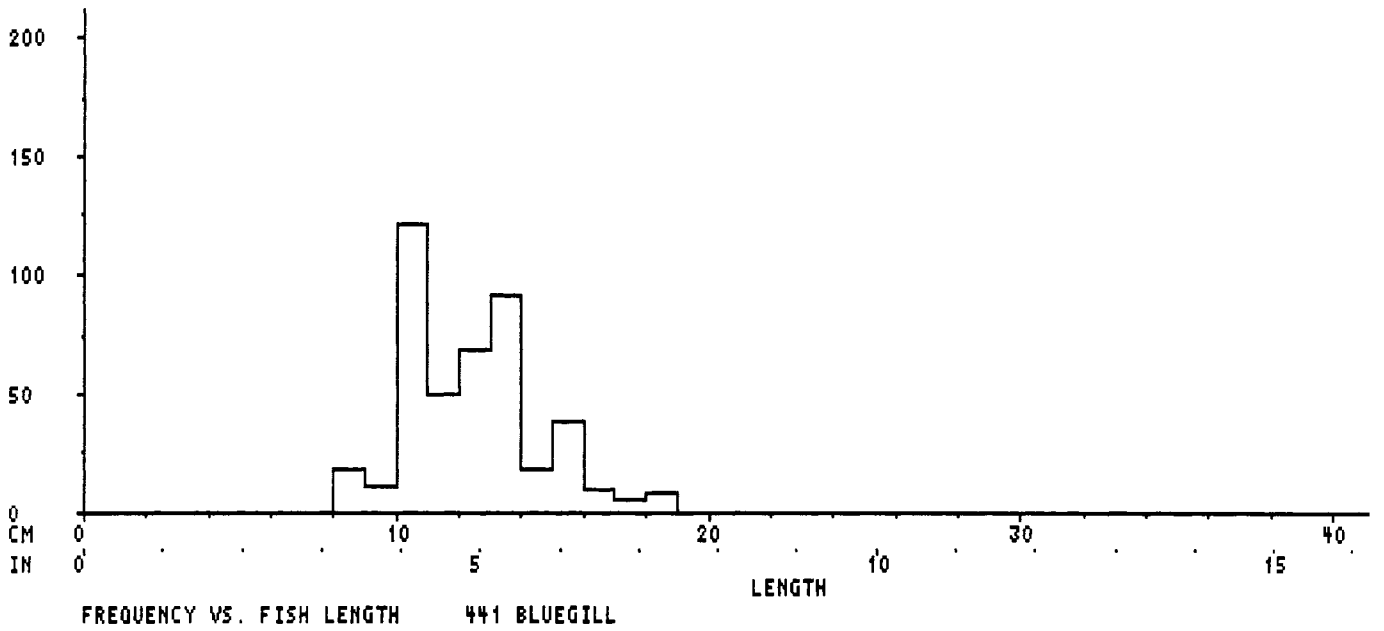


Figure 4. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

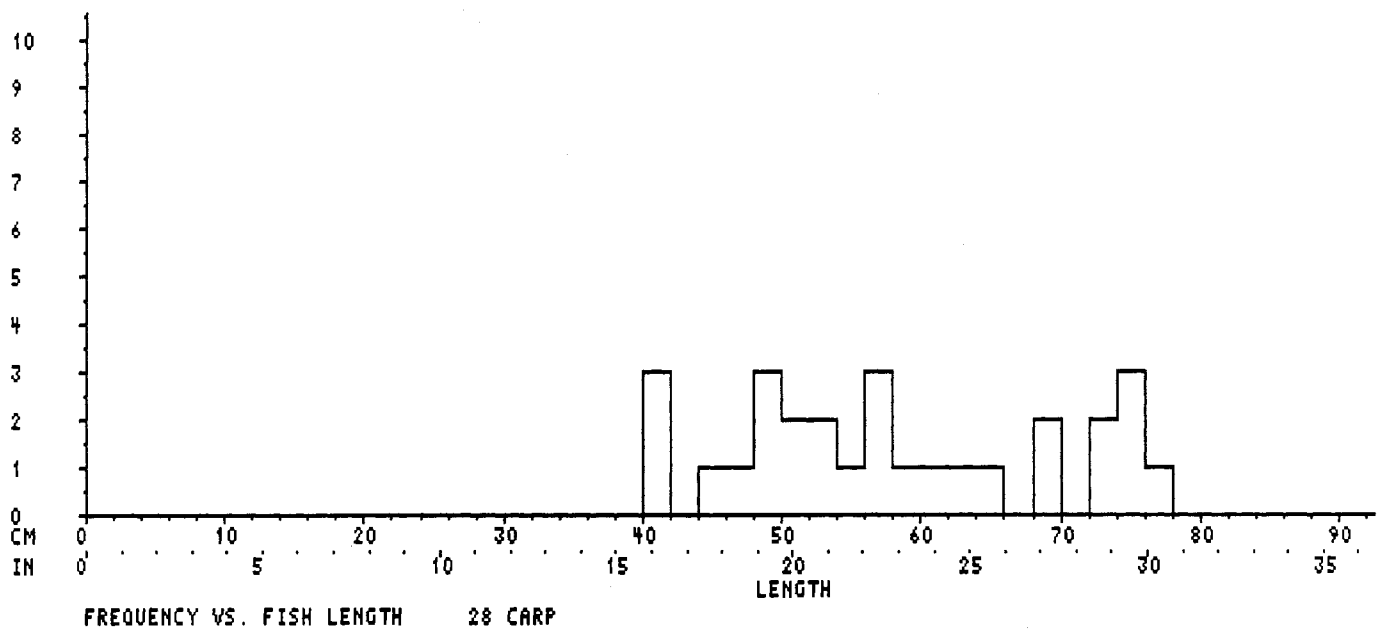


Figure 5. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

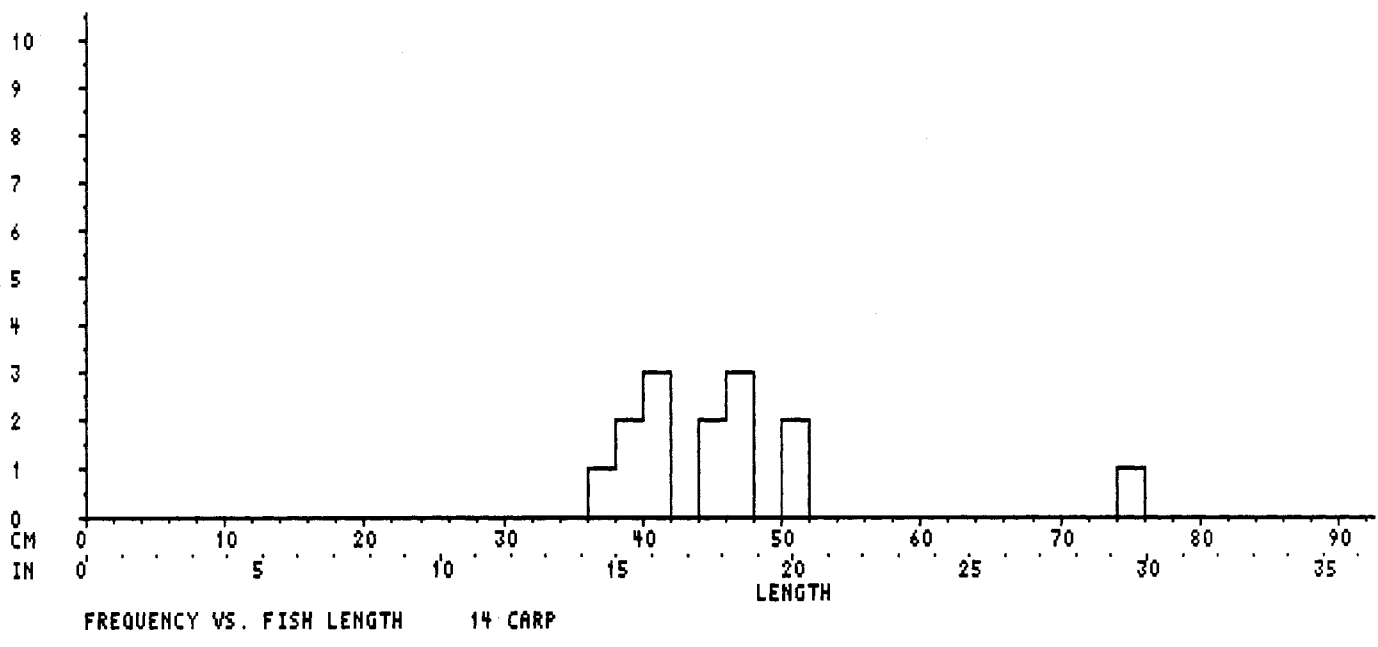


Figure 6. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

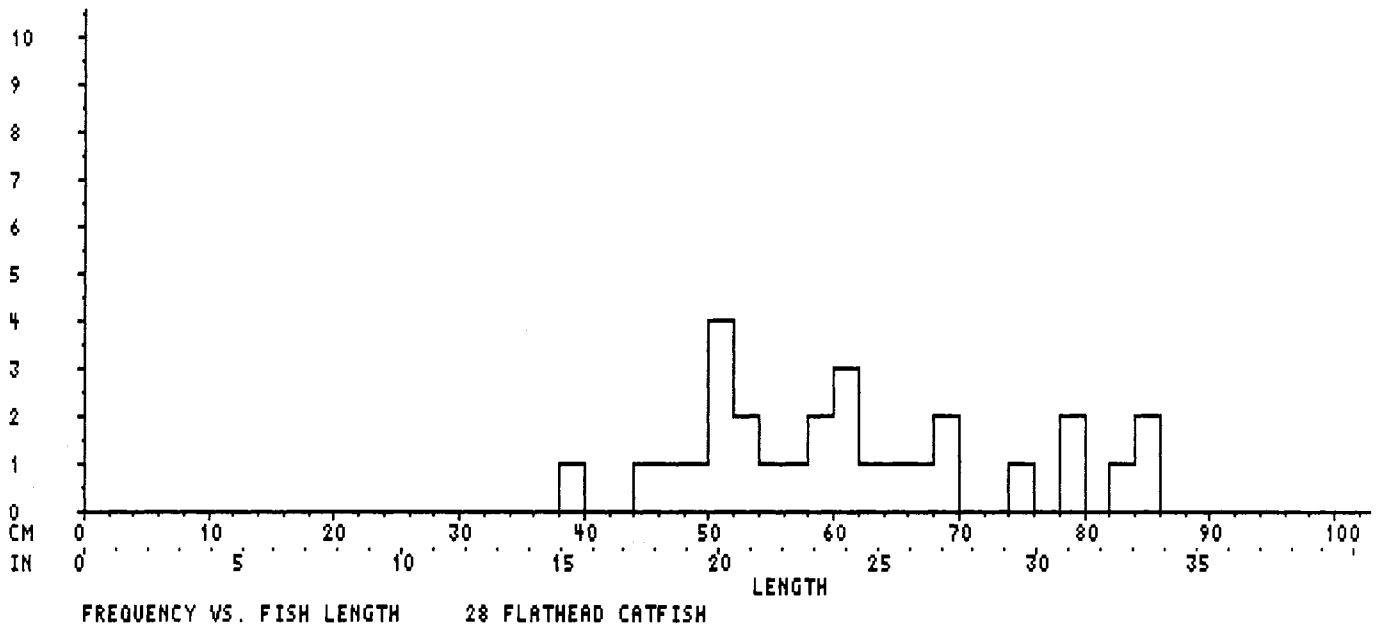


Figure 7. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of flathead catfish harvested by all anglers.

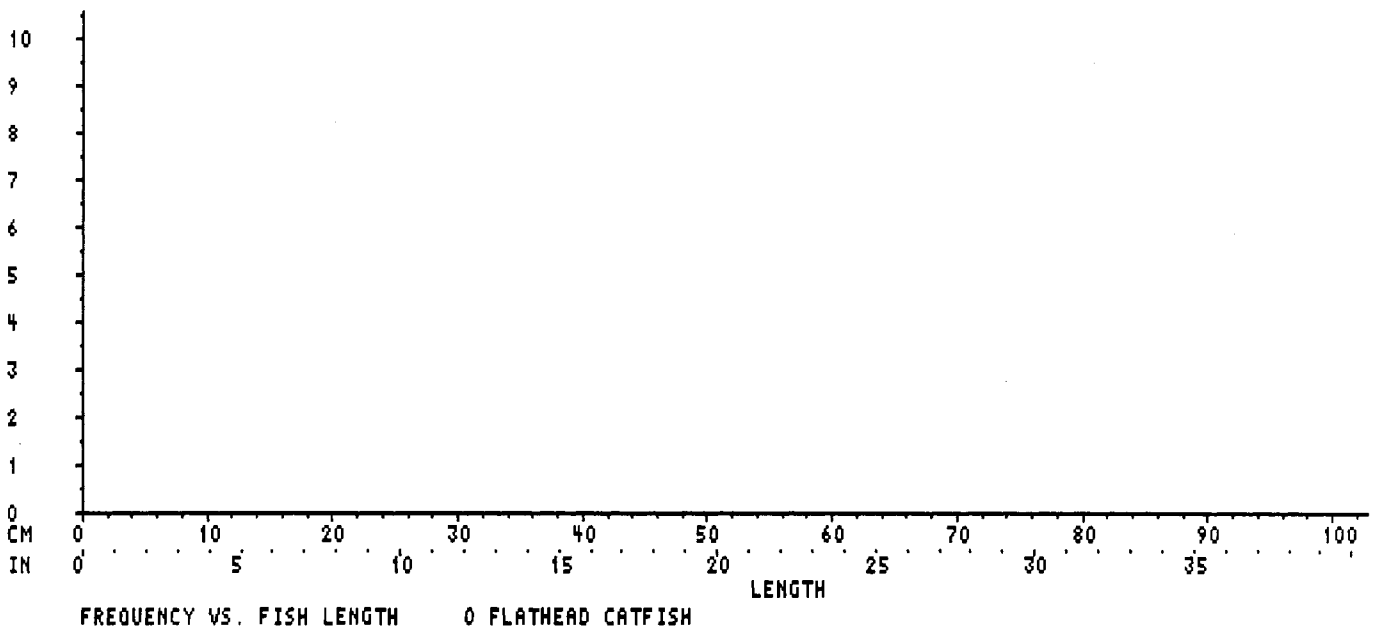


Figure 8. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of flathead catfish released by all anglers.

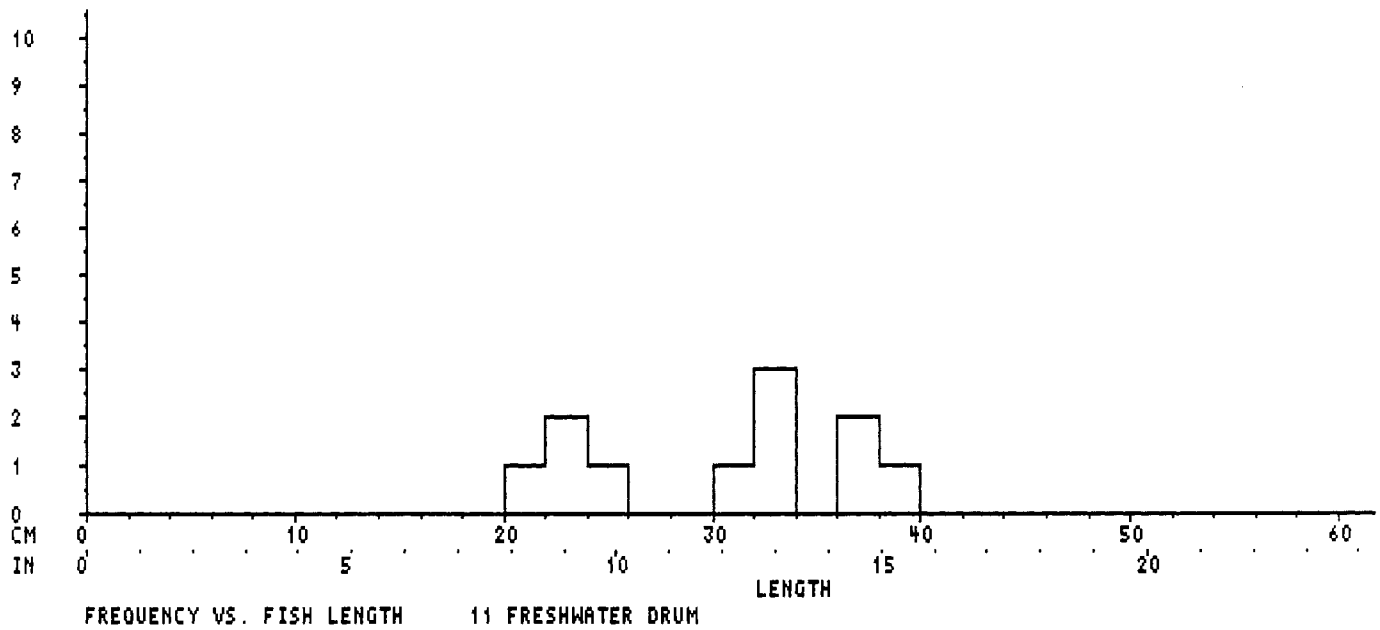


Figure 9. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum harvested by all anglers.

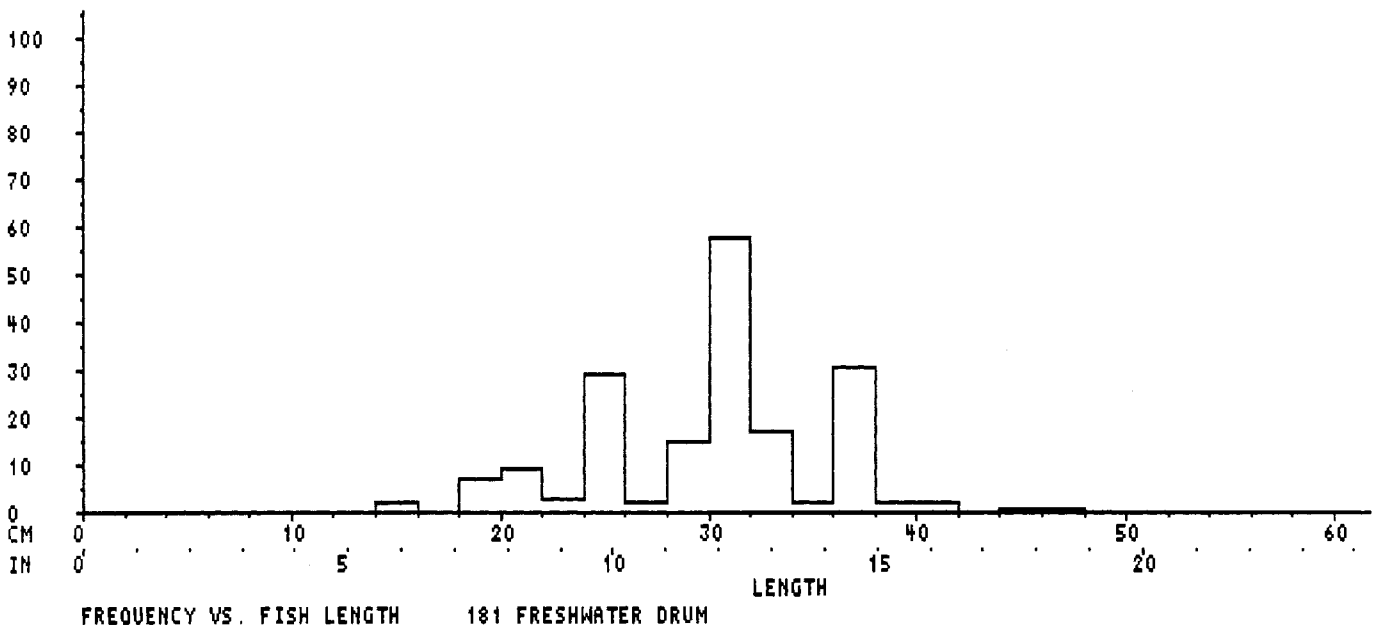


Figure 10. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum released by all anglers. Note the difference in scale from Figure 9.

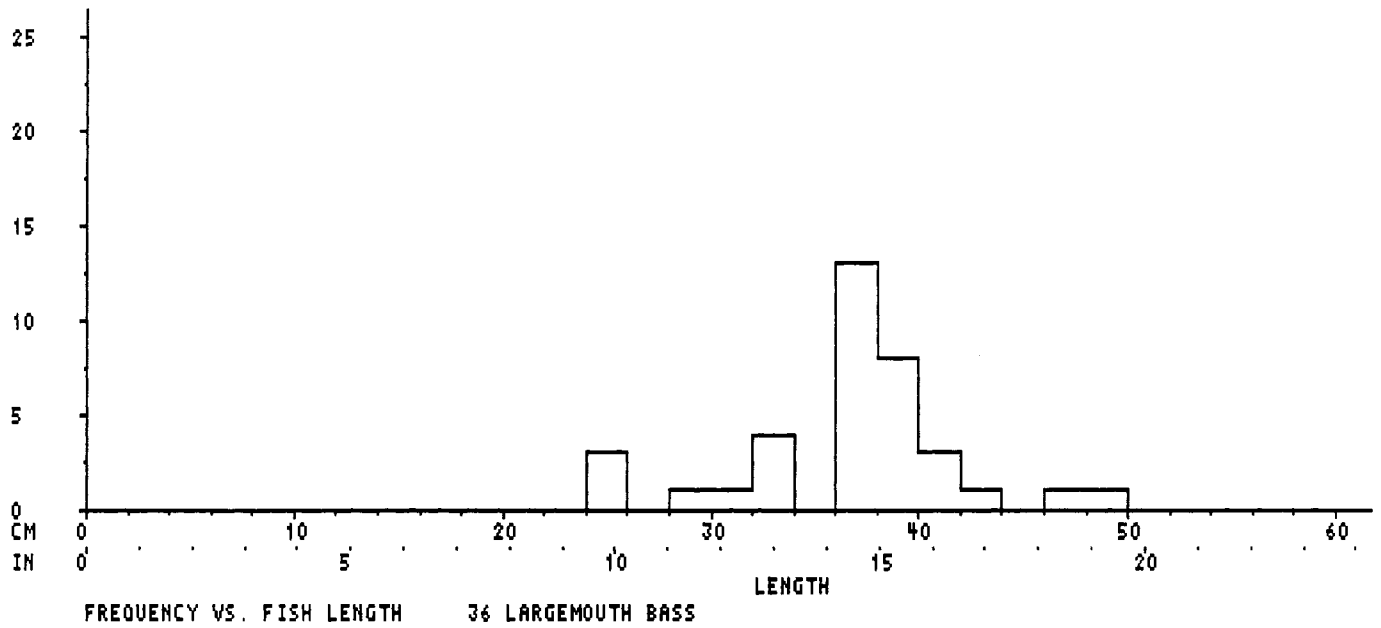


Figure 11. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

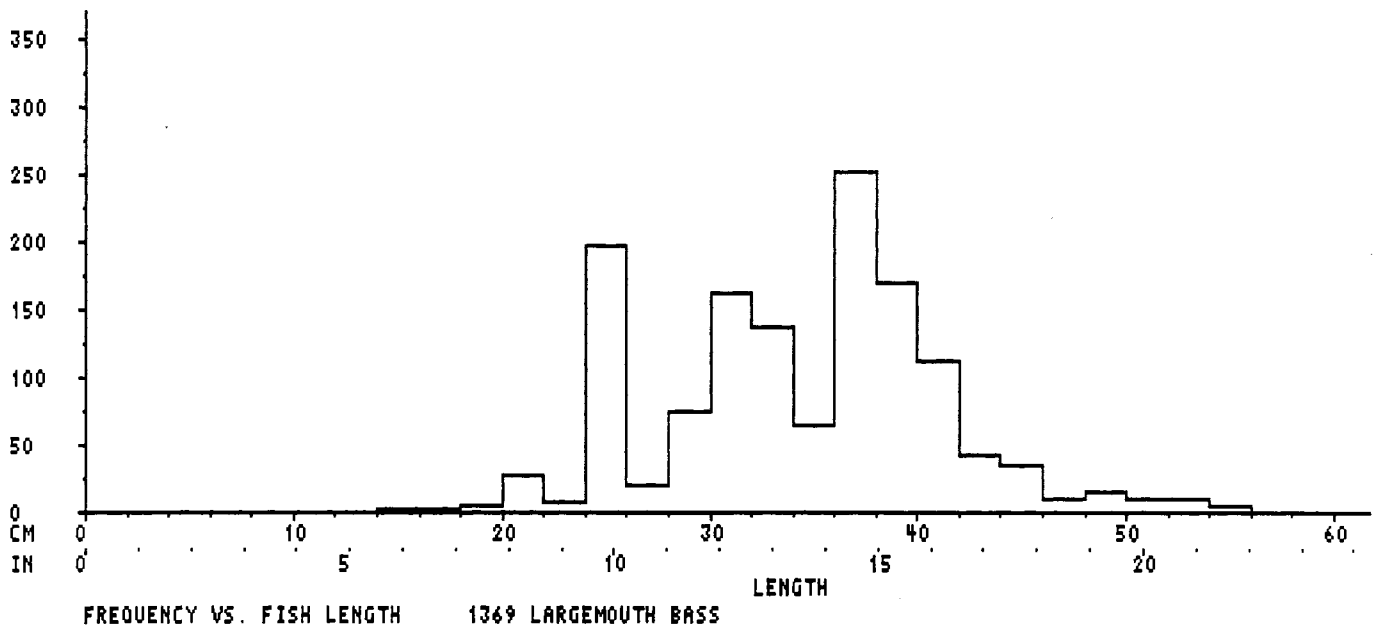


Figure 12. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 11.

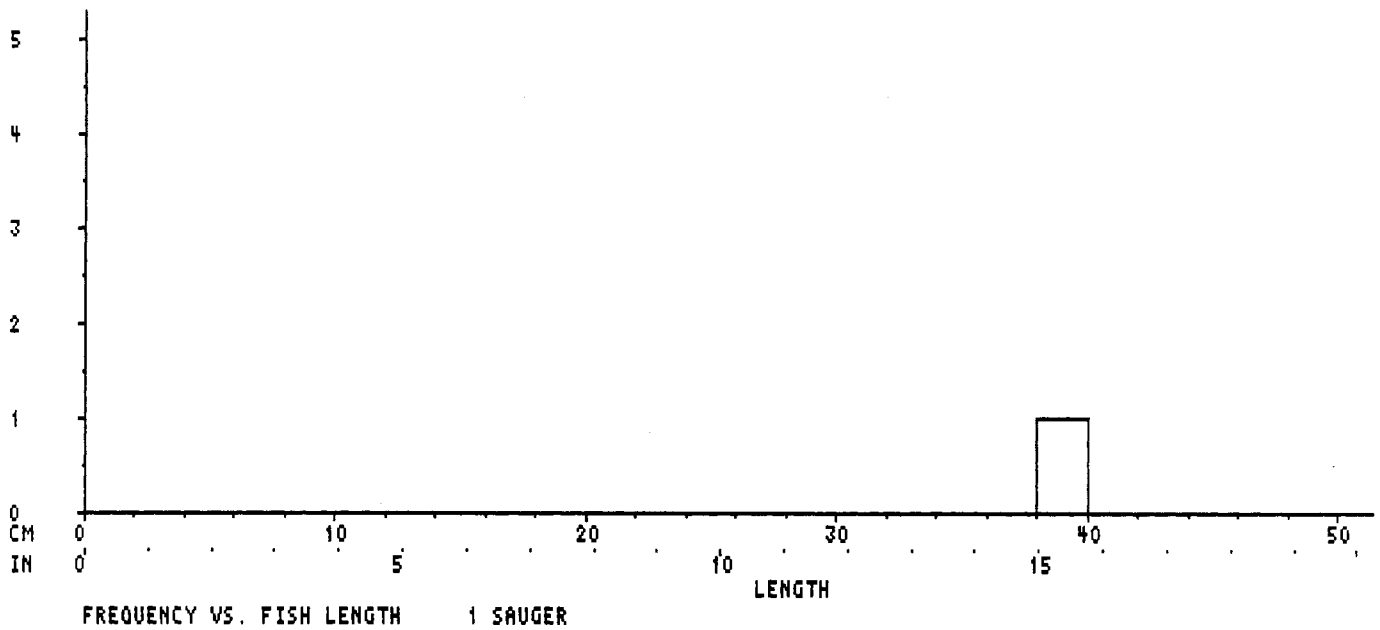


Figure 13. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of sauger harvested by all anglers.

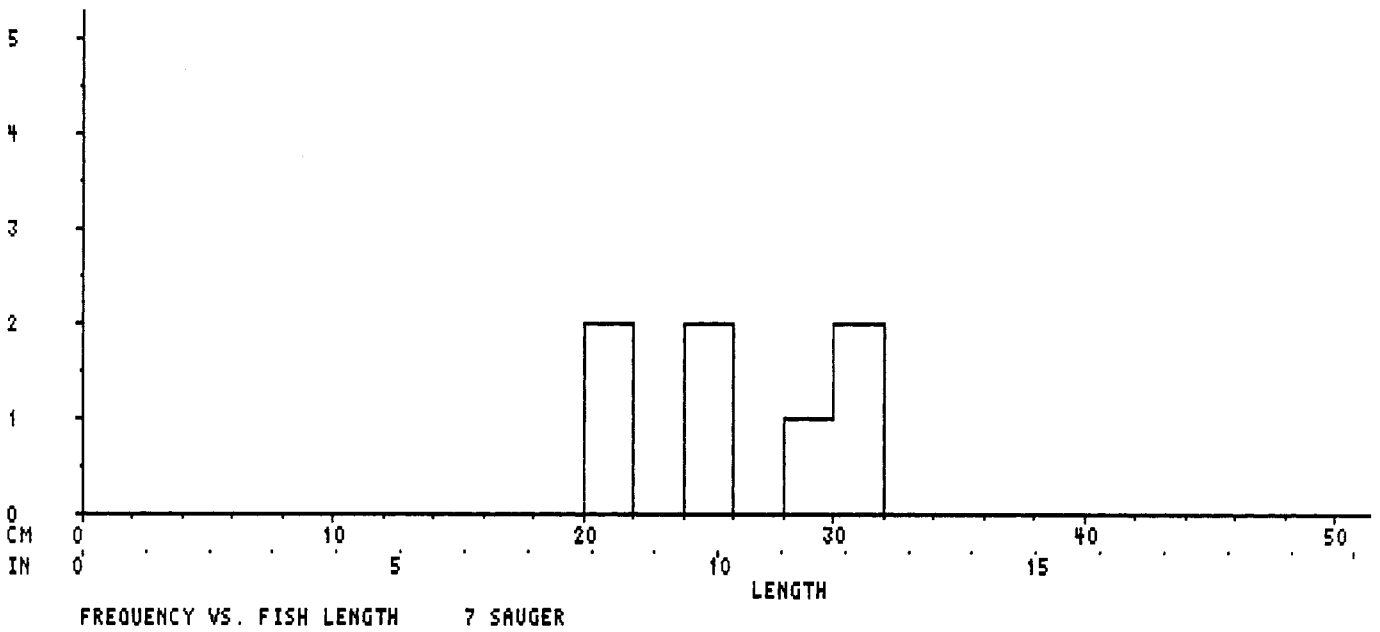


Figure 14. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of sauger released by all anglers.

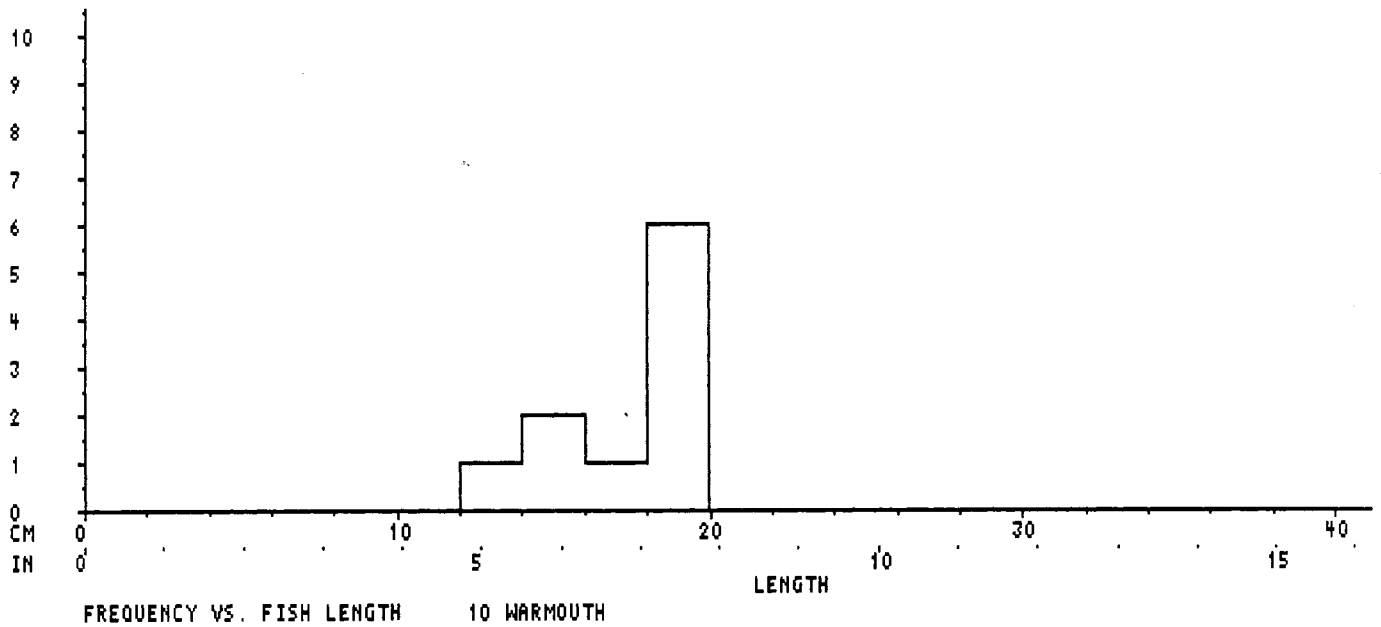


Figure 15. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth harvested by all anglers.

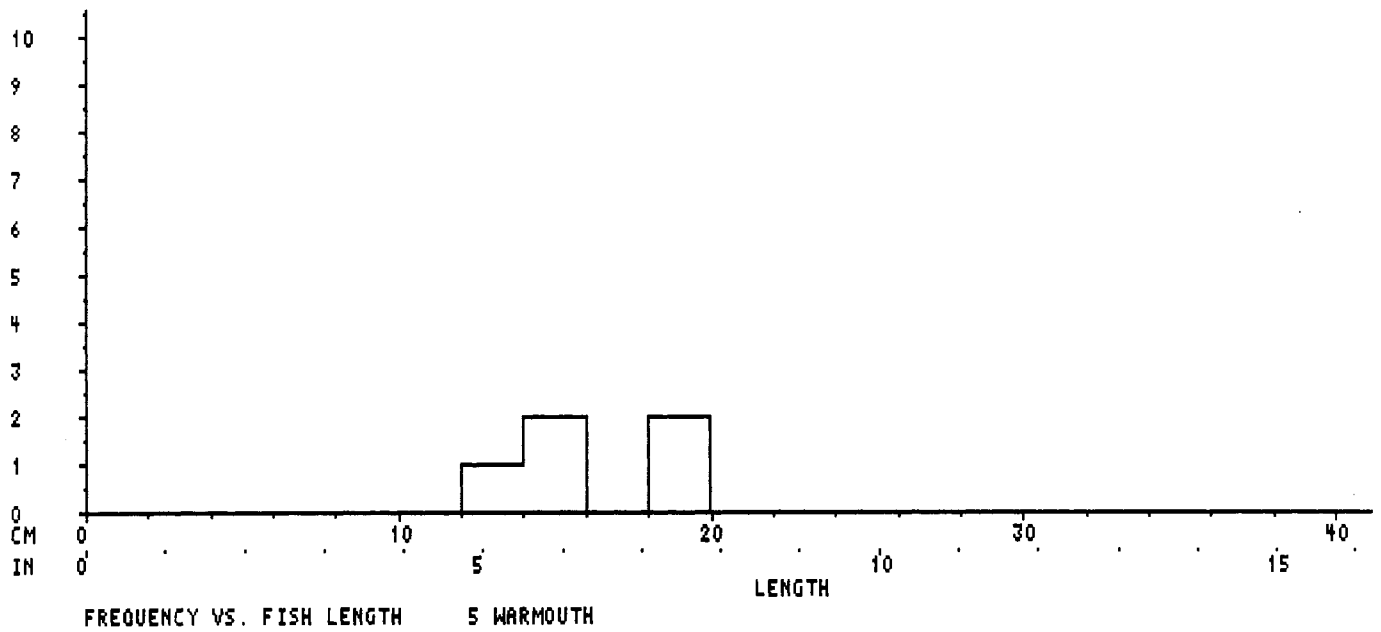


Figure 16. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth released by all anglers.

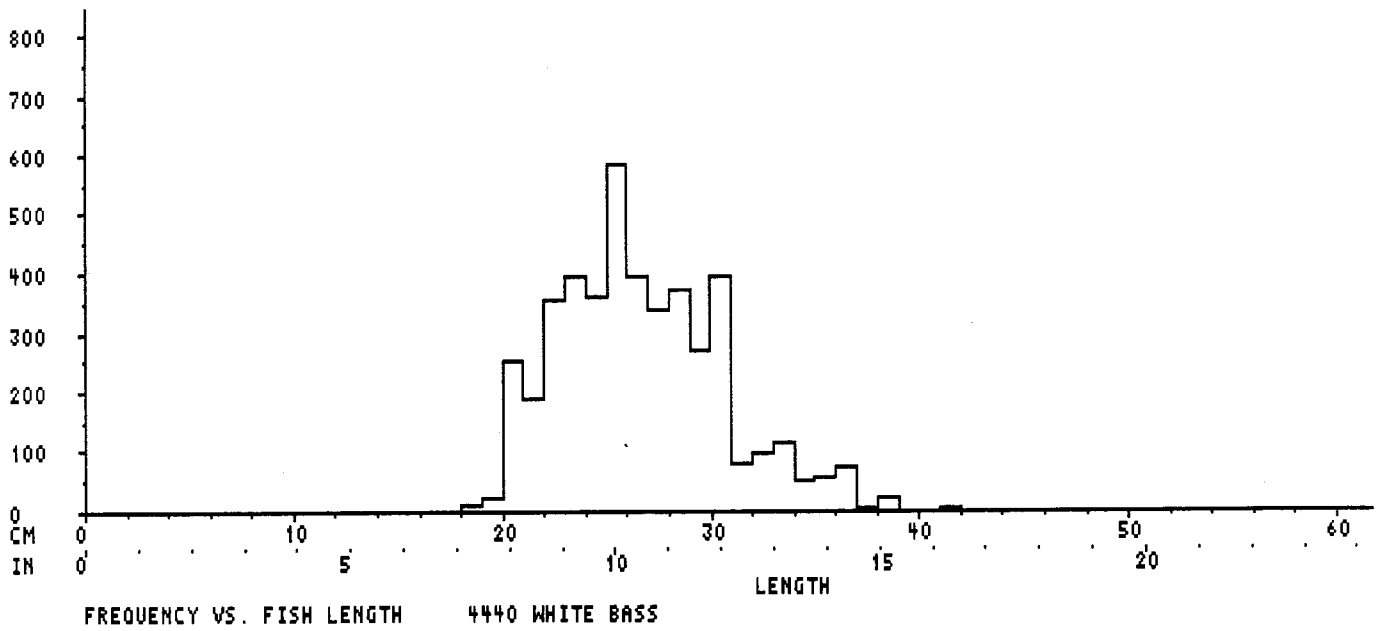


Figure 17. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass harvested by all anglers.

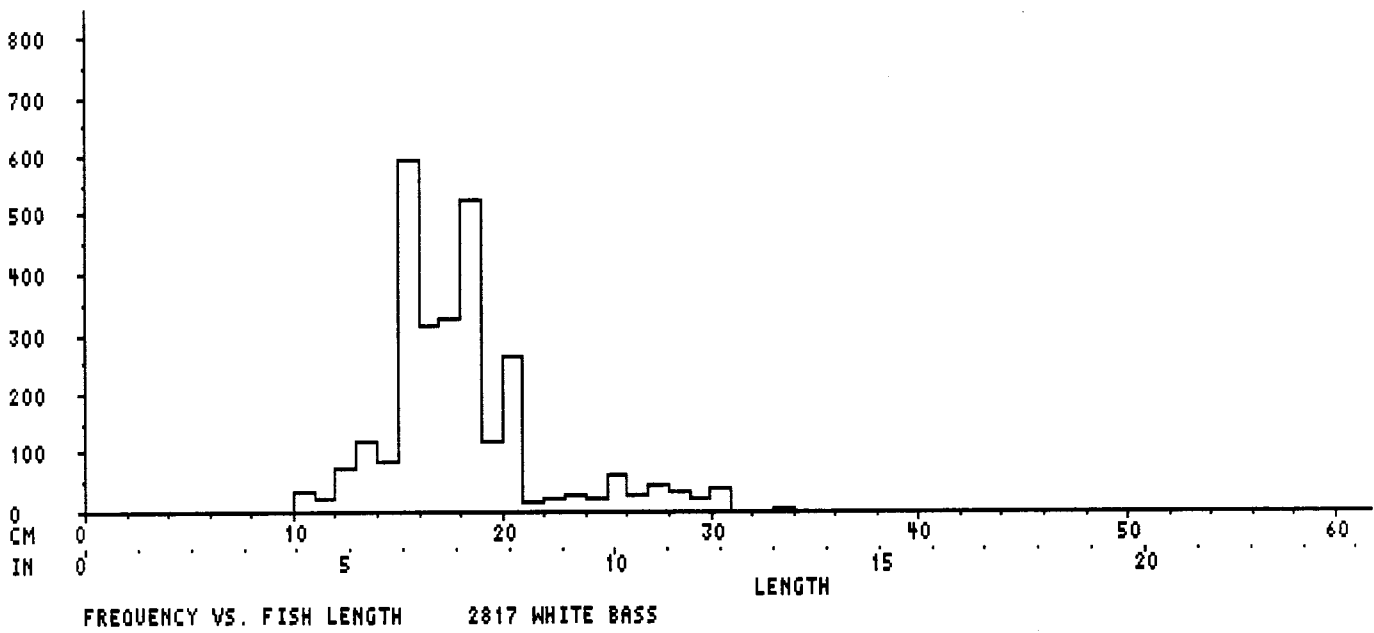


Figure 18. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass released by all anglers.

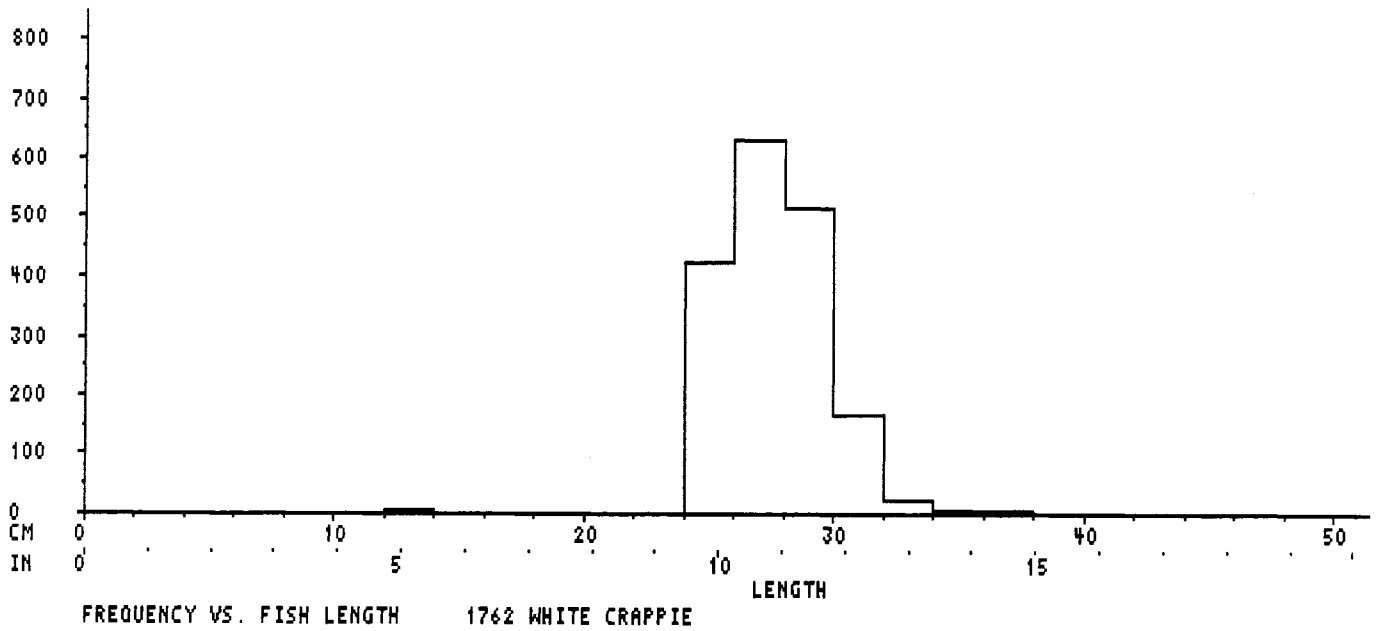


Figure 19. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

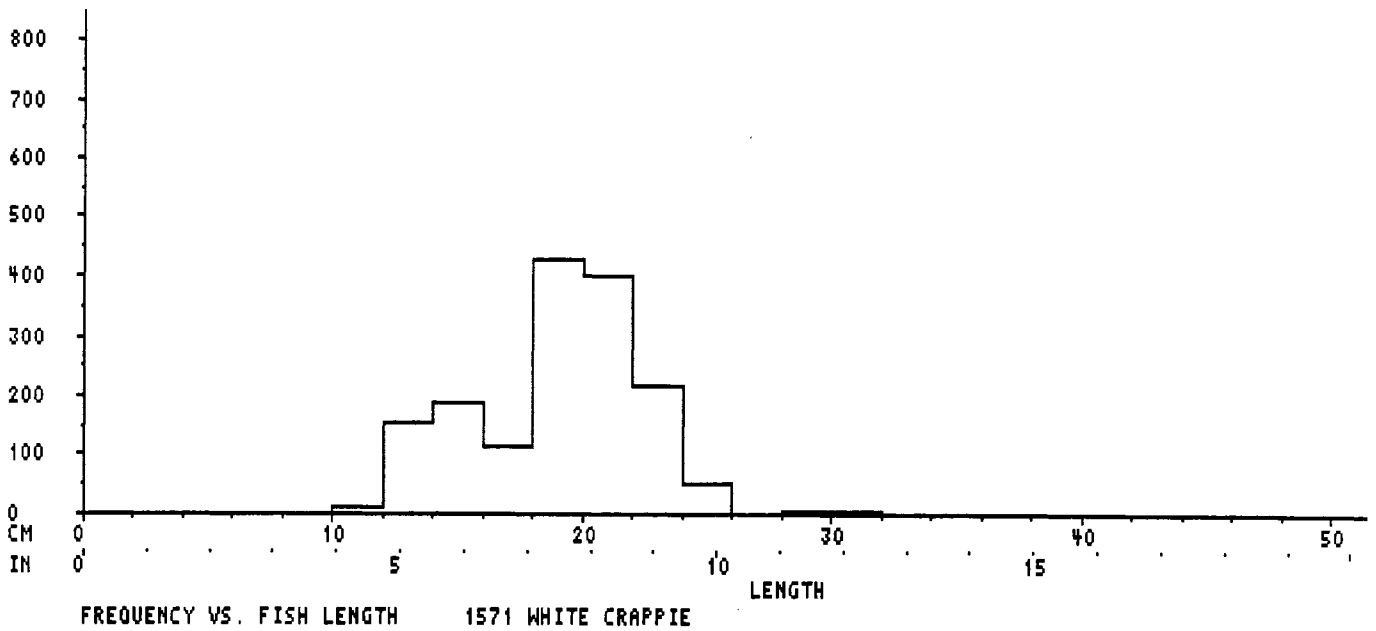


Figure 20. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers.

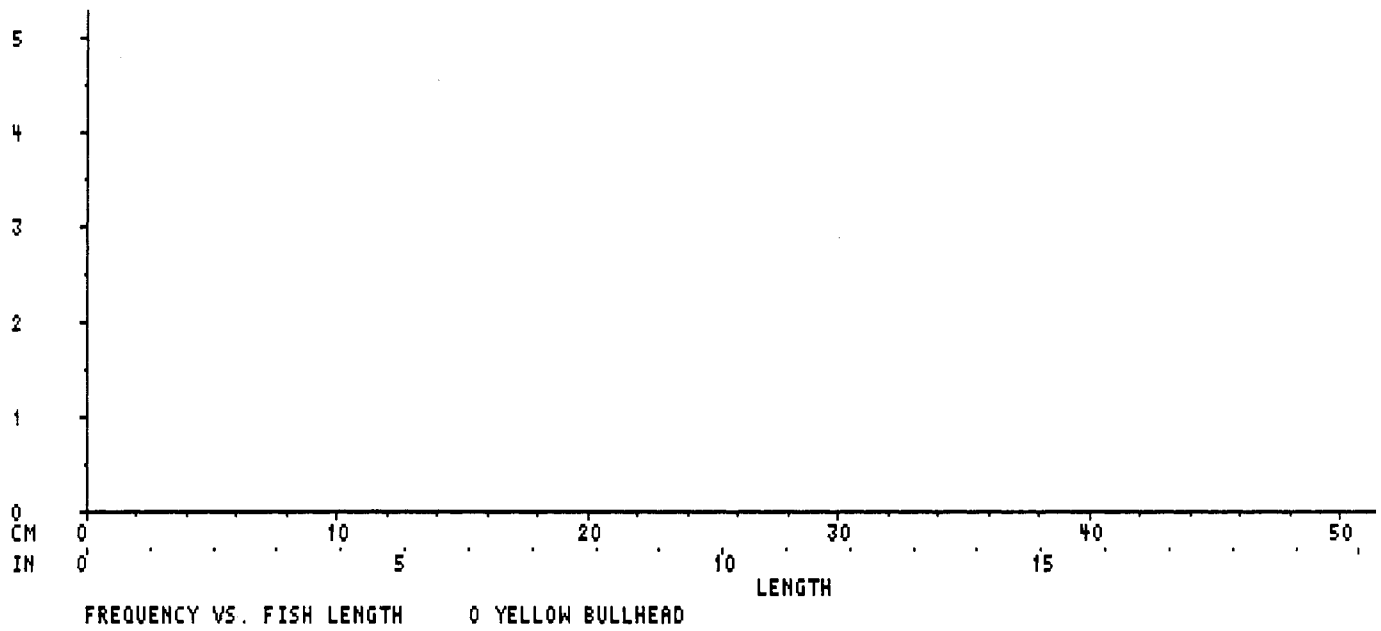


Figure 21. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead harvested by all anglers.

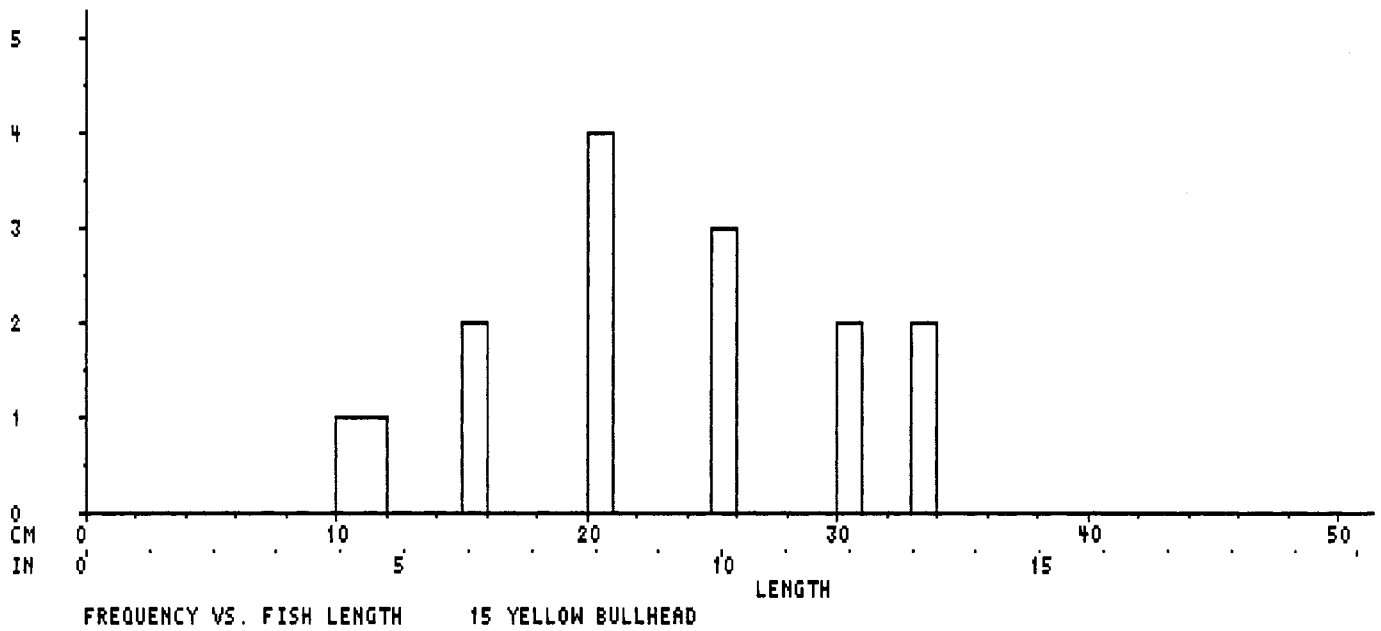


Figure 22. Carlyle Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead released by all anglers.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 CARLYLE LAKE TAILWATER
 24 ACRES

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 3880

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	4303	3536-5070 (18%)	181	149-213 (18%)	4%
	HOLIDAY	3454	2923-3985 (15%)	145	123-167 (15%)	4%
	TOTAL	7757	6824-8690 (12%)	326	287-365 (12%)	4%
SHORE	WEEKDAY	40034	37130-42938 (7%)	1682	1560-1804 (7%)	12%
	HOLIDAY	42969	39701-46238 (8%)	1805	1668-1943 (8%)	20%
	TOTAL	83003	78632-87375 (5%)	3488	3304-3671 (5%)	16%
BOAT & SHORE	WEEKDAY	44337	41334-47341 (7%)	1863	1737-1989 (7%)	11%
	HOLIDAY	46423	43112-49734 (7%)	1951	1811-2090 (7%)	18%
	TOTAL	90761	86290-95231 (5%)	3813	3626-4001 (5%)	15%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
47367	42028-52705 (11%)		.423	.362-.483 (14%)	4917.76	1990.19	All species
1265	851-1679 (33%)		.007	.004-.010 (45%)	131.35	53.15	Bigmouth buffalo
346	201-491 (42%)		.003	.002-.004 (46%)	35.93	14.54	Bighead carp
10	0-28 (179%)		.000	.000-.000 (199%)	1.04	0.42	Black buffalo
2	0-7 (257%)		.000	.000-.000 (278%)	0.22	0.09	Black bullhead
100	0-217 (116%)		.001	.000-.003 (154%)	10.42	4.22	Black crappie
2768	1680-3857 (39%)		.025	.000-.062 (143%)	287.42	116.32	Bluegill
2	0-7 (214%)		.000	.000-.001 (214%)	0.25	0.10	Bowfin
			****	NOT RECORDED ****			Unidentified buffalo
966	628-1305 (35%)		.005	.002-.008 (58%)	100.32	40.60	Carp
11021	8797-13245 (20%)		.091	.059-.124 (36%)	1144.22	463.06	Channel catfish
5	0-15 (208%)		.000	.000-.000 (208%)	0.52	0.21	Crappie spp.
559	333-784 (40%)		.005	.002-.007 (51%)	58.00	23.47	Flathead catfish
1594	1153-2035 (28%)		.008	.005-.010 (31%)	165.50	66.98	Freshwater drum
30	0-60 (101%)		.000	.000-.001 (133%)	3.08	1.25	Green sunfish
5	0-16 (223%)		.000	.000-.000 (220%)	0.52	0.21	Gizzard shad
82	0-199 (143%)		.000	.000-.001 (143%)	8.48	3.43	Largemouth bass
20	0-55 (167%)		.000	.000-.000 (191%)	2.13	0.86	Longear sunfish
24	0-73 (206%)		.000	.000-.000 (151%)	2.47	1.00	Orangespotted sun
54	0-118 (120%)		.000	.000-.001 (115%)	5.57	2.25	Paddlefish
4	0-12 (208%)		.000	.000-.000 (208%)	0.41	0.17	Pumpkinseed
			****	NOT RECORDED ****			Smallmouth buffalo
1472	954-1991 (35%)		.015	.009-.021 (42%)	152.87	61.86	Sauger
258	0-621 (141%)		.002	.000-.004 (87%)	26.74	10.82	Striped bass hybrid
59	0-119 (102%)		.001	.000-.002 (194%)	6.13	2.48	Shortnose gar
45	5-86 (90%)		.000	.000-.001 (102%)	4.69	1.90	Smallmouth bass
3	0-11 (245%)		.000	.000-.000 (257%)	0.34	0.14	Tiger muskie
748	242-1255 (68%)		.005	.000-.010 (92%)	77.71	31.45	Walleye
19813	15685-23941 (21%)		.184	.141-.227 (23%)	2057.06	832.48	White bass
6066	4102-8029 (32%)		.068	.039-.097 (43%)	629.76	254.86	White crappie
8	0-26 (207%)		.000	.000-.000 (207%)	0.86	0.35	Yellow bullhead
35	0-89 (158%)		.000	.000-.001 (163%)	3.59	1.45	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
26843	22709-30977	(15%)	.246	.169-.323 (31%)	2786.93	0.567	All species
3467	2097-4837	(40%)	.019	.011-.027 (43%)	359.95	2.740	Bigmouth buffalo
			**** NOT RECORDED ****				Bighead carp
65	0-205	(216%)	.001	.000-.002 (224%)	6.72	6.444	Black buffalo
1	0-5	(278%)	.000	.000-.000 (278%)	0.13	0.588	Black bullhead
38	0-92	(141%)	.000	.000-.001 (175%)	3.97	0.381	Black crappie
188	101-274	(46%)	.002	.000-.005 (177%)	19.49	0.068	Bluegill
0	0-1	(213%)	.000	.000-.000 (214%)	0.04	0.163	Bowfin
			**** NOT RECORDED ****				Unidentified buffalo
1245	756-1733	(39%)	.006	.003-.009 (50%)	129.24	1.288	Carp
2378	1953-2803	(18%)	.019	.012-.026 (39%)	246.89	0.216	Channel catfish
7	0-21	(207%)	.000	.000-.000 (207%)	0.72	1.397	Crappie spp.
1772	679-2865	(62%)	.012	.004-.020 (68%)	183.97	3.172	Flathead catfish
985	116-1854	(88%)	.005	.000-.013 (154%)	102.26	0.618	Freshwater drum
17	0-53	(216%)	.000	.000-.000 (193%)	1.73	0.564	Green sunfish
0	0-0	(220%)	.000	.000-.000 (220%)	0.01	0.012	Gizzard shad
126	0-300	(139%)	.001	.000-.002 (169%)	13.05	1.539	Largemouth bass
1	0-3	(152%)	.000	.000-.000 (168%)	0.12	0.059	Longear sunfish
4	0-14	(242%)	.000	.000-.000 (230%)	0.41	0.168	Orangespotted sun
767	0-1651	(115%)	.006	.000-.014 (119%)	79.58	14.297	Paddlefish
0	0-1	(208%)	.000	.000-.000 (208%)	0.02	0.055	Pumpkinseed
			**** NOT RECORDED ****				Smallmouth buffalo
9102	5854-12350	(36%)	.112	.044-.180 (61%)	945.01	6.182	Sauger
178	0-457	(158%)	.001	.000-.002 (89%)	18.43	0.689	Striped bass hybrid
17	0-34	(99%)	.000	.000-.000 (112%)	1.78	0.291	Shortnose gar
59	8-110	(86%)	.001	.000-.002 (113%)	6.14	1.311	Smallmouth bass
1	0-4	(257%)	.000	.000-.000 (257%)	0.13	0.373	Tiger muskie
371	174-567	(53%)	.003	.000-.005 (90%)	38.47	0.495	Walleye
4503	3524-5481	(22%)	.042	.031-.052 (25%)	467.49	0.227	White bass
1551	918-2183	(41%)	.016	.009-.024 (46%)	160.98	0.256	White crappie
1	0-2	(207%)	.000	.000-.000 (207%)	0.06	0.065	Yellow bullhead
1	0-3	(167%)	.000	.000-.000 (173%)	0.12	0.033	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
59179	50066-68292 (15%)	.543	.373-.712 (31%)	2486.49	1.249	All species
7643	4622-10664 (40%)	.041	.024-.059 (43%)	321.14	6.042	Bigmouth buffalo
			**** NOT RECORDED ****			Bighead carp
143	0-452 (216%)	.001	.000-.005 (224%)	6.00	14.208	Black buffalo
3	0-10 (257%)	.000	.000-.000 (257%)	0.11	1.297	Black bullhead
84	0-203 (141%)	.001	.000-.003 (175%)	3.54	0.840	Black crappie
414	223-604 (46%)	.004	.000-.011 (177%)	17.38	0.149	Bluegill
1	0-3 (213%)	.000	.000-.000 (214%)	0.04	0.360	Bowfin
			**** NOT RECORDED ****			Unidentified buffalo
2744	1667-3821 (39%)	.014	.007-.021 (50%)	115.31	2.840	Carp
5243	4305-6180 (18%)	.042	.026-.058 (39%)	220.27	0.476	Channel catfish
15	0-47 (207%)	.000	.000-.000 (207%)	0.64	3.079	Crappie spp.
3907	1498-6316 (62%)	.027	.008-.045 (68%)	164.14	6.993	Flathead catfish
2171	256-4087 (88%)	.012	.000-.029 (154%)	91.23	1.362	Freshwater drum
37	0-116 (216%)	.000	.000-.001 (193%)	1.55	1.243	Green sunfish
0	0-0 (220%)	.000	.000-.000 (223%)	0.01	0.026	Gizzard shad
277	0-662 (139%)	.002	.000-.004 (169%)	11.64	3.392	Largemouth bass
3	0-7 (152%)	.000	.000-.000 (168%)	0.11	0.129	Longear sunfish
9	0-30 (242%)	.000	.000-.000 (230%)	0.37	0.370	Orangespotted sun
1690	0-3639 (115%)	.014	.000-.031 (119%)	71.01	31.520	Paddlefish
0	0-1 (207%)	.000	.000-.000 (208%)	0.02	0.122	Pumpkinseed
			**** NOT RECORDED ****			Smallmouth buffalo
20067	12907-27227 (36%)	.247	.097-.397 (61%)	843.14	13.629	Sauger
391	0-1008 (158%)	.003	.000-.005 (89%)	16.45	1.520	Striped bass hybrid
38	0-75 (99%)	.000	.000-.000 (112%)	1.59	0.642	Shortnose gar
130	18-242 (86%)	.002	.000-.003 (113%)	5.48	2.890	Smallmouth bass
3	0-9 (245%)	.000	.000-.000 (245%)	0.11	0.822	Tiger muskie
817	383-1251 (53%)	.006	.001-.011 (90%)	34.32	1.091	Walleye
9927	7770-12084 (22%)	.092	.069-.115 (25%)	417.09	0.501	White bass
3418	2025-4812 (41%)	.036	.019-.052 (46%)	143.63	0.564	White crappie
1	0-4 (208%)	.000	.000-.000 (208%)	0.05	0.143	Yellow bullhead
2	0-7 (167%)	.000	.000-.000 (173%)	0.10	0.072	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
131933	119726-144140 (9%)	1.185	1.005-1.365 (15%)	13697.755	543.40	All species
2459	1333-3584 (46%)	.013	.007-.019 (45%)	255.27	103.31	Bigmouth buffalo
572	346-799 (40%)	.006	.003-.009 (46%)	59.43	24.05	Bighead carp
86	0-201 (134%)	.000	.000-.001 (123%)	8.93	3.62	Black buffalo
2	0-7 (257%)	.000	.000-.000 (278%)	0.22	0.09	Black bullhead
152	15-289 (90%)	.002	.000-.003 (110%)	15.82	6.40	Black crappie
20856	16913-24800 (19%)	.153	.091-.214 (40%)	2165.37	876.31	Bluegill
2	0-7 (214%)	.000	.000-.001 (214%)	0.25	0.10	Bowfin
12	0-31 (154%)	.000	.000-.000 (148%)	1.28	0.52	Unidentified buffalo
2575	2005-3144 (22%)	.018	.013-.024 (31%)	267.31	108.18	Carp
26128	21437-30818 (18%)	.224	.068-.381 (70%)	2712.67	1097.80	Channel catfish
5	0-15 (208%)	.000	.000-.000 (208%)	0.52	0.21	Crappie spp.
589	352-827 (40%)	.005	.002-.007 (50%)	61.19	24.76	Flathead catfish
8579	6836-10321 (20%)	.050	.040-.059 (20%)	890.66	360.45	Freshwater drum
39	6-72 (84%)	.000	.000-.001 (125%)	4.08	1.65	Green sunfish
4003	0-9185 (129%)	.049	.000-.130 (166%)	415.62	168.20	Gizzard shad
355	169-540 (52%)	.002	.000-.004 (85%)	36.83	14.91	Largemouth bass
20	0-55 (167%)	.000	.000-.000 (191%)	2.13	0.86	Longear sunfish
32	0-99 (215%)	.000	.000-.000 (153%)	3.28	1.33	Orangespotted sun
54	0-118 (120%)	.000	.000-.001 (115%)	5.57	2.25	Paddlefish
4	0-12 (208%)	.000	.000-.000 (208%)	0.41	0.17	Pumpkinseed
190	0-673 (254%)	.001	.000-.003 (251%)	19.71	7.98	Smallmouth buffalo
3184	2097-4271 (34%)	.038	.018-.057 (52%)	330.56	133.77	Sauger
266	0-631 (137%)	.002	.000-.004 (85%)	27.63	11.18	Striped bass hybrid
1613	1217-2009 (25%)	.012	.007-.017 (43%)	167.48	67.78	Shortnose gar
289	116-461 (60%)	.003	.001-.006 (82%)	29.96	12.12	Smallmouth bass
14	0-35 (156%)	.000	.000-.000 (166%)	1.43	0.58	Tiger muskie
1350	525-2176 (61%)	.010	.003-.017 (68%)	140.20	56.74	Walleye
42577	34829-50325 (18%)	.408	.298-.518 (27%)	4420.49	1788.95	White bass
15832	12197-19468 (23%)	.185	.116-.254 (37%)	1643.77	665.23	White crappie
51	0-114 (124%)	.001	.000-.003 (131%)	5.27	2.13	Yellow bullhead
35	0-89 (158%)	.000	.000-.001 (163%)	3.59	1.45	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
41759	35018-48501 (16%)	.378	.290-.465 (23%)	4335.59	0.317	All species
6704	0-13794 (106%)	.035	.004-.066 (89%)	696.00	2.727	Bigmouth buffalo
		****	NOT RECORDED ****			Bighead carp
224	0-608 (171%)	.001	.000-.003 (137%)	23.26	2.603	Black buffalo
1	0-5 (278%)	.000	.000-.000 (278%)	0.13	0.588	Black bullhead
42	0-96 (127%)	.000	.000-.001 (163%)	4.40	0.278	Black crappie
520	401-639 (23%)	.004	.000-.007 (89%)	53.98	0.025	Bluegill
0	0-1 (213%)	.000	.000-.000 (214%)	0.04	0.163	Bowfin
		****	NOT RECORDED ****			Unidentified buffalo
2656	1915-3397 (28%)	.018	.012-.023 (33%)	275.76	1.032	Carp
2861	2396-3327 (16%)	.025	.016-.034 (34%)	297.07	0.110	Channel catfish
7	0-21 (207%)	.000	.000-.000 (207%)	0.72	1.397	Crappie spp.
1779	687-2872 (61%)	.012	.004-.020 (68%)	184.75	3.019	Flathead catfish
2427	1610-3243 (34%)	.015	.009-.022 (40%)	251.94	0.283	Freshwater drum
17	0-53 (214%)	.000	.000-.000 (193%)	1.75	0.428	Green sunfish
47	0-120 (152%)	.001	.000-.002 (182%)	4.93	0.012	Gizzard shad
189	7-370 (96%)	.001	.000-.002 (114%)	19.59	0.532	Largemouth bass
1	0-3 (152%)	.000	.000-.000 (168%)	0.12	0.059	Longear sunfish
4	0-14 (242%)	.000	.000-.000 (230%)	0.43	0.131	Orangespotted sun
767	0-1651 (115%)	.006	.000-.014 (119%)	79.58	14.297	Paddlefish
0	0-1 (208%)	.000	.000-.000 (208%)	0.02	0.055	Pumpkinseed
4	0-14 (252%)	.000	.000-.000 (246%)	0.41	0.021	Smallmouth buffalo
13604	9299-17910 (32%)	.157	.086-.228 (45%)	1412.46	4.273	Sauger
180	0-460 (156%)	.001	.000-.002 (88%)	18.66	0.675	Striped bass hybrid
1003	651-1354 (35%)	.015	.000-.034 (129%)	104.10	0.622	Shortnose gar
373	0-831 (123%)	.005	.000-.015 (199%)	38.74	1.293	Smallmouth bass
3	0-8 (156%)	.000	.000-.000 (160%)	0.31	0.217	Tiger muskie
502	231-774 (54%)	.004	.001-.007 (73%)	52.16	0.372	Walleye
5764	4580-6948 (21%)	.055	.041-.068 (25%)	598.42	0.135	White bass
2076	1386-2765 (33%)	.022	.013-.031 (40%)	215.50	0.131	White crappie
2	0-5 (118%)	.000	.000-.000 (132%)	0.23	0.045	Yellow bullhead
1	0-3 (167%)	.000	.000-.000 (173%)	0.12	0.033	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
92063	77201-106926 (16%)	.833	.640-1.026 (23%)	3868.21	0.698	All species
14779	0-30411 (106%)	.077	.008-.145 (89%)	620.97	6.011	Bigmouth buffalo
			**** NOT RECORDED ****			Bighead carp
494	0-1340 (171%)	.003	.000-.008 (137%)	20.75	5.740	Black buffalo
3	0-10 (257%)	.000	.000-.000 (257%)	0.11	1.297	Black bullhead
93	0-213 (127%)	.001	.000-.003 (163%)	3.93	0.613	Black crappie
1146	883-1409 (23%)	.008	.001+.016 (89%)	48.16	0.055	Bluegill
1	0-3 (213%)	.000	.000-.000 (214%)	0.04	0.360	Bowfin
			**** NOT RECORDED ****			Unidentified buffalo
5856	4223-7488 (28%)	.039	.026-.052 (33%)	246.03	2.274	Carp
6308	5282-7334 (16%)	.055	.036-.075 (34%)	265.05	0.241	Channel catfish
15	0-47 (207%)	.000	.000-.000 (207%)	0.64	3.079	Crappie spp.
3923	1514-6333 (61%)	.027	.009-.045 (68%)	164.84	6.657	Flathead catfish
5350	3550-7149 (34%)	.034	.020-.048 (40%)	224.78	0.624	Freshwater drum
37	0-116 (214%)	.000	.000-.001 (193%)	1.56	0.944	Green sunfish
105	0-264 (152%)	.001	.000-.004 (182%)	4.40	0.026	Gizzard shad
416	16-816 (96%)	.003	.000-.005 (114%)	17.48	1.173	Largemouth bass
3	0-7 (152%)	.000	.000-.000 (168%)	0.11	0.129	Longear sunfish
9	0-31 (242%)	.000	.000-.000 (230%)	0.38	0.288	Orangespotted sun
1690	0-3639 (115%)	.014	.000-.031 (119%)	71.01	31.520	Paddlefish
0	0-1 (207%)	.000	.000-.000 (208%)	0.02	0.122	Pumpkinseed
9	0-31 (252%)	.000	.000-.000 (246%)	0.36	0.046	Smallmouth buffalo
29993	20501-39485 (32%)	.346	.191-.502 (45%)	1260.20	9.420	Sauger
396	0-1014 (156%)	.003	.000-.005 (88%)	16.65	1.489	Striped bass hybrid
2210	1435-2985 (35%)	.032	.000-.074 (129%)	92.87	1.370	Shortnose gar
823	0-1833 (123%)	.011	.000-.033 (199%)	34.56	2.851	Smallmouth bass
7	0-17 (156%)	.000	.000-.000 (160%)	0.28	0.477	Tiger muskie
1108	510-1706 (54%)	.008	.002-.015 (73%)	46.54	0.820	Walleye
12707	10097-15317 (21%)	.120	.091-.150 (25%)	533.91	0.298	White bass
4576	3055-6096 (33%)	.049	.029-.068 (40%)	192.26	0.289	White crappie
5	0-11 (118%)	.000	.000-.000 (132%)	0.21	0.098	Yellow bullhead
2	0-7 (167%)	.000	.000-.000 (173%)	0.10	0.072	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	4.6	3.9-5.4 (16%)	1.5	8.9	26
SHORE	2.8	2.6-3.0 (7%)	0.3	11.4	359
BOAT & SHORE	2.9	2.7-3.1 (7%)	0.3	11.4	385
MILES TRAVELED	44.5	41.9-47.1 (6%)	1	1800	2791
SUCCESS RATING (1-10)	3.4	3.3-3.5 (3%)	1	10	2766

*166 samples were from split interviews of completed trips.

10.4% of all 3708 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 27 out of 3708 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	16	20	8	2						
SHORE INTERVIEWS	1553	1343	473	197	58	13	12	6	2	5

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

1375 (37.1%)	ANY	All species
8 (0.2%)	BGB	Bigmouth buffalo
1 (0.0%)	BHC	Bighead carp
57 (1.5%)	BLG	Bluegill
2 (0.1%)	BSS	Black bass spp.
4 (0.1%)	BUF	Unidentified buffalo
67 (1.8%)	CAP	Carp
868 (23.4%)	CCF	Channel catfish
6 (0.2%)	CRP	Crappie spp.
17 (0.5%)	FCF	Flathead catfish
5 (0.1%)	FRD	Freshwater drum
1 (0.0%)	LMB	Largemouth bass
145 (3.9%)	SAR	Sauger
3 (0.1%)	SBH	Striped bass x White bass hybrid (Wiper)
104 (2.8%)	WAE	Walleye
776 (20.9%)	WHB	White bass
257 (6.9%)	WHC	White crappie

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bigmouth buffalo																
HARVEST	664	6	6	1	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	669	6	-	2	-	1	-	-	-	-	-	-	-	-	-	-
Bighead carp																
HARVEST	665	11	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	674	3	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Black buffalo																
HARVEST	677	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	674	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	673	4	-	-	-	1	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	670	-	-	3	5	-	-	-	-	-	-	-	-	-	-	-
RELEASE	591	39	13	8	13	4	2	-	7	-	-	-	-	-	-	1
Bowfin																
HARVEST	676	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unidentified buffalo																
HARVEST	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	675	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	661	12	2	-	3	-	-	-	-	-	-	-	-	-	-	-
RELEASE	632	31	14	-	-	-	-	1	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	610	42	8	5	1	2	-	4	-	-	1	1	-	-	-	4
RELEASE	573	57	16	11	3	3	-	-	1	-	8	-	2	1	1	2
Flathead catfish																
HARVEST	668	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	677	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	653	14	8	3	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	586	48	18	14	5	-	-	-	2	-	4	-	-	-	-	1
Green sunfish																
HARVEST	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	676	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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+
Gizzard shad																
HARVEST	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	673	-	2	-	-	1	-	-	-	-	1	-	-	-	-	1
Largemouth bass																
HARVEST	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	665	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sauger																
HARVEST	649	19	1	4	-	-	3	-	-	2	-	-	-	-	-	-
RELEASE	657	9	4	2	2	1	-	-	-	-	-	-	-	-	-	3
Striped bass x White bass hybrid (Wiper)																
HARVEST	676	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	676	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Shortnose gar																
HARVEST	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	652	20	2	1	1	-	1	-	1	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	675	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	671	6	-	-	-	-	-	-	-	-	1	-	-	-	-	-
Walleye																
HARVEST	669	3	3	-	-	3	-	-	-	-	-	-	-	-	-	-
RELEASE	651	11	11	3	2	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	554	40	20	12	3	8	5	1	3	2	6	2	3	-	1	18
RELEASE	523	48	28	16	8	11	1	12	1	3	9	-	3	1	-	14
White crappie																
HARVEST	652	8	4	3	3	5	2	-	-	-	-	-	-	-	-	1
RELEASE	583	47	12	10	2	10	6	-	-	-	2	-	-	-	2	4
Yellow bullhead																
HARVEST	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	674	1	-	3	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	676	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	678	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

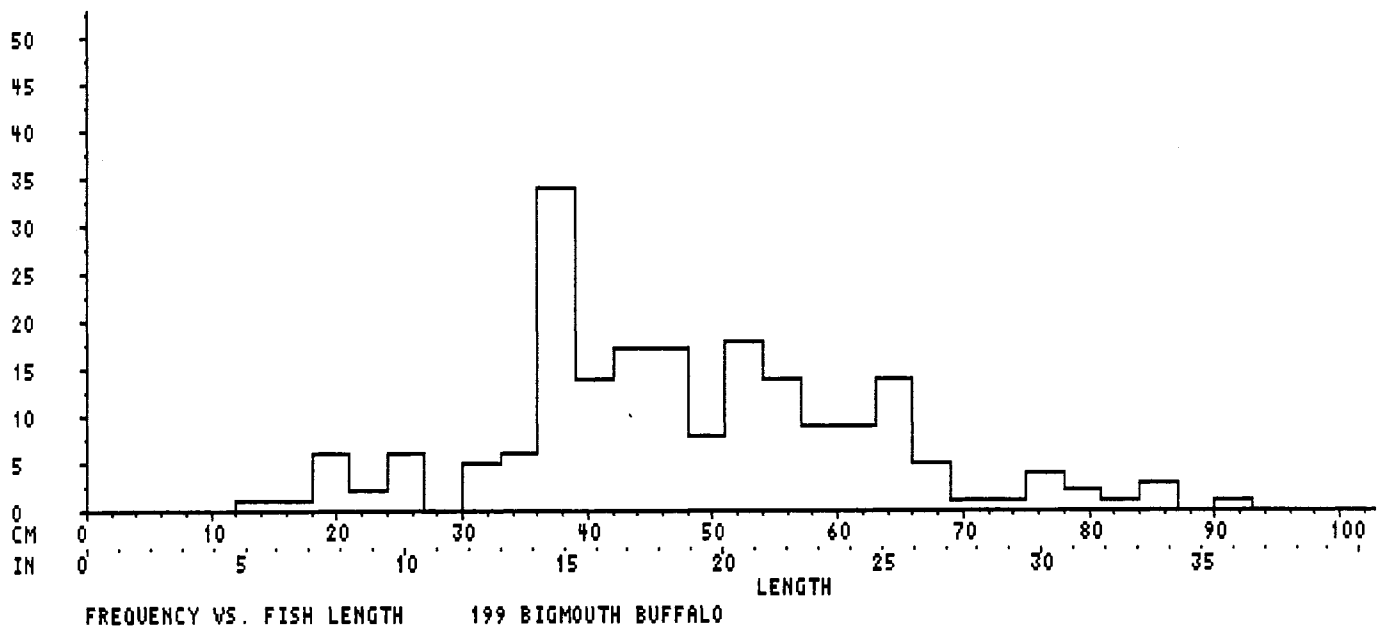


Figure 1. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bigmouth buffalo harvested by all anglers.

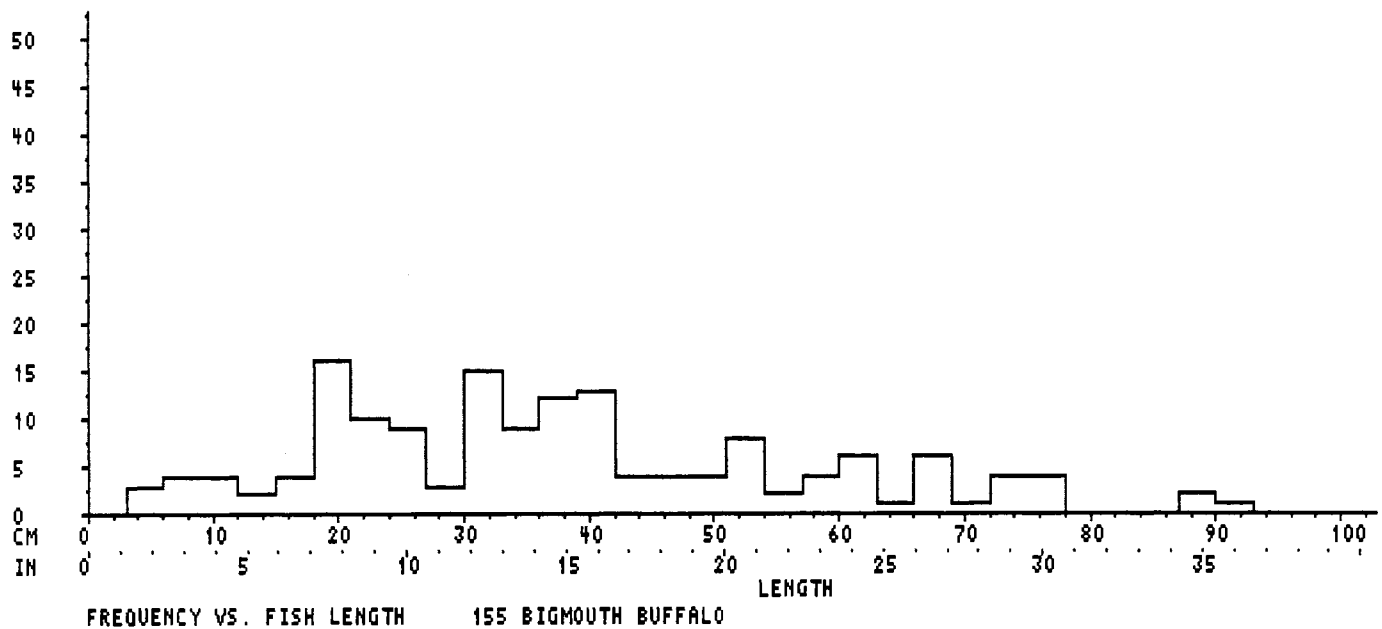


Figure 2. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bigmouth buffalo released by all anglers.

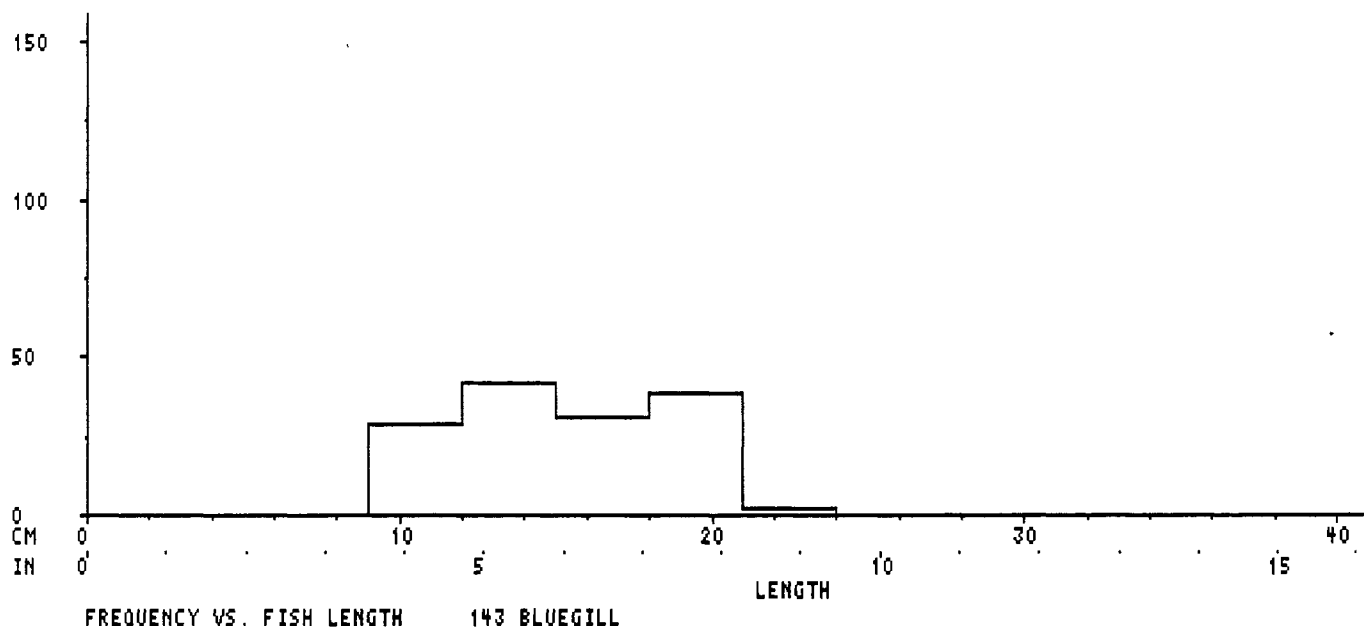


Figure 3. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

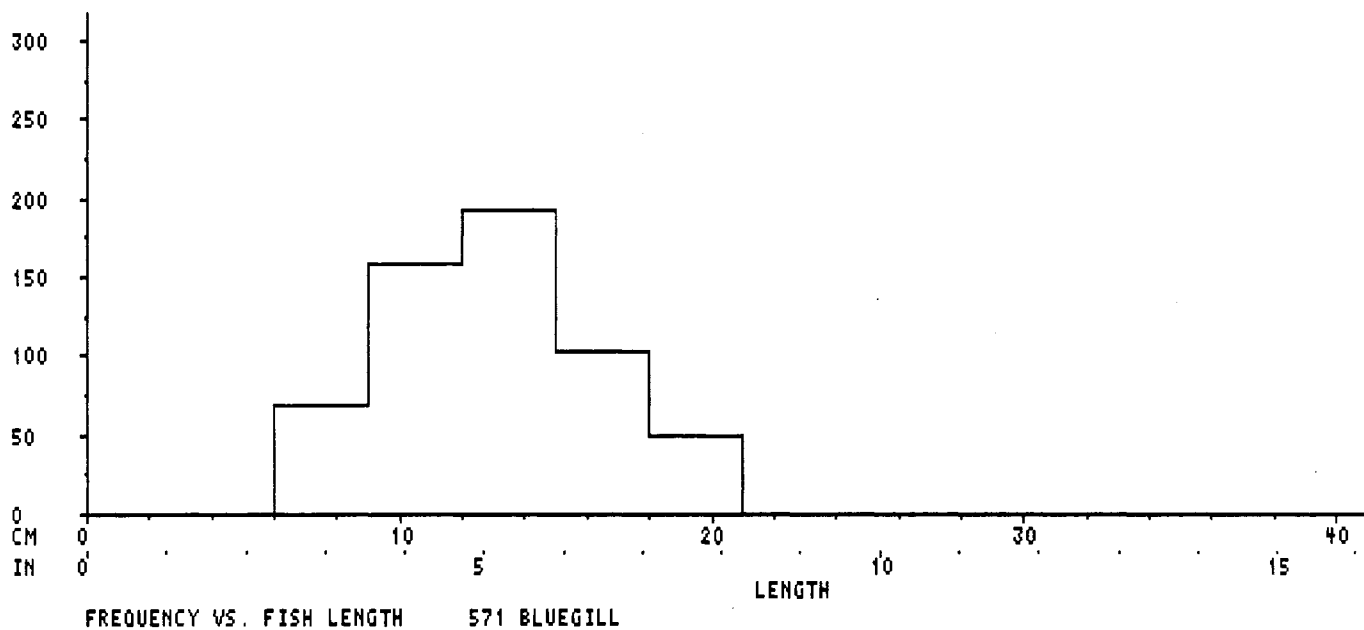


Figure 4. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

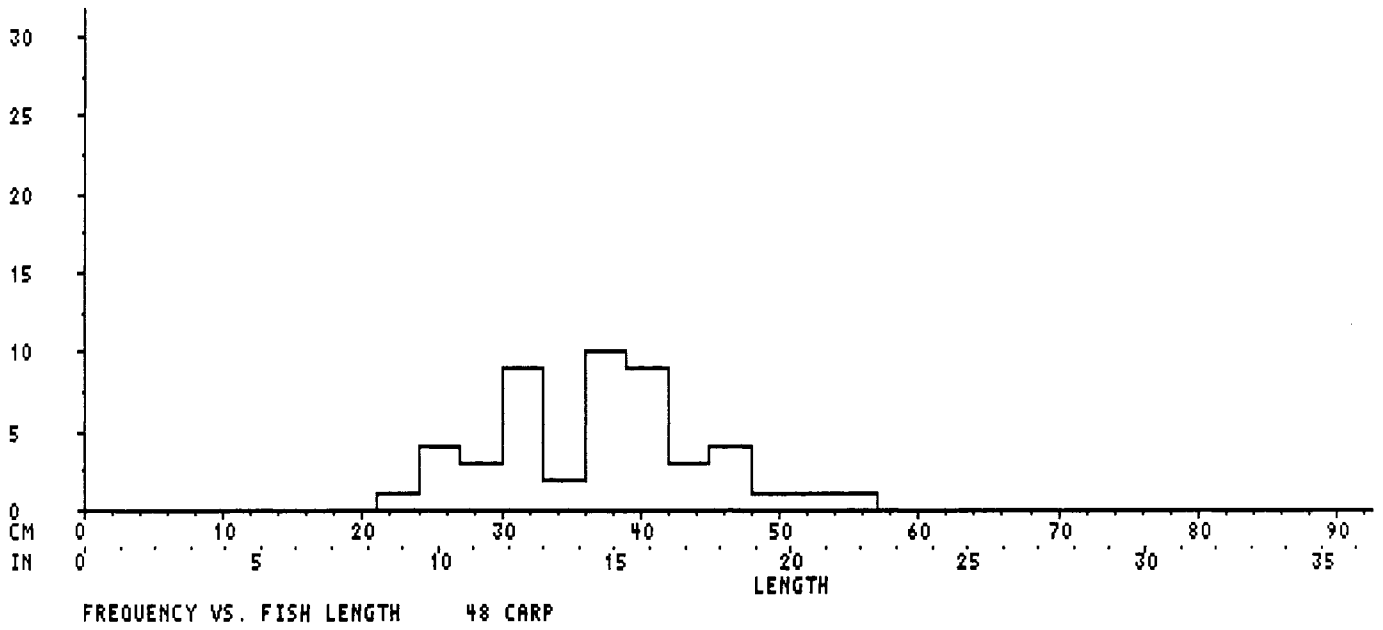


Figure 5. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

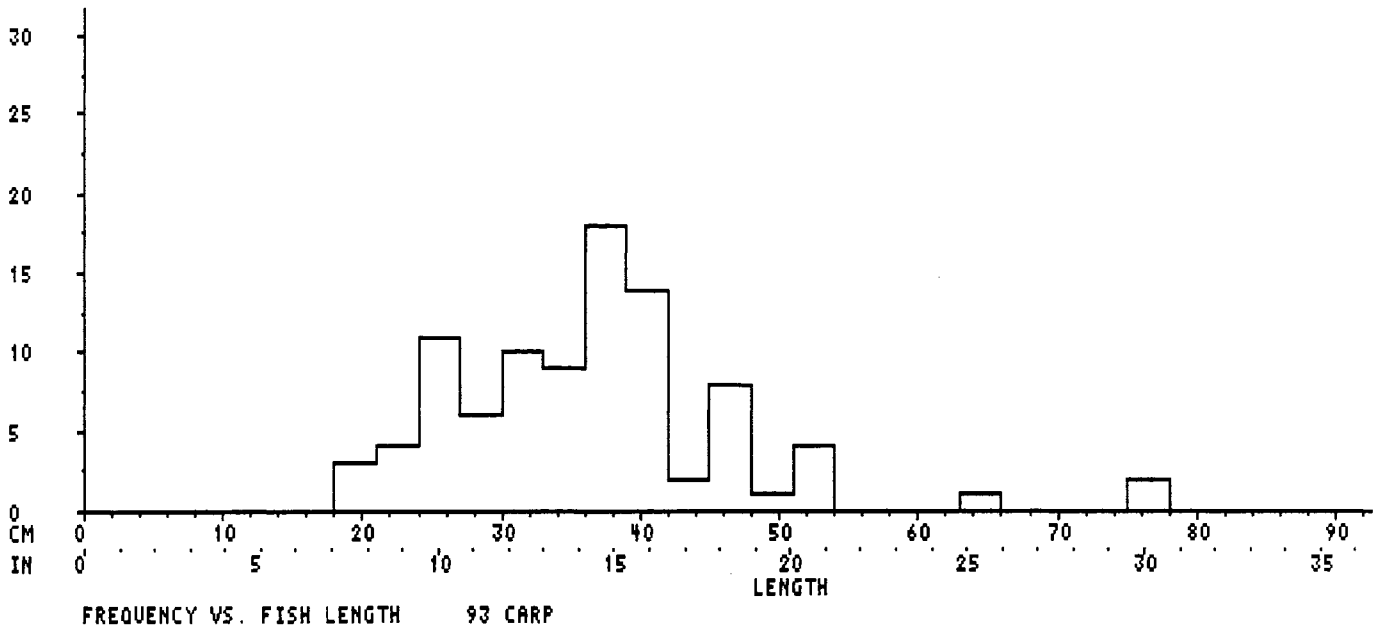


Figure 6. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

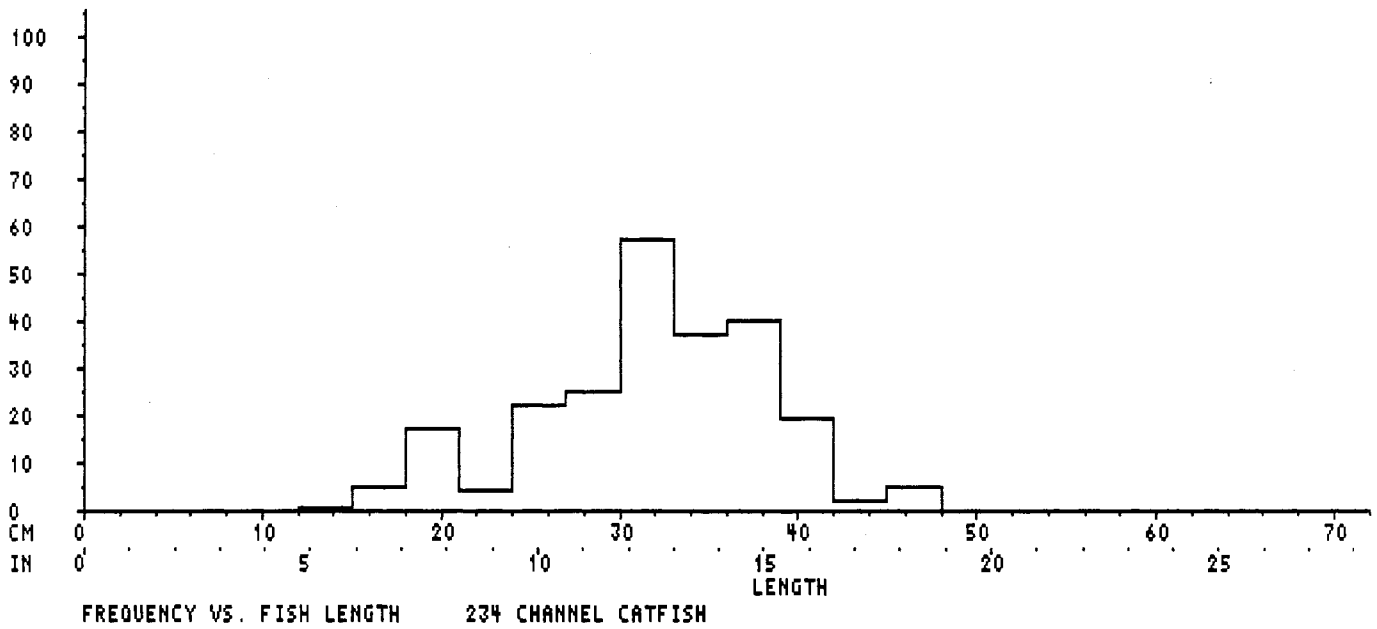


Figure 7. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

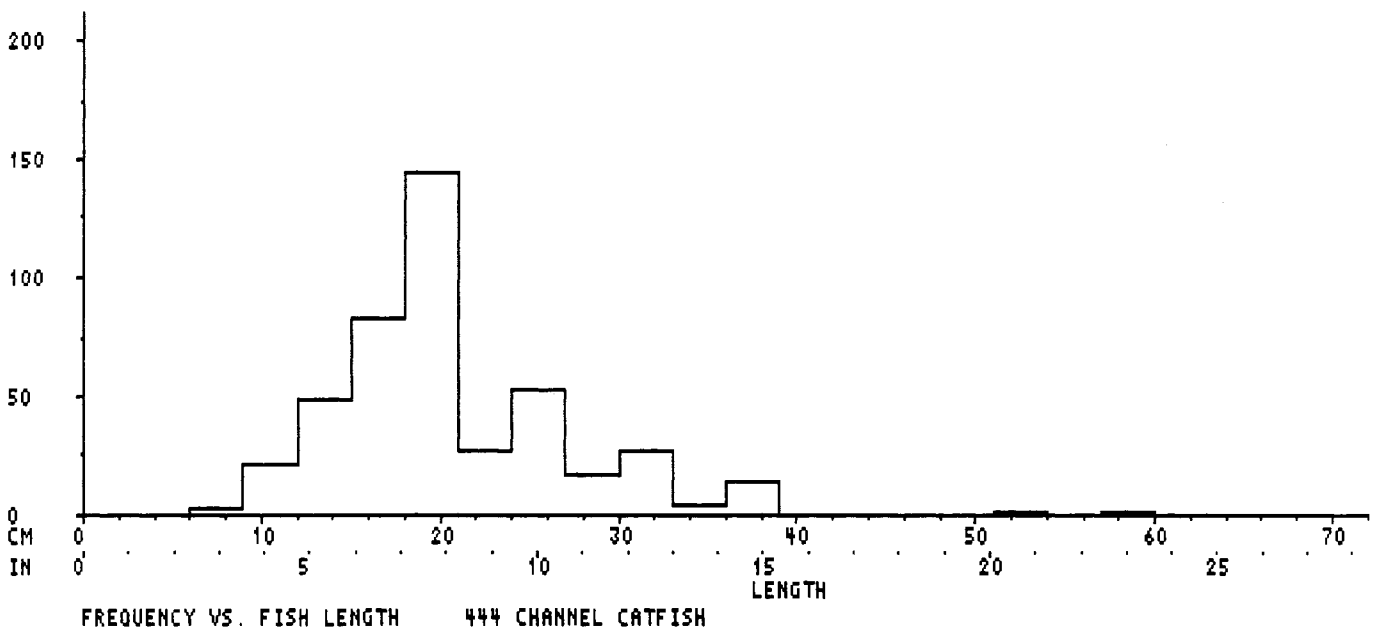


Figure 8. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers. Note the difference in scale from Figure 7.

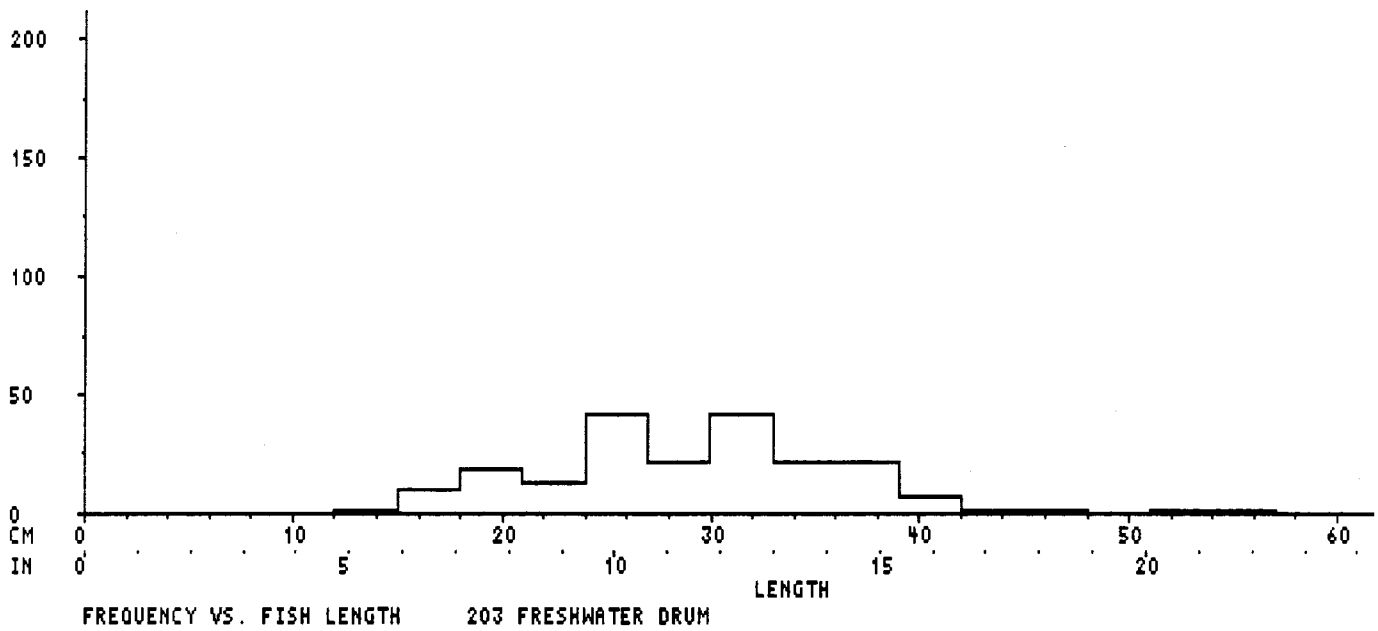


Figure 9. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum harvested by all anglers.

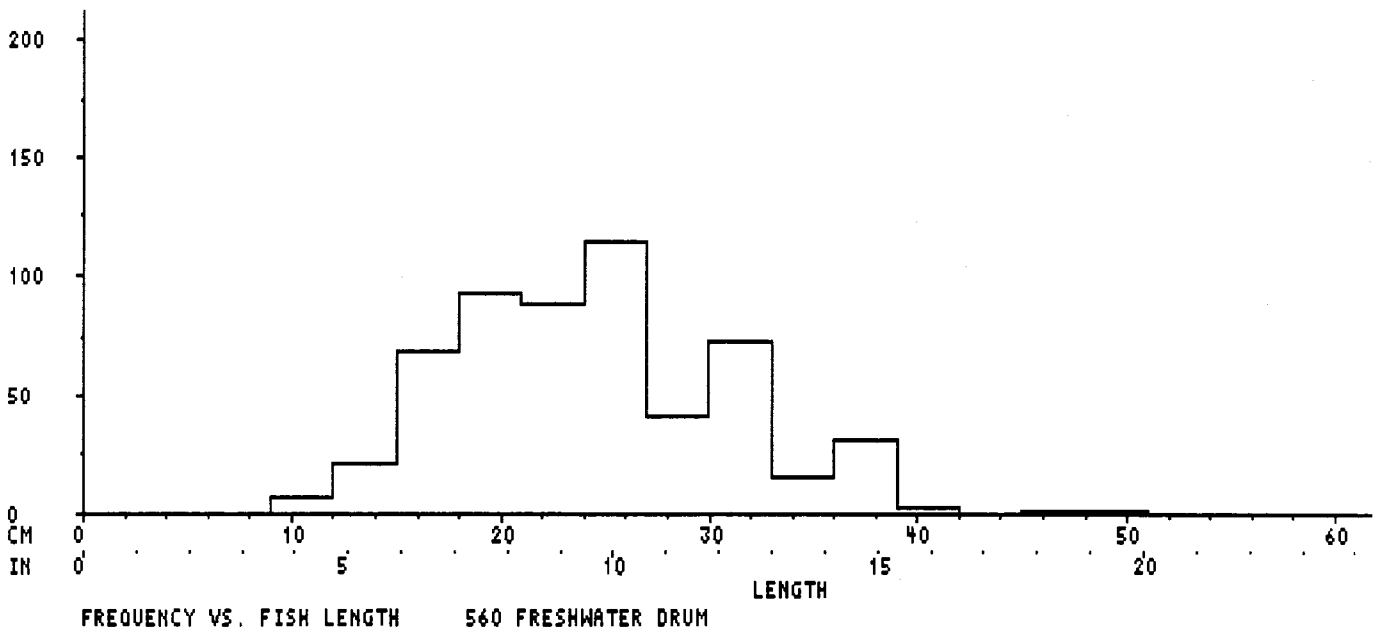


Figure 10. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum released by all anglers.

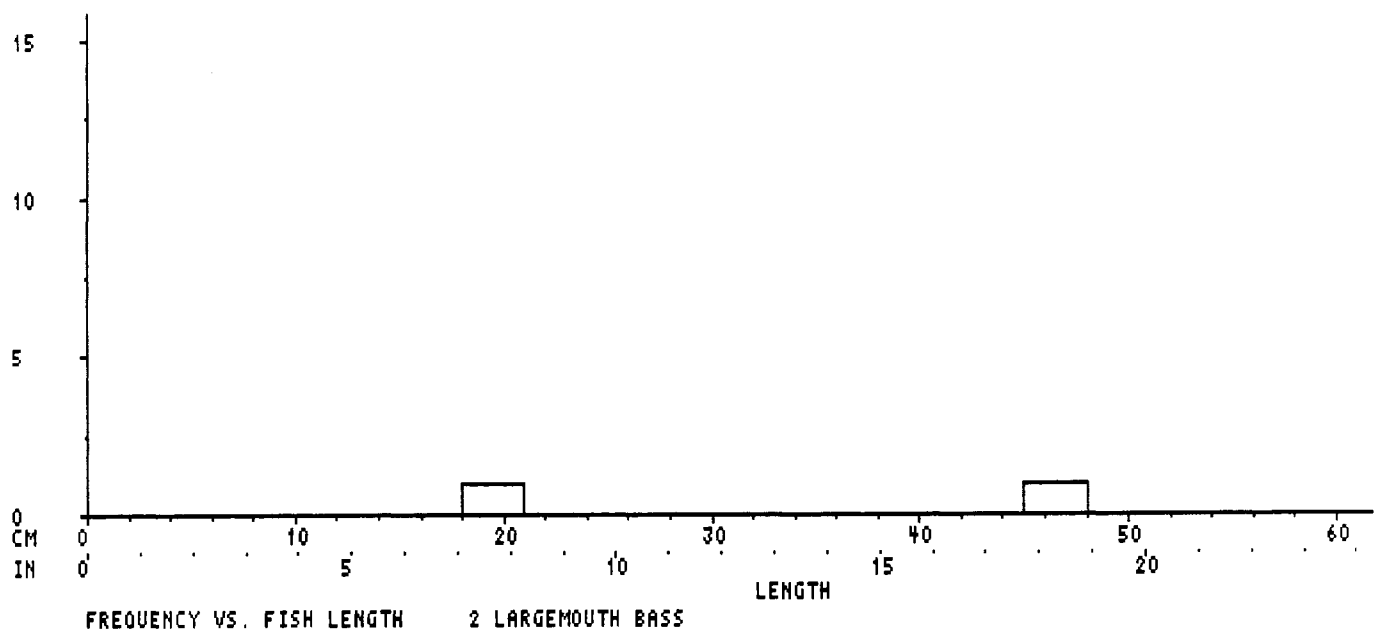


Figure 11. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

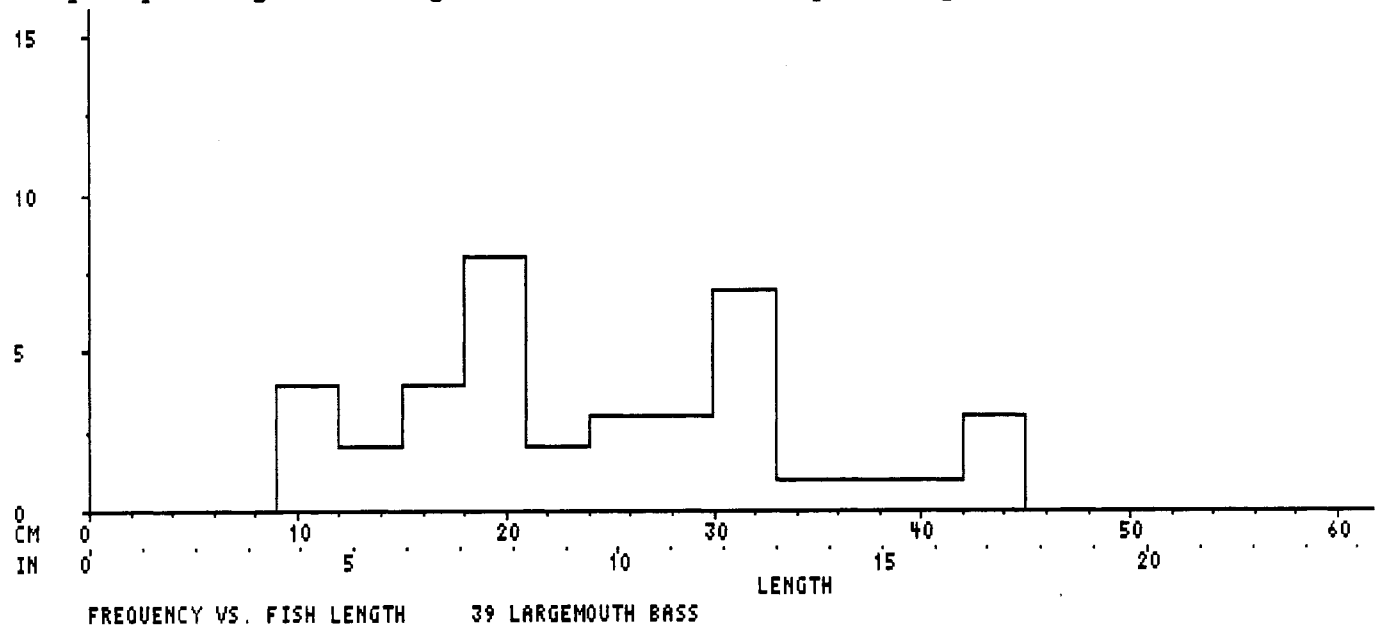


Figure 12. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers.

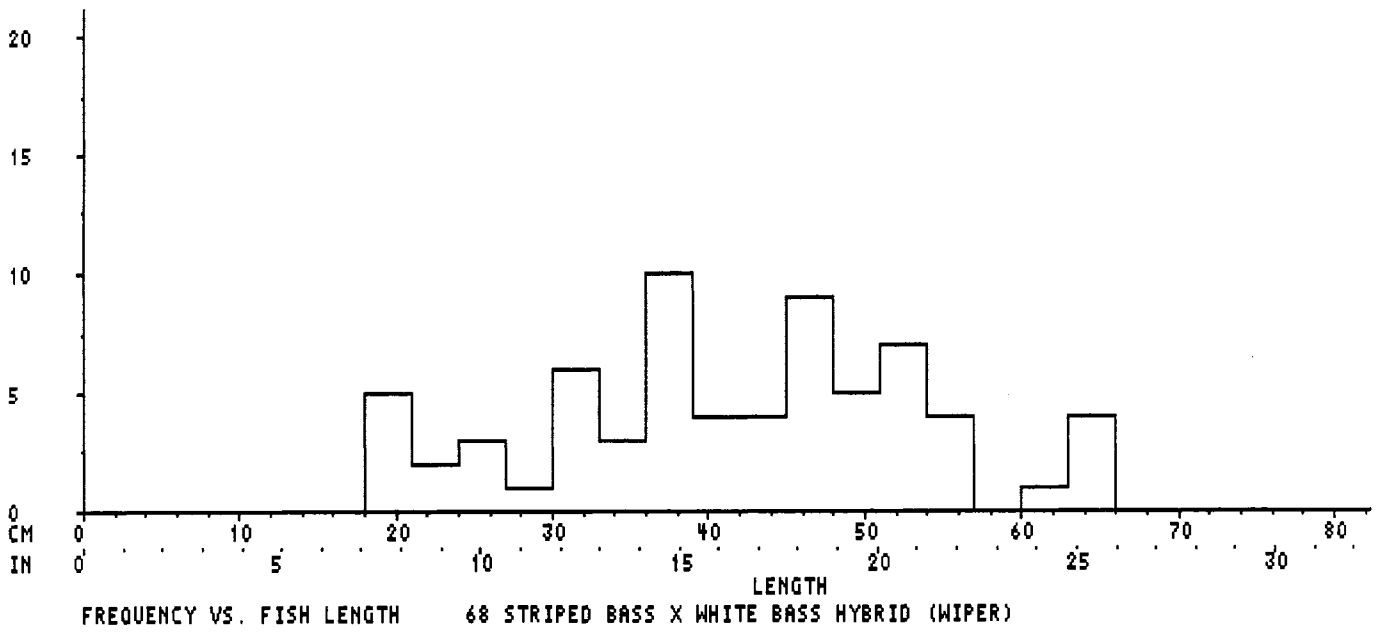


Figure 13. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid harvested by all anglers.

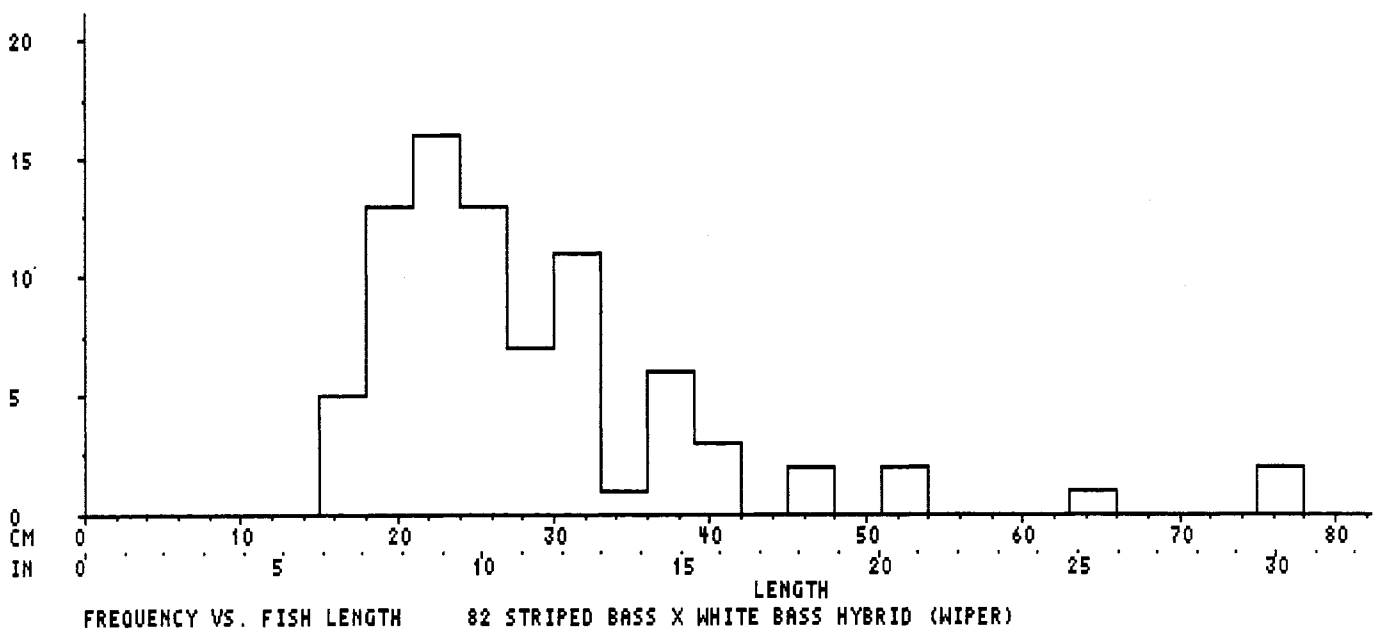


Figure 14. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid released by all anglers.

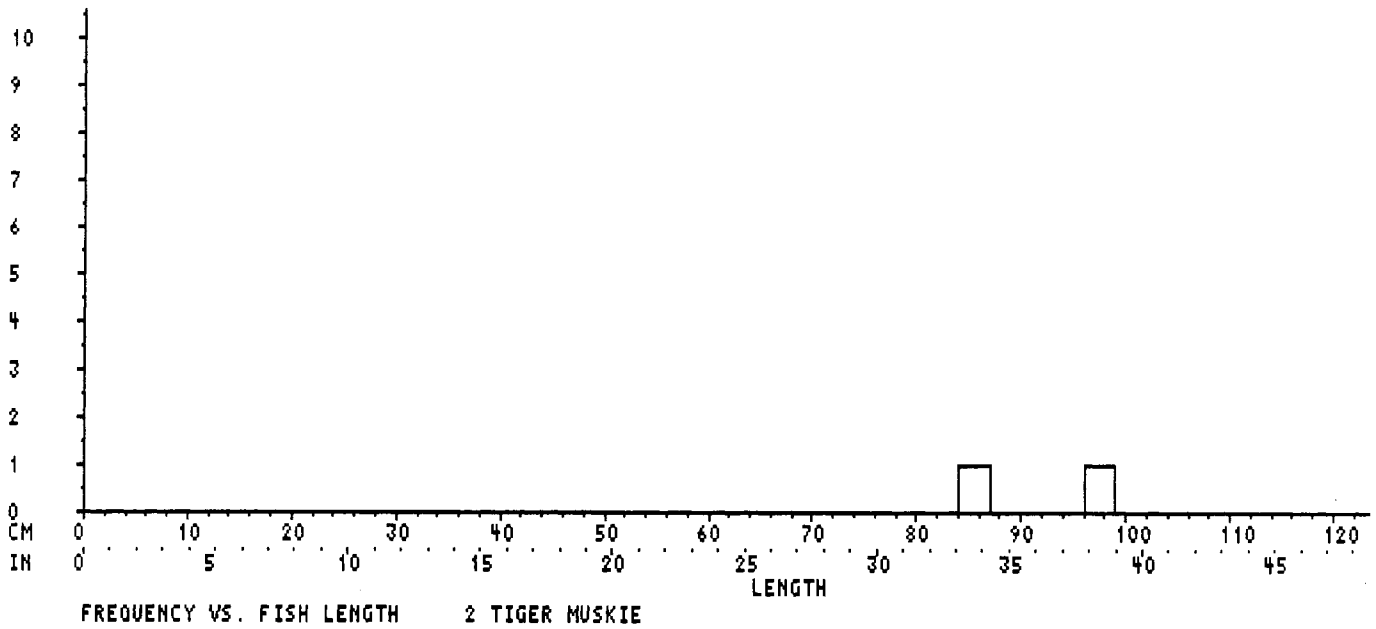


Figure 15. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of tiger muskie harvested by all anglers.

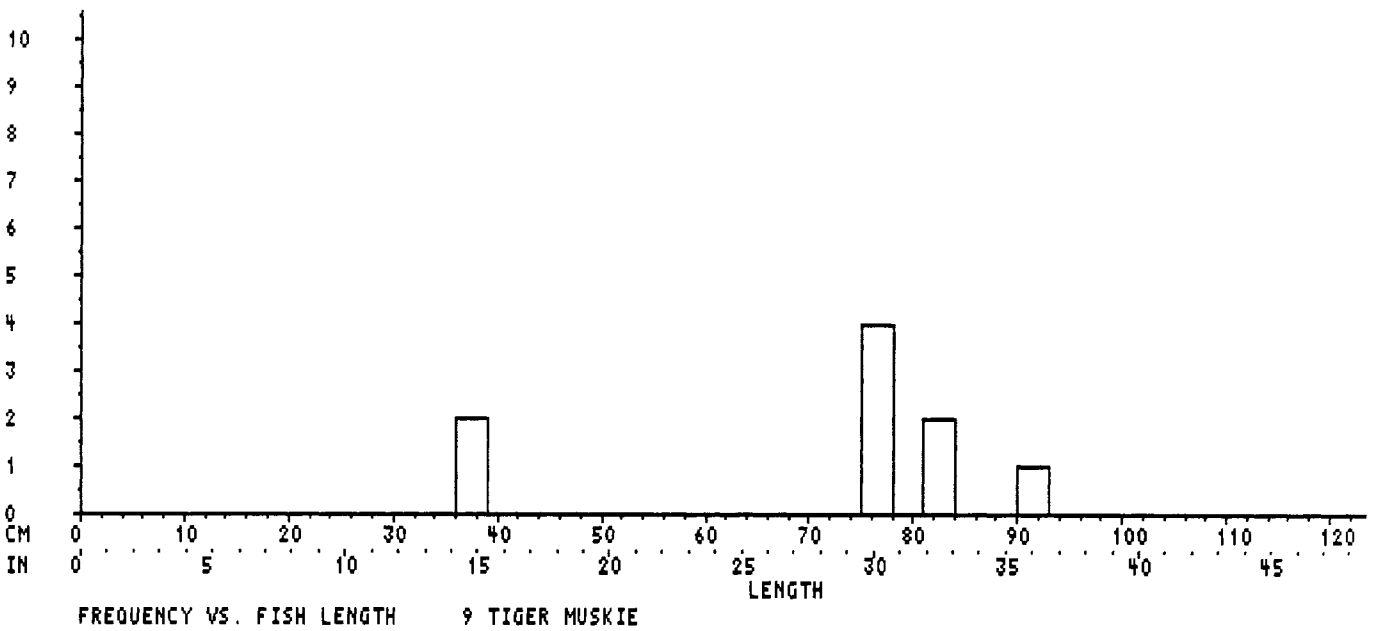


Figure 16. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of tiger muskie released by all anglers.

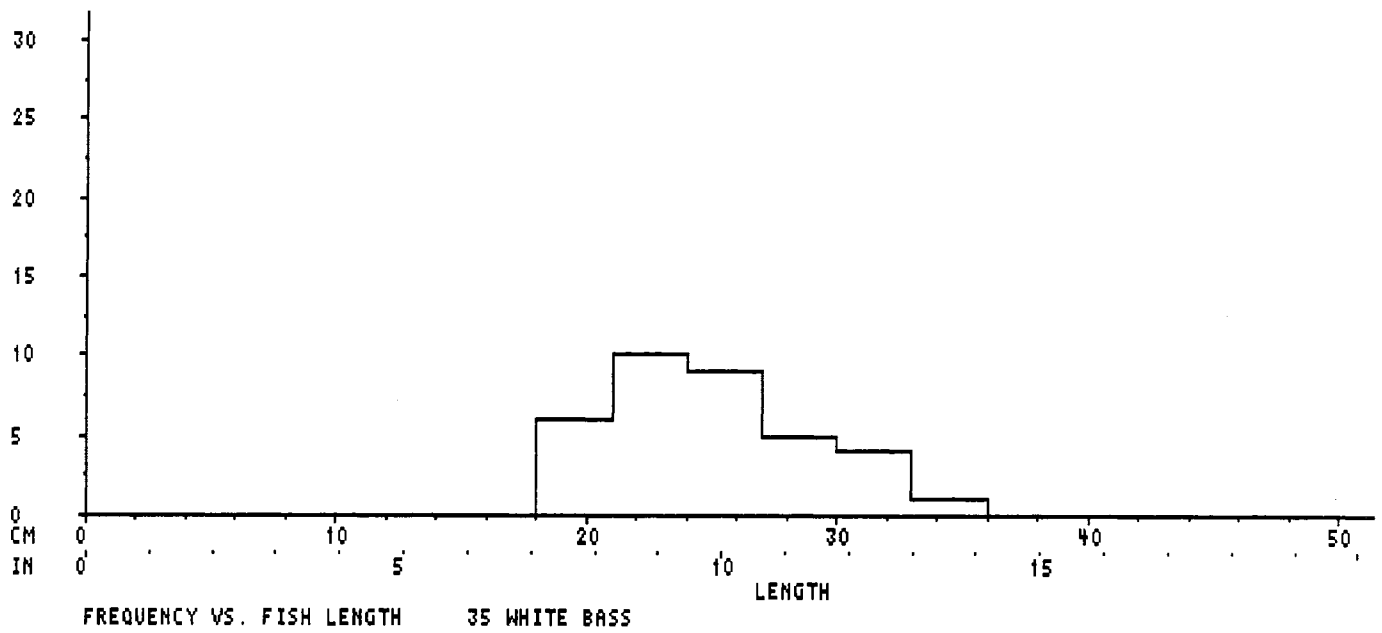


Figure 17. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass harvested by all anglers.

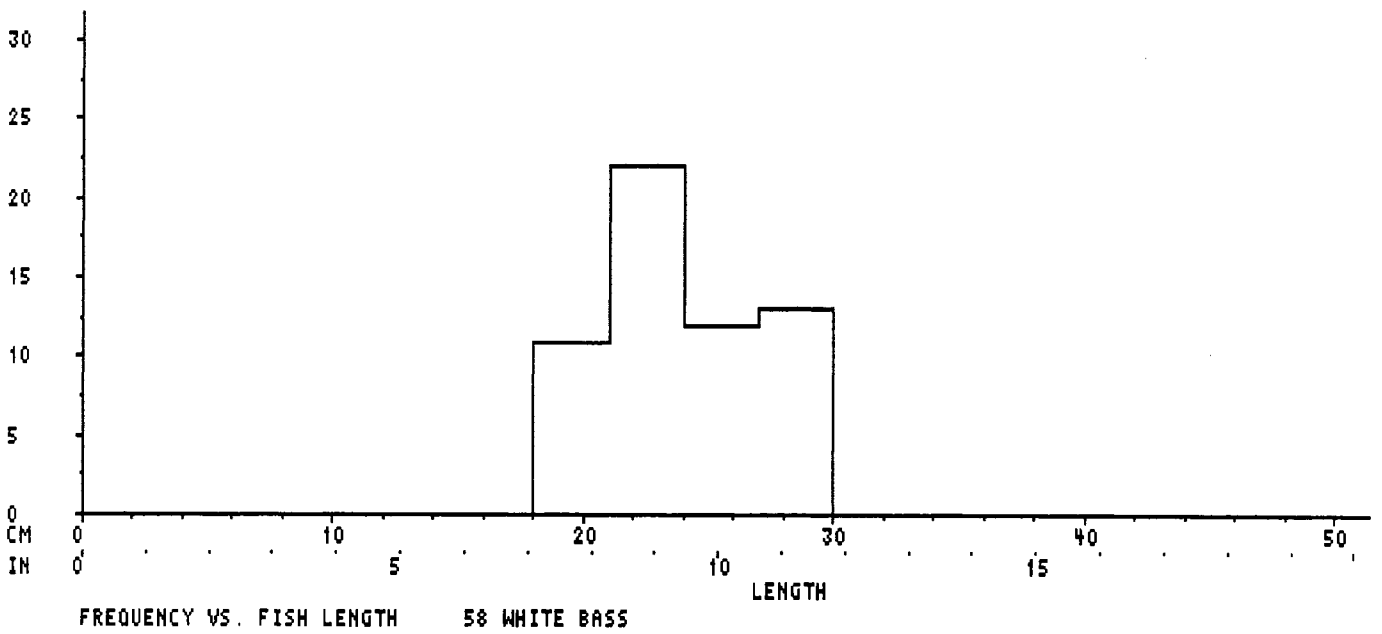


Figure 18. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass released by all anglers.

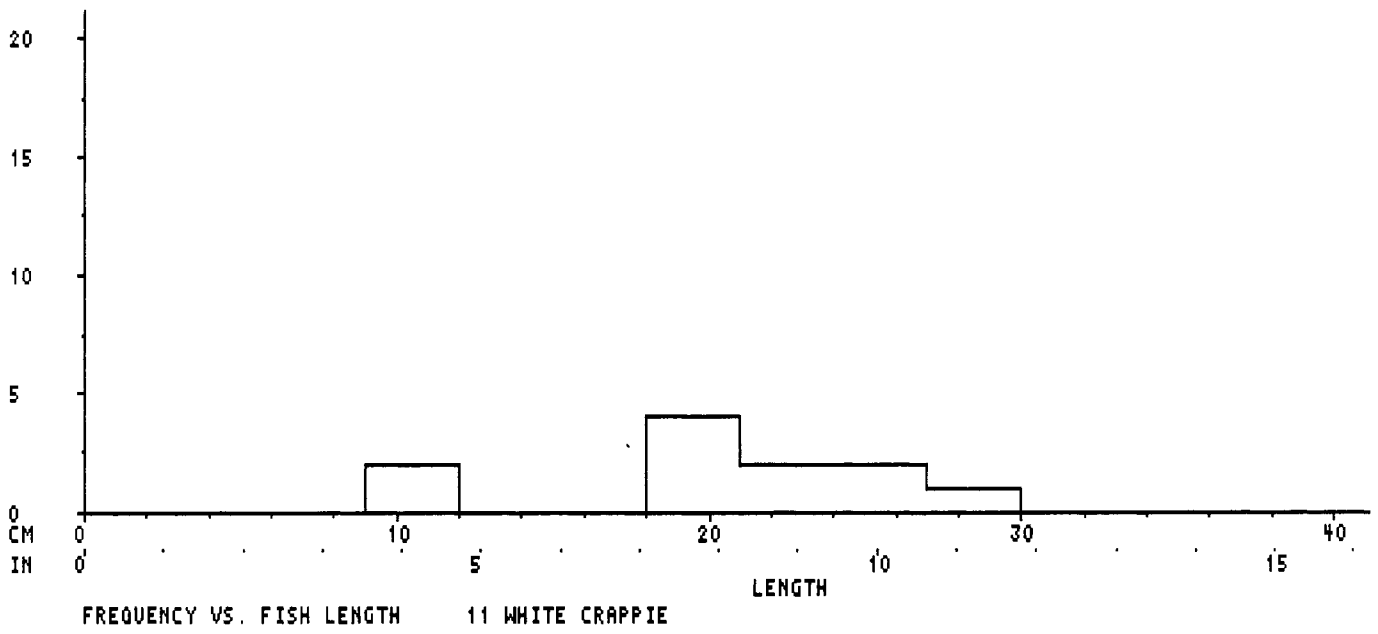


Figure 19. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

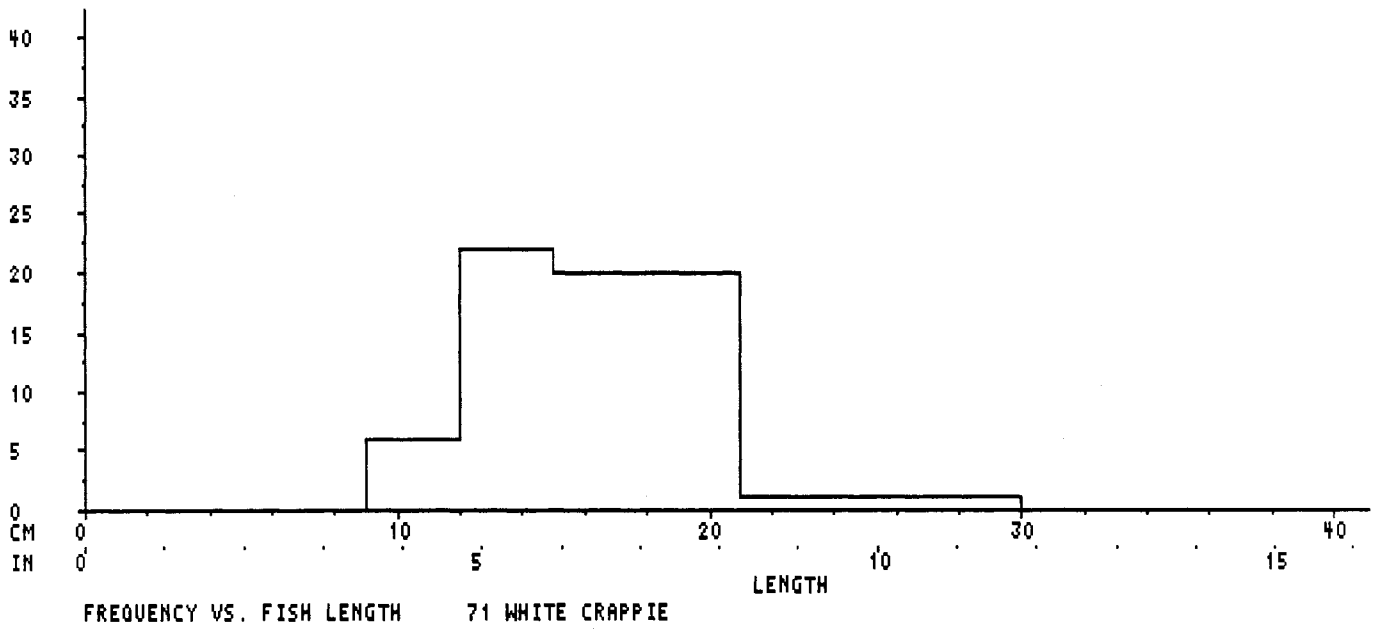


Figure 20. Carlyle Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 19.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 CLINTON LAKE
 4895 ACRES
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 467/693 = 67.4%

NUMBER OF INTERVIEWS: 4873

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	64364	55394-73335 (14%)	13	11-15 (14%)	7%
	HOLIDAY	75882	63216-88549 (17%)	16	13-18 (17%)	11%
	TOTAL	140247	124725-155768 (11%)	29	25-32 (11%)	9%
SHORE	WEEKDAY	26316	22930-29702 (13%)	5	5-6 (13%)	6%
	HOLIDAY	26812	22654-30970 (16%)	5	5-6 (16%)	10%
	TOTAL	53128	47765-58490 (10%)	11	10-12 (10%)	8%
BOAT & SHORE	WEEKDAY	90680	81092-100268 (11%)	19	17-20 (11%)	6%
	HOLIDAY	102694	89363-116026 (13%)	21	18-24 (13%)	10%
	TOTAL	193374	176953-209796 (8%)	40	36-43 (8%)	8%

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

# HARVESTED	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
123600	108426-138774 (12%)	.483	.413-.553 (15%)	62.39	25.25	All species
5	0-15 (216%)	.000	.000-.000 (216%)	0.00	0.00	Bluegill x Green sun
50	0-113 (125%)	.000	.000-.000 (130%)	0.03	0.01	Black bullhead
32084	25706-38463 (20%)	.098	.080-.116 (18%)	16.20	6.55	Black crappie
36024	29008-43039 (19%)	.140	.111-.168 (20%)	18.18	7.36	Bluegill
103	26-179 (75%)	.000	.000-.000 (74%)	0.05	0.02	Carp
22161	19261-25061 (13%)	.117	.099-.134 (15%)	11.19	4.53	Channel catfish
69	15-123 (78%)	.000	.000-.001 (94%)	0.04	0.01	Flathead catfish
704	316-1092 (55%)	.002	.001-.004 (74%)	0.36	0.14	Freshwater drum
2097	765-3430 (64%)	.038	.000-.095 (147%)	1.06	0.43	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
782	510-1055 (35%)	.002	.001-.002 (42%)	0.39	0.16	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
1248	855-1641 (31%)	.005	.002-.008 (54%)	0.63	0.25	Striped bass hybrid
27	0-63 (134%)	.000	.000-.000 (150%)	0.01	0.01	Smallmouth bass
3174	0-7192 (127%)	.012	.000-.026 (114%)	1.60	0.65	Striped bass
		****	NOT RECORDED ****			Tiger muskie
3232	2350-4115 (27%)	.009	.006-.012 (33%)	1.63	0.66	Walleye
		****	NOT RECORDED ****			Warmouth
3138	2195-4081 (30%)	.010	.006-.013 (38%)	1.58	0.64	White bass
18237	11403-25071 (37%)	.047	.037-.058 (23%)	9.21	3.73	White crappie
464	188-740 (59%)	.002	.001-.003 (54%)	0.23	0.09	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
35430	31386-39474 (11%)	.140	.123-.157 (12%)	17.88	0.287	All species
0	0-2 (218%)	.000	.000-.000 (216%)	0.00	0.099	Bluegill x Green sun
20	0-46 (129%)	.000	.000-.000 (135%)	0.01	0.399	Black bullhead
6963	5535-8390 (21%)	.022	.017-.026 (19%)	3.51	0.217	Black crappie
3549	2826-4272 (20%)	.013	.010-.016 (20%)	1.79	0.099	Bluegill
89	24-155 (73%)	.000	.000-.000 (87%)	0.05	0.872	Carp
13760	11805-15716 (14%)	.069	.056-.081 (18%)	6.95	0.621	Channel catfish
194	28-360 (86%)	.001	.000-.002 (92%)	0.10	2.796	Flathead catfish
390	202-578 (48%)	.001	.001-.002 (53%)	0.20	0.554	Freshwater drum
112	54-171 (52%)	.002	.000-.004 (142%)	0.06	0.054	Green sunfish
		****	NOT RECORDED ****			Gizzard shad
836	544-1127 (35%)	.002	.001-.002 (41%)	0.42	1.068	Largemouth bass
		****	NOT RECORDED ****			Redear sunfish
1573	990-2156 (37%)	.006	.003-.009 (57%)	0.79	1.261	Striped bass hybrid
27	0-64 (137%)	.000	.000-.000 (137%)	0.01	0.997	Smallmouth bass
1107	0-2436 (120%)	.006	.000-.013 (119%)	0.56	0.349	Striped bass
		****	NOT RECORDED ****			Tiger muskie
2106	1502-2710 (29%)	.006	.004-.008 (33%)	1.06	0.652	Walleye
		****	NOT RECORDED ****			Warmouth
724	501-948 (31%)	.002	.001-.003 (38%)	0.37	0.231	White bass
3808	2255-5361 (41%)	.010	.007-.012 (23%)	1.92	0.209	White crappie
171	60-281 (65%)	.001	.000-.001 (56%)	0.09	0.368	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
78109	69194-87025	(11%)	.308	.271-.346 (12%)	15.96	0.632	All species
1	0-3	(218%)	.000	.000-.000 (218%)	0.00	0.217	Bluegill x Green sun
44	0-101	(129%)	.000	.000-.000 (135%)	0.01	0.880	Black bullhead
15350	12203-18496	(21%)	.047	.039-.056 (19%)	3.14	0.478	Black crappie
7825	6231-9419	(20%)	.029	.023-.035 (20%)	1.60	0.217	Bluegill
197	53-342	(73%)	.001	.000-.001 (87%)	0.04	1.923	Carp
30336	26025-34647	(14%)	.152	.124-.179 (18%)	6.20	1.369	Channel catfish
428	61-794	(86%)	.002	.000-.004 (92%)	0.09	6.163	Flathead catfish
859	445-1273	(48%)	.003	.001-.004 (53%)	0.18	1.220	Freshwater drum
248	119-376	(52%)	.004	.000-.009 (142%)	0.05	0.118	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
1842	1199-2485	(35%)	.004	.002-.005 (41%)	0.38	2.355	Largemouth bass
			****	NOT RECORDED ****			Redear sunfish
3468	2184-4753	(37%)	.013	.006-.020 (57%)	0.71	2.779	Striped bass hybrid
59	0-140	(137%)	.000	.000-.000 (137%)	0.01	2.197	Smallmouth bass
2440	0-5371	(120%)	.013	.000-.028 (119%)	0.50	0.769	Striped bass
			****	NOT RECORDED ****			Tiger muskie
4643	3312-5974	(29%)	.013	.009-.018 (33%)	0.95	1.436	Walleye
			****	NOT RECORDED ****			Warmouth
1597	1104-2089	(31%)	.005	.003-.006 (38%)	0.33	0.509	White bass
8396	4972-11820	(41%)	.022	.016-.027 (23%)	1.72	0.460	White crappie
376	132-620	(65%)	.002	.001-.003 (56%)	0.08	0.810	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
404842	360763-448921 (11%)	1.530	1.349-1.712 (12%)	204.36	82.71	All species
5	0-15 (216%)	.000	.000-.000 (216%)	0.00	0.00	Bluegill x Green sun
305	17-592 (94%)	.002	.000-.003 (90%)	0.15	0.06	Black bullhead
90380	73825-106935 (18%)	.293	.246-.341 (16%)	45.62	18.46	Black crappie
104123	88911-119335 (15%)	.446	.368-.523 (17%)	52.56	21.27	Bluegill
1905	1379-2431 (28%)	.008	.005-.012 (42%)	0.96	0.39	Carp
37191	32636-41746 (12%)	.194	.156-.232 (20%)	18.77	7.60	Channel catfish
96	19-173 (80%)	.001	.000-.001 (92%)	0.05	0.02	Flathead catfish
16471	13775-19166 (16%)	.077	.058-.096 (24%)	8.31	3.36	Freshwater drum
4568	2296-6841 (50%)	.067	.000-.161 (140%)	2.31	0.93	Green sunfish
8	0-23 (196%)	.000	.000-.000 (196%)	0.00	0.00	Gizzard shad
43221	37848-48594 (12%)	.134	.115-.153 (14%)	21.82	8.83	Largemouth bass
35	0-119 (236%)	.000	.000-.002 (245%)	0.02	0.01	Redear sunfish
5489	3948-7030 (28%)	.020	.011-.028 (42%)	2.77	1.12	Striped bass hybrid
699	432-966 (38%)	.002	.001-.003 (50%)	0.35	0.14	Smallmouth bass
10046	4193-15899 (58%)	.037	.018-.057 (53%)	5.07	2.05	Striped bass
55	6-105 (90%)	.000	.000-.000 (154%)	0.03	0.01	Tiger muskie
11233	8921-13545 (21%)	.033	.025-.041 (25%)	5.67	2.29	Walleye
144	0-287 (100%)	.004	.000-.013 (209%)	0.07	0.03	Warmouth
26133	10722-41545 (59%)	.069	.031-.107 (55%)	13.19	5.34	White bass
51973	37856-66090 (27%)	.140	.114-.167 (19%)	26.24	10.62	White crappie
763	394-1132 (48%)	.003	.002-.005 (48%)	0.39	0.16	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
82182	73823-90541 (10%)	.296	.268-.323 (9%)	41.49	0.203	All species
0	0-2 (218%)	.000	.000-.000 (216%)	0.00	0.099	Bluegill x Green sun
61	11-111 (82%)	.000	.000-.001 (80%)	0.03	0.200	Black bullhead
13863	11277-16449 (19%)	.044	.037-.051 (16%)	7.00	0.153	Black crappie
5946	4977-6915 (16%)	.023	.019-.027 (17%)	3.00	0.057	Bluegill
835	611-1059 (27%)	.003	.002-.004 (37%)	0.42	0.438	Carp
17594	15276-19913 (13%)	.088	.072-.105 (19%)	8.88	0.473	Channel catfish
239	48-430 (80%)	.001	.000-.002 (87%)	0.12	2.484	Flathead catfish
2980	2445-3516 (18%)	.013	.010-.015 (21%)	1.50	0.181	Freshwater drum
174	96-252 (45%)	.002	.000-.006 (139%)	0.09	0.038	Green sunfish
0	0-0 (196%)	.000	.000-.000 (196%)	0.00	0.012	Gizzard shad
17489	14967-20011 (14%)	.050	.041-.058 (17%)	8.83	0.405	Largemouth bass
1	0-3 (236%)	.000	.000-.000 (245%)	0.00	0.022	Redear sunfish
3235	2393-4077 (26%)	.012	.007-.016 (38%)	1.63	0.589	Striped bass hybrid
477	271-683 (43%)	.001	.001-.002 (56%)	0.24	0.682	Smallmouth bass
2647	1130-4165 (57%)	.012	.003-.021 (76%)	1.34	0.264	Striped bass
291	0-583 (100%)	.001	.000-.002 (172%)	0.15	5.265	Tiger muskie
4489	3508-5470 (22%)	.013	.010-.016 (26%)	2.27	0.400	Walleye
7	1-13 (90%)	.000	.000-.001 (210%)	0.00	0.049	Warmouth
4577	1385-7769 (70%)	.012	.004-.020 (65%)	2.31	0.175	White bass
7066	5023-9109 (29%)	.018	.015-.022 (19%)	3.57	0.136	White crappie
210	93-328 (56%)	.001	.000-.001 (51%)	0.11	0.276	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
181181	162752-199610 (10%)	.651	.591-.712 (9%)	37.01	0.448	All species
1	0-3 (218%)	.000	.000-.000 (218%)	0.00	0.217	Bluegill x Green sun
135	24-245 (82%)	.001	.000-.001 (80%)	0.03	0.442	Black bullhead
30563	24862-36263 (19%)	.098	.082-.113 (16%)	6.24	0.338	Black crappie
13109	10972-15246 (16%)	.051	.043-.060 (17%)	2.68	0.126	Bluegill
1841	1346-2335 (27%)	.007	.004-.009 (37%)	0.38	0.966	Carp
38789	33678-43900 (13%)	.195	.159-.231 (19%)	7.92	1.043	Channel catfish
526	106-947 (80%)	.002	.000-.005 (87%)	0.11	5.476	Flathead catfish
6570	5390-7751 (18%)	.028	.022-.034 (21%)	1.34	0.399	Freshwater drum
383	211-555 (45%)	.005	.000-.012 (139%)	0.08	0.084	Green sunfish
0	0-1 (196%)	.000	.000-.000 (196%)	0.00	0.026	Gizzard shad
38557	32996-44117 (14%)	.110	.091-.129 (17%)	7.88	0.892	Largemouth bass
2	0-6 (236%)	.000	.000-.000 (245%)	0.00	0.048	Redear sunfish
7132	5277-8988 (26%)	.026	.016-.036 (38%)	1.46	1.299	Striped bass hybrid
1051	597-1505 (43%)	.003	.001-.004 (56%)	0.21	1.504	Smallmouth bass
5836	2490-9182 (57%)	.027	.006-.047 (76%)	1.19	0.581	Striped bass
642	0-1285 (100%)	.002	.000-.004 (172%)	0.13	11.608	Tiger muskie
9897	7735-12058 (22%)	.028	.021-.036 (26%)	2.02	0.881	Walleye
15	2-29 (90%)	.000	.000-.001 (210%)	0.00	0.108	Warmouth
10090	3053-17128 (70%)	.026	.009-.043 (65%)	2.06	0.386	White bass
15578	11073-20083 (29%)	.040	.033-.048 (19%)	3.18	0.300	White crappie
464	205-722 (56%)	.002	.001-.003 (51%)	0.09	0.608	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	4.0	3.7-4.3	(6%)	0.2	13.8	305
SHORE	2.5	2.2-2.8	(13%)	0.2	7.3	79
BOAT & SHORE	3.7	3.5-3.9	(6%)	0.2	13.8	384
MILES TRAVELED	45.2	43.9-46.5	(3%)	1	237	3706
SUCCESS RATING (1-10)	3.3	3.2-3.4	(2%)	1	10	3648

*202 samples were from split interviews of completed trips.

8.2% of all 4663 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 53 out of 4663 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	979	1848	343	65	16					
SHORE INTERVIEWS	530	702	141	26	7	5	1			

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

444 (9.5%)	ANY	All species
20 (0.4%)	BLC	Black crappie
131 (2.8%)	BLG	Bluegill
5 (0.1%)	CAP	Carp
7 (0.2%)	CAT	Unidentified catfish
1009 (21.6%)	CCF	Channel catfish
1310 (28.1%)	CRP	Crappie spp.
2 (0.0%)	FCF	Flathead catfish
1033 (22.2%)	LMB	Largemouth bass
144 (3.1%)	SBH	Striped bass hybrid (Wiper)
151 (3.2%)	STB	Striped bass
1 (0.0%)	TGM	Tiger muskie
284 (6.1%)	WAE	Walleye
91 (2.0%)	WHB	White bass
31 (0.7%)	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	679	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	677	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	539	32	22	11	17	19	6	6	6	2	4	3	3	2	-	7
RELEASE	526	26	26	17	9	16	10	4	8	1	3	4	1	6	-	22
Bluegill																
HARVEST	607	27	11	7	5	4	2	2	-	3	2	-	-	-	-	9
RELEASE	528	38	22	18	9	14	3	10	8	-	8	-	3	6	-	12
Carp																
HARVEST	677	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	660	17	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	576	65	15	8	5	1	3	1	1	-	1	-	1	-	1	1
RELEASE	599	46	16	7	2	4	1	1	-	-	1	-	1	-	-	1
Freshwater drum																
HARVEST	677	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	599	41	18	9	2	7	2	-	-	-	-	-	-	-	-	1
Green sunfish																
HARVEST	679	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	675	2	-	-	-	-	-	-	-	-	-	-	-	2	-	-
Largemouth bass																
HARVEST	669	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	429	133	46	35	10	9	8	1	-	3	1	2	-	1	-	1
Striped bass hybrid (Wiper)																
HARVEST	670	6	2	-	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	661	7	3	3	3	1	-	-	-	-	-	-	-	-	-	1
Smallmouth bass																
HARVEST	679	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	671	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	664	6	-	2	1	2	-	-	-	-	4	-	-	-	-	-
RELEASE	628	31	5	3	4	2	3	-	-	-	-	-	-	-	1	2
Walleye																
HARVEST	635	24	7	3	5	4	1	-	-	-	-	-	-	-	-	-
RELEASE	623	36	7	1	4	2	3	-	-	1	1	-	-	-	-	1

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Warmouth																
HARVEST	679	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	678	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	666	2	8	-	3	-	-	-	-	-	-	-	-	-	-	-
RELEASE	638	11	5	4	4	-	3	5	4	-	2	1	1	-	-	1
White crappie																
HARVEST	560	45	28	10	11	9	10	-	-	2	2	2	-	-	-	-
RELEASE	565	35	17	14	4	16	6	5	2	-	2	-	-	4	-	9
Yellow bullhead																
HARVEST	671	6	-	-	-	2	-	-	-	-	-	-	-	-	-	-
RELEASE	675	2	-	-	-	2	-	-	-	-	-	-	-	-	-	-

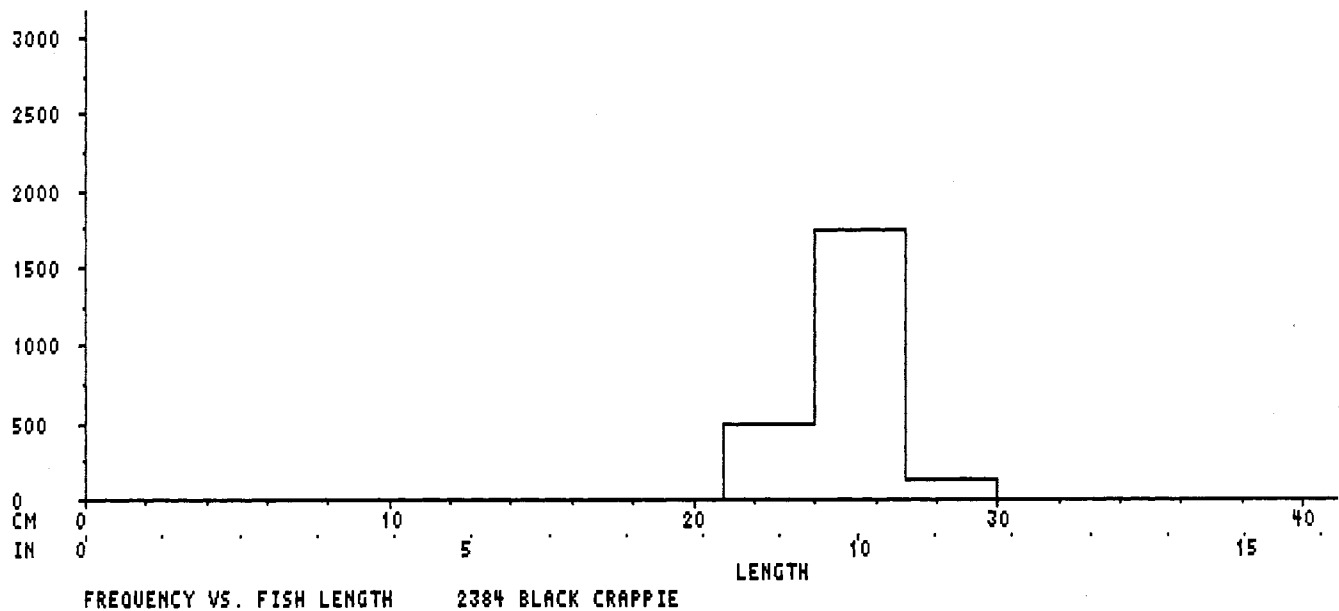


Figure 1. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

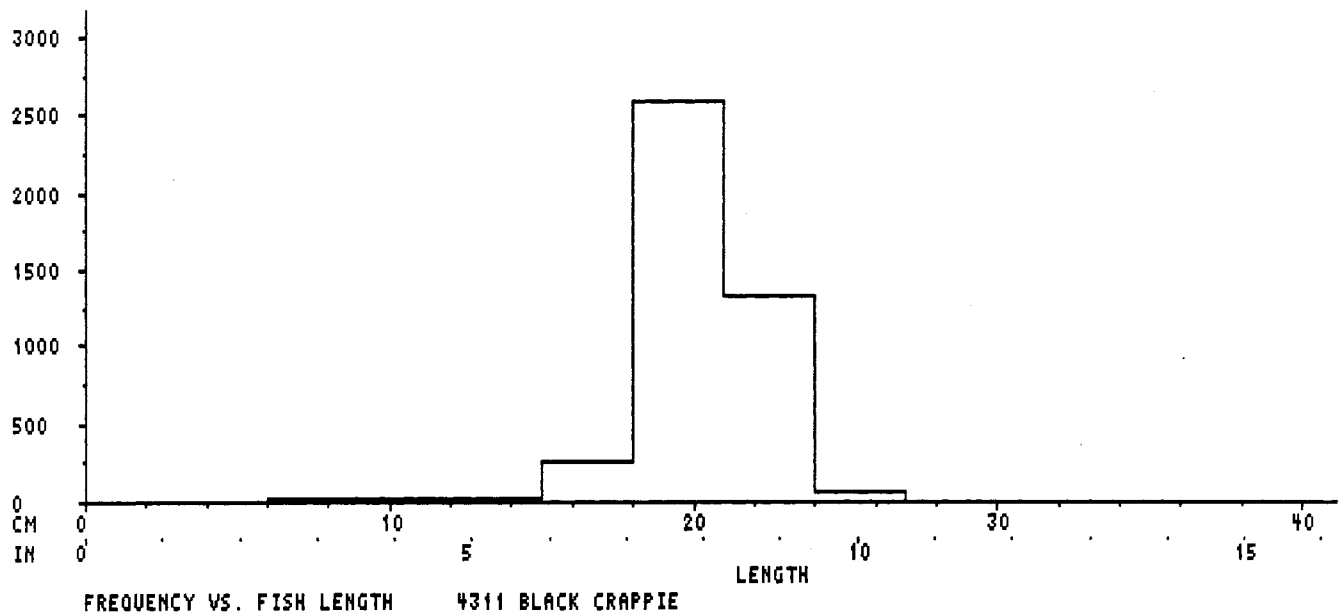


Figure 2. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

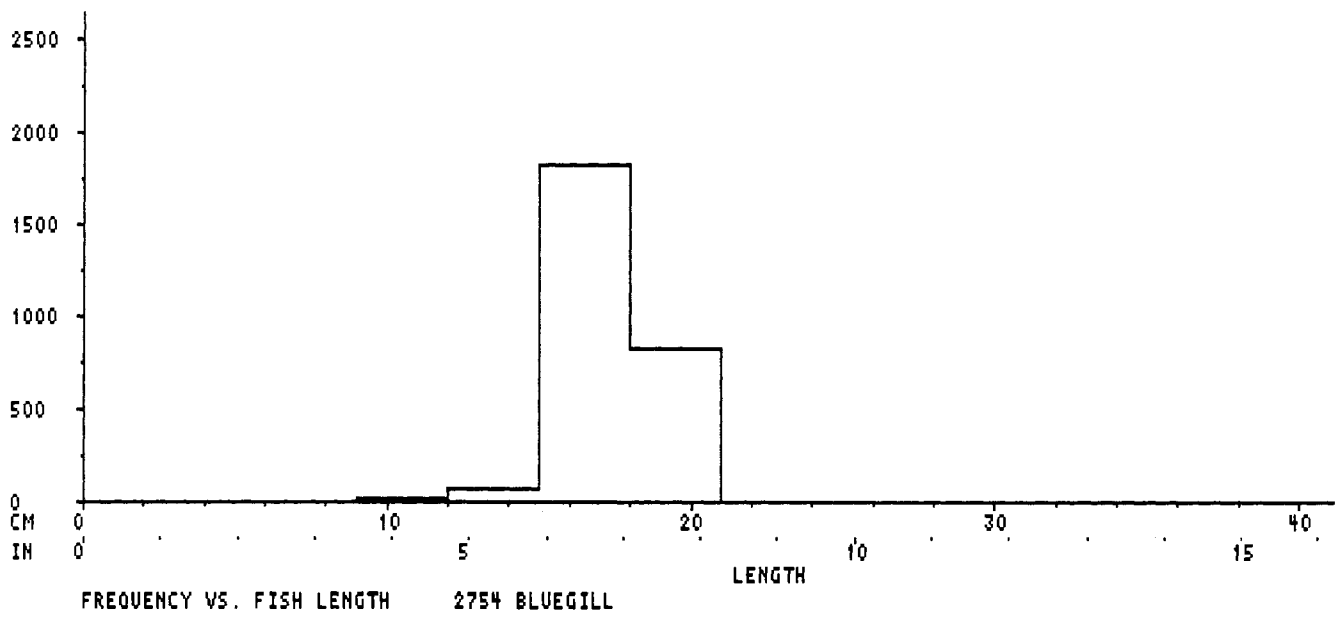


Figure 4. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

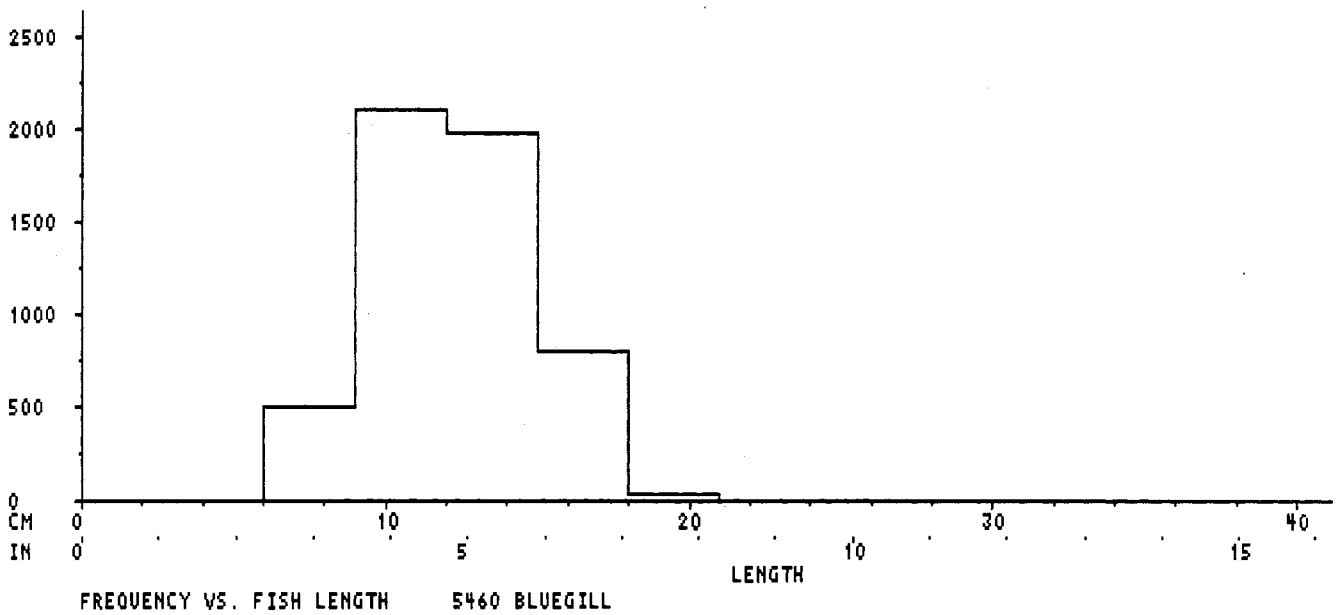


Figure 4. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

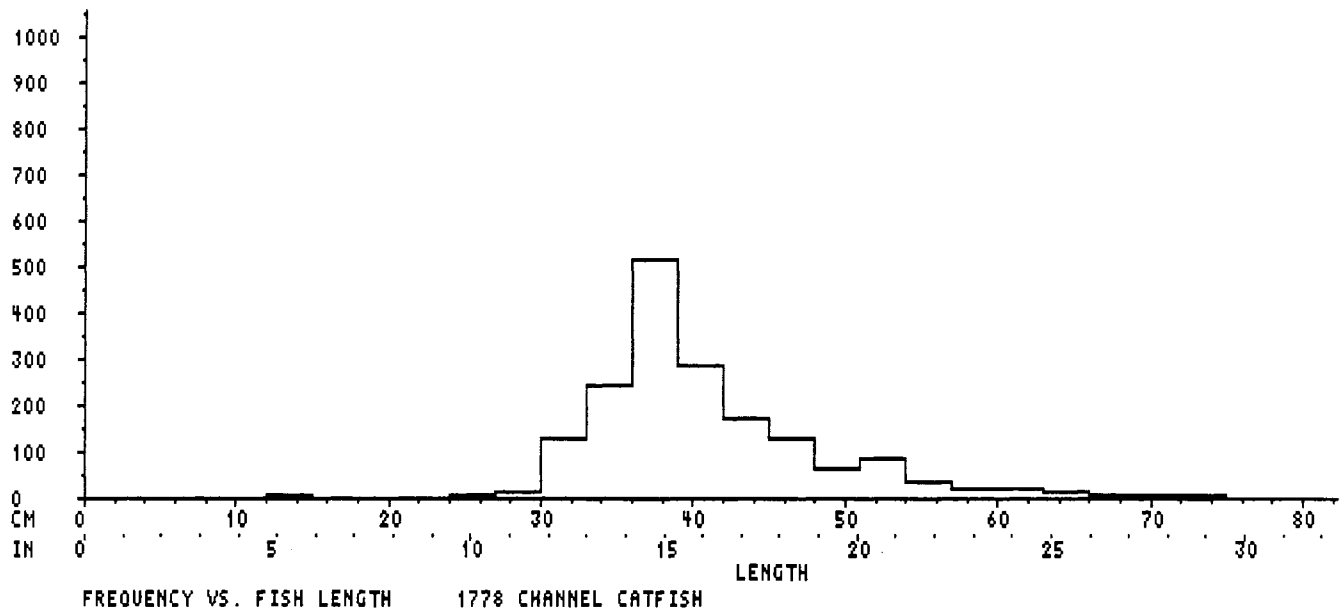


Figure 5. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

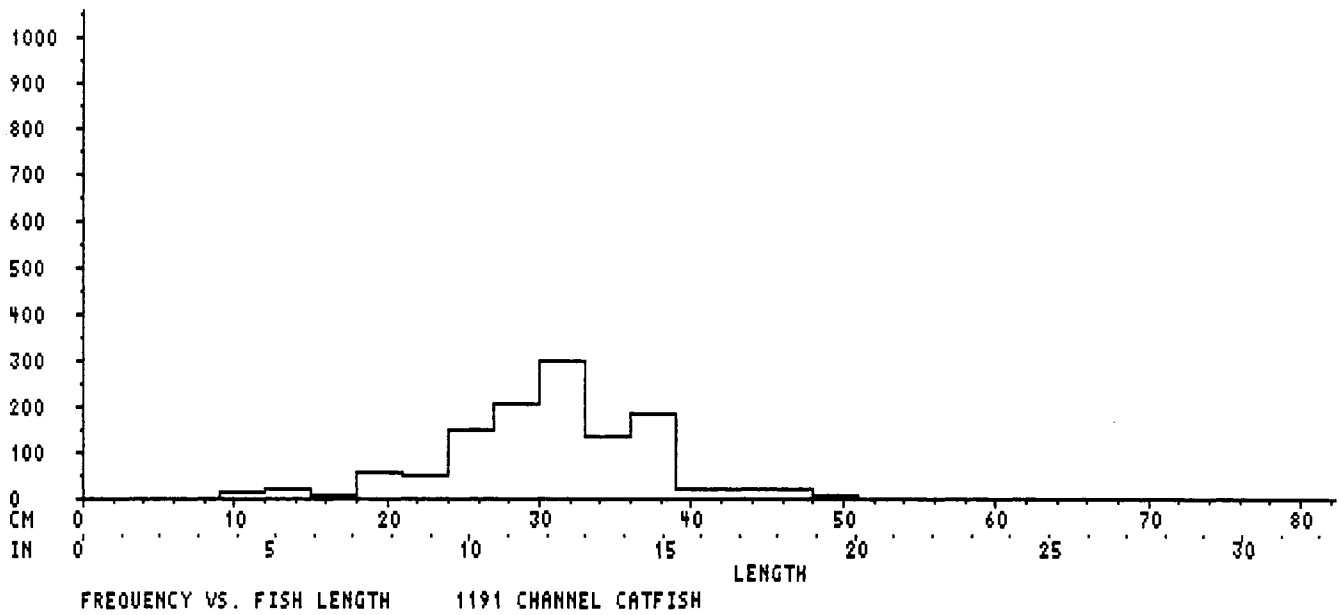


Figure 6. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

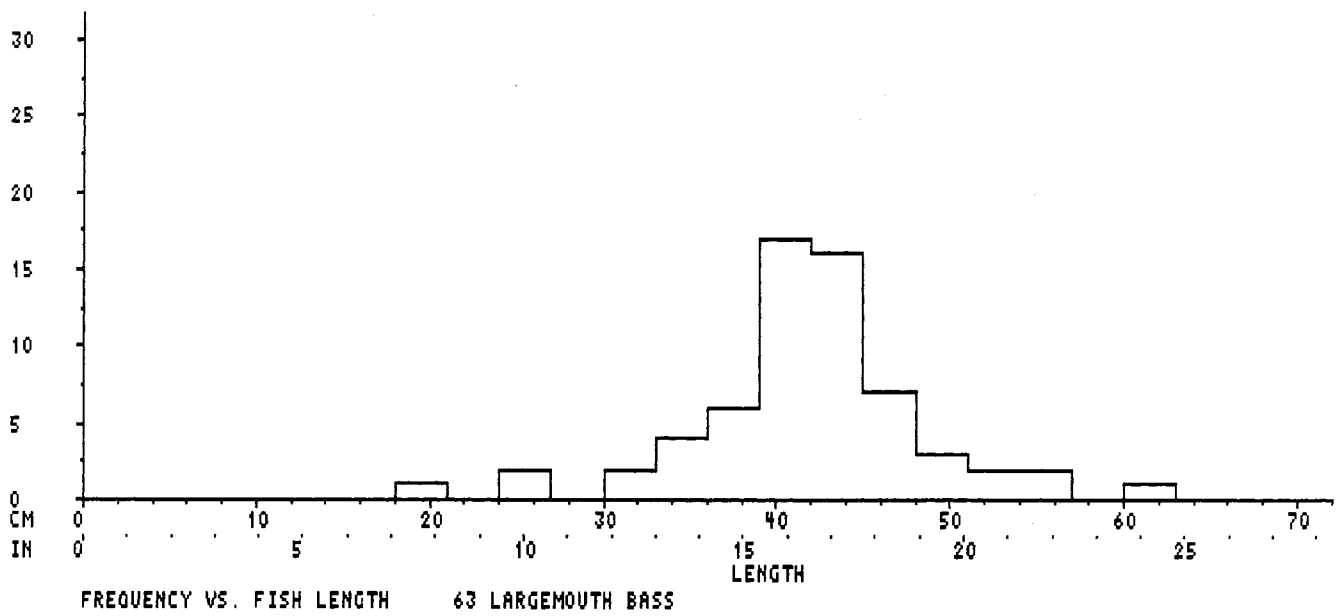


Figure 7. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

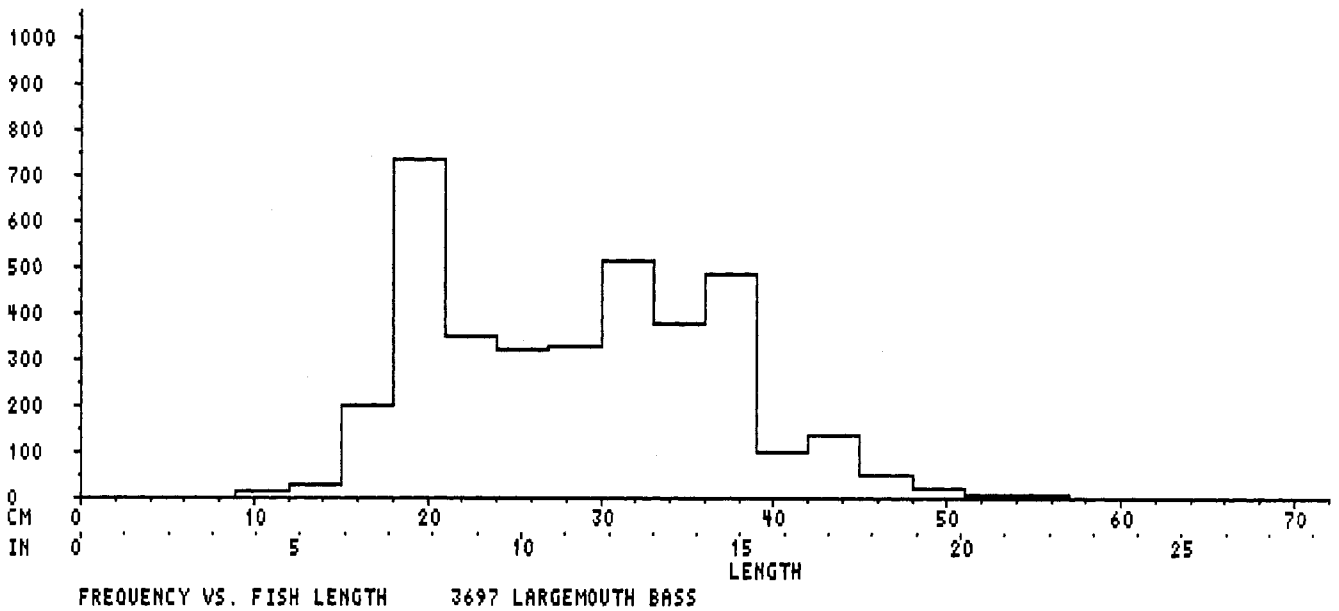


Figure 8. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 7.

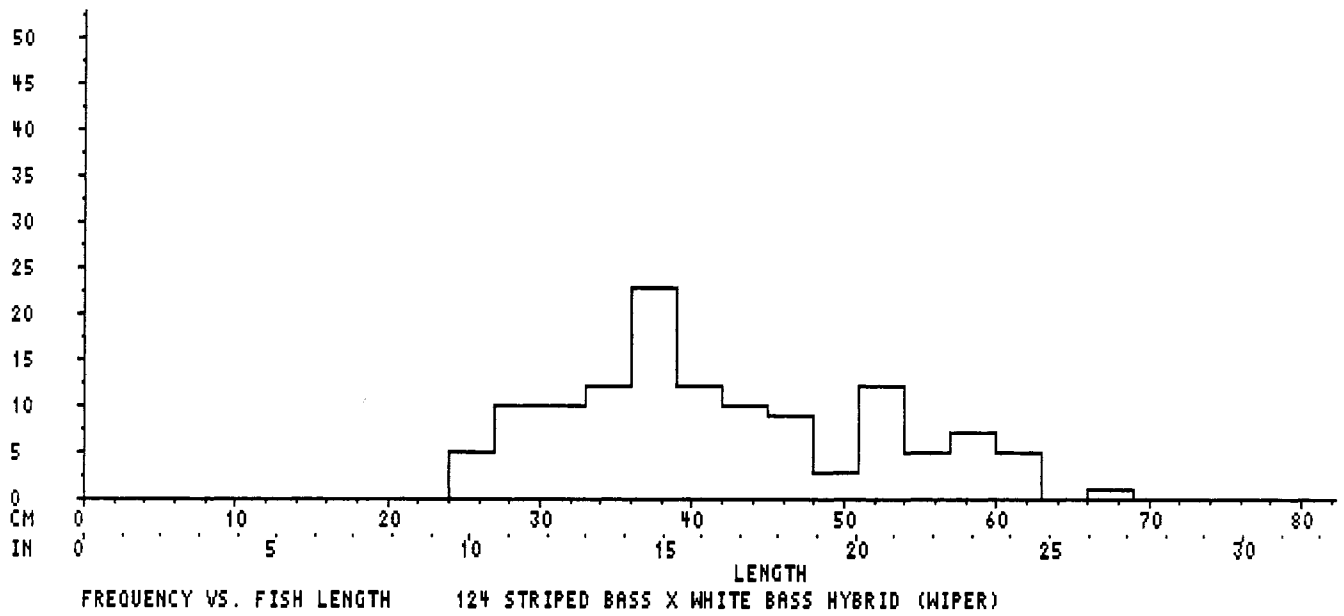


Figure 9. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid harvested by all anglers.

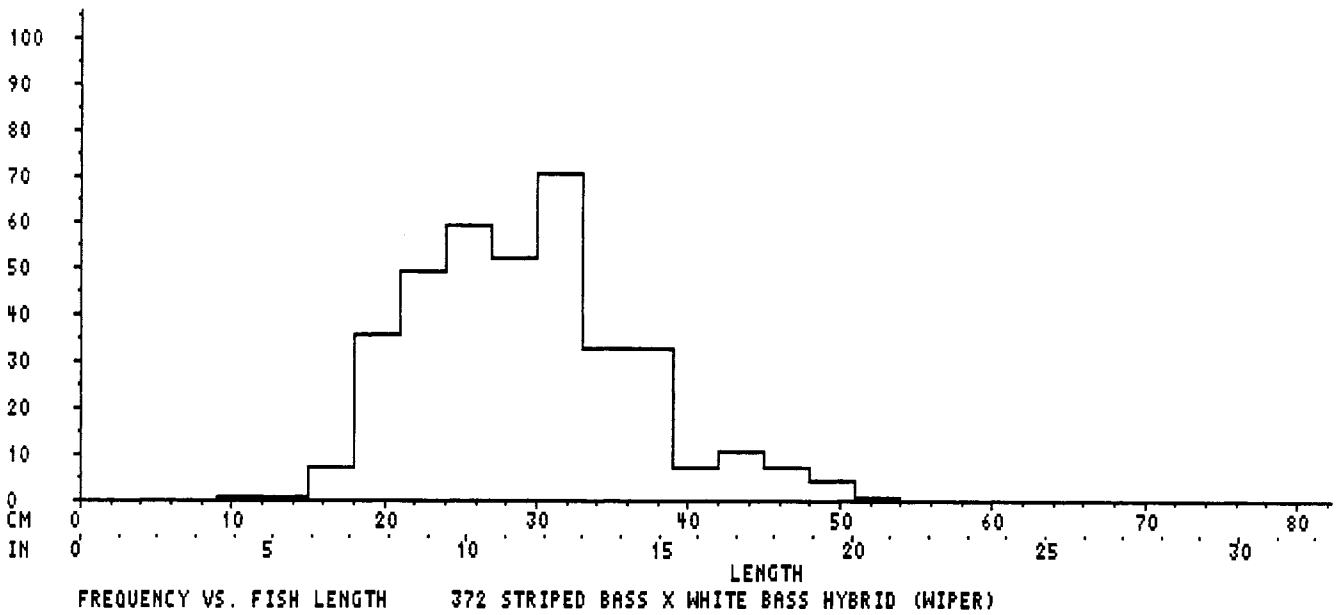


Figure 10. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid released by all anglers. Note the difference in scale from Figure 9.

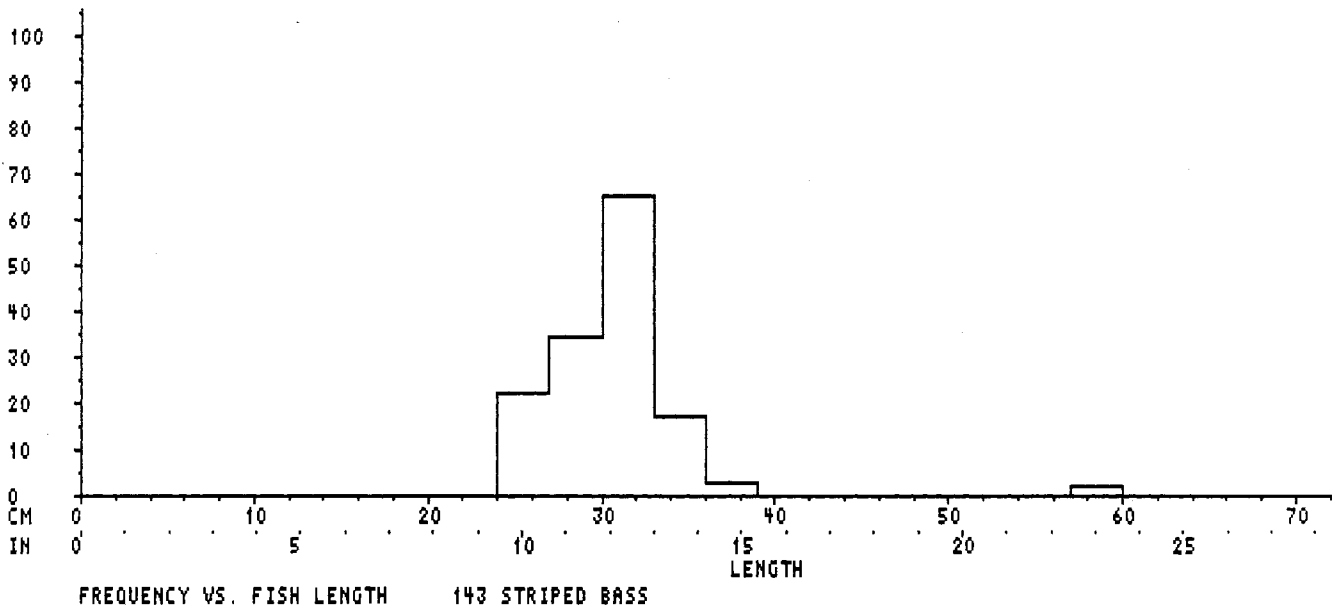


Figure 11. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass harvested by all anglers.

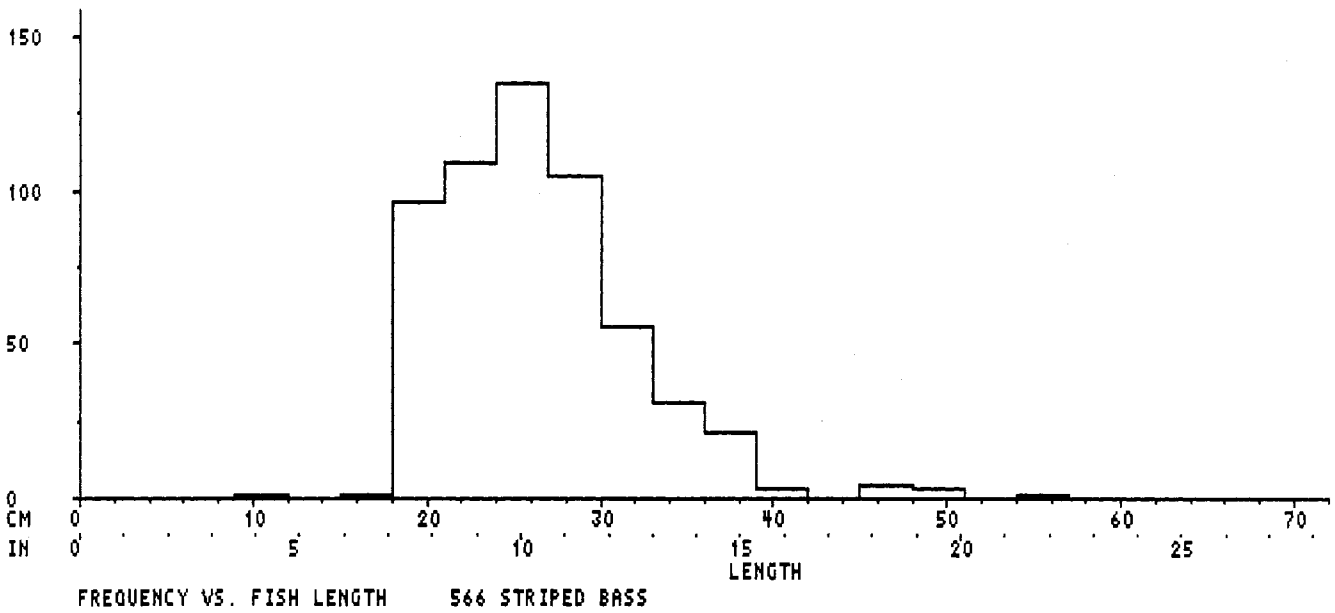


Figure 12. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass released by all anglers. Note the difference in scale from Figure 11.

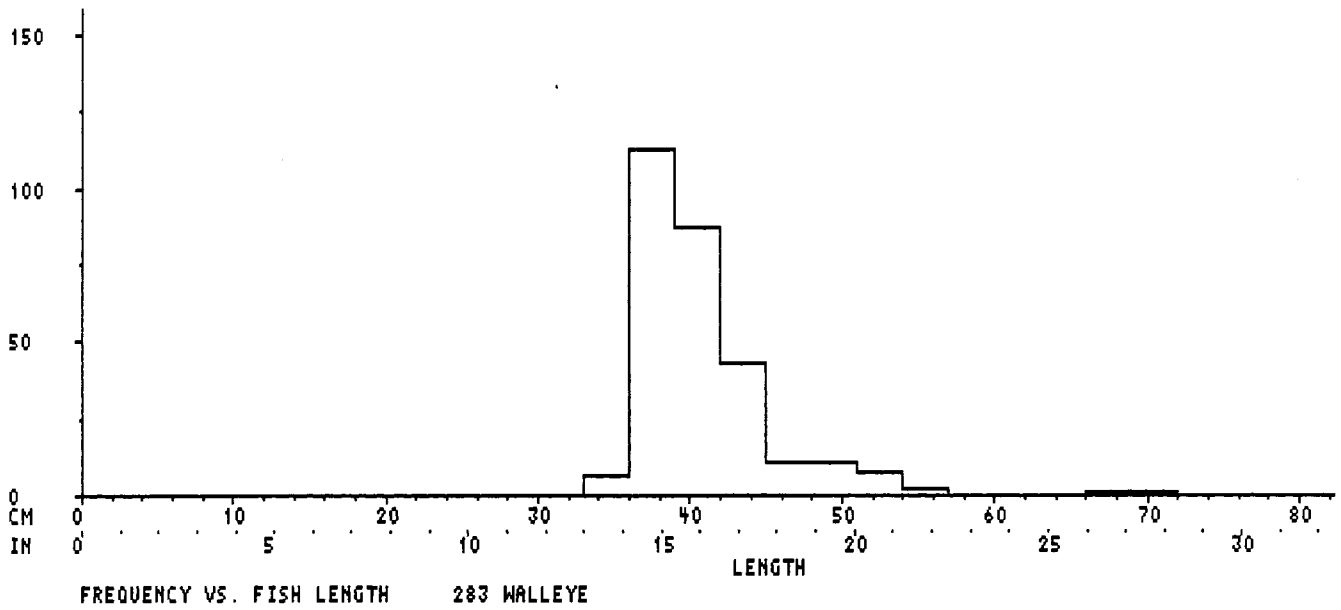


Figure 13. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of walleye harvested by all anglers.

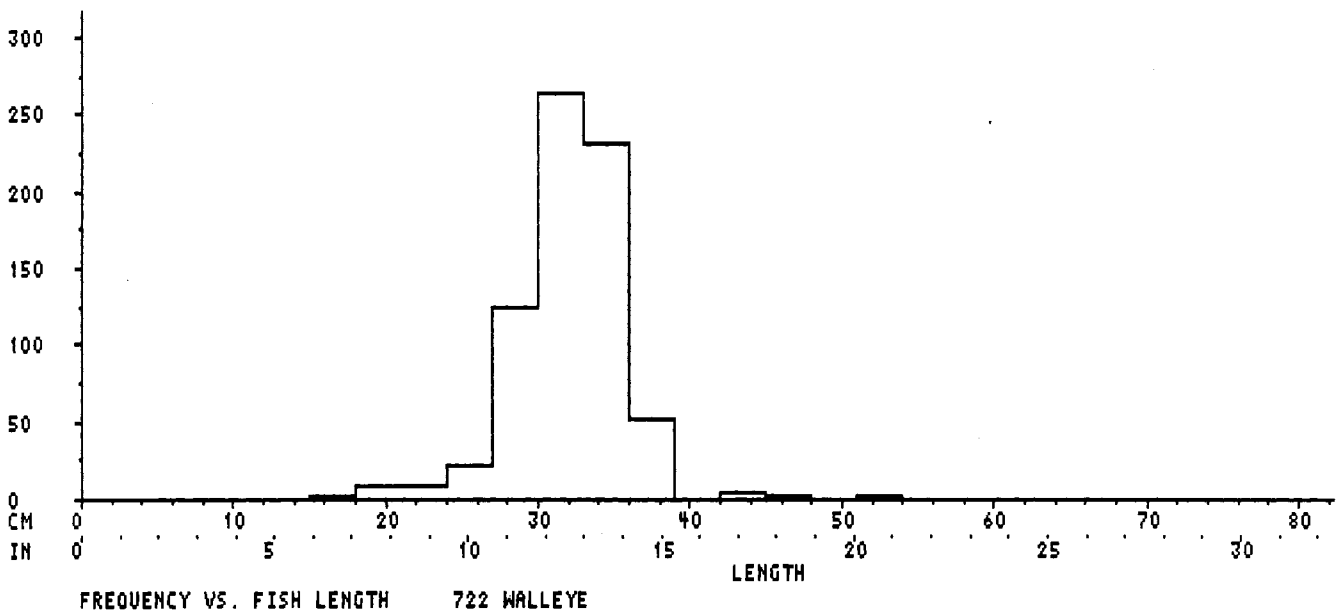


Figure 14. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of walleye released by all anglers. Note the difference in scale from Figure 13.

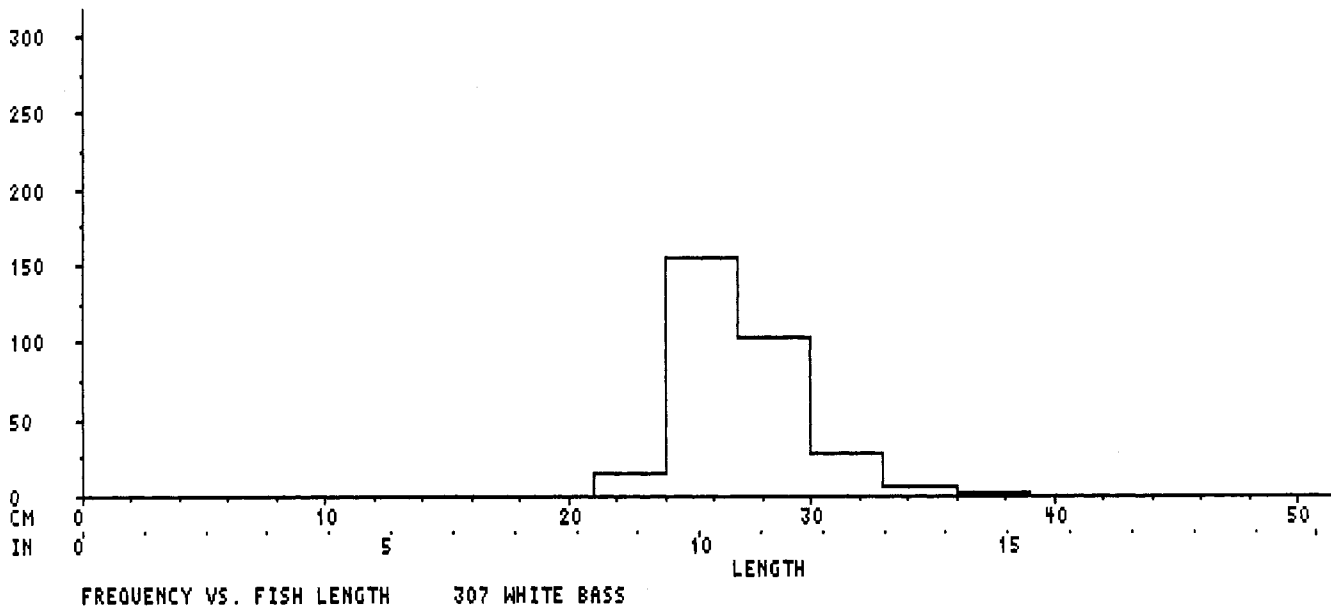


Figure 15. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass harvested by all anglers.

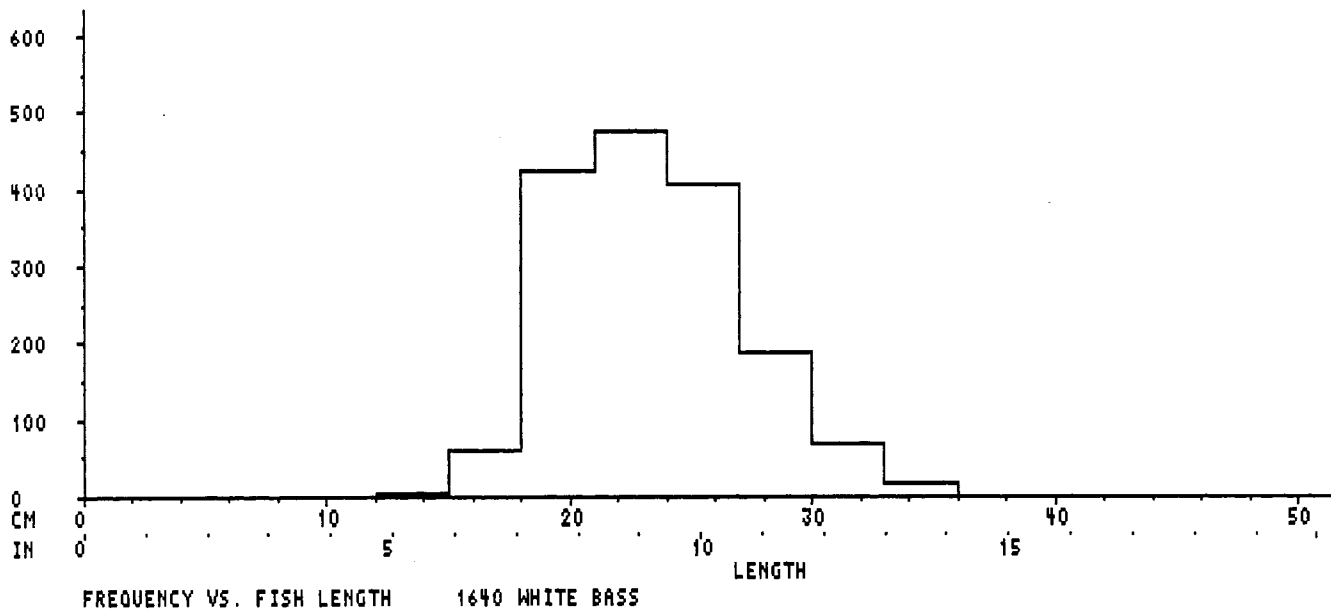


Figure 16. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass released by all anglers. Note the difference in scale from Figure 15.

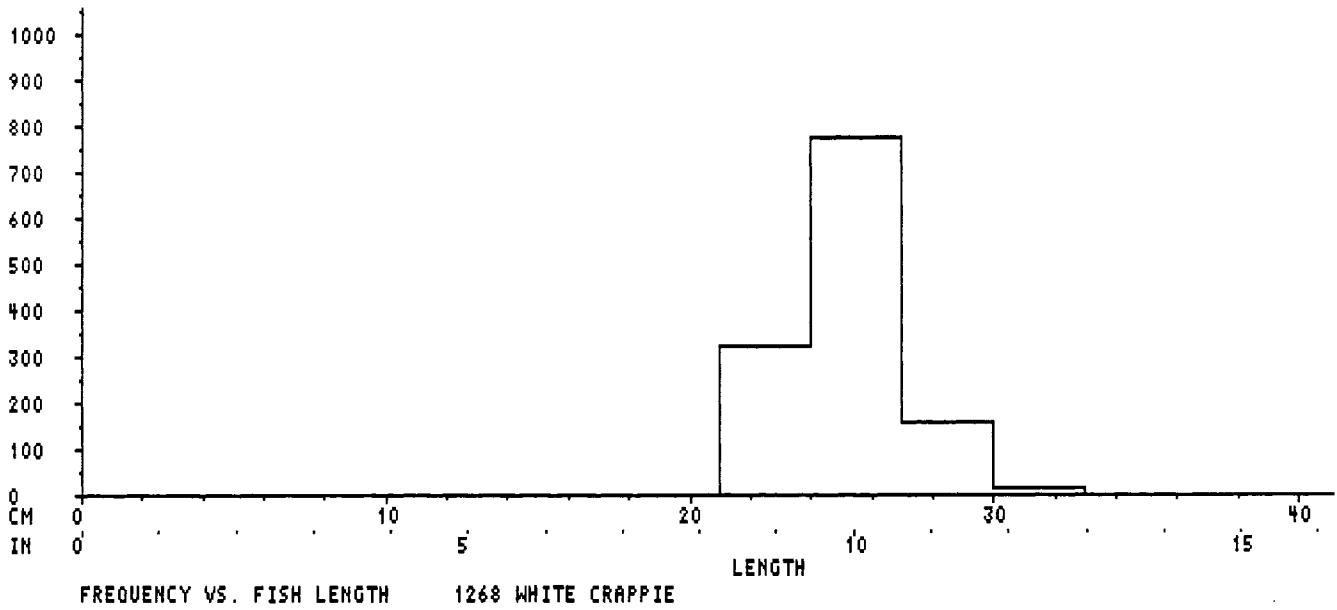


Figure 17. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

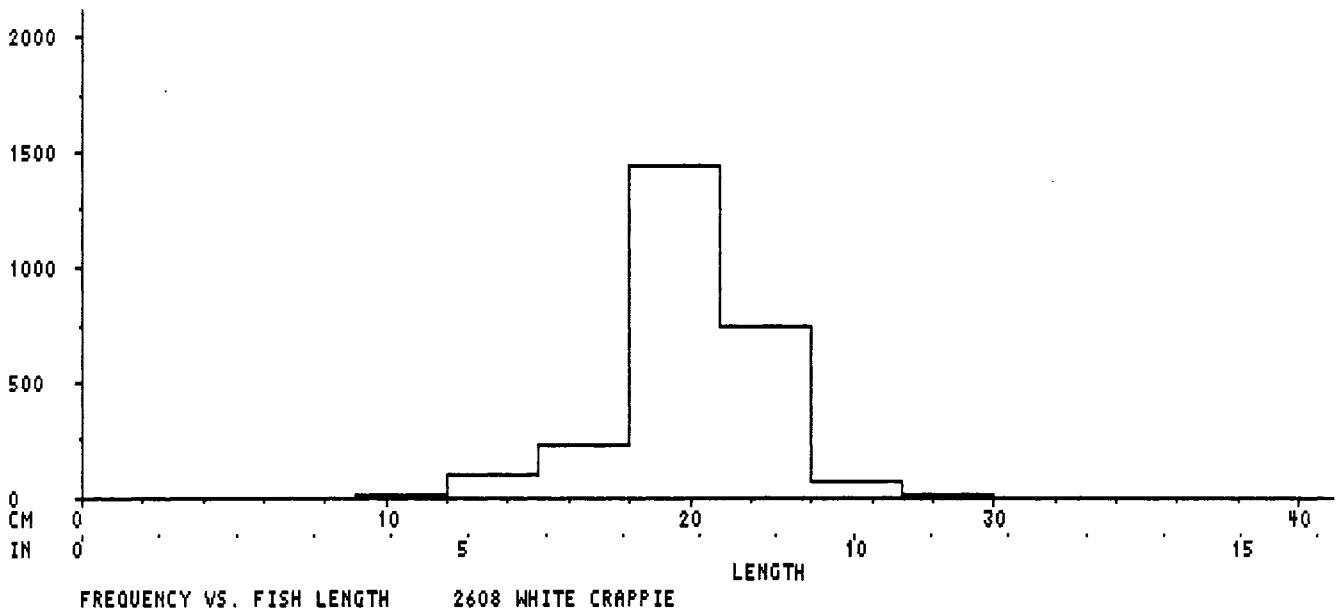


Figure 18. Clinton Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 17.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 CLINTON TAILWATER
 6 ACRES
 REGION 3, DISTRICT 10

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 283/693 = 40.8%

NUMBER OF INTERVIEWS: 1251

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					
	HOLIDAY	13	0-43 (240%)	2	0-7 (240%)	29%
	TOTAL	13	0-43 (240%)	2	0-7 (240%)	29%
SHORE	WEEKDAY	6469	5619-7318 (13%)	1113	967-1260 (13%)	20%
	HOLIDAY	8418	7686-9150 (9%)	1449	1323-1575 (9%)	43%
	TOTAL	14887	13765-16008 (8%)	2562	2369-2755 (8%)	33%
BOAT & SHORE	WEEKDAY	6469	5619-7318 (13%)	1113	967-1260 (13%)	20%
	HOLIDAY	8430	7698-9163 (9%)	1451	1325-1577 (9%)	43%
	TOTAL	14899	13777-16021 (8%)	2564	2371-2758 (8%)	33%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2391	1884-2898	(21%)	.057	.041-.073 (28%)	1016.94	411.55	All species
23	3-43	(86%)	.001	.000-.001 (103%)	9.73	3.94	Bigmouth buffalo
1	0-4	(245%)	.000	.000-.000 (236%)	0.48	0.19	Black bullhead
4	0-12	(175%)	.000	.000-.000 (221%)	1.78	0.72	Black crappie
330	133-527	(60%)	.008	.001-.015 (84%)	140.31	56.78	Bluegill
123	69-177	(44%)	.002	.001-.004 (52%)	52.37	21.20	Carp
728	521-936	(28%)	.023	.010-.037 (59%)	309.73	125.34	Channel catfish
25	4-46	(84%)	.001	.000-.001 (101%)	10.65	4.31	Flathead catfish
625	443-806	(29%)	.011	.007-.016 (37%)	265.65	107.51	Freshwater drum
9	0-21	(121%)	.000	.000-.000 (120%)	3.97	1.61	Green sunfish
				**** NOT RECORDED ****			Gizzard shad
5	0-13	(149%)	.000	.000-.001 (198%)	2.26	0.91	Largemouth bass
5	0-24	(430%)	.000	.000-.000 (430%)	1.94	0.79	River carpsucker
193	99-288	(49%)	.005	.003-.008 (46%)	82.26	33.29	Striped bass hybrid
				**** NOT RECORDED ****			Shortnose gar
5	0-24	(430%)	.000	.000-.000 (430%)	1.94	0.79	Shorthead redhorse
				**** NOT RECORDED ****			Smallmouth bass
14	0-38	(161%)	.000	.000-.000 (111%)	6.13	2.48	Striped bass
4	0-10	(173%)	.000	.000-.000 (226%)	1.62	0.65	Tiger muskie
6	0-15	(137%)	.000	.000-.000 (171%)	2.75	1.11	Walleye
248	8-489	(97%)	.004	.000-.008 (102%)	105.66	42.76	White bass
31	0-62	(99%)	.000	.000-.001 (92%)	13.27	5.37	White crappie
5	0-13	(157%)	.000	.000-.000 (170%)	2.11	0.85	White sucker
				**** 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
883	702-1065	(21%)	.023	.017-.030 (28%)	375.65	0.369	All species
67	2-131	(96%)	.001	.000-.003 (134%)	28.38	2.916	Bigmouth buffalo
0	0-0	(245%)	.000	.000-.000 (245%)	0.05	0.107	Black bullhead
1	0-2	(172%)	.000	.000-.000 (219%)	0.37	0.209	Black crappie
28	1-56	(96%)	.001	.000-.002 (124%)	12.11	0.086	Bluegill
51	26-77	(50%)	.001	.000-.002 (65%)	21.87	0.418	Carp
196	139-253	(29%)	.007	.002-.012 (76%)	83.43	0.269	Channel catfish
26	0-53	(103%)	.000	.000-.001 (135%)	11.06	1.038	Flathead catfish
200	128-272	(36%)	.003	.002-.004 (34%)	85.06	0.320	Freshwater drum
1	0-1	(127%)	.000	.000-.000 (123%)	0.26	0.064	Green sunfish
				**** NOT RECORDED ****			Gizzard shad
4	0-12	(203%)	.000	.000-.000 (178%)	1.74	0.769	Largemouth bass
6	0-79	(1271%)	.000	.000-.001 (1271%)	2.45	1.260	River carpsucker
227	136-319	(40%)	.008	.004-.012 (50%)	96.71	1.176	Striped bass hybrid
				**** NOT RECORDED ****			Shortnose gar
2	0-13	(430%)	.000	.000-.000 (430%)	1.01	0.521	Shorthead redhorse
				**** NOT RECORDED ****			Smallmouth bass
5	0-15	(182%)	.000	.000-.000 (131%)	2.28	0.372	Striped bass
17	0-47	(179%)	.000	.000-.001 (235%)	7.22	4.466	Tiger muskie
2	0-6	(159%)	.000	.000-.000 (232%)	1.05	0.381	Walleye
41	5-77	(87%)	.001	.000-.001 (94%)	17.43	0.165	White bass
4	0-8	(98%)	.000	.000-.000 (124%)	1.80	0.136	White crappie
3	0-9	(187%)	.000	.000-.000 (207%)	1.37	0.652	White sucker
				**** 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
1947	1547-2347	(21%)	.051	.037-.066 (28%)	335.15	0.814	All species
147	5-289	(96%)	.003	.000-.006 (134%)	25.32	6.429	Bigmouth buffalo
0	0-1	(236%)	.000	.000-.000 (245%)	0.05	0.235	Black bullhead
2	0-5	(172%)	.000	.000-.000 (219%)	0.33	0.460	Black crappie
63	3-123	(96%)	.002	.000-.004 (124%)	10.80	0.190	Bluegill
113	57-170	(50%)	.002	.001-.004 (65%)	19.52	0.921	Carp
432	307-558	(29%)	.015	.004-.027 (76%)	74.44	0.594	Channel catfish
57	0-116	(103%)	.001	.000-.002 (135%)	9.87	2.289	Flathead catfish
441	283-599	(36%)	.007	.005-.009 (34%)	75.89	0.706	Freshwater drum
1	0-3	(127%)	.000	.000-.000 (123%)	0.23	0.142	Green sunfish
			****	NOT RECORDED ****			Gizzard shad
9	0-27	(203%)	.000	.000-.001 (178%)	1.55	1.696	Largemouth bass
13	0-67	(430%)	.000	.000-.002 (1271%)	2.18	2.779	River carpsucker
501	299-703	(40%)	.018	.009-.027 (50%)	86.29	2.592	Striped bass hybrid
			****	NOT RECORDED ****			Shorthead gar
5	0-72	(1271%)	.000	.000-.000 (430%)	0.90	1.148	Shorthead redhorse
			****	NOT RECORDED ****			Smallmouth bass
12	0-33	(182%)	.000	.000-.000 (131%)	2.03	0.820	Striped bass
37	0-104	(179%)	.001	.000-.003 (235%)	6.44	9.847	Tiger muskie
5	0-14	(159%)	.000	.000-.000 (232%)	0.93	0.839	Walleye
90	12-169	(87%)	.002	.000-.003 (94%)	15.55	0.364	White bass
9	0-19	(98%)	.000	.000-.000 (124%)	1.61	0.300	White crappie
7	0-20	(187%)	.000	.000-.000 (207%)	1.22	1.437	White sucker
			****	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
10170	8674-11665 (15%)		.309	.254-.363 (18%)	4325.16	1750.37	All species
178	114-241 (36%)		.009	.002-.015 (72%)	75.62	30.60	Bigmouth buffalo
28	0-65 (134%)		.001	.000-.002 (131%)	11.78	4.77	Black bullhead
430	67-793 (84%)		.032	.001-.062 (97%)	182.77	73.97	Black crappie
2314	1615-3013 (30%)		.058	.042-.074 (28%)	984.28	398.33	Bluegill
397	288-506 (27%)		.012	.007-.018 (46%)	168.84	68.33	Carp
2387	1834-2940 (23%)		.076	.049-.104 (36%)	1015.21	410.85	Channel catfish
31	8-54 (73%)		.001	.000-.002 (98%)	13.37	5.41	Flathead catfish
2452	1948-2955 (21%)		.060	.046-.073 (22%)	1042.68	421.97	Freshwater drum
44	0-98 (125%)		.003	.000-.008 (202%)	18.51	7.49	Green sunfish
1	0-4 (245%)		.000	.000-.000 (236%)	0.48	0.19	Gizzard shad
149	85-212 (43%)		.005	.002-.008 (68%)	63.23	25.59	Largemouth bass
9	0-25 (175%)		.001	.000-.002 (233%)	3.93	1.59	River carpsucker
452	261-643 (42%)		.014	.008-.020 (44%)	192.16	77.77	Striped bass hybrid
173	92-253 (47%)		.007	.002-.011 (69%)	73.51	29.75	Shortnose gar
5	0-24 (430%)		.000	.000-.000 (430%)	1.94	0.79	Shorthead redhorse
11	0-49 (351%)		.000	.000-.000 (341%)	4.57	1.85	Smallmouth bass
91	15-168 (84%)		.003	.000-.008 (165%)	38.78	15.69	Striped bass
40	2-78 (95%)		.002	.000-.004 (93%)	17.13	6.93	Tiger muskie
18	3-33 (82%)		.000	.000-.001 (83%)	7.71	3.12	Walleye
662	197-1126 (70%)		.016	.002-.031 (87%)	281.35	113.86	White bass
250	91-408 (64%)		.008	.000-.019 (137%)	106.12	42.95	White crappie
11	0-22 (99%)		.000	.000-.001 (137%)	4.63	1.87	White sucker
27	0-74 (177%)		.000	.000-.001 (147%)	11.42	4.62	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
2462	2124-2801	(14%)	.087	.069-.104 (20%)	1047.30	0.242	All species
395	256-535	(35%)	.017	.007-.027 (57%)	168.19	2.224	Bigmouth buffalo
2	0-5	(172%)	.000	.000-.000 (162%)	0.84	0.072	Black bullhead
36	3-68	(92%)	.002	.000-.005 (133%)	15.14	0.083	Black crappie
112	78-147	(31%)	.003	.002-.004 (41%)	47.71	0.048	Bluegill
170	118-222	(31%)	.005	.003-.008 (44%)	72.35	0.428	Carp
334	257-412	(23%)	.011	.006-.016 (49%)	142.22	0.140	Channel catfish
27	0-54	(100%)	.001	.000-.001 (117%)	11.41	0.854	Flathead catfish
536	407-665	(24%)	.012	.009-.016 (28%)	228.08	0.219	Freshwater drum
2	0-3	(114%)	.000	.000-.000 (195%)	0.68	0.037	Green sunfish
0	0-0	(245%)	.000	.000-.000 (236%)	0.04	0.084	Gizzard shad
57	16-98	(73%)	.002	.000-.005 (136%)	24.21	0.383	Largemouth bass
21	0-59	(186%)	.002	.000-.008 (251%)	8.73	2.223	River carpsucker
397	252-542	(36%)	.017	.008-.025 (51%)	168.84	0.879	Striped bass hybrid
61	28-93	(54%)	.003	.000-.005 (96%)	25.77	0.351	Shortnose gar
2	0-13	(430%)	.000	.000-.000 (430%)	1.01	0.521	Shorthead redhorse
3	0-9	(236%)	.000	.000-.000 (231%)	1.14	0.249	Smallmouth bass
56	0-111	(100%)	.002	.000-.007 (182%)	23.61	0.609	Striped bass
107	3-210	(97%)	.005	.000-.012 (135%)	45.43	2.653	Tiger muskie
6	0-11	(92%)	.000	.000-.000 (97%)	2.42	0.314	Walleye
116	25-208	(78%)	.003	.001-.004 (76%)	49.52	0.176	White bass
16	7-24	(54%)	.000	.000-.001 (109%)	6.63	0.062	White crappie
4	0-10	(146%)	.000	.000-.000 (124%)	1.76	0.380	White sucker
4	0-11	(196%)	.000	.000-.000 (155%)	1.57	0.137	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
5429	4682-6175	(14%)	.191	.152-.230 (20%)	934.40	0.534	All species
872	564-1180	(35%)	.039	.016-.061 (57%)	150.06	4.903	Bigmouth buffalo
4	0-12	(172%)	.000	.000-.000 (162%)	0.75	0.158	Black bullhead
78	6-151	(92%)	.005	.000-.011 (133%)	13.51	0.183	Black crappie
247	171-324	(31%)	.007	.004-.009 (41%)	42.57	0.107	Bluegill
375	260-490	(31%)	.012	.007-.017 (44%)	64.55	0.945	Carp
737	567-907	(23%)	.024	.012-.036 (49%)	126.89	0.309	Channel catfish
59	0-118	(100%)	.001	.000-.002 (117%)	10.18	1.882	Flathead catfish
1182	898-1466	(24%)	.027	.019-.034 (28%)	203.50	0.482	Freshwater drum
4	0-8	(114%)	.000	.000-.001 (195%)	0.61	0.081	Green sunfish
0	0-1	(245%)	.000	.000-.000 (236%)	0.04	0.186	Gizzard shad
125	34-217	(73%)	.005	.000-.012 (136%)	21.60	0.844	Largemouth bass
45	0-129	(186%)	.005	.000-.018 (251%)	7.79	4.901	River carpsucker
875	556-1195	(36%)	.037	.018-.056 (51%)	150.64	1.937	Striped bass hybrid
134	61-206	(54%)	.006	.000-.012 (96%)	22.99	0.773	Shortnose gar
5	0-72	(1271%)	.000	.000-.000 (430%)	0.90	1.148	Shorthead redhorse
6	0-20	(236%)	.000	.000-.000 (231%)	1.02	0.550	Smallmouth bass
122	1-244	(100%)	.005	.000-.014 (182%)	21.06	1.342	Striped bass
236	7-464	(97%)	.011	.000-.026 (135%)	40.53	5.849	Tiger muskie
13	1-24	(92%)	.000	.000-.000 (97%)	2.16	0.693	Walleye
257	56-458	(78%)	.006	.001-.010 (76%)	44.18	0.388	White bass
34	16-53	(54%)	.001	.000-.002 (109%)	5.92	0.138	White crappie
9	0-22	(146%)	.000	.000-.001 (124%)	1.57	0.838	White sucker
8	0-24	(196%)	.000	.000-.000 (155%)	1.40	0.302	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	2.7	*** undefined ***	2.7	2.7	1
SHORE	2.4	2.3-2.5 (5%)	0.2	10.0	719
BOAT & SHORE	2.4	2.3-2.5 (5%)	0.2	10.0	720
MILES TRAVELED	28.2	27.0-29.5 (4%)	2	180	982
SUCCESS RATING (1-10)	2.7	2.5-2.8 (5%)	1	10	975

*194 samples were from split interviews of completed trips.

69.6% of all 1035 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 6 out of 1035 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	2									
SHORE INTERVIEWS	347	394	180	84	16	6	4		2	

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

588 (56.8%)	ANY	All species
8 (0.8%)	BLC	Black crappie
12 (1.2%)	BLG	Bluegill
4 (0.4%)	CAP	Carp
8 (0.8%)	CAT	Unidentified catfish
152 (14.7%)	CCF	Channel catfish
4 (0.4%)	CRP	Crappie spp.
1 (0.1%)	FRD	Freshwater drum
23 (2.2%)	LMB	Largemouth bass
139 (13.4%)	SBH	Striped bass hybrid (Wiper)
2 (0.2%)	SMB	Smallmouth bass
33 (3.2%)	STB	Striped bass
11 (1.1%)	TGM	Tiger muskie
41 (4.0%)	WAE	Walleye
5 (0.5%)	WHB	White bass
4 (0.4%)	WHC	White crappie

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bigmouth buffalo																
HARVEST	1504	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1476	30	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1506	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1484	7	8	1	3	-	-	-	-	-	-	-	-	-	3	1
Bluegill																
HARVEST	1467	15	16	2	3	-	2	2	-	-	-	-	-	-	-	-
RELEASE	1285	117	62	23	12	6	-	-	-	-	-	-	1	-	-	1
Carp																
HARVEST	1478	26	2	-	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1461	40	4	2	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	1399	73	24	5	3	1	2	-	-	-	-	-	-	-	-	-
RELEASE	1274	164	33	19	8	5	1	-	1	-	1	-	-	-	-	1
Flathead catfish																
HARVEST	1502	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1503	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	1380	96	20	6	4	-	-	1	-	-	-	-	-	-	-	-
RELEASE	1197	218	52	27	5	2	3	1	-	-	2	-	-	-	-	-
Green sunfish																
HARVEST	1507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1505	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1504	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1484	21	2	-	-	-	-	-	-	-	-	-	-	-	-	-
River carpsucker																
HARVEST	1507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1506	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass hybrid (Wiper)																
HARVEST	1471	25	9	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1473	20	12	2	-	-	-	-	-	-	-	-	-	-	-	-
Shortnose gar																
HARVEST	1507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1470	32	4	1	-	-	-	-	-	-	-	-	-	-	-	-

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Smallmouth bass																
HARVEST 1507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1505	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST 1503	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1498	5	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tiger muskie																
HARVEST 1504	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1496	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST 1505	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1505	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST 1492	12	2	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1496	7	-	-	2	-	-	-	-	-	-	-	-	-	-	-	2
White crappie																
HARVEST 1497	8	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1498	2	-	2	-	-	-	1	-	2	-	1	-	-	-	-	1
White sucker																
HARVEST 1506	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1506	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST 1507	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE 1504	2	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-

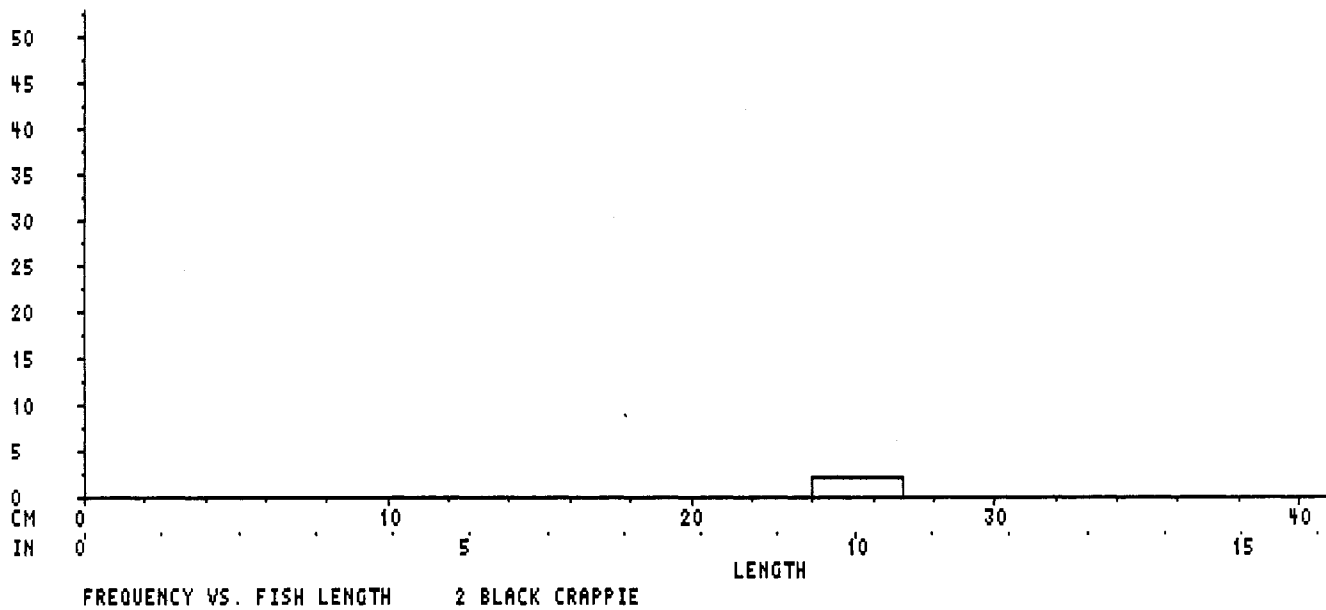


Figure 1. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

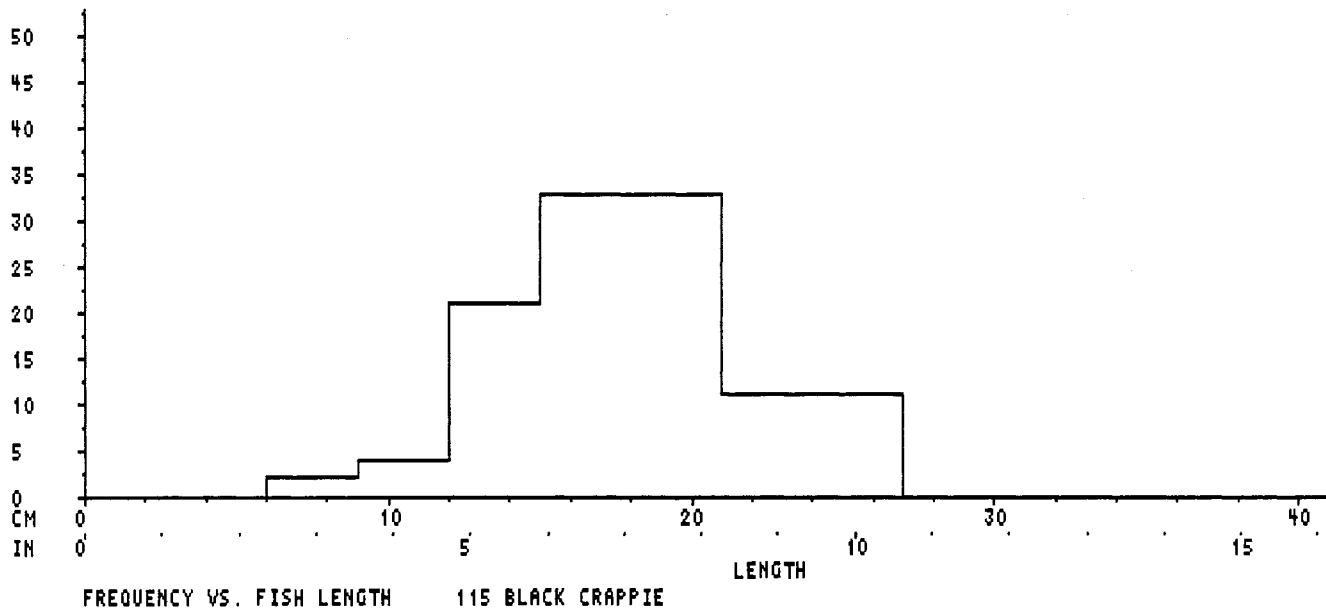


Figure 2. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

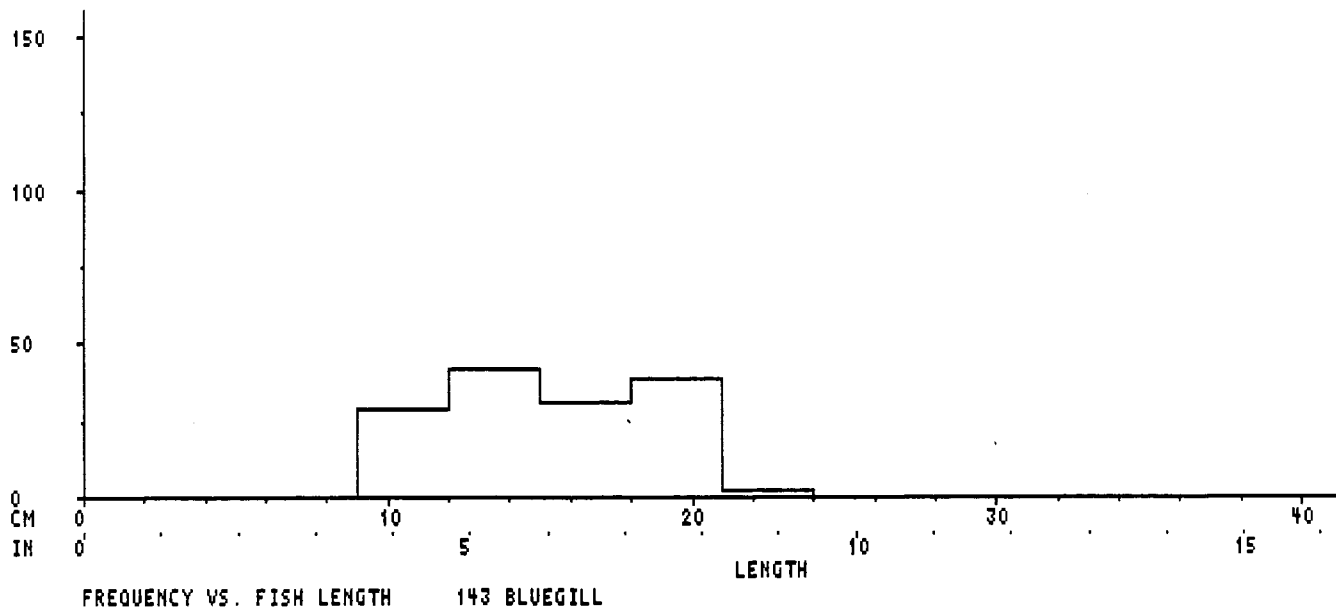


Figure 3. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

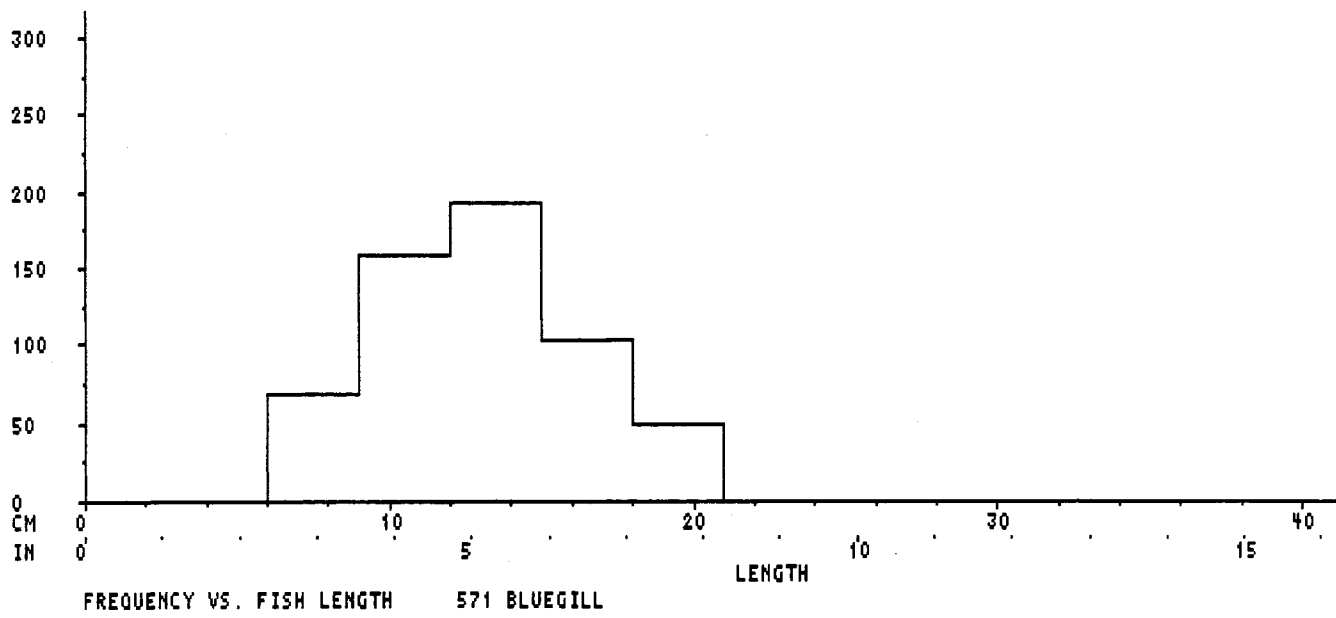


Figure 4. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

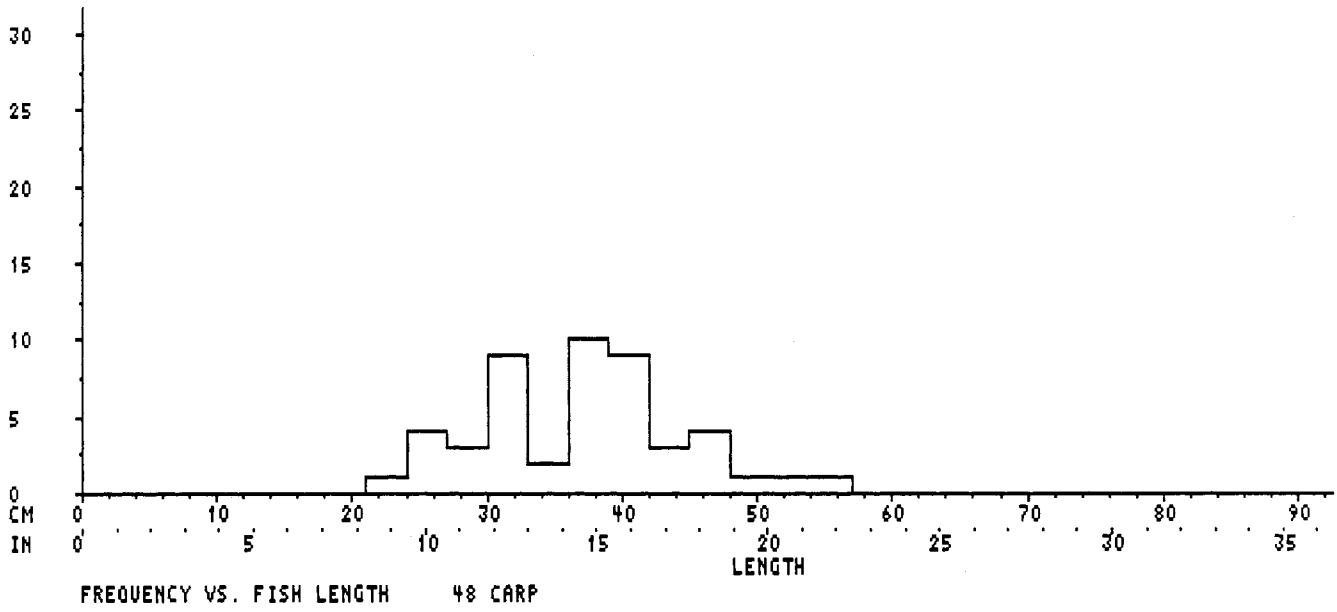


Figure 5. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

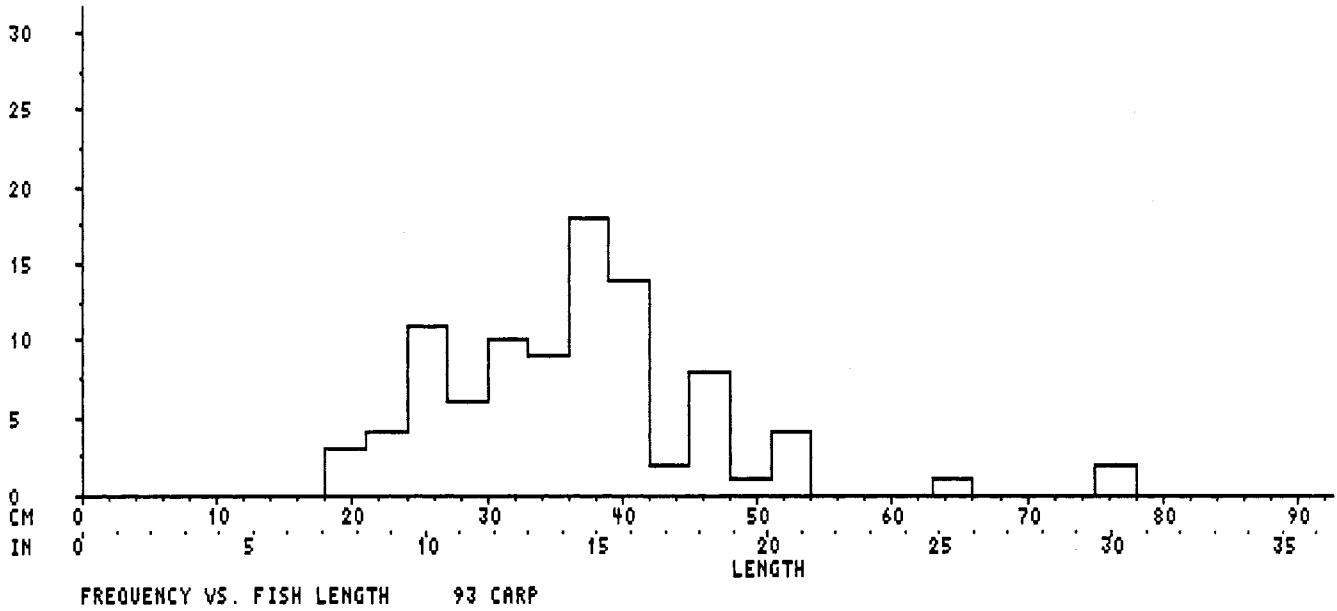


Figure 6. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

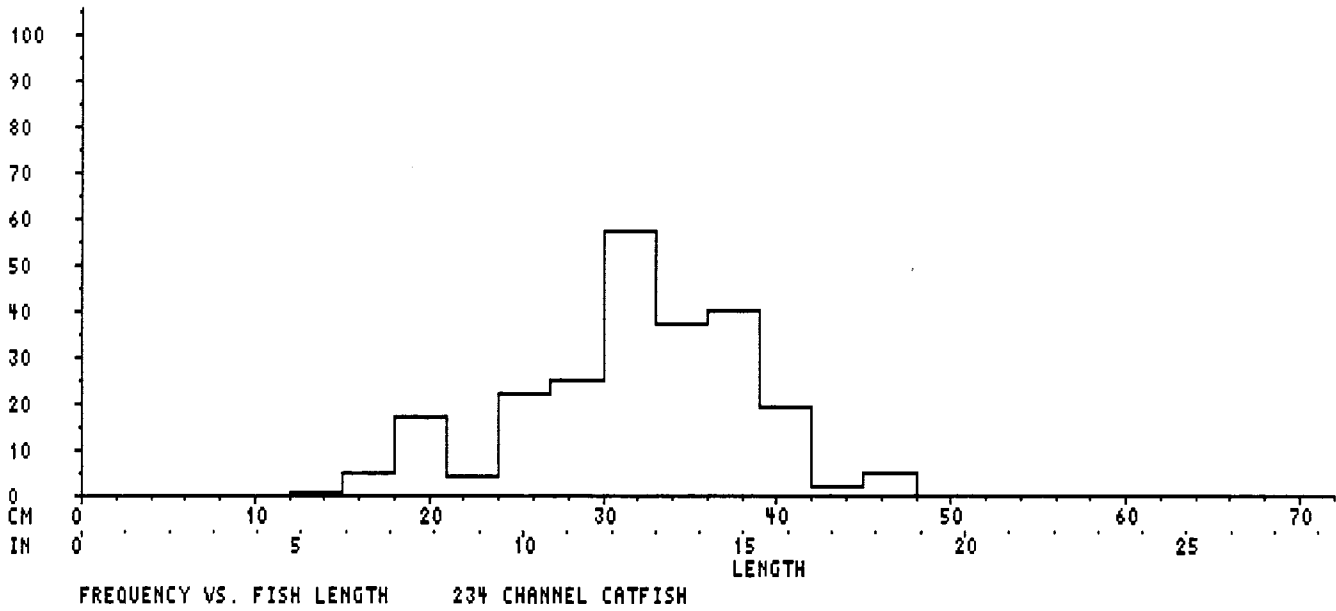


Figure 7. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

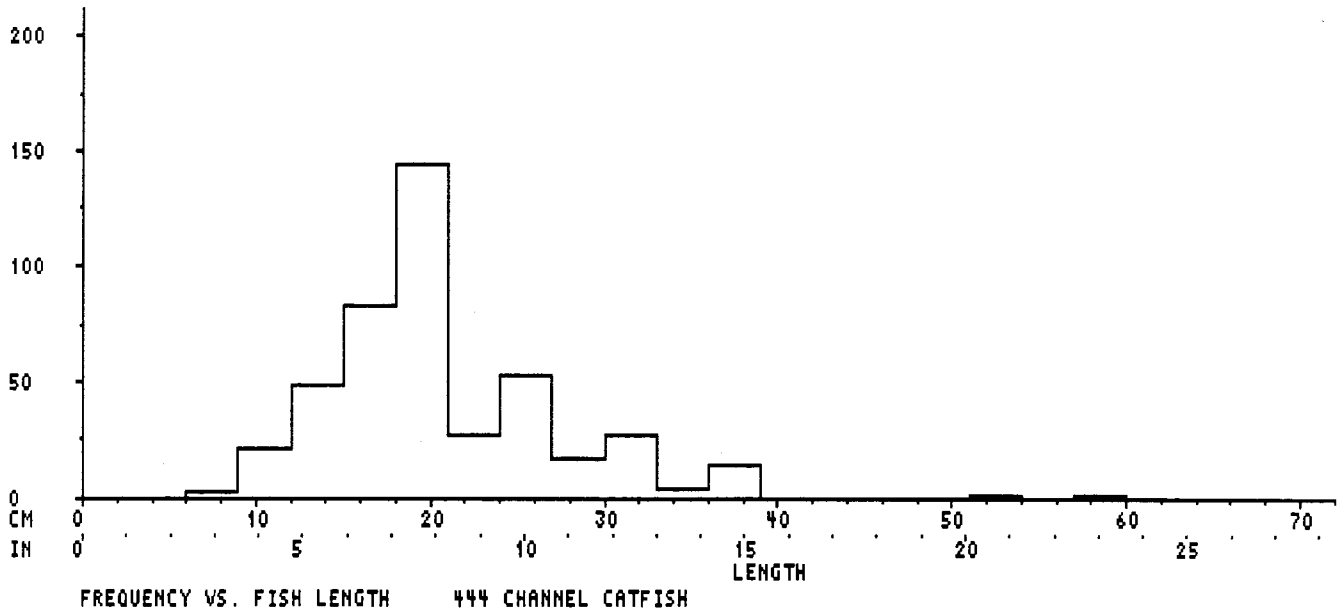


Figure 8. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers. Note the difference in scale from Figure 7.

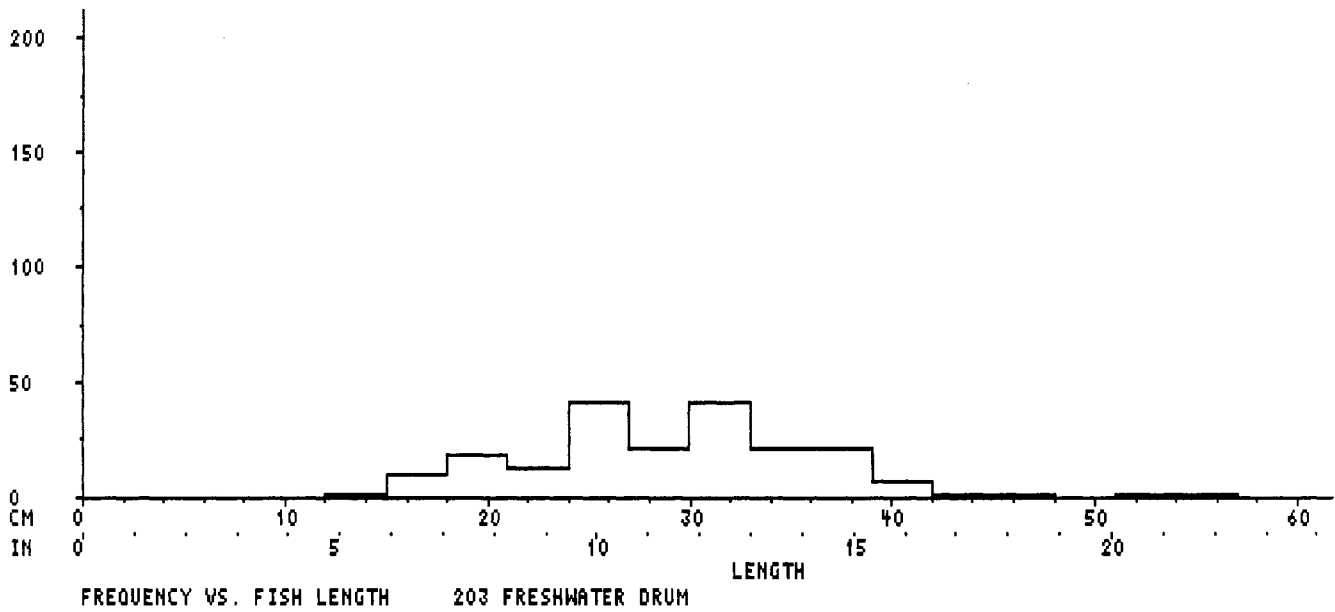


Figure 9. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum harvested by all anglers.

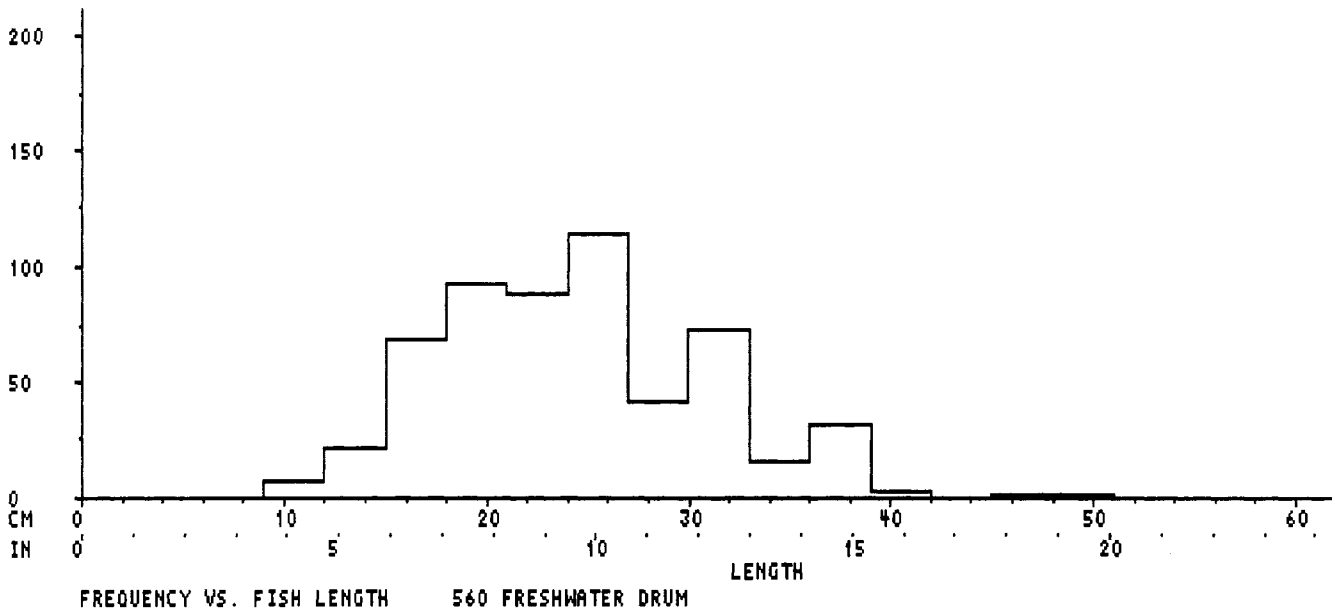


Figure 10. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum released by all anglers.

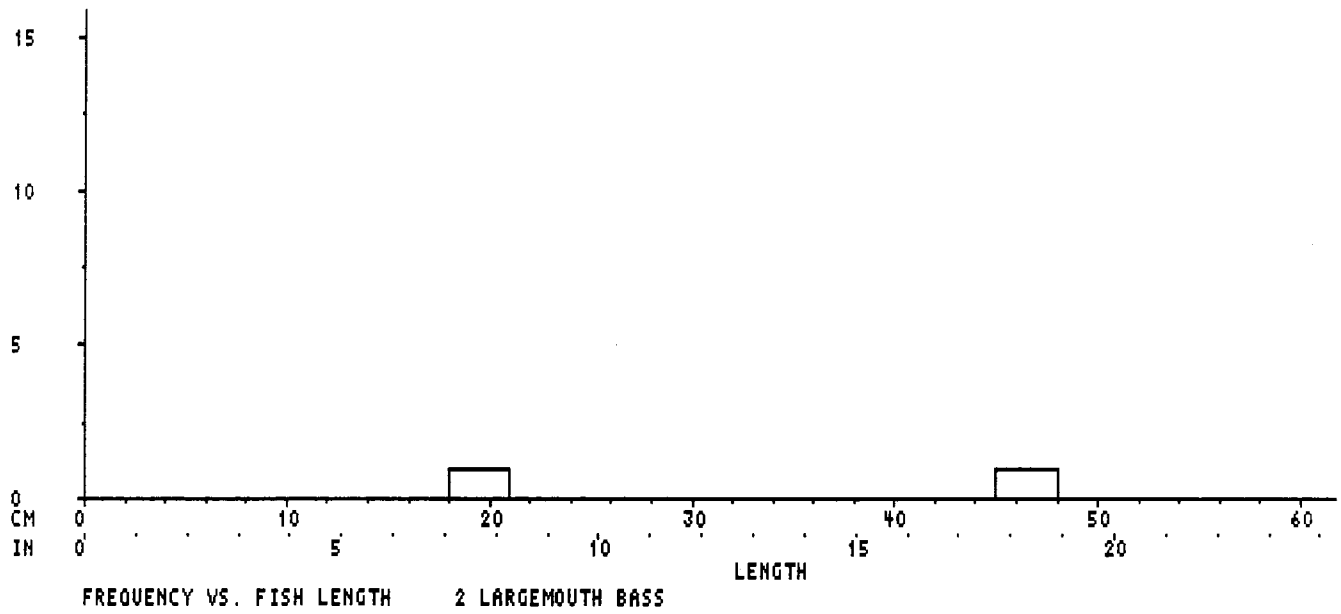


Figure 11. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

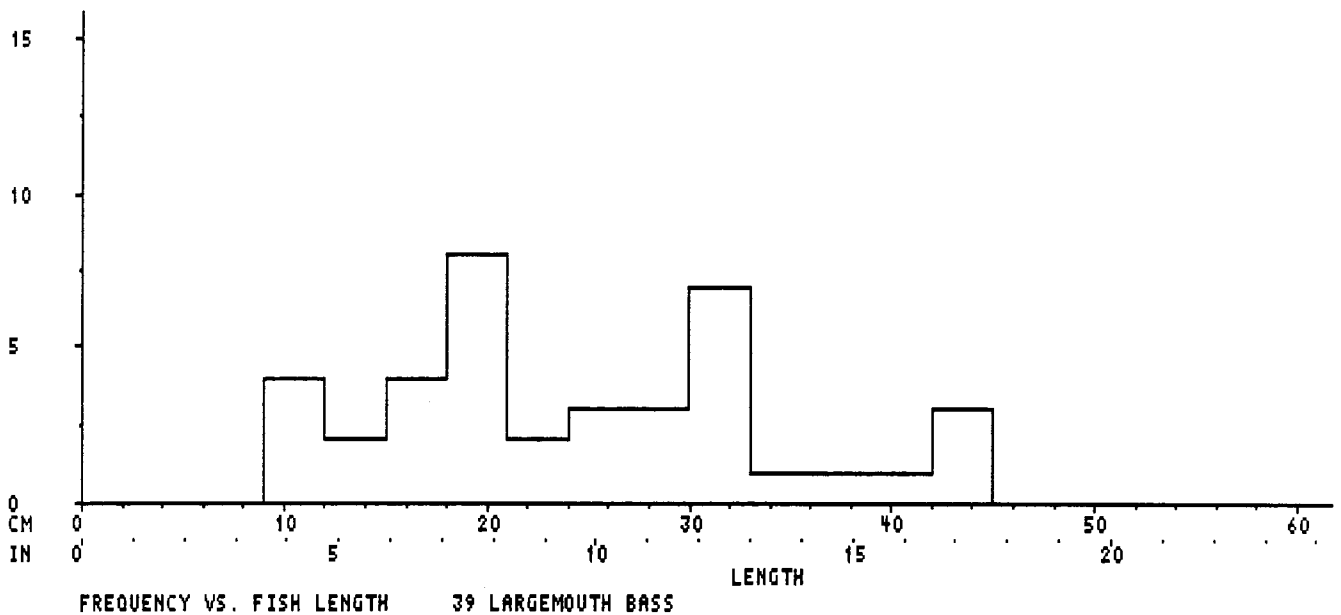


Figure 12. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers.

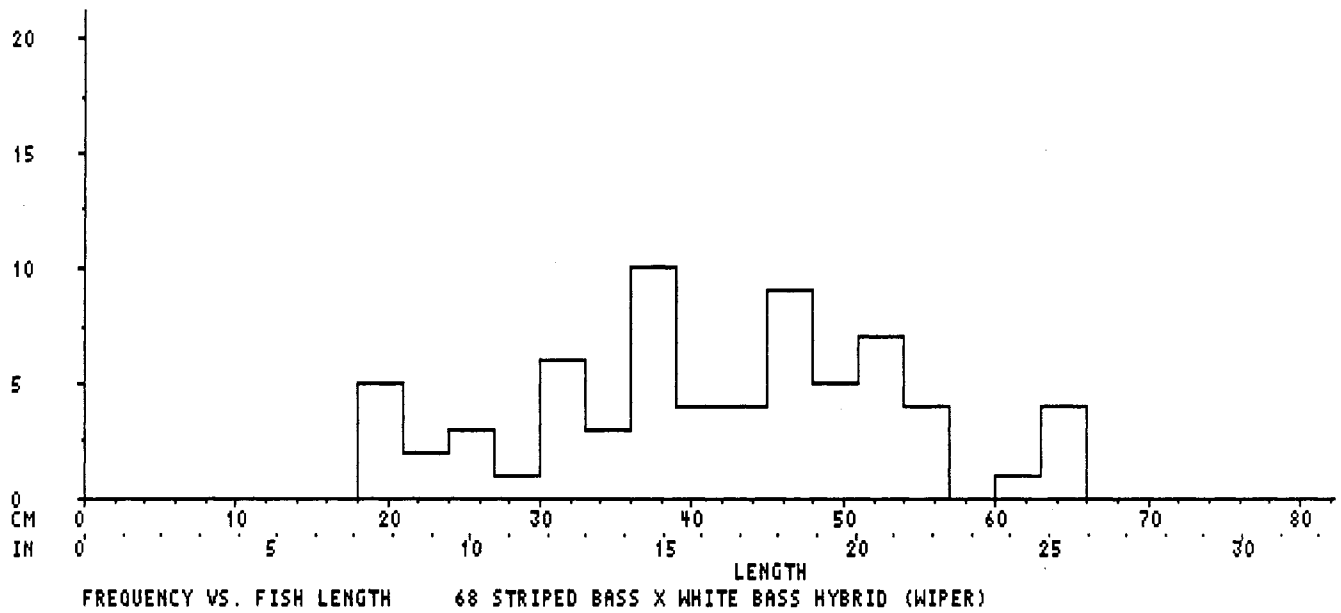


Figure 13. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid harvested by all anglers.

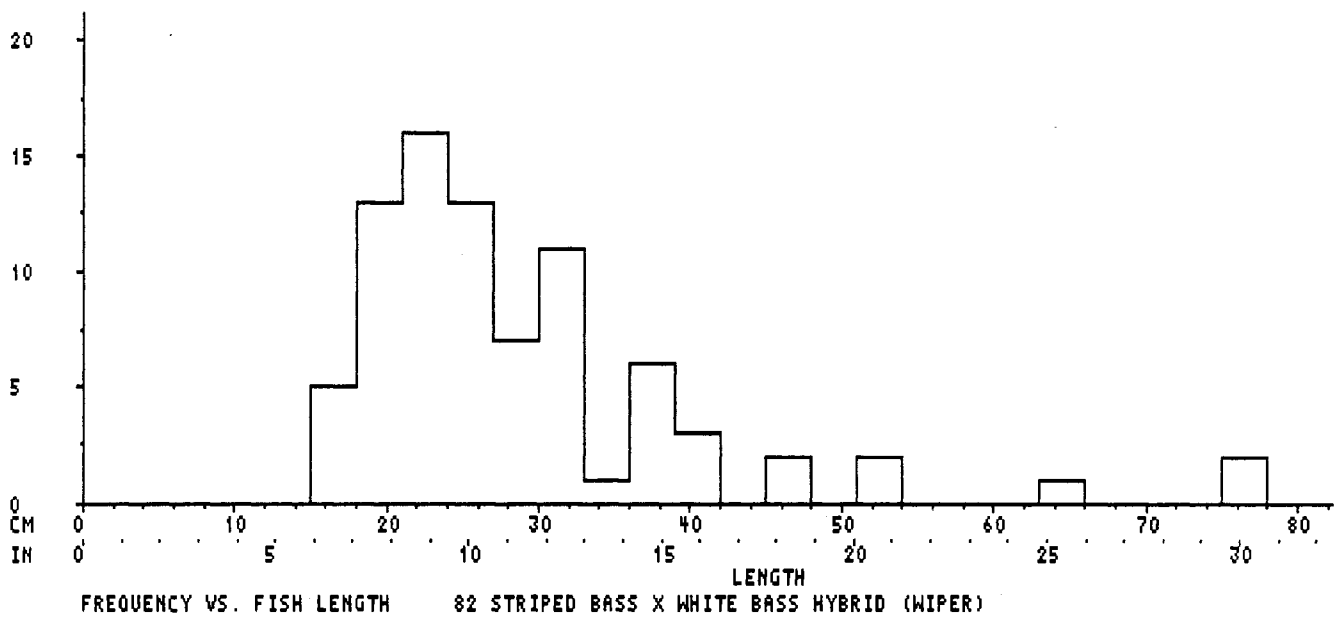


Figure 14. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass hybrid released by all anglers.

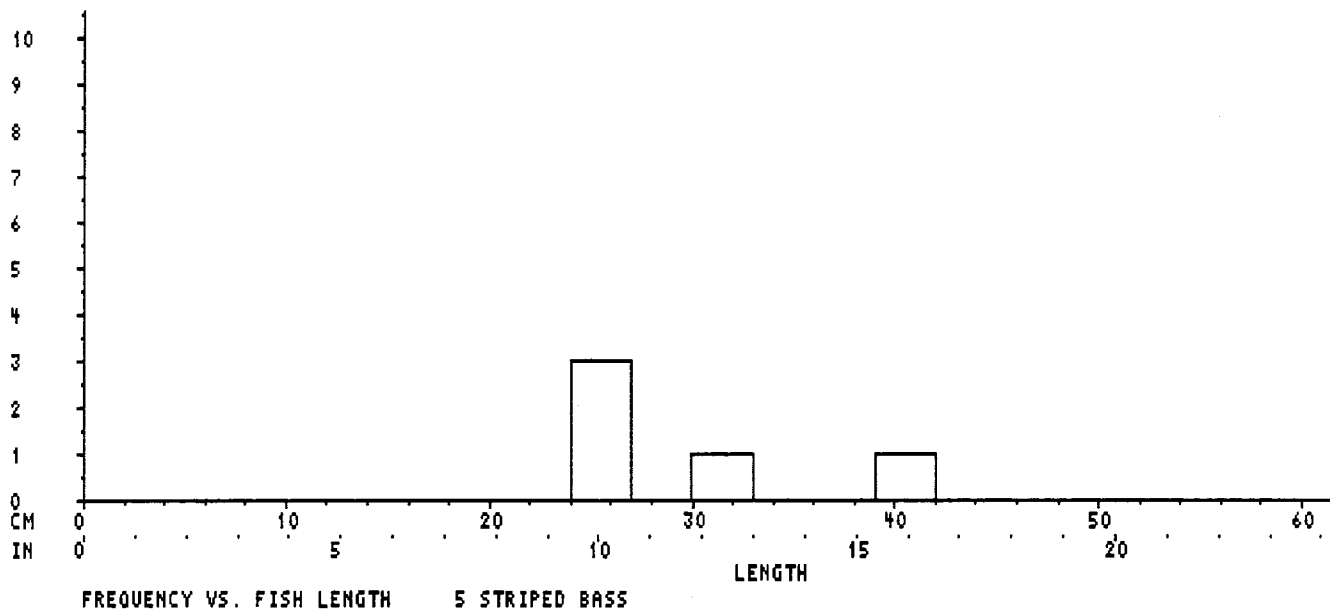


Figure 15. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass harvested by all anglers.

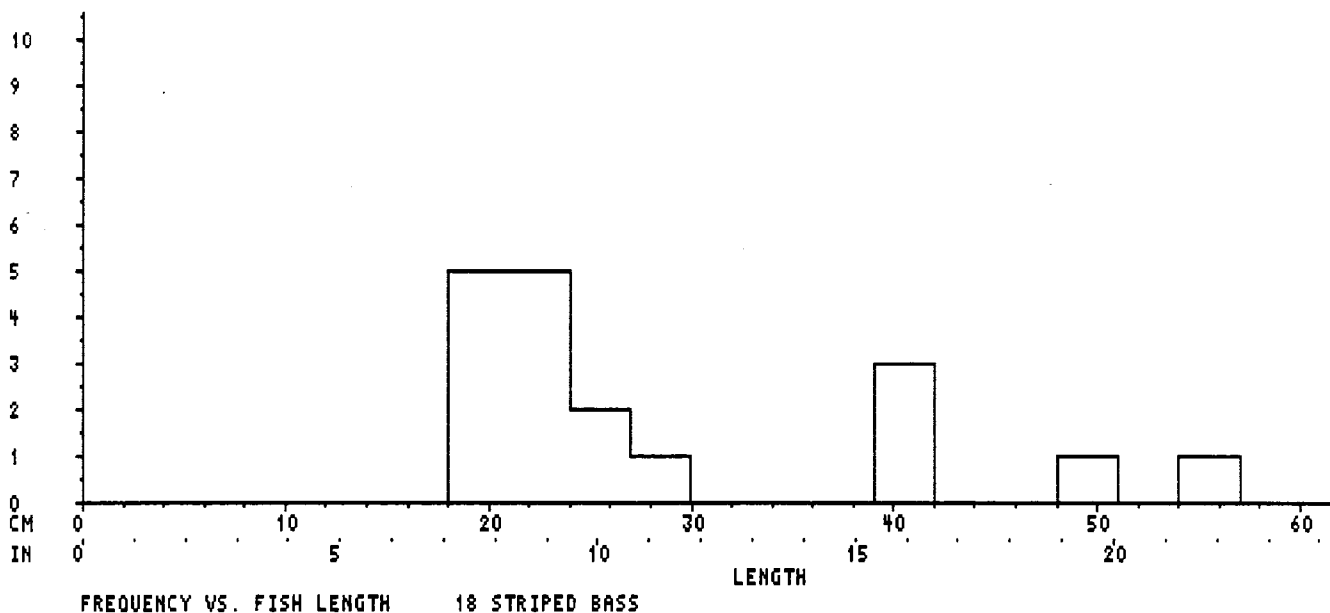


Figure 16. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of striped bass released by all anglers.

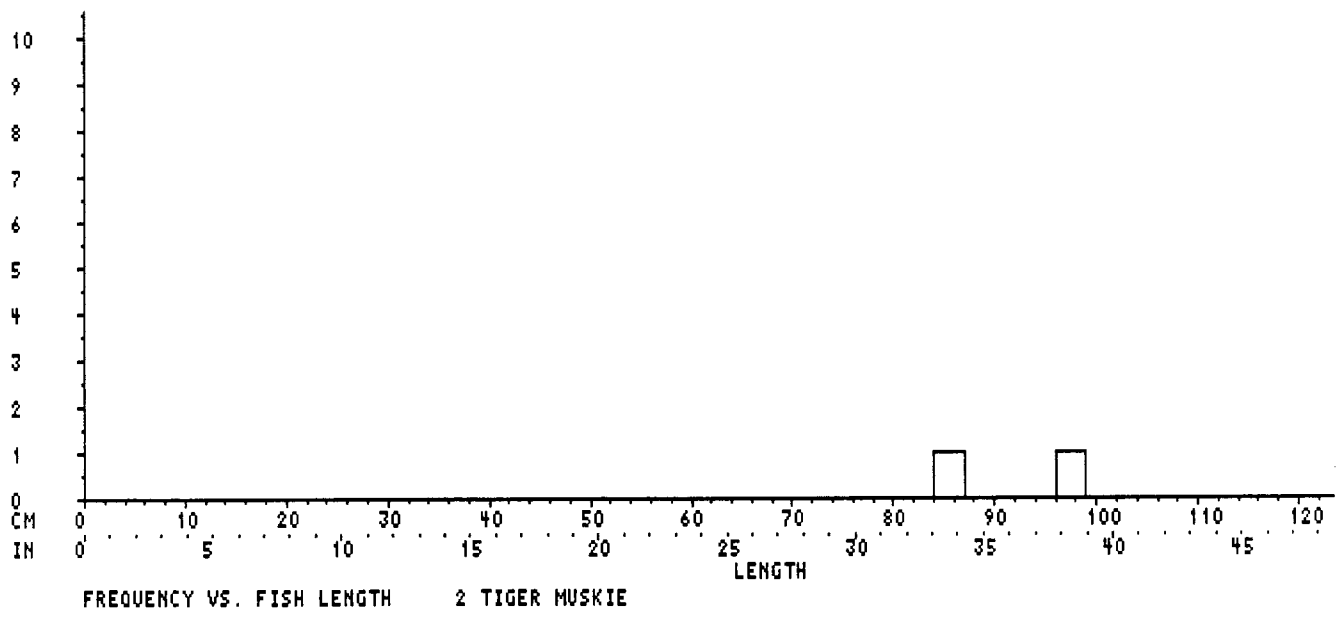


Figure 17. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of tiger muskie harvested by all anglers.

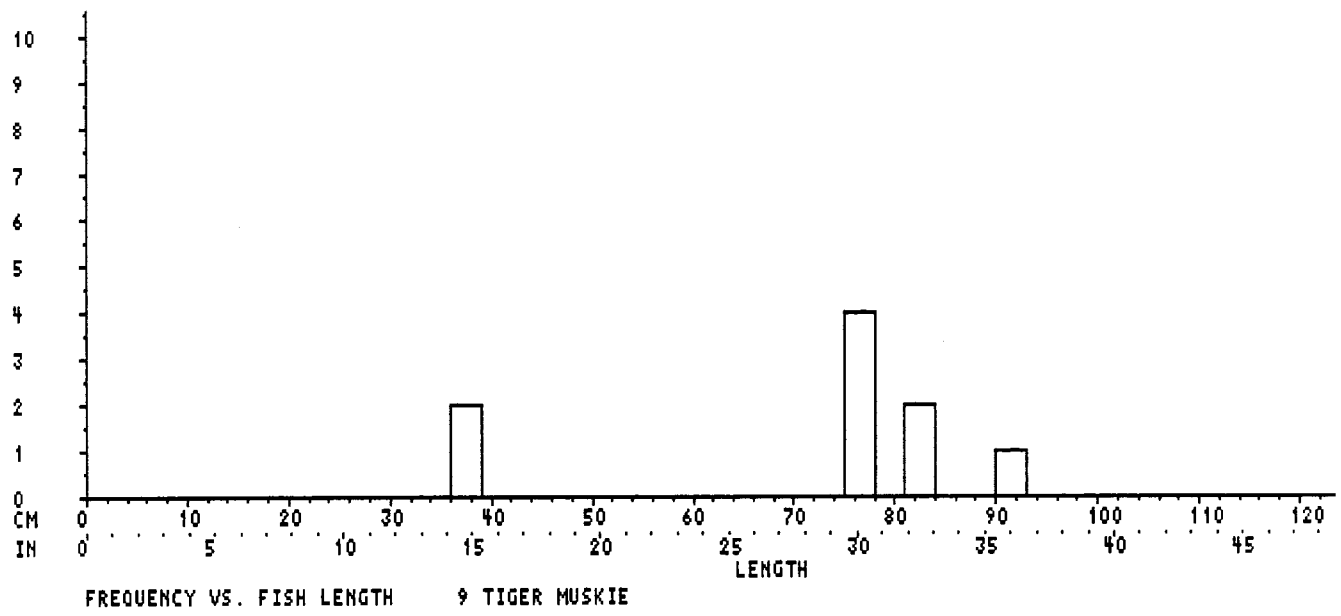


Figure 18. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of tiger muskie released by all anglers.

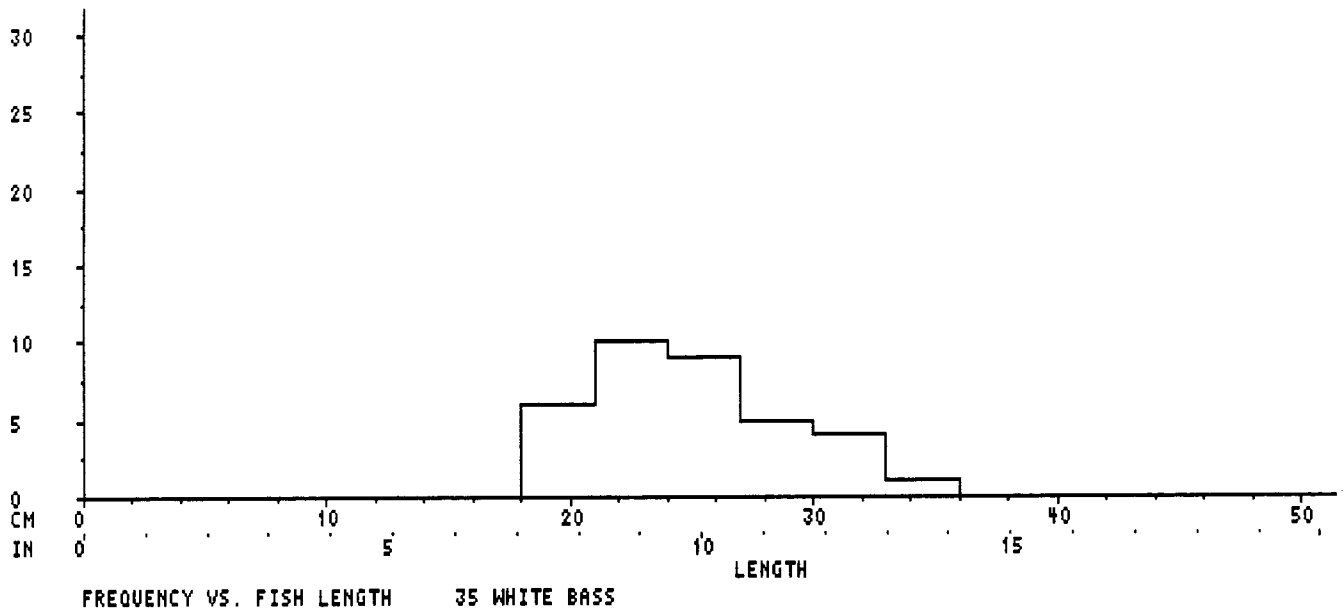


Figure 19. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass harvested by all anglers.

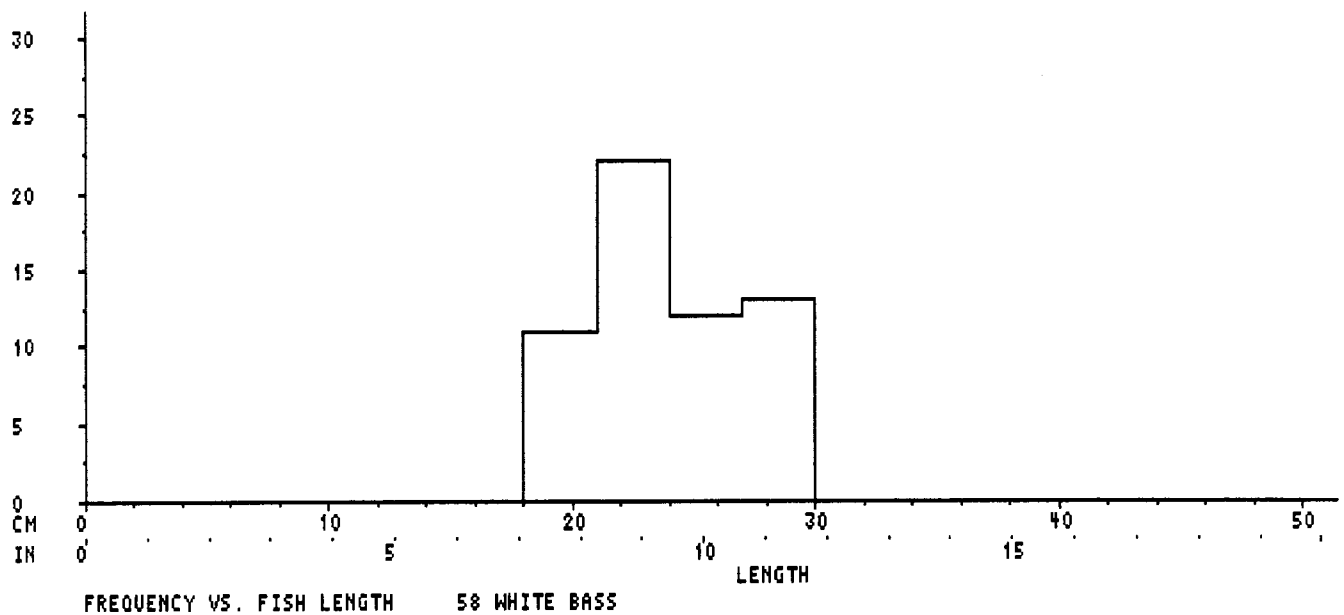


Figure 20. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass released by all anglers.

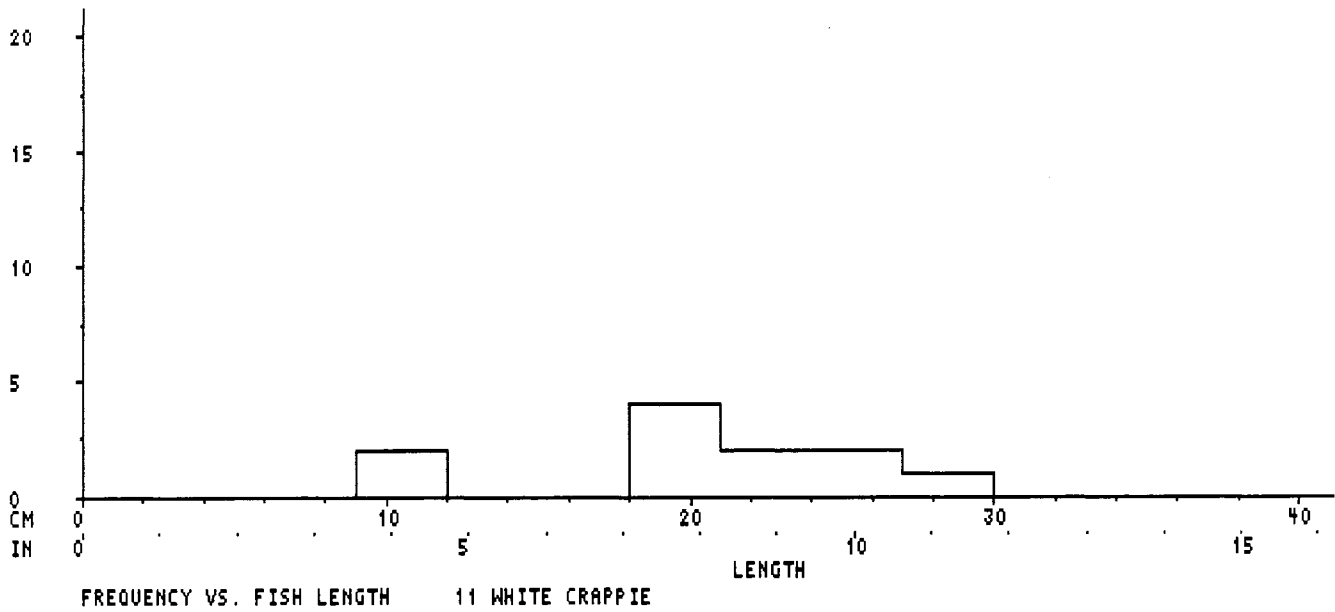


Figure 21. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

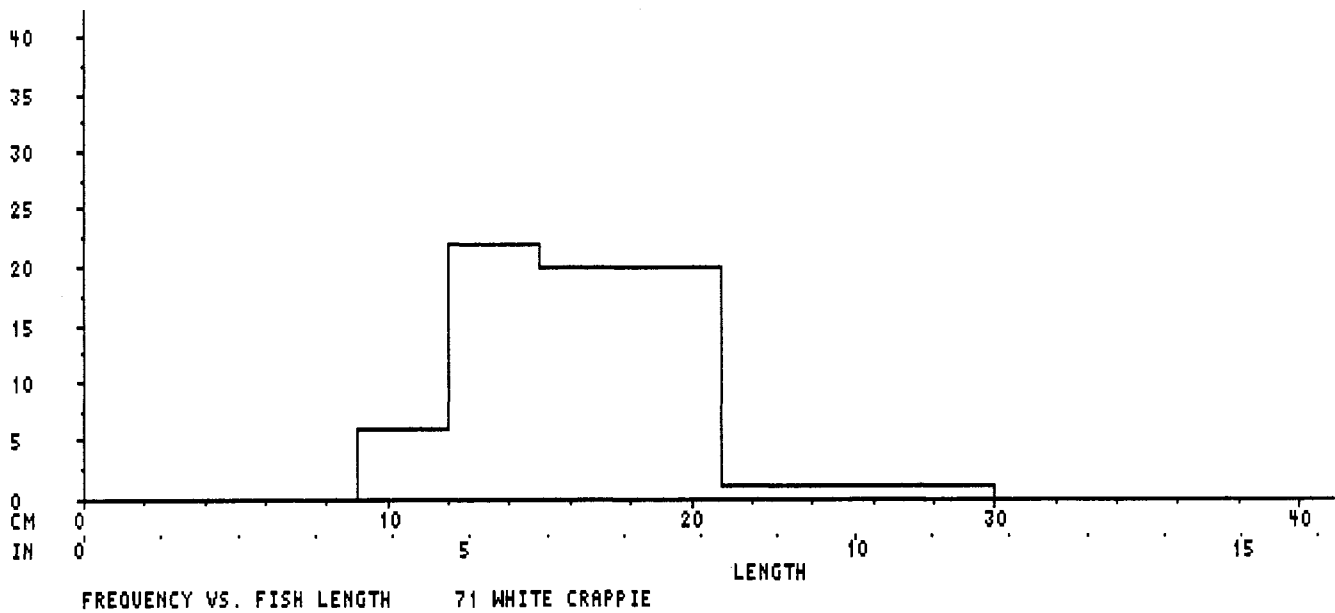


Figure 22. Clinton Lake Tailwater 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 21.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 CRAB ORCHARD LAKE
 6036 ACRES
 REGION 5, DISTRICT 22

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 425/693 = 61.3%

NUMBER OF INTERVIEWS: 3568

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	27756	24325-31188 (12%)	5	4-5	13%
	HOLIDAY	28727	20551-36903 (28%)	5	3-6	27%
	TOTAL	56483	47870-65097 (15%)	9	8-11	20%
SHORE	WEEKDAY	14686	12680-16692 (14%)	2	2-3	11%
	HOLIDAY	7284	6099-8468 (16%)	1	1-1	24%
	TOTAL	21970	19640-24299 (11%)	4	3-4	15%
BOAT & SHORE	WEEKDAY	42442	38467-46417 (9%)	7	6-8	12%
	HOLIDAY	36011	27721-44300 (23%)	6	5-7	26%
	TOTAL	78453	69575-87331 (11%)	13	12-14	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
57562	50843-64281 (12%)		.681	.587-.775 (14%)	23.56	9.54	All species
11	0-38 (257%)		.000	.000-.000 (278%)	0.00	0.00	Bigmouth buffalo
5	0-17 (236%)		.000	.000-.000 (231%)	0.00	0.00	Black bullhead
15295	12451-18138 (19%)		.149	.122-.176 (18%)	6.26	2.53	Black crappie
17099	14221-19978 (17%)		.198	.159-.237 (20%)	7.00	2.83	Bluegill
11	0-29 (164%)		.000	.000-.000 (157%)	0.00	0.00	Brown bullhead
181	69-293 (62%)		.001	.001-.002 (55%)	0.07	0.03	Carp
3590	2651-4530 (26%)		.038	.029-.046 (22%)	1.47	0.59	Channel catfish
7	0-22 (236%)		.000	.000-.001 (236%)	0.00	0.00	Crappie spp.
502	298-707 (41%)		.004	.003-.006 (37%)	0.21	0.08	Flathead catfish
319	185-453 (42%)		.003	.002-.004 (45%)	0.13	0.05	Freshwater drum
2075	1481-2669 (29%)		.019	.014-.025 (29%)	0.85	0.34	Green sunfish
2259	1759-2760 (22%)		.014	.010-.018 (27%)	0.92	0.37	Largemouth bass
17	0-38 (123%)		.000	.000-.000 (130%)	0.01	0.00	Longear sunfish
304	147-460 (52%)		.005	.001-.009 (74%)	0.12	0.05	Orangespotted sunfis
19	0-39 (103%)		.000	.000-.001 (226%)	0.01	0.00	Redear sunfish
24	0-53 (126%)		.000	.000-.000 (110%)	0.01	0.00	Striped bass x White
20	0-55 (173%)		.000	.000-.000 (176%)	0.01	0.00	Unidentified Sunfish
			****	NOT RECORDED ****			Striped bass
11	0-35 (220%)		.000	.000-.000 (223%)	0.00	0.00	Walleye
841	553-1130 (34%)		.008	.004-.013 (50%)	0.34	0.14	Warmouth
3163	2156-4170 (32%)		.036	.022-.050 (38%)	1.29	0.52	White bass
11253	9224-13283 (18%)		.199	.115-.282 (42%)	4.61	1.86	White crappie
418	223-614 (47%)		.003	.002-.005 (43%)	0.17	0.07	Yellow bullhead
32	0-65 (105%)		.000	.000-.001 (140%)	0.01	0.01	Yellow perch
107	45-168 (57%)		.001	.000-.002 (69%)	0.04	0.02	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
13383	11829-14937	(12%)	.143	.125-.161 (13%)	5.48	0.232	All species
16	0-61	(278%)	.000	.000-.000 (278%)	0.01	1.533	Bigmouth buffalo
0	0-1	(231%)	.000	.000-.000 (231%)	0.00	0.060	Black bullhead
3382	2750-4014	(19%)	.032	.026-.038 (19%)	1.38	0.221	Black crappie
1274	1041-1506	(18%)	.015	.012-.018 (22%)	0.52	0.074	Bluegill
5	0-13	(171%)	.000	.000-.000 (164%)	0.00	0.438	Brown bullhead
99	38-160	(62%)	.001	.000-.001 (60%)	0.04	0.547	Carp
2434	1780-3088	(27%)	.026	.019-.032 (25%)	1.00	0.678	Channel catfish
1	0-5	(236%)	.000	.000-.000 (231%)	0.00	0.204	Crappie spp.
516	312-720	(39%)	.005	.003-.007 (46%)	0.21	1.027	Flathead catfish
100	61-140	(40%)	.001	.000-.001 (44%)	0.04	0.314	Freshwater drum
134	93-174	(30%)	.001	.001-.002 (33%)	0.05	0.065	Green sunfish
2104	1606-2601	(24%)	.012	.009-.016 (29%)	0.86	0.931	Largemouth bass
2	0-5	(139%)	.000	.000-.000 (200%)	0.00	0.115	Longear sunfish
19	9-28	(50%)	.000	.000-.000 (65%)	0.01	0.061	Orangespotted sunfis
2	0-4	(96%)	.000	.000-.000 (215%)	0.00	0.100	Redear sunfish
9	0-21	(133%)	.000	.000-.000 (107%)	0.00	0.383	Striped bass x White
			****	NOT RECORDED ****			Unidentified Sunfish
			****	NOT RECORDED ****			Striped bass
5	0-15	(220%)	.000	.000-.000 (220%)	0.00	0.439	Walleye
82	53-112	(36%)	.001	.000-.001 (54%)	0.03	0.098	Warmouth
752	510-994	(32%)	.009	.005-.012 (38%)	0.31	0.238	White bass
2251	1842-2659	(18%)	.039	.024-.053 (38%)	0.92	0.200	White crappie
186	86-287	(54%)	.002	.001-.002 (49%)	0.08	0.445	Yellow bullhead
2	0-4	(111%)	.000	.000-.000 (129%)	0.00	0.056	Yellow perch
8	3-13	(59%)	.000	.000-.000 (80%)	0.00	0.074	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
29505	26080-32930	(12%)	.315	.275-.355 (13%)	4.89	0.513	All species
36	0-135	(278%)	.000	.000-.000 (257%)	0.01	3.380	Bigmouth buffalo
1	0-2	(236%)	.000	.000-.000 (231%)	0.00	0.132	Black bullhead
7456	6063-8849	(19%)	.071	.057-.084 (19%)	1.24	0.488	Black crappie
2808	2295-3320	(18%)	.033	.025-.040 (22%)	0.47	0.164	Bluegill
11	0-29	(171%)	.000	.000-.000 (164%)	0.00	0.966	Brown bullhead
218	83-353	(62%)	.002	.001-.003 (60%)	0.04	1.207	Carp
5366	3924-6808	(27%)	.057	.042-.071 (25%)	0.89	1.495	Channel catfish
3	0-10	(231%)	.000	.000-.001 (231%)	0.00	0.449	Crappie spp.
1138	689-1587	(39%)	.010	.006-.015 (46%)	0.19	2.265	Flathead catfish
221	134-309	(40%)	.002	.001-.003 (44%)	0.04	0.693	Freshwater drum
295	206-384	(30%)	.003	.002-.004 (33%)	0.05	0.142	Green sunfish
4638	3541-5734	(24%)	.027	.019-.035 (29%)	0.77	2.053	Largemouth bass
4	0-10	(139%)	.000	.000-.000 (200%)	0.00	0.254	Longear sunfish
41	21-62	(50%)	.001	.000-.001 (65%)	0.01	0.135	Orangespotted sunfis
4	0-8	(96%)	.000	.000-.000 (215%)	0.00	0.221	Redear sunfish
20	0-46	(133%)	.000	.000-.000 (107%)	0.00	0.845	Striped bass x White
				**** NOT RECORDED ****			Unidentified Sunfish
				**** NOT RECORDED ****			Striped bass
11	0-34	(220%)	.000	.000-.000 (223%)	0.00	0.968	Walleye
182	116-247	(36%)	.002	.001-.003 (54%)	0.03	0.216	Warmouth
1658	1125-2191	(32%)	.019	.012-.026 (38%)	0.27	0.524	White bass
4962	4062-5862	(18%)	.085	.053-.118 (38%)	0.82	0.441	White crappie
410	189-632	(54%)	.003	.002-.005 (49%)	0.07	0.982	Yellow bullhead
4	0-8	(111%)	.000	.000-.000 (129%)	0.00	0.124	Yellow perch
18	7-28	(59%)	.000	.000-.000 (80%)	0.00	0.164	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
148120	131083-165158 (12%)	1.574	1.388-1.760 (12%)	60.64	24.54	All species
11	0-38 (257%)	.000	.000-.000 (278%)	0.00	0.00	Bigmouth buffalo
5	0-17 (236%)	.000	.000-.000 (231%)	0.00	0.00	Black bullhead
34783	27932-41634 (20%)	.309	.252-.365 (18%)	14.24	5.76	Black crappie
46401	39285-53517 (15%)	.502	.416-.589 (17%)	19.00	7.69	Bluegill
11	0-29 (164%)	.000	.000-.000 (157%)	0.00	0.00	Brown bullhead
380	238-522 (37%)	.003	.002-.004 (42%)	0.16	0.06	Carp
4611	3399-5823 (26%)	.048	.038-.057 (20%)	1.89	0.76	Channel catfish
7	0-22 (236%)	.000	.000-.001 (236%)	0.00	0.00	Crappie spp.
513	307-720 (40%)	.004	.003-.006 (37%)	0.21	0.09	Flathead catfish
1152	827-1476 (28%)	.011	.008-.014 (26%)	0.47	0.19	Freshwater drum
5753	4313-7192 (25%)	.056	.039-.072 (30%)	2.36	0.95	Green sunfish
19003	14981-23024 (21%)	.134	.111-.157 (17%)	7.78	3.15	Largemouth bass
21	0-42 (106%)	.000	.000-.000 (108%)	0.01	0.00	Longear sunfish
793	416-1169 (48%)	.008	.004-.013 (55%)	0.32	0.13	Orangespotted sunfis
23	2-44 (91%)	.000	.000-.001 (217%)	0.01	0.00	Redear sunfish
100	0-209 (109%)	.001	.000-.003 (149%)	0.04	0.02	Striped bass x White
20	0-55 (173%)	.000	.000-.000 (176%)	0.01	0.00	Unidentified Sunfish
4	0-12 (223%)	.000	.000-.000 (223%)	0.00	0.00	Striped bass
11	0-35 (220%)	.000	.000-.000 (223%)	0.00	0.00	Walleye
1594	1109-2078 (30%)	.016	.009-.023 (42%)	0.65	0.26	Warmouth
8737	6331-11143 (28%)	.110	.072-.148 (34%)	3.58	1.45	White bass
22562	18340-26784 (19%)	.355	.220-.491 (38%)	9.24	3.74	White crappie
931	516-1346 (45%)	.007	.005-.009 (29%)	0.38	0.15	Yellow bullhead
48	7-89 (85%)	.000	.000-.001 (126%)	0.02	0.01	Yellow perch
649	382-917 (41%)	.007	.003-.010 (50%)	0.27	0.11	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
23024	20309-25739 (12%)	.221	.198-.245 (11%)	9.43	0.155	All species
16	0-61 (278%)	.000	.000-.000 (278%)	0.01	1.533	Bigmouth buffalo
0	0-1 (231%)	.000	.000-.000 (231%)	0.00	0.060	Black bullhead
4185	3419-4952 (18%)	.038	.032-.045 (17%)	1.71	0.120	Black crappie
1963	1651-2276 (16%)	.022	.018-.026 (19%)	0.80	0.042	Bluegill
5	0-13 (171%)	.000	.000-.000 (164%)	0.00	0.438	Brown bullhead
188	116-259 (38%)	.001	.001-.002 (40%)	0.08	0.493	Carp
2614	1927-3302 (26%)	.027	.021-.034 (24%)	1.07	0.567	Channel catfish
1	0-5 (236%)	.000	.000-.000 (231%)	0.00	0.204	Crappie spp.
520	316-724 (39%)	.005	.003-.007 (46%)	0.21	1.013	Flathead catfish
266	199-332 (25%)	.003	.002-.004 (30%)	0.11	0.231	Freshwater drum
220	163-277 (26%)	.002	.001-.003 (29%)	0.09	0.038	Green sunfish
8123	6189-10057 (24%)	.049	.040-.057 (17%)	3.33	0.427	Largemouth bass
2	0-5 (133%)	.000	.000-.000 (191%)	0.00	0.099	Longear sunfish
39	18-61 (55%)	.000	.000-.001 (58%)	0.02	0.050	Orangespotted sunfis
2	0-4 (93%)	.000	.000-.000 (212%)	0.00	0.088	Redear sunfish
49	0-118 (144%)	.001	.000-.002 (189%)	0.02	0.485	Striped bass x White
			**** NOT RECORDED ****			Unidentified Sunfish
1	0-2 (226%)	.000	.000-.000 (223%)	0.00	0.156	Striped bass
5	0-15 (220%)	.000	.000-.000 (220%)	0.00	0.439	Walleye
110	76-143 (30%)	.001	.001-.002 (47%)	0.04	0.069	Warmouth
1639	1195-2084 (27%)	.022	.014-.030 (36%)	0.67	0.188	White bass
2792	2291-3292 (18%)	.047	.030-.065 (37%)	1.14	0.124	White crappie
251	110-391 (56%)	.002	.001-.003 (38%)	0.10	0.269	Yellow bullhead
2	0-4 (98%)	.000	.000-.000 (125%)	0.00	0.043	Yellow perch
30	15-45 (49%)	.000	.000-.001 (62%)	0.01	0.047	Yellow bass

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

LB CAUGHT	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
50759	44773-56744 (12%)	.488	.436-.540 (11%)	8.41	0.343	All species
36	0-135 (278%)	.000	.000-.000 (257%)	0.01	3.380	Bigmouth buffalo
1	0-2 (236%)	.000	.000-.000 (231%)	0.00	0.132	Black bullhead
9227	7537-10917 (18%)	.084	.070-.099 (17%)	1.53	0.265	Black crappie
4329	3639-5018 (16%)	.048	.039-.057 (19%)	0.72	0.093	Bluegill
11	0-29 (171%)	.000	.000-.000 (164%)	0.00	0.966	Brown bullhead
413	256-571 (38%)	.003	.002-.004 (40%)	0.07	1.087	Carp
5763	4247-7279 (26%)	.060	.046-.075 (24%)	0.95	1.250	Channel catfish
3	0-10 (231%)	.000	.000-.001 (231%)	0.00	0.449	Crappie spp.
1146	696-1596 (39%)	.010	.006-.015 (46%)	0.19	2.232	Flathead catfish
586	439-733 (25%)	.006	.004-.008 (30%)	0.10	0.509	Freshwater drum
485	359-611 (26%)	.005	.003-.006 (29%)	0.08	0.084	Green sunfish
17909	13645-22173 (24%)	.107	.089-.126 (17%)	2.97	0.942	Largemouth bass
4	0-10 (133%)	.000	.000-.000 (191%)	0.00	0.218	Longear sunfish
87	39-134 (55%)	.001	.000-.001 (58%)	0.01	0.109	Orangespotted sunfis
4	0-9 (93%)	.000	.000-.000 (212%)	0.00	0.195	Redear sunfish
107	0-261 (144%)	.001	.000-.004 (189%)	0.02	1.070	Striped bass x White
			**** NOT RECORDED ****			Unidentified Sunfish
1	0-4 (223%)	.000	.000-.000 (226%)	0.00	0.343	Striped bass
11	0-34 (220%)	.000	.000-.000 (223%)	0.00	0.968	Walleye
242	168-315 (30%)	.002	.001-.004 (47%)	0.04	0.152	Warmouth
3614	2634-4595 (27%)	.048	.031-.065 (36%)	0.60	0.414	White bass
6155	5052-7259 (18%)	.104	.066-.143 (37%)	1.02	0.273	White crappie
552	.243-862 (56%)	.004	.003-.006 (38%)	0.09	0.593	Yellow bullhead
5	0-9 (98%)	.000	.000-.000 (125%)	0.00	0.095	Yellow perch
67	34-100 (49%)	.001	.000-.001 (62%)	0.01	0.103	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 (4%)	0.0	15.0	943
SHORE	2.3	2.1-2.4 (6%)	0.2	10.8	416
BOAT & SHORE	3.3	3.1-3.4 (4%)	0.0	15.0	1359
MILES TRAVELED	35.5	32.9-38.2 (7%)	1	1400	2587
SUCCESS RATING (1-10)	5.8	5.7-5.9 (3%)	1	10	2573

*475 samples were from split interviews of completed trips.

44.3% of all 3071 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 19 out of 3071 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	585	1557	84	20	5	3	3			
SHORE INTERVIEWS	312	362	87	37	11	2	1		1	1

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

923 (30.1%)	ANY	All species
17 (0.6%)	BLC	Black crappie
6 (0.2%)	BLG	Bluegill
75 (2.4%)	BSS	Black bass spp.
4 (0.1%)	CAP	Carp
1 (0.0%)	CCF	Channel catfish
351 (11.4%)	CRP	Crappie spp.
1456 (47.4%)	LMB	Largemouth bass
1 (0.0%)	WAE	Walleye
9 (0.3%)	WHB	White bass

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bigmouth buffalo																
HARVEST	2452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black bullhead																
HARVEST	2451	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	2093	123	67	43	17	19	25	15	11	7	6	9	1	2	1	13
RELEASE	2147	121	36	26	18	18	19	2	7	4	11	-	4	2	2	35
Bluegill																
HARVEST	2051	108	81	37	34	29	18	17	20	5	10	7	10	3	-	22
RELEASE	2010	110	57	48	42	13	34	7	7	6	6	1	22	6	4	79
Brown bullhead																
HARVEST	2450	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	2438	11	3	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2420	32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	2246	128	26	19	10	14	5	3	-	-	-	1	-	-	-	-
RELEASE	2346	91	10	-	2	-	-	-	-	-	-	-	-	3	-	-
Flathead catfish																
HARVEST	2394	40	11	4	3	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2449	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	2420	28	4	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2352	91	6	-	3	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	2306	82	33	7	8	8	4	2	1	1	-	-	-	-	-	-
RELEASE	2291	70	11	30	17	5	9	2	7	1	4	-	5	-	-	-
Largemouth bass																
HARVEST	2308	95	29	13	4	-	2	-	1	-	-	-	-	-	-	-
RELEASE	1540	457	156	98	62	42	28	19	11	10	8	-	4	2	5	10
Longear sunfish																
HARVEST	2448	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2450	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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+
Orangespotted sunfish																
HARVEST	2431	11	7	2	-	-	1	-	-	-	-	-	-	-	-	-
RELEASE	2427	13	4	3	-	1	3	-	-	1	-	-	-	-	-	-
Redear sunfish																
HARVEST	2450	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2450	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass x White bass hybrid (Wiper)																
HARVEST	2451	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2443	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	2452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2450	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Striped bass																
HARVEST	2452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2451	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	2373	55	14	5	2	-	2	1	-	-	-	-	-	-	-	-
RELEASE	2396	27	12	12	-	-	2	-	3	-	-	-	-	-	-	-
White bass																
HARVEST	2355	34	17	2	7	4	3	22	6	2	-	-	-	-	-	-
RELEASE	2239	108	30	24	16	7	4	5	2	2	4	2	-	-	2	7
White crappie																
HARVEST	2198	98	44	38	27	15	6	11	5	2	2	1	3	-	-	2
RELEASE	2260	75	32	23	8	2	10	9	1	-	10	-	3	2	-	17
Yellow bullhead																
HARVEST	2402	42	7	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2375	66	7	4	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	2446	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2451	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	2429	21	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2405	38	3	2	3	1	-	-	-	-	-	-	-	-	-	-

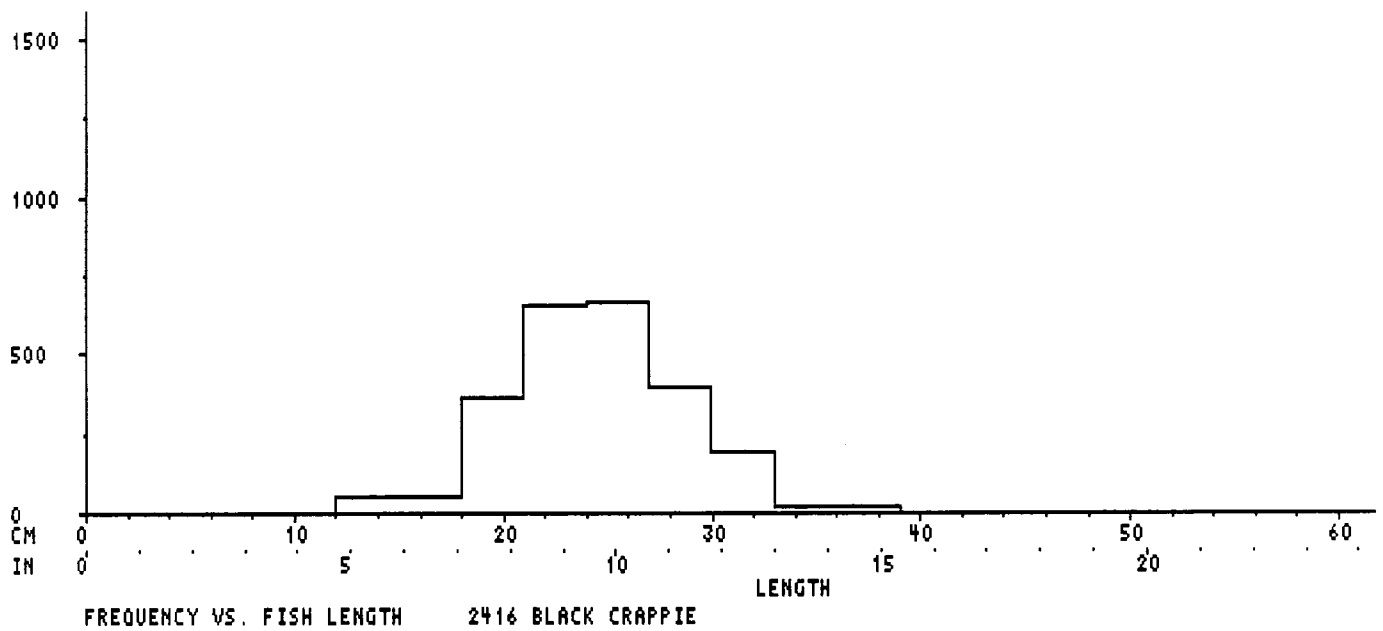


Figure 1. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

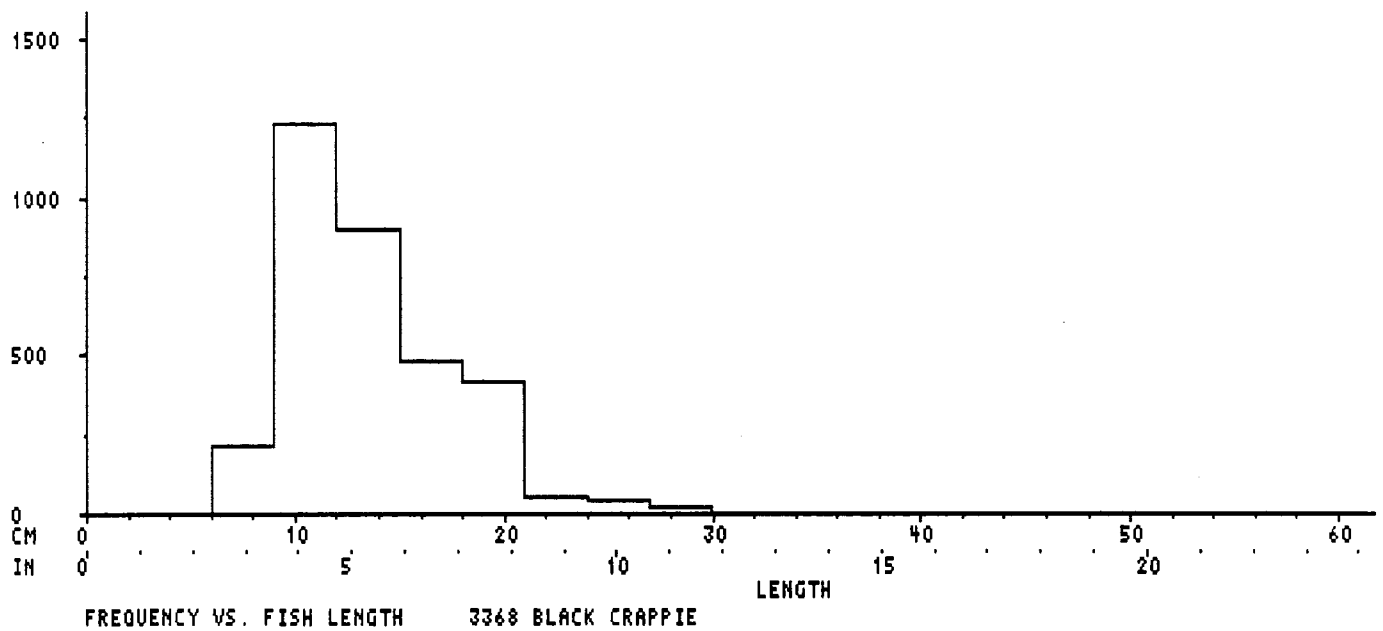


Figure 2. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

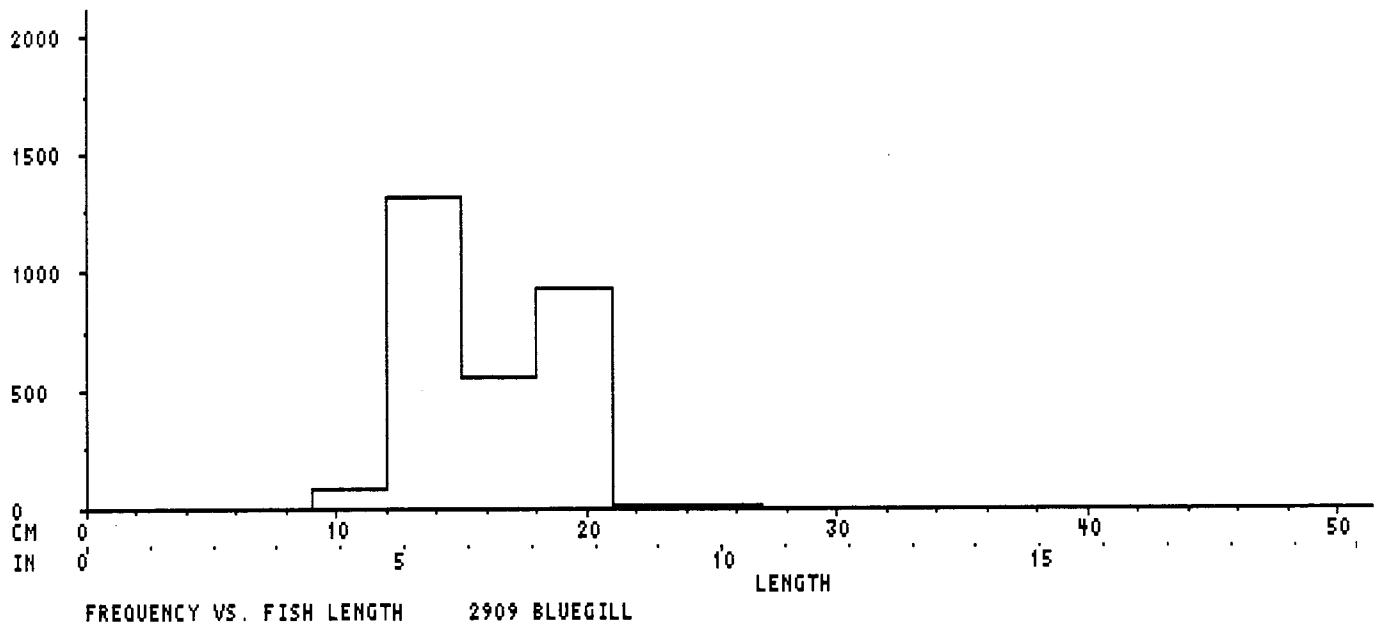


Figure 3. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

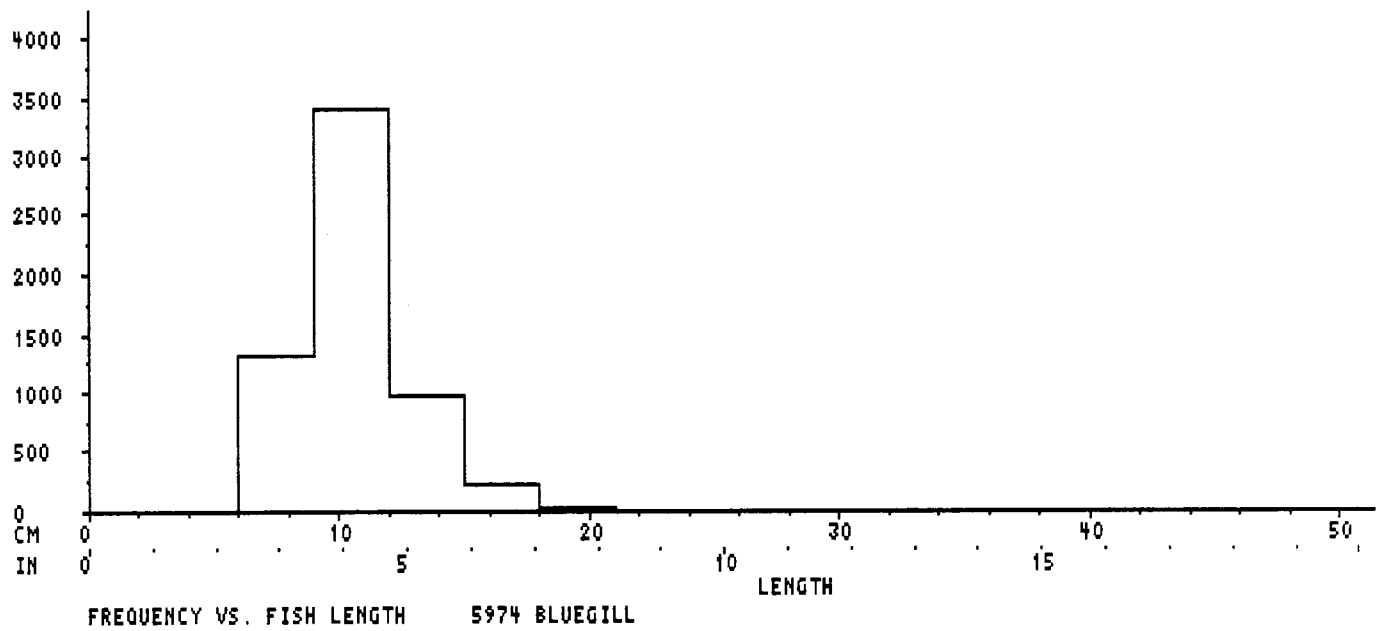


Figure 4. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

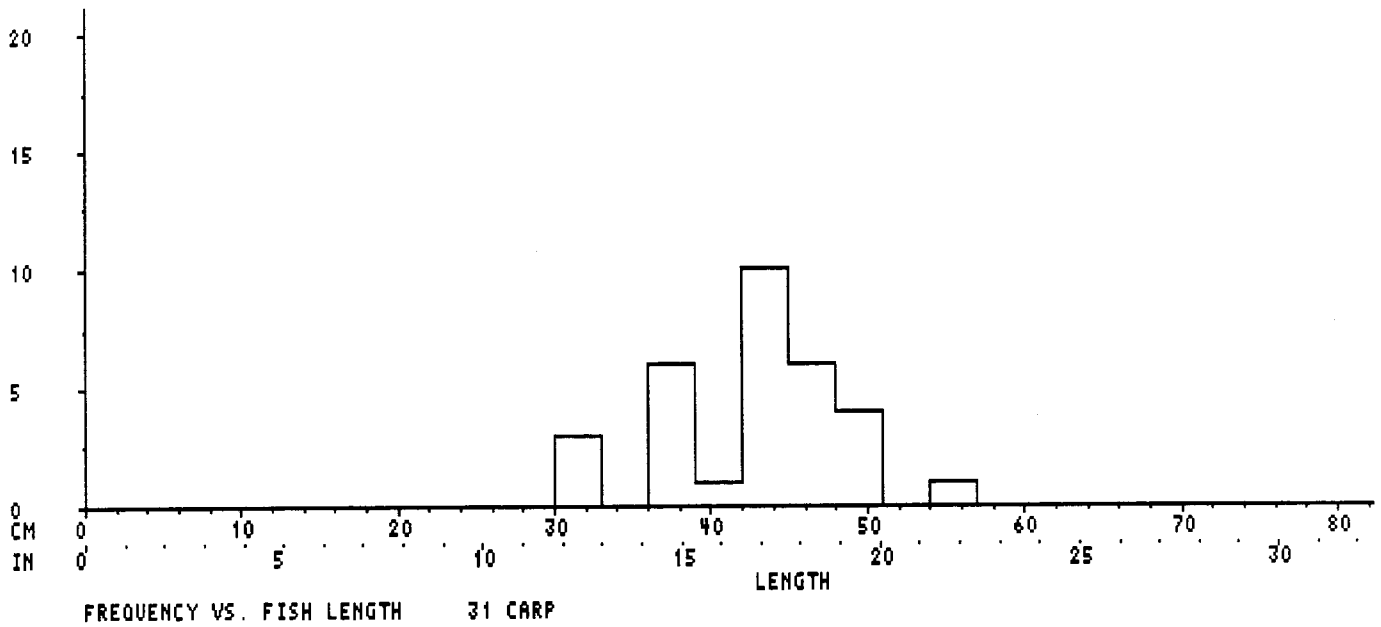


Figure 5. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

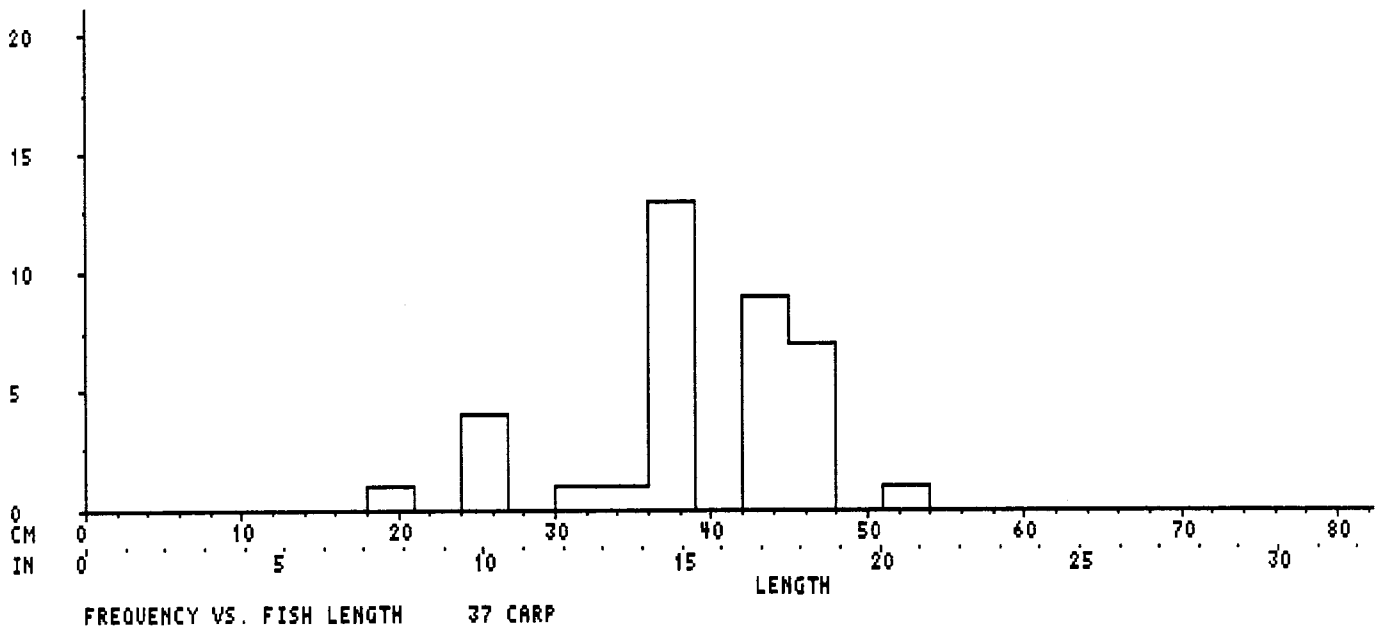


Figure 6. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

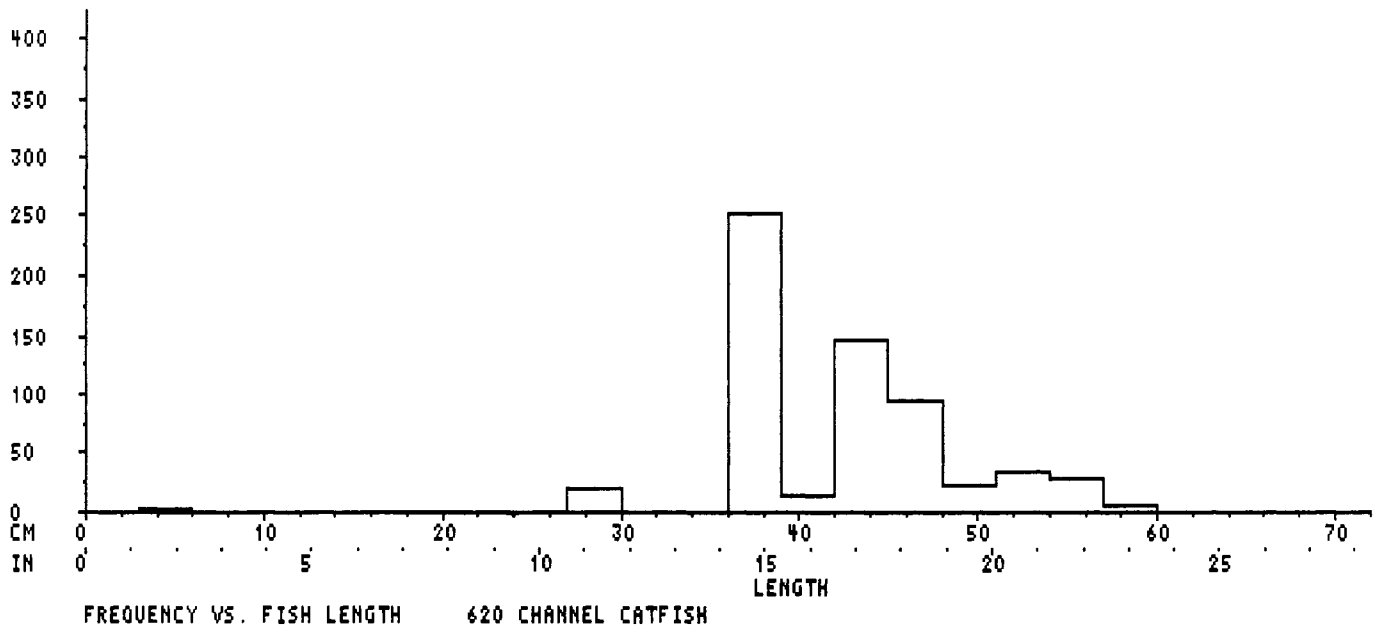


Figure 7. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

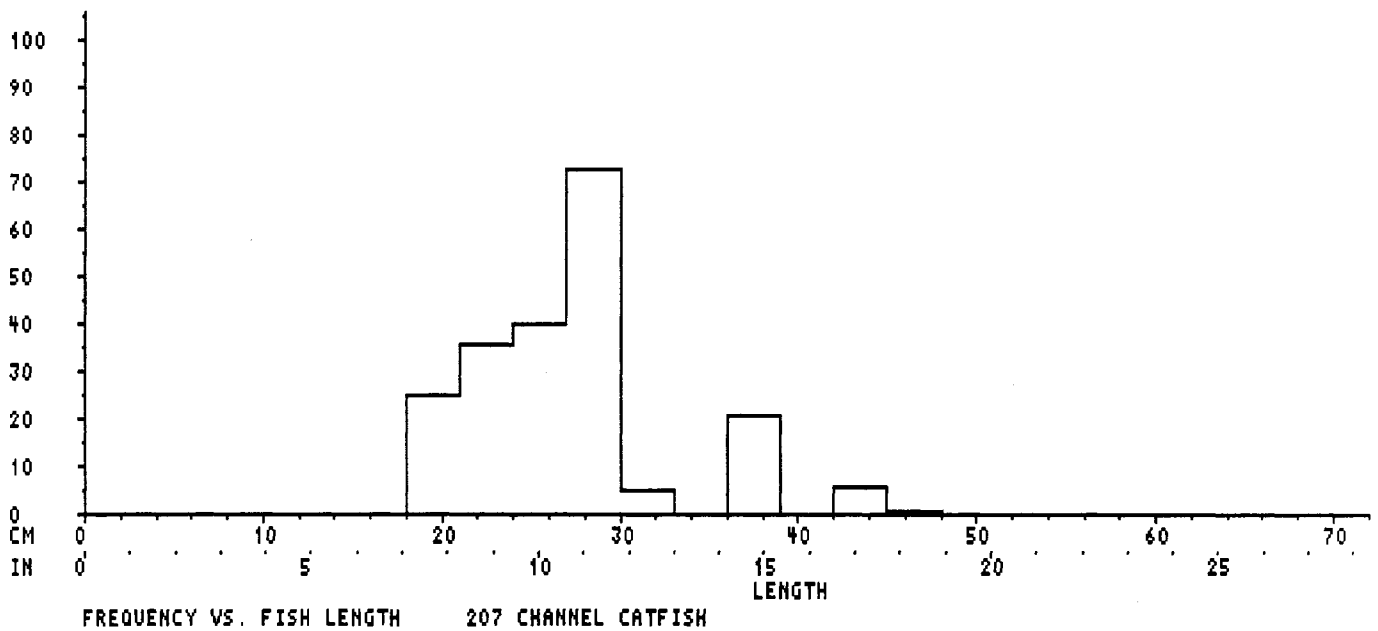


Figure 8. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers. Note the difference in scale from Figure 7.

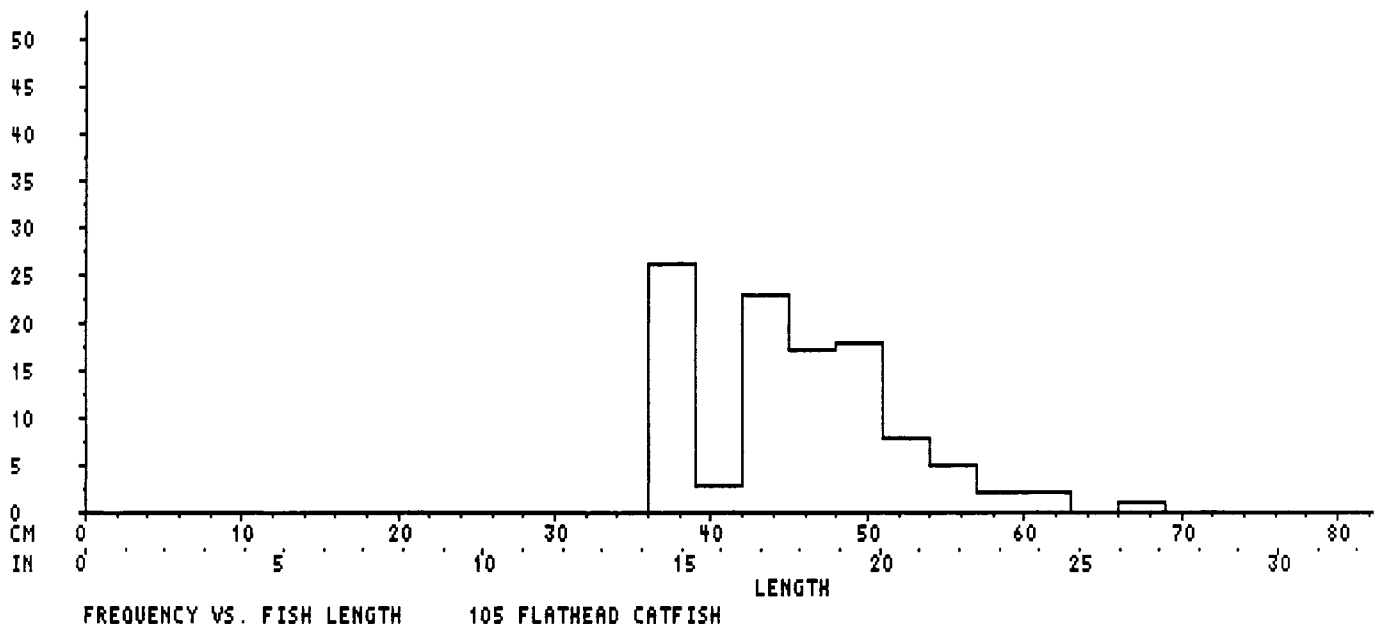


Figure 9. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of flathead catfish harvested by all anglers.

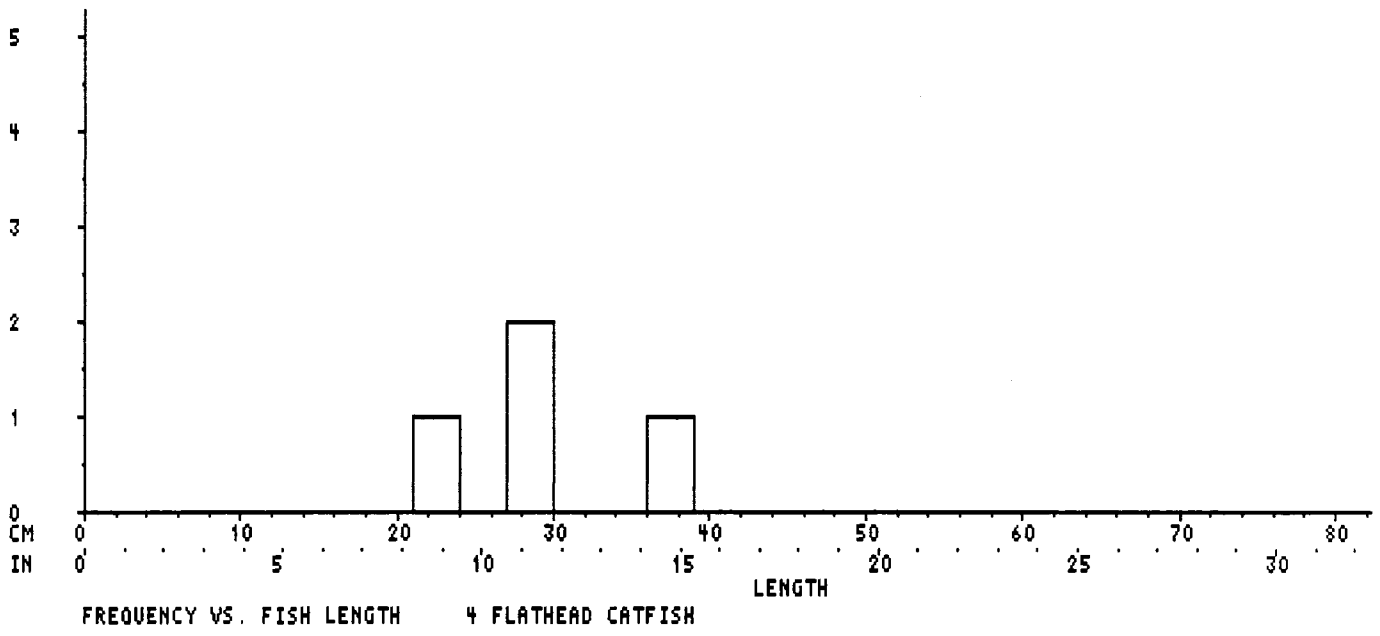


Figure 10. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of flathead catfish released by all anglers. Note the difference in scale from Figure 9.

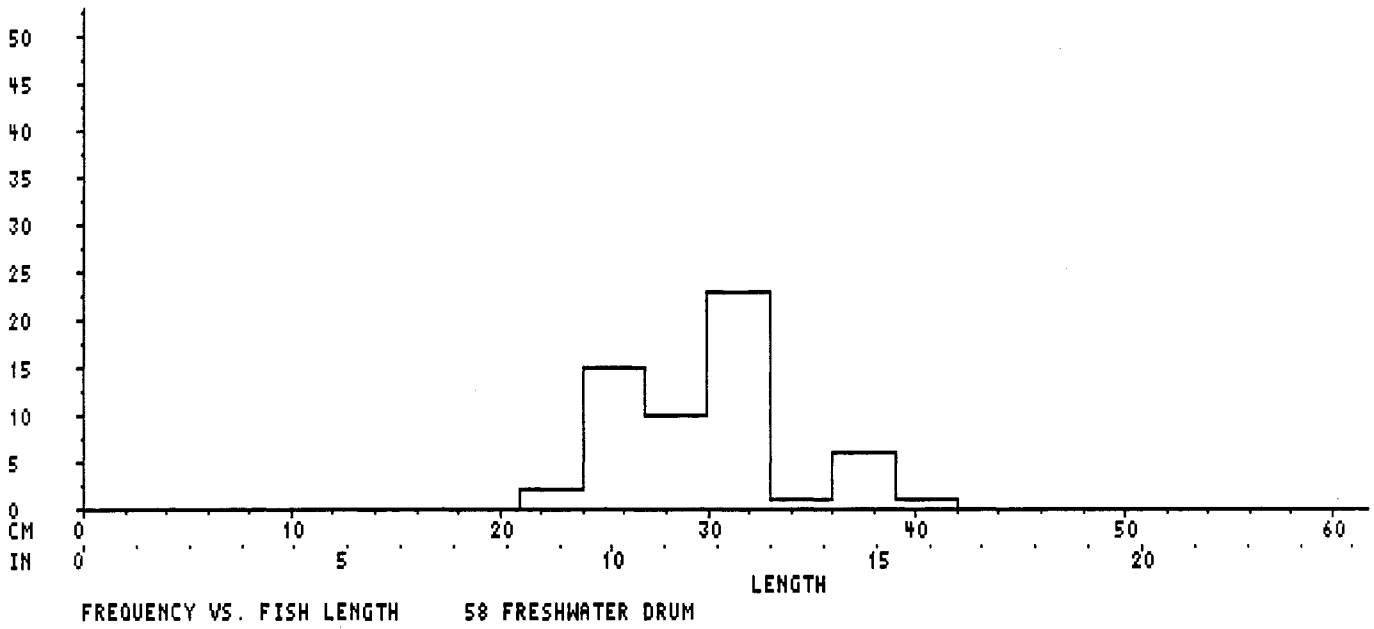


Figure 11. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum harvested by all anglers.

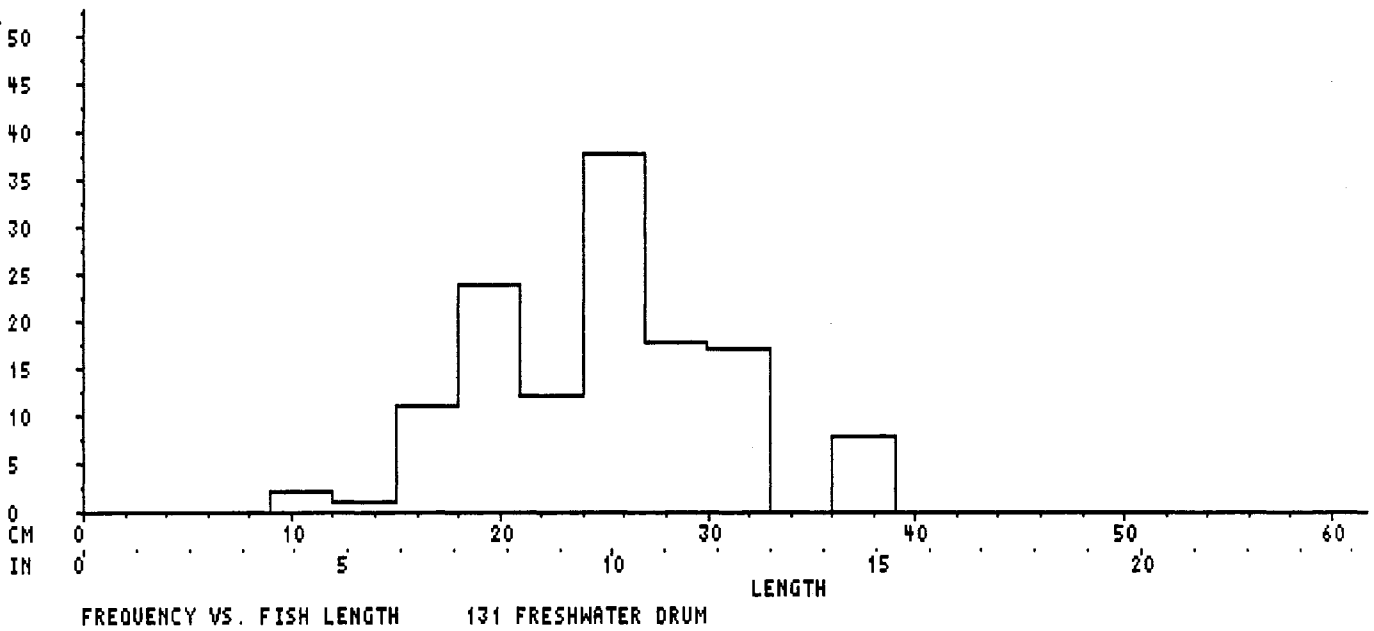


Figure 12. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of freshwater drum released by all anglers.

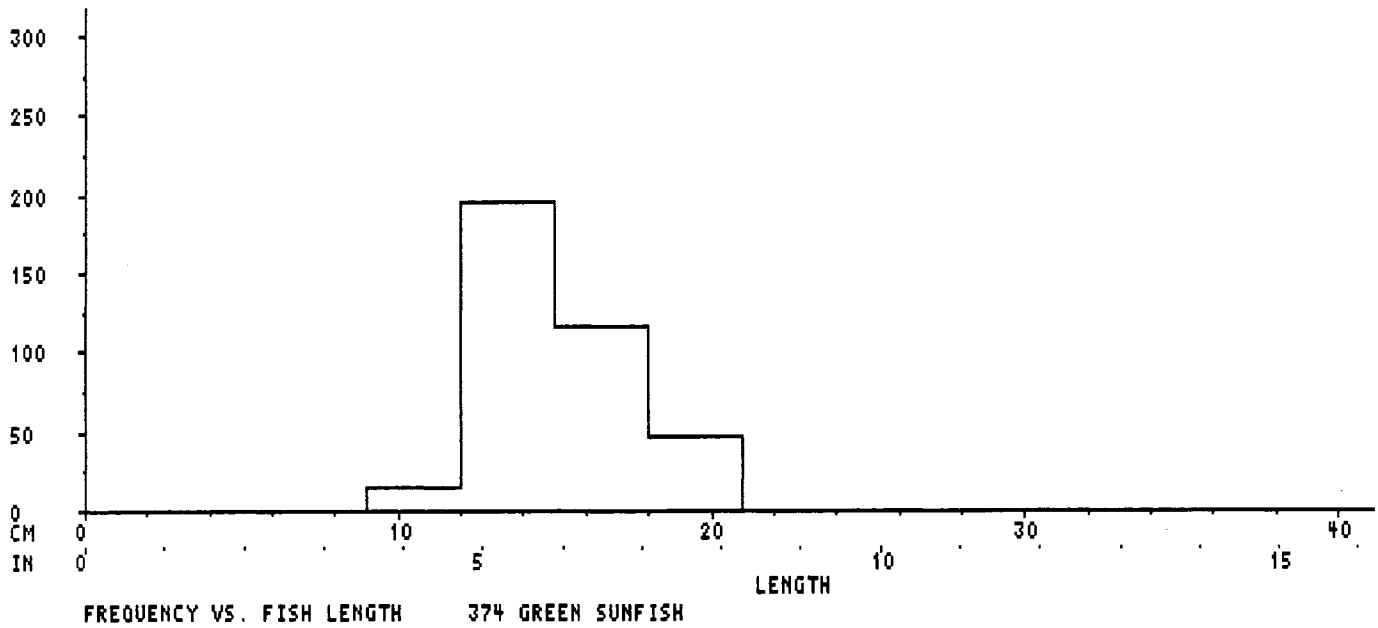


Figure 13. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of green sunfish harvested by all anglers.

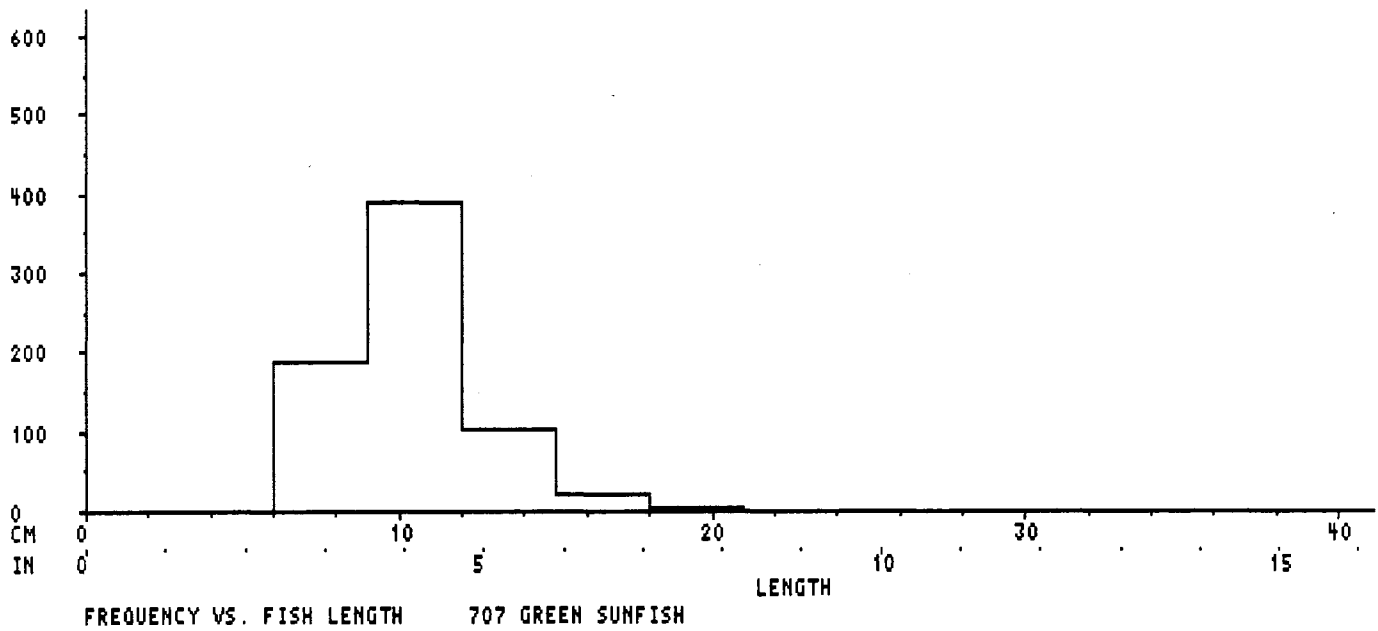


Figure 14. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of green sunfish released by all anglers. Note the difference in scale from Figure 13.

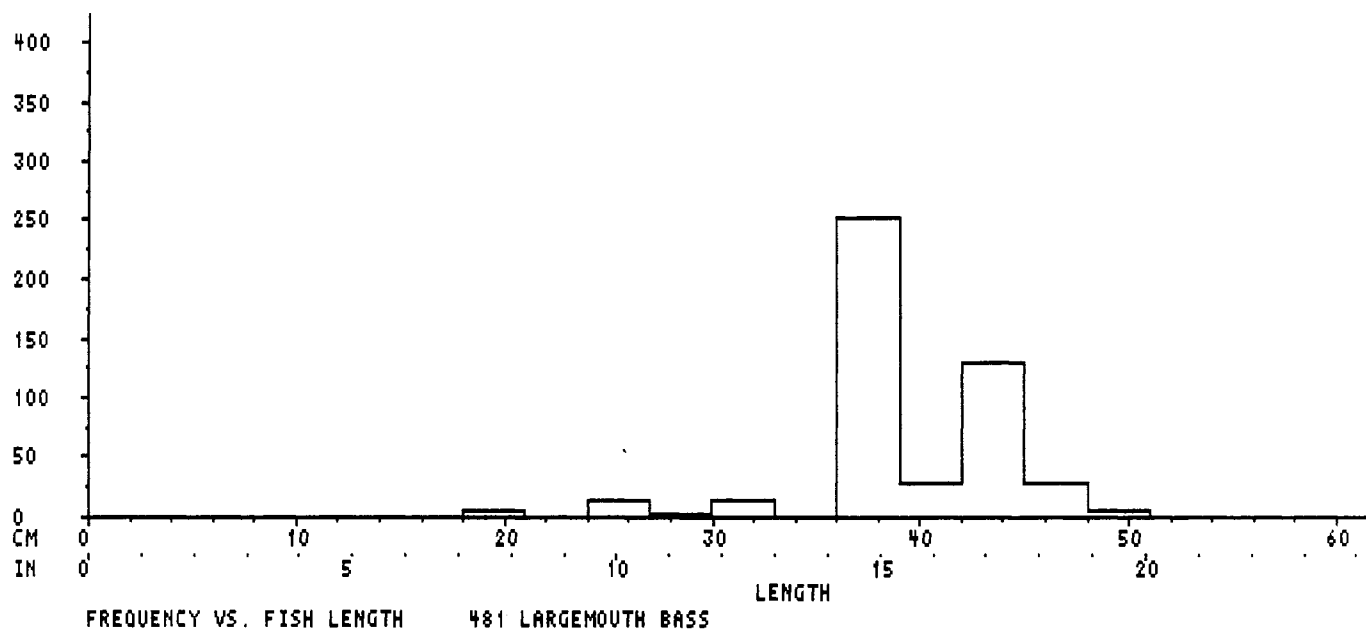


Figure 15. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

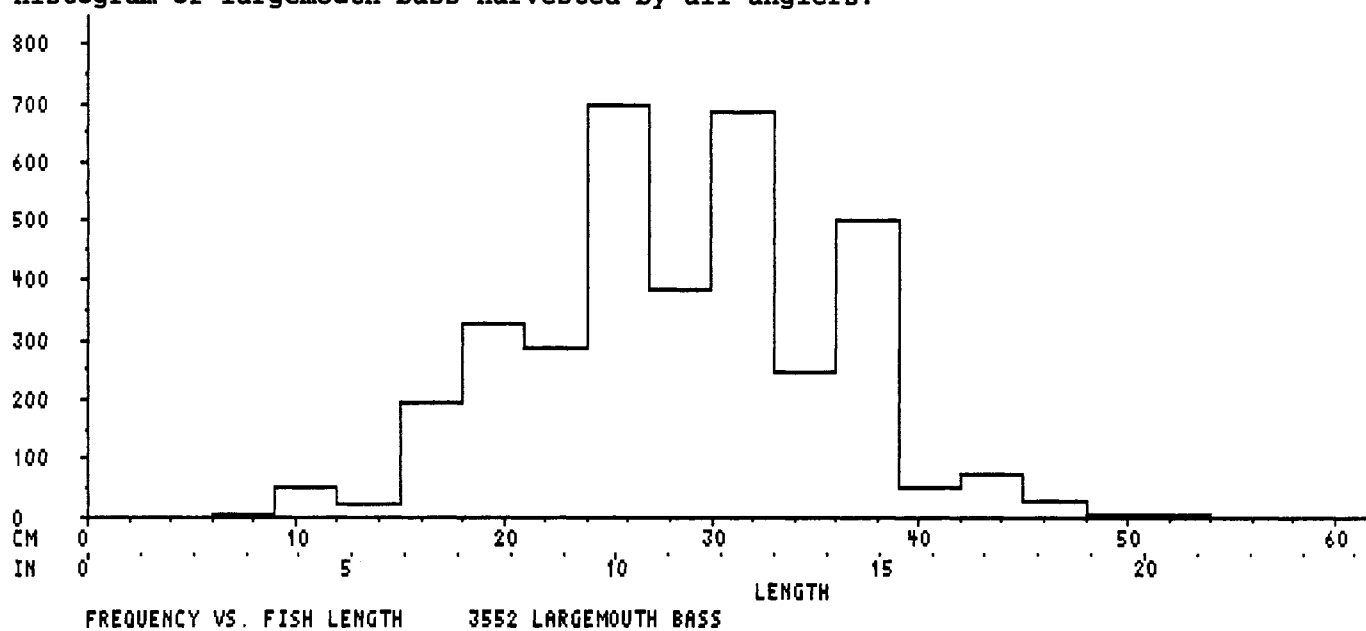


Figure 16. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 15.

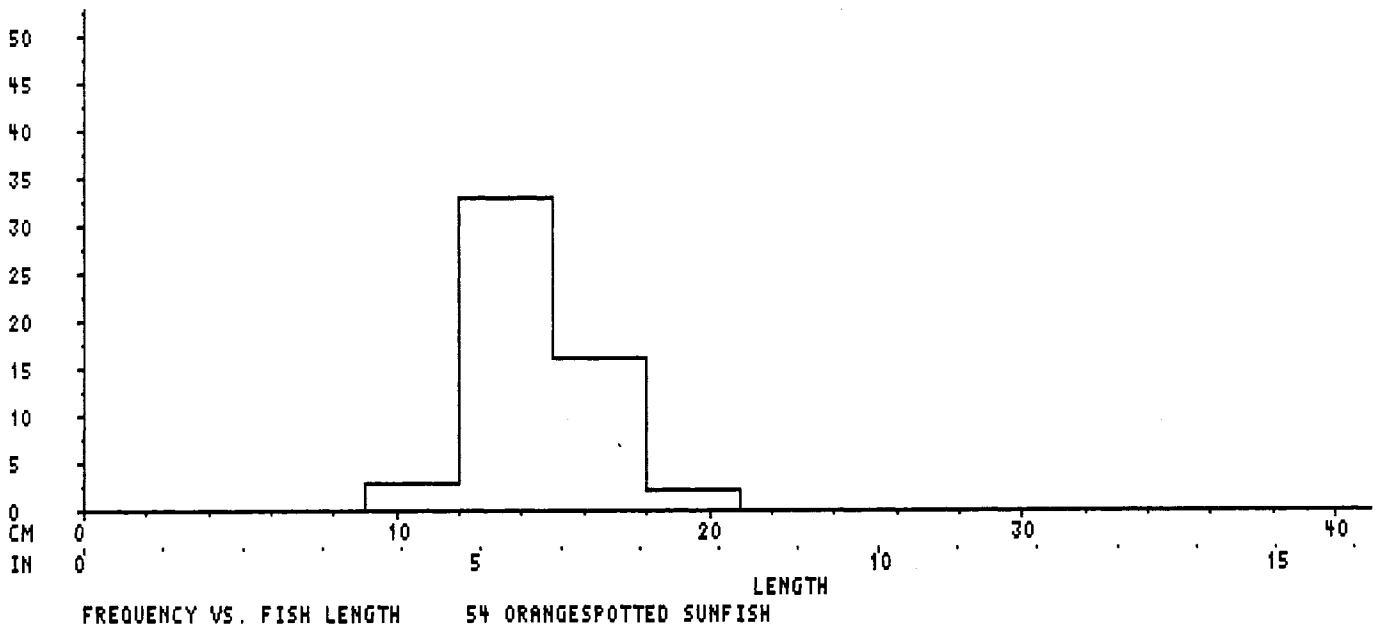


Figure 17. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of orangespotted sunfish harvested by all anglers.

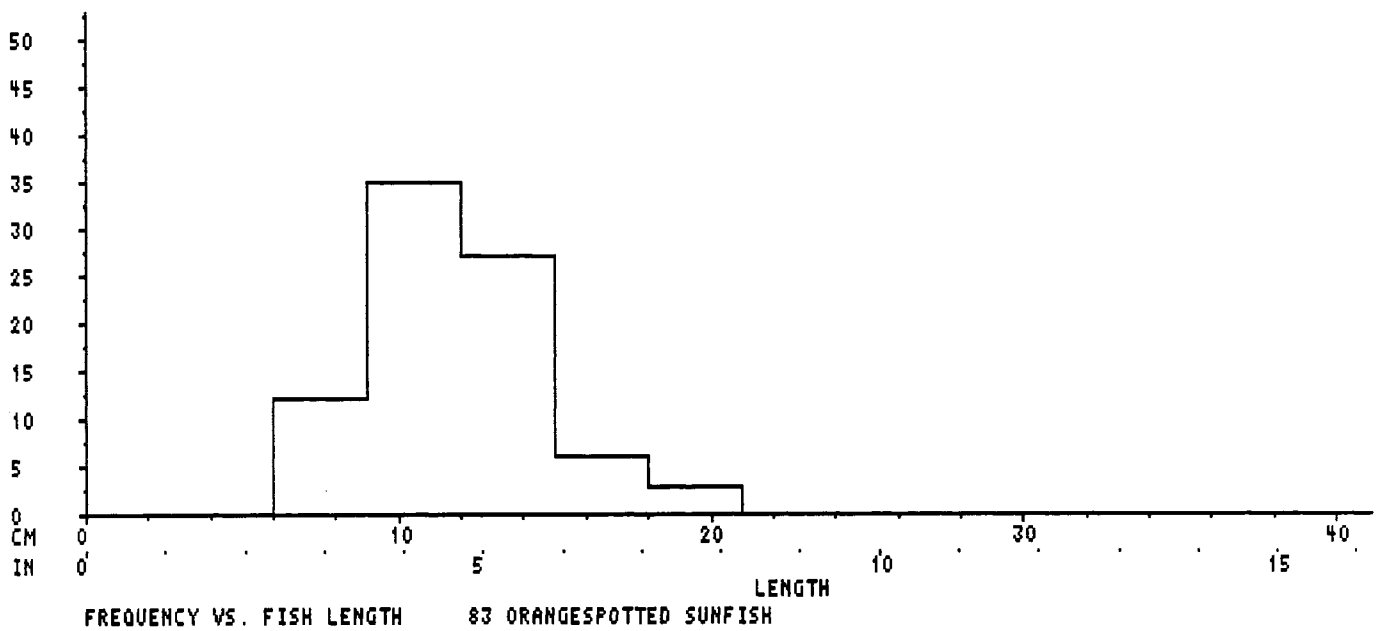


Figure 18. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of orangespotted sunfish released by all anglers.

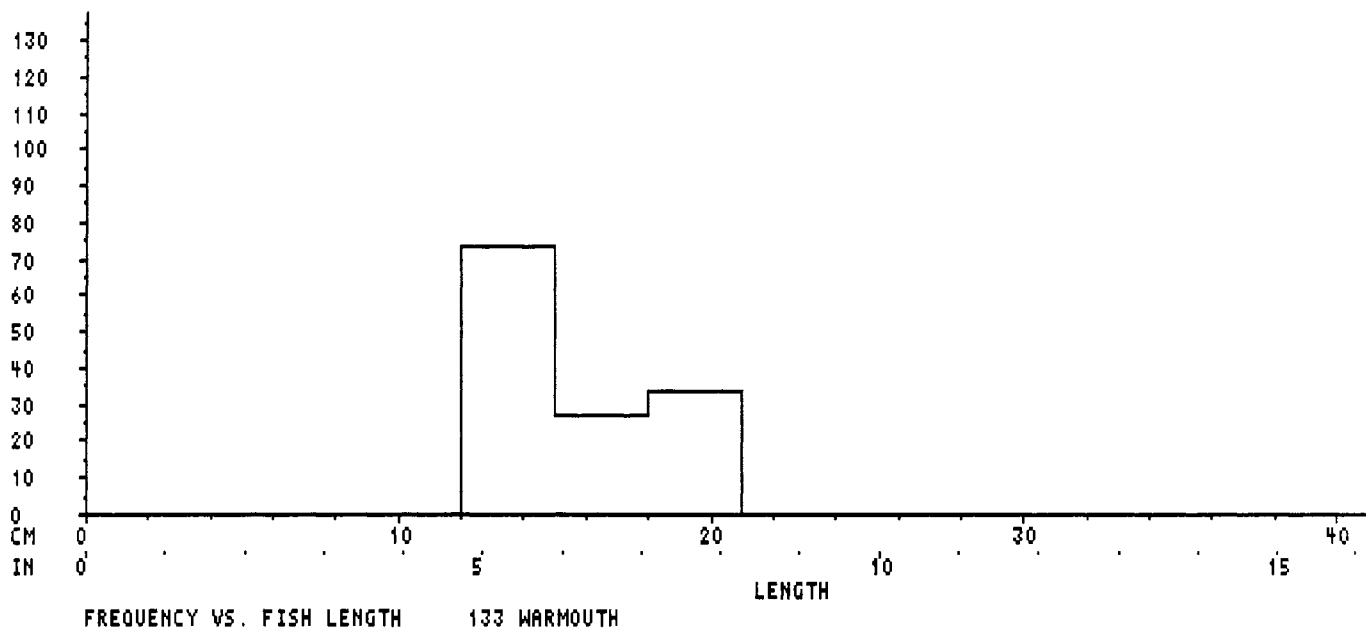


Figure 19. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth harvested by all anglers.

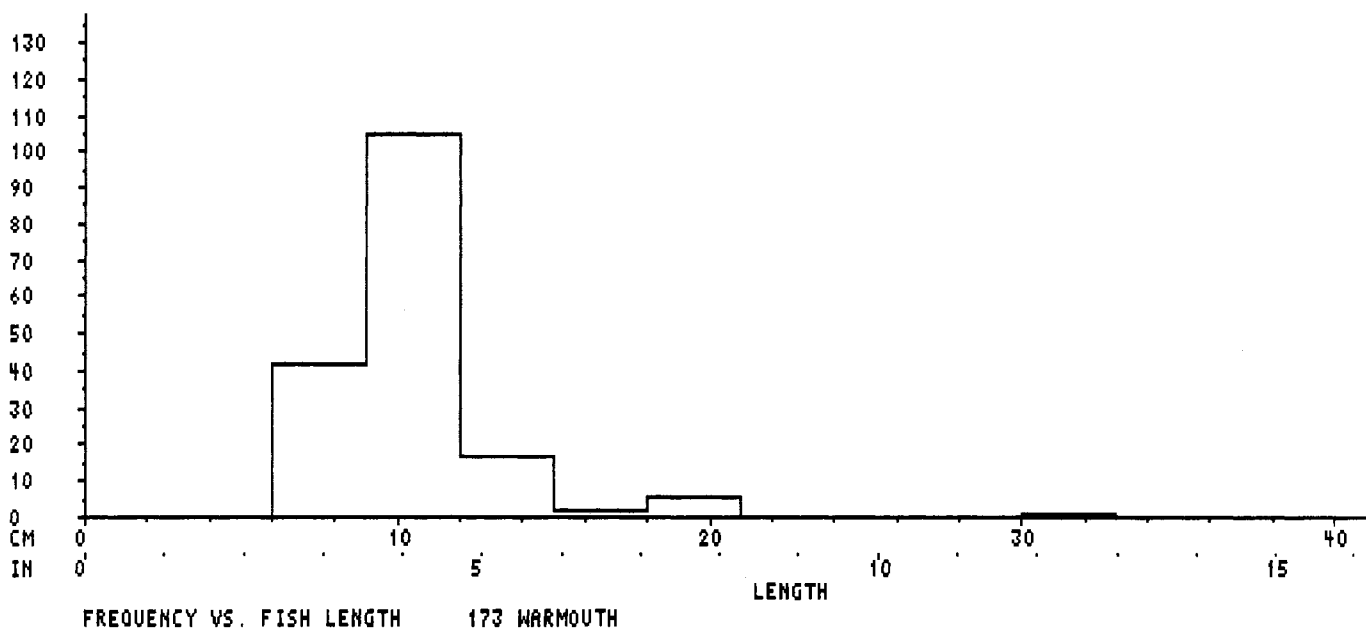


Figure 20. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth released by all anglers.

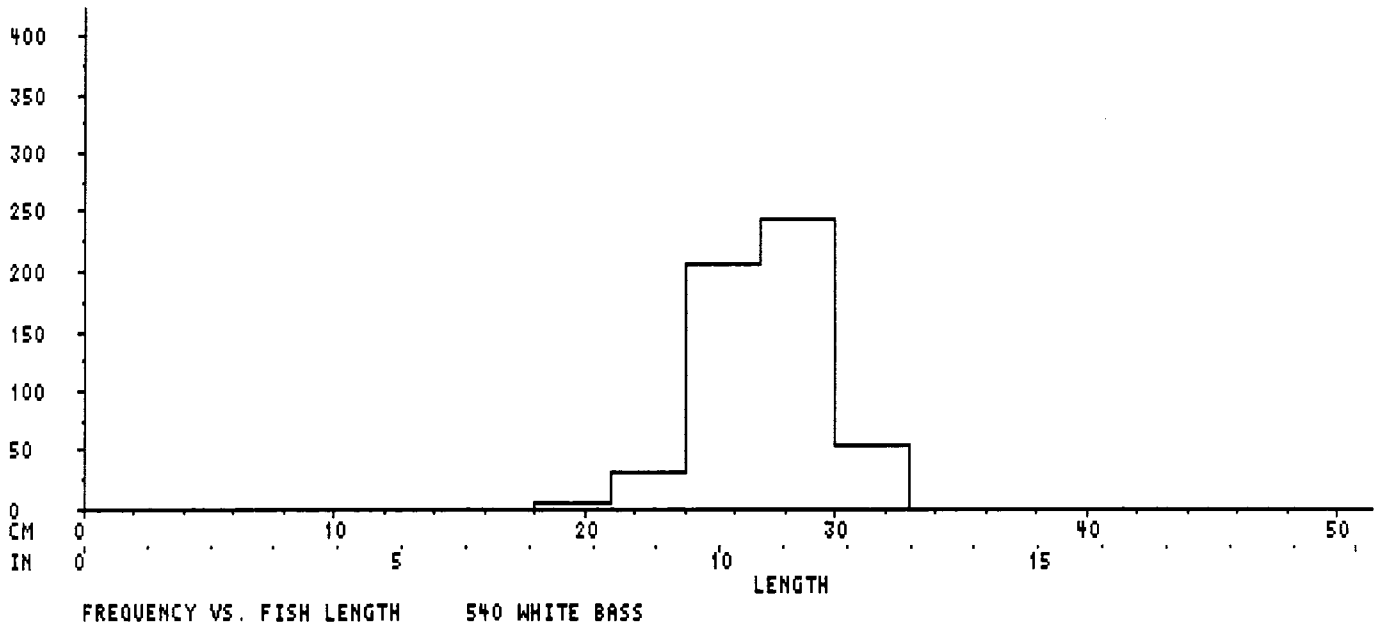


Figure 21. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass harvested by all anglers.

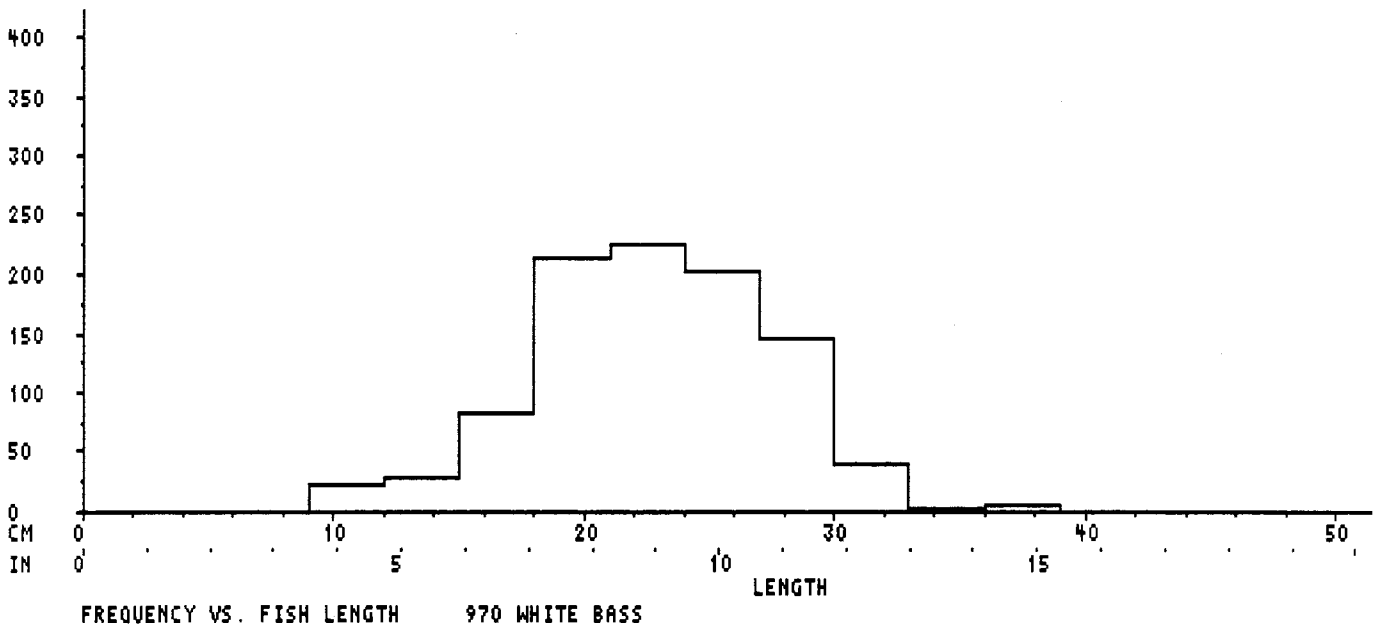


Figure 22. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white bass released by all anglers.

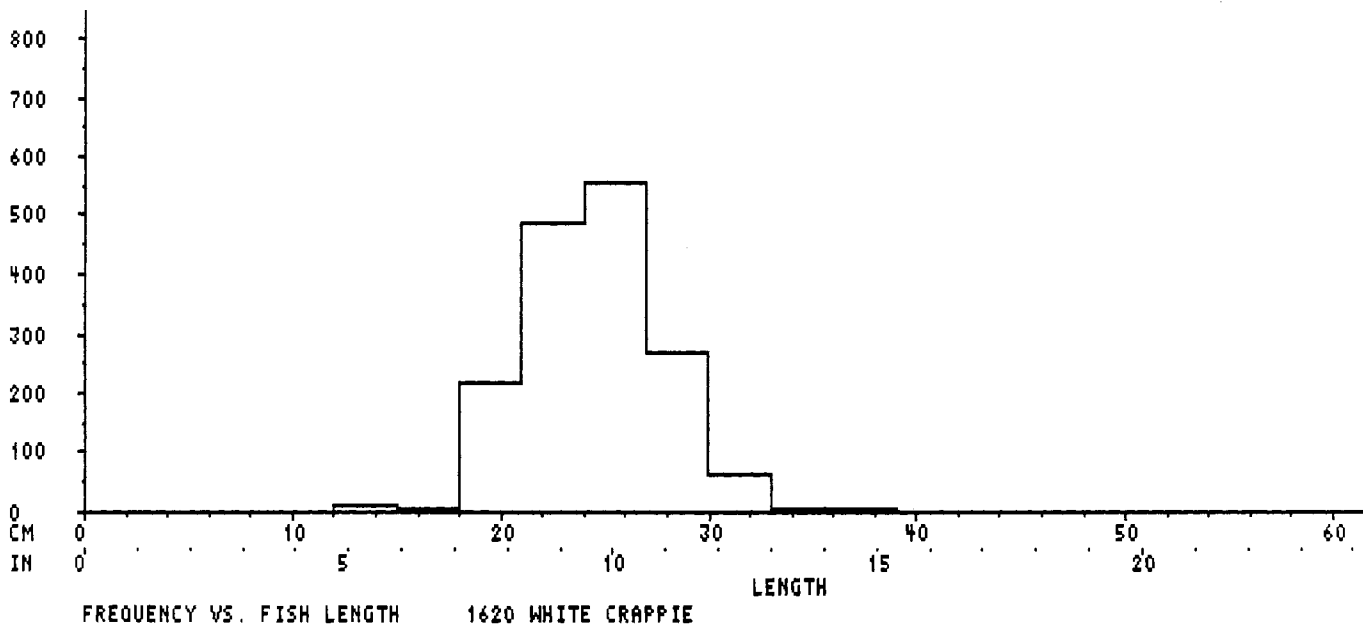


Figure 23. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

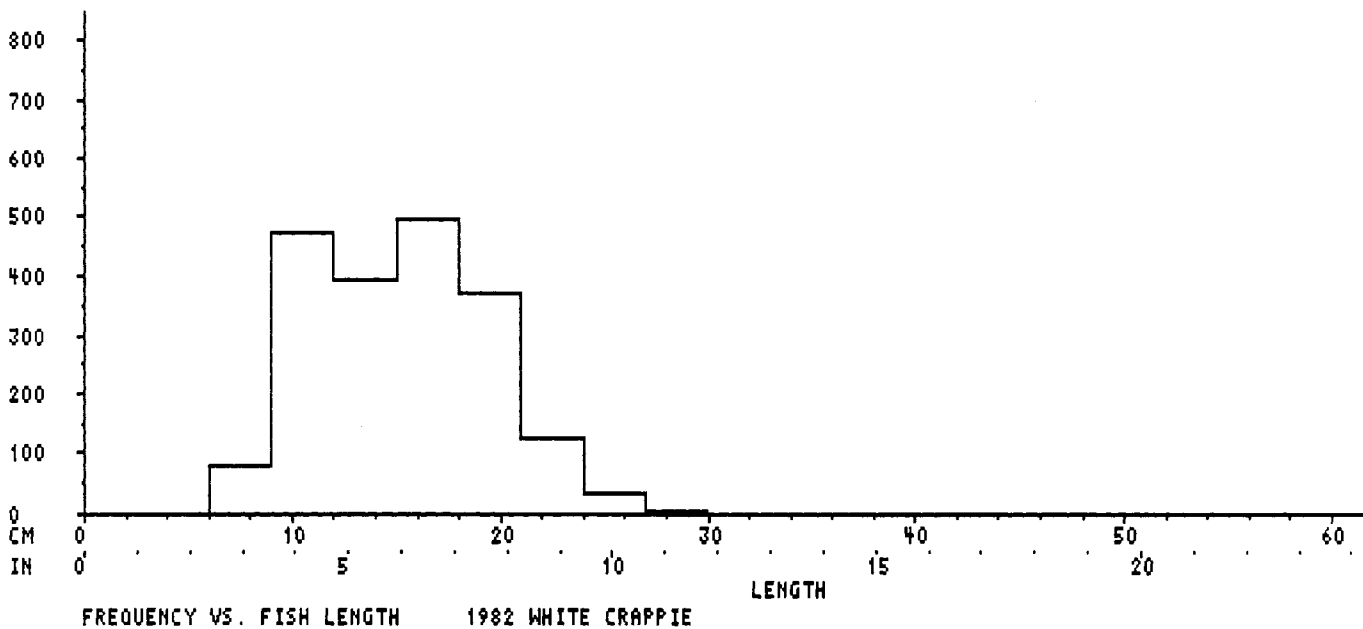


Figure 24. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers.

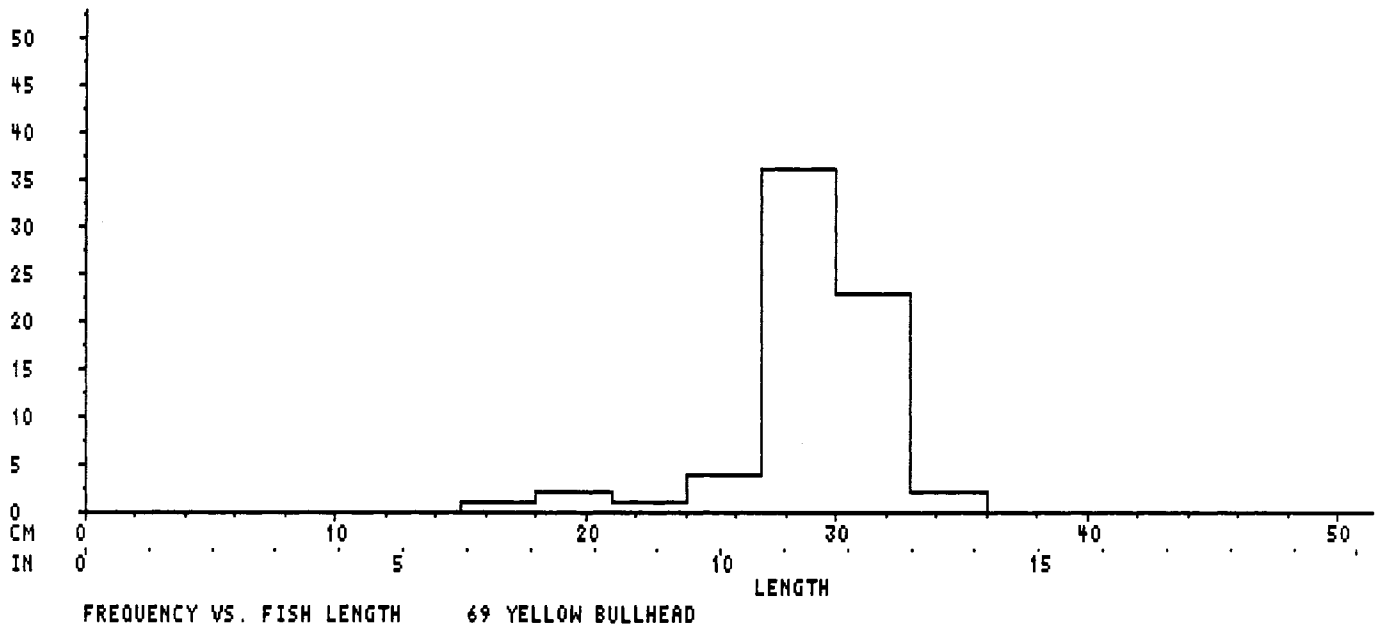


Figure 25. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead harvested by all anglers.

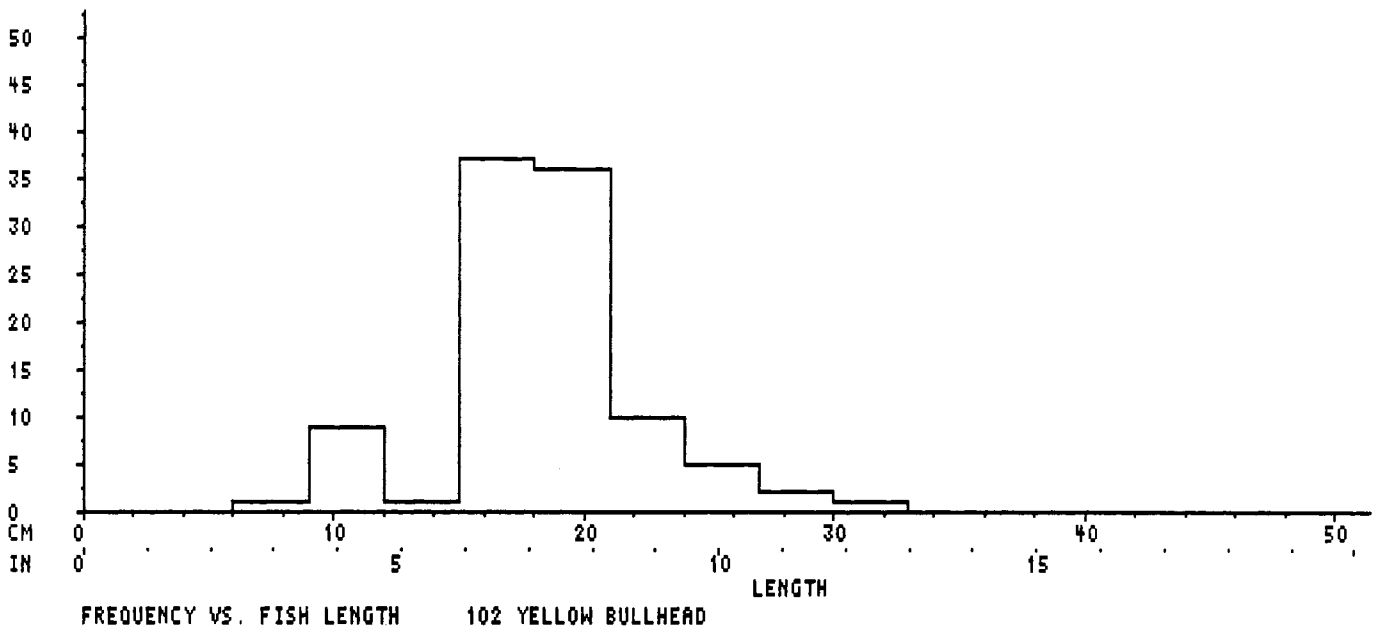


Figure 26. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead released by all anglers.

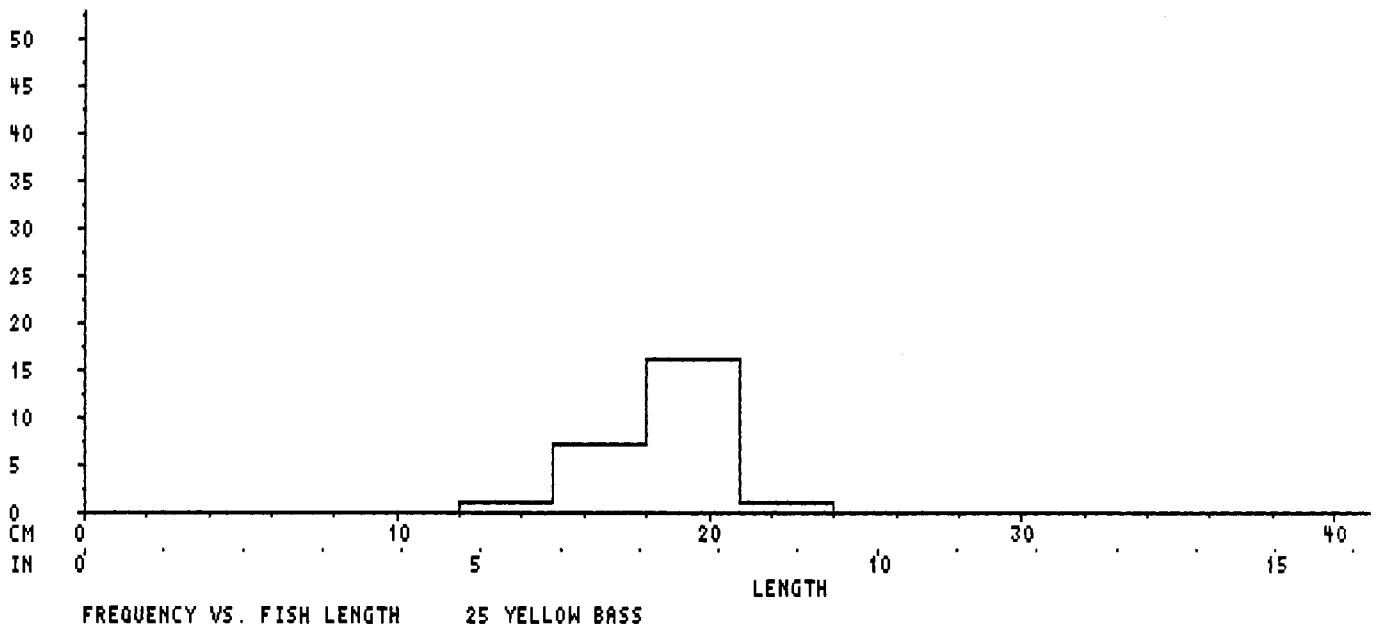


Figure 27. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bass harvested by all anglers.

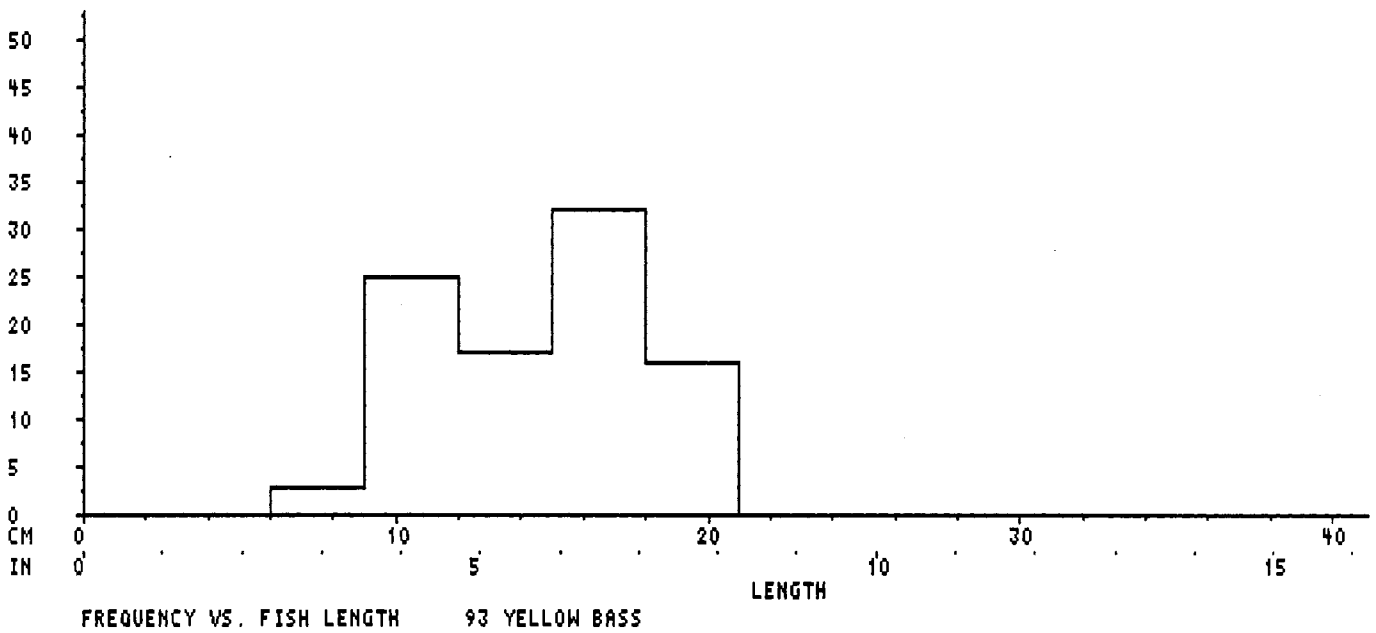


Figure 28. Crab Orchard Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bass released by all anglers.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 LASALLE COOLING LAKE
 1864 ACRES
 REGION 1, DISTRICT 2

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/15/2000
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.
 Yearperiod 6 coalesced with yearperiod 7.

SAMPLING RATIO: 283/645 = 43.9%

NUMBER OF INTERVIEWS: 2831

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	17436	14541-20332 (17%)	9	8-11 (17%)	15%
	HOLIDAY	22900	19475-26326 (15%)	12	10-14 (15%)	22%
	TOTAL	40337	35852-44822 (11%)	22	19-24 (11%)	19%
SHORE	WEEKDAY	19194	17522-20866 (9%)	10	9-11 (9%)	16%
	HOLIDAY	20046	18240-21852 (9%)	11	10-12 (9%)	35%
	TOTAL	39240	36779-41701 (6%)	21	20-22 (6%)	26%
BOAT & SHORE	WEEKDAY	36630	33287-39974 (9%)	20	18-21 (9%)	15%
	HOLIDAY	42947	39075-46819 (9%)	23	21-25 (9%)	28%
	TOTAL	79577	74461-84693 (6%)	43	40-45 (6%)	22%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
73120	65045-81194	(11%)	.834	.754-.913 (10%)	96.93	39.23	All species
65	7-123	(89%)	.001	.000-.001 (86%)	0.09	0.04	Blue catfish
29	0-65	(125%)	.001	.000-.002 (142%)	0.04	0.02	Black bullhead
			****	NOT RECORDED	****		Black crappie
41206	34381-48031	(17%)	.439	.378-.501 (14%)	54.62	22.10	Bluegill
12	0-24	(105%)	.000	.000-.000 (284%)	0.02	0.01	Carp
22084	19080-25089	(14%)	.279	.238-.320 (15%)	29.27	11.85	Channel catfish
41	0-84	(105%)	.001	.000-.001 (113%)	0.05	0.02	Flathead catfish
244	135-353	(45%)	.002	.001-.003 (50%)	0.32	0.13	Freshwater drum
			****	NOT RECORDED	****		Green sunfish
			****	NOT RECORDED	****		Gizzard shad
11	0-24	(110%)	.000	.000-.000 (105%)	0.01	0.01	Largemouth bass
			****	NOT RECORDED	****		Sauger
1584	1012-2156	(36%)	.015	.008-.021 (45%)	2.10	0.85	Striped bass hybrid
227	4-449	(98%)	.003	.001-.005 (67%)	0.30	0.12	Smallmouth bass
			****	NOT RECORDED	****		Striped bass
9	0-21	(134%)	.000	.000-.000 (235%)	0.01	0.00	Walleye
885	477-1292	(46%)	.009	.004-.015 (54%)	1.17	0.47	White bass
149	0-444	(199%)	.001	.000-.002 (161%)	0.20	0.08	White crappie
2398	1613-3183	(33%)	.032	.021-.042 (33%)	3.18	1.29	Yellow bullhead
4176	2745-5607	(34%)	.051	.032-.070 (37%)	5.54	2.24	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
11856	10395-13316	(12%)	.126	.113-.139 (10%)	15.72	0.162	All species
33	5-61	(84%)	.000	.000-.000 (70%)	0.04	0.507	Blue catfish
9	0-21	(135%)	.000	.000-.001 (150%)	0.01	0.302	Black bullhead
			****	NOT RECORDED	****		Black crappie
2903	2338-3468	(19%)	.029	.024-.033 (16%)	3.85	0.070	Bluegill
13	0-28	(117%)	.000	.000-.000 (186%)	0.02	1.128	Carp
5796	5023-6569	(13%)	.068	.058-.077 (14%)	7.68	0.262	Channel catfish
19	3-36	(84%)	.000	.000-.001 (108%)	0.03	0.470	Flathead catfish
94	52-136	(45%)	.001	.000-.001 (53%)	0.12	0.386	Freshwater drum
			****	NOT RECORDED	****		Green sunfish
			****	NOT RECORDED	****		Gizzard shad
18	0-40	(114%)	.000	.000-.000 (108%)	0.02	1.635	Largemouth bass
			****	NOT RECORDED	****		Sauger
1218	404-2033	(67%)	.007	.004-.010 (42%)	1.62	0.769	Striped bass hybrid
368	19-717	(95%)	.005	.002-.008 (63%)	0.49	1.624	Smallmouth bass
			****	NOT RECORDED	****		Striped bass
10	0-25	(143%)	.000	.000-.000 (244%)	0.01	1.165	Walleye
152	85-220	(44%)	.002	.001-.002 (51%)	0.20	0.172	White bass
75	0-230	(205%)	.000	.000-.001 (173%)	0.10	0.507	White crappie
346	201-490	(42%)	.004	.003-.006 (40%)	0.46	0.144	Yellow bullhead
799	542-1056	(32%)	.010	.006-.013 (34%)	1.06	0.191	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
26137	22918-29356	(12%)	.278	.249-.306 (10%)	14.02	0.357	All species
73	12-134	(84%)	.001	.000-.001 (70%)	0.04	1.119	Blue catfish
19	0-45	(135%)	.001	.000-.001 (150%)	0.01	0.665	Black bullhead
			****	NOT RECORDED ****			Black crappie
6400	5154-7645	(19%)	.063	.053-.074 (16%)	3.43	0.155	Bluegill
29	0-63	(117%)	.000	.000-.001 (186%)	0.02	2.487	Carp
12778	11074-14483	(13%)	.149	.128-.171 (14%)	6.85	0.579	Channel catfish
43	7-79	(84%)	.001	.000-.002 (108%)	0.02	1.037	Flathead catfish
208	114-301	(45%)	.001	.001-.002 (53%)	0.11	0.851	Freshwater drum
			****	NOT RECORDED ****			Green sunfish
			****	NOT RECORDED ****			Gizzard shad
41	0-87	(114%)	.000	.000-.001 (108%)	0.02	3.605	Largemouth bass
			****	NOT RECORDED ****			Sauger
2686	891-4481	(67%)	.016	.009-.022 (42%)	1.44	1.696	Striped bass hybrid
812	42-1582	(95%)	.010	.004-.017 (63%)	0.44	3.580	Smallmouth bass
			****	NOT RECORDED ****			Striped bass
22	0-55	(143%)	.000	.000-.000 (244%)	0.01	2.568	Walleye
336	188-484	(44%)	.003	.002-.005 (51%)	0.18	0.380	White bass
166	0-507	(205%)	.001	.000-.002 (173%)	0.09	1.118	White crappie
762	444-1081	(42%)	.010	.006-.014 (40%)	0.41	0.318	Yellow bullhead
1762	1195-2329	(32%)	.021	.014-.029 (34%)	0.95	0.422	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
179034	162640-195429 (9%)	2.078	1.928-2.229 (7%)	237.32	96.04	All species
121	0-243 (101%)	.001	.000-.002 (86%)	0.16	0.06	Blue catfish
45	1-89 (98%)	.001	.000-.002 (131%)	0.06	0.02	Black bullhead
24	0-59 (150%)	.000	.000-.001 (156%)	0.03	0.01	Black crappie
52661	44672-60649 (15%)	.565	.487-.643 (14%)	69.81	28.25	Bluegill
325	135-514 (58%)	.004	.001-.007 (66%)	0.43	0.17	Carp
37415	33562-41268 (10%)	.500	.445-.555 (11%)	49.60	20.07	Channel catfish
90	21-159 (77%)	.001	.000-.002 (69%)	0.12	0.05	Flathead catfish
4959	4126-5791 (17%)	.059	.046-.071 (21%)	6.57	2.66	Freshwater drum
395	0-1167 (196%)	.005	.000-.016 (234%)	0.52	0.21	Green sunfish
4	0-12 (236%)	.000	.000-.000 (236%)	0.00	0.00	Gizzard shad
1449	878-2020 (39%)	.016	.007-.024 (56%)	1.92	0.78	Largemouth bass
57	0-130 (126%)	.000	.000-.001 (120%)	0.08	0.03	Sauger
34168	29360-38975 (14%)	.384	.321-.446 (16%)	45.29	18.33	Striped bass hybrid
20402	17383-23421 (15%)	.232	.196-.267 (15%)	27.04	10.94	Smallmouth bass
23	0-54 (139%)	.000	.000-.001 (154%)	0.03	0.01	Striped bass
17	1-33 (94%)	.000	.000-.000 (111%)	0.02	0.01	Walleye
3304	1963-4644 (41%)	.031	.018-.045 (42%)	4.38	1.77	White bass
161	0-458 (184%)	.001	.000-.002 (146%)	0.21	0.09	White crappie
14491	12574-16409 (13%)	.184	.155-.213 (16%)	19.21	7.77	Yellow bullhead
8922	5907-11938 (34%)	.093	.067-.120 (29%)	11.83	4.79	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
27251	24140-30361 (11%)	.299	.258-.340 (14%)	36.12	0.152	All species
43	11-75 (75%)	.000	.000-.001 (73%)	0.06	0.354	Blue catfish
13	0-27 (104%)	.000	.000-.001 (139%)	0.02	0.295	Black bullhead
3	0-11 (242%)	.000	.000-.000 (219%)	0.00	0.131	Black crappie
3693	2999-4387 (19%)	.037	.029-.045 (22%)	4.89	0.070	Bluegill
166	62-269 (62%)	.002	.001-.004 (70%)	0.22	0.511	Carp
7668	6785-8552 (12%)	.093	.082-.104 (12%)	10.16	0.205	Channel catfish
68	0-162 (139%)	.001	.000-.001 (75%)	0.09	0.755	Flathead catfish
1658	1321-1994 (20%)	.021	.016-.027 (27%)	2.20	0.334	Freshwater drum
24	0-54 (127%)	.000	.000-.001 (195%)	0.03	0.061	Green sunfish
0	0-0 (236%)	.000	.000-.000 (245%)	0.00	0.037	Gizzard shad
676	357-996 (47%)	.008	.002-.013 (77%)	0.90	0.467	Largemouth bass
74	0-237 (219%)	.000	.000-.001 (212%)	0.10	1.295	Sauger
3875	2704-5045 (30%)	.033	.023-.043 (30%)	5.14	0.113	Striped bass hybrid
6194	4465-7924 (28%)	.067	.035-.100 (48%)	8.21	0.304	Smallmouth bass
2	0-4 (151%)	.000	.000-.000 (178%)	0.00	0.075	Striped bass
14	0-29 (112%)	.000	.000-.000 (142%)	0.02	0.822	Walleye
317	219-415 (31%)	.003	.002-.004 (33%)	0.42	0.096	White bass
78	0-233 (198%)	.000	.000-.001 (168%)	0.10	0.484	White crappie
1367	1148-1585 (16%)	.018	.014-.022 (21%)	1.81	0.094	Yellow bullhead
1319	880-1758 (33%)	.015	.011-.019 (28%)	1.75	0.148	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
60078	53221-66936	(11%)	.659	.569-.750 (14%)	32.23	0.336	All species
94	24-165	(75%)	.001	.000-.001 (73%)	0.05	0.781	Blue catfish
29	0-60	(104%)	.001	.000-.001 (139%)	0.02	0.651	Black bullhead
7	0-23	(242%)	.000	.000-.000 (219%)	0.00	0.289	Black crappie
8141	6611-9671	(19%)	.081	.063-.098 (22%)	4.37	0.155	Bluegill
365	137-594	(62%)	.005	.001-.008 (70%)	0.20	1.126	Carp
16906	14958-18854	(12%)	.205	.180-.229 (12%)	9.07	0.452	Channel catfish
149	0-357	(139%)	.002	.000-.003 (75%)	0.08	1.664	Flathead catfish
3655	2913-4396	(20%)	.047	.034-.060 (27%)	1.96	0.737	Freshwater drum
53	0-120	(127%)	.001	.000-.002 (195%)	0.03	0.134	Green sunfish
0	0-1	(236%)	.000	.000-.000 (236%)	0.00	0.081	Gizzard shad
1491	787-2195	(47%)	.017	.004-.029 (77%)	0.80	1.029	Largemouth bass
164	0-523	(219%)	.001	.000-.002 (212%)	0.09	2.854	Sauger
8542	5961-11123	(30%)	.072	.050-.094 (30%)	4.58	0.250	Striped bass hybrid
13656	9843-17469	(28%)	.149	.078-.220 (48%)	7.33	0.669	Smallmouth bass
4	0-9	(151%)	.000	.000-.000 (178%)	0.00	0.166	Striped bass
31	0-65	(112%)	.000	.000-.001 (142%)	0.02	1.813	Walleye
698	482-915	(31%)	.006	.004-.008 (33%)	0.37	0.211	White bass
172	0-513	(198%)	.001	.000-.002 (168%)	0.09	1.068	White crappie
3013	2531-3495	(16%)	.039	.031-.047 (21%)	1.62	0.208	Yellow bullhead
2908	1940-3876	(33%)	.033	.024-.042 (28%)	1.56	0.326	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	4.6	4.4-4.7 (3%)	0.8	11.0	798
SHORE	4.4	4.3-4.6 (4%)	0.2	11.9	721
BOAT & SHORE	4.5	4.4-4.6 (3%)	0.2	11.9	1519
MILES TRAVELED	76.1	73.9-78.2 (3%)	4	240	1829
SUCCESS RATING (1-10)	4.5	4.4-4.6 (3%)	1	10	1790

*824 samples were from split interviews of completed trips.
77.4% of all 1963 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 2 out of 1963 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	199	463	129	52	3					
SHORE INTERVIEWS	264	423	211	147	38	31	2	1		

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

794 (40.4%)	ANY	All species
392 (20.0%)	BLG	Bluegill
337 (17.2%)	BSS	Black bass spp.
235 (12.0%)	CCF	Channel catfish
1 (0.1%)	FRD	Freshwater drum
9 (0.5%)	LMB	Largemouth bass
1 (0.1%)	SAR	Sauger
39 (2.0%)	SBH	Striped bass hybrid (Wiper)
100 (5.1%)	SMB	Smallmouth bass
24 (1.2%)	STB	Striped bass
6 (0.3%)	WAE	Walleye
2 (0.1%)	WHB	White bass
19 (1.0%)	WHC	White crappie
4 (0.2%)	YLB	Yellow bass

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Blue catfish																
HARVEST	3398	20	-	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3411	4	2	-	-	2	-	-	-	-	-	-	-	-	-	-
Black bullhead																
HARVEST	3415	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3417	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	3419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3418	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	2258	38	87	100	78	98	89	68	93	56	78	44	52	49	25	206
RELEASE	2992	78	74	65	61	32	29	11	18	6	10	1	10	3	2	27
Carp																
HARVEST	3415	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3378	40	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	2108	361	237	152	141	94	81	68	49	36	26	17	12	10	6	21
RELEASE	2312	322	228	161	92	120	41	28	36	20	17	7	7	5	2	21
Flathead catfish																
HARVEST	3405	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3411	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	3360	57	1	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2761	452	117	57	13	9	2	2	-	-	3	-	2	1	-	-
Green sunfish																
HARVEST	3419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3410	6	1	-	-	2	-	-	-	-	-	-	-	-	-	-
Gizzard shad																
HARVEST	3419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	3417	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3242	128	27	9	6	6	1	-	-	-	-	-	-	-	-	-
Sauger																
HARVEST	3419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3413	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-

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+
Striped bass hybrid (Wiper)																
HARVEST	3213	131	28	26	6	7	4	3	-	-	-	-	-	-	-	1
RELEASE	2084	198	232	227	155	136	79	57	66	34	28	15	16	18	8	66
Smallmouth bass																
HARVEST	3387	31	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2274	383	236	148	103	72	44	60	33	5	10	7	2	8	1	33
Striped bass																
HARVEST	3419	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3413	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	3415	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3415	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White bass																
HARVEST	3357	18	10	-	18	4	3	7	-	1	-	-	-	-	1	-
RELEASE	3334	38	18	9	1	3	6	3	3	-	-	-	-	-	-	4
White crappie																
HARVEST	3412	5	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	3417	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow bullhead																
HARVEST	3225	65	38	36	13	6	8	9	4	4	1	4	4	-	-	2
RELEASE	2598	224	163	106	75	78	49	43	31	14	8	9	11	-	2	8
Yellow bass																
HARVEST	3194	64	34	15	19	39	20	4	7	3	8	-	2	3	2	5
RELEASE	3260	47	21	25	22	7	7	5	6	-	12	1	-	-	-	6

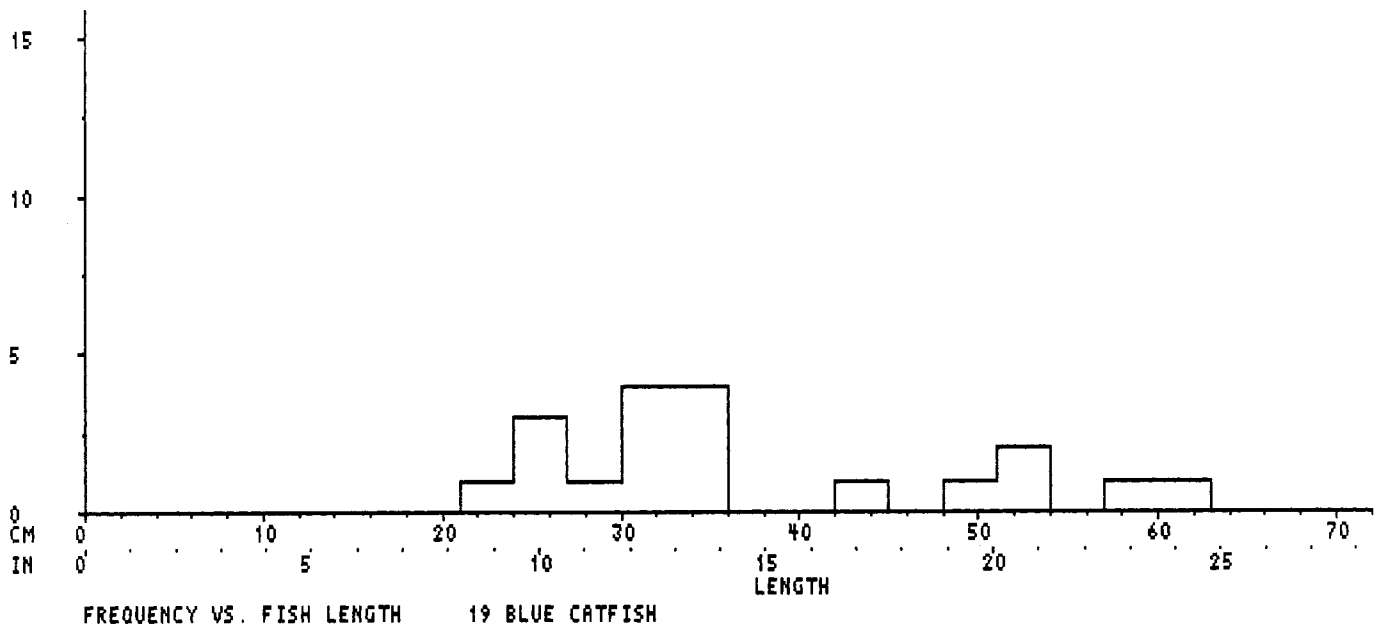


Figure 1. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of blue catfish harvested by all anglers.

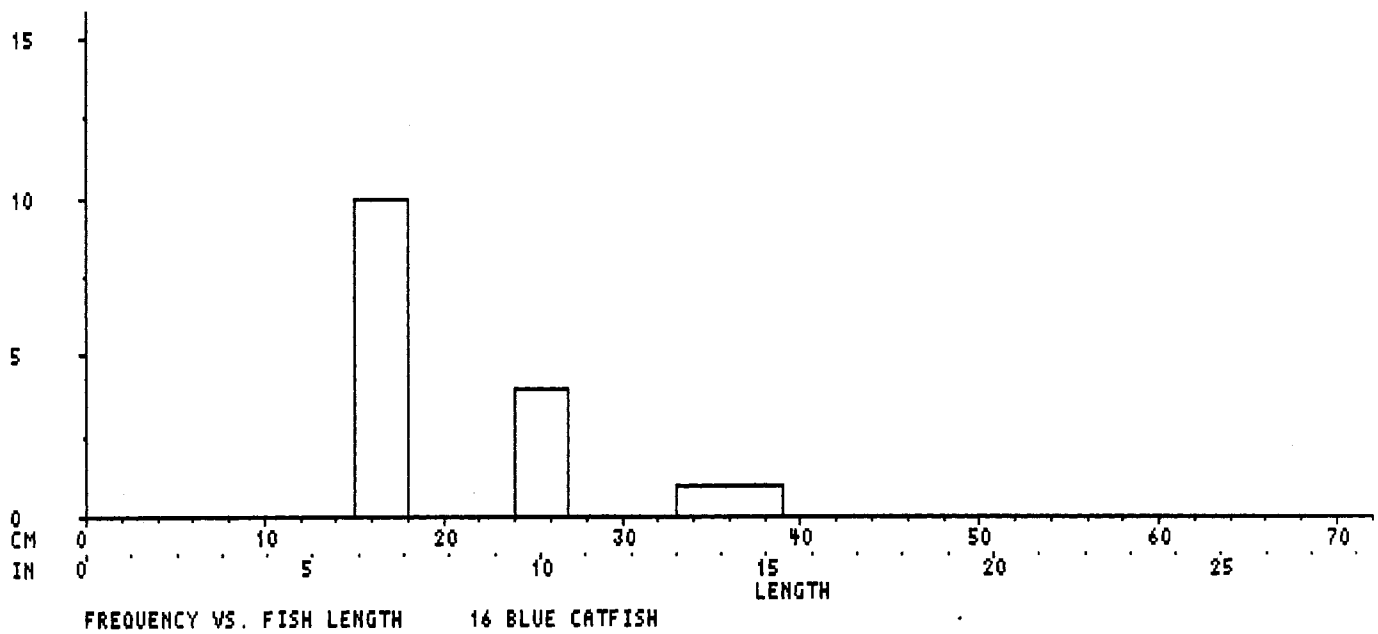


Figure 2. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of blue catfish released by all anglers.

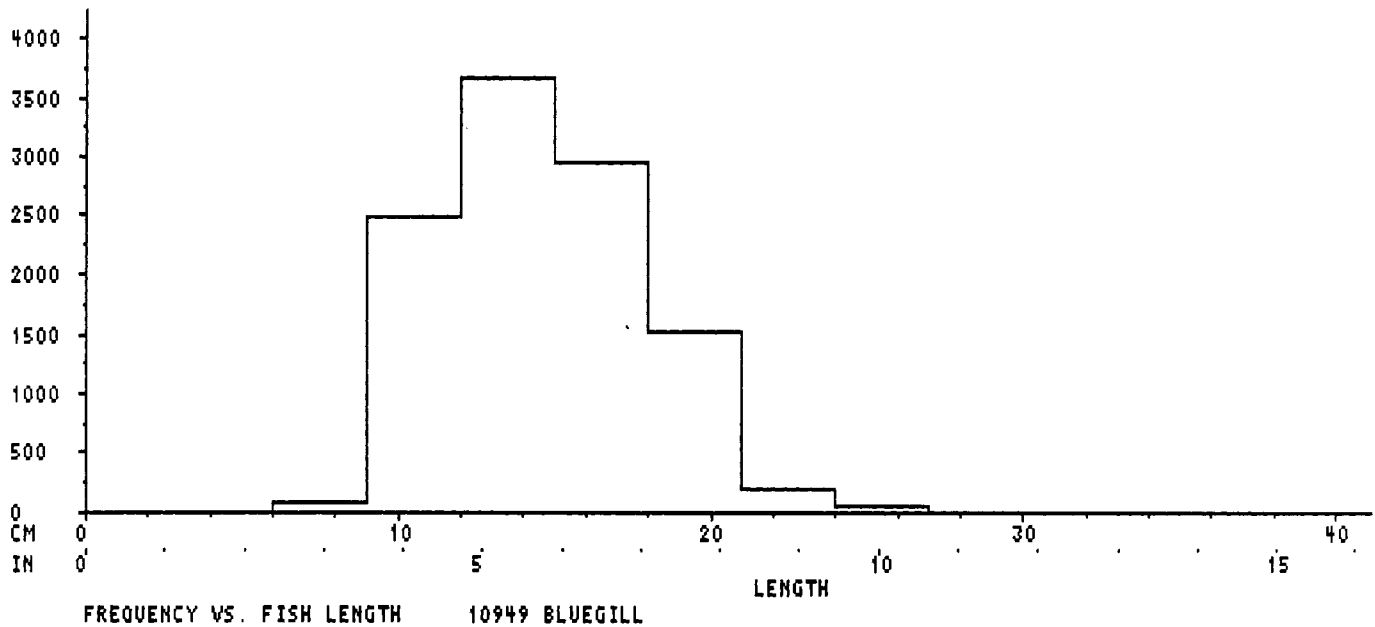


Figure 3. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of bluegill harvested by all anglers.

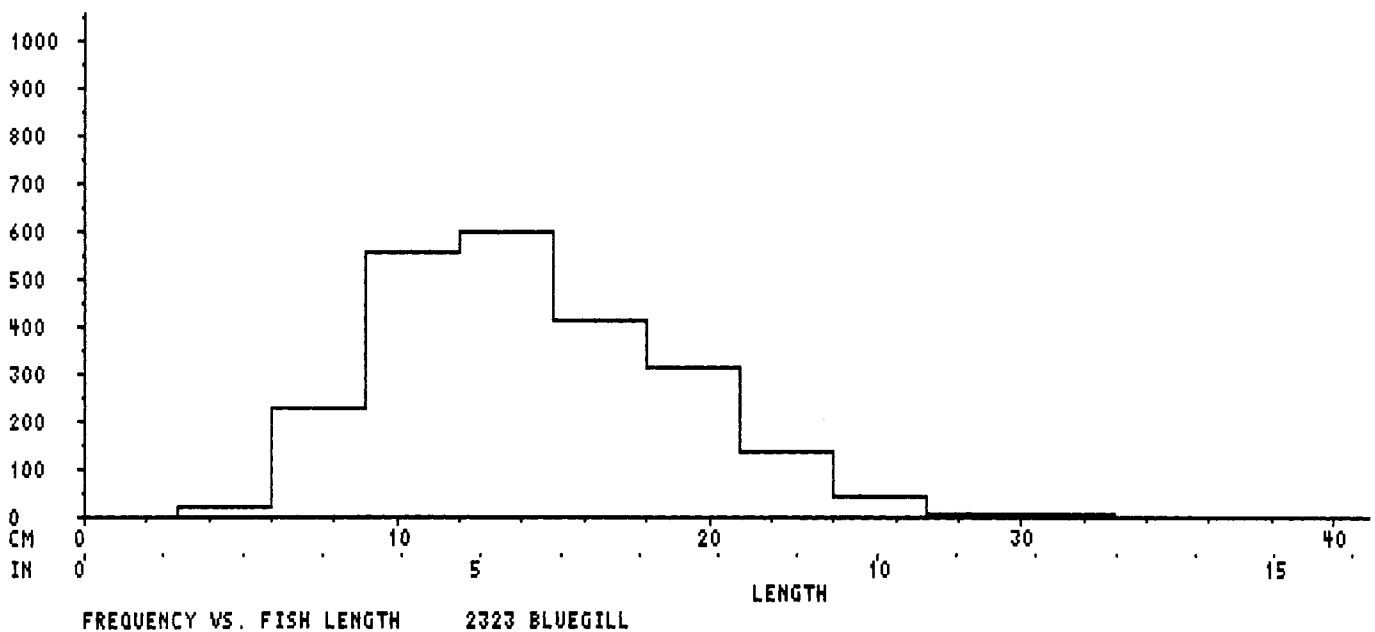


Figure 4. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

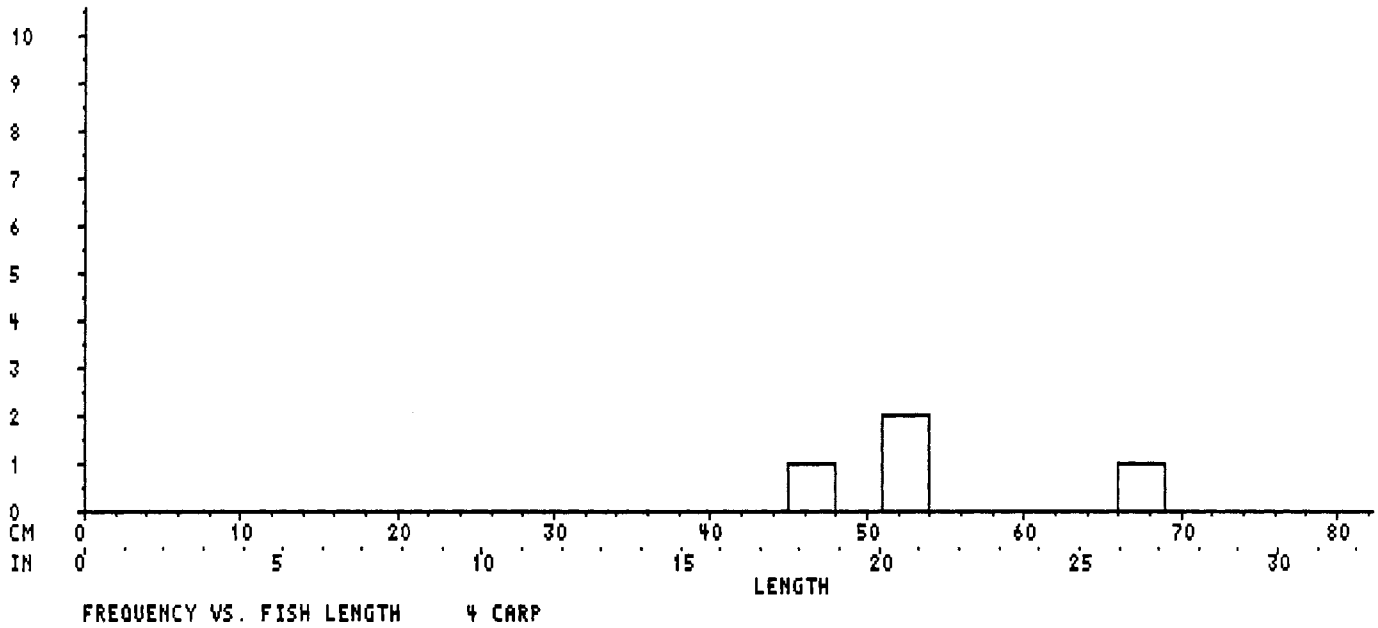


Figure 5. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of carp harvested by all anglers.

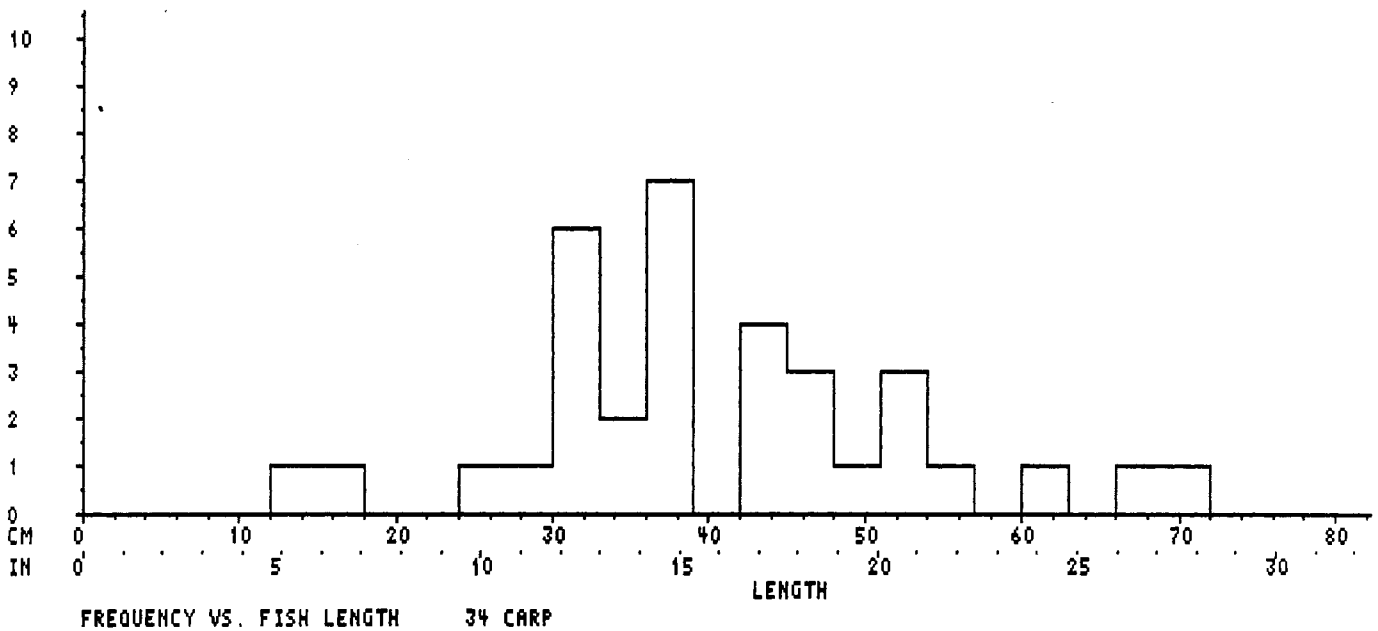


Figure 6. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of carp released by all anglers.

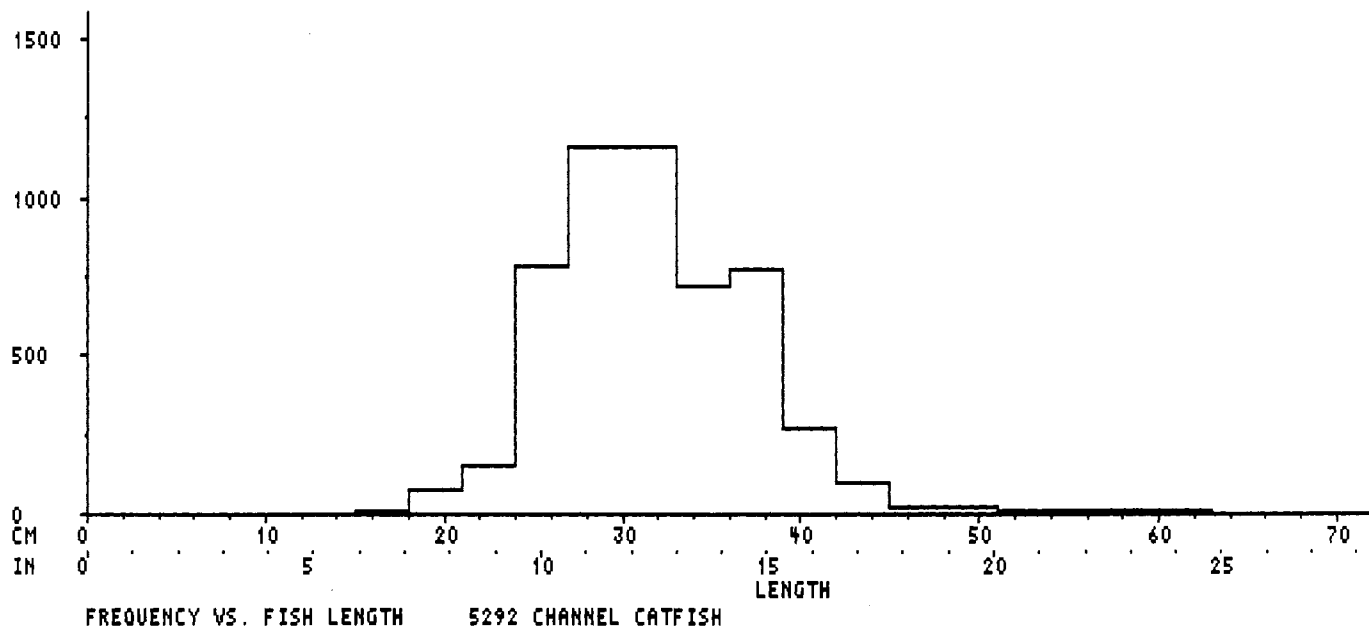


Figure 7. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of channel catfish harvested by all anglers.

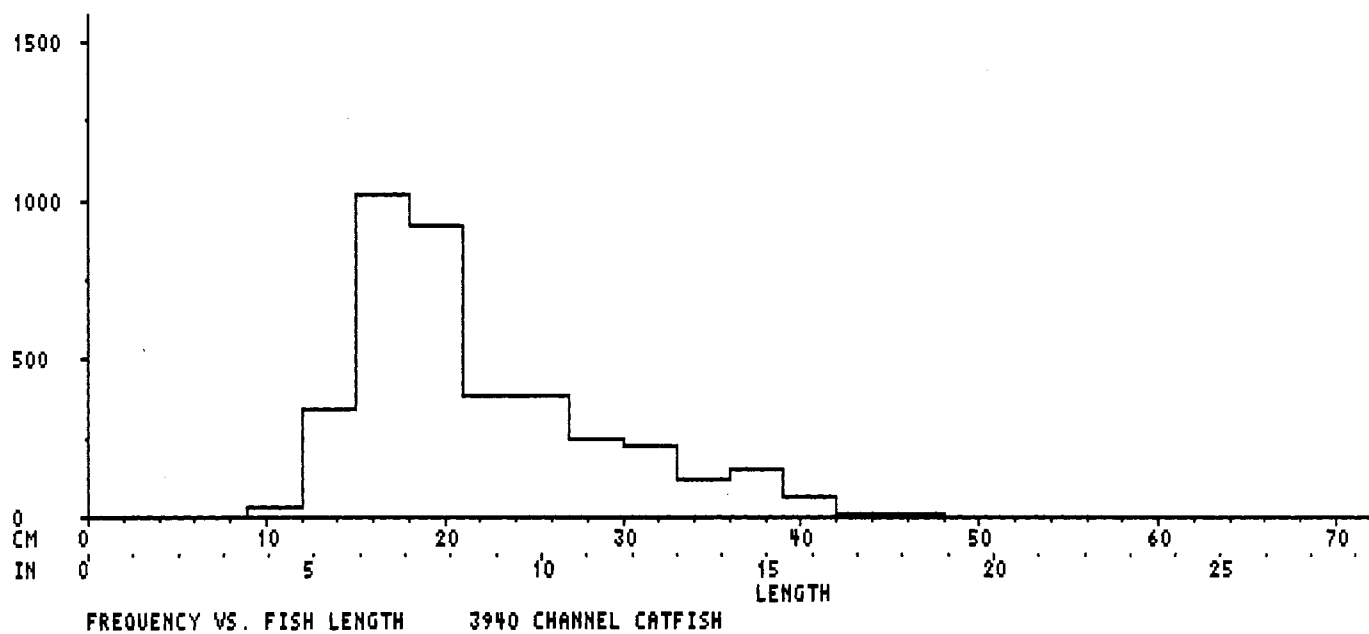


Figure 8. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of channel catfish released by all anglers.

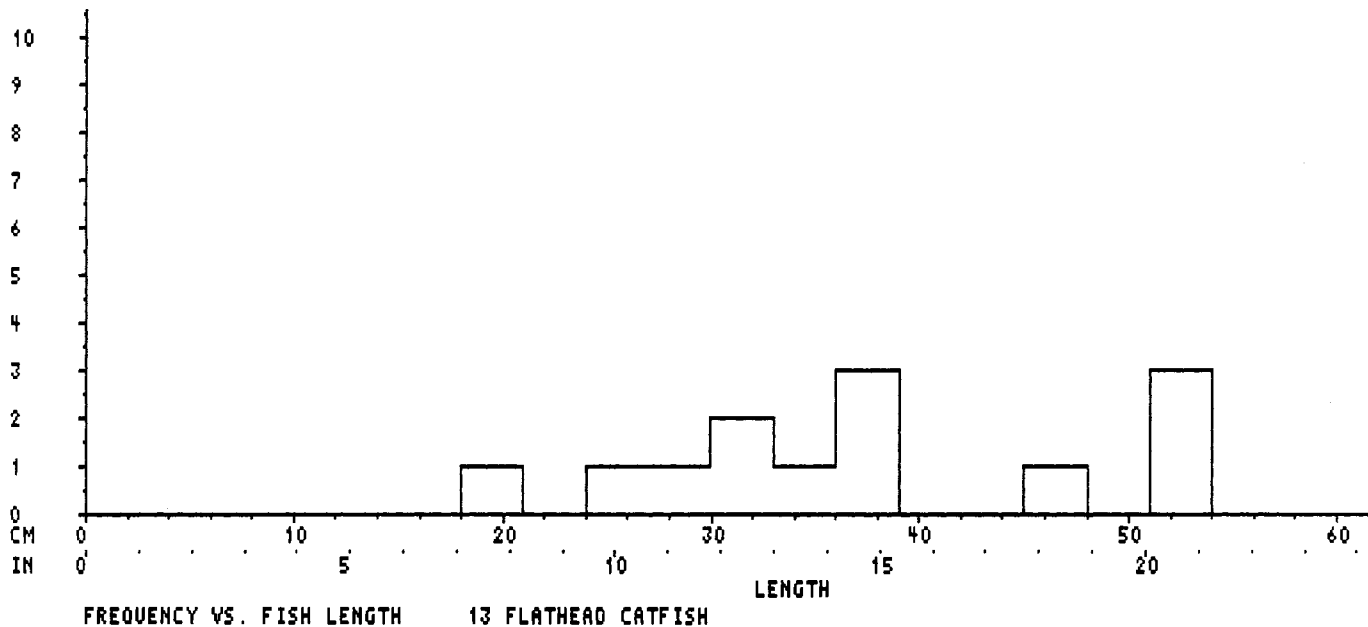


Figure 9. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of flathead catfish harvested by all anglers.

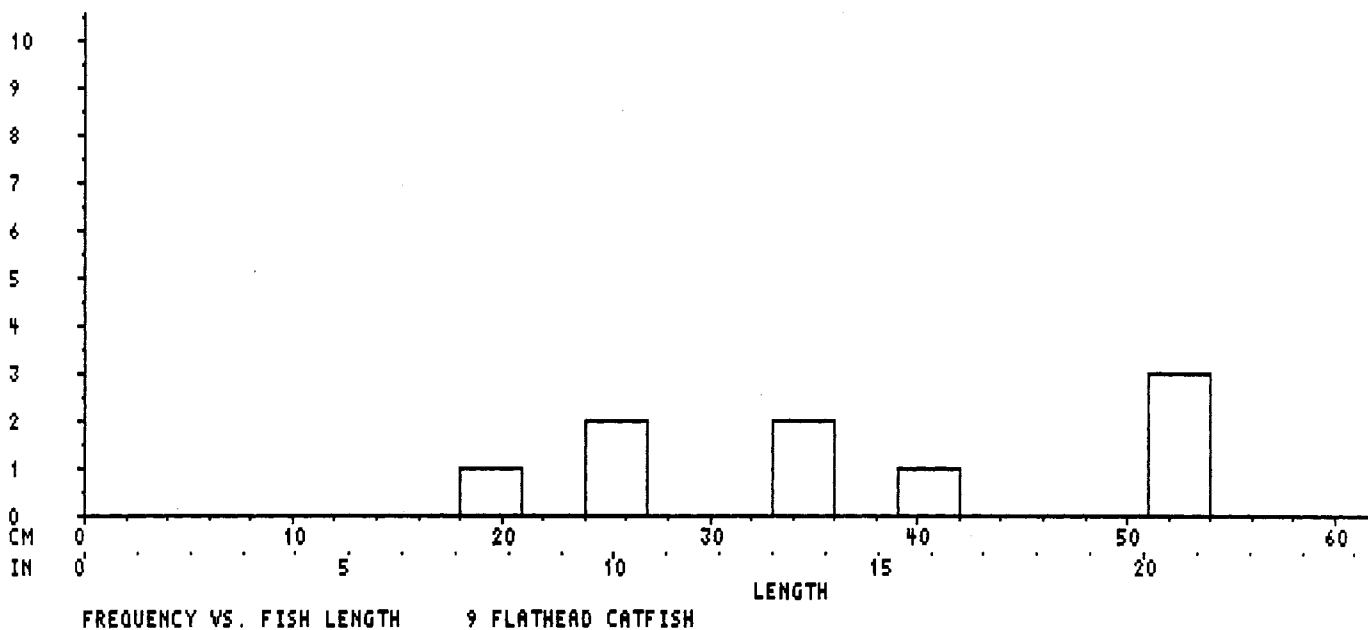


Figure 10. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of flathead catfish released by all anglers.

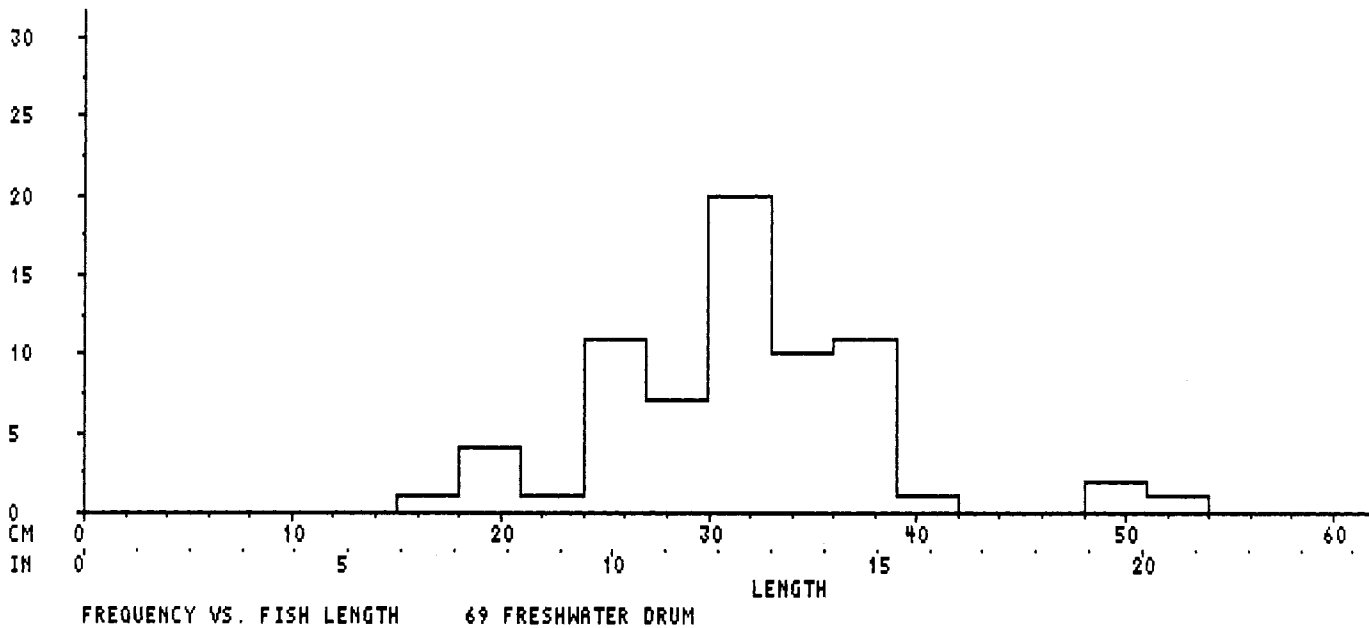


Figure 11. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of freshwater drum harvested by all anglers.

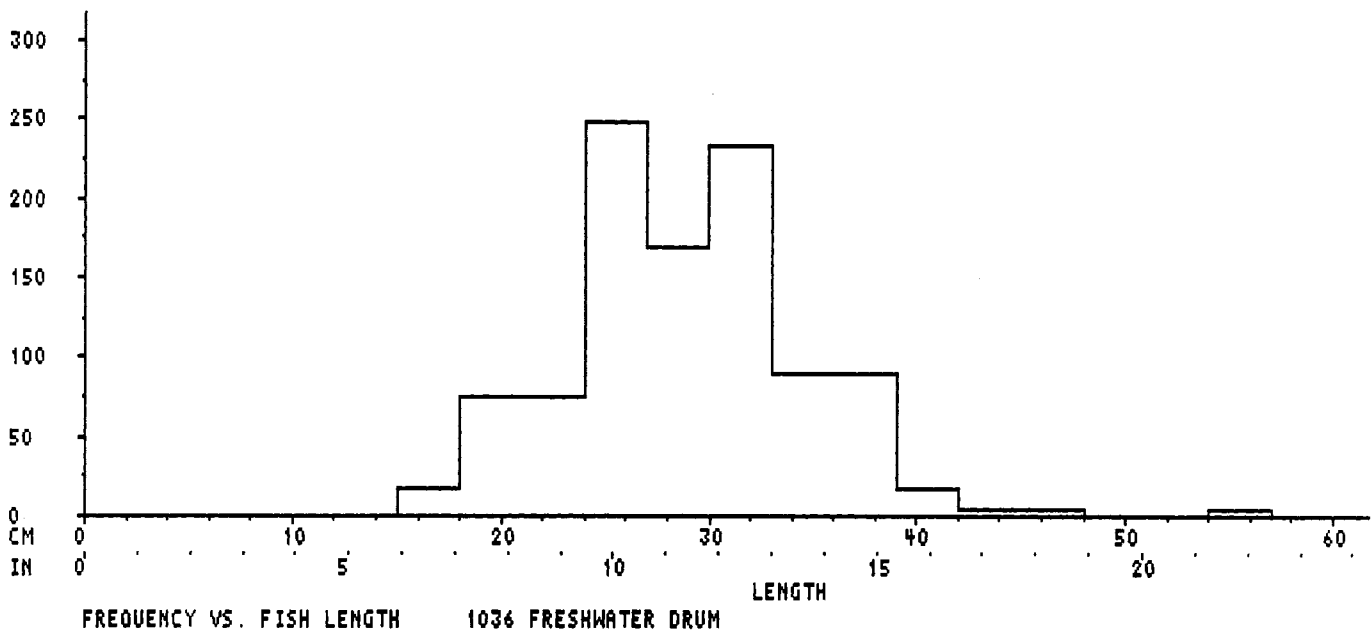


Figure 12. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of freshwater drum released by all anglers. Note the difference in scale from Figure 11.

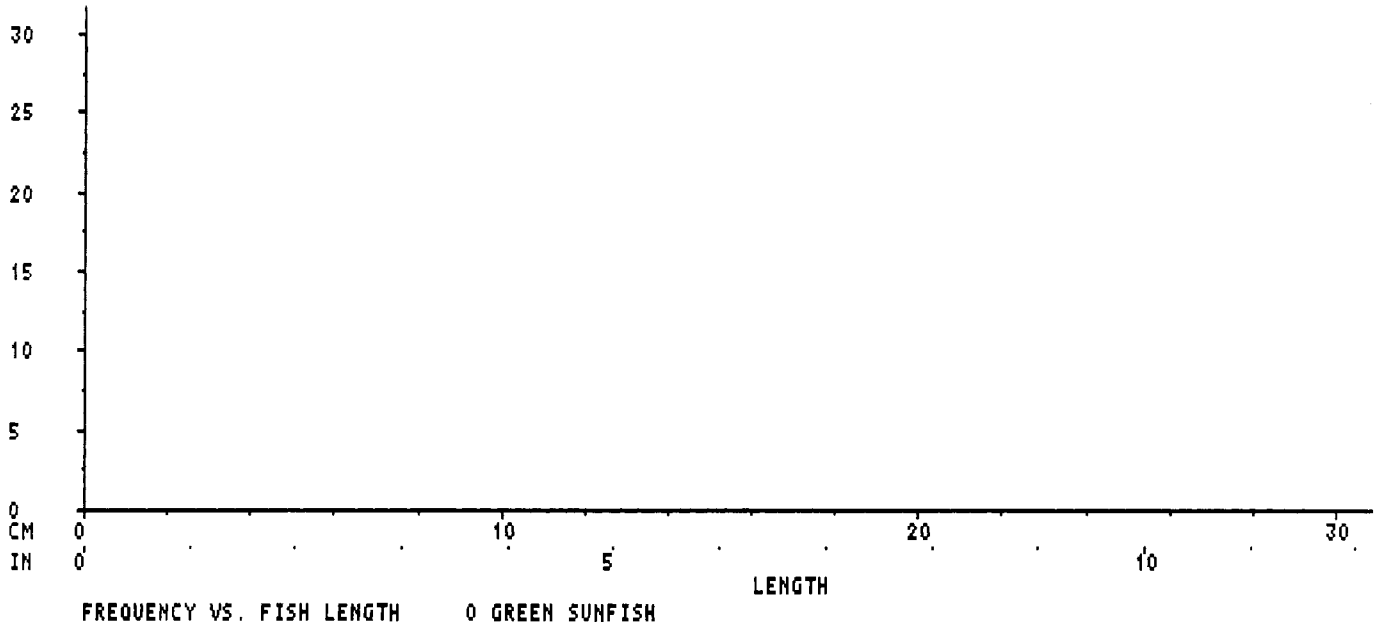


Figure 13. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of green sunfish harvested by all anglers.

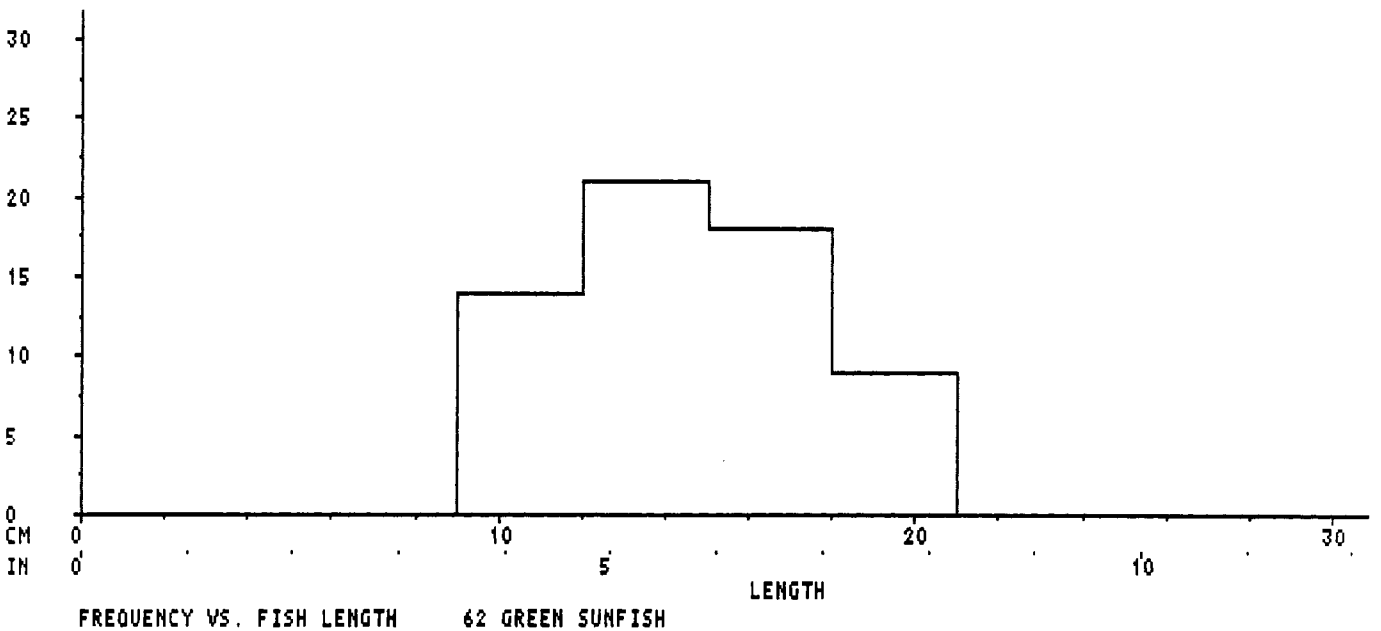


Figure 14. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of green sunfish released by all anglers.

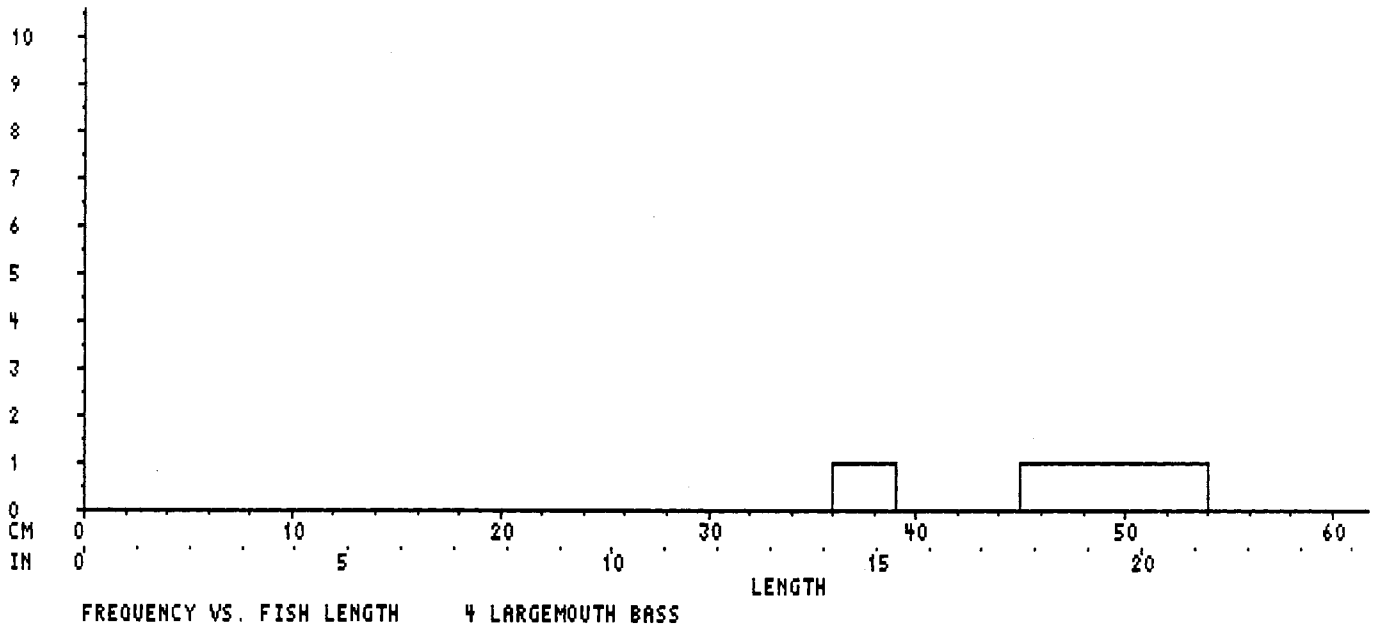


Figure 15. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of largemouth bass harvested by all anglers.

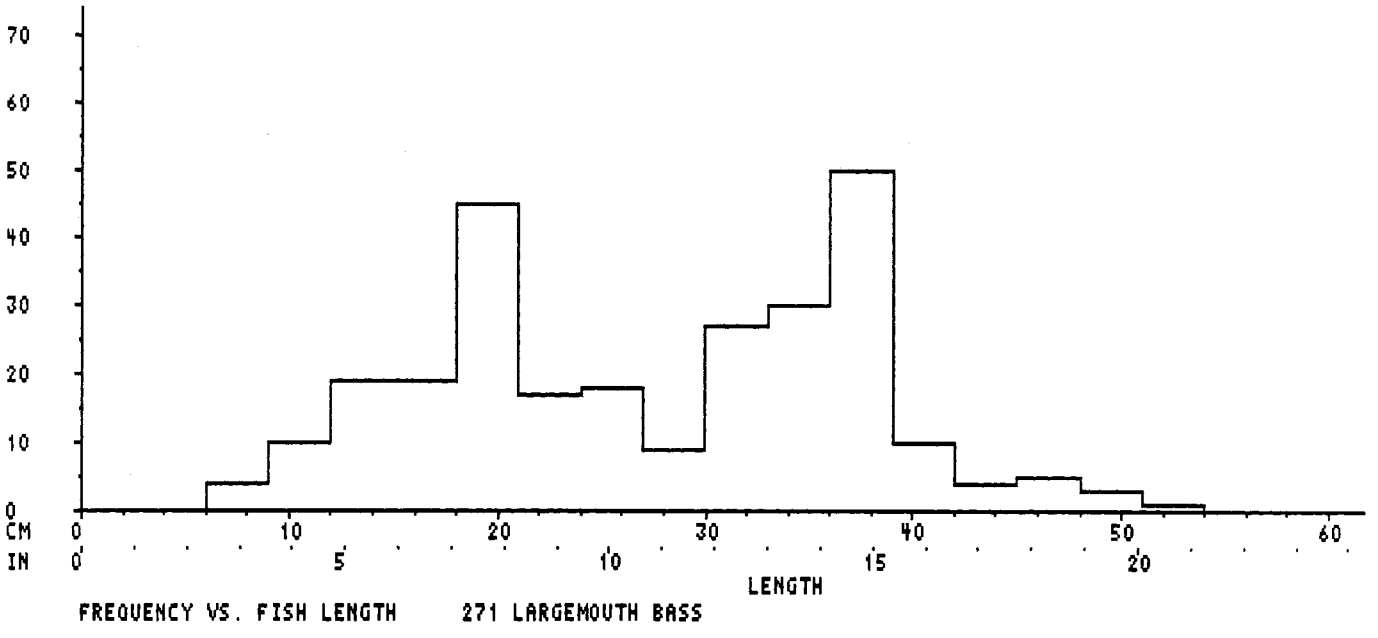


Figure 16. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 15.

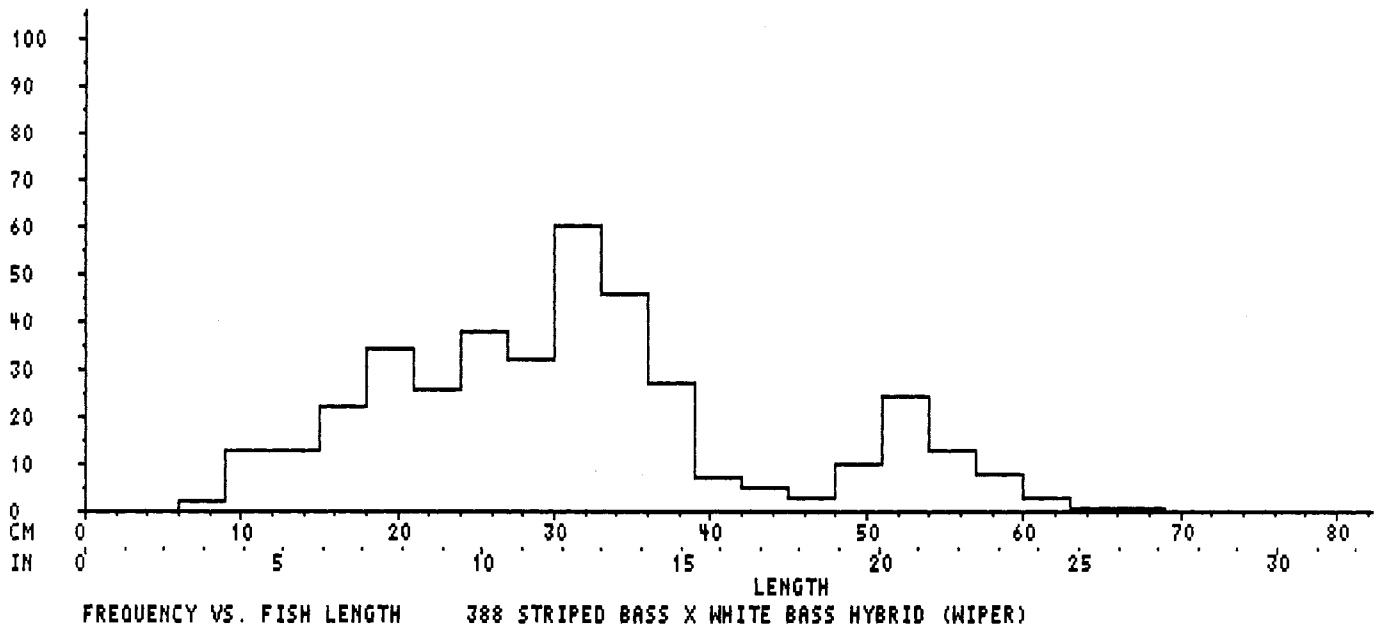


Figure 17. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of striped bass hybrid harvested by all anglers.

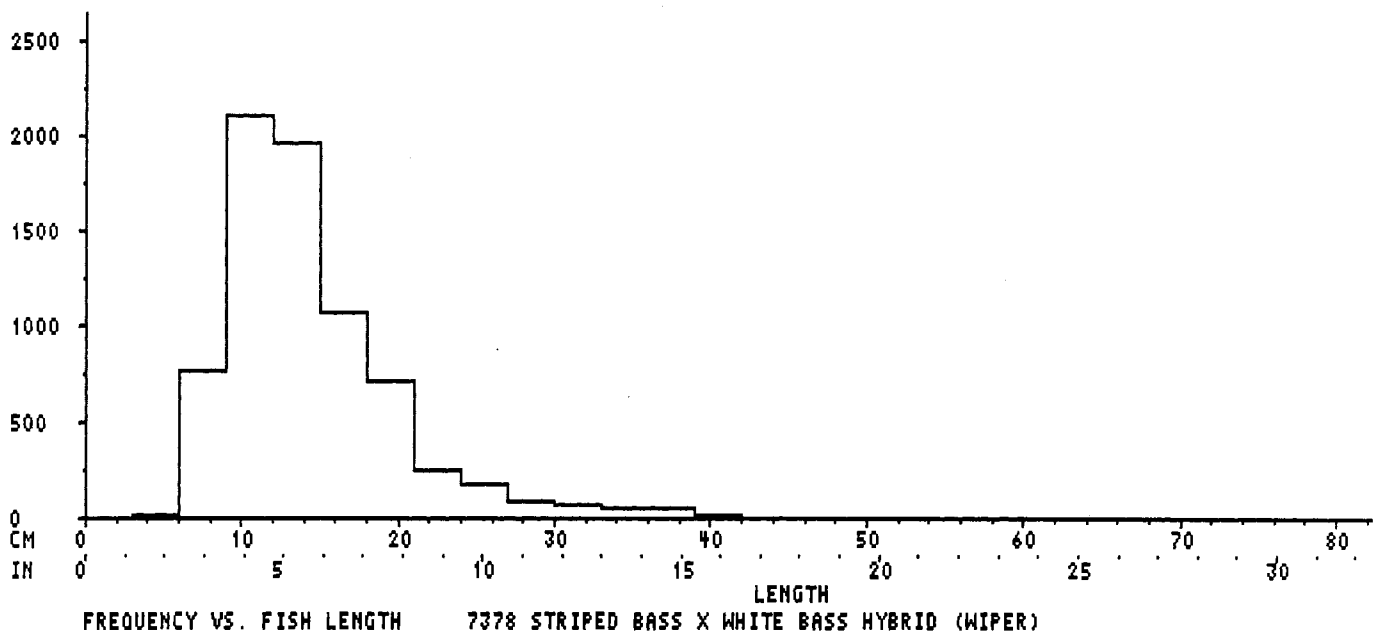


Figure 18. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of striped bass hybrid released by all anglers. Note the difference in scale from Figure 17.

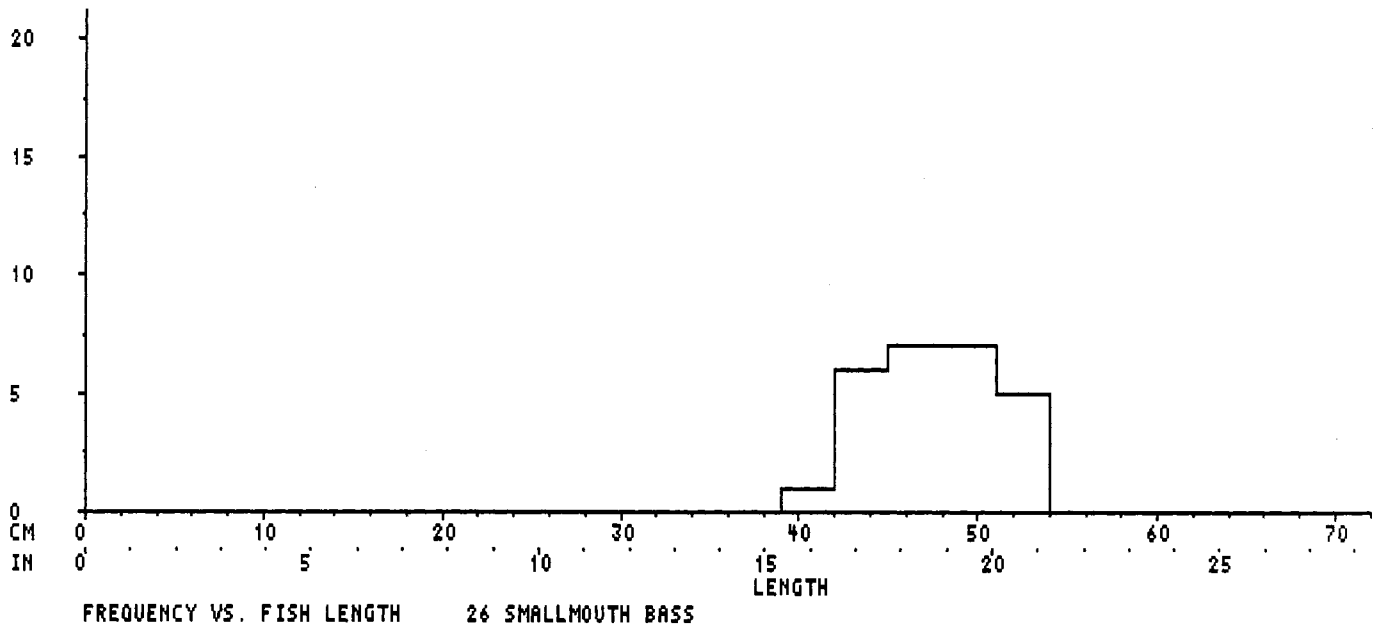


Figure 19. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of smallmouth bass harvested by all anglers.

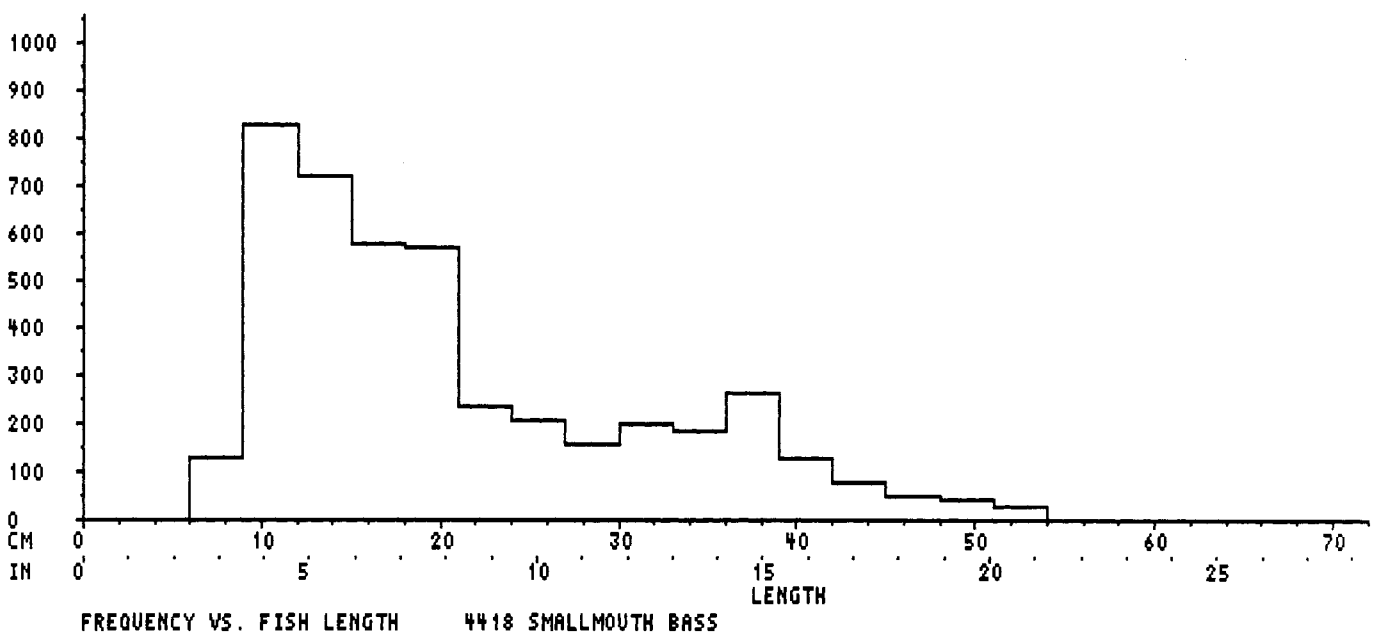


Figure 20. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of smallmouth bass released by all anglers. Note the difference in scale from Figure 19.

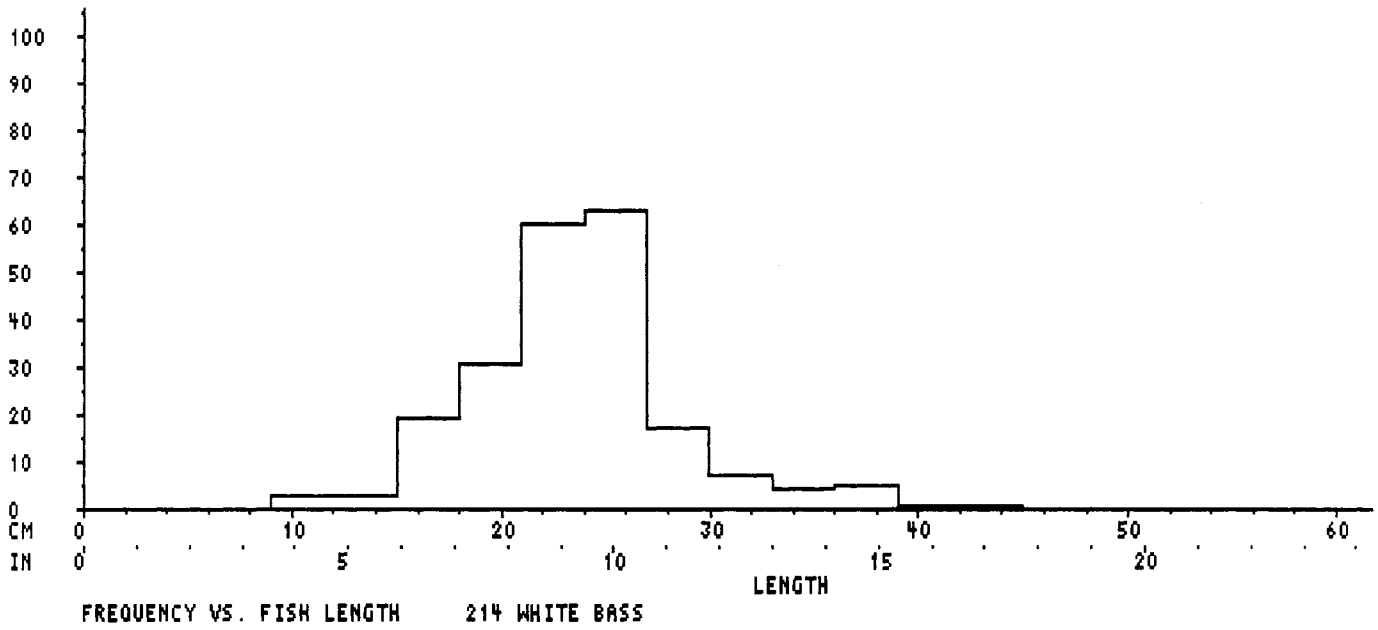


Figure 21. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of white bass harvested by all anglers.

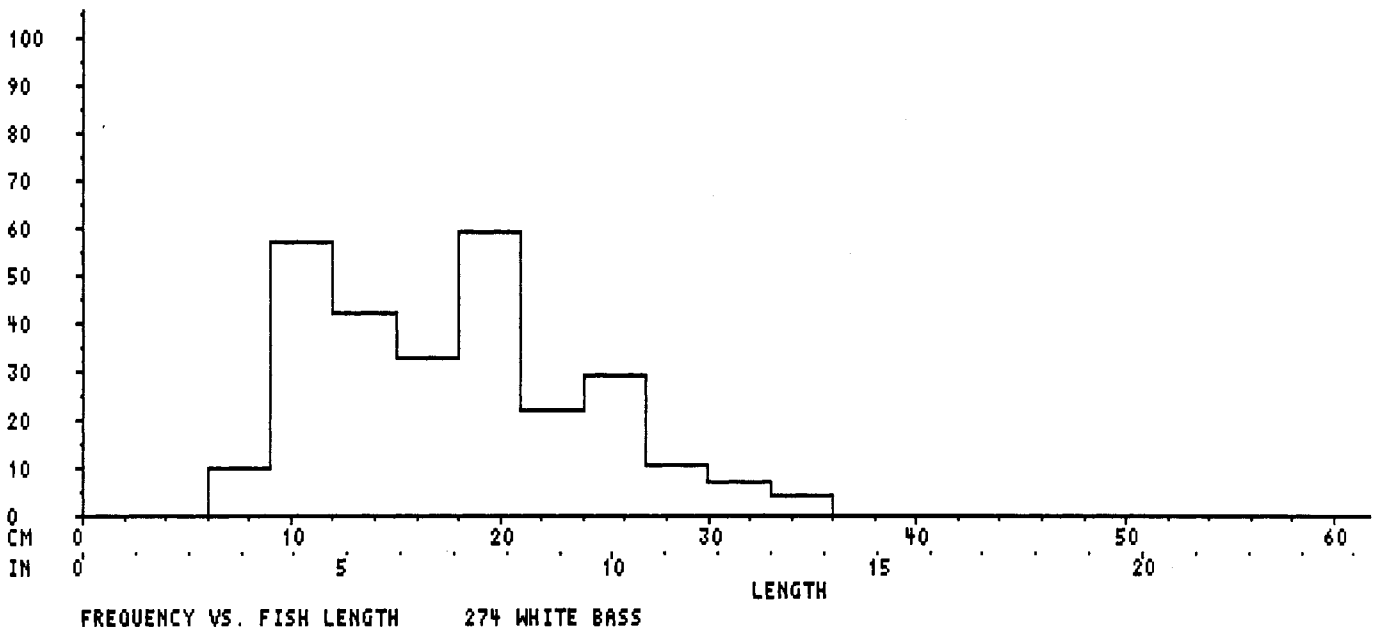


Figure 22. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of white bass released by all anglers.

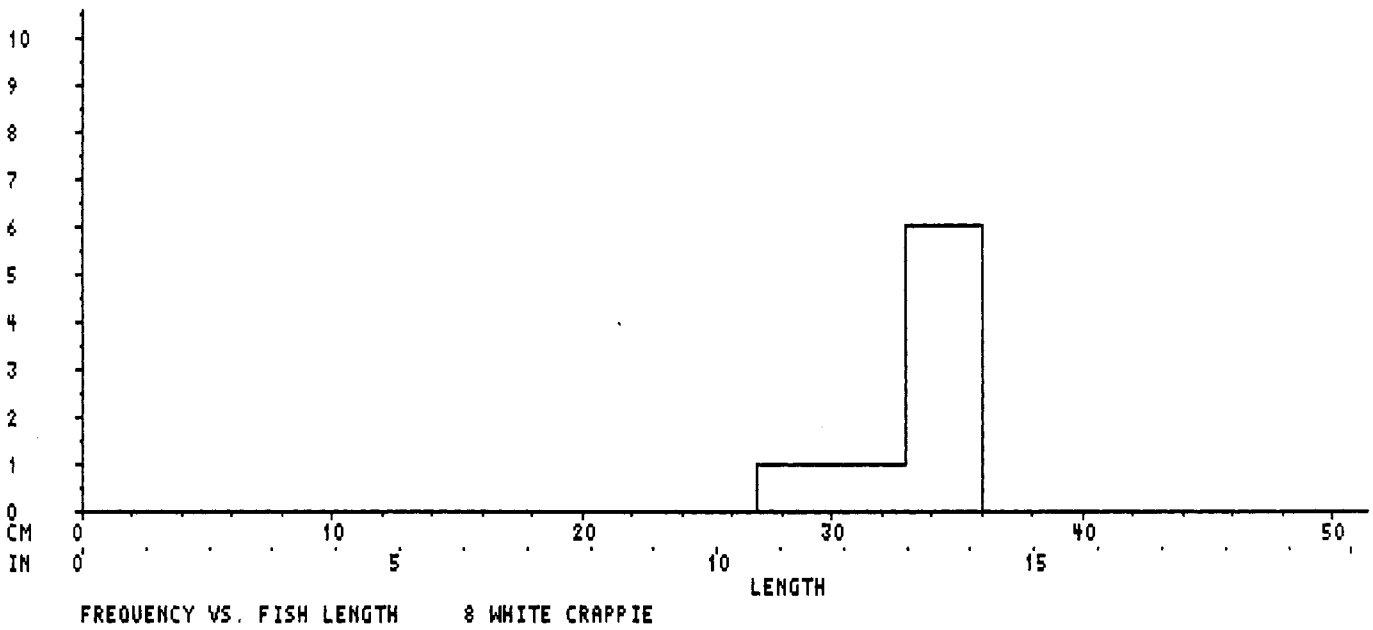


Figure 23. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of white crappie harvested by all anglers.

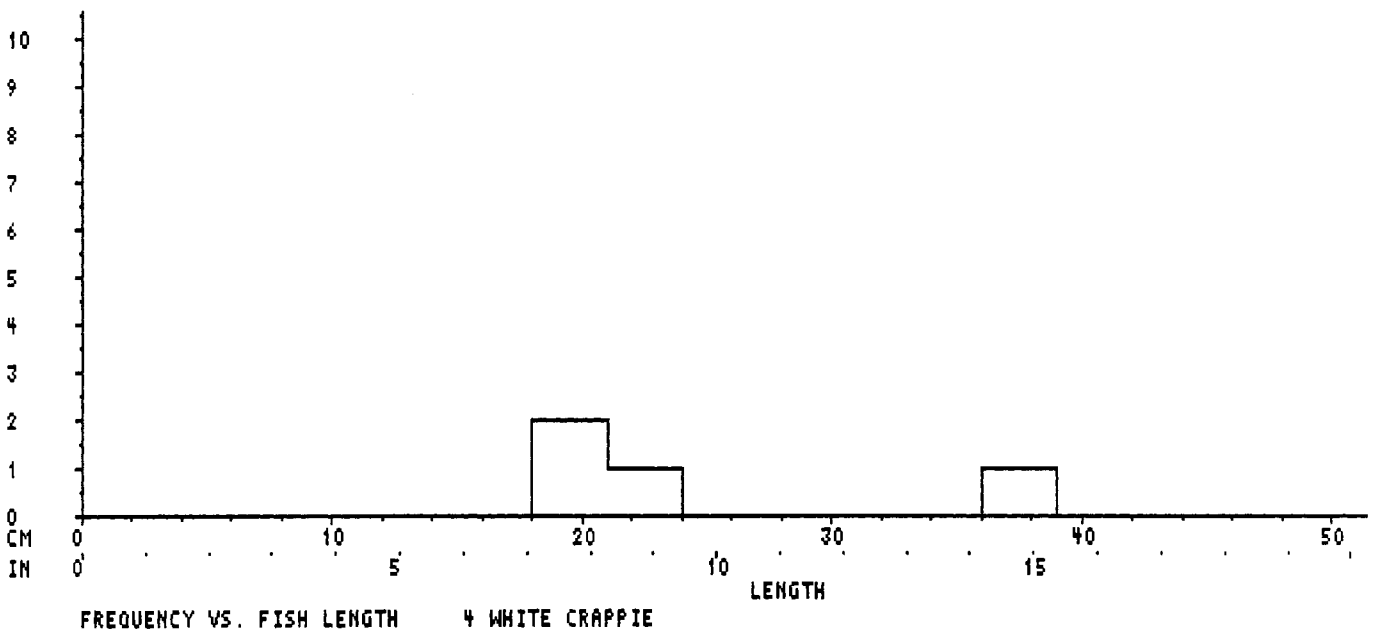


Figure 24. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of white crappie released by all anglers.

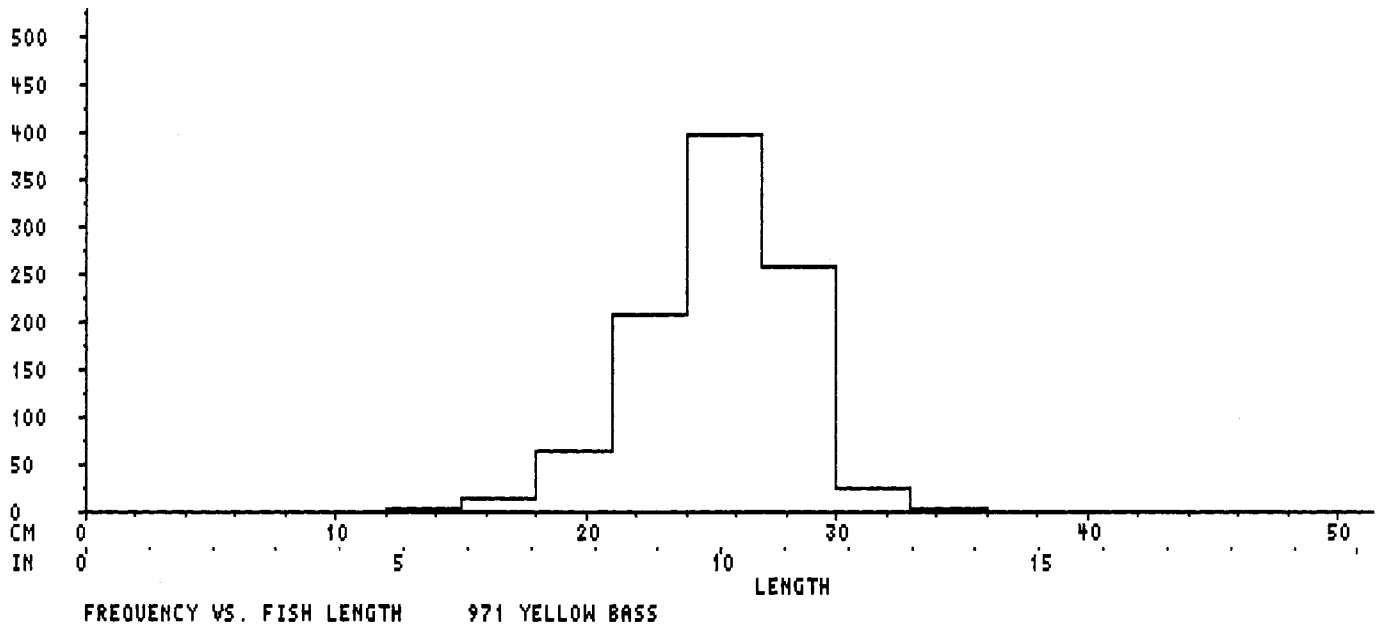


Figure 25. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of yellow bass harvested by all anglers.

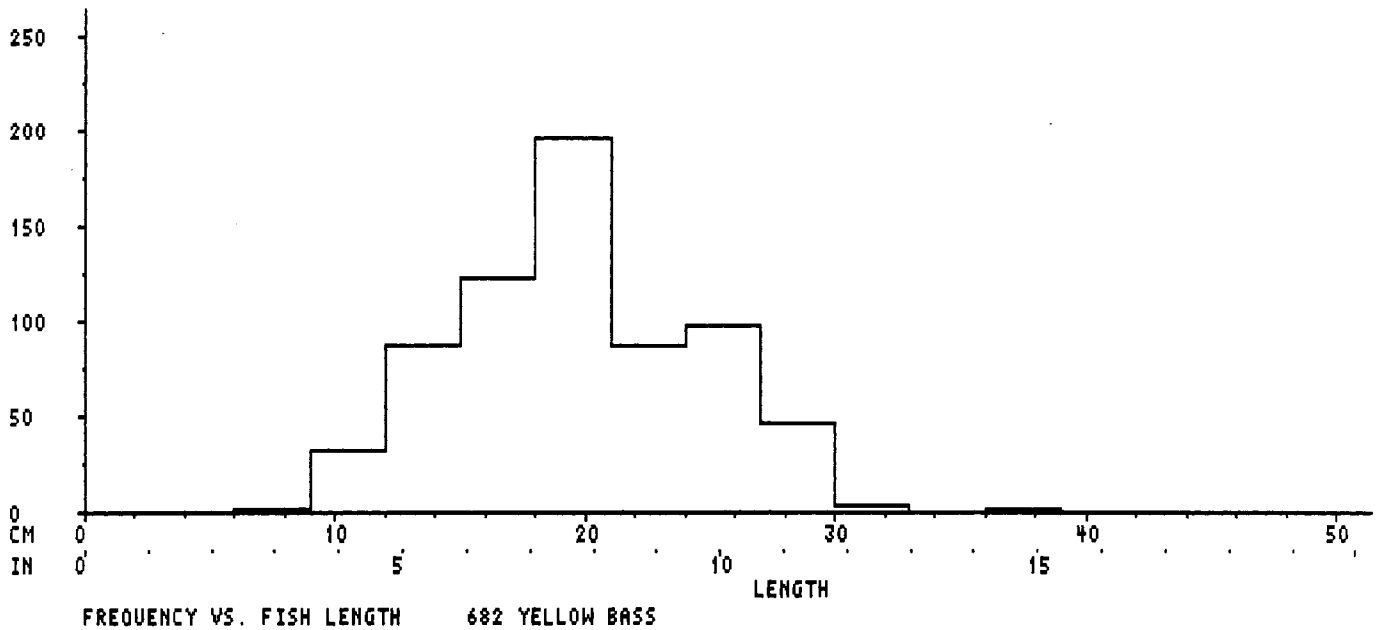


Figure 26. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of yellow bass released by all anglers. Note the difference in scale from Figure 25.

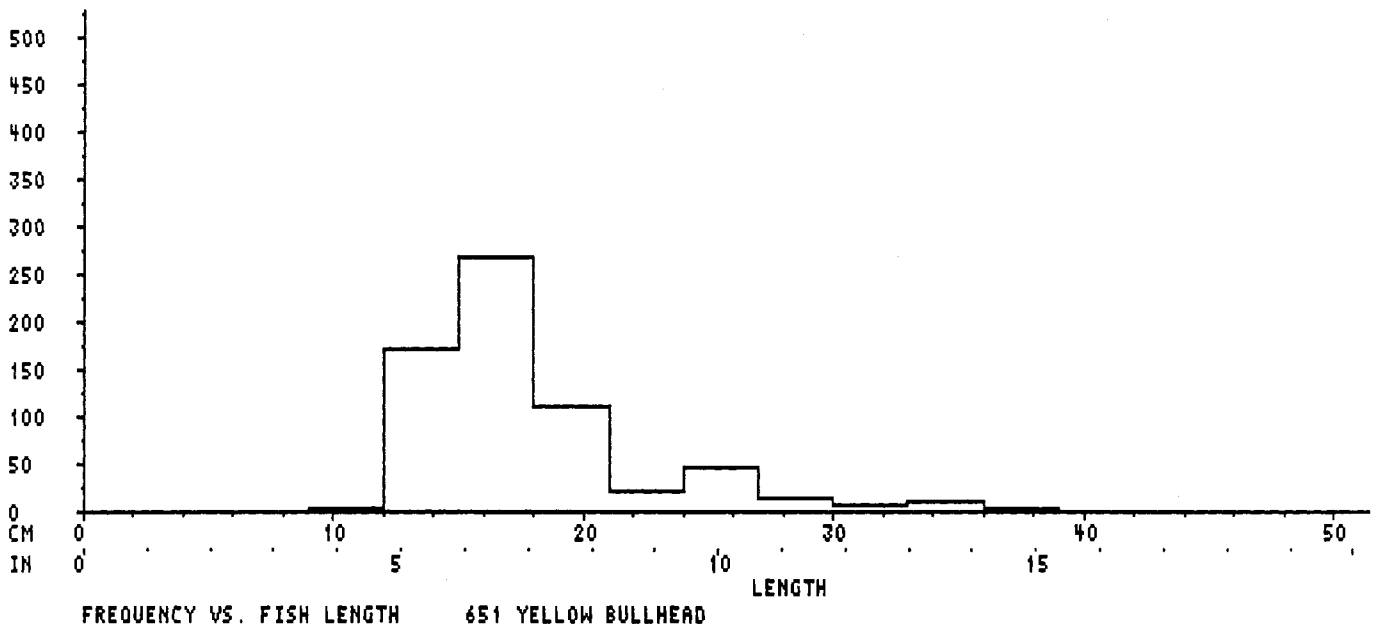


Figure 27. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of yellow bullhead harvested by all anglers.

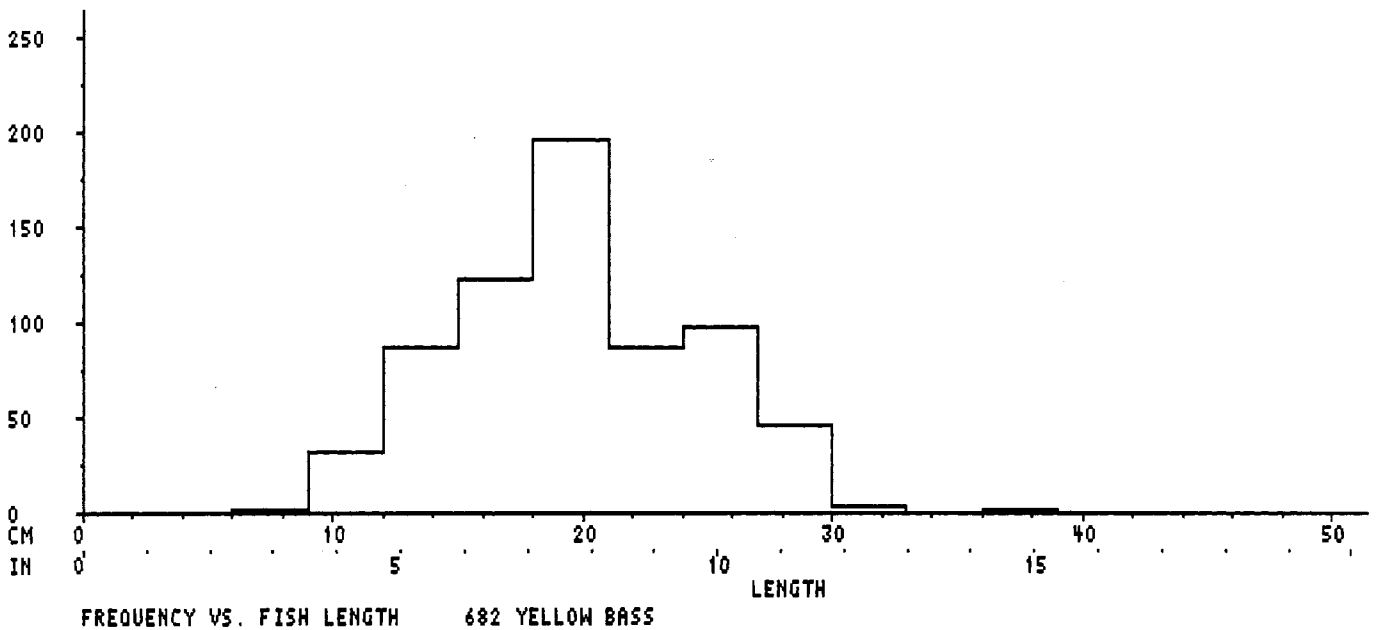


Figure 28. Lasalle Cooling Lake 2000 day creel 3/15 through 10/15. Length-frequency histogram of yellow bullhead released by all anglers. Note the difference in scale from Figure 27.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 LAKE MURPHYSBORO
 140 ACRES
 REGION 5, DISTRICT 21

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 304/693 = 43.9%

NUMBER OF INTERVIEWS: 1806

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	6105	5047-7162 (17%)	44	36-51 (17%)	25%
	HOLIDAY	4540	3863-5217 (15%)	33	28-37 (15%)	57%
	TOTAL	10645	9389-11900 (12%)	76	67-85 (12%)	38%
SHORE	WEEKDAY	3305	2740-3871 (17%)	24	20-28 (17%)	18%
	HOLIDAY	1961	1695-2228 (14%)	14	12-16 (14%)	46%
	TOTAL	5267	4642-5892 (12%)	38	33-42 (12%)	28%
BOAT & SHORE	WEEKDAY	9410	8211-10609 (13%)	67	59-76 (13%)	22%
	HOLIDAY	6501	5774-7229 (11%)	47	41-52 (11%)	54%
	TOTAL	15911	14509-17314 (9%)	114	104-124 (9%)	35%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
9661	7364-11958 (24%)		.600	.438-.763 (27%)	171.13	69.26	All species
115	0-290 (152%)		.008	.000-.022 (163%)	2.03	0.82	Black crappie
3475	2397-4554 (31%)		.182	.108-.255 (40%)	61.56	24.91	Bluegill
302	163-440 (46%)		.021	.004-.039 (81%)	5.34	2.16	Channel catfish
339	184-494 (46%)		.012	.005-.019 (57%)	6.01	2.43	Largemouth bass
8	0-30 (278%)		.000	.000-.001 (318%)	0.14	0.06	Redear sunfish
5422	3416-7428 (37%)		.377	.230-.524 (39%)	96.05	38.87	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
1303	1007-1599 (23%)		.077	.057-.098 (26%)	23.08	0.135	All species
15	0-34 (125%)		.001	.000-.005 (224%)	0.27	0.132	Black crappie
265	183-347 (31%)		.014	.008-.020 (42%)	4.69	0.076	Bluegill
123	66-180 (47%)		.009	.002-.017 (79%)	2.17	0.407	Channel catfish
230	123-336 (47%)		.008	.003-.012 (57%)	4.07	0.677	Largemouth bass
1	0-3 (278%)		.000	.000-.000 (318%)	0.02	0.115	Redear sunfish
670	419-921 (37%)		.045	.027-.063 (40%)	11.86	0.124	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
2872	2220-3524 (23%)		.170	.126-.215 (26%)	20.59	0.297	All species
33	0-75 (125%)		.003	.000-.011 (224%)	0.24	0.291	Black crappie
583	403-764 (31%)		.031	.018-.043 (42%)	4.18	0.168	Bluegill
271	145-397 (47%)		.021	.004-.037 (79%)	1.94	0.897	Channel catfish
506	271-742 (47%)		.017	.007-.027 (57%)	3.63	1.492	Largemouth bass
2	0-8 (318%)		.000	.000-.000 (318%)	0.01	0.253	Redear sunfish
1477	923-2030 (37%)		.099	.059-.138 (40%)	10.59	0.272	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	
29986	26335-33636	(12%)	1.688	1.447-1.930	(14%)	531.14	214.95	All species
466	145-786	(69%)	.051	.000-.106	(110%)	8.25	3.34	Black crappie
11628	9797-13460	(16%)	.642	.538-.745	(16%)	205.98	83.36	Bluegill
574	394-754	(31%)	.046	.023-.069	(51%)	10.17	4.12	Channel catfish
3652	2921-4383	(20%)	.138	.118-.159	(15%)	64.69	26.18	Largemouth bass
91	6-175	(93%)	.006	.000-.013	(123%)	1.61	0.65	Redear sunfish
13574	10514-16634	(23%)	.806	.583-1.030	(28%)	240.45	97.31	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	
4186	3650-4722	(13%)	.204	.179-.229	(12%)	74.15	0.140	All species
34	8-60	(76%)	.004	.000-.009	(145%)	0.60	0.073	Black crappie
806	677-936	(16%)	.043	.036-.051	(18%)	14.28	0.069	Bluegill
211	142-280	(33%)	.016	.007-.024	(53%)	3.74	0.367	Channel catfish
1850	1455-2244	(21%)	.068	.057-.079	(16%)	32.77	0.506	Largemouth bass
12	2-22	(86%)	.001	.000-.001	(112%)	0.21	0.129	Redear sunfish
1274	963-1584	(24%)	.073	.051-.095	(30%)	22.56	0.094	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	
9229	8048-10411	(13%)	.450	.395-.506	(12%)	66.16	0.308	All species
75	18-132	(76%)	.008	.000-.020	(145%)	0.54	0.161	Black crappie
1777	1492-2063	(16%)	.095	.078-.112	(18%)	12.74	0.153	Bluegill
465	313-618	(33%)	.035	.016-.053	(53%)	3.33	0.810	Channel catfish
4078	3208-4948	(21%)	.150	.127-.173	(16%)	29.23	1.117	Largemouth bass
26	4-48	(86%)	.002	.000-.003	(112%)	0.18	0.284	Redear sunfish
2808	2124-3492	(24%)	.161	.113-.209	(30%)	20.13	0.207	White crappie

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.5	3.3-3.6	(4%)	0.5	11.2	548
SHORE	1.7	1.6-1.8	(6%)	0.2	4.8	301
BOAT & SHORE	2.8	2.7-3.0	(4%)	0.2	11.2	849
MILES TRAVELED	17.9	15.7-20.2	(13%)	1	450	1298
SUCCESS RATING (1-10)	3.8	3.6-3.9	(4%)	1	10	1286

*354 samples were from split interviews of completed trips.
58.6% of all 1449 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1449 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	368	466	43	4						
SHORE INTERVIEWS	305	206	47	8		2				

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

127 (8.8%)	ANY	All species
6 (0.4%)	BLC	Black crappie
346 (23.9%)	BLG	Bluegill
55 (3.8%)	CCF	Channel catfish
1 (0.1%)	CRP	Crappie spp.
546 (37.7%)	LMB	Largemouth bass
367 (25.3%)	WHC	White crappie

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	1320	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-
RELEASE	1303	12	4	1	1	-	2	-	-	-	-	-	-	-	-	1
Bluegill																
HARVEST	1247	3	3	7	10	5	5	4	2	2	4	7	4	-	3	18
RELEASE	1006	47	62	59	49	16	18	10	10	3	15	2	4	4	1	18
Channel catfish																
HARVEST	1288	21	11	1	-	2	1	-	-	-	-	-	-	-	-	-
RELEASE	1296	15	11	1	1	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1270	18	12	14	4	4	2	-	-	-	-	-	-	-	-	-
RELEASE	874	138	150	72	49	22	9	3	6	-	1	-	-	-	-	-
Redear sunfish																
HARVEST	1322	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1319	-	4	-	-	-	1	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1233	5	16	8	8	8	6	3	-	2	4	3	4	4	3	17
RELEASE	1044	32	49	43	28	36	16	11	13	1	22	-	3	4	3	19

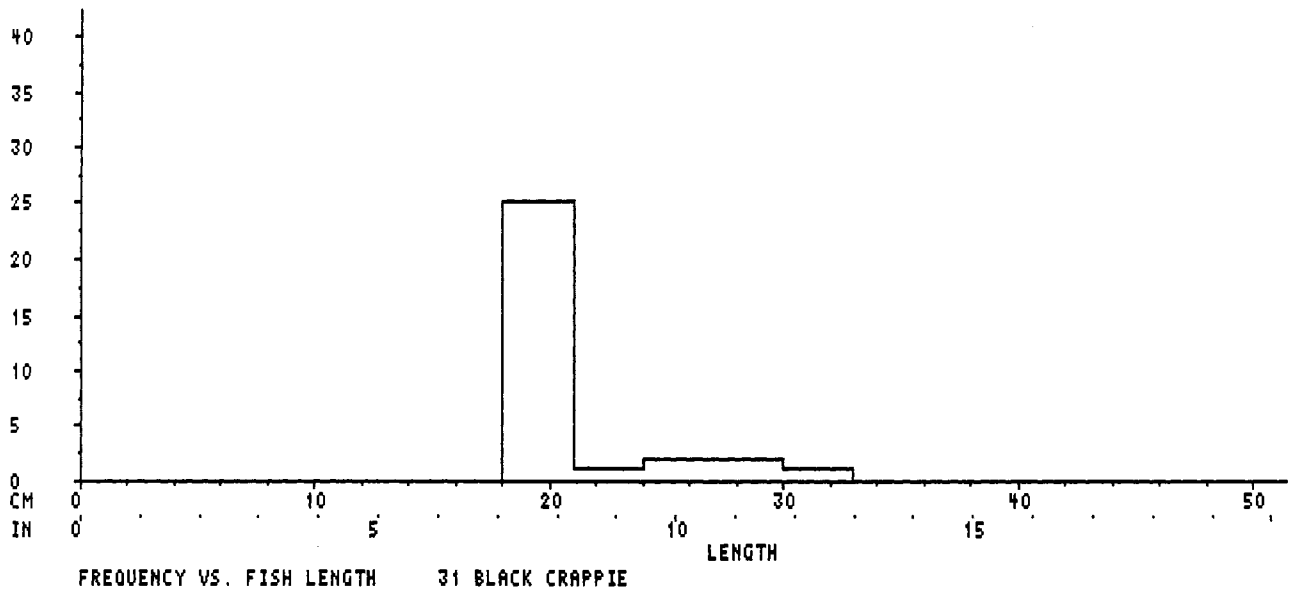


Figure 1. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

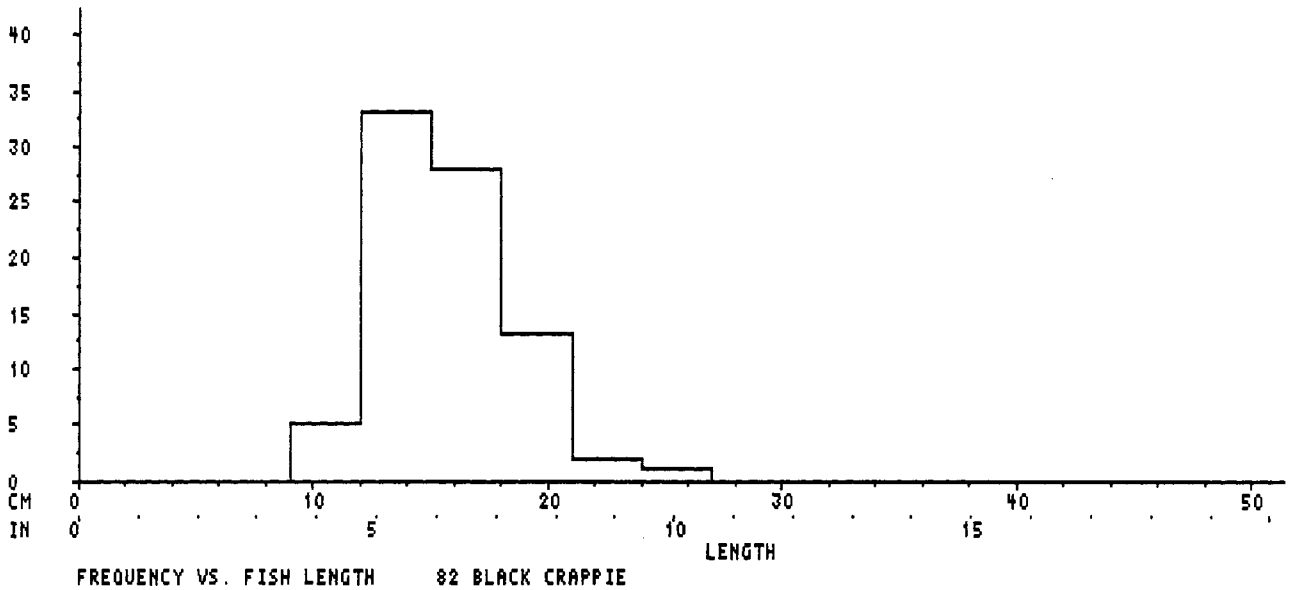


Figure 2. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

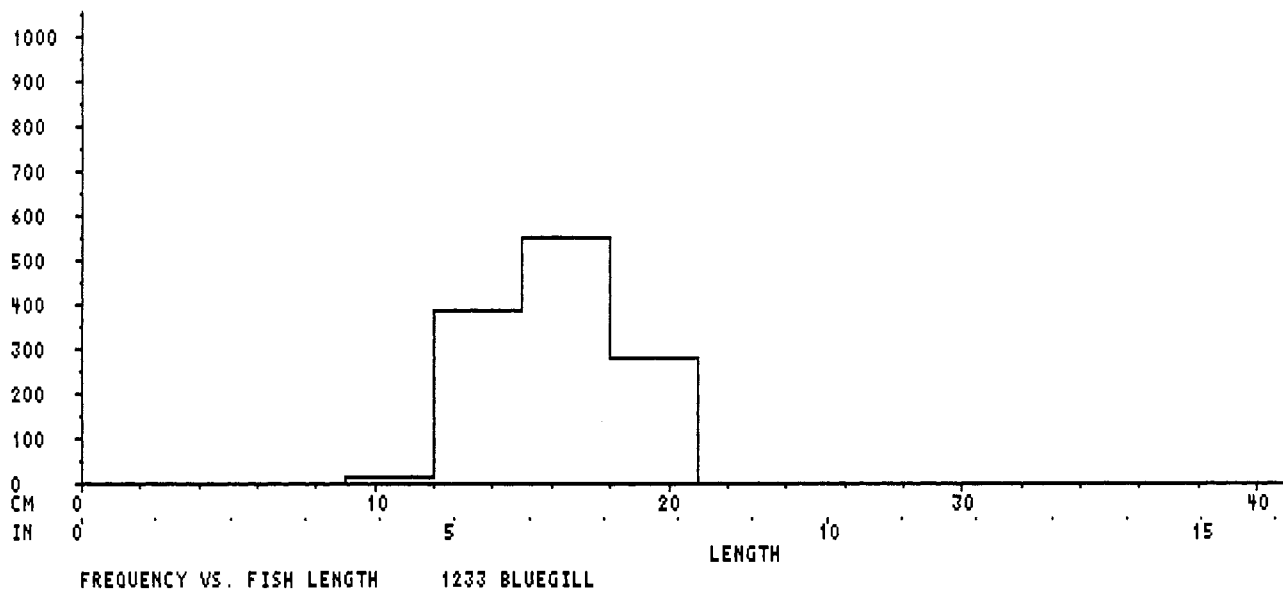


Figure 3. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

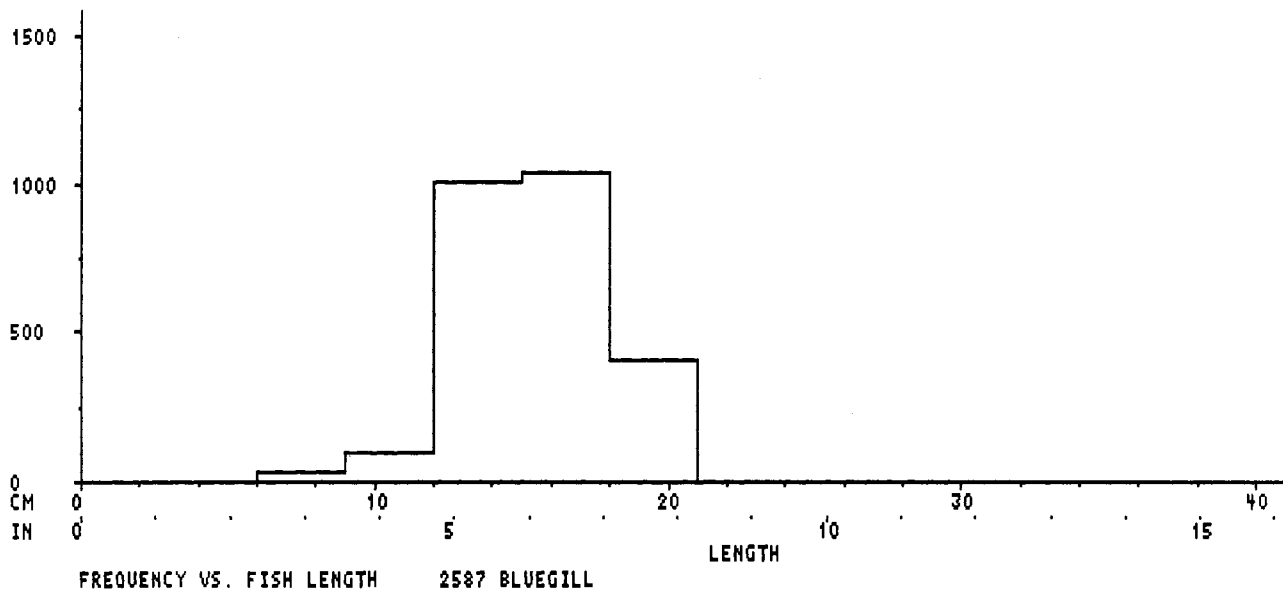


Figure 4. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

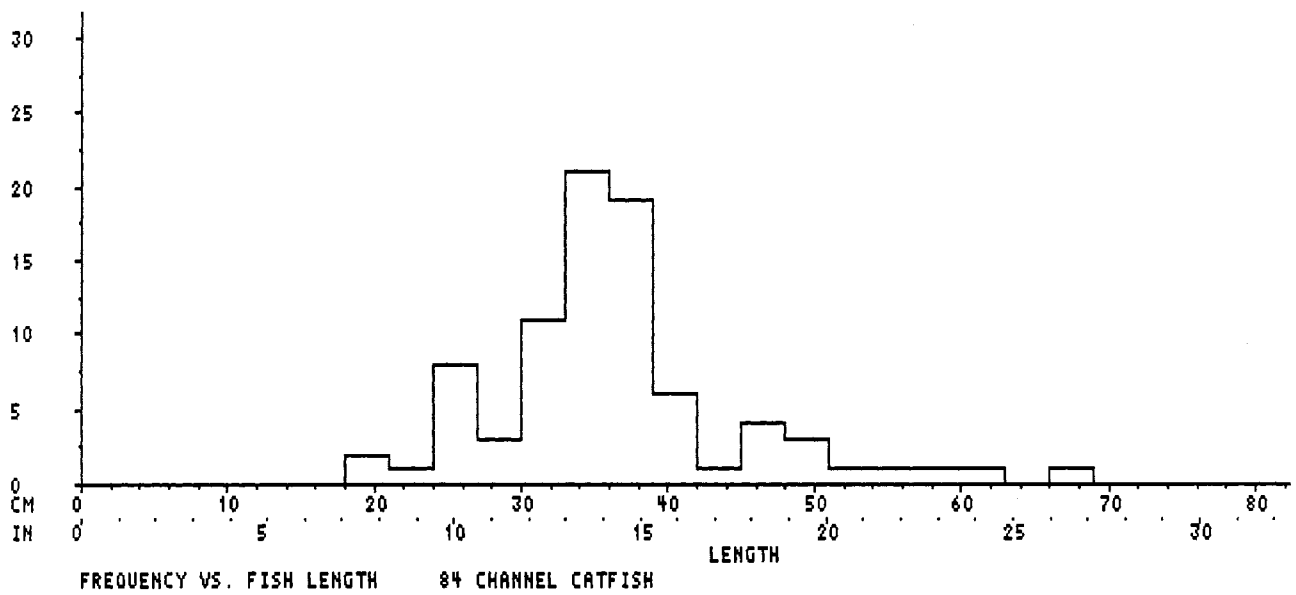


Figure 5. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

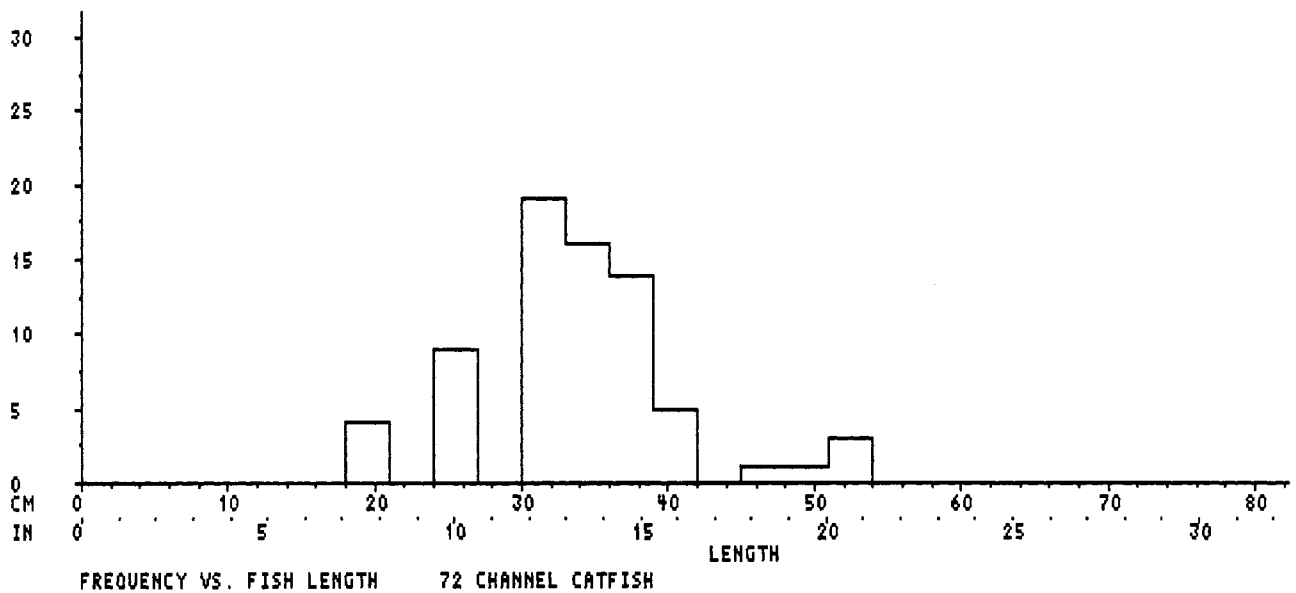


Figure 6. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

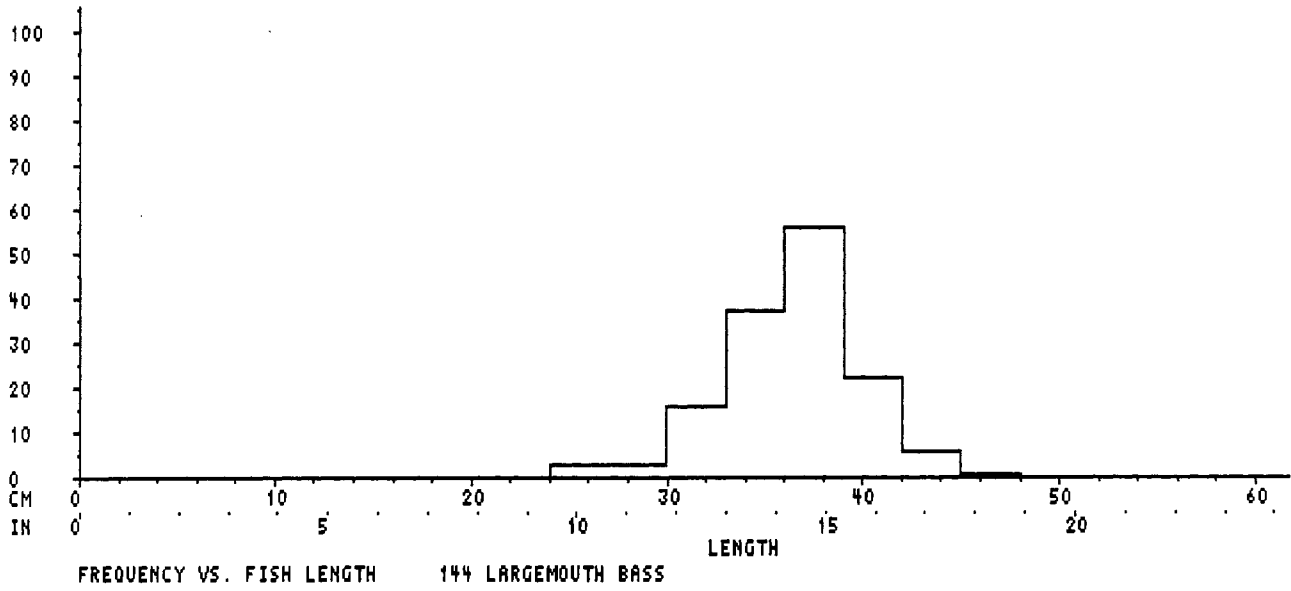


Figure 7. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

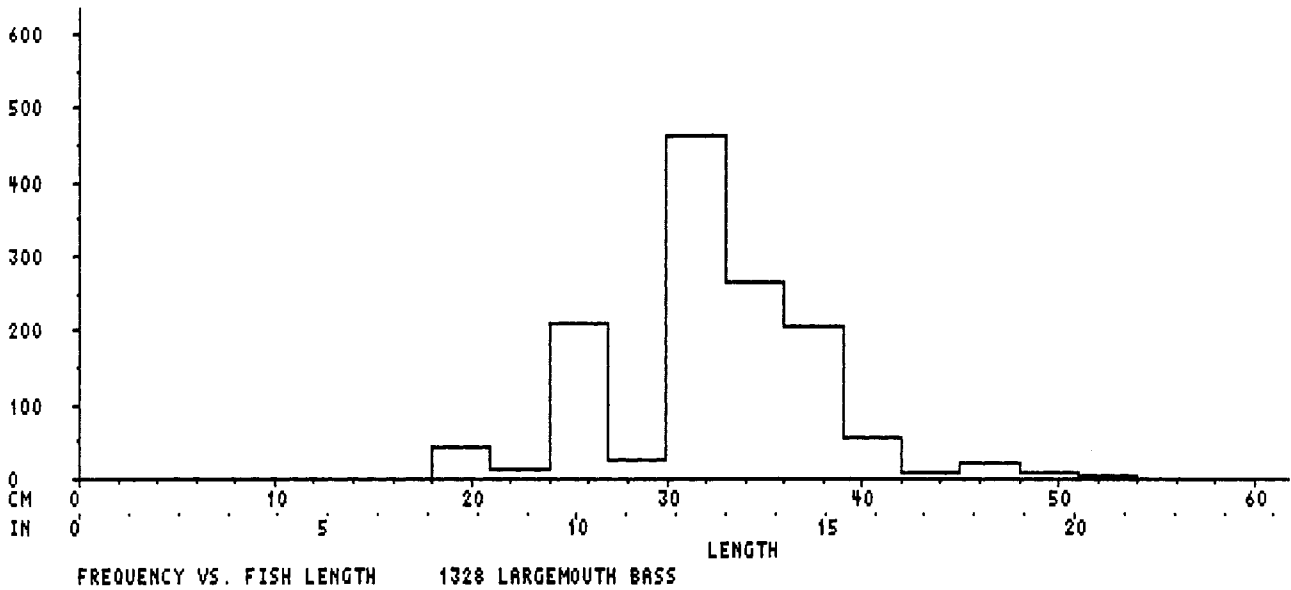


Figure 8. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 7.

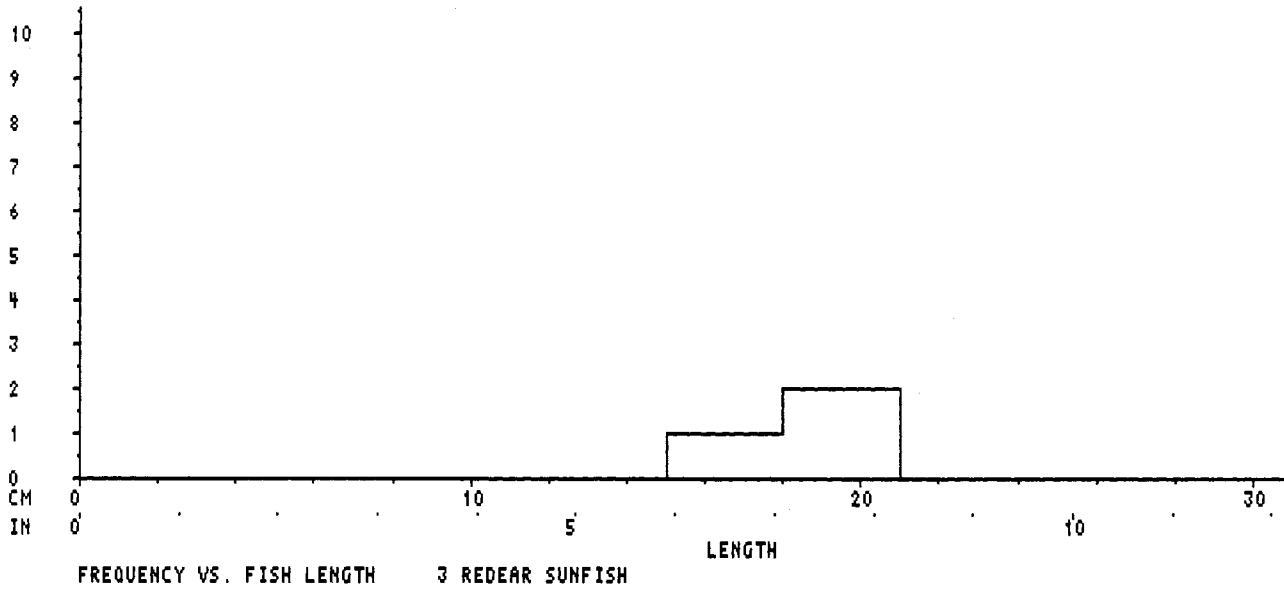


Figure 9. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of redear sunfish harvested by all anglers.

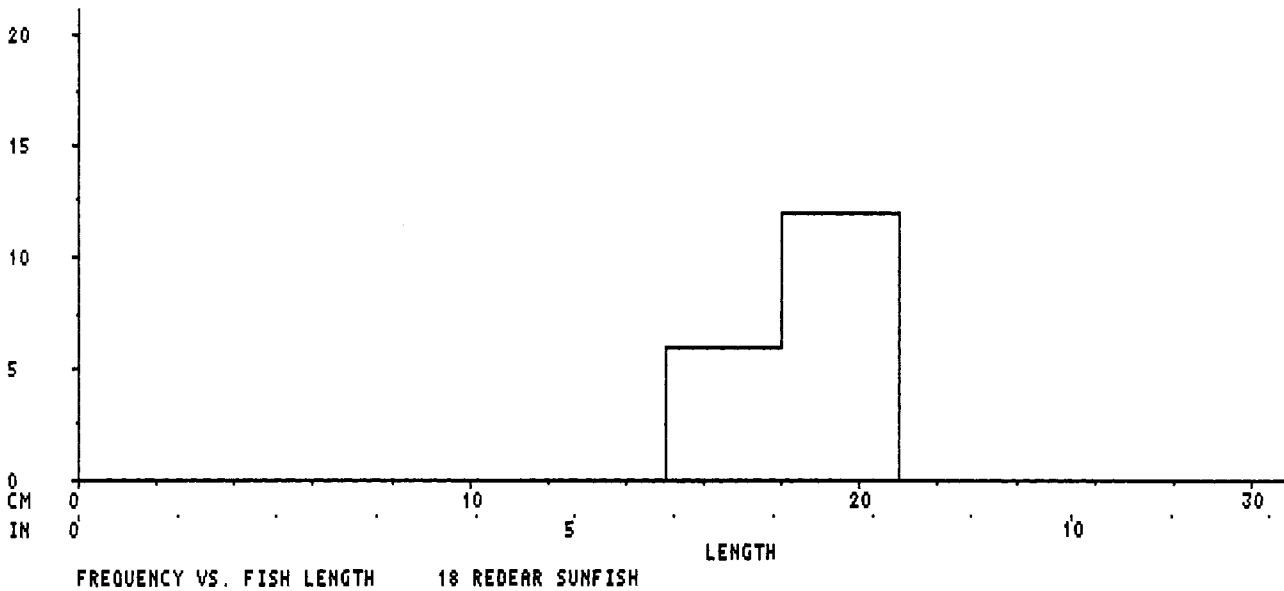


Figure 10. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of redear sunfish released by all anglers. Note the difference in scale from Figure 9.

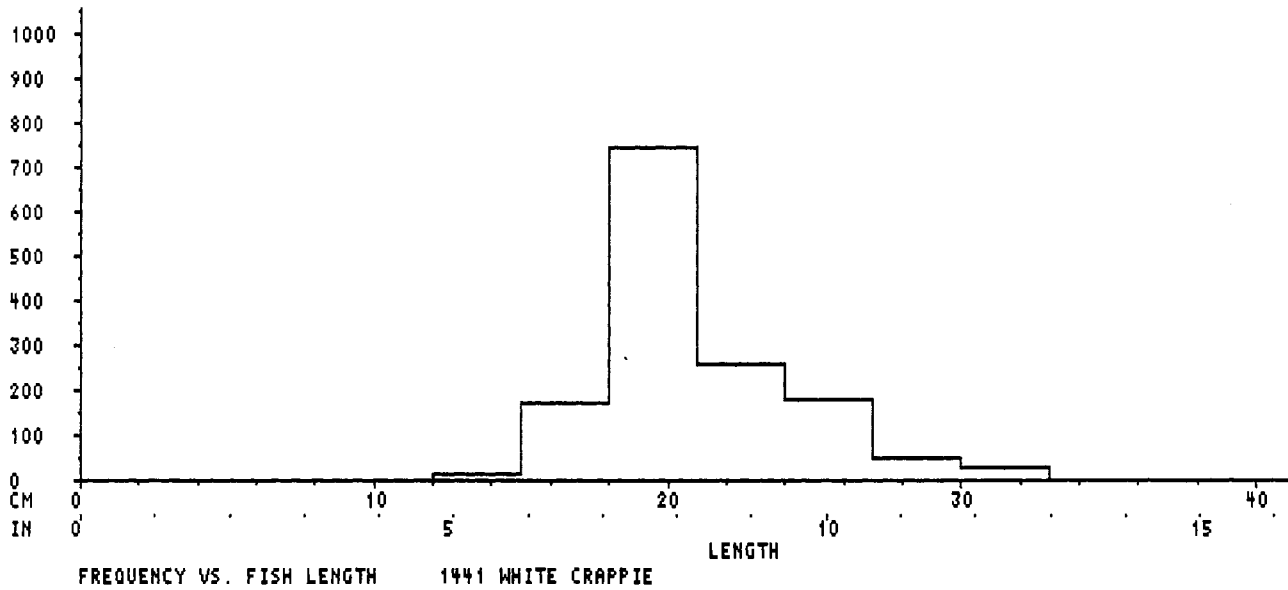


Figure 11. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

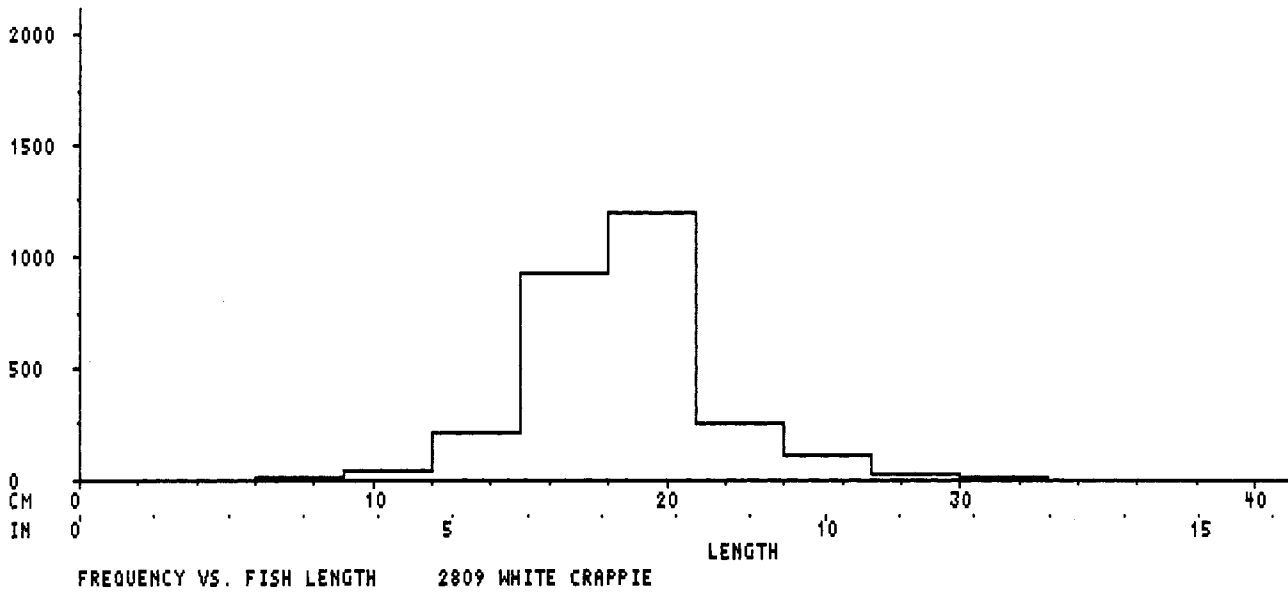


Figure 12. Lake Murphysboro 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 11.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000-2001 CREEL SURVEY RESULTS

2000-2001 NEWTON LAKE
 1750 ACRES
 REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/09/2000 through 03/15/2001
 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: 341/1023 = 33.3%

NUMBER OF INTERVIEWS: 3096

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	30081	25165-34997 (16%)	17	14-20 (16%)	15%
	HOLIDAY	33870	30464-37276 (10%)	19	17-21 (10%)	31%
	TOTAL	63951	58190-69712 (9%)	37	33-40 (9%)	23%
SHORE	WEEKDAY	5686	4651-6721 (18%)	3	3-4 (18%)	3%
	HOLIDAY	6013	5211-6815 (13%)	3	3-4 (13%)	3%
	TOTAL	11699	10389-13008 (11%)	7	6-7 (11%)	3%
BOAT & SHORE	WEEKDAY	35767	30755-40779 (14%)	20	18-23 (14%)	13%
	HOLIDAY	39883	36383-43382 (9%)	23	21-25 (9%)	26%
	TOTAL	75650	69742-81557 (8%)	43	40-47 (8%)	20%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
26917	18865-34968	(30%)	.382	.233-.532 (39%)	38.01	15.38	All species
			****	NOT RECORDED	****		Black bullhead
19	0-78	(318%)	.000	.000-.001 (430%)	0.03	0.01	Black crappie
601	0-2287	(280%)	.060	.000-.174 (188%)	0.85	0.34	Bluegill
82	0-267	(226%)	.004	.000-.010 (161%)	0.12	0.05	Carp
13371	10576-16165	(21%)	.200	.107-.292 (46%)	18.88	7.64	Channel catfish
			****	NOT RECORDED	****		Flathead catfish
220	0-666	(202%)	.006	.000-.027 (349%)	0.31	0.13	Green sunfish
5613	288-10937	(95%)	.050	.007-.092 (85%)	7.93	3.21	Gizzard shad
596	237-955	(60%)	.003	.002-.005 (44%)	0.84	0.34	Largemouth bass
15	0-208	(1271%)	.001	.000-.003 (430%)	0.02	0.01	Pumpkinseed
			****	NOT RECORDED	****		Rock bass
			****	NOT RECORDED	****		Warmouth
5587	0-11542	(107%)	.052	.000-.106 (103%)	7.89	3.19	White bass
813	372-1254	(54%)	.007	.001-.012 (84%)	1.15	0.46	White crappie
			****	NOT RECORDED	****		Yellow bullhead

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
7766	5498-10033	(29%)	.085	.054-.115 (36%)	10.97	0.289	All species
			****	NOT RECORDED	****		Black bullhead
7	0-38	(430%)	.000	.000-.000 (430%)	0.01	0.380	Black crappie
21	0-75	(250%)	.001	.000-.003 (169%)	0.03	0.036	Bluegill
46	0-156	(237%)	.001	.000-.004 (255%)	0.07	0.566	Carp
4566	3593-5539	(21%)	.060	.030-.091 (50%)	6.45	0.341	Channel catfish
			****	NOT RECORDED	****		Flathead catfish
7	0-16	(123%)	.000	.000-.001 (282%)	0.01	0.032	Green sunfish
61	9-114	(85%)	.001	.000-.001 (89%)	0.09	0.011	Gizzard shad
907	359-1455	(60%)	.005	.003-.008 (46%)	1.28	1.522	Largemouth bass
1	0-12	(1271%)	.000	.000-.000 (1271%)	0.00	0.055	Pumpkinseed
			****	NOT RECORDED	****		Rock bass
			****	NOT RECORDED	****		Warmouth
1866	0-4020	(115%)	.014	.002-.026 (87%)	2.63	0.334	White bass
283	135-432	(52%)	.002	.001-.004 (74%)	0.40	0.349	White crappie
			****	NOT RECORDED	****		Yellow bullhead

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

LB HARVESTED	95% CI	LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
17121	12122-22120 (29%)	.187	.120-.253 (36%)	9.78	0.636	All species
		****	NOT RECORDED ****			Black bullhead
16	0-66 (318%)	.000	.000-.001 (430%)	0.01	0.838	Black crappie
47	0-165 (250%)	.002	.000-.006 (169%)	0.03	0.078	Bluegill
102	0-344 (237%)	.002	.000-.008 (255%)	0.06	1.247	Carp
10066	7920-12212 (21%)	.133	.067-.200 (50%)	5.75	0.753	Channel catfish
		****	NOT RECORDED ****			Flathead catfish
15	0-34 (123%)	.000	.000-.001 (282%)	0.01	0.070	Green sunfish
136	20-251 (85%)	.001	.000-.002 (89%)	0.08	0.024	Gizzard shad
1999	791-3207 (60%)	.012	.006-.017 (46%)	1.14	3.355	Largemouth bass
2	0-25 (1271%)	.000	.000-.000 (430%)	0.00	0.122	Pumpkinseed
		****	NOT RECORDED ****			Rock bass
		****	NOT RECORDED ****			Warmouth
4113	0-8863 (115%)	.031	.004-.058 (87%)	2.35	0.736	White bass
625	298-952 (52%)	.005	.001-.008 (74%)	0.36	0.769	White crappie
		****	NOT RECORDED ****			Yellow bullhead

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

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
87113	73185-101040 (16%)	.918	.748-1.088 (18%)	123.00	49.78	All species
10	0-41 (318%)	.000	.000-.000 (318%)	0.01	0.01	Black bullhead
134	0-297 (122%)	.002	.000-.004 (137%)	0.19	0.08	Black crappie
4080	2619-5542 (36%)	.107	.000-.225 (109%)	5.76	2.33	Bluegill
143	0-330 (131%)	.005	.000-.011 (130%)	0.20	0.08	Carp
24060	20174-27946 (16%)	.316	.219-.414 (31%)	33.97	13.75	Channel catfish
3	0-9 (223%)	.000	.000-.000 (223%)	0.00	0.00	Flathead catfish
878	330-1426 (62%)	.012	.000-.028 (146%)	1.24	0.50	Green sunfish
7498	1191-13806 (84%)	.069	.015-.122 (78%)	10.59	4.28	Gizzard shad
35437	28985-41888 (18%)	.279	.234-.325 (16%)	50.04	20.25	Largemouth bass
65	1-130 (98%)	.002	.000-.004 (136%)	0.09	0.04	Pumpkinseed
22	0-54 (150%)	.000	.000-.001 (178%)	0.03	0.01	Rock bass
114	14-214 (88%)	.001	.000-.003 (126%)	0.16	0.07	Warmouth
11929	5543-18314 (54%)	.106	.026-.186 (75%)	16.84	6.82	White bass
2734	1737-3730 (36%)	.019	.011-.027 (40%)	3.86	1.56	White crappie
7	0-25 (278%)	.000	.000-.001 (318%)	0.01	0.00	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
38287	31752-44822 (17%)	.323	.280-.367 (13%)	54.06	0.440	All species
1	0-3 (318%)	.000	.000-.000 (278%)	0.00	0.074	Black bullhead
16	0-38 (134%)	.000	.000-.000 (130%)	0.02	0.120	Black crappie
147	95-199 (35%)	.003	.001-.004 (65%)	0.21	0.036	Bluegill
126	0-289 (129%)	.003	.000-.006 (145%)	0.18	0.886	Carp
6144	5046-7242 (18%)	.078	.046-.109 (40%)	8.68	0.255	Channel catfish
1	0-5 (223%)	.000	.000-.000 (226%)	0.00	0.526	Flathead catfish
27	11-43 (58%)	.000	.000-.001 (89%)	0.04	0.031	Green sunfish
92	15-169 (84%)	.001	.000-.002 (93%)	0.13	0.012	Gizzard shad
27614	22787-32440 (17%)	.208	.175-.241 (16%)	38.99	0.779	Largemouth bass
3	0-6 (112%)	.000	.000-.000 (187%)	0.00	0.040	Pumpkinseed
2	0-5 (176%)	.000	.000-.000 (208%)	0.00	0.081	Rock bass
13	0-28 (120%)	.000	.000-.000 (99%)	0.02	0.110	Warmouth
3395	1235-5556 (64%)	.025	.012-.039 (52%)	4.79	0.285	White bass
704	429-980 (39%)	.005	.003-.008 (47%)	0.99	0.258	White crappie
3	0-11 (278%)	.000	.000-.000 (278%)	0.00	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
84408	70001-98816 (17%)	.712	.617-.808 (13%)	48.23	0.969	All species
2	0-7 (318%)	.000	.000-.000 (318%)	0.00	0.162	Black bullhead
35	0-83 (134%)	.000	.000-.001 (130%)	0.02	0.265	Black crappie
323	208-438 (35%)	.006	.002-.010 (65%)	0.18	0.079	Bluegill
278	0-638 (129%)	.006	.000-.014 (145%)	0.16	1.953	Carp
13546	11124-15967 (18%)	.171	.102-.241 (40%)	7.74	0.563	Channel catfish
3	0-10 (226%)	.000	.000+.000 (226%)	0.00	1.160	Flathead catfish
60	25-94 (58%)	.001	.000-.001 (89%)	0.03	0.068	Green sunfish
202	33-372 (84%)	.002	.000-.004 (93%)	0.12	0.027	Gizzard shad
60877	50236-71519 (17%)	.458	.386-.530 (16%)	34.79	1.718	Largemouth bass
6	0-12 (112%)	.000	.000-.000 (187%)	0.00	0.089	Pumpkinseed
4	0-11 (176%)	.000	.000-.000 (208%)	0.00	0.178	Rock bass
28	0-61 (120%)	.000	.000-.000 (99%)	0.02	0.242	Warmouth
7486	2722-12249 (64%)	.056	.027-.086 (52%)	4.28	0.628	White bass
1553	945-2161 (39%)	.012	.006-.018 (47%)	0.89	0.568	White crappie
6	0-23 (278%)	.000	.000-.001 (318%)	0.00	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	5.5	5.4-5.6 (2%)	0.5	14.2	1525
SHORE	3.1	2.2-3.9 (27%)	0.8	7.2	17
BOAT & SHORE	5.4	5.3-5.6 (2%)	0.5	14.2	1542
MILES TRAVELED	53.0	50.3-55.7 (5%)	1	400	1607
SUCCESS RATING (1-10)	4.1	3.9-4.2 (3%)	1	10	1603

*1238 samples were from split interviews of completed trips.
93.2% of all 1655 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 0 out of 1655 interviews with illegal harvests.

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

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	445	958	125	18			1			
SHORE INTERVIEWS	45	43	14	3	3					

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

105 (6.3%)	ANY	All species
7 (0.4%)	BLG	Bluegill
6 (0.4%)	CAP	Carp
296 (17.9%)	CCF	Channel catfish
50 (3.0%)	CRP	Crappie spp.
3 (0.2%)	GZS	Gizzard shad
1156 (69.8%)	LMB	Largemouth bass
1 (0.1%)	SUN	Sunfish spp. excluding Crappie and Black Bass
31 (1.9%)	WHB	White bass

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black bullhead																
HARVEST	2804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2802	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	2802	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2792	10	-	2	-	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	2788	8	-	2	1	3	-	-	-	-	-	-	-	2	-	-
RELEASE	2508	150	54	31	21	11	16	-	-	-	6	-	2	-	1	4
Carp																
HARVEST	2802	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2794	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	2338	53	74	80	38	29	32	19	21	2	18	7	5	21	2	65
RELEASE	2121	257	98	90	57	31	12	13	21	5	25	11	12	11	2	38
Flathead catfish																
HARVEST	2804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2802	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	2791	7	-	2	2	2	-	-	-	-	-	-	-	-	-	-
RELEASE	2761	17	7	9	2	-	-	-	-	-	5	3	-	-	-	-
Gizzard shad																
HARVEST	2777	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
RELEASE	2792	2	-	-	-	-	2	-	-	-	-	-	-	2	-	6
Largemouth bass																
HARVEST	2732	46	17	9	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	955	522	345	268	173	126	96	80	53	26	33	16	19	6	15	71
Pumpkinseed																
HARVEST	2802	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2796	5	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Rock bass																
HARVEST	2804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2796	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	2804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2787	12	3	-	-	-	2	-	-	-	-	-	-	-	-	-

2000-2001 NEWTON LAKE

DAY CREEL

04/09/2000 - 03/15/2001

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
White bass																
HARVEST	2748	8	4	6	4	2	5	-	2	3	4	4	2	-	-	12
RELEASE	2635	69	24	15	8	8	3	-	4	-	-	-	1	2	-	35
White crappie																
HARVEST	2747	17	8	8	2	4	6	-	3	2	7	-	-	-	-	-
RELEASE	2650	78	17	17	7	6	4	2	5	-	6	-	3	2	-	7
Yellow bullhead																
HARVEST	2804	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2802	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

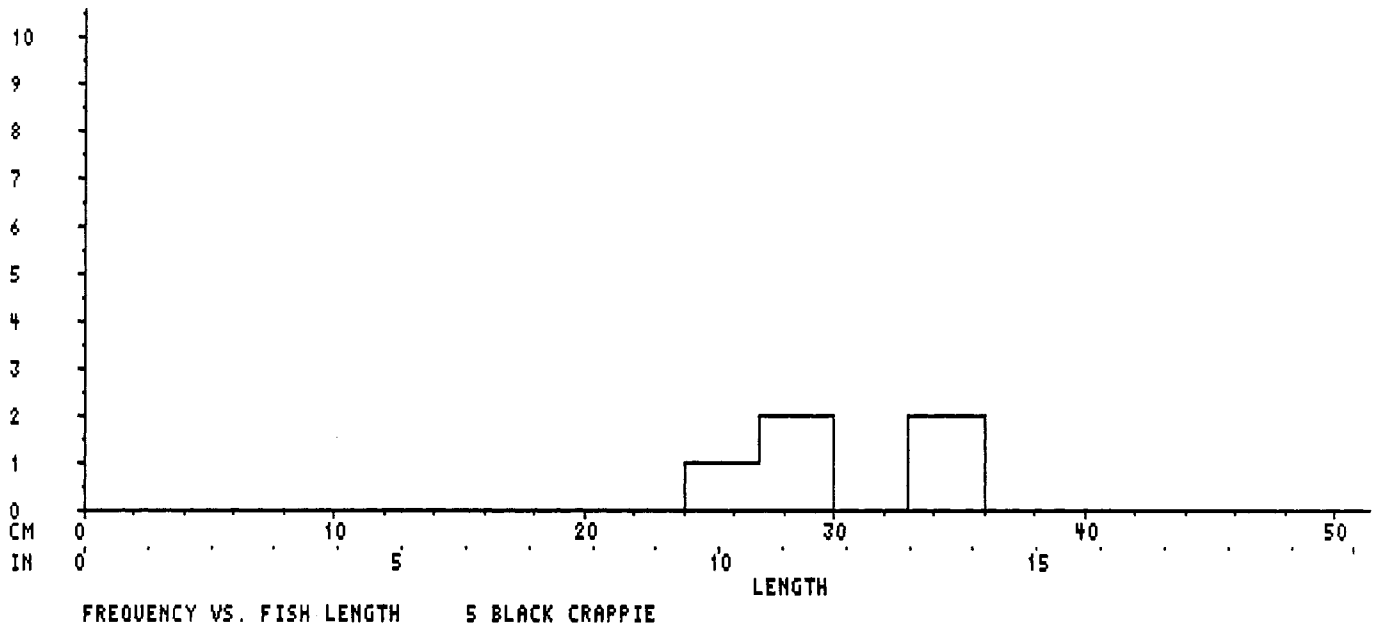


Figure 1. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of black crappie harvested by all anglers.

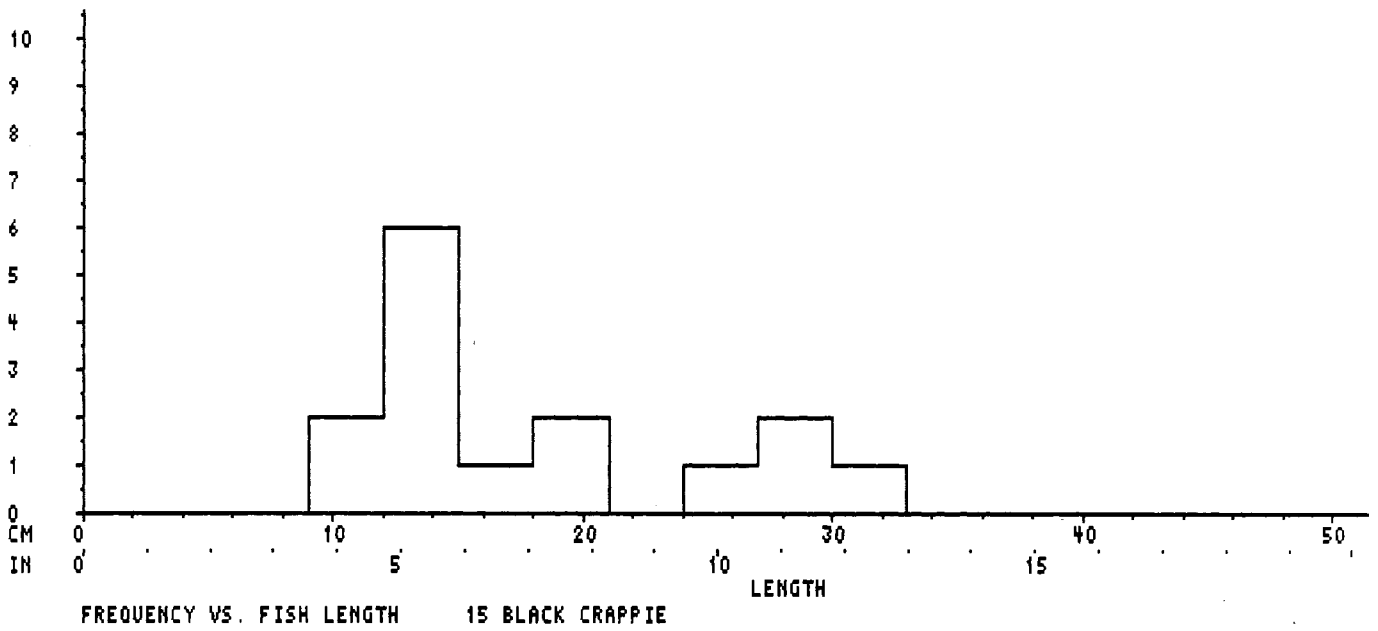


Figure 2. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of black crappie released by all anglers.

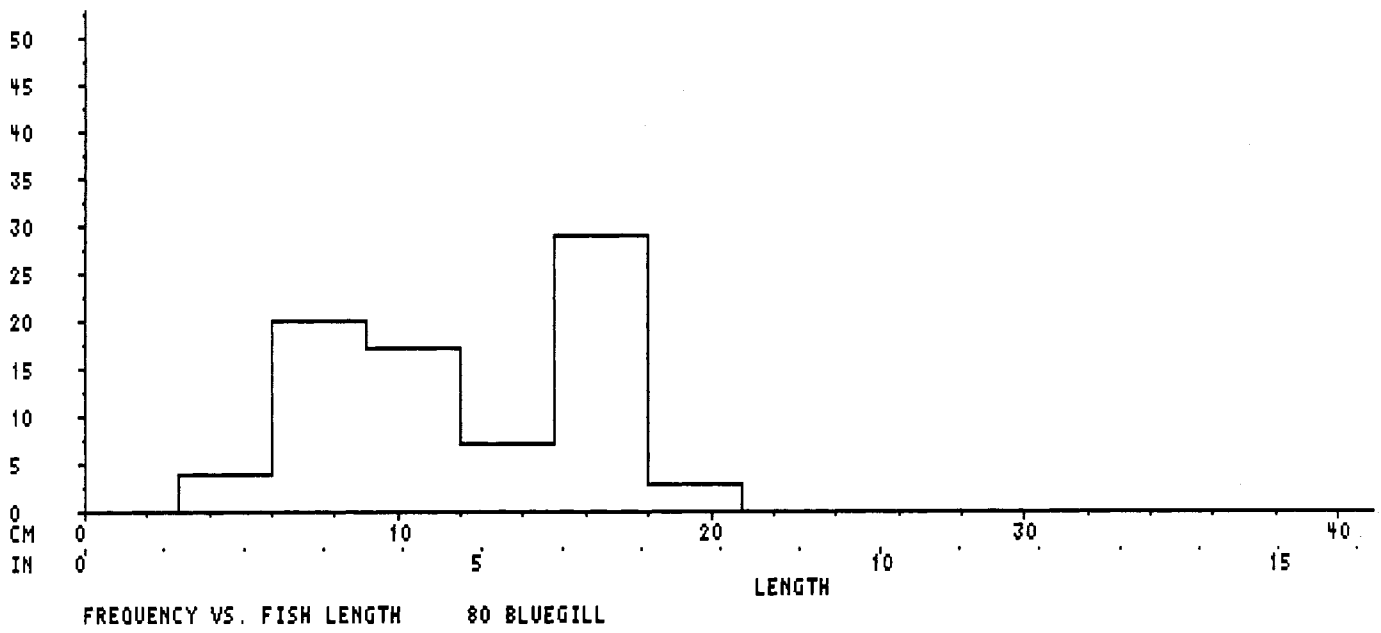


Figure 3. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of bluegill harvested by all anglers.

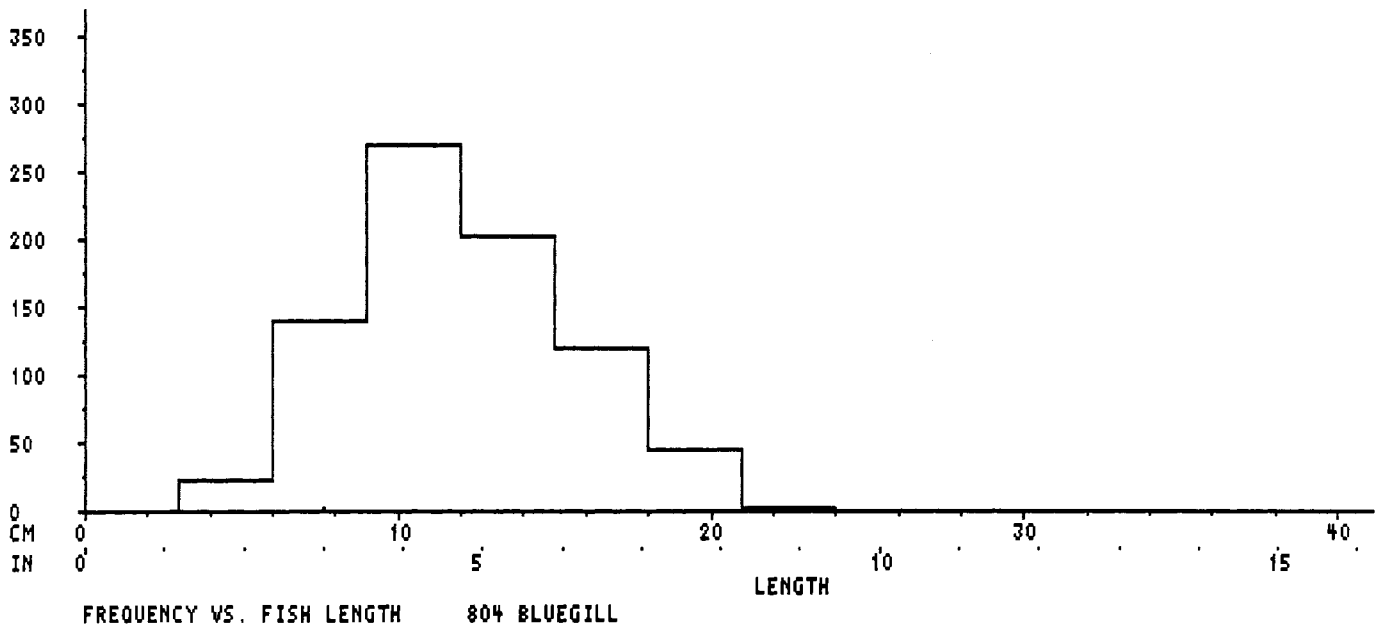


Figure 4. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

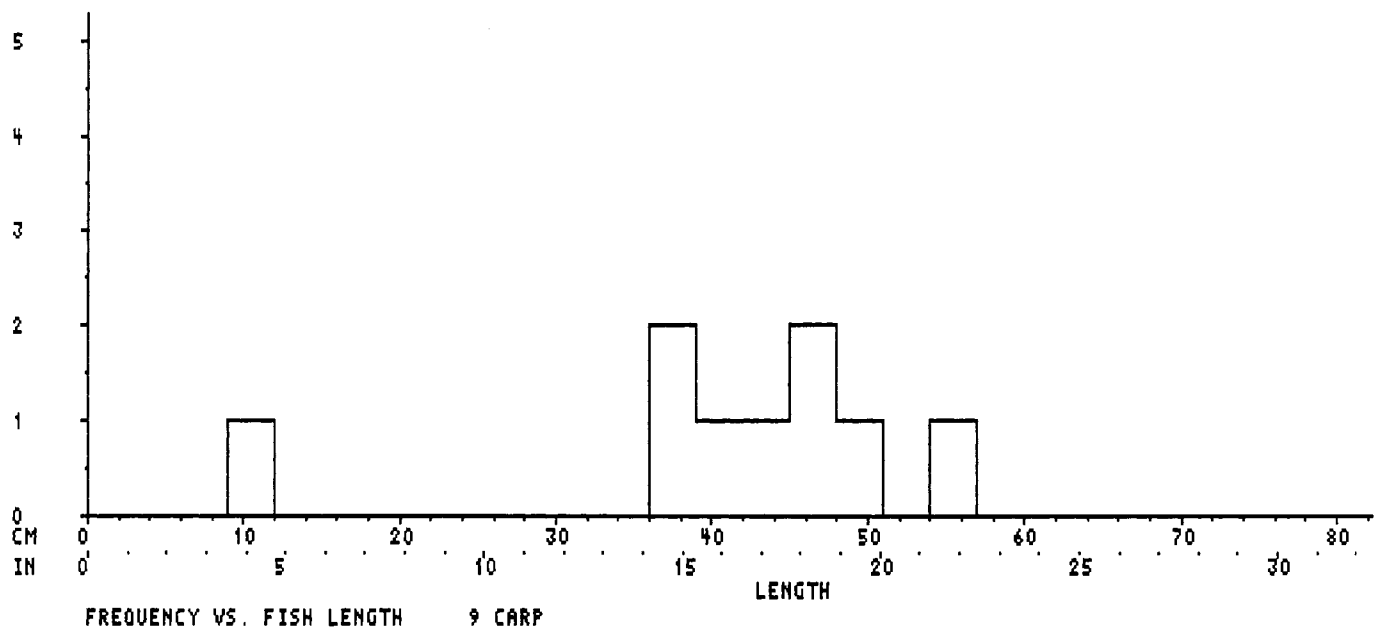


Figure 5. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of carp harvested by all anglers.

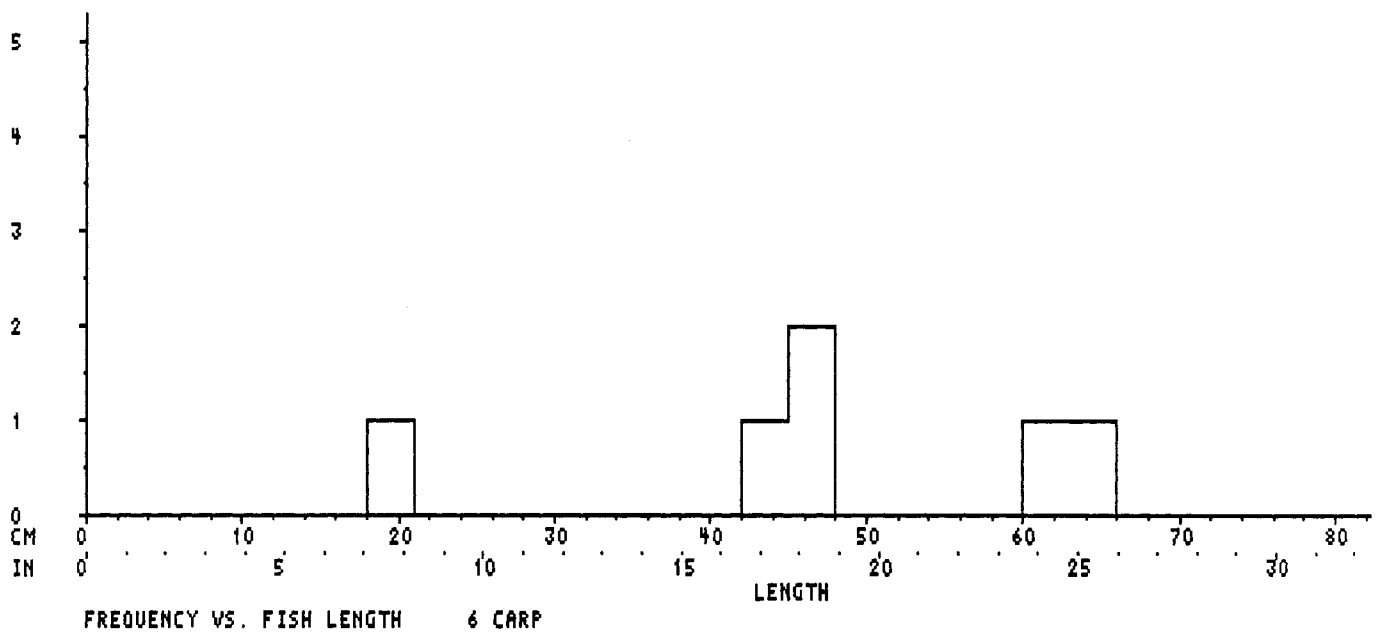


Figure 6. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of carp released by all anglers.

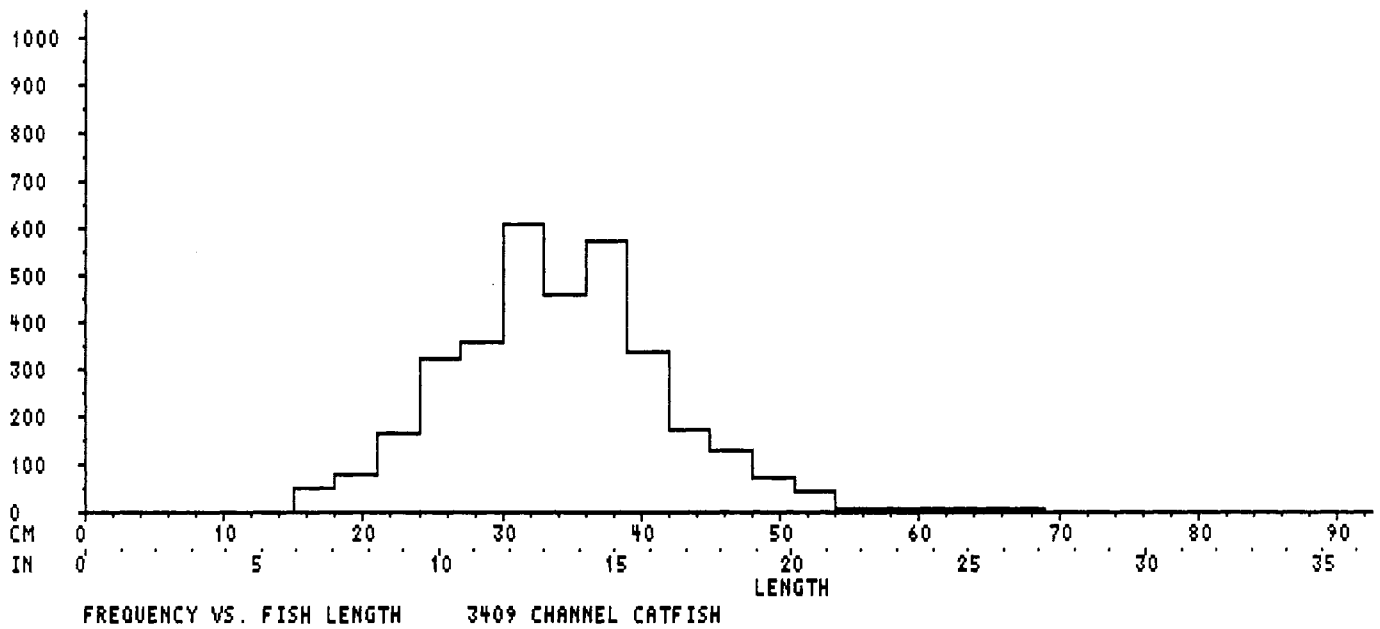


Figure 7. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of channel catfish harvested by all anglers.

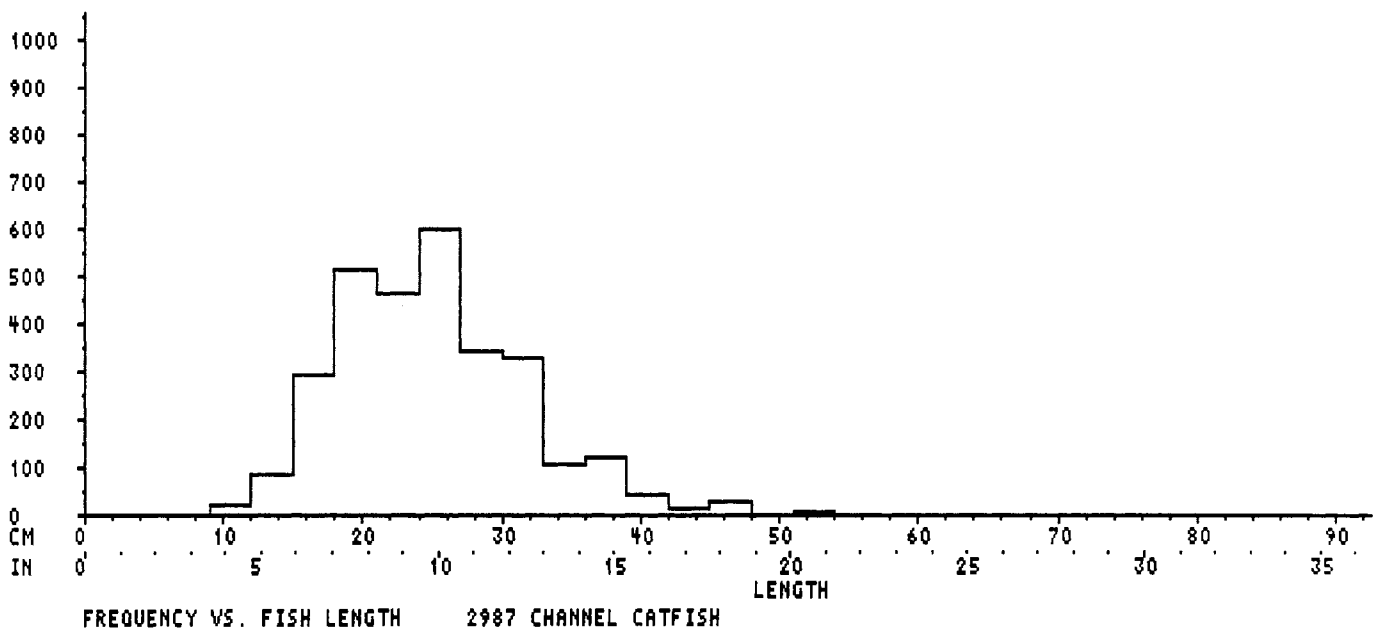


Figure 8. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of channel catfish released by all anglers.

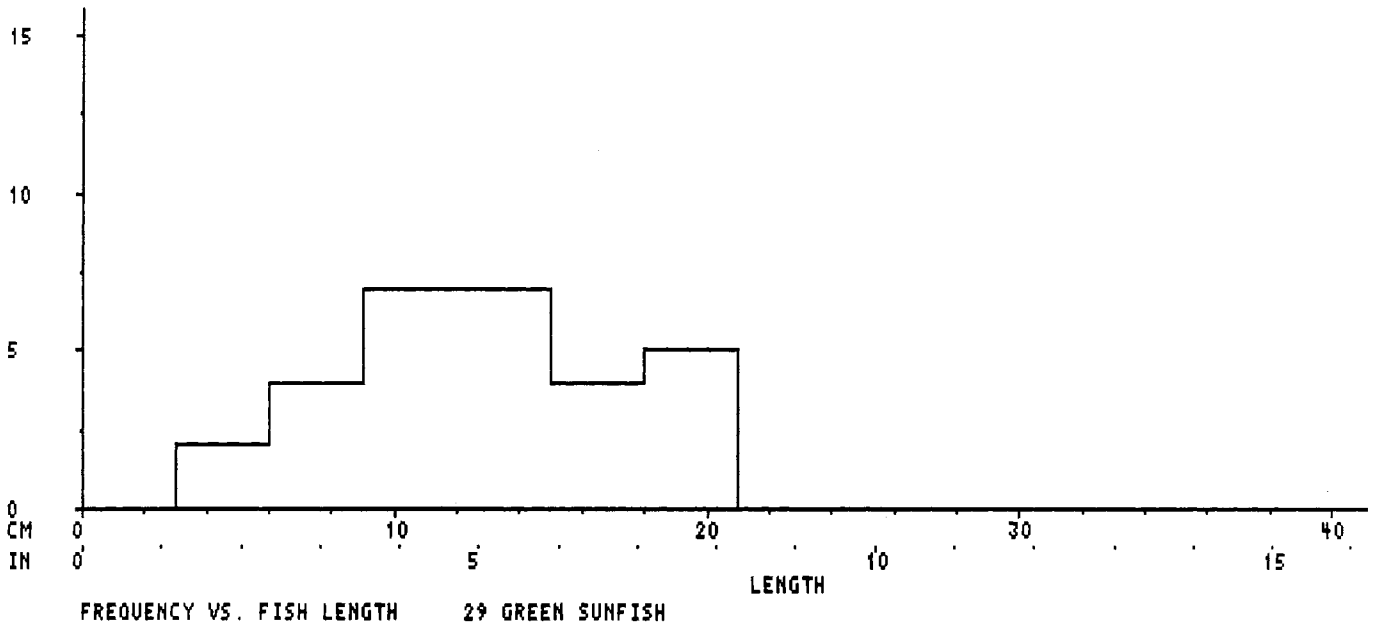


Figure 9. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of green sunfish harvested by all anglers.

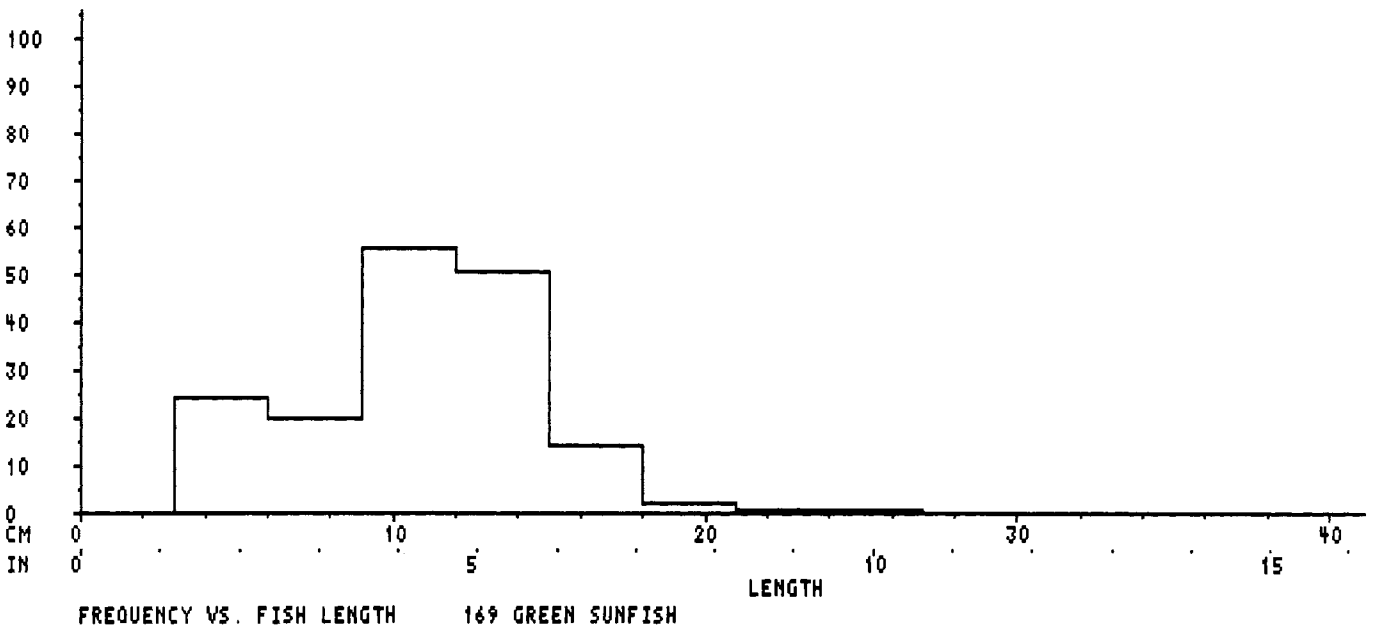


Figure 10. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of green sunfish released by all anglers. Note the difference in scale from Figure 9.

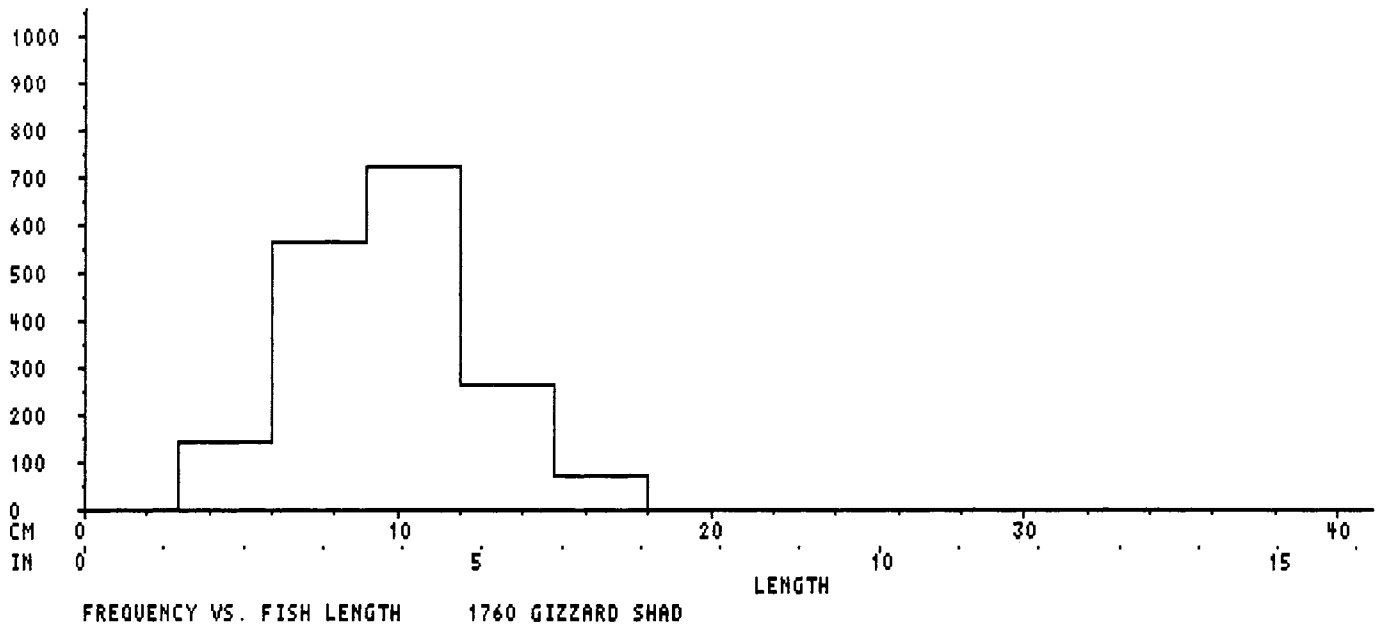


Figure 11. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of gizzard shad harvested by all anglers.

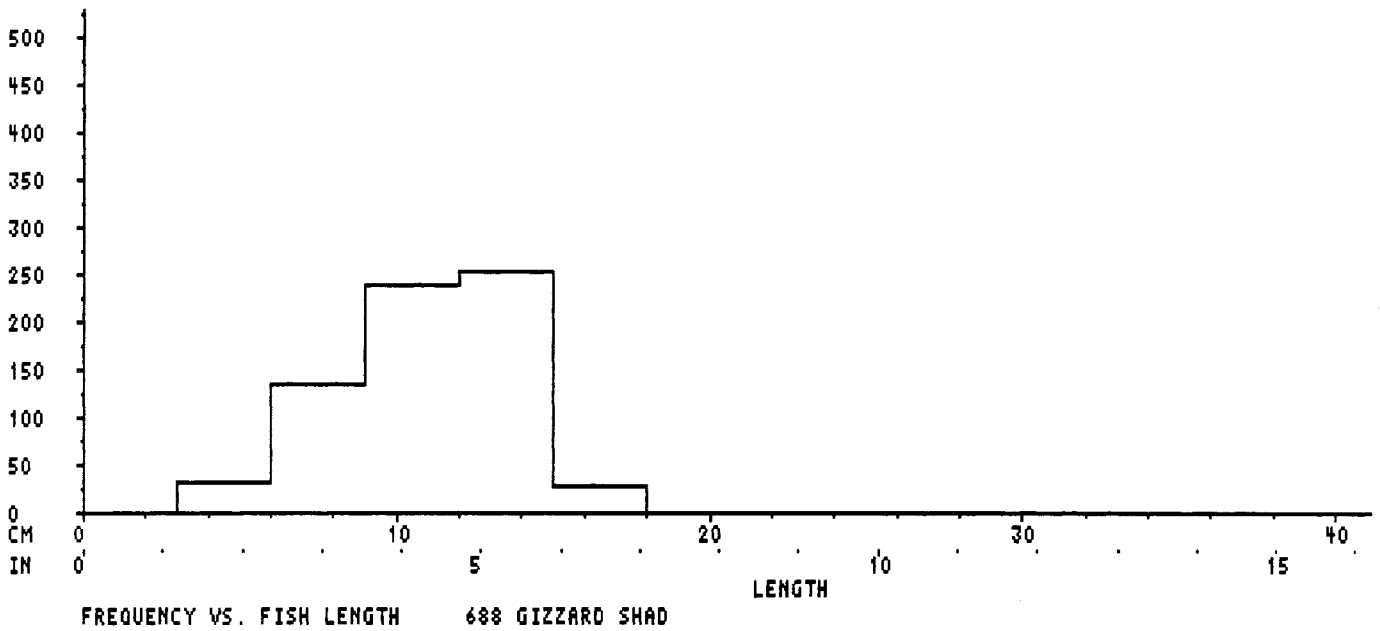


Figure 12. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of gizzard shad released by all anglers. Note the difference in scale from Figure 11.

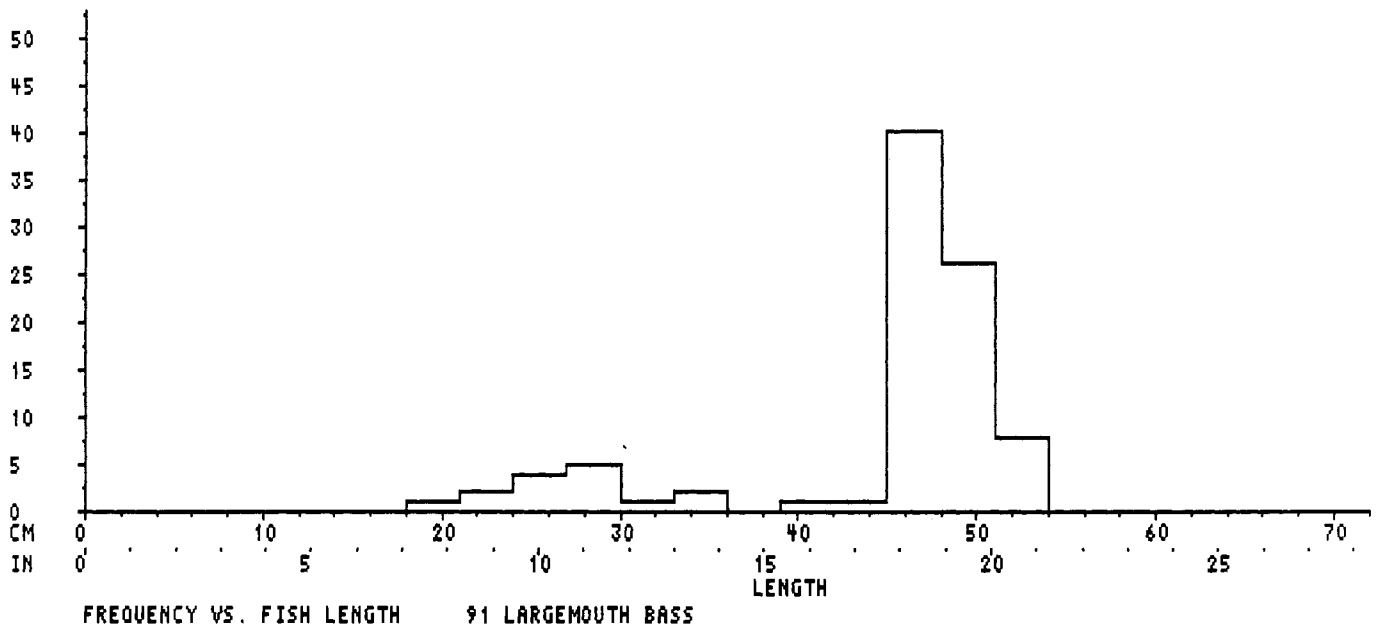


Figure 13. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of largemouth bass harvested by all anglers.

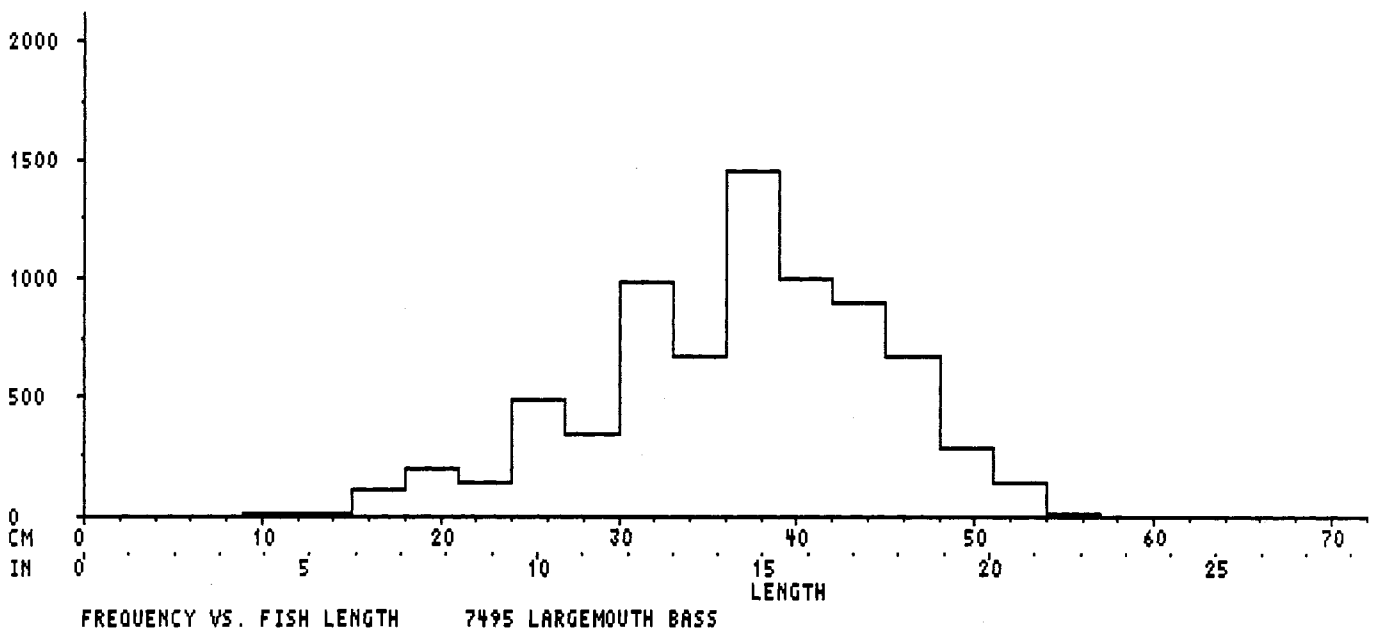


Figure 14. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 13.

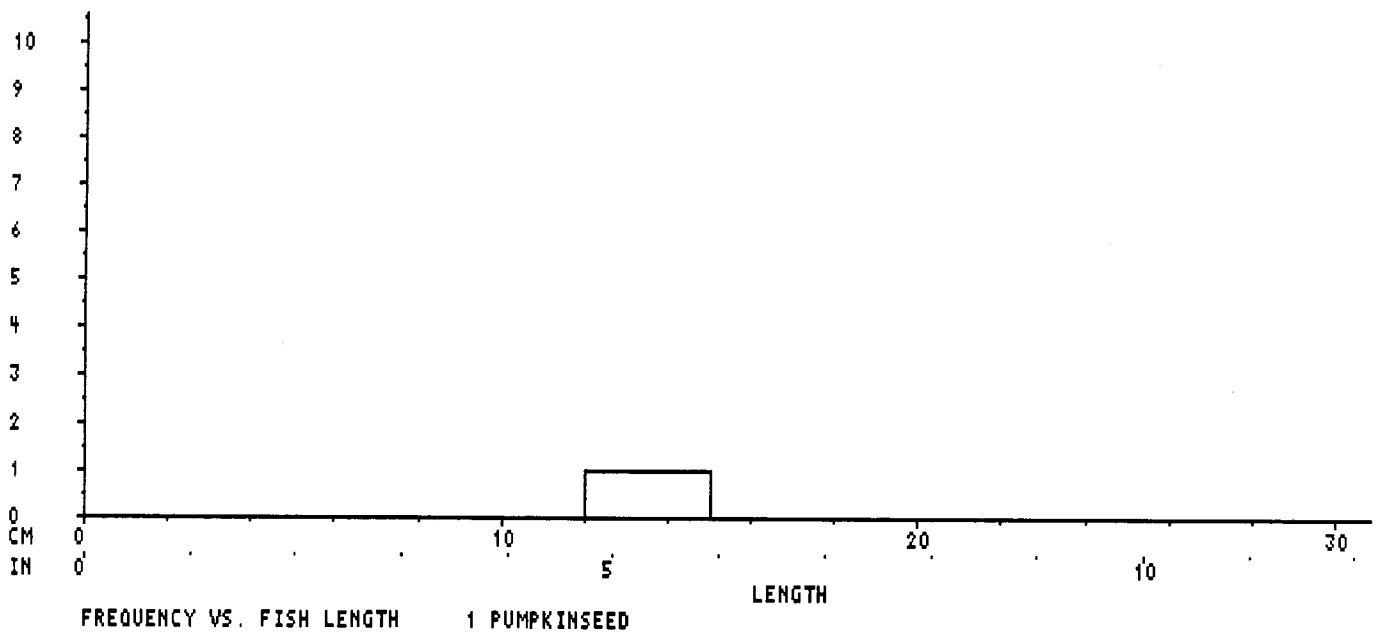


Figure 15. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of pumpkinseed harvested by all anglers.

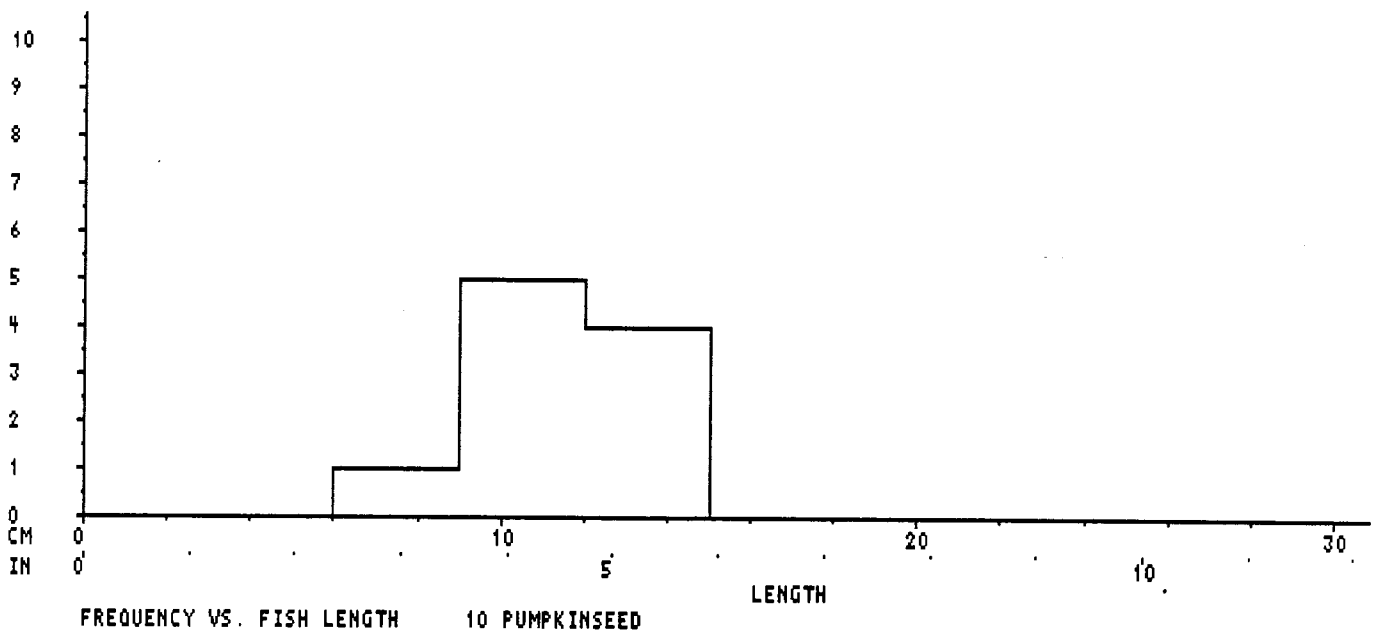


Figure 16. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of pumpkinseed released by all anglers.

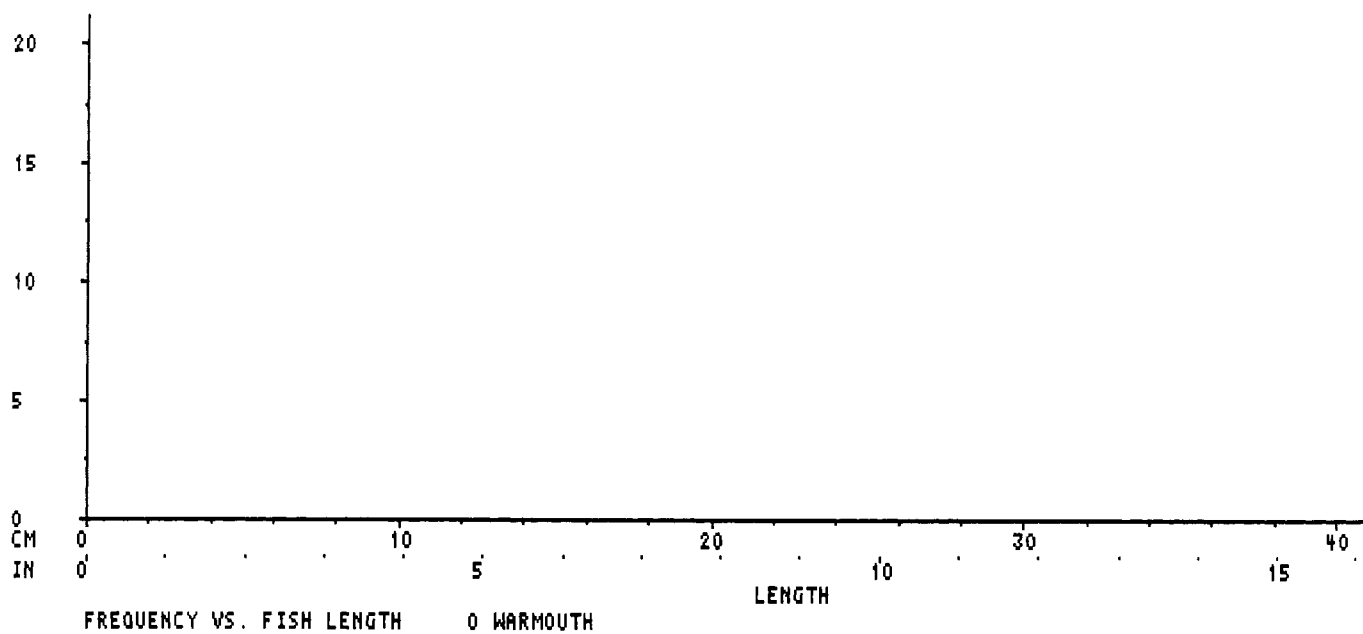


Figure 17. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of warmouth harvested by all anglers.

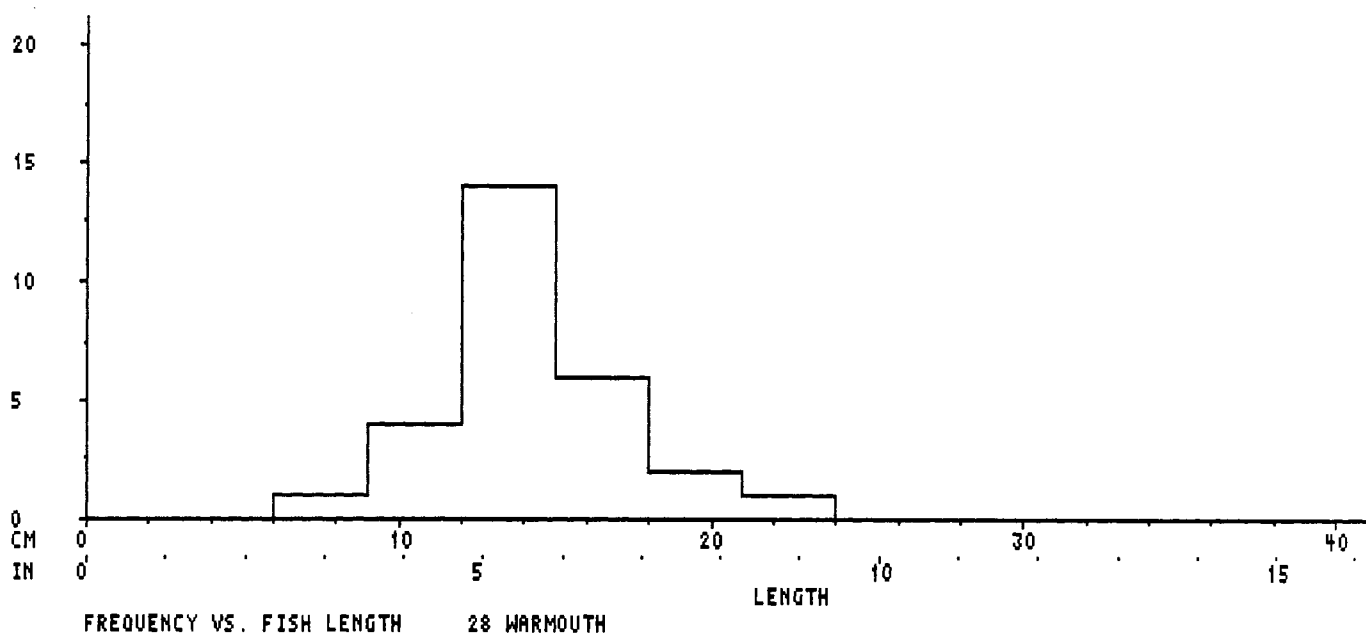


Figure 18. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of warmouth released by all anglers.

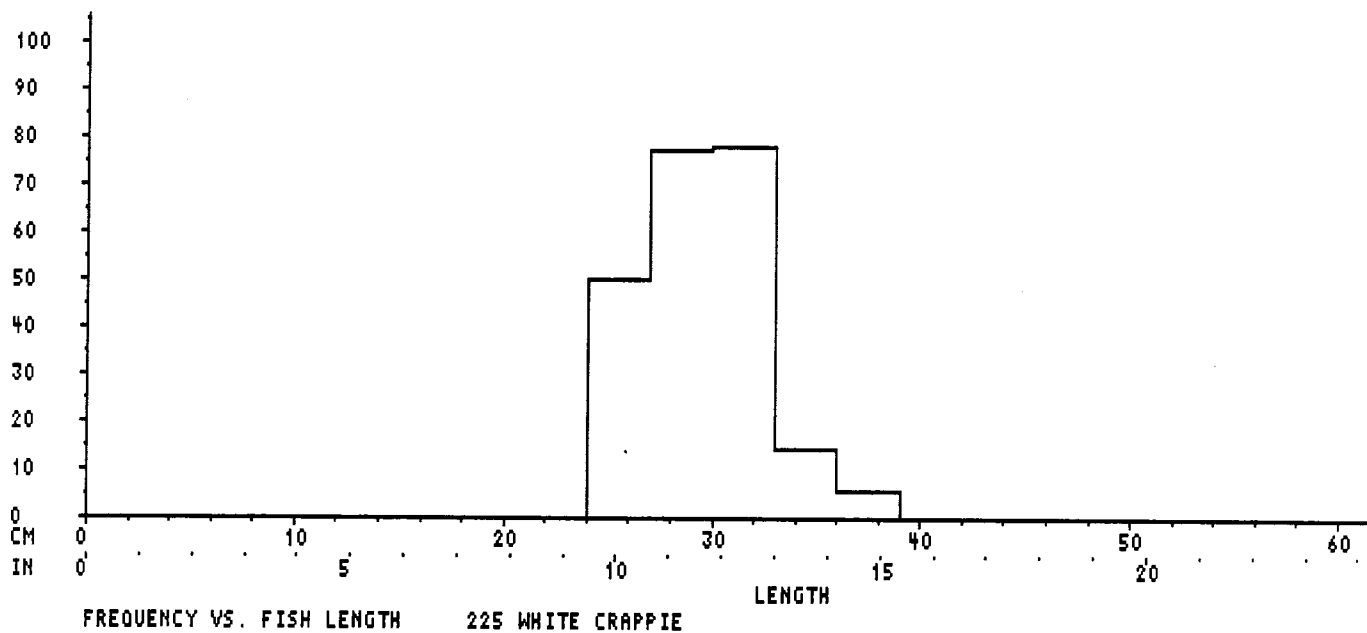


Figure 19. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of white crappie harvested by all anglers.

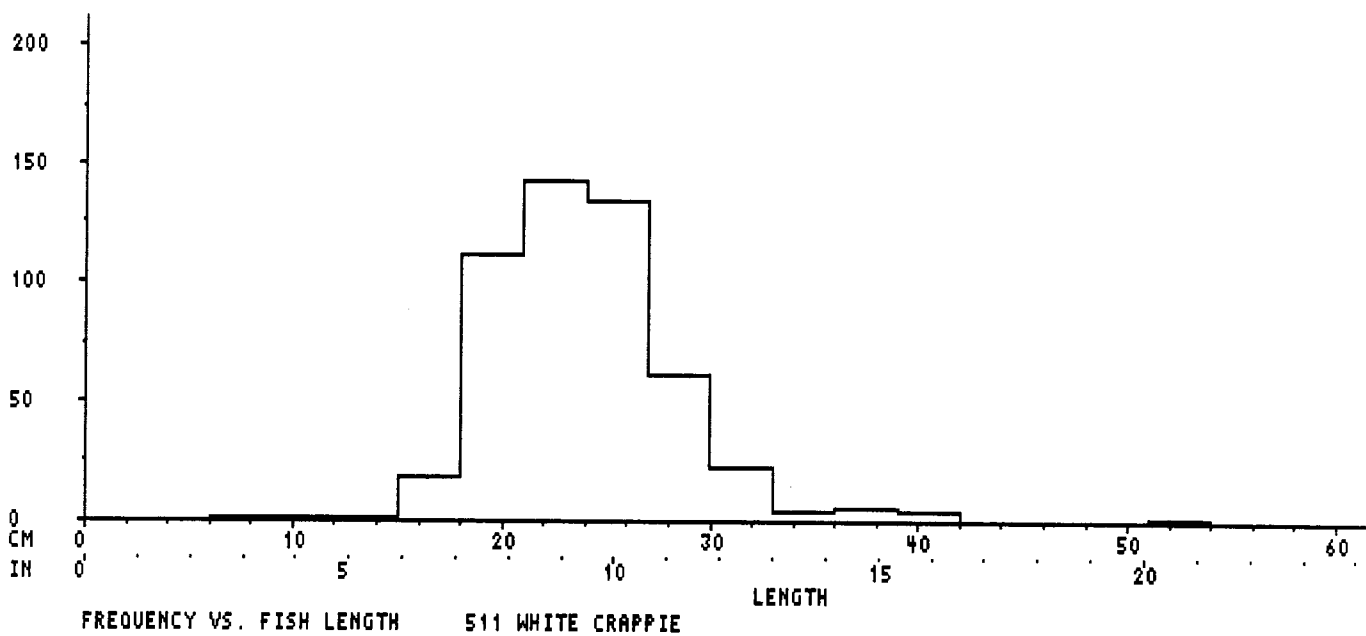


Figure 20. Newton Lake day creel 4/9/2000 through 3/15/2001. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 19.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 RED HILLS LAKE
 40 ACRES
 REGION 5, DISTRICT 19

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 276/693 = 39.8%

NUMBER OF INTERVIEWS: 632

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	1919	1423-2416 (26%)	48	36-60 (26%)	14%
	HOLIDAY	2064	1631-2497 (21%)	52	41-62 (21%)	24%
	TOTAL	3984	3325-4642 (17%)	100	83-116 (17%)	19%
SHORE	WEEKDAY	2625	1951-3300 (26%)	66	49-82 (26%)	10%
	HOLIDAY	3278	2793-3764 (15%)	82	70-94 (15%)	24%
	TOTAL	5904	5073-6735 (14%)	148	127-168 (14%)	18%
BOAT & SHORE	WEEKDAY	4545	3707-5382 (18%)	114	93-135 (18%)	12%
	HOLIDAY	5343	4692-5993 (12%)	134	117-150 (12%)	24%
	TOTAL	9887	8827-10948 (11%)	247	221-274 (11%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
2153	1557-2749	(28%)	.136	.090-.181 (34%)	132.99	53.82	All species
			****	NOT RECORDED			Black crappie
1281	869-1693	(32%)	.078	.046-.110 (42%)	79.14	32.03	Bluegill
5	0-13	(167%)	.002	.000-.007 (235%)	0.30	0.12	Bluegill x Redear
345	193-496	(44%)	.022	.008-.036 (64%)	21.28	8.61	Channel catfish
			****	NOT RECORDED			Green sunfish
122	0-293	(140%)	.005	.000-.012 (144%)	7.52	3.04	Largemouth bass
			****	NOT RECORDED			Rock bass
366	186-546	(49%)	.027	.008-.045 (70%)	22.61	9.15	Redear sunfish
			****	NOT RECORDED			Smallmouth bass
12	0-25	(104%)	.000	.000-.001 (142%)	0.75	0.30	Warmouth
23	0-56	(148%)	.002	.000-.005 (127%)	1.40	0.57	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
608	414-802	(32%)	.035	.024-.047 (33%)	37.58	0.283	All species
			****	NOT RECORDED			Black crappie
239	163-315	(32%)	.014	.008-.019 (40%)	14.77	0.187	Bluegill
2	0-4	(156%)	.001	.000-.003 (238%)	0.10	0.353	Bluegill x Redear
156	80-233	(49%)	.008	.003-.013 (57%)	9.66	0.454	Channel catfish
			****	NOT RECORDED			Green sunfish
92	0-213	(131%)	.004	.000-.010 (129%)	5.69	0.757	Largemouth bass
			****	NOT RECORDED			Rock bass
110	51-169	(53%)	.007	.002-.012 (66%)	6.80	0.301	Redear sunfish
			****	NOT RECORDED			Smallmouth bass
2	0-5	(109%)	.000	.000-.000 (158%)	0.14	0.182	Warmouth
7	0-16	(134%)	.001	.000-.002 (146%)	0.42	0.302	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
1341	914-1768	(32%)	.078	.052-.103 (33%)	33.53	0.623	All species
				**** NOT RECORDED ****			Black crappie
527	359-695	(32%)	.031	.018-.043 (40%)	13.17	0.411	Bluegill
4	0-10	(156%)	.002	.000-.006 (238%)	0.09	0.777	Bluegill x Redear
345	175-514	(49%)	.018	.008-.028 (57%)	8.61	1.000	Channel catfish
				**** NOT RECORDED ****			Green sunfish
203	0-469	(131%)	.009	.000-.021 (129%)	5.08	1.669	Largemouth bass
				**** NOT RECORDED ****			Rock bass
243	113-372	(53%)	.016	.005-.027 (66%)	6.07	0.663	Redear sunfish
				**** NOT RECORDED ****			Smallmouth bass
5	0-10	(109%)	.000	.000-.000 (158%)	0.12	0.401	Warmouth
15	0-35	(134%)	.002	.000-.004 (146%)	0.38	0.666	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
7993	6261-9725	(22%)	.563	.416-.710	(26%)	493.76	199.82	All species
37	0-96	(158%)	.005	.000-.017	(220%)	2.31	0.93	Black crappie
4065	2697-5433	(34%)	.284	.167-.400	(41%)	251.11	101.62	Bluegill
5	0-13	(167%)	.002	.000-.007	(235%)	0.30	0.12	Bluegill x Redear
520	324-715	(38%)	.035	.016-.054	(53%)	32.11	12.99	Channel catfish
5	0-12	(157%)	.001	.000-.003	(229%)	0.28	0.11	Green sunfish
2770	1998-3541	(28%)	.194	.137-.251	(29%)	171.11	69.25	Largemouth bass
14	0-31	(129%)	.001	.000-.003	(141%)	0.85	0.34	Rock bass
438	248-629	(43%)	.030	.011-.049	(62%)	27.09	10.96	Redear sunfish
52	0-181	(248%)	.002	.000-.007	(223%)	3.22	1.30	Smallmouth bass
65	26-104	(60%)	.006	.000-.014	(115%)	3.99	1.62	Warmouth
23	0-56	(148%)	.002	.000-.005	(127%)	1.40	0.57	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
2102	1593-2611	(24%)	.135	.106-.164	(21%)	129.86	0.263	All species
14	0-44	(214%)	.003	.000-.009	(233%)	0.86	0.371	Black crappie
426	300-552	(30%)	.028	.019-.037	(32%)	26.33	0.105	Bluegill
2	0-4	(156%)	.001	.000-.003	(238%)	0.10	0.353	Bluegill x Redear
185	105-266	(44%)	.010	.005-.015	(50%)	11.46	0.357	Channel catfish
1	0-2	(181%)	.000	.000-.001	(233%)	0.05	0.193	Green sunfish
1332	889-1774	(33%)	.084	.060-.107	(28%)	82.25	0.481	Largemouth bass
2	0-4	(125%)	.000	.000-.000	(132%)	0.10	0.114	Rock bass
120	61-180	(49%)	.008	.003-.013	(62%)	7.44	0.275	Redear sunfish
6	0-22	(256%)	.000	.000-.001	(250%)	0.37	0.116	Smallmouth bass
8	3-12	(64%)	.001	.000-.002	(152%)	0.47	0.118	Warmouth
7	0-16	(134%)	.001	.000-.002	(146%)	0.42	0.302	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
4635	3512-5757	(24%)	.298	.235-.361 (21%)	115.86	0.580	All species
31	0-96	(214%)	.006	.000-.019 (233%)	0.77	0.819	Black crappie
940	662-1218	(30%)	.062	.042-.082 (32%)	23.49	0.231	Bluegill
4	0-10	(156%)	.002	.000-.006 (238%)	0.09	0.777	Bluegill x Redear
409	231-587	(44%)	.022	.011-.033 (50%)	10.22	0.787	Channel catfish
2	0-5	(181%)	.001	.000-.002 (233%)	0.05	0.425	Green sunfish
2935	1961-3910	(33%)	.184	.132-.237 (28%)	73.39	1.060	Largemouth bass
3	0-8	(125%)	.000	.000-.001 (132%)	0.09	0.252	Rock bass
265	135-396	(49%)	.017	.007-.028 (62%)	6.64	0.605	Redear sunfish
13	0-48	(256%)	.000	.000-.002 (250%)	0.33	0.256	Smallmouth bass
17	6-28	(64%)	.002	.000-.004 (152%)	0.42	0.259	Warmouth
15	0-35	(134%)	.002	.000-.004 (146%)	0.38	0.666	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	2.7	2.1-3.3	(23%)	0.5	8.6	42
SHORE	1.5	1.2-1.9	(25%)	0.2	7.0	30
BOAT & SHORE	2.2	1.8-2.6	(19%)	0.2	8.6	72
MILES TRAVELED	33.9	26.5-41.3	(22%)	1	925	523
SUCCESS RATING (1-10)	3.5	3.3-3.8	(6%)	1	10	515

*23 samples were from split interviews of completed trips.

11.8% of all 608 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 8 out of 608 interviews with illegal harvests.

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

PARTY SIZE:	1	2	3	4	5	6	7	8	9	10+
BOAT INTERVIEWS	82	114	21	15						
SHORE INTERVIEWS	133	135	47	43	9	6	1		1	1

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

288 (47.4%)	ANY	All species
99 (16.3%)	BLG	Bluegill
39 (6.4%)	CCF	Channel catfish
8 (1.3%)	CRP	Crappie spp.
168 (27.6%)	LMB	Largemouth bass
5 (0.8%)	RSF	Redear sunfish
1 (0.2%)	SUN	Sunfish spp. excluding Crappie and Black Bass

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bluegill																
HARVEST	118	1	-	2	2	-	1	-	-	-	-	-	-	-	-	-
RELEASE	99	13	4	-	3	-	-	-	-	-	2	-	-	2	-	1
Channel catfish																
HARVEST	121	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	117	3	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	123	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	122	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	79	25	13	2	3	-	1	-	-	-	1	-	-	-	-	-
Redear sunfish																
HARVEST	113	6	3	-	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	122	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	121	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	123	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

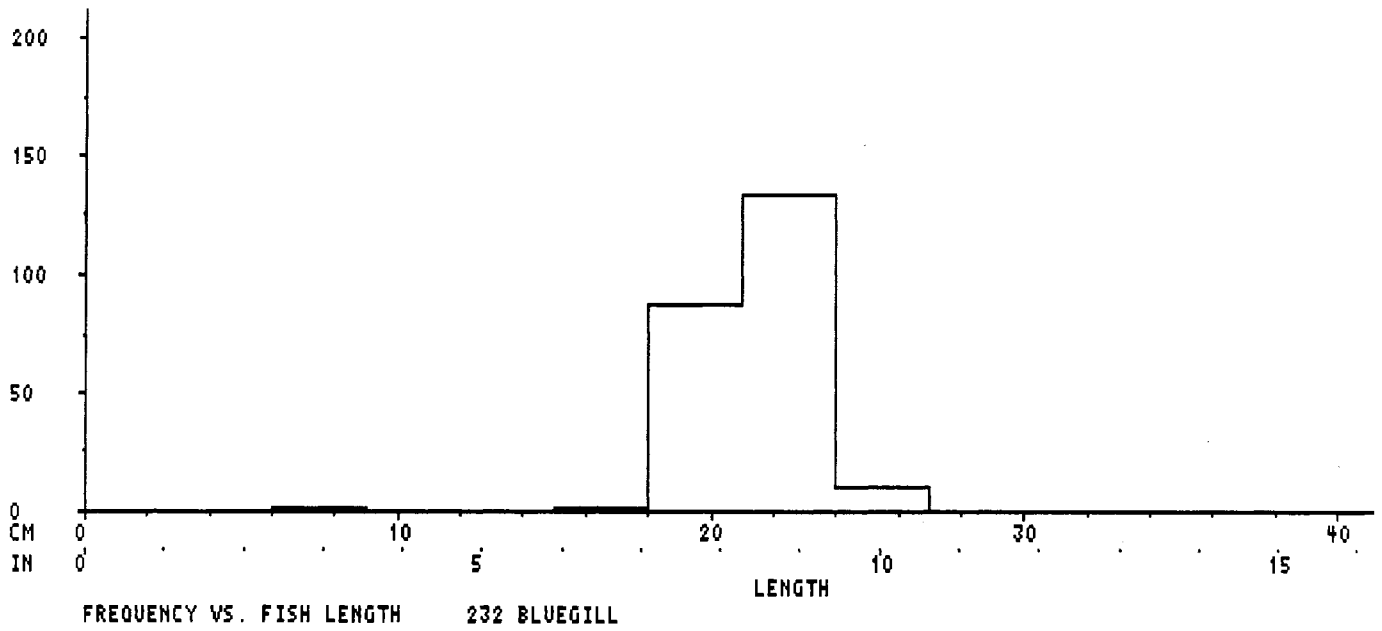


Figure 1. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

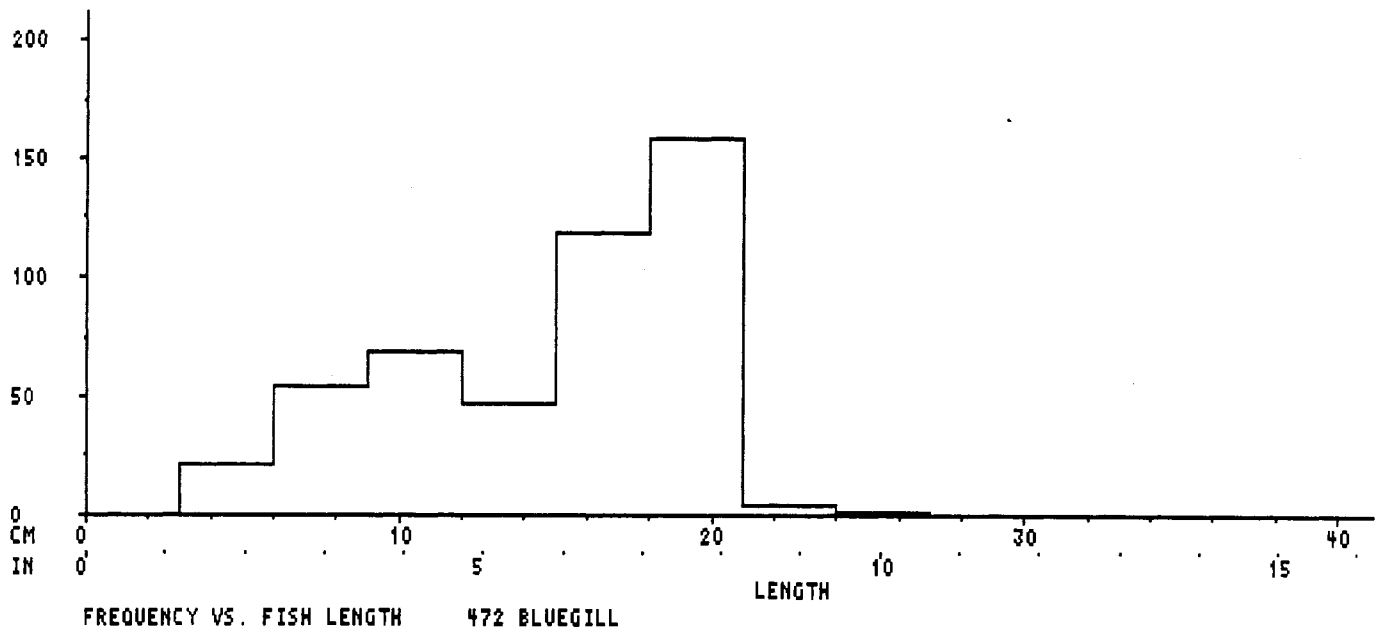


Figure 2. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

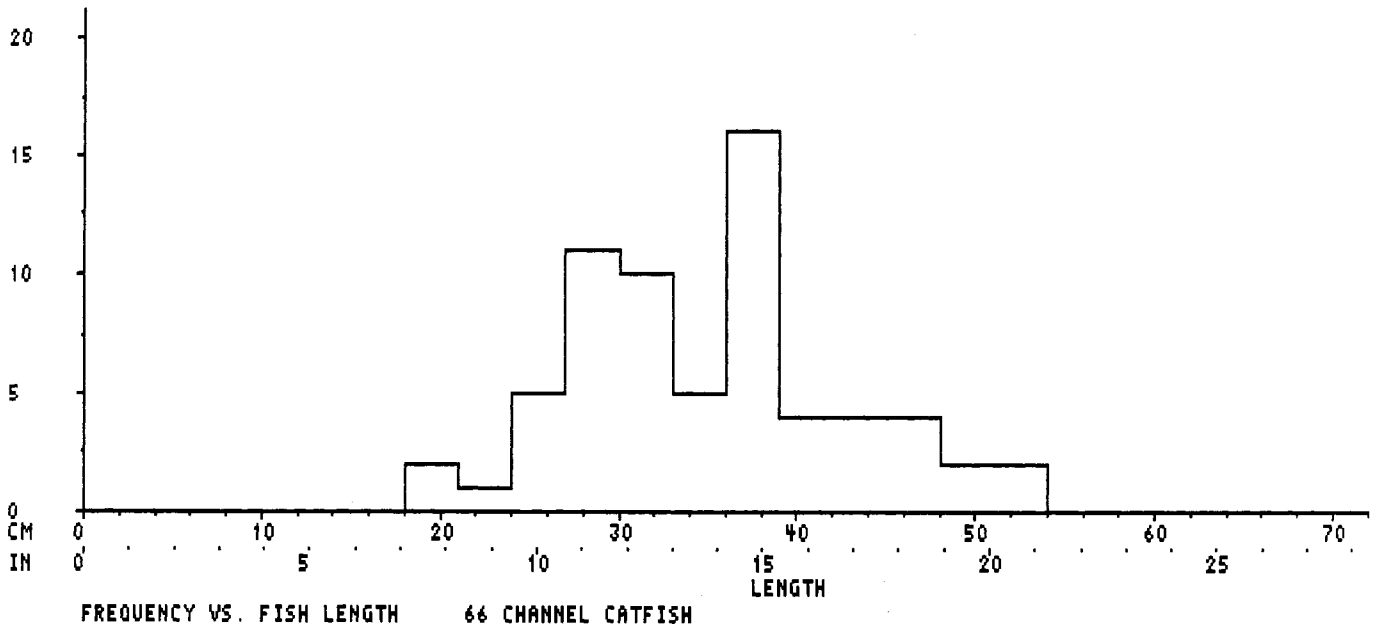


Figure 3. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

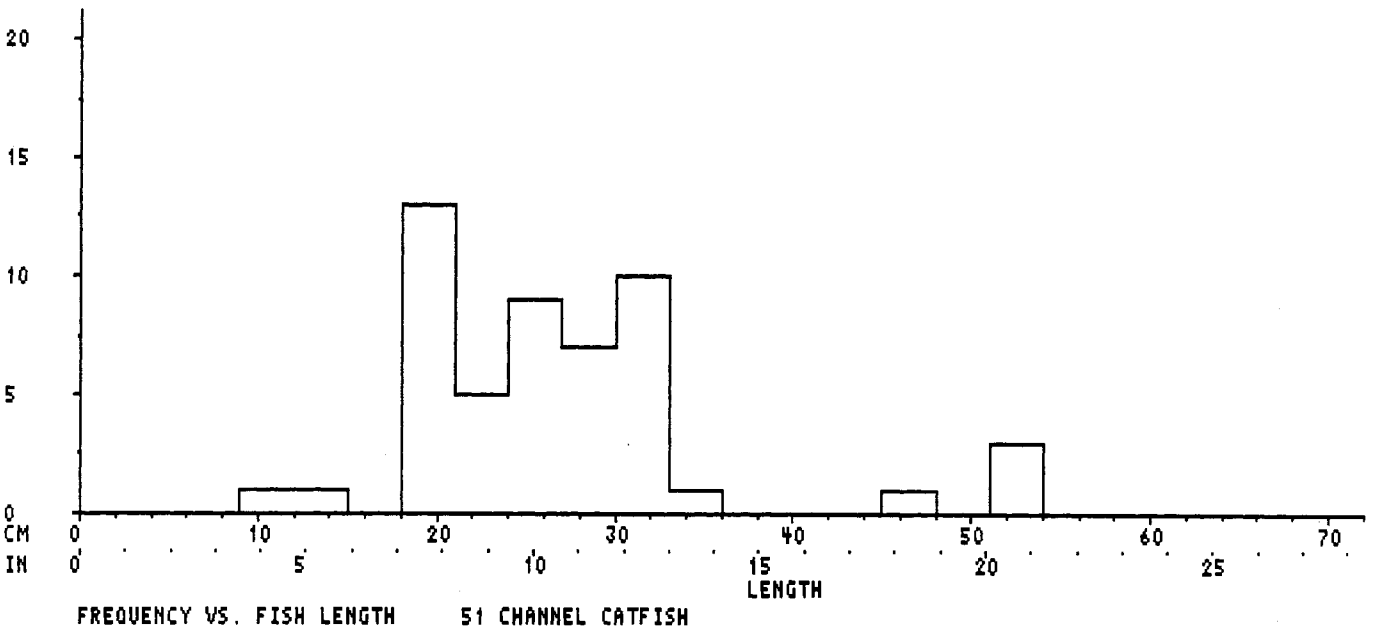


Figure 4. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

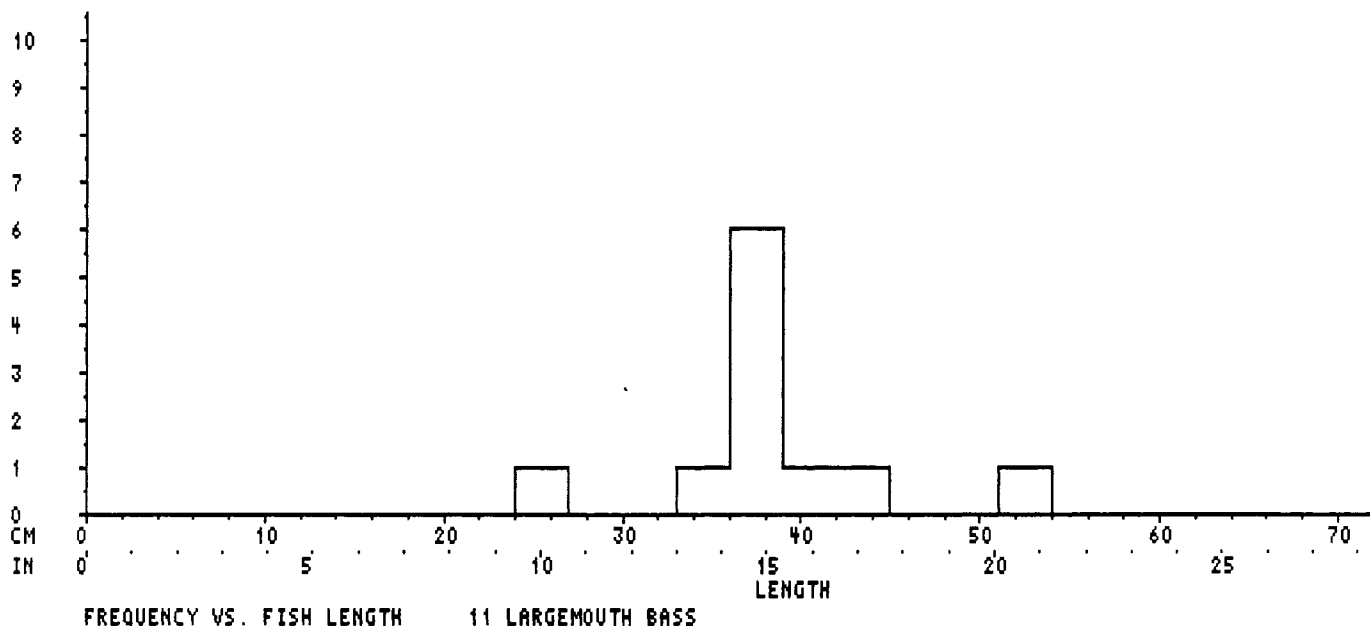


Figure 5. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

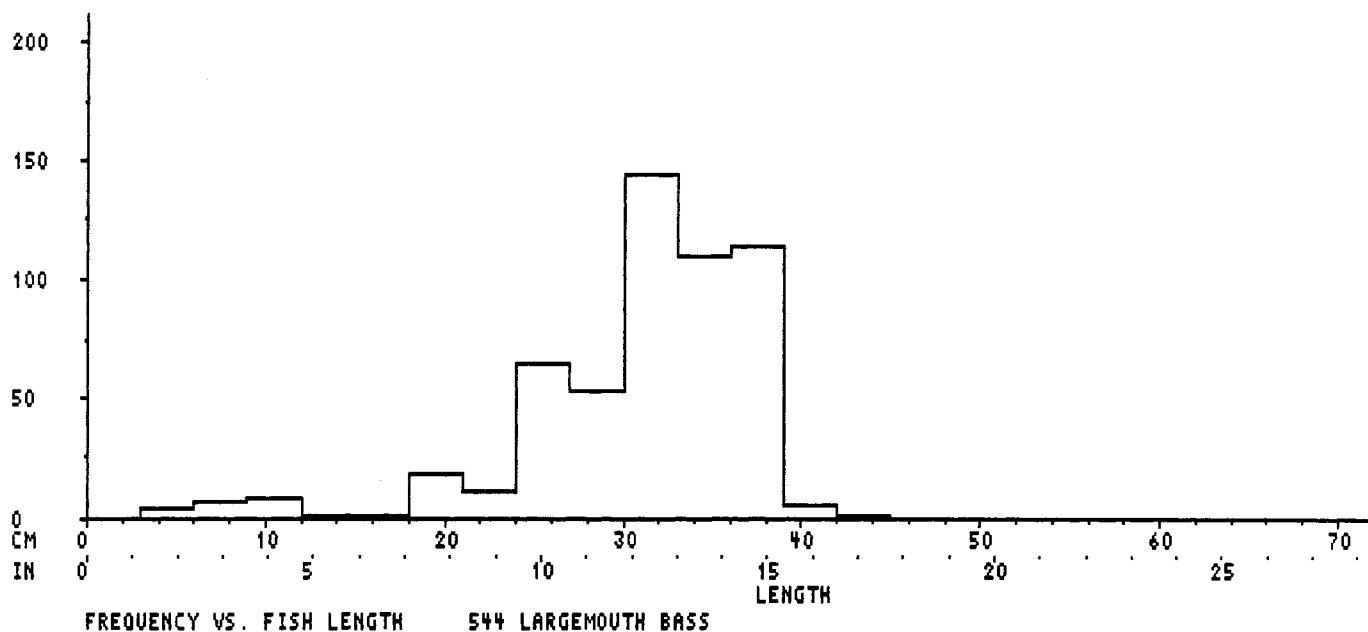


Figure 6. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 5.

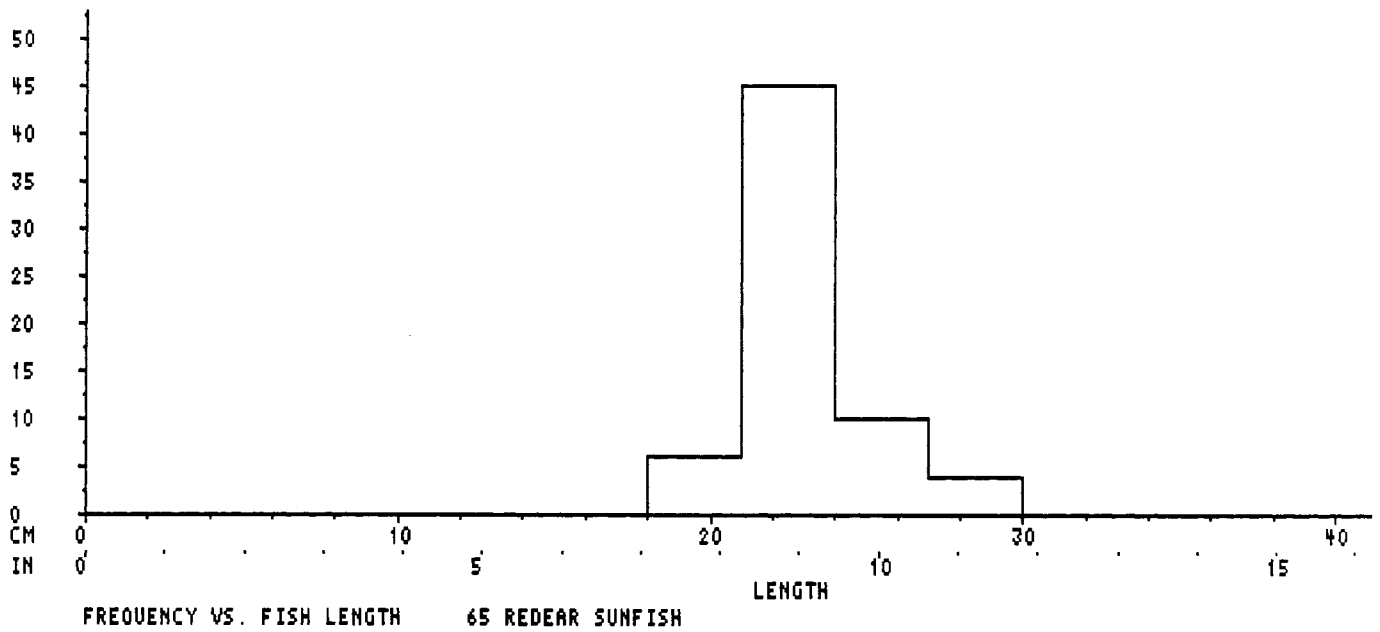


Figure 7. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of redear sunfish harvested by all anglers.

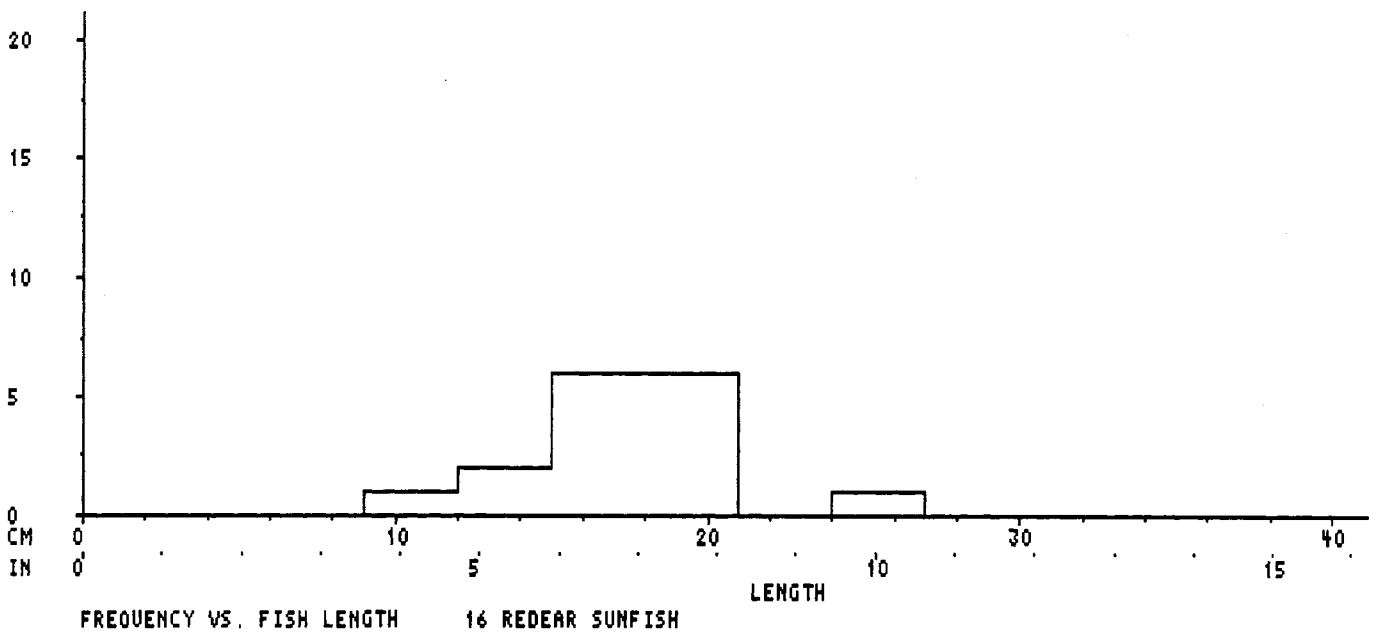


Figure 8. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of redear sunfish released by all anglers. Note the difference in scale from Figure 7.

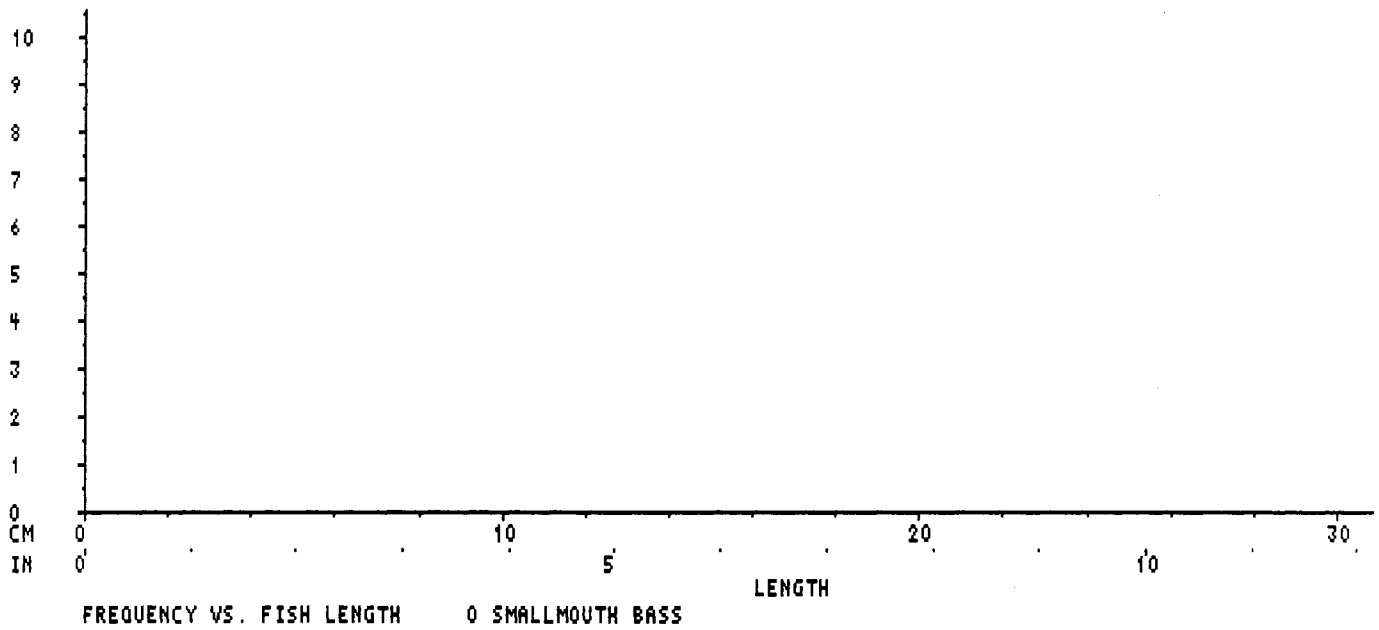


Figure 9. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of smallmouth bass harvested by all anglers.

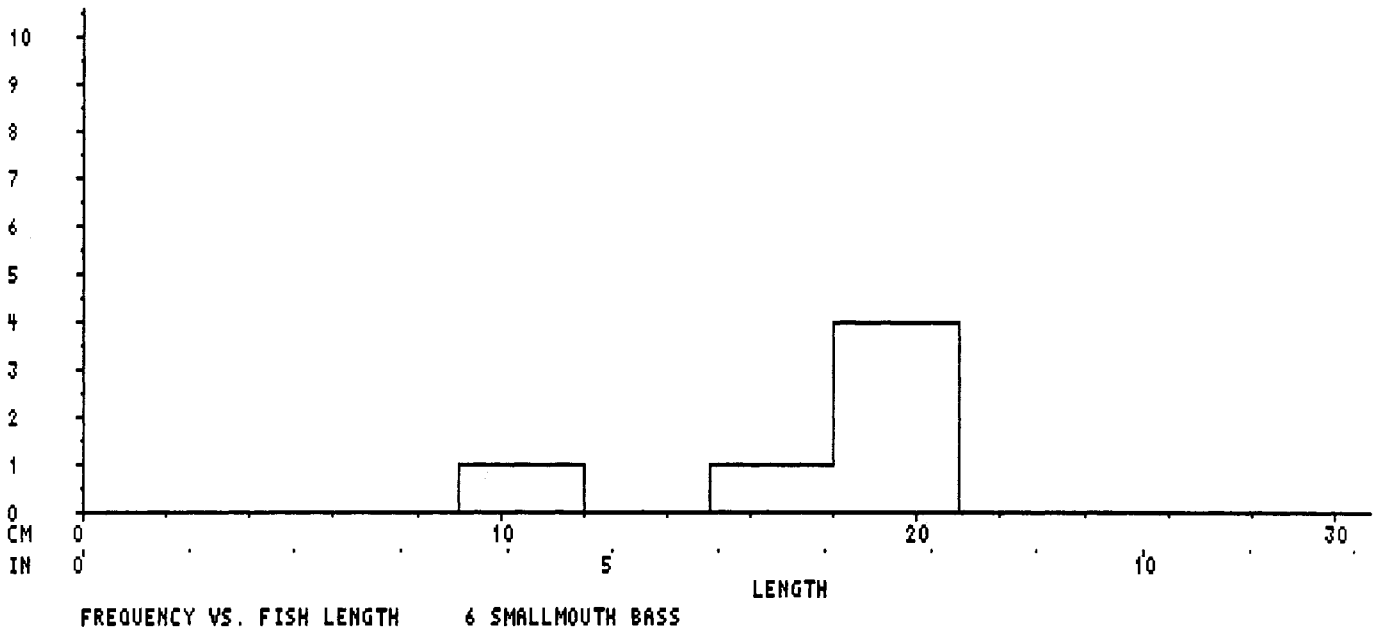


Figure 10. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of smallmouth bass released by all anglers.

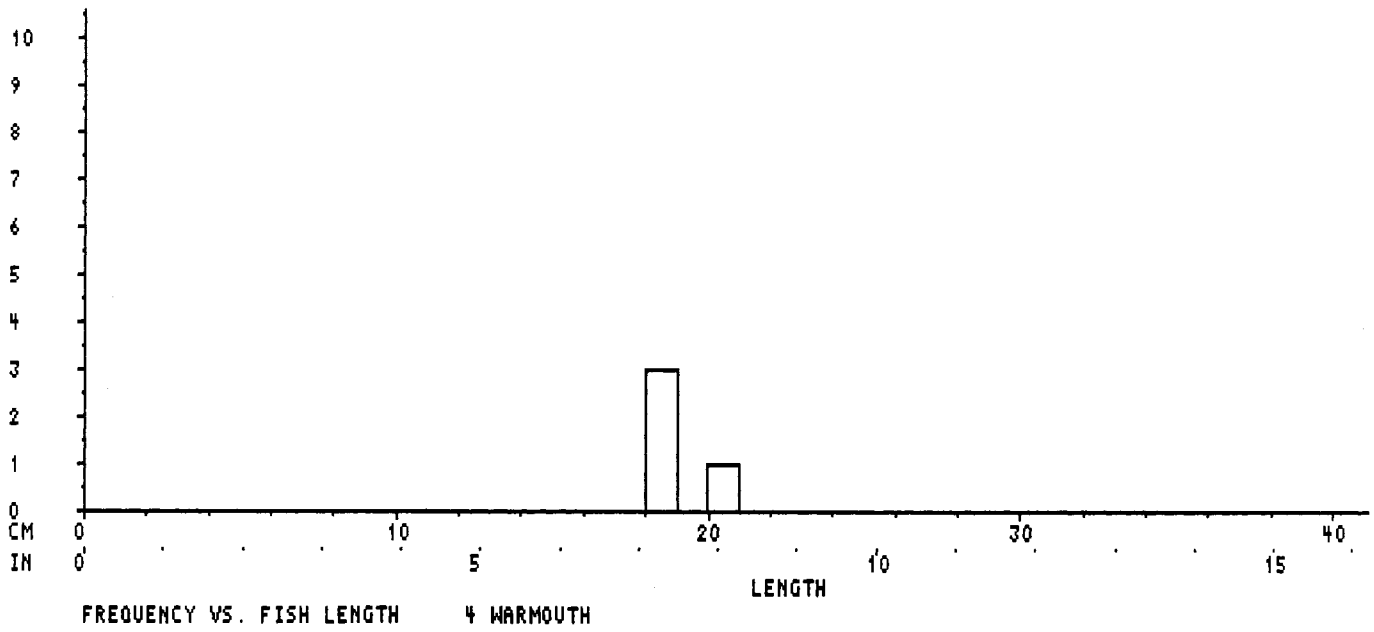


Figure 11. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth harvested by all anglers.

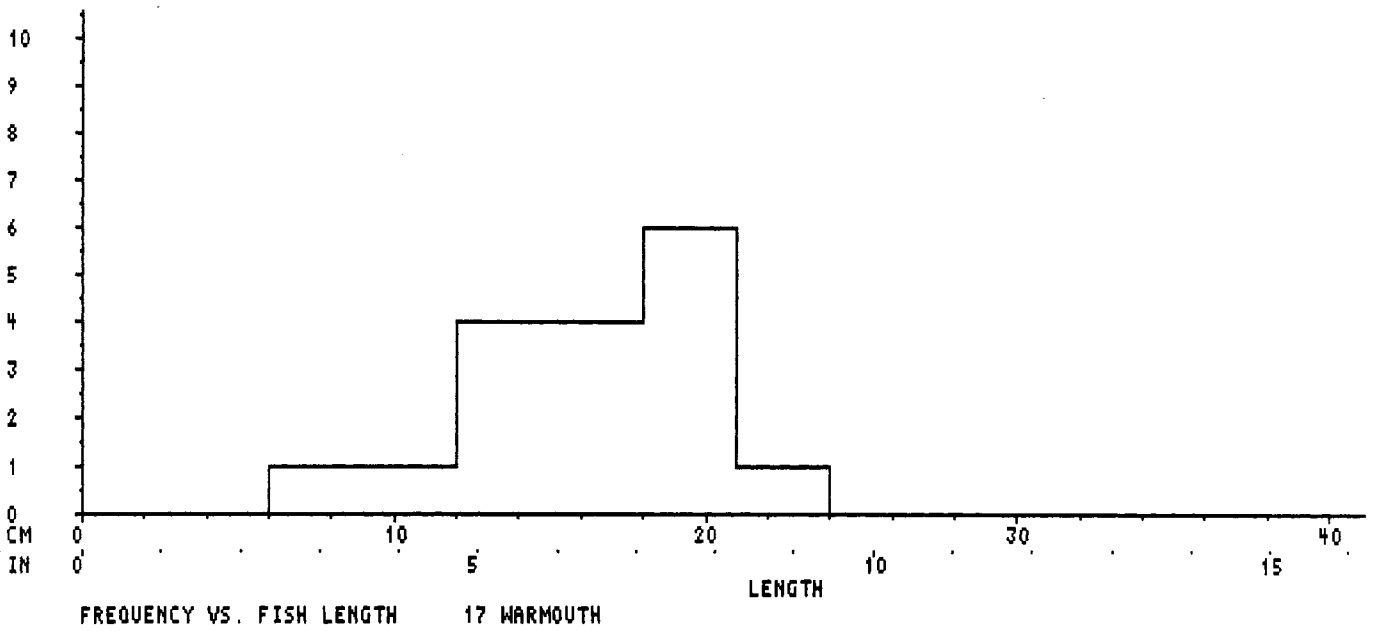


Figure 12. Red Hills Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of warmouth released by all anglers.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000-2001 LAKE SANGCHRIS
 2165 ACRES
 REGION 4, DISTRICT 15

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 02/15/2001
 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: 517/1014 = 51.0%

NUMBER OF INTERVIEWS: 5007

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	46241	40477-52005 (12%)	21	19-24 (12%)	10%
	HOLIDAY	57749	49373-66126 (15%)	27	23-31 (15%)	27%
	TOTAL	103991	93822-114159(10%)	48	43-53 (10%)	19%
SHORE	WEEKDAY	11562	9656-13467 (16%)	5	4-6 (16%)	7%
	HOLIDAY	16864	13279-20450 (21%)	8	6-9 (21%)	18%
	TOTAL	28426	24366-32486 (14%)	13	11-15 (14%)	13%
BOAT & SHORE	WEEKDAY	57803	51732-63874 (11%)	27	24-30 (11%)	10%
	HOLIDAY	74614	65502-83726 (12%)	34	30-39 (12%)	24%
	TOTAL	132416	121467-143366(8%)	61	56-66 (8%)	18%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
52902	45843-59961 (13%)		.369	.312-.426 (15%)	60.38	24.44	All species
264	137-391 (48%)		.002	.000-.003 (78%)	0.30	0.12	Bluegill x Green sun
			****	NOT RECORDED			Black bullhead
2373	1485-3261 (37%)		.012	.008-.017 (39%)	2.71	1.10	Black crappie
7763	6036-9491 (22%)		.062	.046-.078 (26%)	8.86	3.59	Bluegill
392	129-655 (67%)		.002	.001-.004 (76%)	0.45	0.18	Carp
8063	6788-9339 (16%)		.053	.041-.065 (23%)	9.20	3.72	Channel catfish
330	207-454 (37%)		.001	.000-.003 (123%)	0.38	0.15	Flathead catfish
129	39-219 (69%)		.000	.000-.001 (78%)	0.15	0.06	Freshwater drum
422	109-736 (74%)		.007	.000-.014 (109%)	0.48	0.20	Green sunfish
773	82-1465 (89%)		.003	.000-.006 (109%)	0.88	0.36	Gizzard shad
2294	1692-2896 (26%)		.015	.008-.021 (44%)	2.62	1.06	Largemouth bass
1604	817-2392 (49%)		.019	.007-.031 (64%)	1.83	0.74	Striped bass
1747	610-2884 (65%)		.007	.001-.014 (92%)	1.99	0.81	Threadfin shad
6	0-18 (216%)		.000	.000-.000 (216%)	0.01	0.00	Warmouth
2360	1199-3521 (49%)		.026	.007-.045 (73%)	2.69	1.09	White bass
22907	17578-28237 (23%)		.147	.111-.183 (25%)	26.14	10.58	White crappie
153	28-277 (81%)		.001	.000-.001 (89%)	0.17	0.07	Yellow bullhead
1320	856-1784 (35%)		.011	.007-.015 (40%)	1.51	0.61	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
15235	12104-18367 (21%)		.111	.078-.143 (30%)	17.39	0.288	All species
44	21-66 (51%)		.000	.000-.001 (101%)	0.05	0.166	Bluegill x Green sun
			****	NOT RECORDED			Black bullhead
535	305-765 (43%)		.003	.002-.004 (37%)	0.61	0.225	Black crappie
438	330-547 (25%)		.004	.003-.005 (27%)	0.50	0.056	Bluegill
334	74-593 (78%)		.002	.000-.004 (87%)	0.38	0.851	Carp
2089	1728-2451 (17%)		.012	.009-.014 (21%)	2.38	0.259	Channel catfish
415	241-588 (42%)		.001	.000-.002 (83%)	0.47	1.255	Flathead catfish
26	6-46 (75%)		.000	.000-.000 (97%)	0.03	0.203	Freshwater drum
15	3-26 (78%)		.000	.000-.001 (115%)	0.02	0.035	Green sunfish
24	0-48 (100%)		.000	.000-.000 (108%)	0.03	0.031	Gizzard shad
1549	1078-2020 (30%)		.008	.002-.015 (79%)	1.77	0.675	Largemouth bass
3129	1168-5089 (63%)		.037	.009-.065 (76%)	3.57	1.950	Striped bass
			****	NOT RECORDED			Threadfin shad
1	0-4 (214%)		.000	.000-.000 (216%)	0.00	0.197	Warmouth
754	384-1124 (49%)		.008	.002-.014 (79%)	0.86	0.320	White bass
5767	3910-7623 (32%)		.034	.025-.044 (27%)	6.58	0.252	White crappie
42	9-75 (78%)		.000	.000-.000 (86%)	0.05	0.277	Yellow bullhead
74	47-101 (36%)		.001	.000-.001 (41%)	0.08	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
33588	26684-40492 (21%)	.244	.171-.316 (30%)	15.51	0.635	All species
97	47-146 (51%)	.001	.000-.002 (101%)	0.04	0.366	Bluegill x Green sun
		****	NOT RECORDED ****			Black bullhead
1179	672-1686 (43%)	.006	.004-.008 (37%)	0.54	0.497	Black crappie
967	727-1206 (25%)	.008	.006-.010 (27%)	0.45	0.125	Bluegill
735	164-1307 (78%)	.005	.001-.009 (87%)	0.34	1.876	Carp
4606	3809-5403 (17%)	.026	.021-.032 (21%)	2.13	0.571	Channel catfish
914	532-1297 (42%)	.003	.000-.005 (83%)	0.42	2.767	Flathead catfish
58	14-101 (75%)	.000	.000-.000 (97%)	0.03	0.447	Freshwater drum
33	7-58 (78%)	.001	.000-.001 (115%)	0.02	0.077	Green sunfish
53	0-105 (100%)	.000	.000-.000 (108%)	0.02	0.068	Gizzard shad
3414	2377-4452 (30%)	.018	.004-.032 (79%)	1.58	1.488	Largemouth bass
6897	2575-11220 (63%)	.082	.020-.144 (76%)	3.19	4.300	Striped bass
		****	NOT RECORDED ****			Threadfin shad
3	0-8 (214%)	.000	.000-.000 (216%)	0.00	0.434	Warmouth
1663	847-2479 (49%)	.017	.004-.030 (79%)	0.77	0.705	White bass
12713	8620-16806 (32%)	.076	.055-.096 (27%)	5.87	0.555	White crappie
93	20-166 (78%)	.000	.000-.001 (86%)	0.04	0.610	Yellow bullhead
164	104-223 (36%)	.001	.001-.002 (41%)	0.08	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
298544	270663-326424 (9%)	1.963	1.742-2.185 (11%)	340.74	137.90	All species
948	385-1510 (59%)	.004	.002-.007 (58%)	1.08	0.44	Bluegill x Green sun
36	0-82 (127%)	.000	.000-.000 (126%)	0.04	0.02	Black bullhead
9636	6831-12441 (29%)	.071	.000-.162 (127%)	11.00	4.45	Black crappie
67523	59686-75359 (12%)	.521	.450-.593 (14%)	77.07	31.19	Bluegill
646	361-930 (44%)	.003	.001-.005 (58%)	0.74	0.30	Carp
29757	26163-33352 (12%)	.188	.163-.214 (13%)	33.96	13.74	Channel catfish
611	400-822 (35%)	.003	.001-.005 (65%)	0.70	0.28	Flathead catfish
3031	2239-3822 (26%)	.020	.014-.026 (30%)	3.46	1.40	Freshwater drum
1796	1066-2526 (41%)	.017	.007-.026 (57%)	2.05	0.83	Green sunfish
780	89-1472 (89%)	.003	.000-.006 (109%)	0.89	0.36	Gizzard shad
69096	61258-76934 (11%)	.315	.280-.351 (11%)	78.86	31.91	Largemouth bass
4803	2629-6977 (45%)	.051	.026-.076 (50%)	5.48	2.22	Striped bass
1747	610-2884 (65%)	.007	.001-.014 (92%)	1.99	0.81	Threadfin shad
493	356-631 (28%)	.002	.001-.003 (46%)	0.56	0.23	Warmouth
6319	4516-8123 (29%)	.055	.028-.082 (50%)	7.21	2.92	White bass
85941	69184-102699 (19%)	.561	.415-.707 (26%)	98.09	39.70	White crappie
1179	778-1580 (34%)	.006	.003-.009 (47%)	1.35	0.54	Yellow bullhead
14202	10691-17712 (25%)	.134	.067-.202 (50%)	16.21	6.56	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
56265	49773-62758 (12%)	.323	.269-.376 (17%)	64.22	0.188	All species
80	40-120 (50%)	.000	.000-.001 (80%)	0.09	0.085	Bluegill x Green sun
6	0-14 (127%)	.000	.000-.000 (105%)	0.01	0.169	Black bullhead
1096	744-1448 (32%)	.007	.001-.013 (79%)	1.25	0.114	Black crappie
3337	1633-5042 (51%)	.032	.002-.061 (94%)	3.81	0.049	Bluegill
455	187-723 (59%)	.002	.001-.004 (73%)	0.52	0.704	Carp
3541	3040-4041 (14%)	.021	.017-.024 (16%)	4.04	0.119	Channel catfish
519	311-727 (40%)	.002	.001-.003 (65%)	0.59	0.850	Flathead catfish
574	437-711 (24%)	.004	.002-.005 (52%)	0.66	0.189	Freshwater drum
46	27-65 (41%)	.001	.000-.001 (63%)	0.05	0.026	Green sunfish
25	1-49 (97%)	.000	.000-.000 (107%)	0.03	0.032	Gizzard shad
28600	24918-32281 (13%)	.112	.096-.128 (15%)	32.64	0.414	Largemouth bass
5485	2227-8743 (59%)	.060	.022-.098 (63%)	6.26	1.142	Striped bass
		****	NOT RECORDED	****		Threadfin shad
122	88-157 (28%)	.000	.000-.001 (40%)	0.14	0.248	Warmouth
1620	1108-2132 (32%)	.012	.006-.019 (54%)	1.85	0.256	White bass
9915	7348-12482 (26%)	.061	.046-.076 (24%)	11.32	0.115	White crappie
203	132-274 (35%)	.001	.001-.002 (57%)	0.23	0.172	Yellow bullhead
641	406-876 (37%)	.006	.002-.011 (63%)	0.73	0.045	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
124044	109730-138359 (12%)	.711	.593-.830 (17%)	57.30	0.415	All species
177	89-265 (50%)	.001	.000-.002 (80%)	0.08	0.187	Bluegill x Green sun
13	0-31 (127%)	.000	.000-.000 (105%)	0.01	0.372	Black bullhead
2416	1641-3191 (32%)	.016	.003-.028 (79%)	1.12	0.251	Black crappie
7358	3600-11115 (51%)	.070	.004-.135 (94%)	3.40	0.109	Bluegill
1002	412-1593 (59%)	.005	.001-.010 (73%)	0.46	1.553	Carp
7806	6702-8910 (14%)	.046	.038-.053 (16%)	3.61	0.262	Channel catfish
1145	687-1602 (40%)	.004	.001-.006 (65%)	0.53	1.873	Flathead catfish
1266	964-1568 (24%)	.008	.004-.012 (52%)	0.58	0.418	Freshwater drum
102	60-144 (41%)	.001	.000-.002 (63%)	0.05	0.057	Green sunfish
54	2-107 (97%)	.000	.000-.000 (107%)	0.03	0.070	Gizzard shad
63052	54935-71168 (13%)	.247	.211-.283 (15%)	29.12	0.913	Largemouth bass
12093	4910-19275 (59%)	.133	.048-.217 (63%)	5.59	2.518	Striped bass
		****	NOT RECORDED ****			Threadfin shad
269	194-345 (28%)	.001	.001-.001 (40%)	0.12	0.546	Warmouth
3572	2443-4700 (32%)	.027	.013-.042 (54%)	1.65	0.565	White bass
21859	16200-27518 (26%)	.135	.102-.168 (24%)	10.10	0.254	White crappie
448	292-603 (35%)	.003	.001-.004 (57%)	0.21	0.380	Yellow bullhead
1413	895-1930 (37%)	.014	.005-.023 (63%)	0.65	0.099	Yellow bass

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	5.5	5.3-5.6	(3%)	0.2	19.5	1248
SHORE	2.4	2.1-2.8	(15%)	0.7	9.2	70
BOAT & SHORE	5.3	5.2-5.5	(3%)	0.2	19.5	1318
MILES TRAVELED	21.9	21.2-22.6	(3%)	1	265	3203
SUCCESS RATING (1-10)	4.7	4.6-4.8	(2%)	1	10	3175

*859 samples were from split interviews of completed trips.
32.6% of all 4046 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 73 out of 4046 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	1110	1870	219	48	21		1	1		5
SHORE INTERVIEWS	204	243	157	105	34	12	2	10	1	2

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

1074 (26.5%)	ANY	All species
2 (0.0%)	BGH	Bluegill x Green sunfish hybrid
18 (0.4%)	BLG	Bluegill
9 (0.2%)	BSS	Black bass spp.
20 (0.5%)	CAP	Carp
406 (10.0%)	CCF	Channel catfish
437 (10.8%)	CRP	Crappie spp.
9 (0.2%)	FCF	Flathead catfish
1706 (42.2%)	LMB	Largemouth bass
99 (2.4%)	STB	Striped bass
21 (0.5%)	WHB	White bass
243 (6.0%)	WHC	White crappie

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bluegill x Green sunfish hybrid																
HARVEST	2372	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2368	1	4	-	-	-	-	3	4	-	-	-	-	-	-	-
Black bullhead																
HARVEST	2380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2376	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	2281	46	36	13	-	2	-	2	-	-	-	-	-	-	-	-
RELEASE	2250	36	29	30	15	6	1	-	4	-	3	3	-	-	-	3
Bluegill																
HARVEST	2344	16	-	1	1	3	8	-	2	-	-	-	1	2	-	2
RELEASE	2056	54	56	58	28	30	25	13	18	4	12	2	2	6	-	16
Carp																
HARVEST	2377	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2374	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	2319	42	8	2	3	-	1	1	-	2	-	-	-	-	-	2
RELEASE	2217	106	24	17	8	3	-	-	-	-	2	-	-	-	-	3
Flathead catfish																
HARVEST	2378	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2375	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Freshwater drum																
HARVEST	2378	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2319	50	8	1	2	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	2378	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-
RELEASE	2371	-	1	6	2	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	2288	81	9	-	-	2	-	-	-	-	-	-	-	-	-	-
RELEASE	685	408	275	210	172	120	98	101	63	52	32	31	34	17	7	75
Striped bass																
HARVEST	2346	17	5	12	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2316	43	4	3	6	4	2	-	2	-	-	-	-	-	-	-
Warmouth																
HARVEST	2380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2336	38	4	2	-	-	-	-	-	-	-	-	-	-	-	-

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
White bass																
HARVEST	2342	21	4	6	1	2	2	-	-	2	-	-	-	-	-	-
RELEASE	2203	105	43	7	5	6	4	-	2	-	2	1	-	-	-	2
White crappie																
HARVEST	2098	62	51	33	32	35	15	14	12	14	10	1	-	2	-	1
RELEASE	1972	71	51	35	18	30	10	5	43	10	22	5	9	14	3	82
Yellow bullhead																
HARVEST	2380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2367	8	-	-	3	2	-	-	-	-	-	-	-	-	-	-
Yellow bass																
HARVEST	2373	4	2	1	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	2205	56	59	36	9	6	2	2	1	-	-	-	1	-	1	2

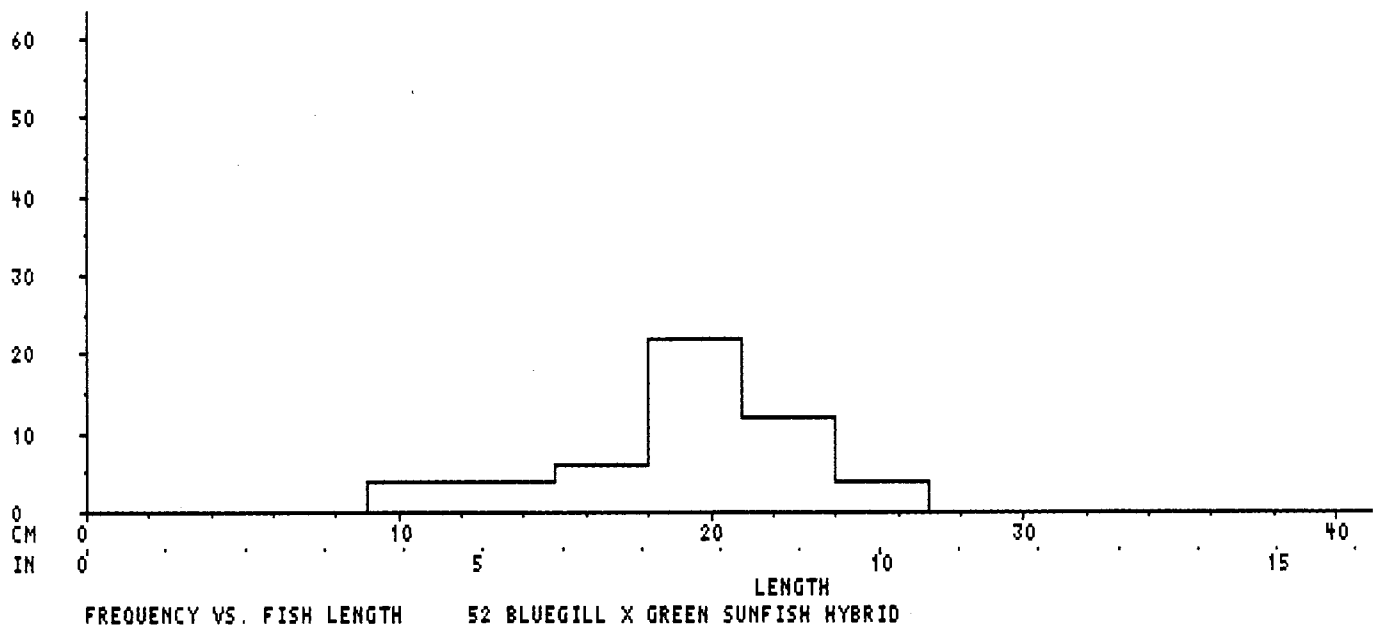


Figure 1. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of sunfish hybrid harvested by all anglers.

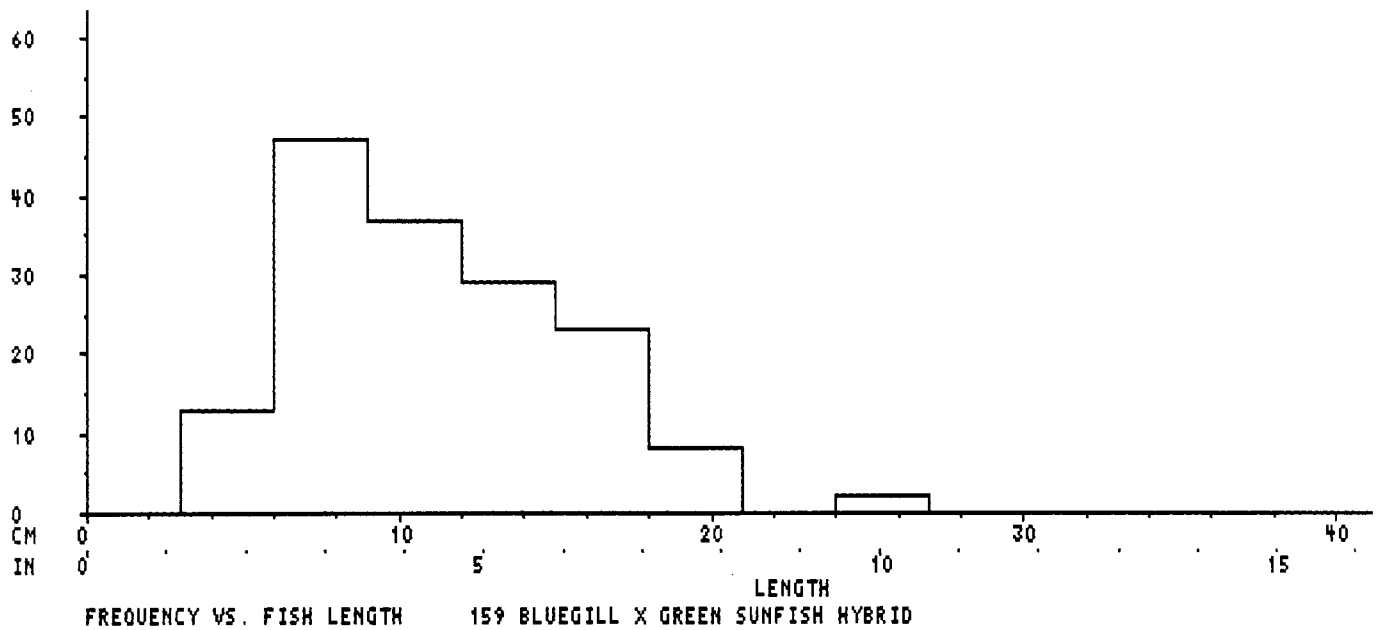


Figure 2. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of sunfish hybrid released by all anglers.

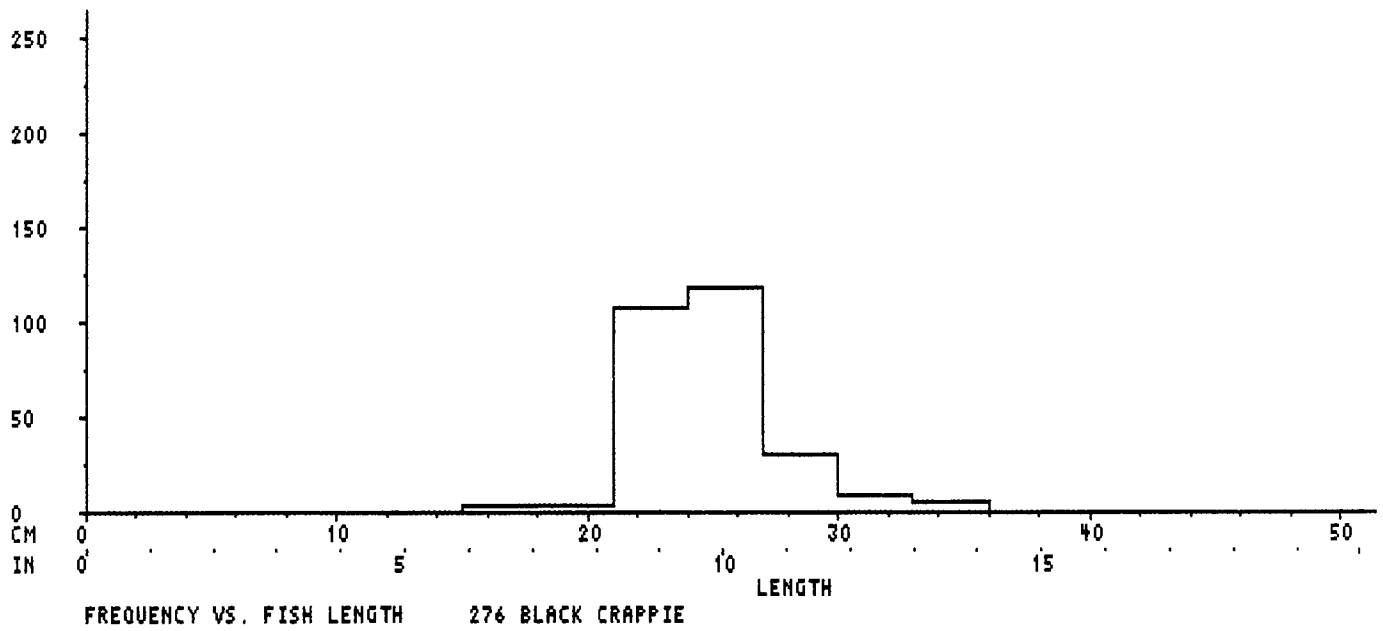


Figure 3. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of black crappie harvested by all anglers.

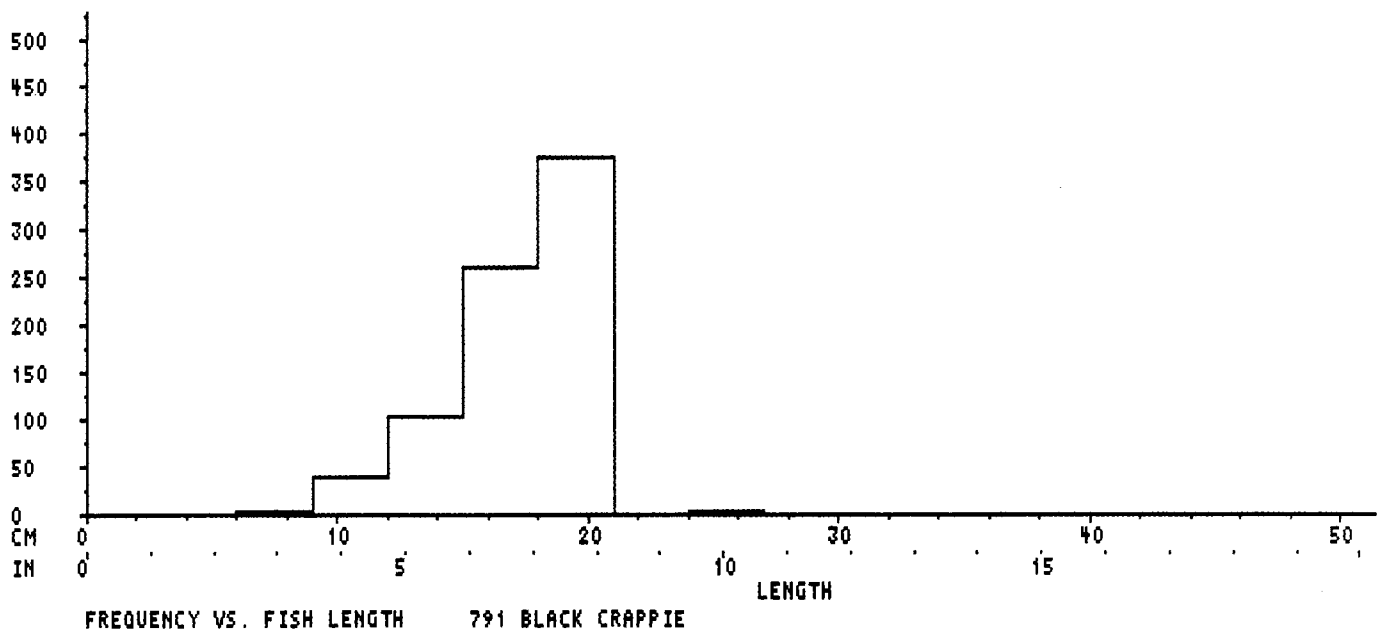


Figure 4. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of black crappie released by all anglers. Note the difference in scale from Figure 3.

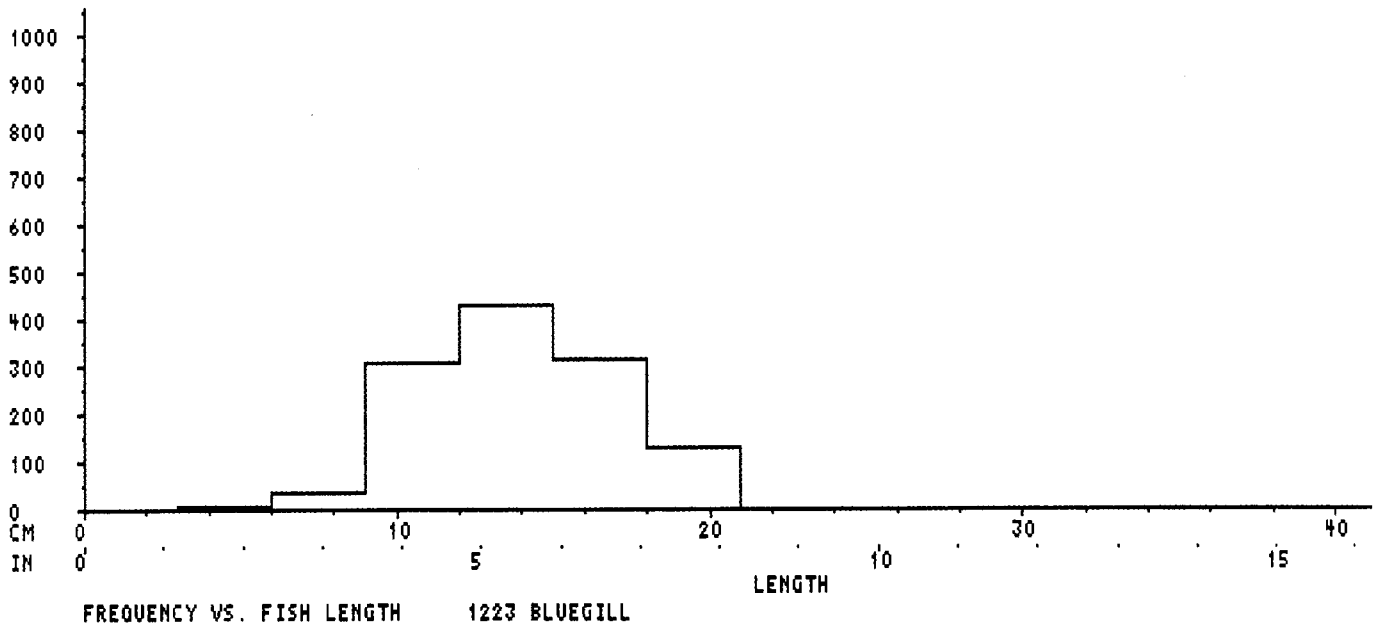


Figure 5. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of bluegill harvested by all anglers.

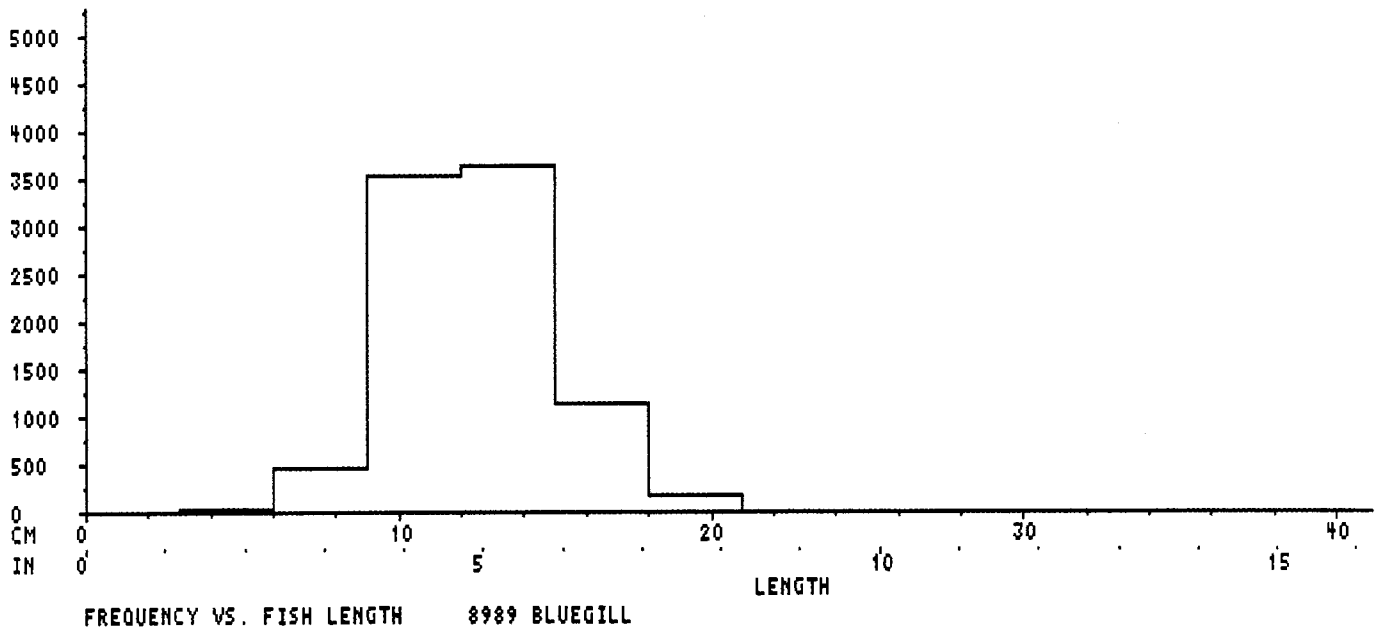


Figure 6. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 5.

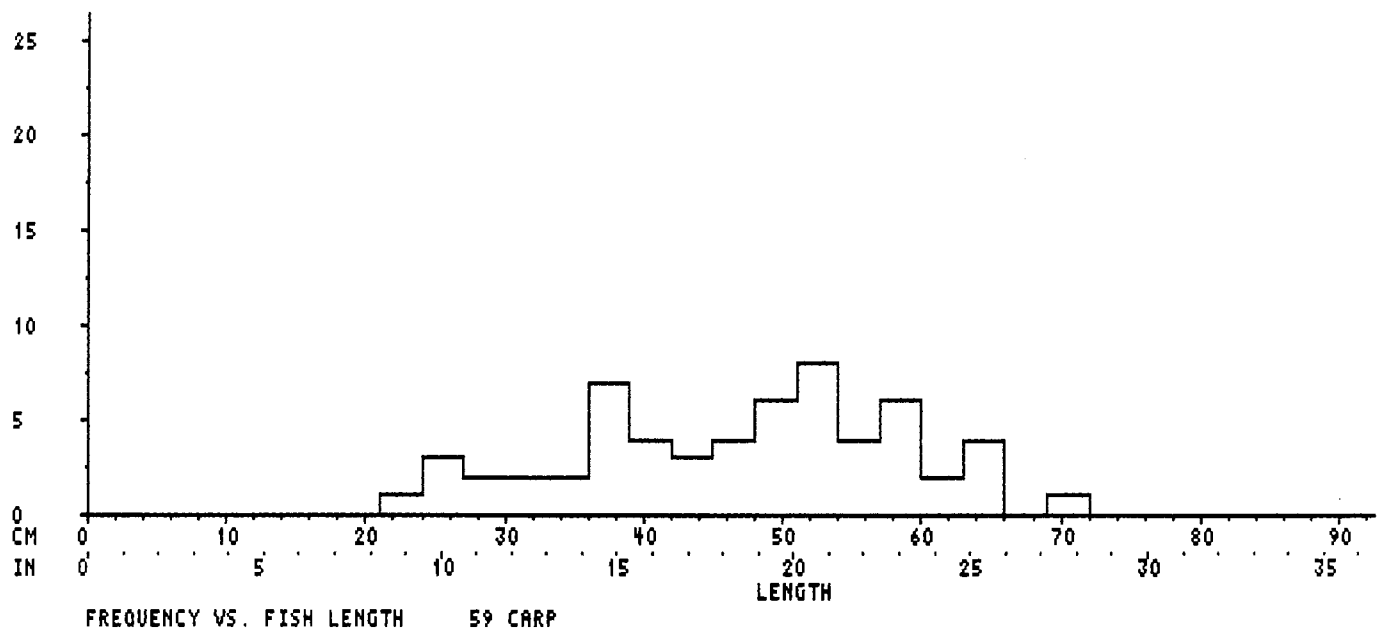


Figure 7. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of carp harvested by all anglers.

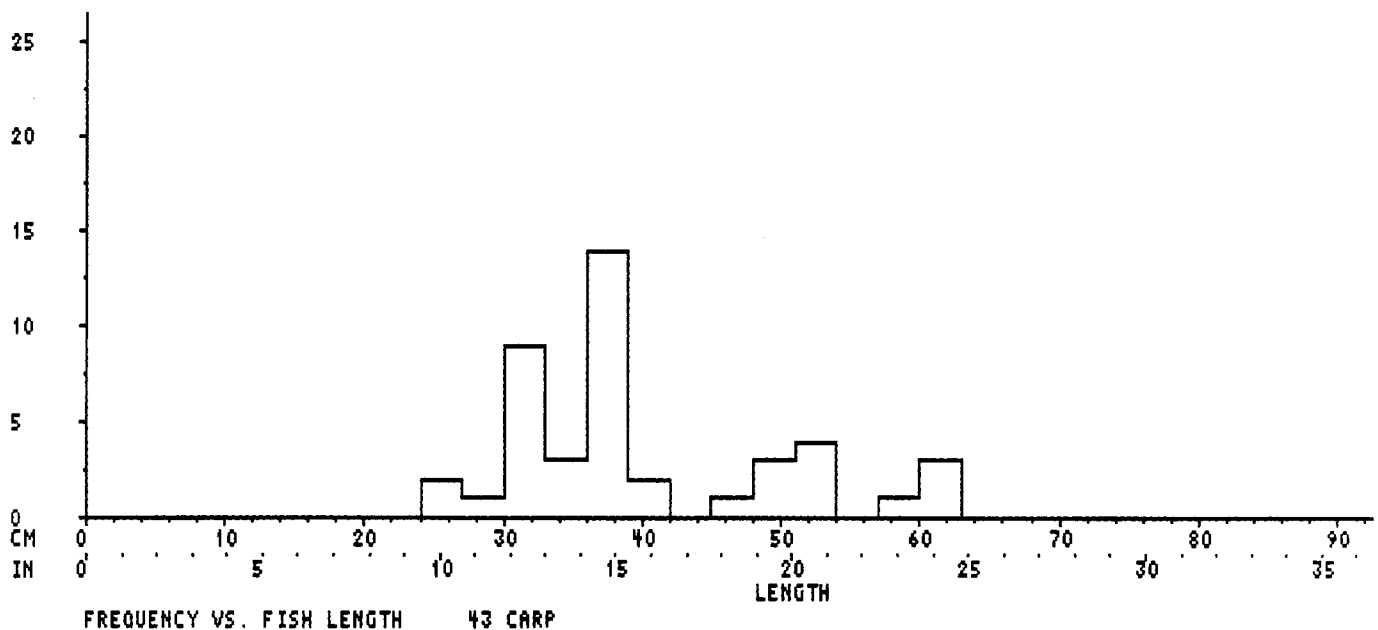


Figure 8. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of carp released by all anglers.

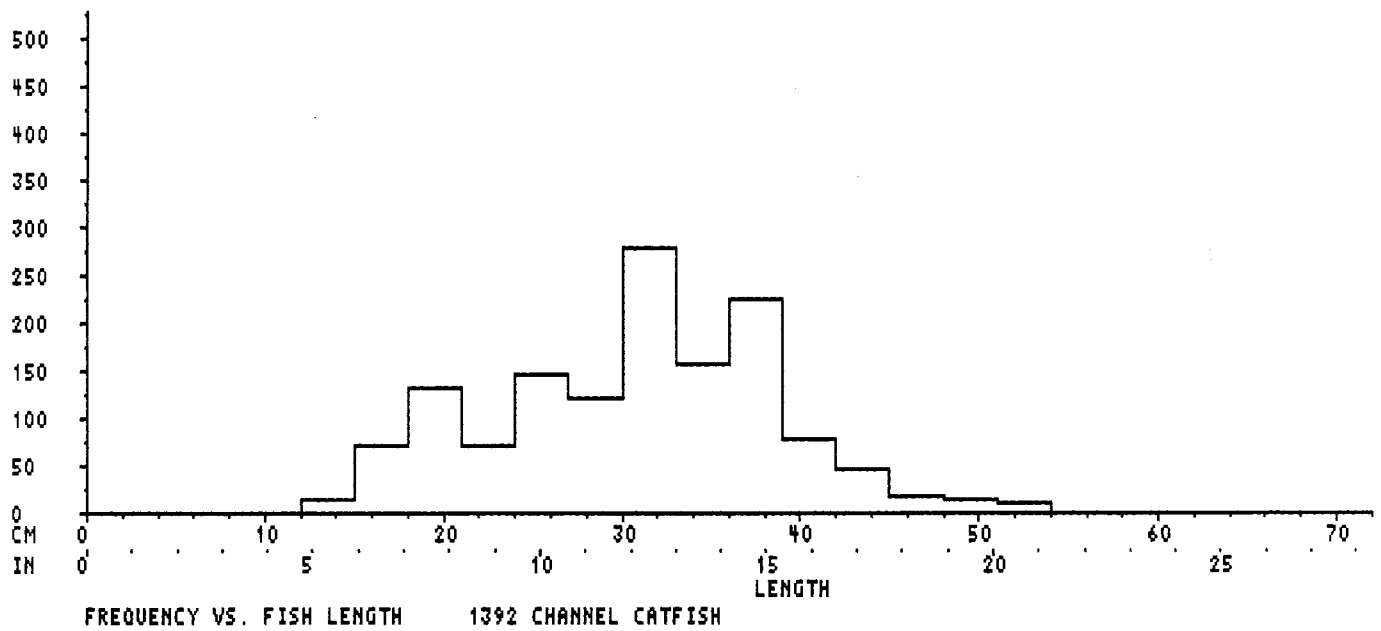


Figure 9. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of channel catfish harvested by all anglers.

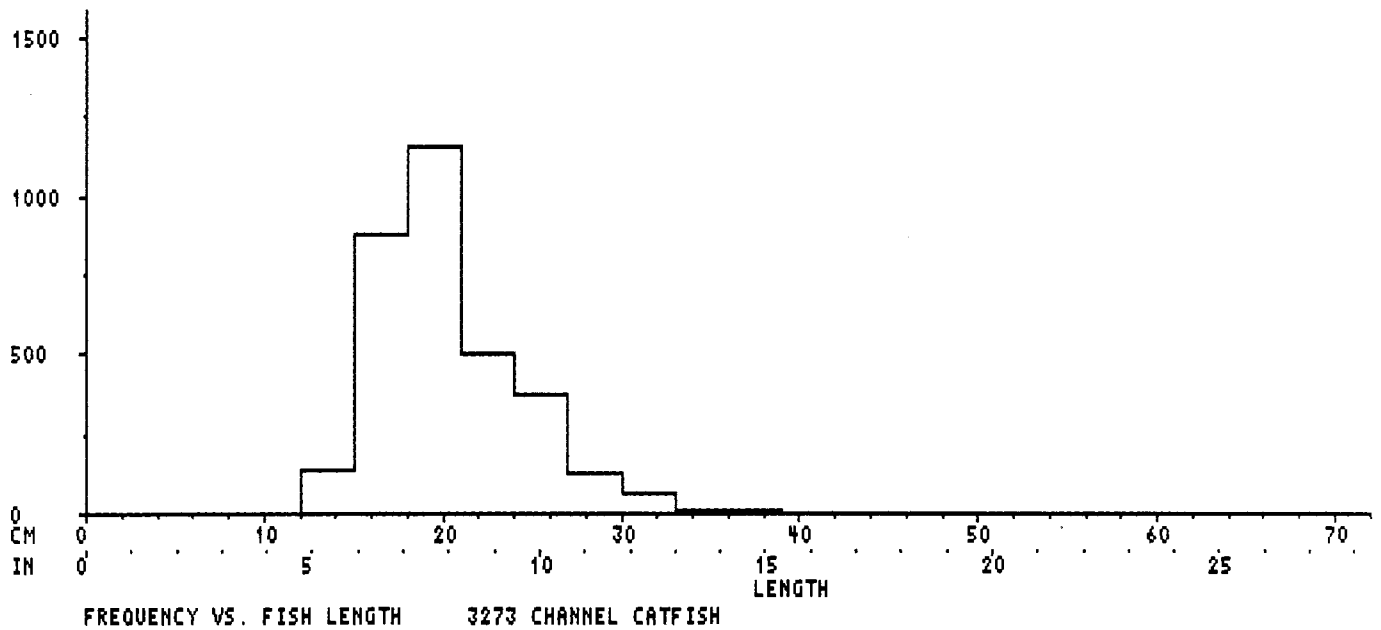


Figure 10. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of channel catfish released by all anglers. Note the difference in scale from Figure 9.

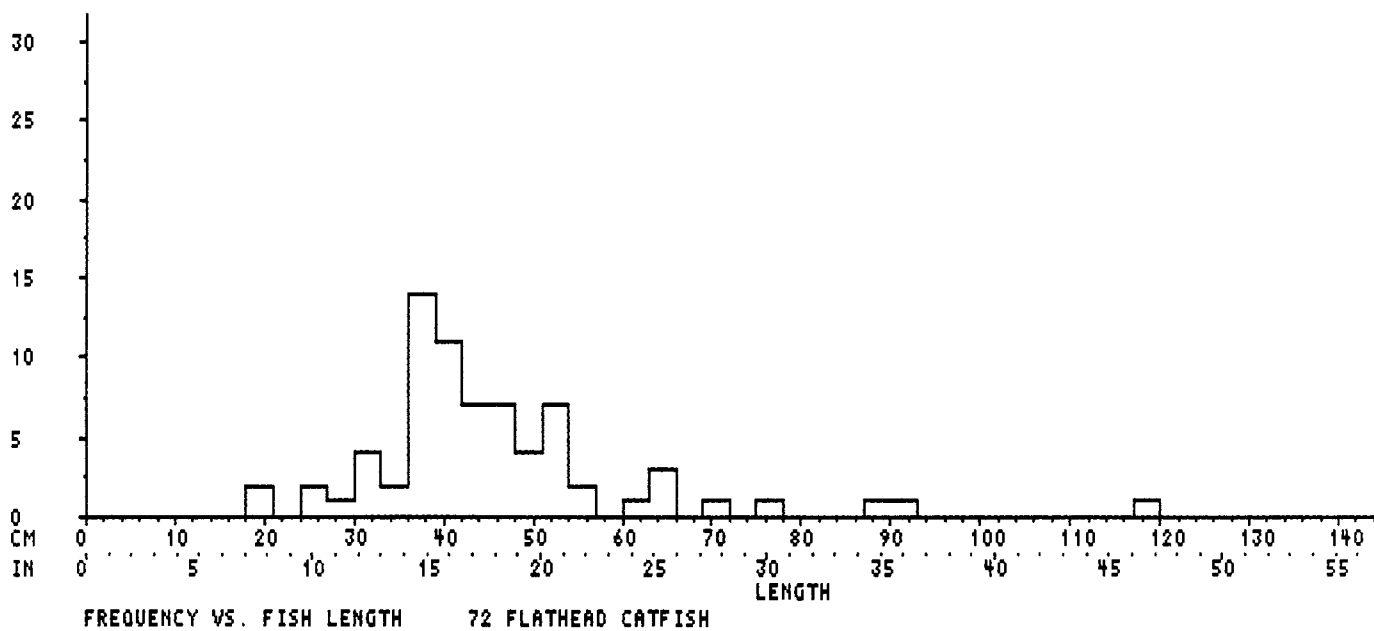


Figure 11. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of flathead catfish harvested by all anglers.

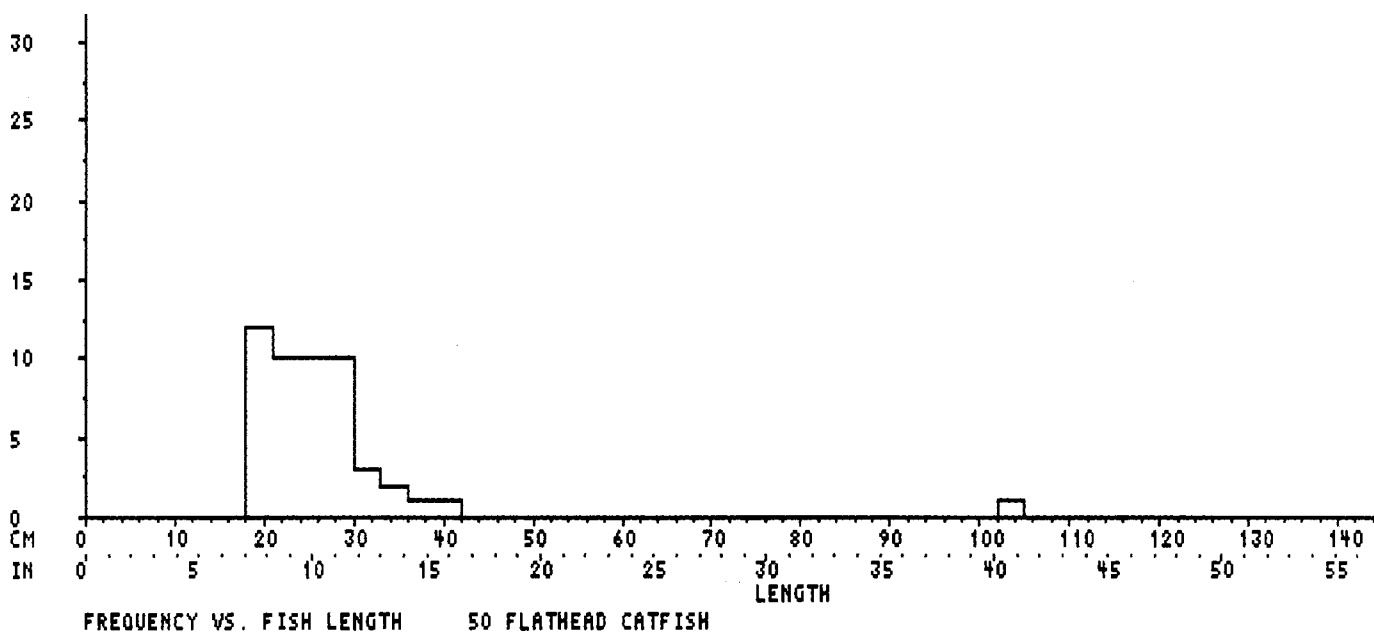


Figure 12. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of flathead catfish released by all anglers.

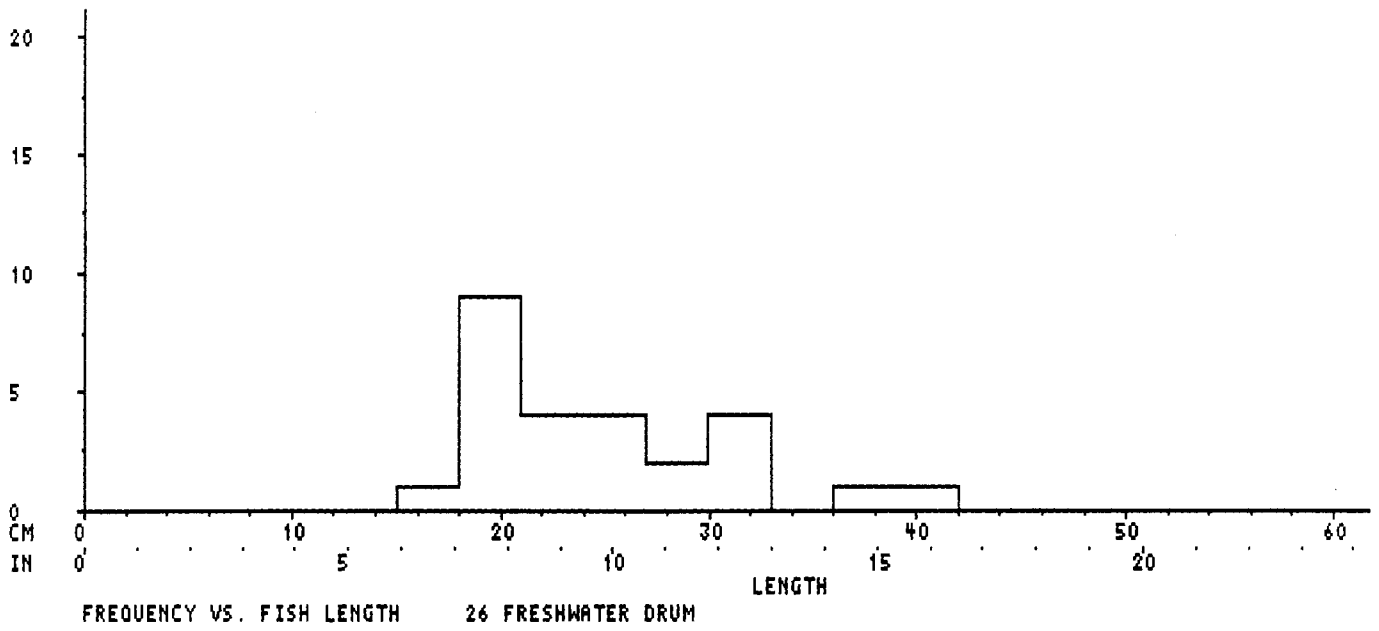


Figure 13. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of freshwater drum harvested by all anglers.

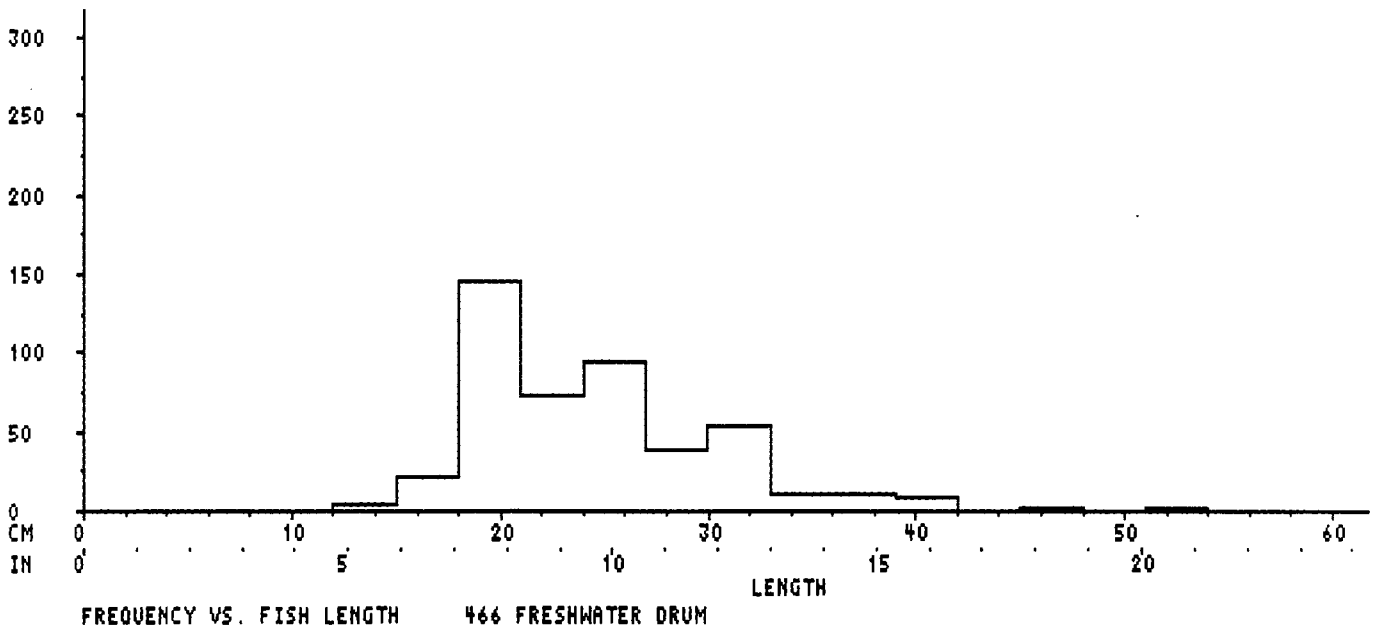


Figure 14. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of freshwater drum released by all anglers. Note the difference in scale from Figure 13.

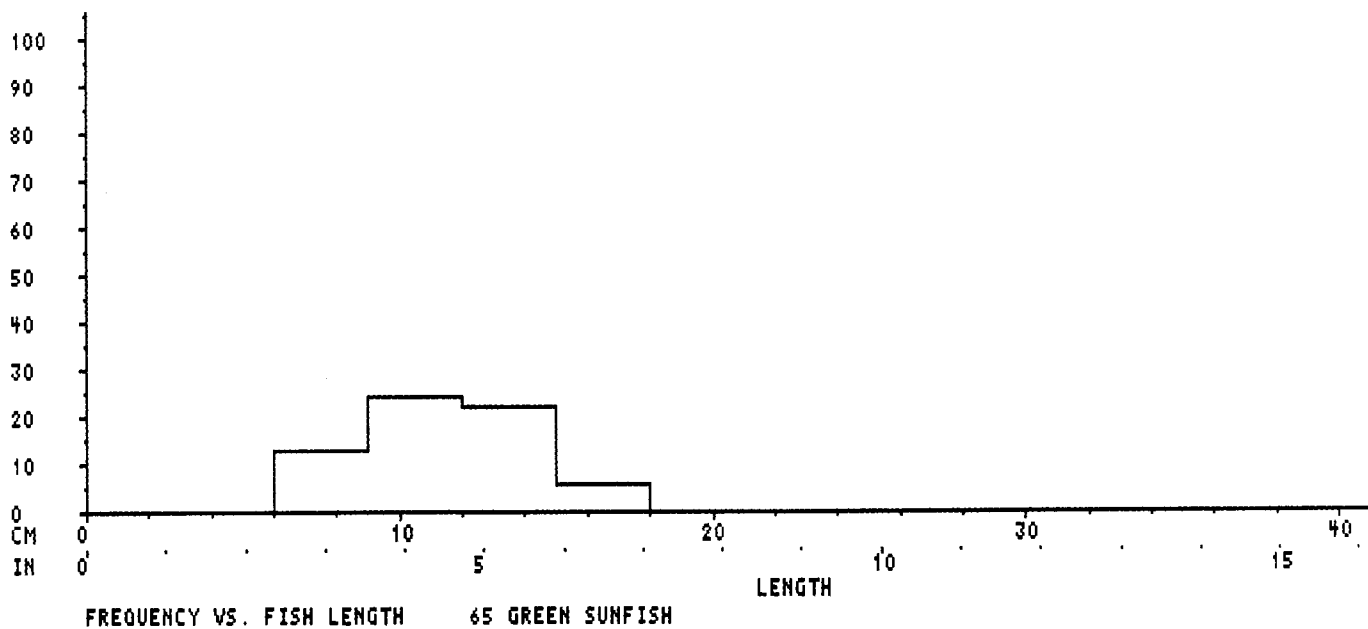


Figure 15. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of green sunfish harvested by all anglers.

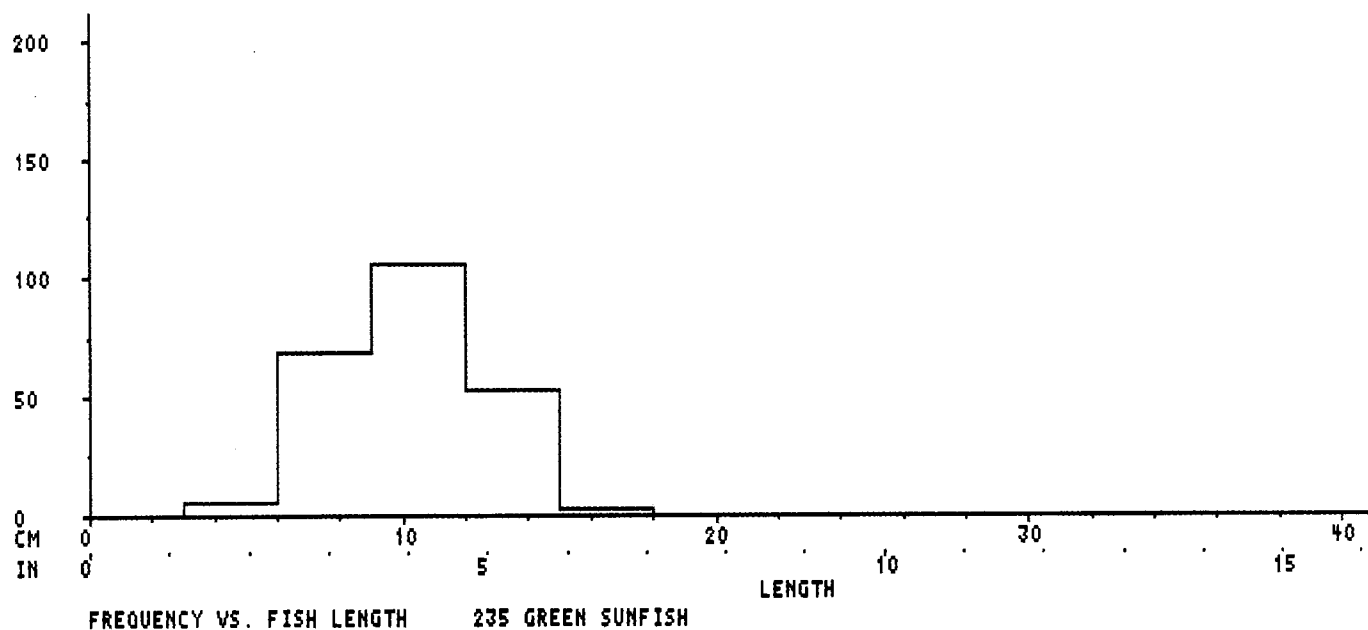


Figure 16. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of green sunfish released by all anglers. Note the difference in scale from Figure 15.

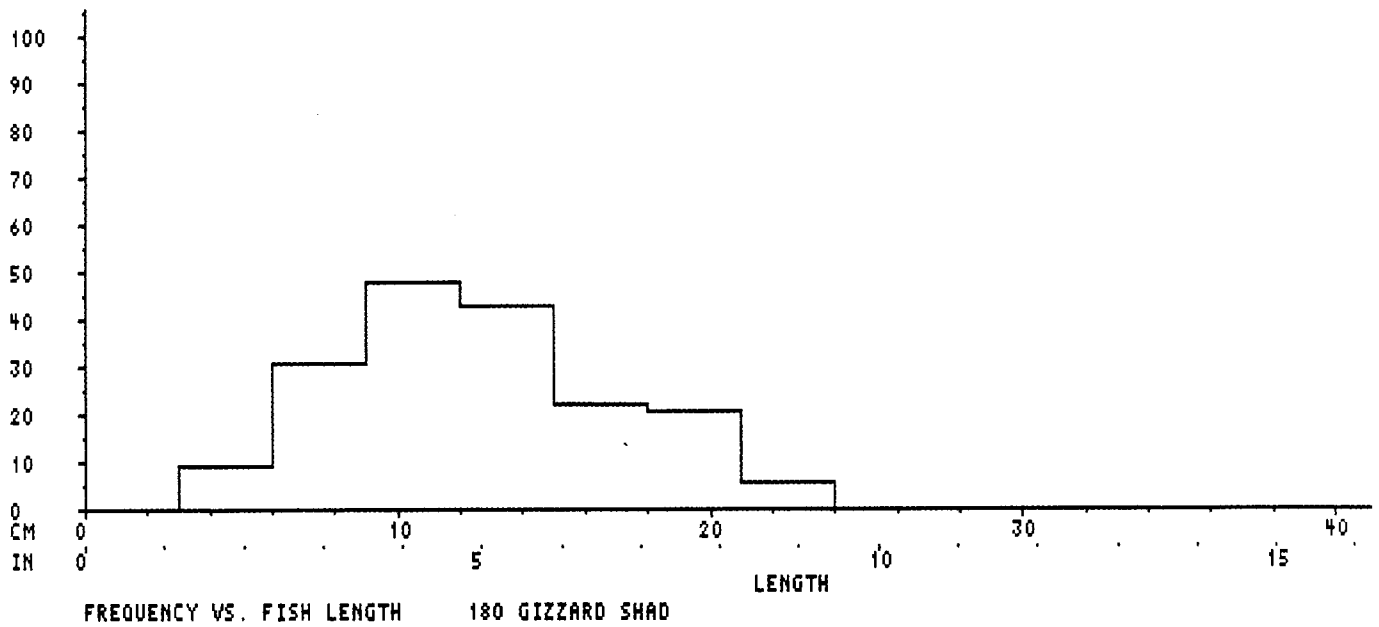


Figure 17. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of gizzard shad harvested by all anglers.

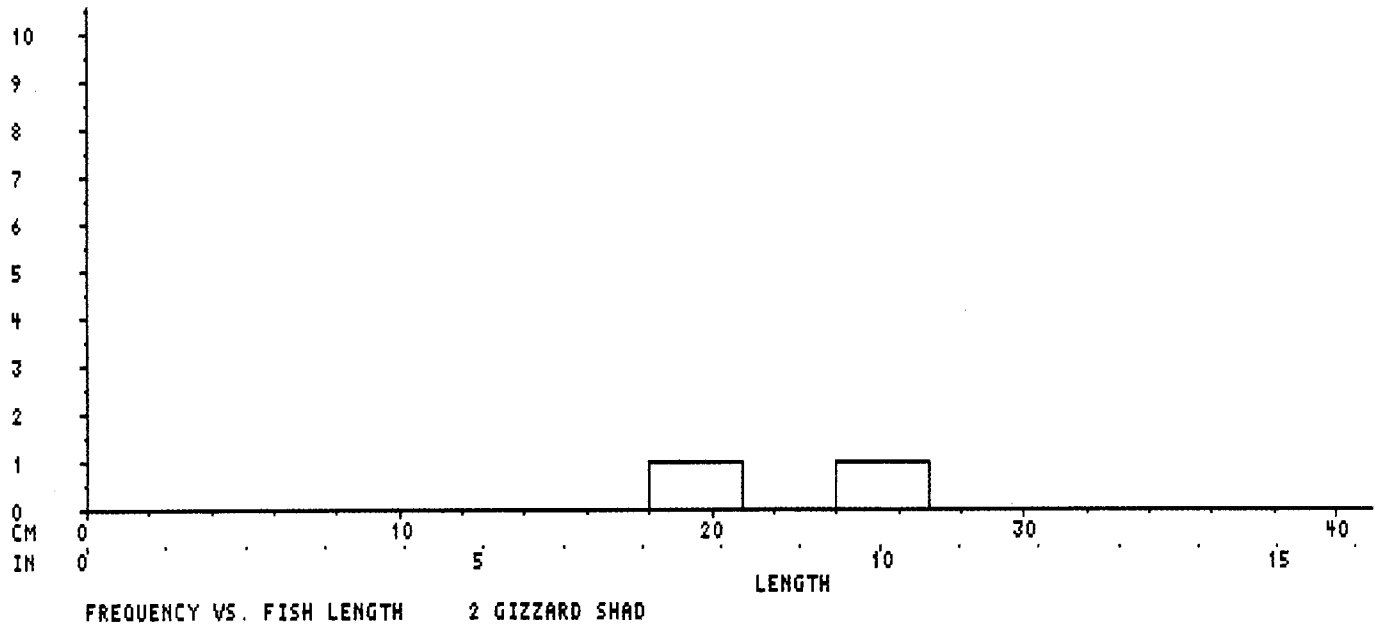


Figure 18. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of gizzard shad released by all anglers. Note the difference in scale from Figure 17.

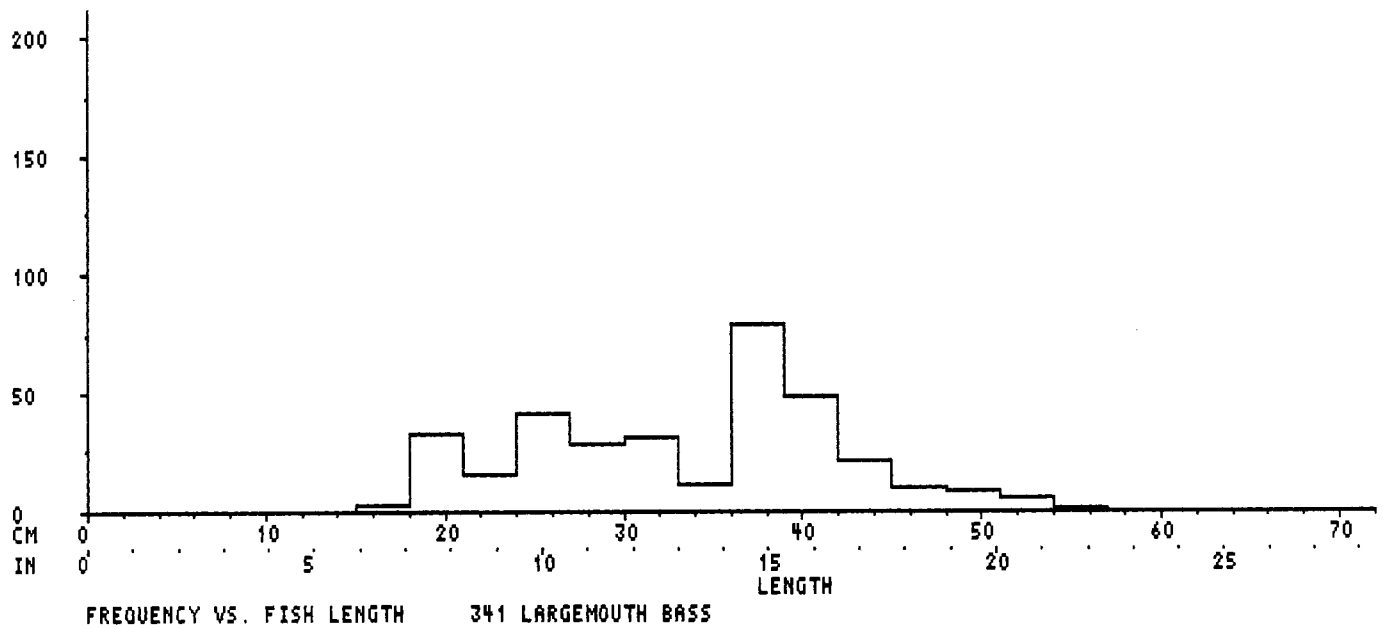


Figure 19. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of largemouth bass harvested by all anglers.

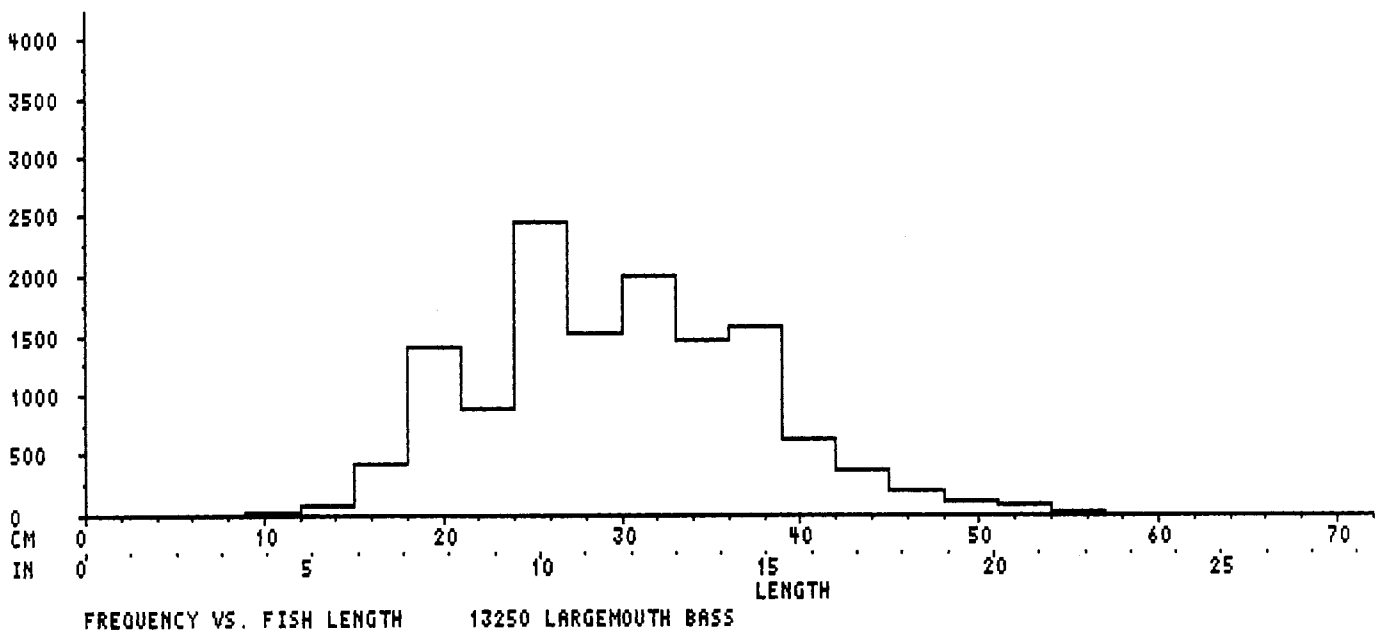


Figure 20. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 19.

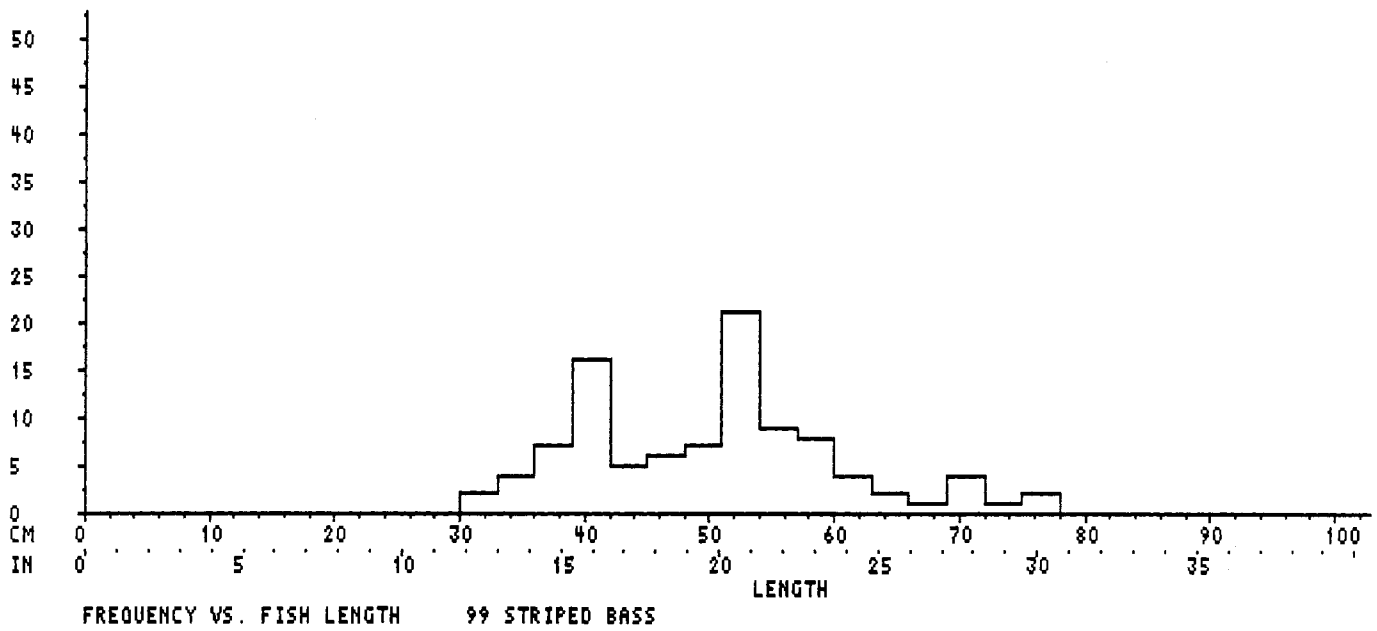


Figure 21. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of striped bass harvested by all anglers.

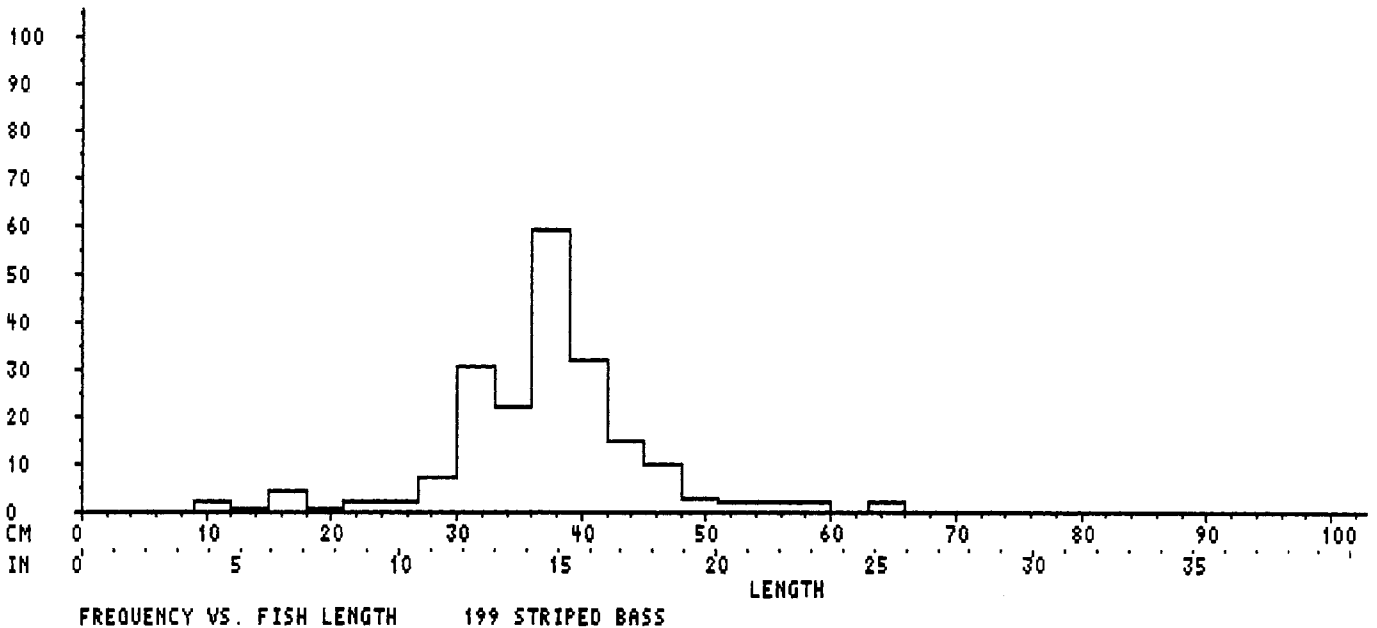


Figure 22. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of striped bass released by all anglers. Note the difference in scale from Figure 21.

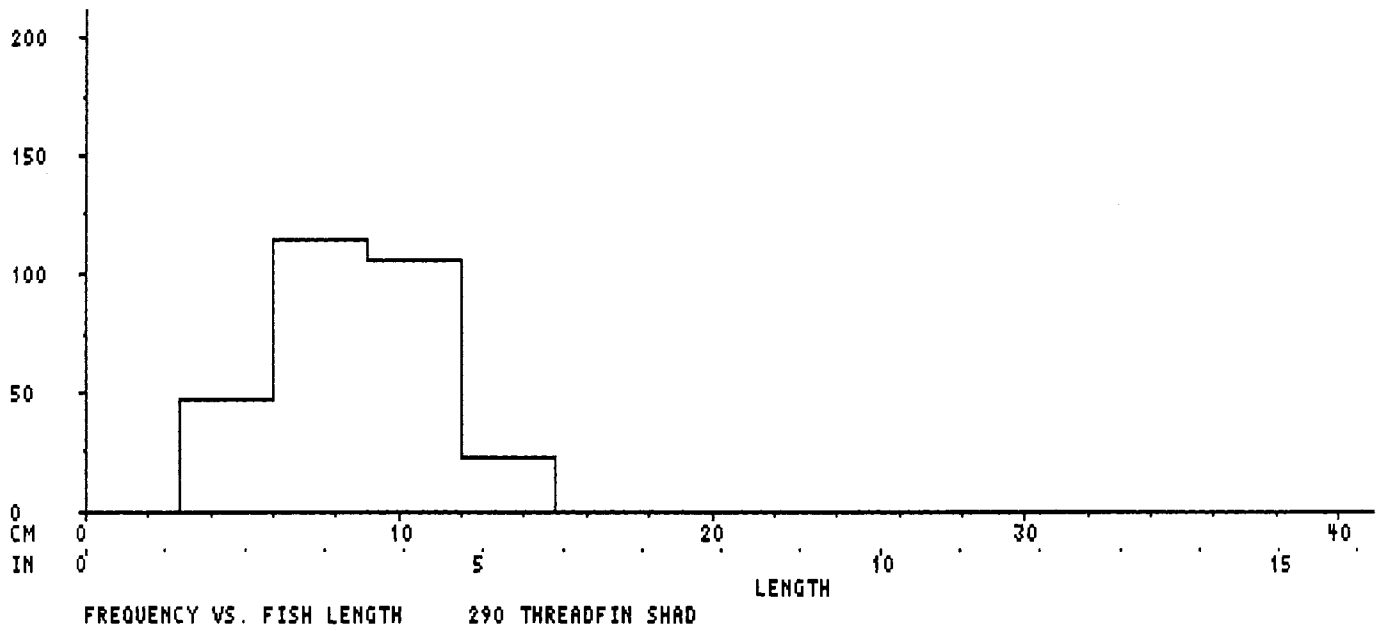


Figure 23. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of threadfin shad harvested by all anglers.

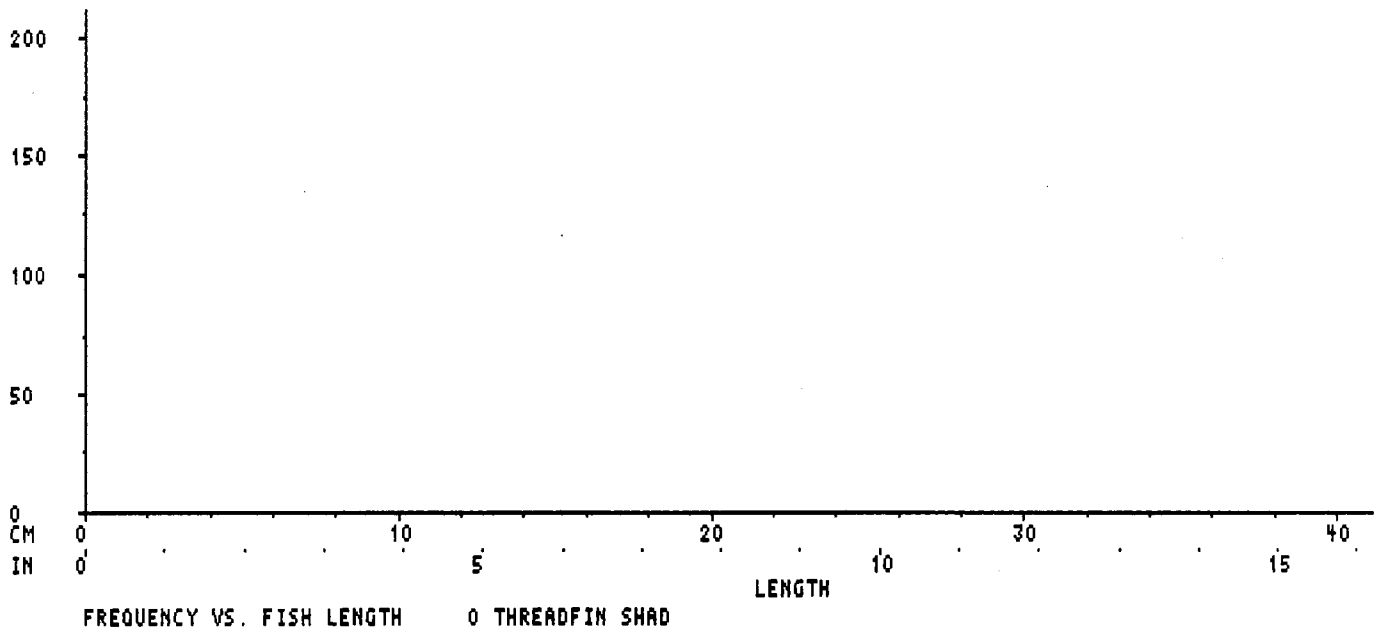


Figure 24. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of threadfin shad released by all anglers.

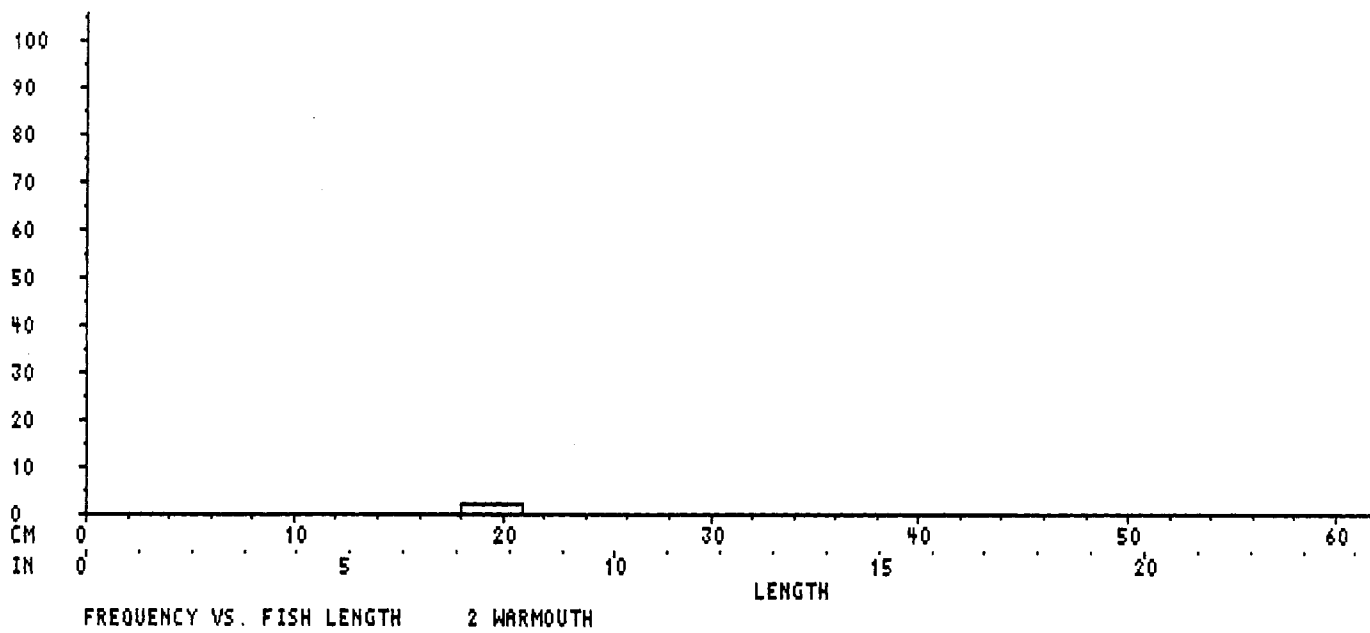


Figure 25. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of warmouth harvested by all anglers.

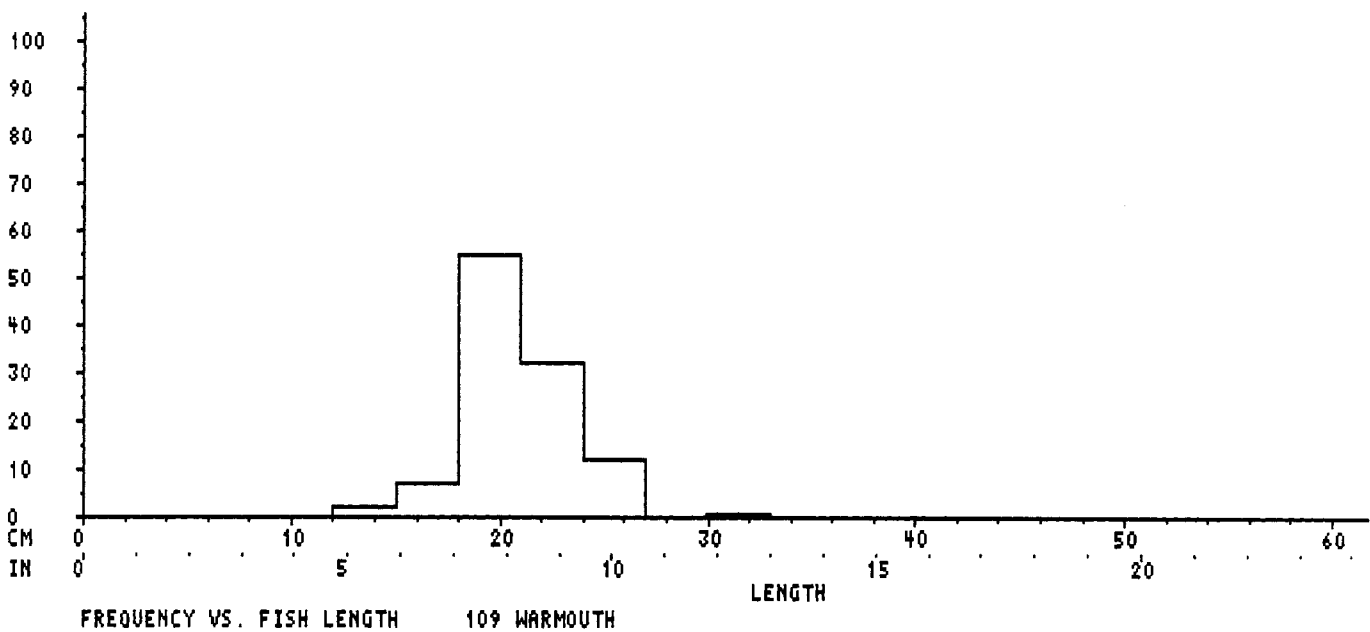


Figure 26. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of warmouth released by all anglers.

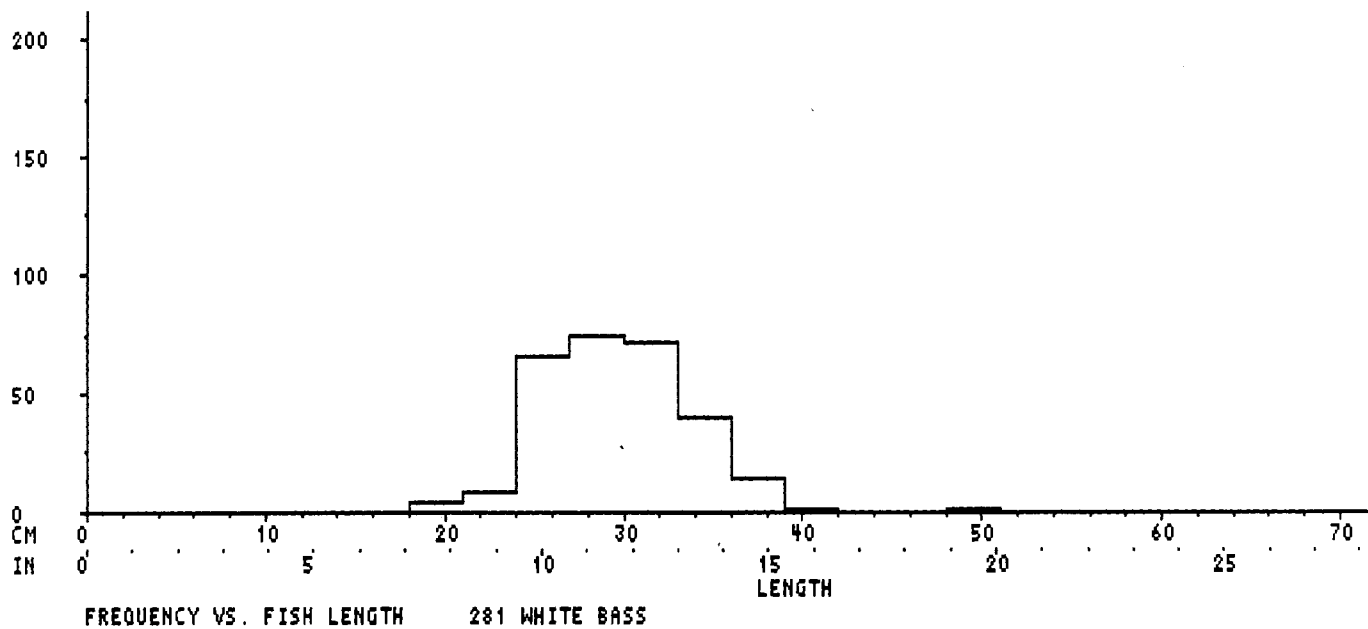


Figure 27. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of white bass harvested by all anglers.

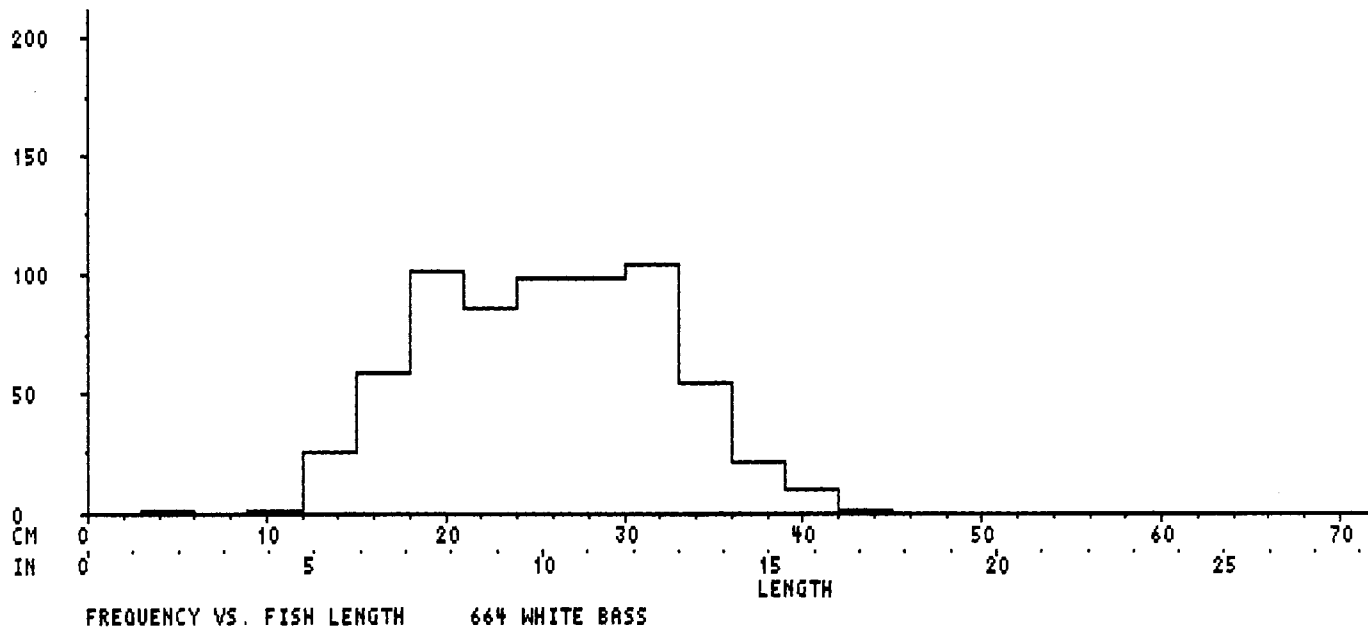


Figure 28. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of white bass released by all anglers.

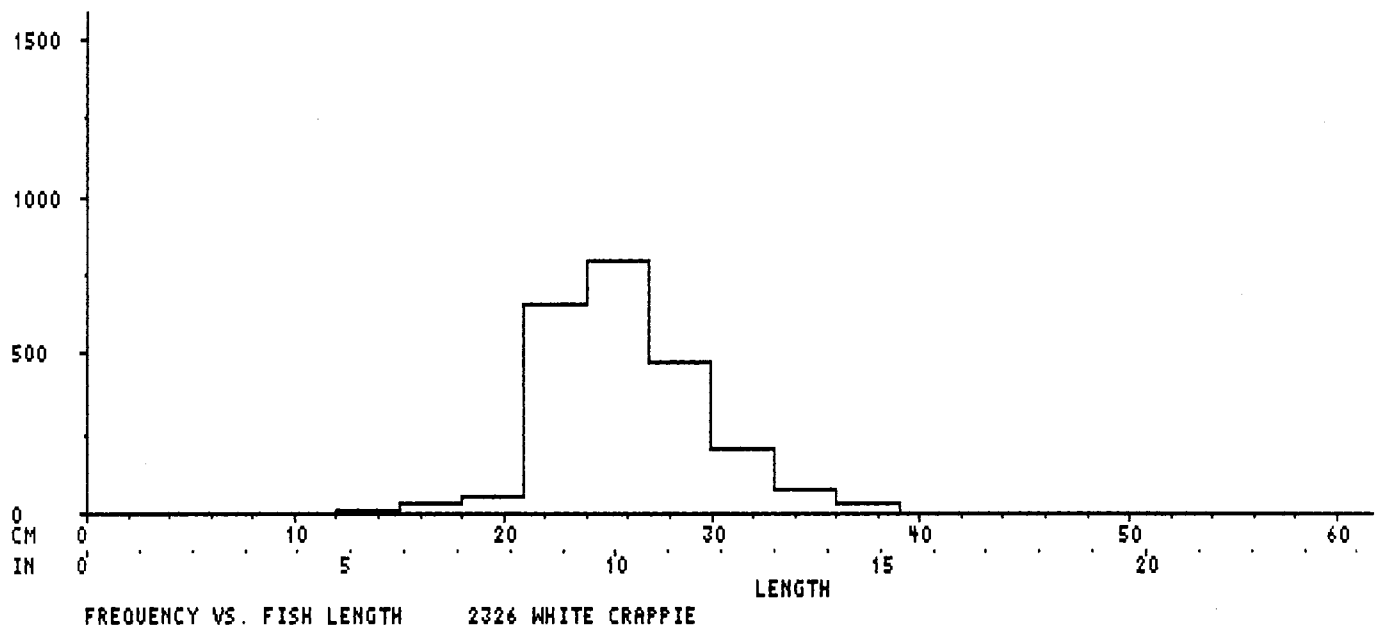


Figure 29. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of white crappie harvested by all anglers.

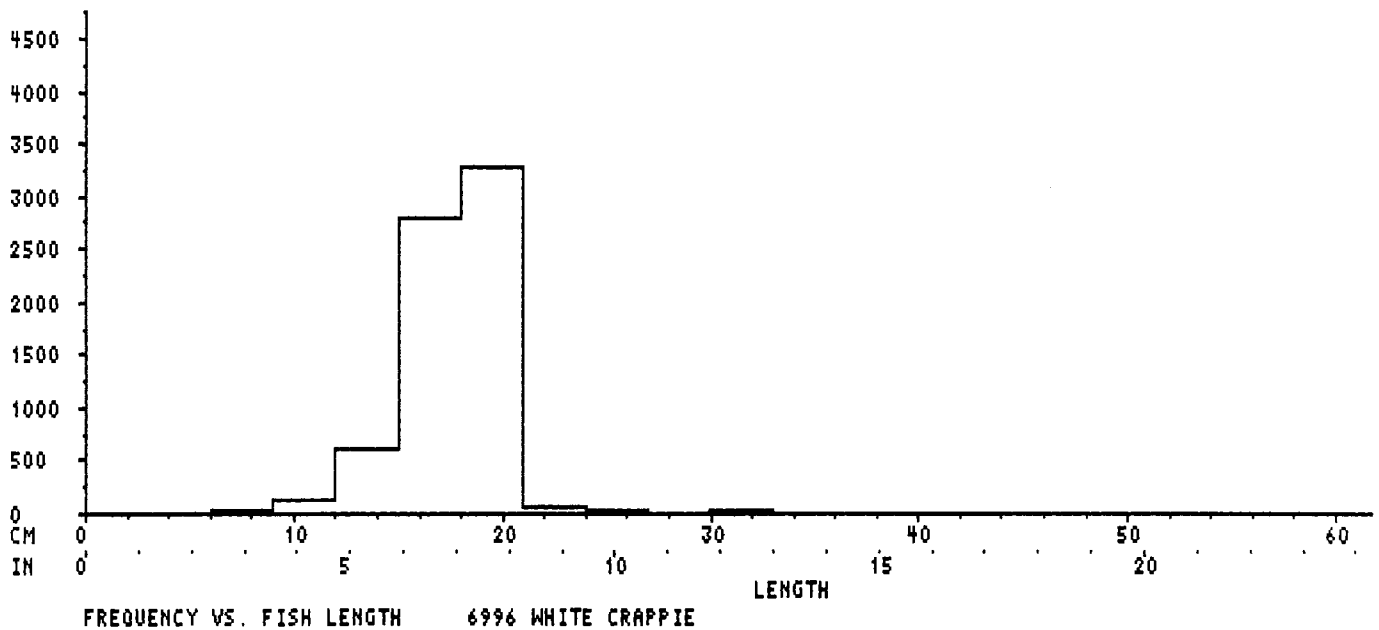


Figure 30. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 29.

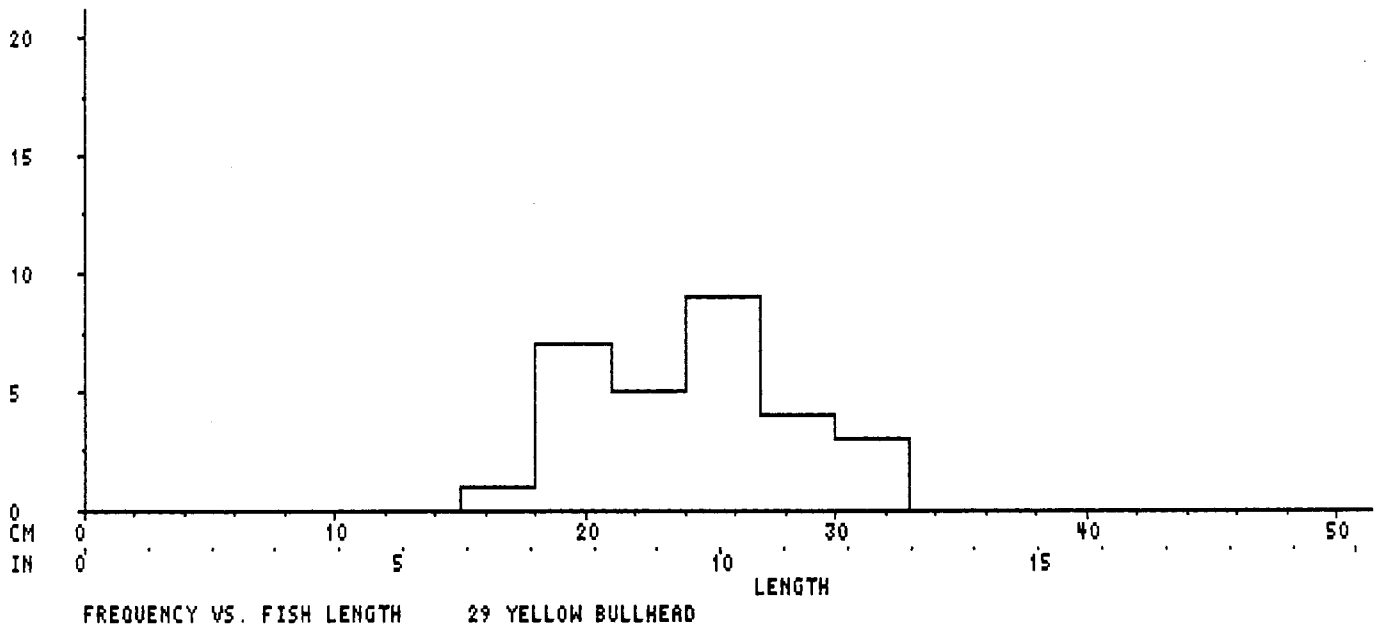


Figure 31. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of yellow bullhead harvested by all anglers.

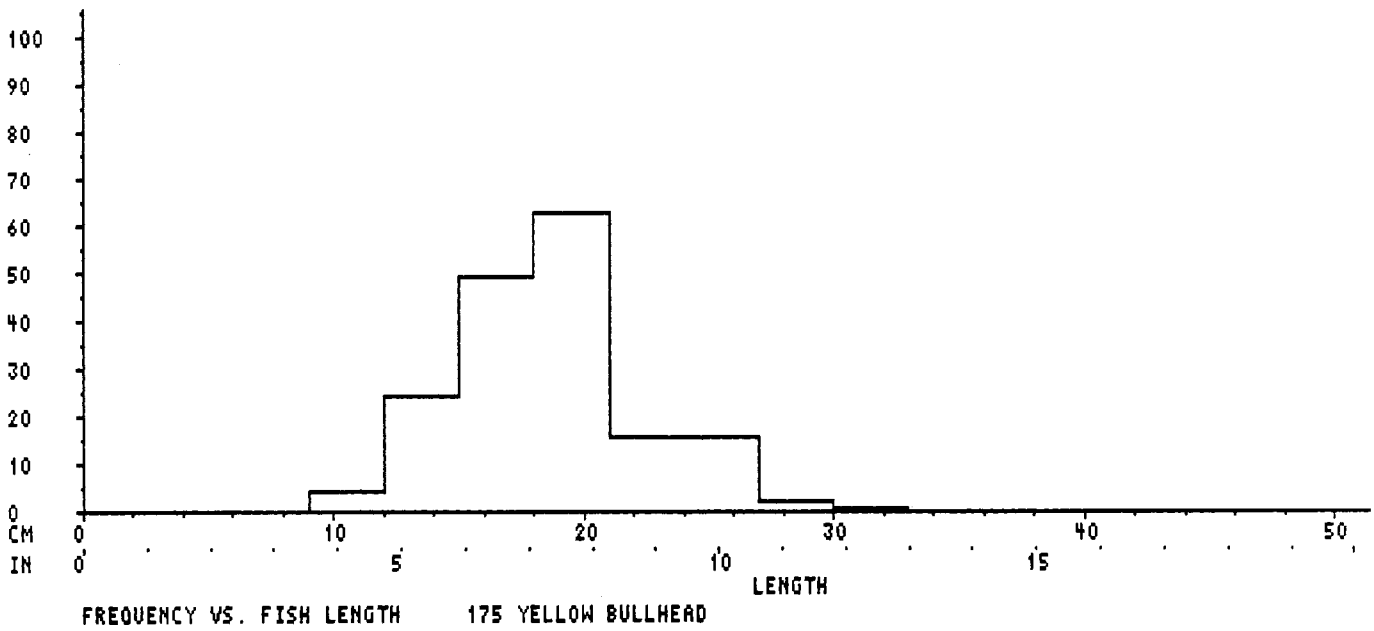


Figure 32. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of yellow bullhead released by all anglers. Note the difference in scale from Figure 31.

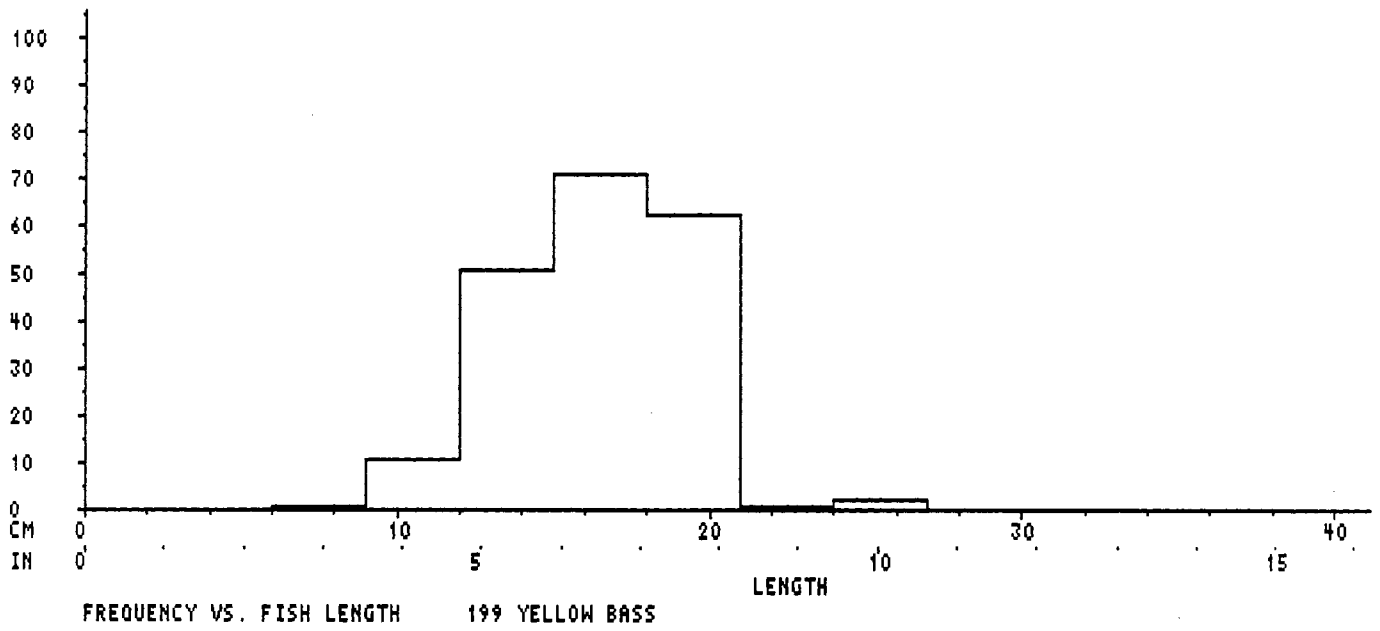


Figure 33. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of yellow bass harvested by all anglers.

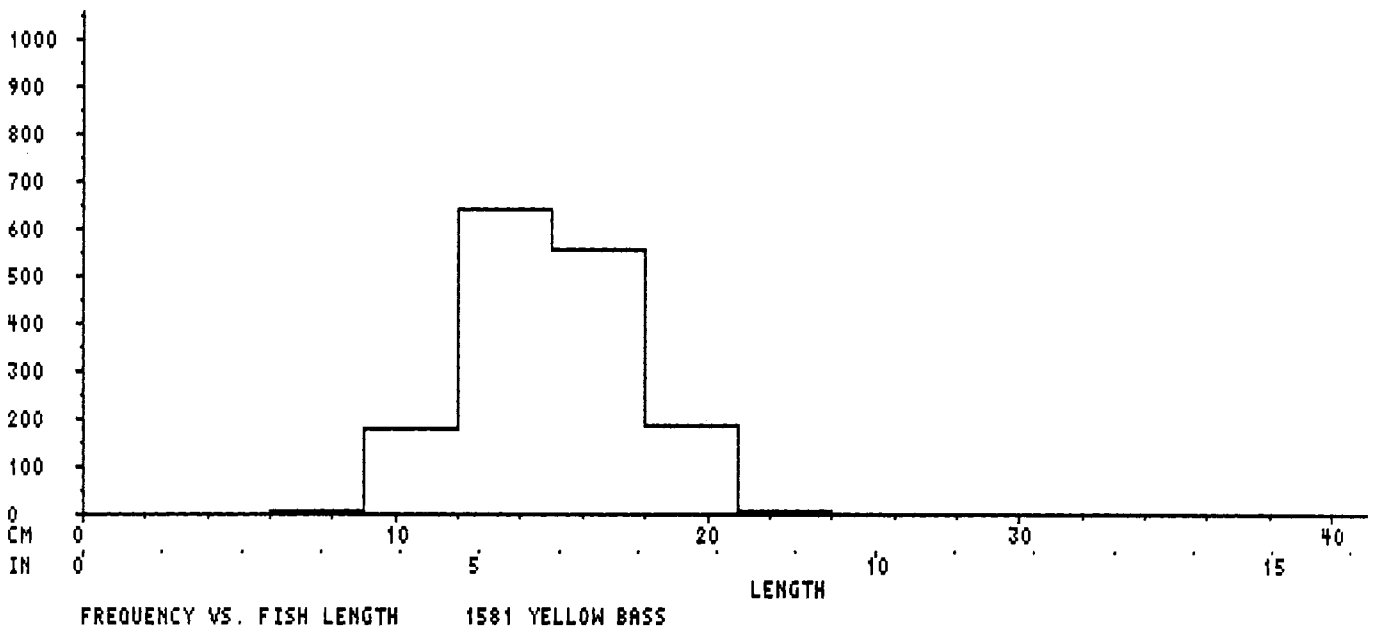


Figure 34. Lake Sangchris day creel 03/15/2000-02/15/2001. Length-frequency histogram of yellow bass released by all anglers. Note the difference in scale from Figure 33.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 SILVER LAKE
 65 ACRES
 REGION 2, DISTRICT 6

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 04/01/2000 through 10/31/2000
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Day periods (morning, midday, and afternoon) stratified.

SAMPLING RATIO: 290/642 = 45.2%

NUMBER OF INTERVIEWS: 3388

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	4509	3636-5382 (19%)	69	56-83 (19%)	15%
	HOLIDAY	6507	5601-7412 (14%)	100	86-114 (14%)	31%
	TOTAL	11015	9758-12273 (11%)	169	150-189 (11%)	24%
SHORE	WEEKDAY	15231	13238-17224 (13%)	234	204-265 (13%)	15%
	HOLIDAY	17346	15139-19554 (13%)	267	233-301 (13%)	26%
	TOTAL	32578	29603-35552 (9%)	501	455-547 (9%)	21%
BOAT & SHORE	WEEKDAY	19740	17564-21916 (11%)	304	270-337 (11%)	15%
	HOLIDAY	23853	21467-26239 (10%)	367	330-404 (10%)	27%
	TOTAL	43593	40364-46822 (7%)	671	621-720 (7%)	22%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
13577	11283-15870	(17%)	.347	.264-.430 (24%)	516.12	208.87	All species
8	0-43	(430%)	.000	.000-.000 (318%)	0.31	0.13	Bluegill x Green sun
310	53-568	(83%)	.006	.002-.010 (72%)	11.79	4.77	Black crappie
9390	7348-11432	(22%)	.253	.182-.324 (28%)	356.97	144.46	Bluegill
			****	NOT RECORDED	****		Carp
57	20-94	(65%)	.002	.000-.005 (118%)	2.16	0.87	Channel catfish
67	7-128	(90%)	.001	.000-.001 (88%)	2.55	1.03	Green sunfish
848	624-1073	(26%)	.029	.019-.038 (33%)	32.25	13.05	Largemouth bass
			****	NOT RECORDED	****		Northern pike
2762	1856-3669	(33%)	.043	.033-.054 (24%)	105.01	42.50	Rainbow trout
			****	NOT RECORDED	****		Smallmouth bass
6	0-19	(220%)	.000	.000-.000 (218%)	0.22	0.09	Walleye
73	0-170	(132%)	.012	.000-.039 (225%)	2.78	1.13	White crappie
55	0-114	(110%)	.001	.000-.004 (139%)	2.07	0.84	Yellow perch

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
3046	2537-3555	(17%)	.079	.061-.096 (22%)	115.79	0.224	All species
1	0-3	(318%)	.000	.000-.000 (318%)	0.03	0.091	Bluegill x Green sun
48	6-90	(87%)	.001	.000-.001 (74%)	1.84	0.156	Black crappie
1006	777-1234	(23%)	.027	.018-.036 (32%)	38.24	0.107	Bluegill
			****	NOT RECORDED	****		Carp
110	35-186	(68%)	.005	.000-.010 (112%)	4.19	1.944	Channel catfish
5	1-8	(80%)	.000	.000-.000 (86%)	0.17	0.068	Green sunfish
582	422-743	(28%)	.023	.014-.033 (40%)	22.13	0.686	Largemouth bass
			****	NOT RECORDED	****		Northern pike
1271	838-1705	(34%)	.020	.015-.025 (27%)	48.34	0.460	Rainbow trout
			****	NOT RECORDED	****		Smallmouth bass
3	0-8	(218%)	.000	.000-.000 (218%)	0.10	0.439	Walleye
15	0-35	(133%)	.002	.000-.008 (225%)	0.58	0.208	White crappie
4	0-9	(108%)	.000	.000-.000 (158%)	0.17	0.082	Yellow perch

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
6715	5593-7837	(17%)	.173	.135-.211 (22%)	103.30	0.495	All species
2	0-7	(318%)	.000	.000-.000 (318%)	0.03	0.200	Bluegill x Green sun
107	14-199	(87%)	.002	.000-.003 (74%)	1.64	0.344	Black crappie
2218	1714-2721	(23%)	.060	.041-.079 (32%)	34.12	0.236	Bluegill
			****	NOT RECORDED ****			Carp
243	77-409	(68%)	.010	.000-.022 (112%)	3.74	4.286	Channel catfish
10	2-18	(80%)	.000	.000-.000 (86%)	0.15	0.149	Green sunfish
1283	929-1637	(28%)	.051	.031-.072 (40%)	19.74	1.513	Largemouth bass
			****	NOT RECORDED ****			Northern pike
2803	1848-3759	(34%)	.044	.032-.056 (27%)	43.12	1.015	Rainbow trout
			****	NOT RECORDED ****			Smallmouth bass
6	0-18	(218%)	.000	.000-.000 (218%)	0.09	0.968	Walleye
34	0-78	(133%)	.005	.000-.018 (225%)	0.52	0.458	White crappie
10	0-20	(108%)	.000	.000-.001 (158%)	0.15	0.180	Yellow perch

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

# CAUGHT	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES	
47642	40089-55194	(16%)	1.157	.967-1.347	(16%)	1811.12	732.95	All species
29	2-57	(93%)	.001	.000-.001	(124%)	1.12	0.45	Bluegill x Green sun
1446	839-2052	(42%)	.027	.014-.039	(47%)	54.97	22.24	Black crappie
28620	21239-36000	(26%)	.619	.457-.782	(26%)	1088.00	440.31	Bluegill
15	0-30	(98%)	.001	.000-.002	(160%)	0.58	0.24	Carp
84	38-129	(54%)	.003	.000-.006	(96%)	3.17	1.28	Channel catfish
461	294-627	(36%)	.005	.003-.007	(45%)	17.51	7.09	Green sunfish
13394	11580-15209	(14%)	.427	.338-.516	(21%)	509.18	206.06	Largemouth bass
6	0-14	(147%)	.000	.000-.000	(193%)	0.22	0.09	Northern pike
3018	2059-3978	(32%)	.047	.036-.058	(23%)	114.75	46.44	Rainbow trout
139	42-237	(70%)	.003	.000-.005	(110%)	5.29	2.14	Smallmouth bass
29	1-58	(98%)	.000	.000-.001	(100%)	1.12	0.45	Walleye
259	54-464	(79%)	.021	.000-.049	(127%)	9.85	3.99	White crappie
141	64-219	(55%)	.003	.001-.006	(71%)	5.37	2.17	Yellow perch

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

KG CAUGHT	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES	
7935	7002-8869	(12%)	.219	.182-.257	(17%)	301.67	0.167	All species
2	0-4	(107%)	.000	.000-.000	(150%)	0.08	0.074	Bluegill x Green sun
188	100-275	(46%)	.004	.002-.006	(54%)	7.13	0.130	Black crappie
2093	1639-2546	(22%)	.049	.038-.061	(23%)	79.55	0.073	Bluegill
14	0-29	(108%)	.001	.000-.002	(165%)	0.54	0.919	Carp
127	48-206	(62%)	.005	.000-.010	(108%)	4.82	1.518	Channel catfish
27	16-37	(40%)	.000	.000-.000	(47%)	1.02	0.058	Green sunfish
4019	3397-4640	(15%)	.134	.102-.166	(24%)	152.77	0.300	Largemouth bass
11	0-27	(145%)	.000	.000-.001	(199%)	0.42	1.926	Northern pike
1366	908-1823	(34%)	.021	.016-.027	(26%)	51.91	0.452	Rainbow trout
29	3-54	(90%)	.001	.000-.002	(150%)	1.09	0.206	Smallmouth bass
12	0-24	(104%)	.000	.000-.000	(106%)	0.45	0.401	Walleye
38	7-69	(82%)	.003	.000-.009	(170%)	1.43	0.145	White crappie
12	6-18	(53%)	.000	.000-.001	(94%)	0.45	0.085	Yellow perch

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
17494	15437-19552	(12%)	.484	.401-.566 (17%)	269.15	0.367	All species
5	0-10	(107%)	.000	.000-.000 (150%)	0.07	0.162	Bluegill x Green sun
414	221-606	(46%)	.008	.004-.012 (54%)	6.37	0.286	Black crappie
4614	3614-5613	(22%)	.109	.083-.135 (23%)	70.98	0.161	Bluegill
31	0-65	(108%)	.002	.000-.004 (165%)	0.48	2.026	Carp
280	106-453	(62%)	.011	.000-.022 (108%)	4.30	3.347	Channel catfish
59	35-82	(40%)	.001	.000-.001 (47%)	0.91	0.128	Green sunfish
8859	7490-10229	(15%)	.296	.225-.367 (24%)	136.30	0.661	Largemouth bass
24	0-59	(145%)	.001	.000-.002 (199%)	0.37	4.246	Northern pike
3011	2001-4020	(34%)	.047	.035-.059 (26%)	46.32	0.997	Rainbow trout
63	6-120	(90%)	.001	.000-.003 (150%)	0.97	0.453	Smallmouth bass
26	0-53	(104%)	.000	.000-.001 (106%)	0.40	0.884	Walleye
83	15-151	(82%)	.007	.000-.020 (170%)	1.28	0.320	White crappie
26	12-40	(53%)	.001	.000-.001 (94%)	0.41	0.187	Yellow perch

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	3.0	2.8-3.2	(7%)	0.6	13.0	314
SHORE	2.0	1.8-2.1	(8%)	0.4	8.7	337
BOAT & SHORE	2.5	2.3-2.6	(6%)	0.4	13.0	651
MILES TRAVELED	13.2	12.8-13.6	(3%)	1	107	2728
SUCCESS RATING (1-10)	4.7	4.6-4.8	(2%)	1	10	2723

*164 samples were from split interviews of completed trips.

20.2% of all 3221 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 29 out of 3221 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	199	263	87	18	9					
SHORE INTERVIEWS	1538	642	268	102	43	24	8	11	2	7

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

1186 (36.8%)	ANY	All species
50 (1.6%)	BLC	Black crappie
325 (10.1%)	BLG	Bluegill
2 (0.1%)	CAP	Carp
12 (0.4%)	CAT	Unidentified catfish
59 (1.8%)	CCF	Channel catfish
1 (0.0%)	CRP	Crappie spp.
1 (0.0%)	GSF	Green sunfish
998 (31.0%)	LMB	Largemouth bass
3 (0.1%)	NOP	Northern pike
510 (15.8%)	RBT	Rainbow trout
8 (0.2%)	SMB	Smallmouth bass
63 (2.0%)	WAE	Walleye
2 (0.1%)	WHC	White crappie
1 (0.0%)	YEP	Yellow perch

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Bluegill x Green sunfish hybrid																
HARVEST	1161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1157	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	1153	5	2	-	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1099	33	12	14	3	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	1093	19	6	13	5	7	3	4	-	1	2	3	-	-	-	5
RELEASE	796	132	90	53	35	17	6	2	7	2	4	1	5	-	-	11
Carp																
HARVEST	1161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1157	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	1156	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1159	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	1161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1141	16	3	1	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	1074	83	2	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	701	177	100	61	27	33	24	12	6	5	5	-	2	-	1	7
Northern pike																
HARVEST	1161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1159	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rainbow trout																
HARVEST	1113	26	8	9	1	4	-	-	-	-	-	-	-	-	-	-
RELEASE	1147	13	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	1161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1159	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Walleye																
HARVEST	1160	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1159	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	1157	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	1155	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-

2000 SILVER LAKE

DAY CREEL

04/01/2000 - 10/31/2000

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 perch

HARVEST	1154	3	3	-	-	-	-	-	1	-	-	-	-	-	-	-
RELEASE	1148	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-

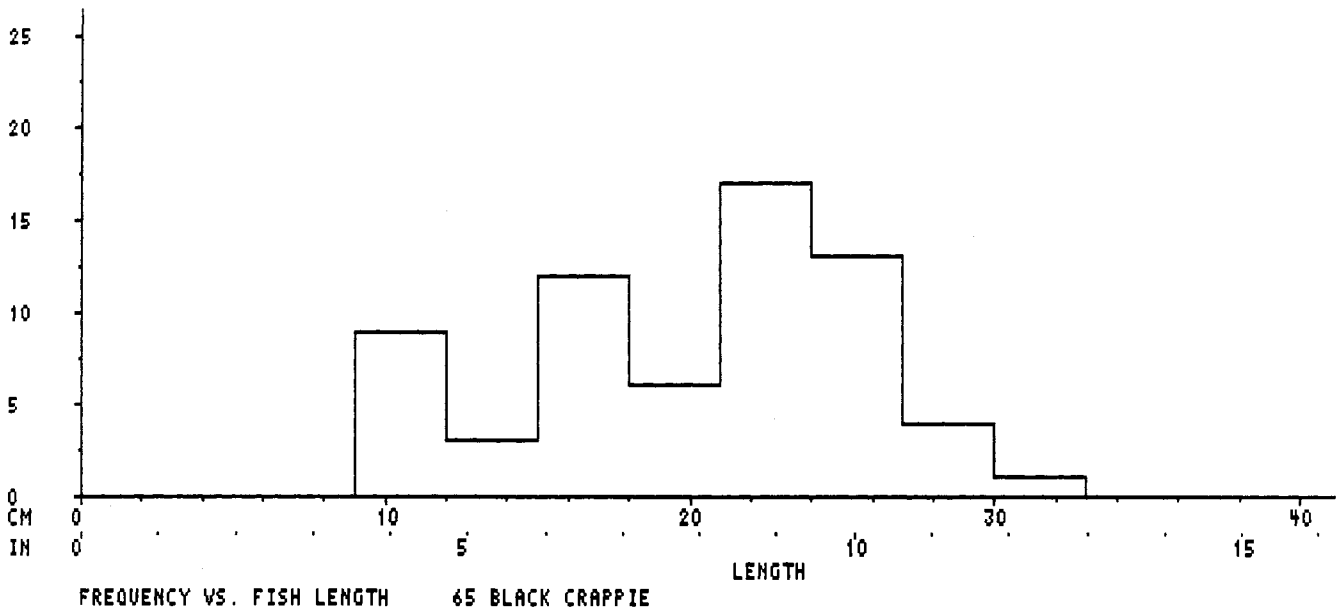


Figure 1. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

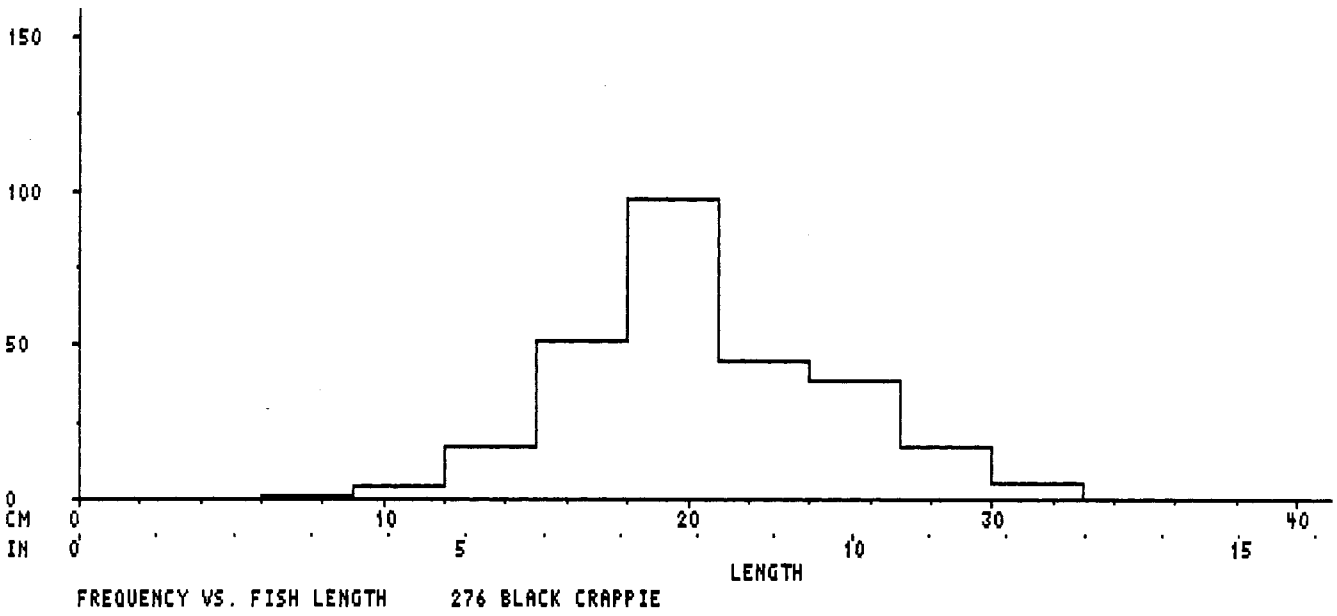


Figure 2. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of black crappie released by all anglers. Note the difference in scale from Figure 1.

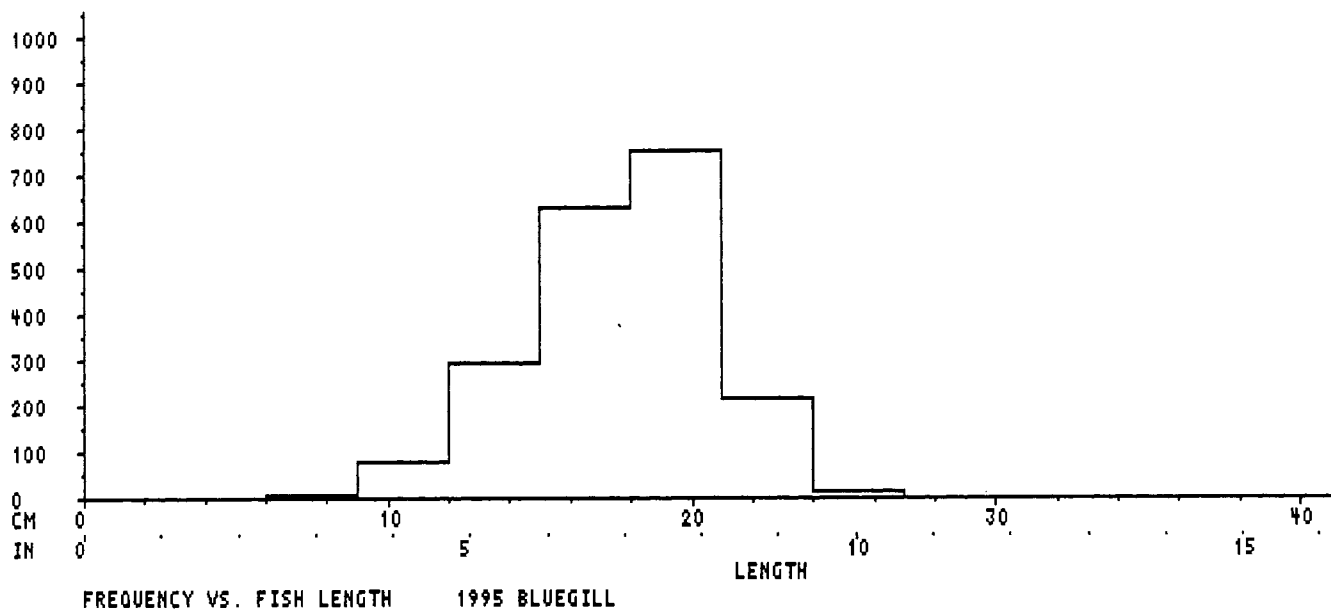


Figure 3. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

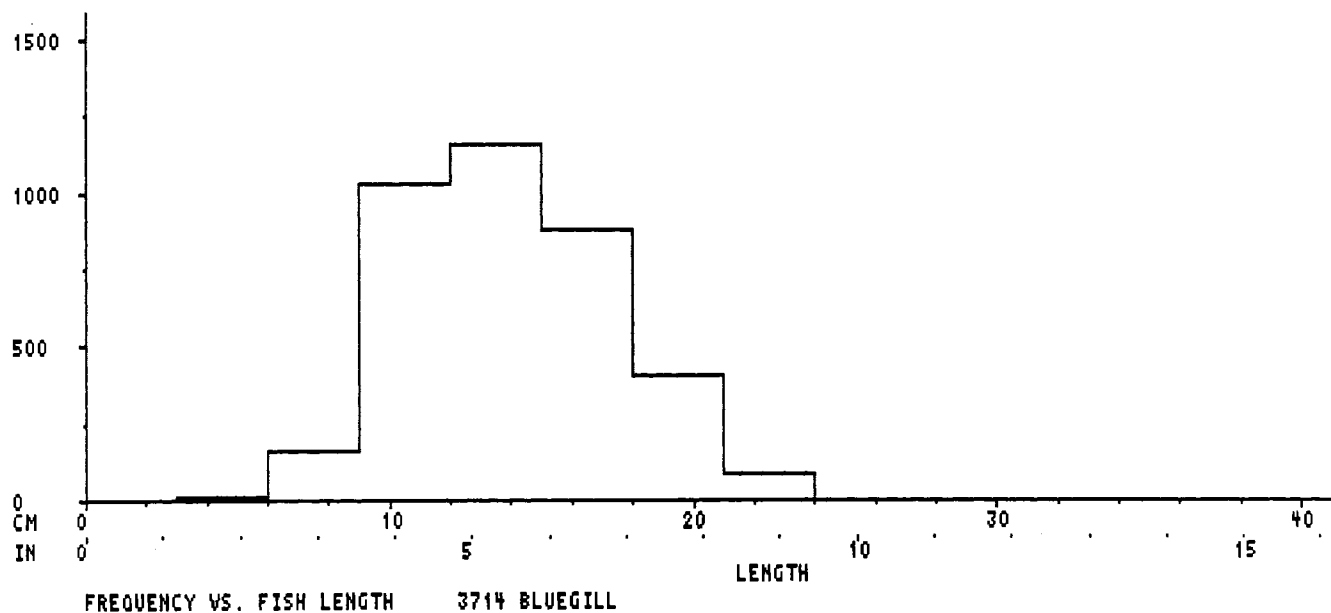


Figure 4. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

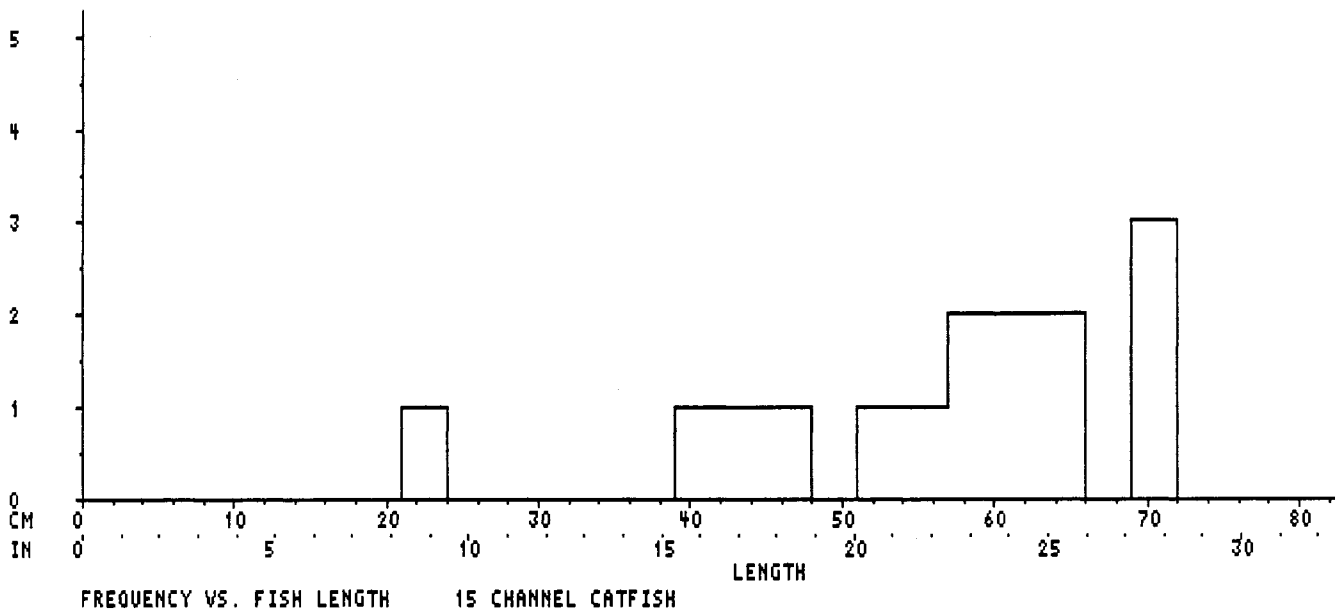


Figure 5. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

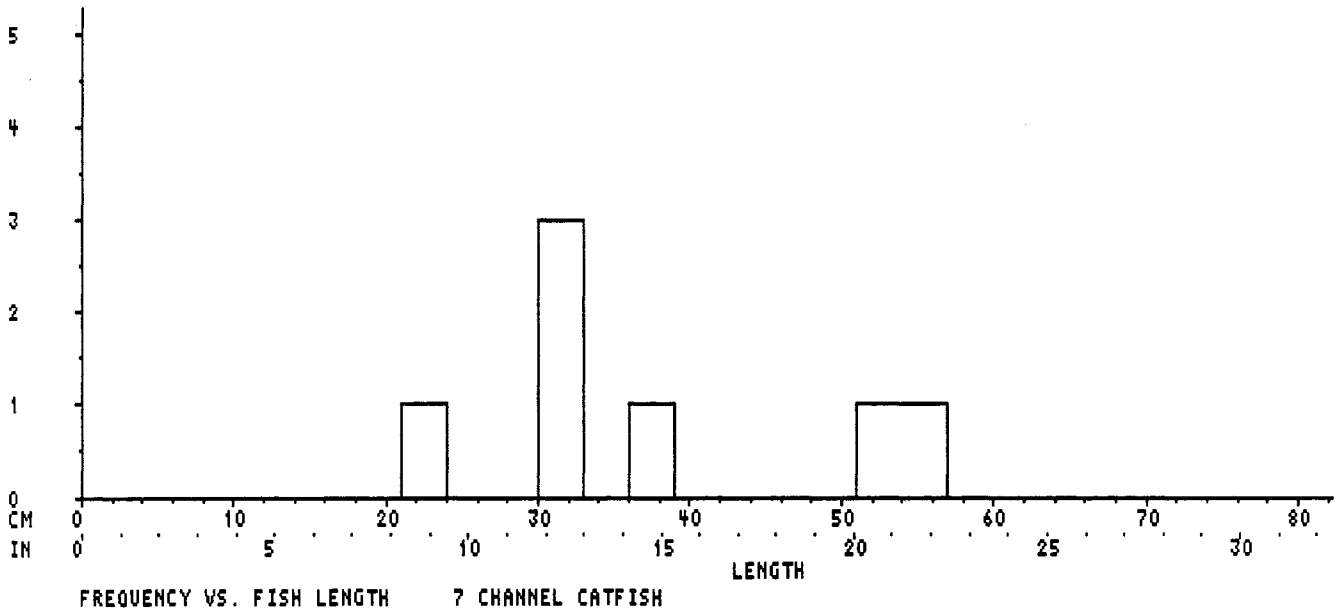


Figure 6. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

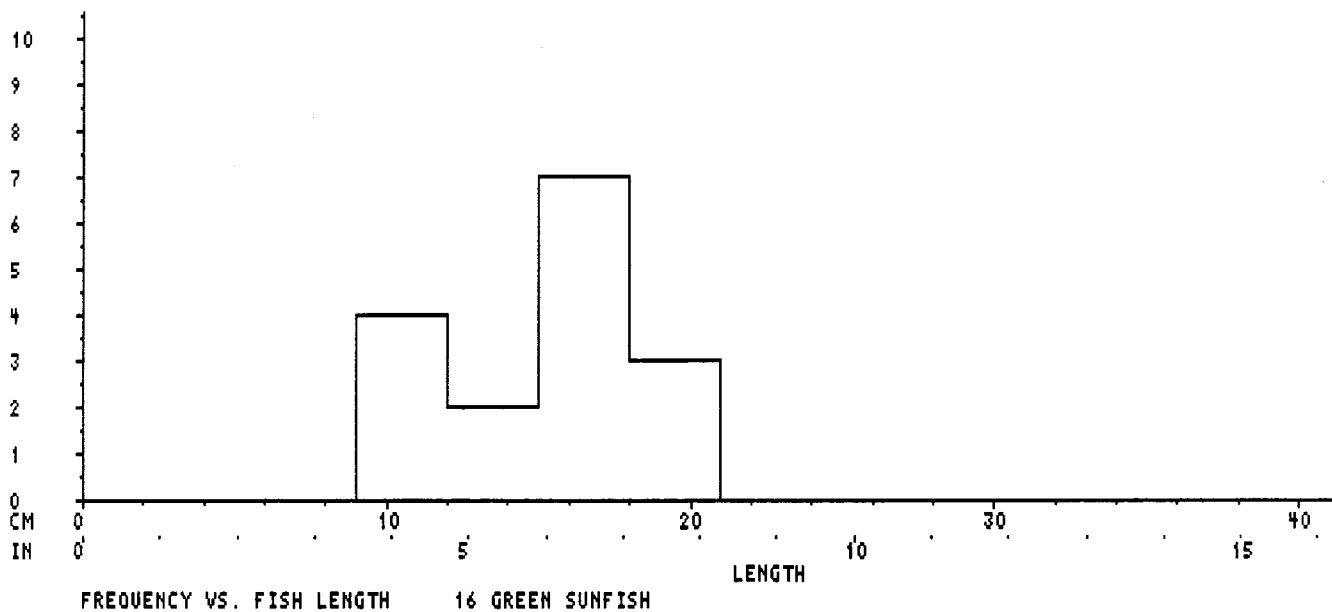


Figure 7. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of green sunfish harvested by all anglers.

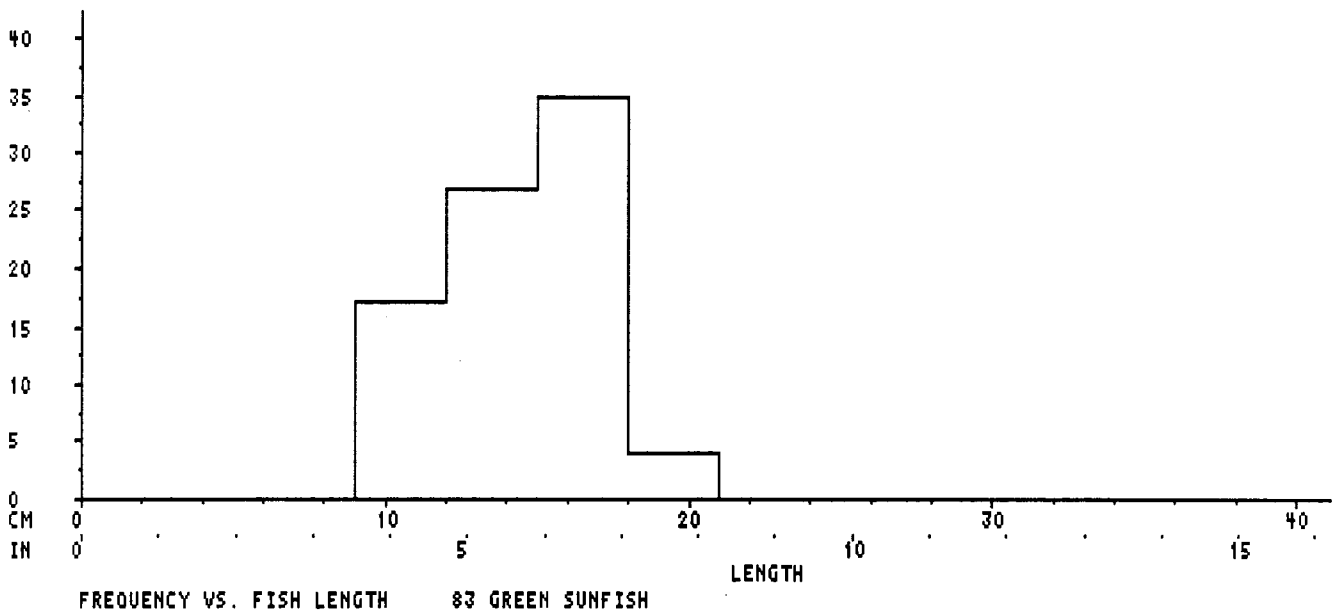


Figure 8. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of green sunfish released by all anglers. Note the difference in scale from Figure 7.

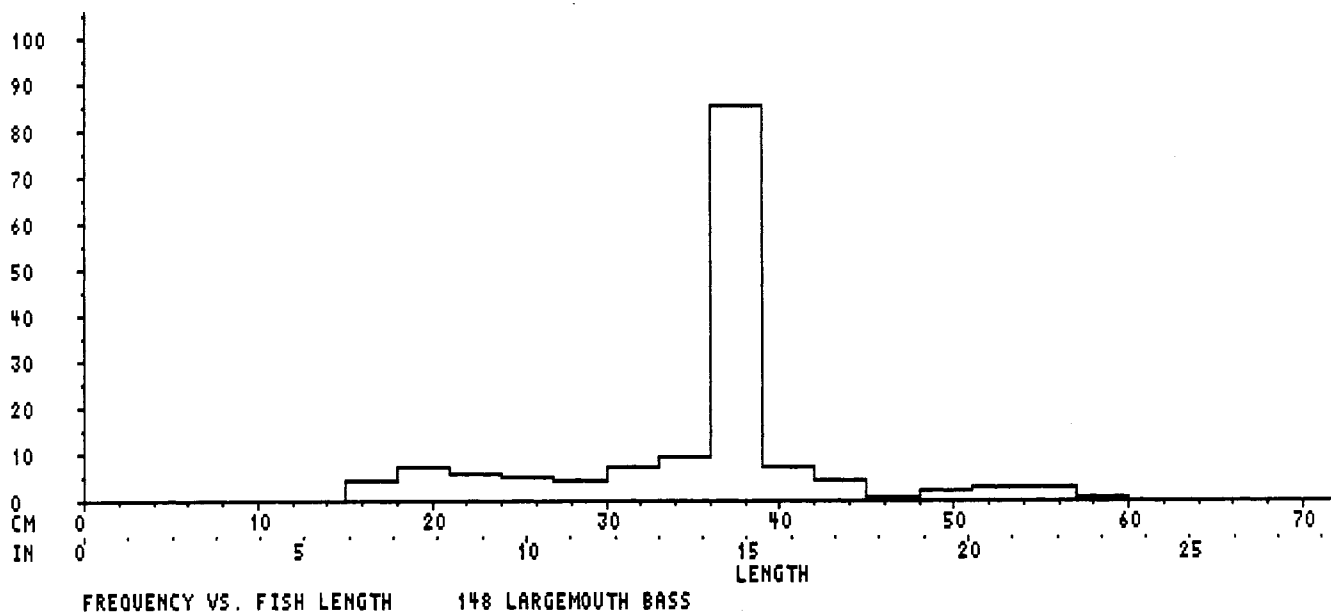


Figure 9. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

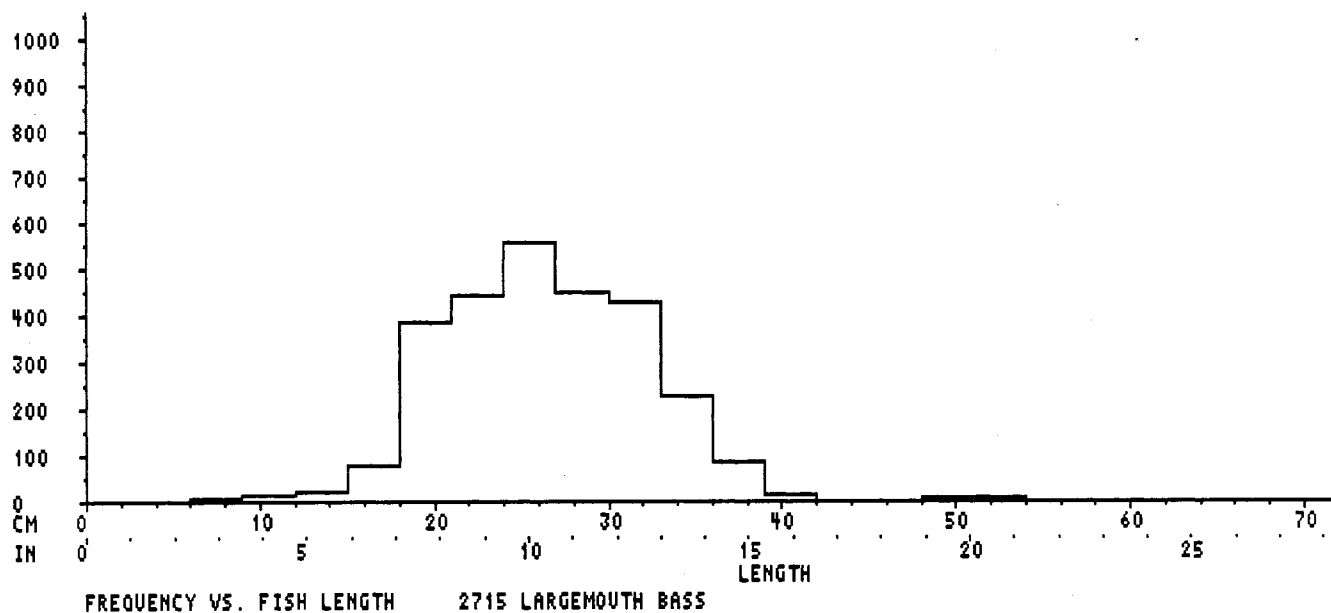


Figure 10. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 9.

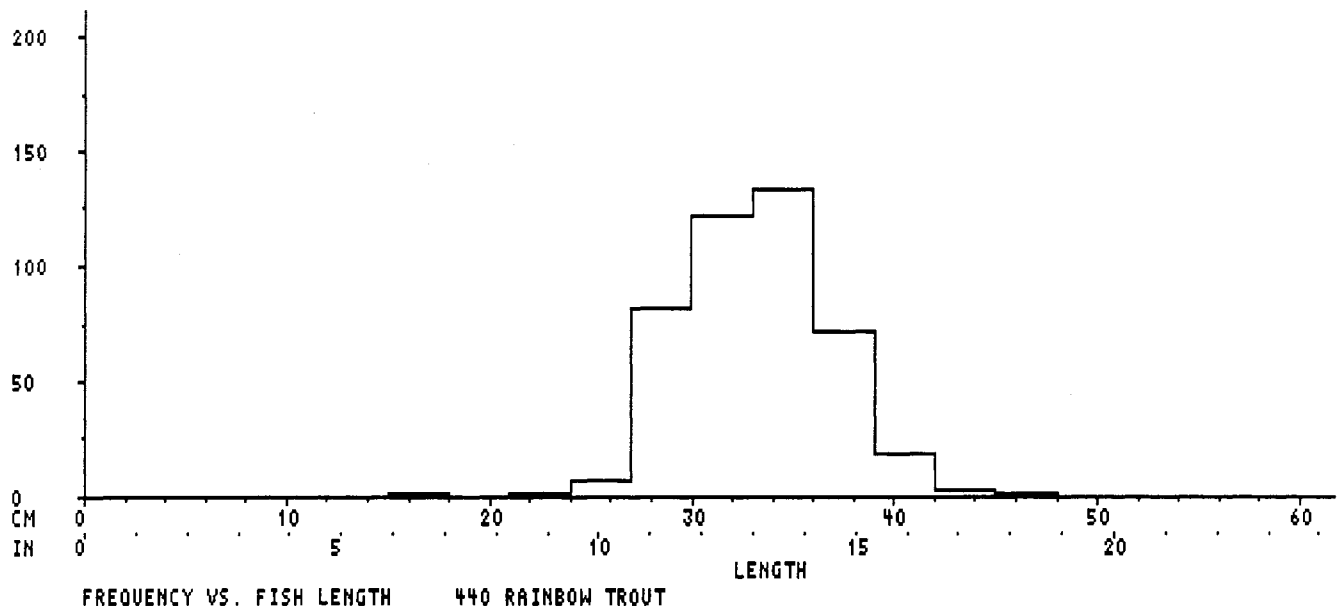


Figure 11. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of rainbow trout harvested by all anglers.

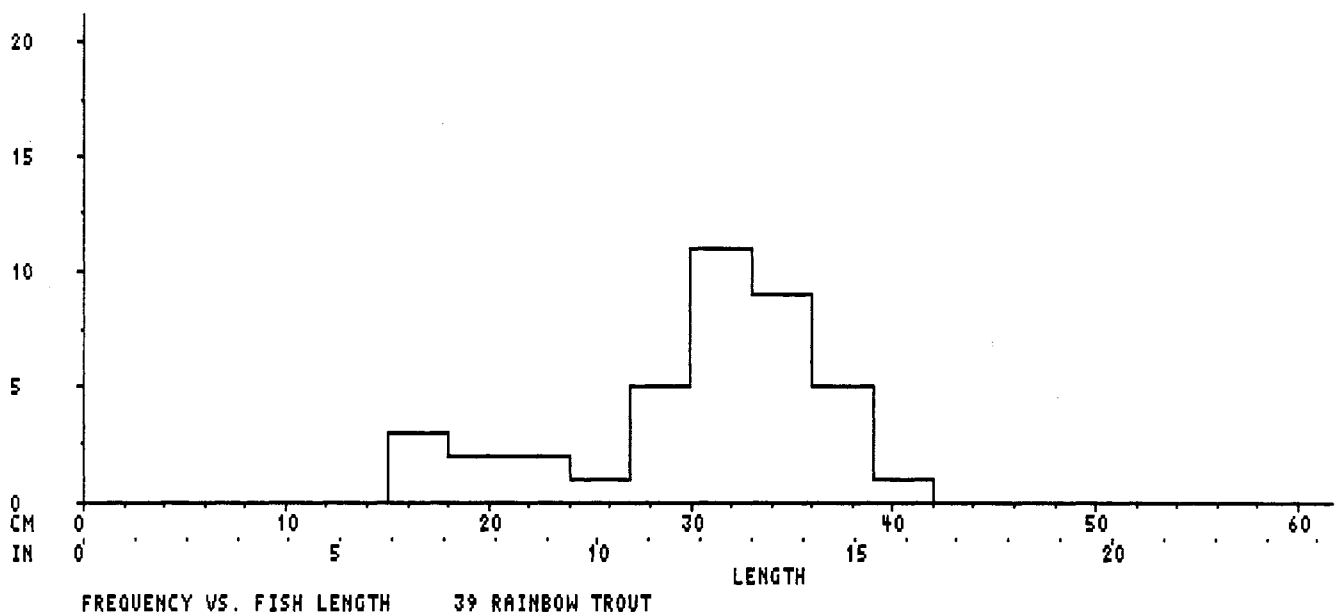


Figure 12. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of rainbow trout released by all anglers. Note the difference in scale from Figure 11.

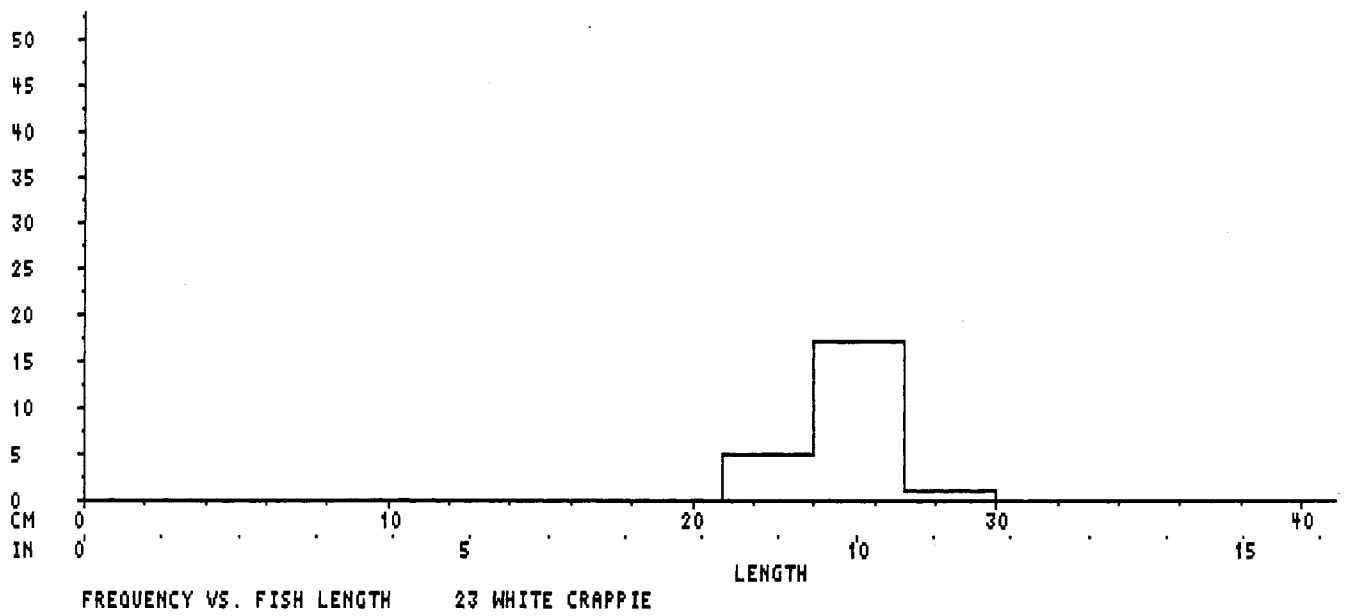


Figure 13. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

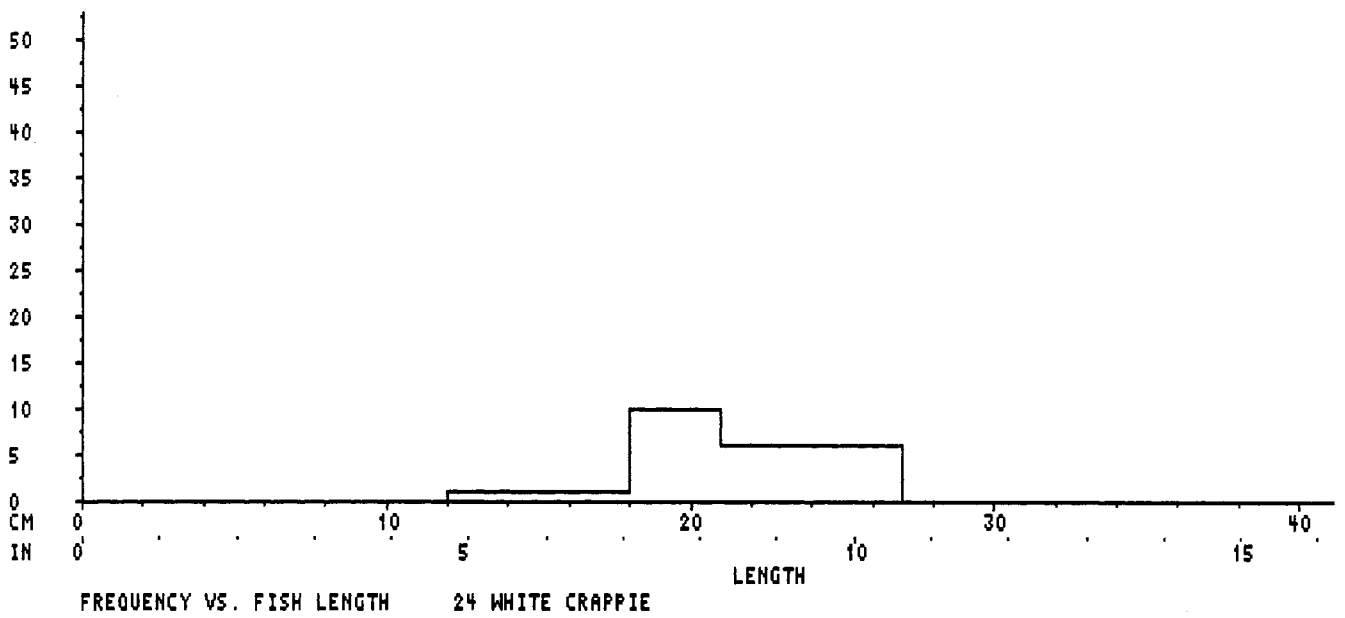


Figure 14. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of white crappie released by all anglers.

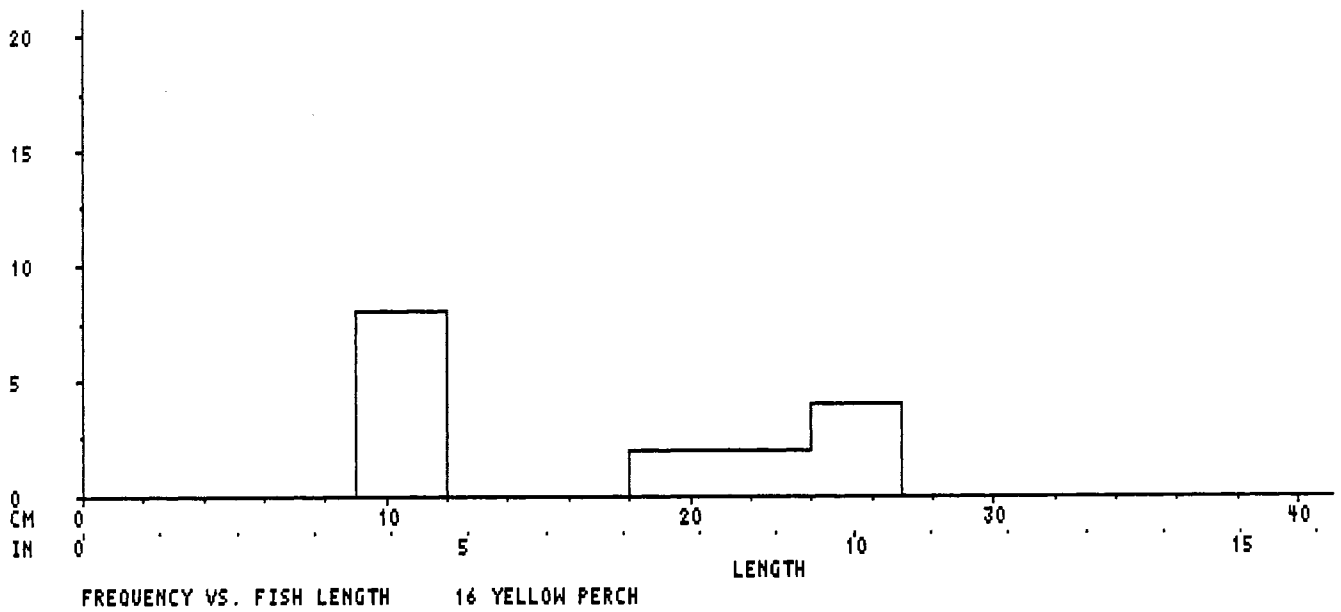


Figure 15. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of yellow perch harvested by all anglers.

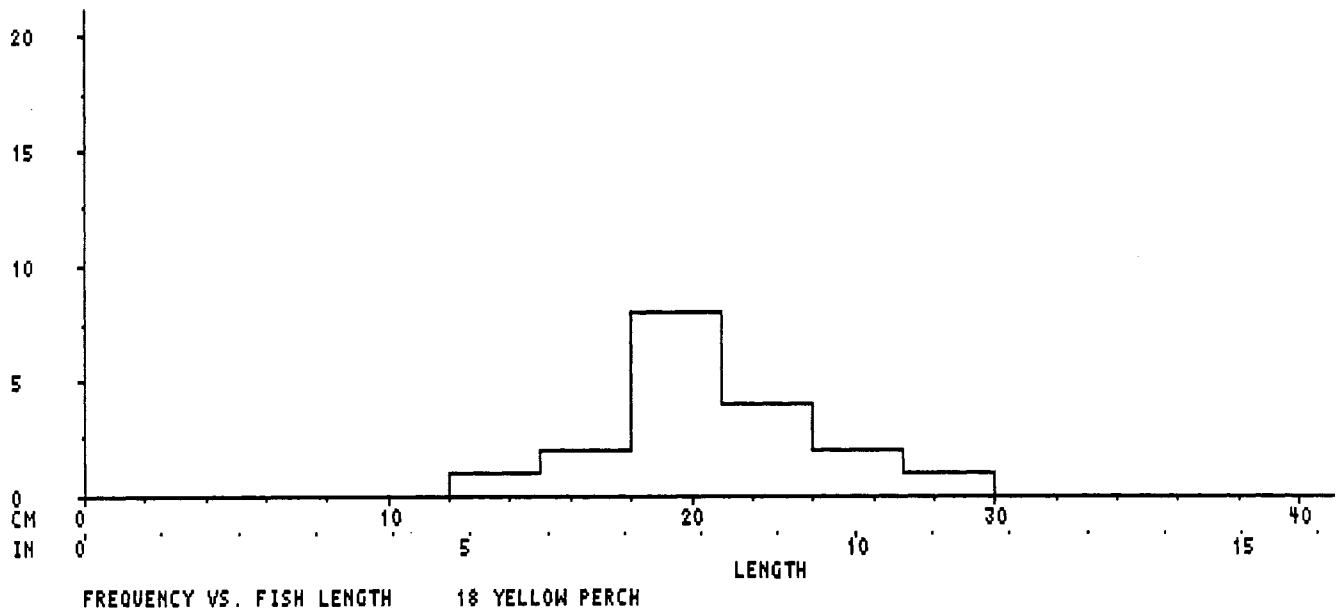


Figure 16. Silver Lake 2000 day creel 4/1 through 10/31. Length-frequency histogram of yellow perch released by all anglers.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 STERLING LAKE
 68 ACRES
 REGION 2, DISTRICT 7

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 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: 308/693 = 44.4%

NUMBER OF INTERVIEWS: 1180

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	1556	1235-1876 (21%)	23	18-27 (21%)	18%
	HOLIDAY	2321	2015-2628 (13%)	34	29-38 (13%)	42%
	TOTAL	3877	3433-4320 (11%)	57	50-63 (11%)	33%
SHORE	WEEKDAY	6004	5308-6700 (12%)	88	77-98 (12%)	15%
	HOLIDAY	4604	4215-4993 (8%)	67	62-73 (8%)	30%
	TOTAL	10608	9811-11405 (8%)	155	143-167 (8%)	22%
BOAT & SHORE	WEEKDAY	7559	6793-8326 (10%)	110	99-122 (10%)	16%
	HOLIDAY	6925	6430-7420 (7%)	101	94-108 (7%)	34%
	TOTAL	14485	13572-15397 (6%)	211	198-225 (6%)	25%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
3385	2490-4279	(26%)	.166	.109-.224 (35%)	122.09	49.41	All species
			****	NOT RECORDED			Black bullhead
1717	855-2579	(50%)	.095	.029-.162 (70%)	61.94	25.07	Black crappie
945	604-1286	(36%)	.034	.022-.045 (35%)	34.09	13.79	Bluegill
7	0-22	(218%)	.000	.000-.001 (218%)	0.25	0.10	Bowfin
51	12-91	(77%)	.002	.001-.003 (69%)	1.85	0.75	Carp
178	99-258	(45%)	.010	.005-.016 (51%)	6.44	2.60	Channel catfish
			****	NOT RECORDED			Green sunfish
85	32-138	(62%)	.005	.000-.011 (133%)	3.07	1.24	Largemouth bass
			****	NOT RECORDED			Muskellunge
23	1-44	(95%)	.001	.000-.003 (158%)	0.82	0.33	Northern pike
39	0-86	(118%)	.001	.000-.002 (133%)	1.42	0.58	Pumpkinseed
3	0-9	(170%)	.000	.000-.001 (194%)	0.12	0.05	Smallmouth bass
77	38-116	(51%)	.006	.002-.011 (73%)	2.77	1.12	Walleye
18	0-41	(135%)	.001	.000-.001 (123%)	0.63	0.26	Warmouth
4	0-13	(245%)	.000	.000-.000 (257%)	0.13	0.05	White crappie
238	131-345	(45%)	.011	.005-.017 (54%)	8.57	3.47	Yellow perch

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
647	515-778	(20%)	.038	.027-.049 (29%)	23.34	0.191	All species
			****	NOT RECORDED			Black bullhead
232	146-319	(37%)	.013	.008-.018 (41%)	8.38	0.135	Black crappie
42	28-57	(34%)	.002	.001-.002 (34%)	1.52	0.045	Bluegill
0	0-1	(218%)	.000	.000-.000 (218%)	0.01	0.047	Bowfin
56	0-156	(181%)	.002	.000-.004 (133%)	2.01	1.088	Carp
124	68-179	(45%)	.007	.003-.011 (52%)	4.46	0.693	Channel catfish
			****	NOT RECORDED			Green sunfish
63	22-104	(65%)	.004	.000-.009 (117%)	2.28	0.742	Largemouth bass
			****	NOT RECORDED			Muskellunge
44	0-88	(101%)	.002	.000-.006 (178%)	1.59	1.943	Northern pike
3	0-7	(135%)	.000	.000-.000 (147%)	0.11	0.076	Pumpkinseed
5	0-12	(156%)	.000	.000-.001 (175%)	0.18	1.481	Smallmouth bass
56	26-85	(53%)	.007	.000-.015 (120%)	2.01	0.725	Walleye
4	0-9	(140%)	.000	.000-.000 (126%)	0.14	0.218	Warmouth
0	0-2	(245%)	.000	.000-.000 (257%)	0.02	0.129	White crappie
17	8-26	(52%)	.001	.000-.001 (64%)	0.63	0.073	Yellow perch

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1426	1136-1716	(20%)	.084	.059-.109 (29%)	20.82	0.421	All species
			****	NOT RECORDED	****		Black bullhead
512	322-703	(37%)	.029	.017-.041 (41%)	7.48	0.298	Black crappie
93	61-125	(34%)	.003	.002-.005 (34%)	1.36	0.099	Bluegill
1	0-2	(216%)	.000	.000-.000 (216%)	0.01	0.103	Bowfin
123	0-345	(181%)	.004	.000-.009 (133%)	1.79	2.400	Carp
272	150-395	(45%)	.016	.007-.024 (52%)	3.98	1.527	Channel catfish
			****	NOT RECORDED	****		Green sunfish
139	48-230	(65%)	.009	.000-.019 (117%)	2.03	1.636	Largemouth bass
			****	NOT RECORDED	****		Muskellunge
97	0-195	(101%)	.005	.000-.014 (178%)	1.42	4.283	Northern pike
7	0-16	(135%)	.000	.000-.000 (147%)	0.10	0.168	Pumpkinseed
11	0-27	(156%)	.001	.000-.002 (175%)	0.16	3.266	Smallmouth bass
123	58-188	(53%)	.015	.000-.033 (120%)	1.80	1.599	Walleye
8	0-20	(140%)	.000	.000-.001 (126%)	0.12	0.480	Warmouth
1	0-4	(257%)	.000	.000-.000 (245%)	0.02	0.284	White crappie
38	19-58	(52%)	.002	.001-.003 (64%)	0.56	0.162	Yellow perch

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

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
11159	9905-12413 (11%)	.506	.433-.578 (14%)	402.55	162.91	All species
40	0-80 (102%)	.002	.000-.005 (110%)	1.43	0.58	Black bullhead
2065	1182-2948 (43%)	.111	.043-.179 (61%)	74.49	30.15	Black crappie
5314	4588-6040 (14%)	.212	.176-.248 (17%)	191.69	77.58	Bluegill
33	0-67 (104%)	.001	.000-.003 (104%)	1.18	0.48	Bowfin
78	34-122 (56%)	.003	.001-.005 (64%)	2.80	1.13	Carp
310	209-410 (33%)	.016	.010-.023 (38%)	11.17	4.52	Channel catfish
30	0-92 (204%)	.000	.000-.001 (187%)	1.09	0.44	Green sunfish
1352	1129-1575 (16%)	.064	.052-.075 (17%)	48.77	19.74	Largemouth bass
96	49-142 (49%)	.006	.003-.009 (53%)	3.45	1.39	Muskellunge
96	53-139 (45%)	.004	.002-.007 (62%)	3.47	1.41	Northern pike
99	33-165 (67%)	.004	.001-.006 (71%)	3.57	1.45	Pumpkinseed
12	0-25 (108%)	.000	.000-.001 (121%)	0.43	0.17	Smallmouth bass
320	211-428 (34%)	.022	.010-.034 (56%)	11.54	4.67	Walleye
65	24-106 (63%)	.002	.001-.004 (75%)	2.35	0.95	Warmouth
17	0-60 (258%)	.000	.000-.001 (273%)	0.61	0.25	White crappie
1234	1000-1468 (19%)	.056	.043-.070 (24%)	44.51	18.01	Yellow perch

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

KG CAUGHT	95% CI	KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
1688	1445-1930 (14%)	.088	.074-.102 (16%)	60.88	0.151	All species
9	0-18 (99%)	.001	.000-.001 (129%)	0.32	0.227	Black bullhead
260	172-349 (34%)	.014	.009-.020 (38%)	9.39	0.126	Black crappie
195	164-226 (16%)	.008	.006-.009 (19%)	7.05	0.037	Bluegill
2	0-4 (99%)	.000	.000-.000 (94%)	0.07	0.062	Bowfin
79	0-173 (119%)	.003	.000-.005 (84%)	2.84	1.013	Carp
160	99-220 (38%)	.009	.005-.013 (42%)	5.75	0.515	Channel catfish
1	0-4 (198%)	.000	.000-.000 (172%)	0.04	0.040	Green sunfish
470	371-570 (21%)	.023	.017-.028 (24%)	16.96	0.348	Largemouth bass
180	79-280 (56%)	.010	.005-.016 (55%)	6.48	1.879	Muskellunge
112	52-171 (53%)	.005	.001-.009 (83%)	4.02	1.158	Northern pike
8	2-13 (72%)	.000	.000-.000 (77%)	0.28	0.077	Pumpkinseed
7	0-15 (113%)	.000	.000-.001 (155%)	0.25	0.585	Smallmouth bass
125	83-167 (34%)	.012	.002-.021 (84%)	4.50	0.390	Walleye
15	5-25 (66%)	.001	.000-.001 (91%)	0.55	0.232	Warmouth
1	0-4 (206%)	.000	.000-.000 (251%)	0.05	0.083	White crappie
64	51-77 (21%)	.003	.002-.004 (27%)	2.32	0.052	Yellow perch

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

LB CAUGHT	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
3720	3186-4255	(14%)	.194	.163-.224 (16%)	54.31	0.333	All species
20	0-39	(99%)	.001	.000-.003 (129%)	0.29	0.500	Black bullhead
574	378-770	(34%)	.032	.020-.043 (38%)	8.38	0.278	Black crappie
431	362-499	(16%)	.017	.014-.020 (19%)	6.29	0.081	Bluegill
4	0-9	(99%)	.000	.000-.000 (94%)	0.06	0.136	Bowfin
174	0-380	(119%)	.006	.001-.011 (84%)	2.53	2.233	Carp
352	218-485	(38%)	.020	.011-.028 (42%)	5.13	1.136	Channel catfish
3	0-8	(198%)	.000	.000-.000 (172%)	0.04	0.087	Green sunfish
1037	817-1256	(21%)	.050	.038-.062 (24%)	15.13	0.767	Largemouth bass
396	174-618	(56%)	.022	.010-.034 (55%)	5.78	4.143	Muskellunge
246	115-377	(53%)	.011	.002-.020 (83%)	3.59	2.554	Northern pike
17	5-29	(72%)	.001	.000-.001 (77%)	0.25	0.170	Pumpkinseed
15	0-33	(113%)	.001	.000-.002 (155%)	0.22	1.289	Smallmouth bass
275	182-368	(34%)	.025	.004-.047 (84%)	4.02	0.860	Walleye
33	11-55	(66%)	.001	.000-.003 (91%)	0.49	0.511	Warmouth
3	0-9	(206%)	.000	.000-.000 (251%)	0.04	0.183	White crappie
142	112-171	(21%)	.007	.005-.009 (27%)	2.07	0.115	Yellow perch

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

	MEAN	95% CI		MIN	MAX	#SAMPLES
HOURS PER COMPLETED TRIP*						
BOAT	2.7	2.5-2.9	(7%)	0.8	10.0	188
SHORE	1.5	1.4-1.6	(7%)	0.4	7.0	296
BOAT & SHORE	2.0	1.8-2.1	(5%)	0.4	10.0	484
MILES TRAVELED	10.7	10.2-11.2	(5%)	1	80	1056
SUCCESS RATING (1-10)	3.0	2.8-3.1	(4%)	1	10	1055

*62 samples were from split interviews of completed trips.
43.3% of all 1117 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 9 out of 1117 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	62	178	34	5						
SHORE INTERVIEWS	323	328	118	49	11	8				1

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

571 (51.1%)	ANY	All species
1 (0.1%)	BLB	Black bullhead
6 (0.5%)	BLC	Black crappie
21 (1.9%)	BLG	Bluegill
8 (0.7%)	CAP	Carp
66 (5.9%)	CCF	Channel catfish
91 (8.1%)	CRP	Crappie spp.
185 (16.6%)	LMB	Largemouth bass
79 (7.1%)	MUE	Muskellunge
7 (0.6%)	NOP	Northern pike
1 (0.1%)	SMB	Smallmouth bass
81 (7.3%)	WAE	Walleye

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black bullhead																
HARVEST	898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	896	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Black crappie																
HARVEST	854	21	6	1	2	-	4	2	5	-	1	-	-	2	-	-
RELEASE	859	30	3	2	4	-	-	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	866	10	11	2	4	2	-	3	-	-	-	-	-	-	-	-
RELEASE	731	97	41	12	5	7	3	-	2	-	-	-	-	-	-	-
Bowfin																
HARVEST	898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	895	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carp																
HARVEST	895	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	894	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	875	22	1	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	884	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	895	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	884	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	728	132	27	9	2	-	-	-	-	-	-	-	-	-	-	-
Muskellunge																
HARVEST	898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	873	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Northern pike																
HARVEST	893	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	879	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pumpkinseed																
HARVEST	893	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	895	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Smallmouth bass																
HARVEST	896	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	892	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Walleye																
HARVEST	871	24	2	-	1	-	-	-	-	-	-	-	-	-	-	-
RELEASE	848	29	16	3	1	1	-	-	-	-	-	-	-	-	-	-
Warmouth																
HARVEST	896	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	897	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	896	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	898	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yellow perch																
HARVEST	881	13	4	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	799	82	9	6	2	-	-	-	-	-	-	-	-	-	-	-

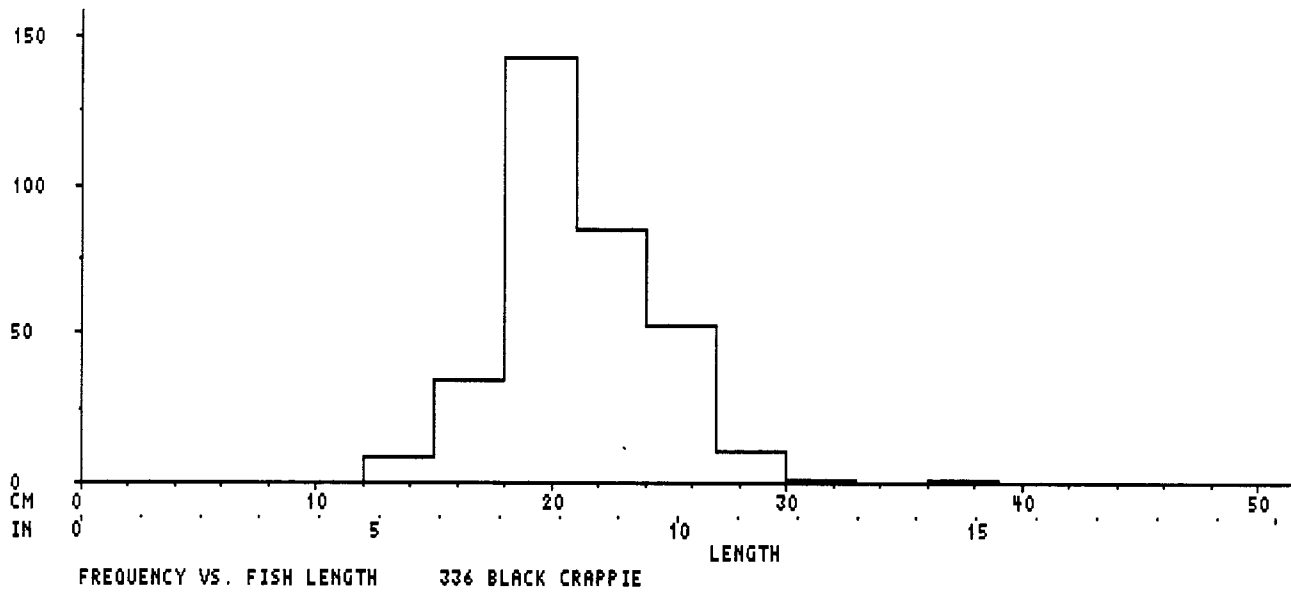


Figure 1. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

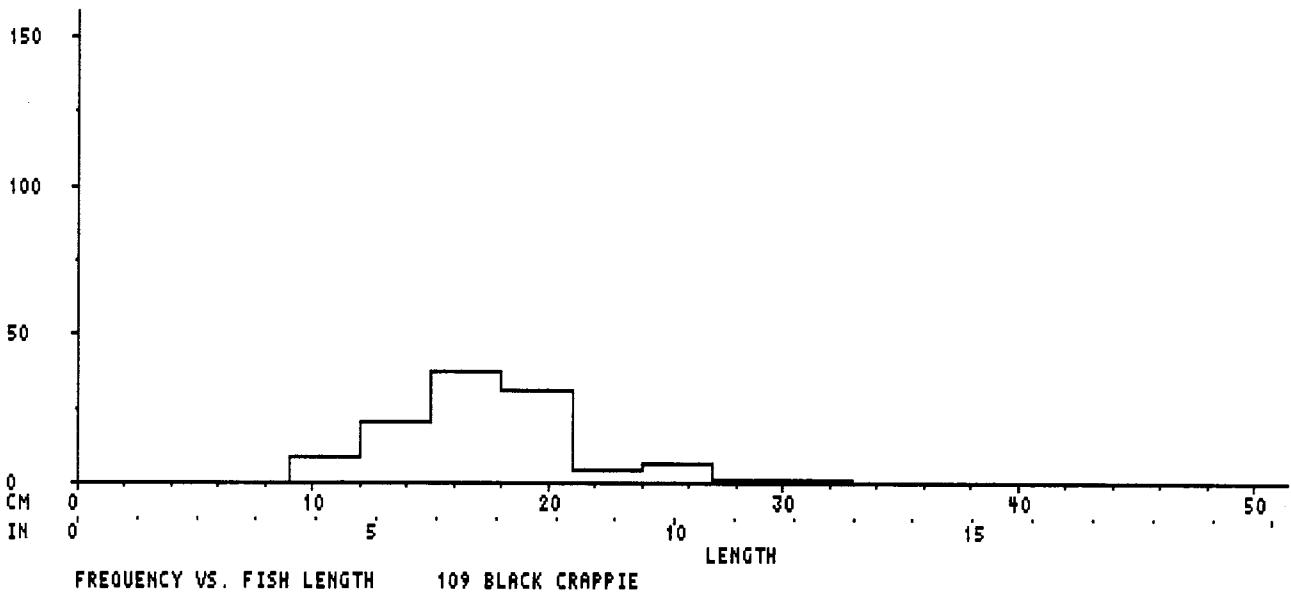


Figure 2. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

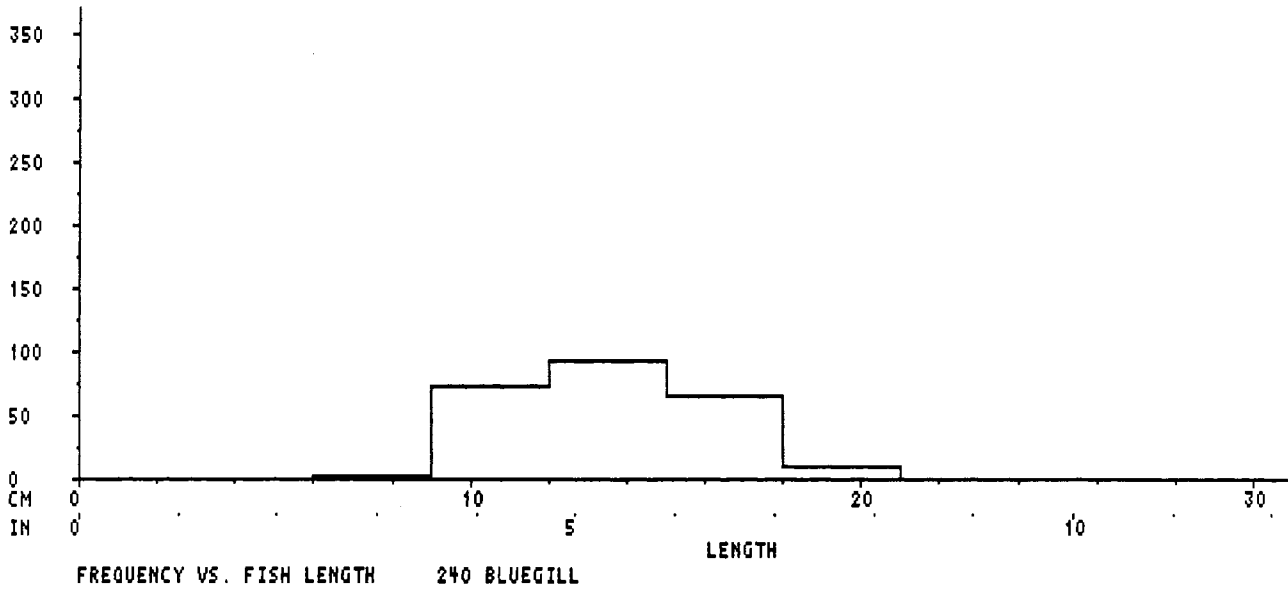


Figure 3. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

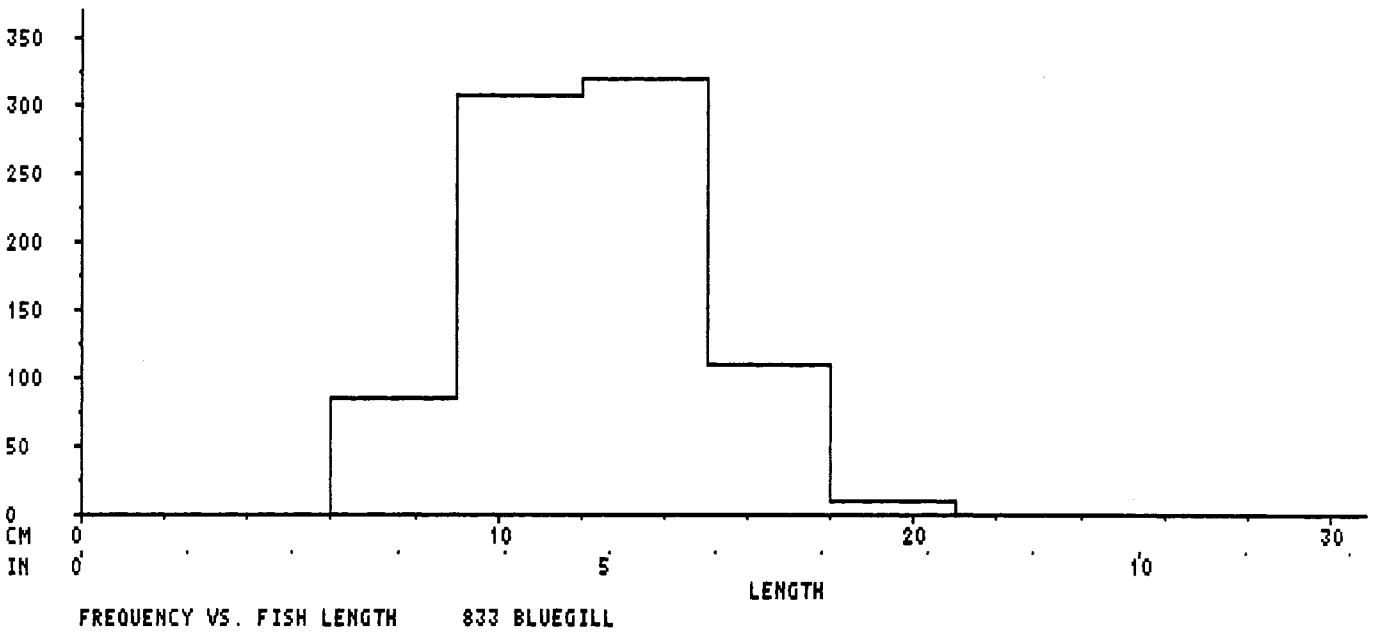


Figure 4. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers.

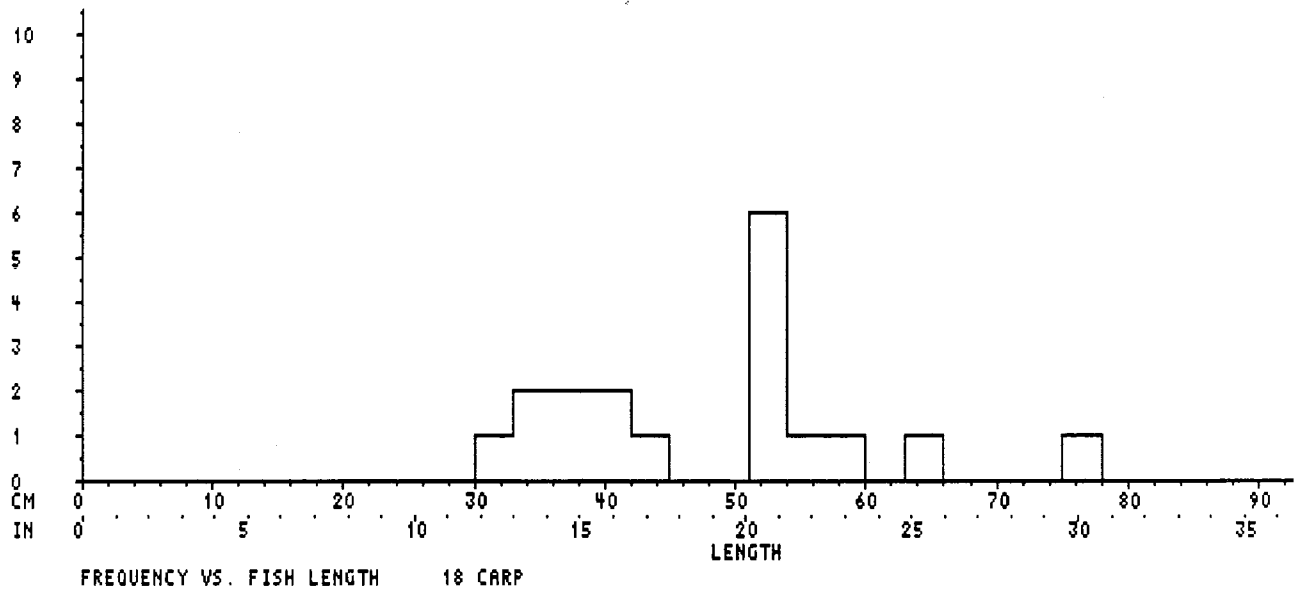


Figure 5. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

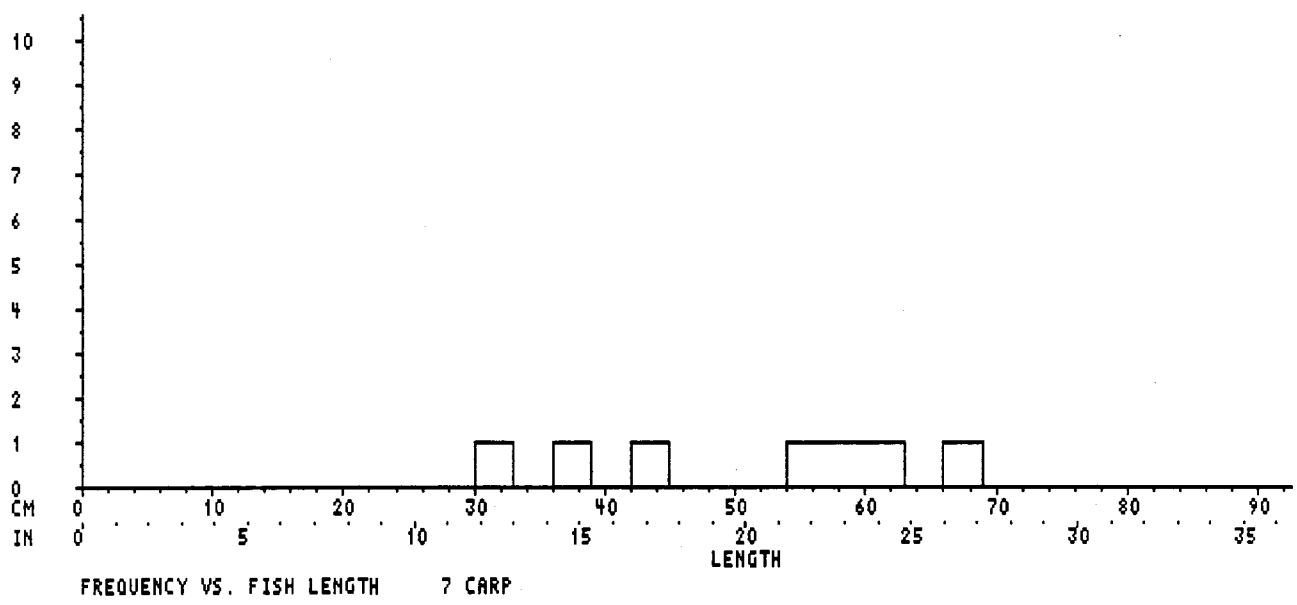


Figure 6. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

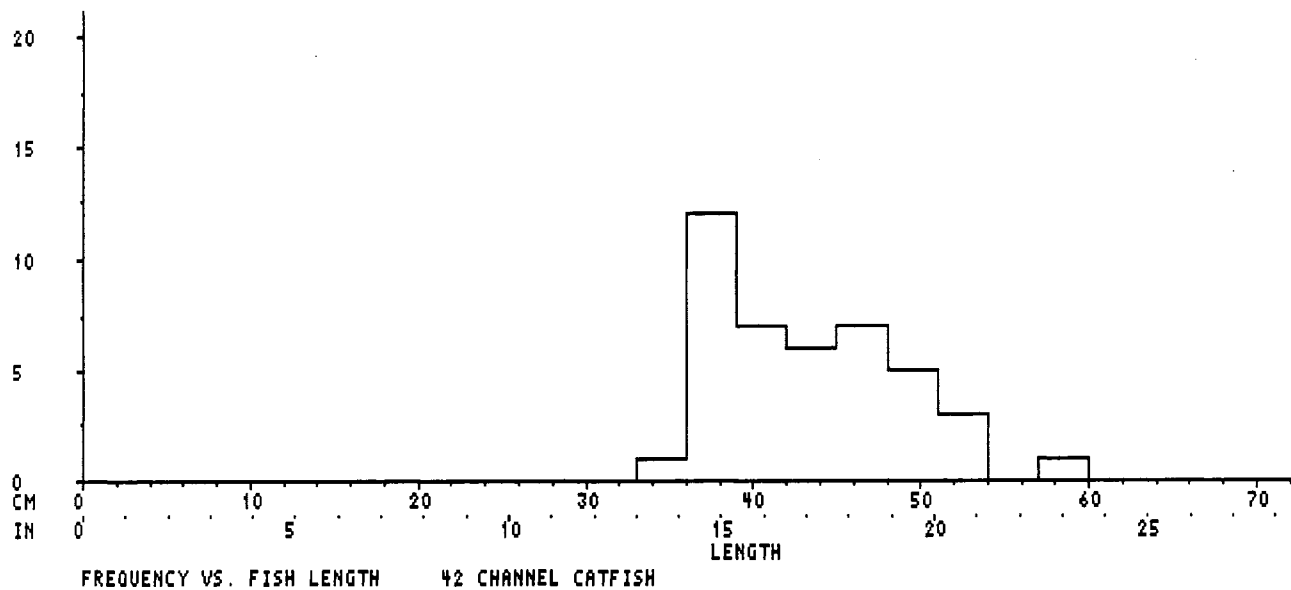


Figure 7. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

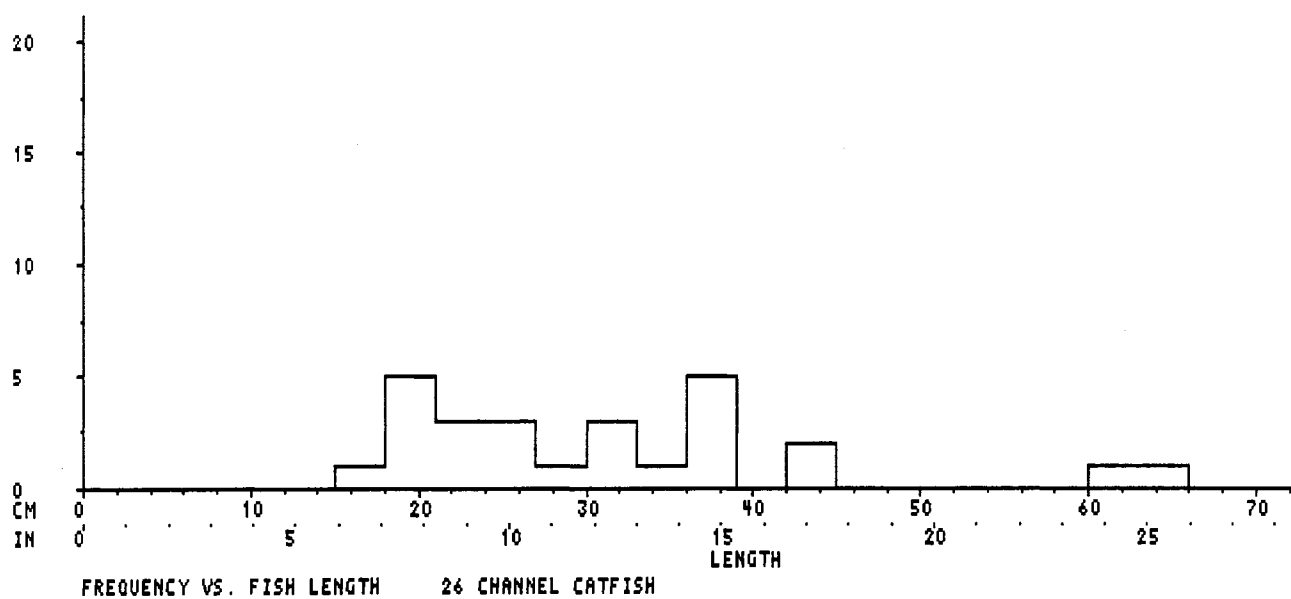


Figure 8. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers.

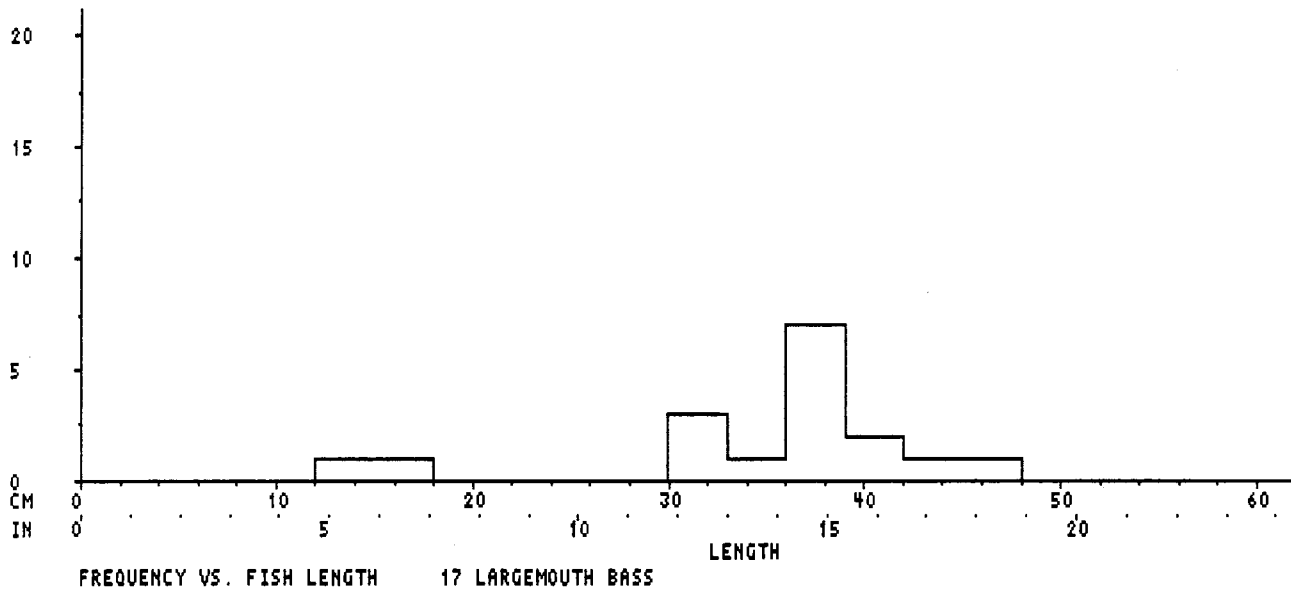


Figure 9. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

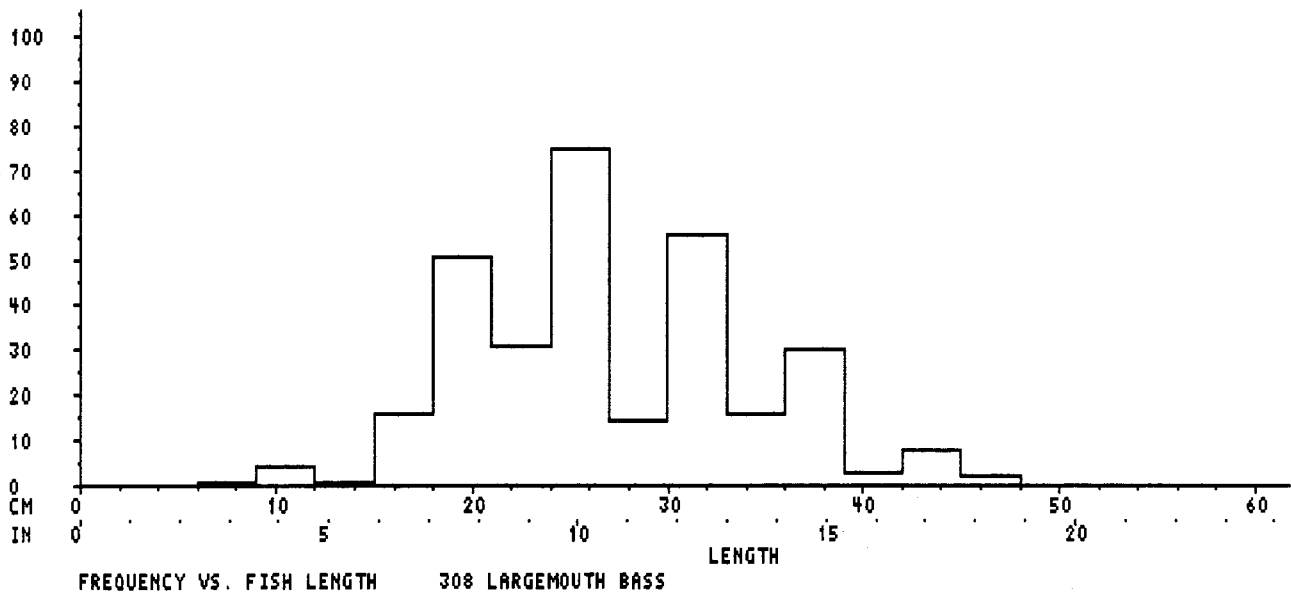


Figure 10. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 9.

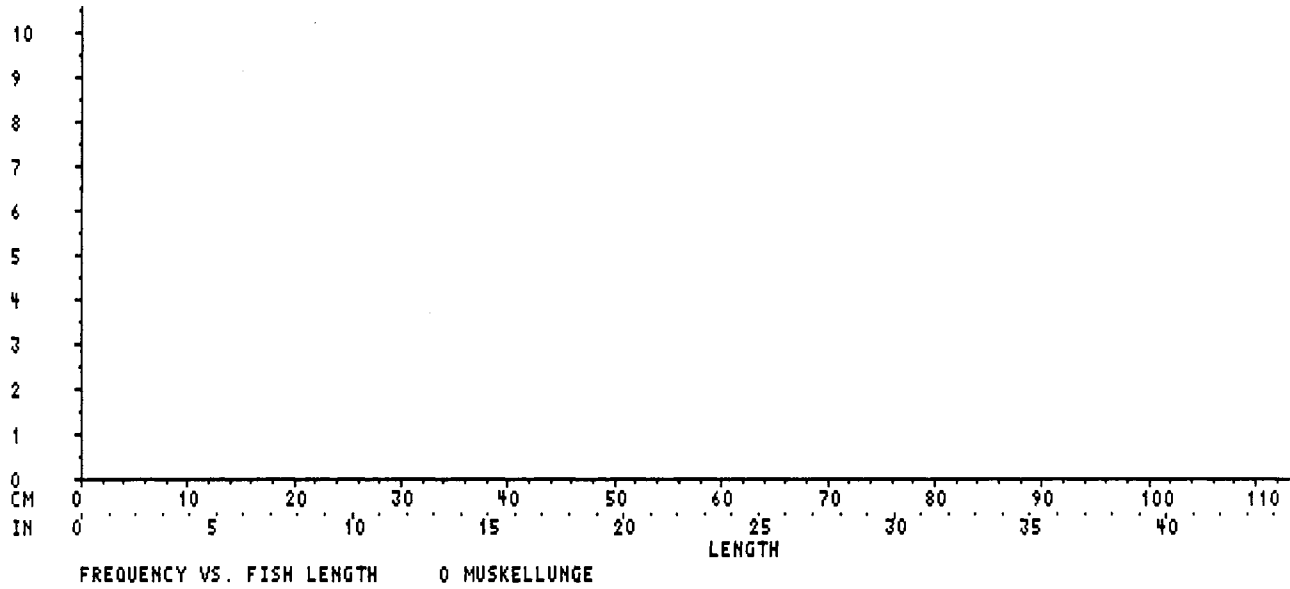


Figure 11. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of muskellunge harvested by all anglers.

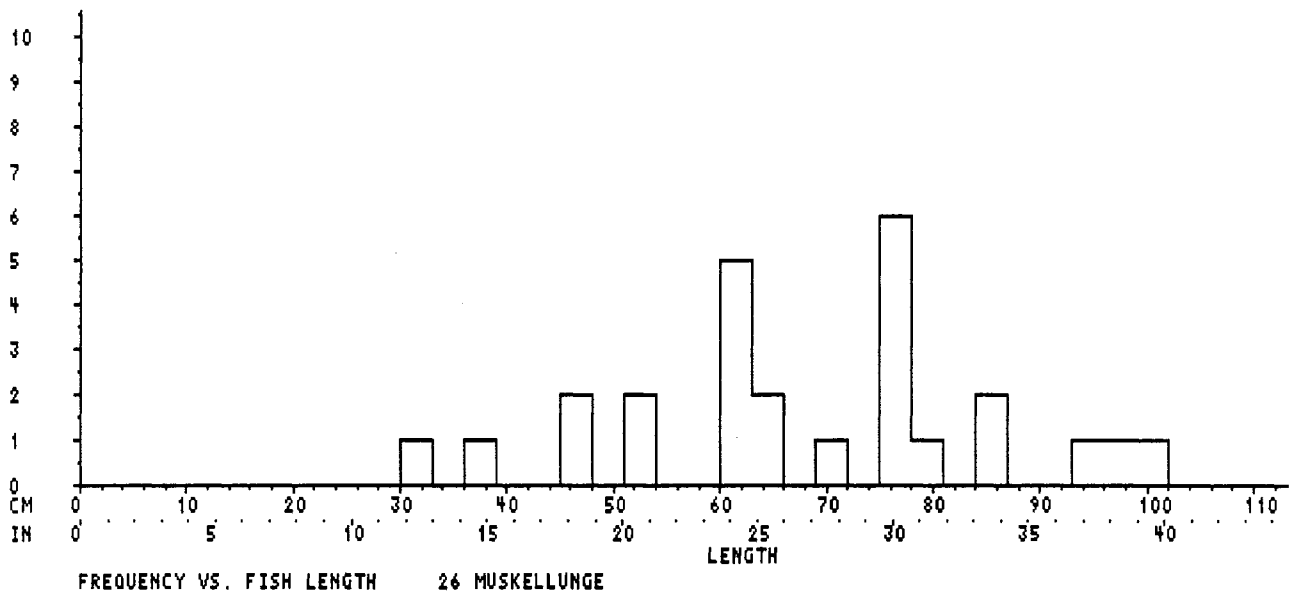


Figure 12. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of muskellunge released by all anglers.

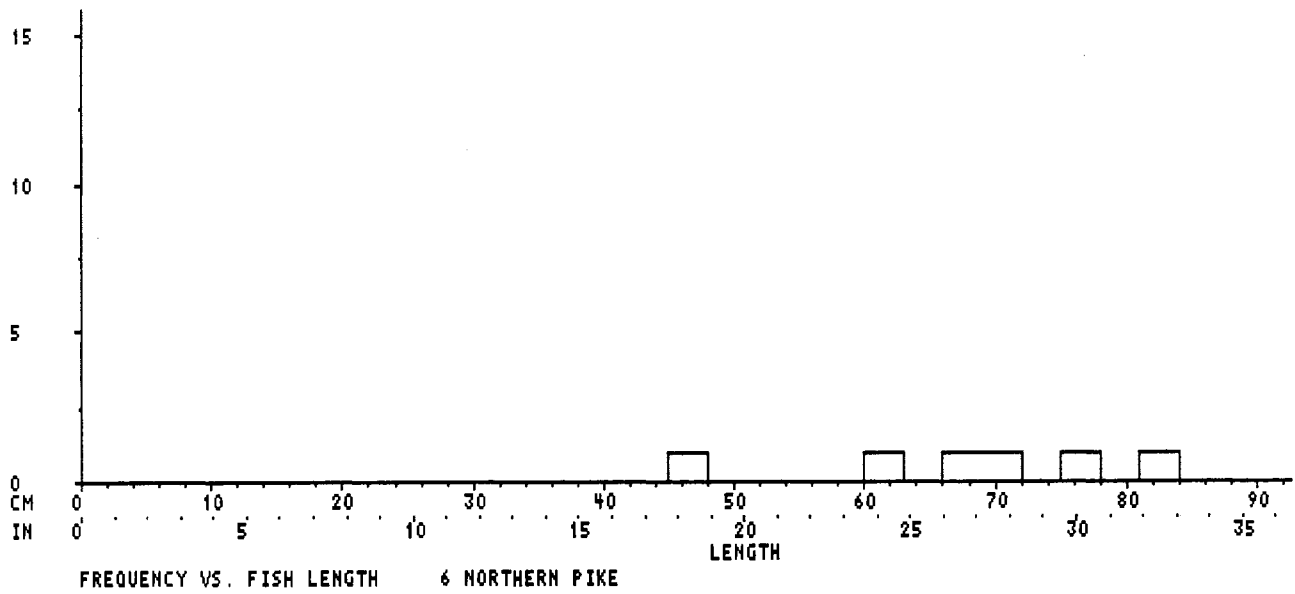


Figure 13. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of northern pike harvested by all anglers.

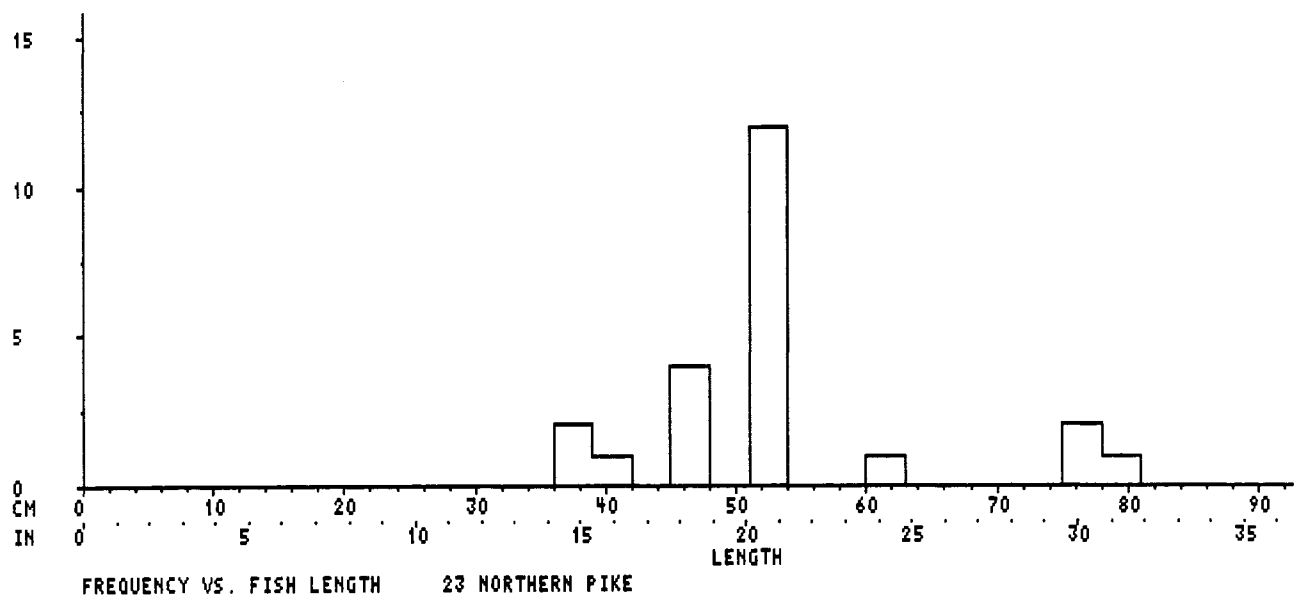


Figure 14. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of northern pike released by all anglers.

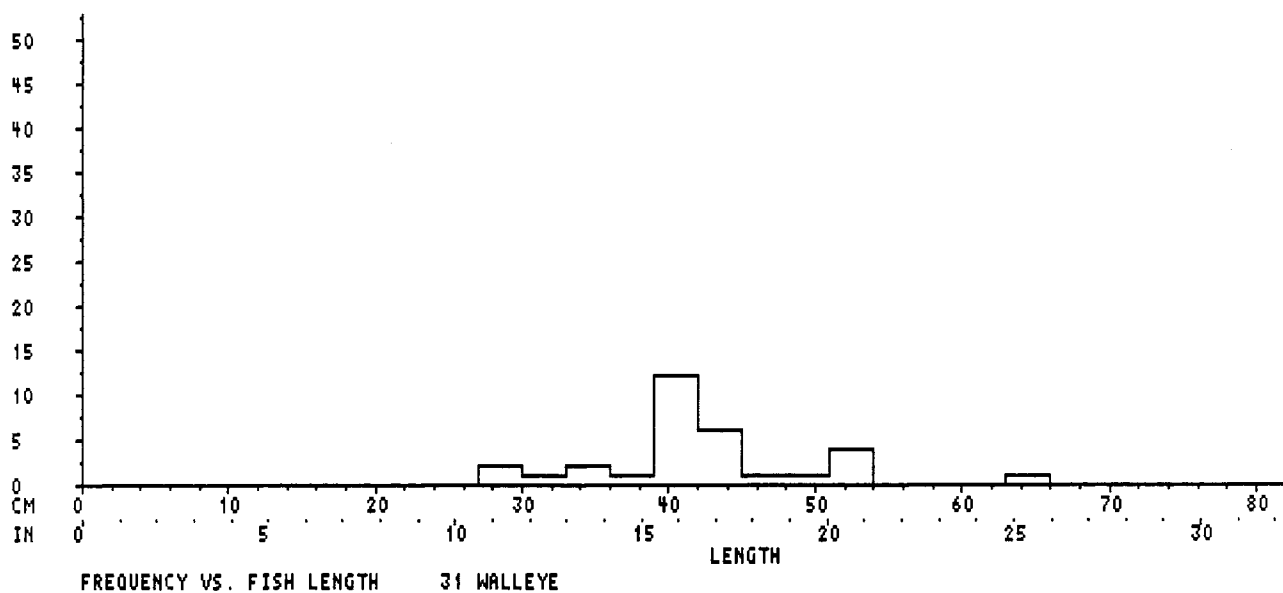


Figure 15. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of walleye harvested by all anglers.

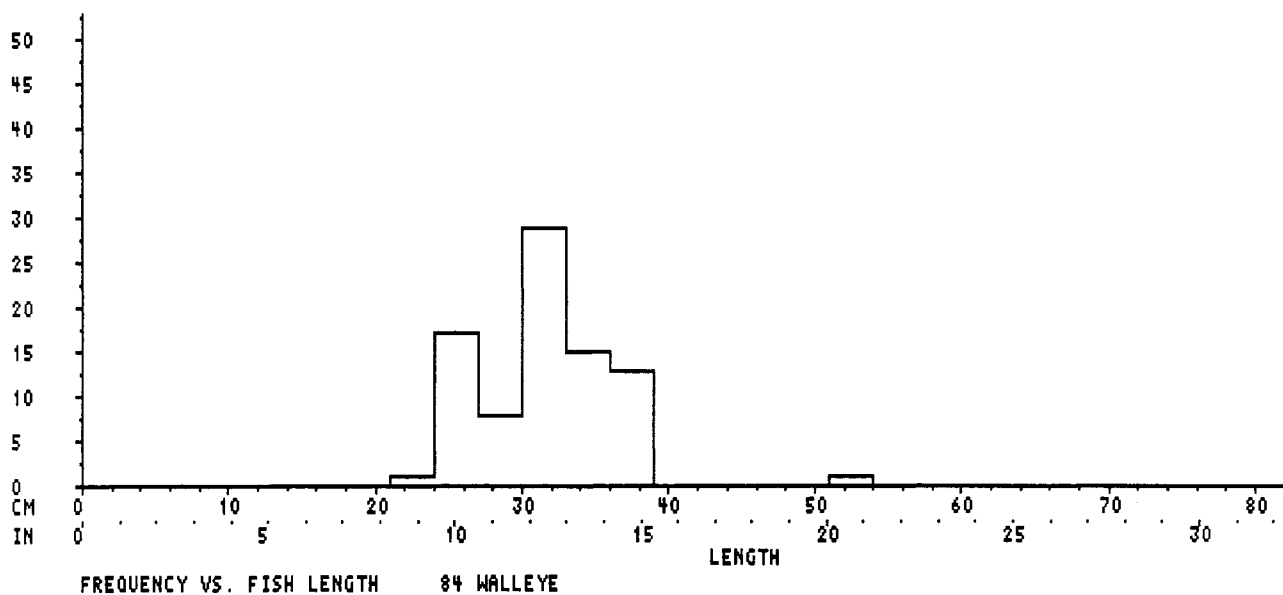


Figure 16. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of walleye released by all anglers.

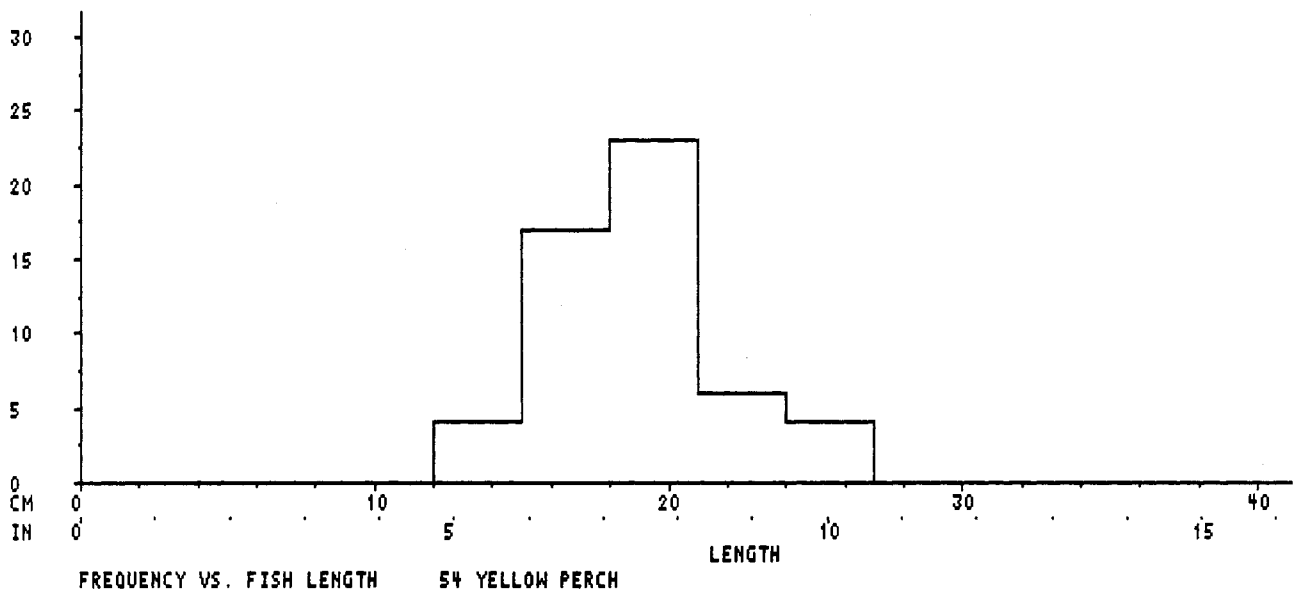


Figure 17. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow perch harvested by all anglers.

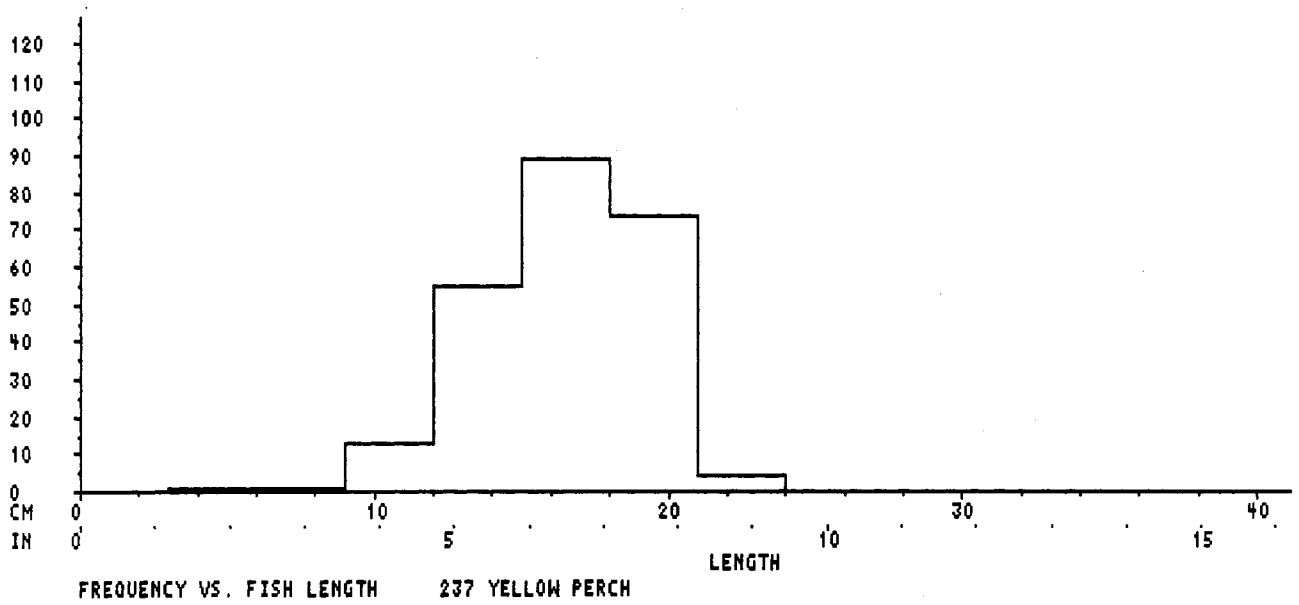


Figure 18. Sterling Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow perch released by all anglers. Note the difference in scale from Figure 17.

ILLINOIS NATURAL HISTORY SURVEY
 CENTER FOR AQUATIC ECOLOGY
 2000 CREEL SURVEY RESULTS

2000 WOODS LAKE
 27 ACRES
 REGION 3, DISTRICT 11

STRATIFICATION SUMMARY:

Day creel only.
 Results cover 03/15/2000 through 10/31/2000
 Year periods stratified.
 Fishing modes (boat vs. shore) stratified.
 Day types (weekday vs. weekend/holiday) stratified.
 Yearperiod 8 coalesced with yearperiod 9.

SAMPLING RATIO: 123/231 = 53.2%

NUMBER OF INTERVIEWS: 307

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	509	238-780 (53%)	19	9-29 (53%)	15%
	HOLIDAY	363	97-629 (73%)	13	4-23 (73%)	17%
	TOTAL	872	523-1220 (40%)	32	19-45 (40%)	15%
SHORE	WEEKDAY	1455	1083-1827 (26%)	54	40-68 (26%)	16%
	HOLIDAY	1727	1264-2190 (27%)	64	47-81 (27%)	23%
	TOTAL	3182	2609-3755 (18%)	118	97-140 (18%)	19%
BOAT & SHORE	WEEKDAY	1964	1511-2417 (23%)	73	56-90 (23%)	15%
	HOLIDAY	2090	1574-2605 (25%)	78	59-97 (25%)	22%
	TOTAL	4054	3383-4725 (17%)	151	126-176 (17%)	19%

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

# HARVESTED	95% CI		#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
1036	703-1370	(32%)	.222	.144-.300 (35%)	95.19	38.52	All species
			****	NOT RECORDED	****		Black crappie
116	0-241	(108%)	.014	.000-.029 (114%)	10.63	4.30	Bluegill
			****	NOT RECORDED	****		Carp
389	193-584	(50%)	.060	.023-.097 (62%)	35.73	14.46	Channel catfish
11	0-32	(207%)	.001	.000-.004 (207%)	0.97	0.39	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
483	284-682	(41%)	.143	.075-.211 (48%)	44.36	17.95	Largemouth bass
38	0-82	(116%)	.004	.000-.009 (97%)	3.50	1.42	White crappie
			****	NOT RECORDED	****		Yellow bullhead

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

KG HARVESTED	95% CI		KG/HOUR	95% CI	KG/HA	AVE KG	SPECIES
704	445-962	(37%)	.176	.105-.248 (40%)	64.64	0.679	All species
			****	NOT RECORDED	****		Black crappie
17	0-36	(113%)	.003	.000-.007 (147%)	1.54	0.145	Bluegill
			****	NOT RECORDED	****		Carp
212	96-327	(55%)	.031	.013-.048 (56%)	19.43	0.544	Channel catfish
2	0-6	(207%)	.000	.000-.001 (207%)	0.17	0.176	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
452	251-652	(44%)	.140	.072-.209 (49%)	41.50	0.936	Largemouth bass
22	0-47	(119%)	.002	.000-.004 (96%)	1.99	0.567	White crappie
			****	NOT RECORDED	****		Yellow bullhead

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

LB HARVESTED	95% CI		LB/HOUR	95% CI	LB/ACRE	AVE LB	SPECIES
1551	982-2121	(37%)	.389	.232-.546 (40%)	57.67	1.497	All species
			****	NOT RECORDED	****		Black crappie
37	0-79	(113%)	.006	.000-.015 (147%)	1.38	0.320	Bluegill
			****	NOT RECORDED	****		Carp
466	212-721	(55%)	.068	.030-.106 (56%)	17.34	1.199	Channel catfish
4	0-13	(207%)	.000	.000-.001 (207%)	0.15	0.388	Green sunfish
			****	NOT RECORDED	****		Gizzard shad
996	554-1438	(44%)	.310	.158-.461 (49%)	37.03	2.063	Largemouth bass
48	0-104	(119%)	.005	.000-.010 (96%)	1.77	1.250	White crappie
			****	NOT RECORDED	****		Yellow bullhead

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

# CAUGHT	95% CI	#/HOUR	95% CI	#/HA	#/ACRE	SPECIES
8674	6696-10652 (23%)	1.631	1.269-1.993 (22%)	796.76	322.44	All species
18	0-46 (155%)	.046	.000-.146 (216%)	1.66	0.67	Black crappie
2402	1759-3045 (27%)	.473	.328-.618 (31%)	220.61	89.28	Bluegill
16	0-32 (98%)	.002	.000-.004 (124%)	1.50	0.61	Carp
1600	1159-2040 (28%)	.264	.194-.333 (27%)	146.95	59.47	Channel catfish
212	56-367 (74%)	.033	.008-.057 (75%)	19.43	7.86	Green sunfish
40	0-100 (148%)	.003	.000-.008 (162%)	3.71	1.50	Gizzard shad
2073	1492-2654 (28%)	.549	.371-.727 (32%)	190.44	77.07	Largemouth bass
2287	586-3988 (74%)	.261	.033-.489 (87%)	210.08	85.02	White crappie
26	0-57 (119%)	.002	.000-.004 (120%)	2.37	0.96	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
1695	1288-2102 (24%)	.404	.294-.513 (27%)	155.71	0.195	All species
1	0-1 (127%)	.001	.000-.002 (142%)	0.05	0.030	Black crappie
359	247-472 (31%)	.083	.054-.112 (35%)	33.02	0.150	Bluegill
11	0-26 (137%)	.001	.000-.003 (157%)	1.02	0.682	Carp
362	215-508 (40%)	.055	.035-.074 (36%)	33.21	0.226	Channel catfish
26	8-45 (70%)	.005	.001-.008 (83%)	2.43	0.125	Green sunfish
1	0-1 (147%)	.000	.000-.000 (165%)	0.05	0.015	Gizzard shad
795	519-1070 (35%)	.243	.150-.336 (38%)	73.00	0.383	Largemouth bass
132	68-196 (49%)	.016	.008-.024 (50%)	12.11	0.058	White crappie
9	0-23 (154%)	.001	.000-.002 (165%)	0.81	0.343	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
3737	2840-4635 (24%)	.890	.649-1.132 (27%)	138.93	0.431	All species
1	0-3 (127%)	.002	.000-.004 (142%)	0.04	0.066	Black crappie
792	544-1041 (31%)	.184	.120-.248 (35%)	29.46	0.330	Bluegill
25	0-58 (137%)	.002	.000-.006 (157%)	0.91	1.503	Carp
797	475-1119 (40%)	.120	.077-.164 (36%)	29.63	0.498	Channel catfish
58	17-99 (70%)	.010	.002-.018 (83%)	2.17	0.276	Green sunfish
1	0-3 (147%)	.000	.000-.000 (165%)	0.05	0.033	Gizzard shad
1752	1145-2359 (35%)	.536	.330-.741 (38%)	65.13	0.845	Largemouth bass
291	149-432 (49%)	.034	.017-.052 (50%)	10.81	0.127	White crappie
20	0-50 (154%)	.001	.000-.004 (165%)	0.73	0.755	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	1.7	1.4-2.0 (18%)	0.8	5.2	30
SHORE	1.2	1.1-1.3 (11%)	0.5	3.5	103
BOAT & SHORE	1.3	1.2-1.4 (10%)	0.5	5.2	133
MILES TRAVELED					
SUCCESS RATING (1-10)	5.4	5.1-5.7 (5%)	1	10	285

*5 samples were from split interviews of completed trips.

44.0% of all 302 interviews were completed trips.

ILLEGAL HARVEST: Clerk noted 5 out of 302 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	25	26	4	1						
SHORE INTERVIEWS	61	104	51	17	10	1	1		1	

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

178 (58.9%)	ANY	All species
3 (1.0%)	BLG	Bluegill
7 (2.3%)	CAT	Unidentified catfish
44 (14.6%)	CCF	Channel catfish
9 (3.0%)	CRP	Crappie spp.
52 (17.2%)	LMB	Largemouth bass
9 (3.0%)	WHC	White crappie

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

# OF FISH:	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
Black crappie																
HARVEST	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	274	3	-	-	-	-	1	-	-	-	-	-	-	-	-	-
Bluegill																
HARVEST	276	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-
RELEASE	176	62	23	11	1	3	-	-	-	2	-	-	-	-	-	-
Carp																
HARVEST	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	272	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Channel catfish																
HARVEST	252	24	-	-	-	1	1	-	-	-	-	-	-	-	-	-
RELEASE	201	55	15	2	2	3	-	-	-	-	-	-	-	-	-	-
Green sunfish																
HARVEST	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	265	10	3	-	-	-	-	-	-	-	-	-	-	-	-	-
Largemouth bass																
HARVEST	256	14	6	2	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	199	40	22	9	6	2	-	-	-	-	-	-	-	-	-	-
White crappie																
HARVEST	274	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	220	26	18	4	-	4	-	1	2	-	-	-	-	2	-	1
Yellow bullhead																
HARVEST	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RELEASE	273	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-

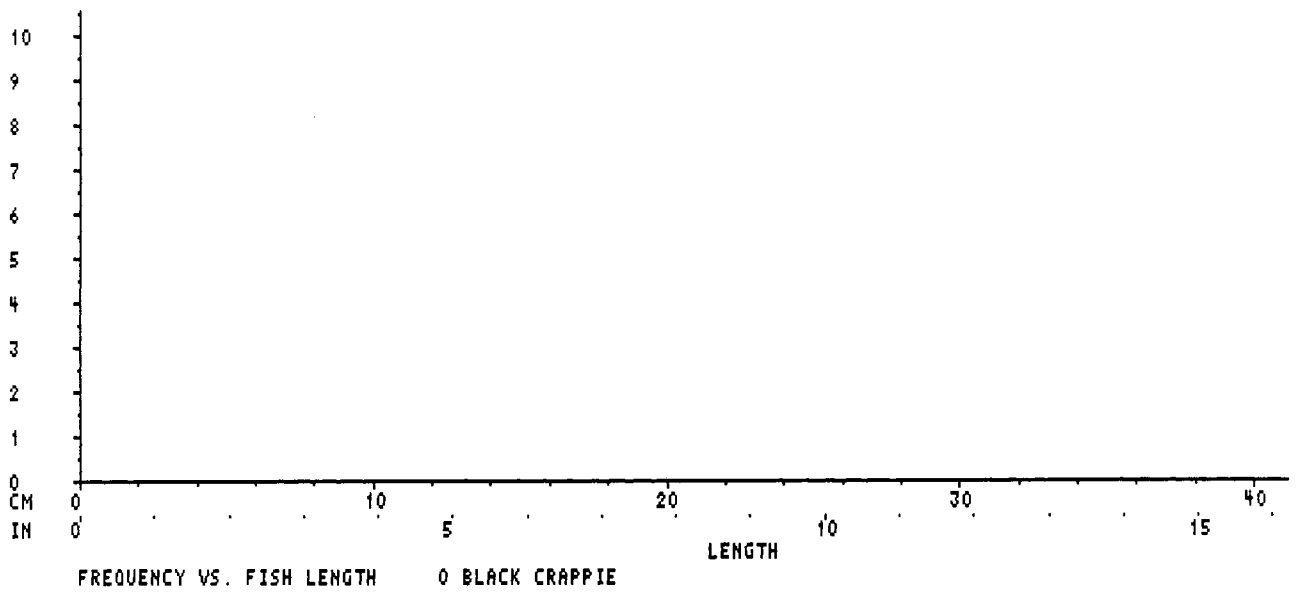


Figure 1. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie harvested by all anglers.

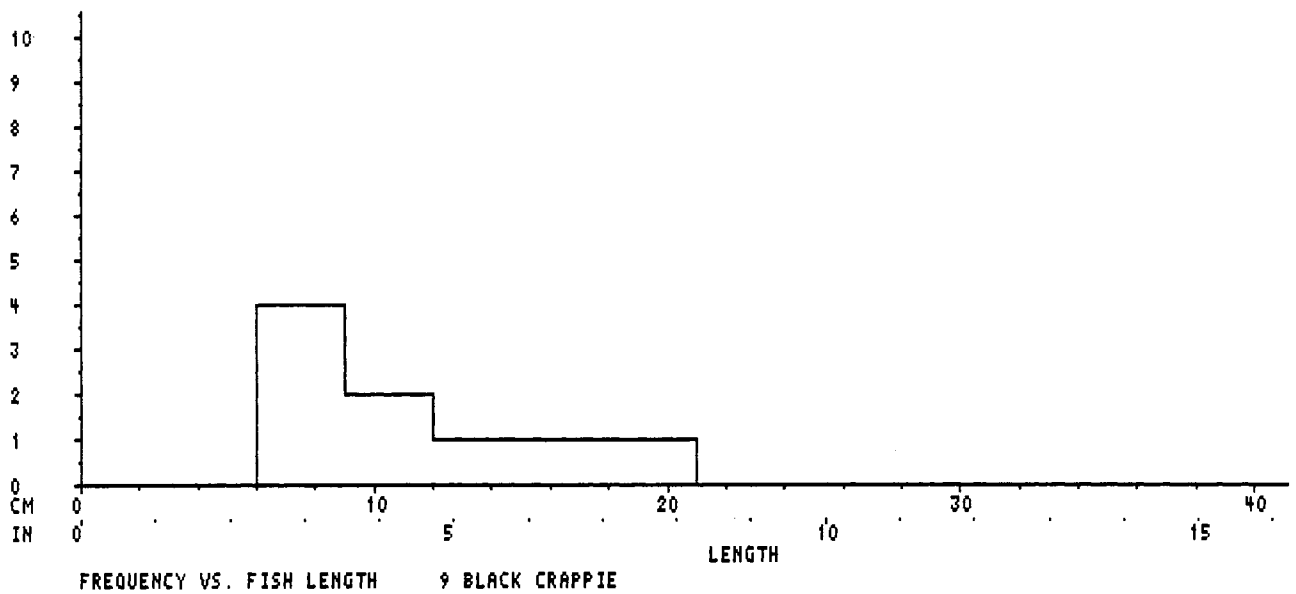


Figure 2. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of black crappie released by all anglers.

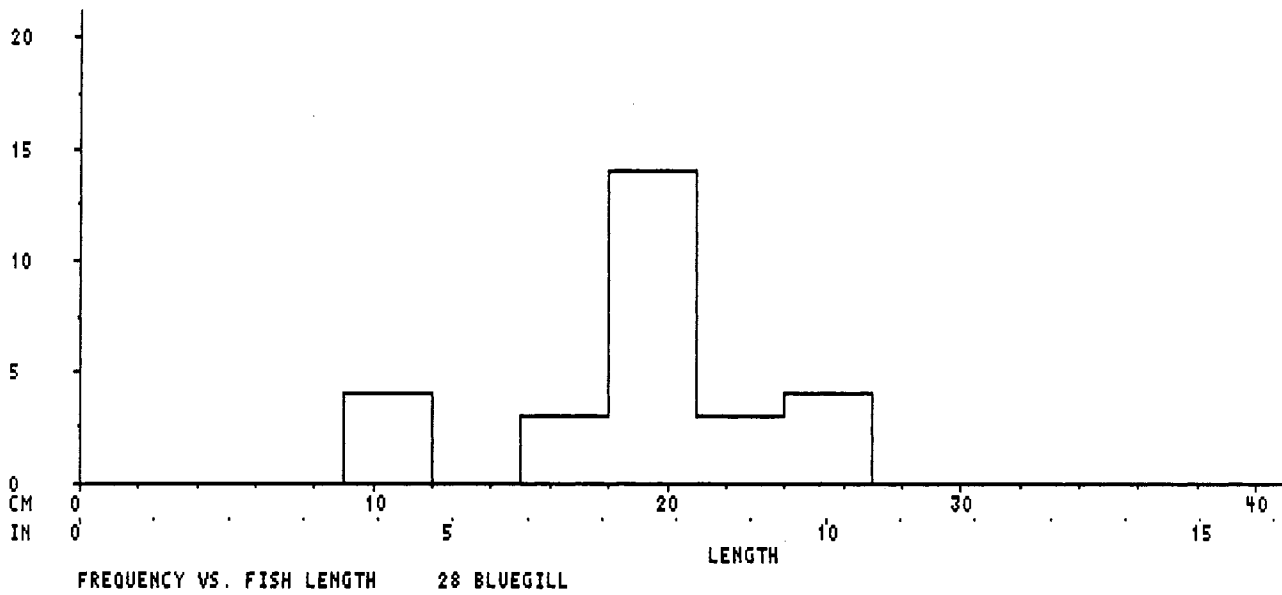


Figure 3. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill harvested by all anglers.

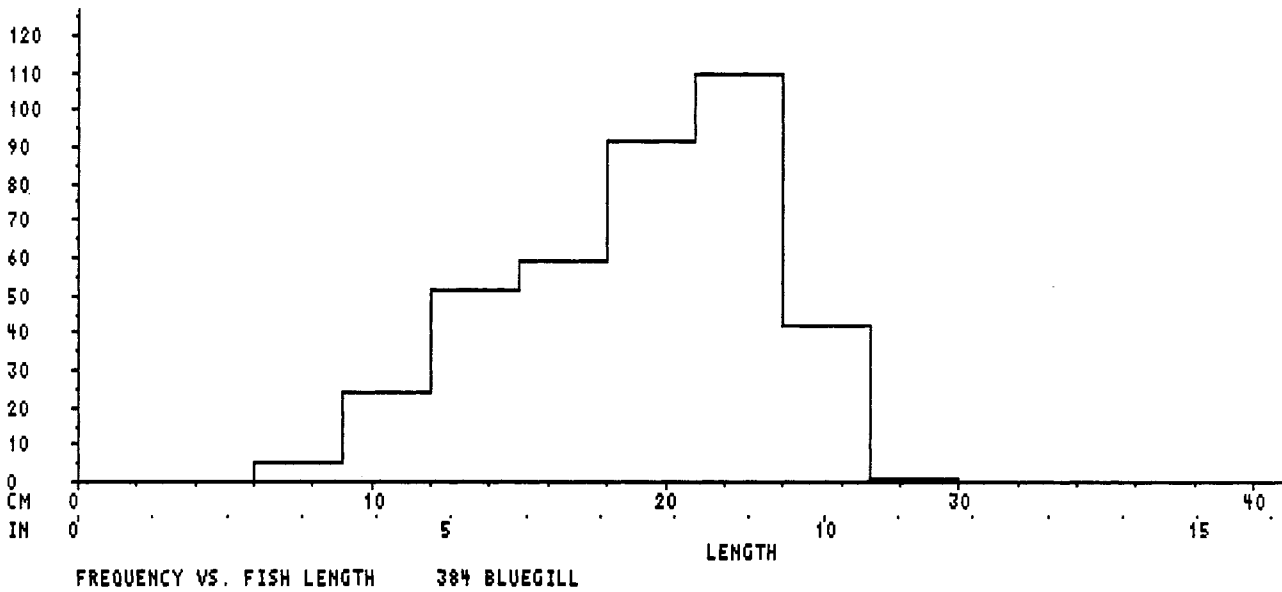


Figure 4. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of bluegill released by all anglers. Note the difference in scale from Figure 3.

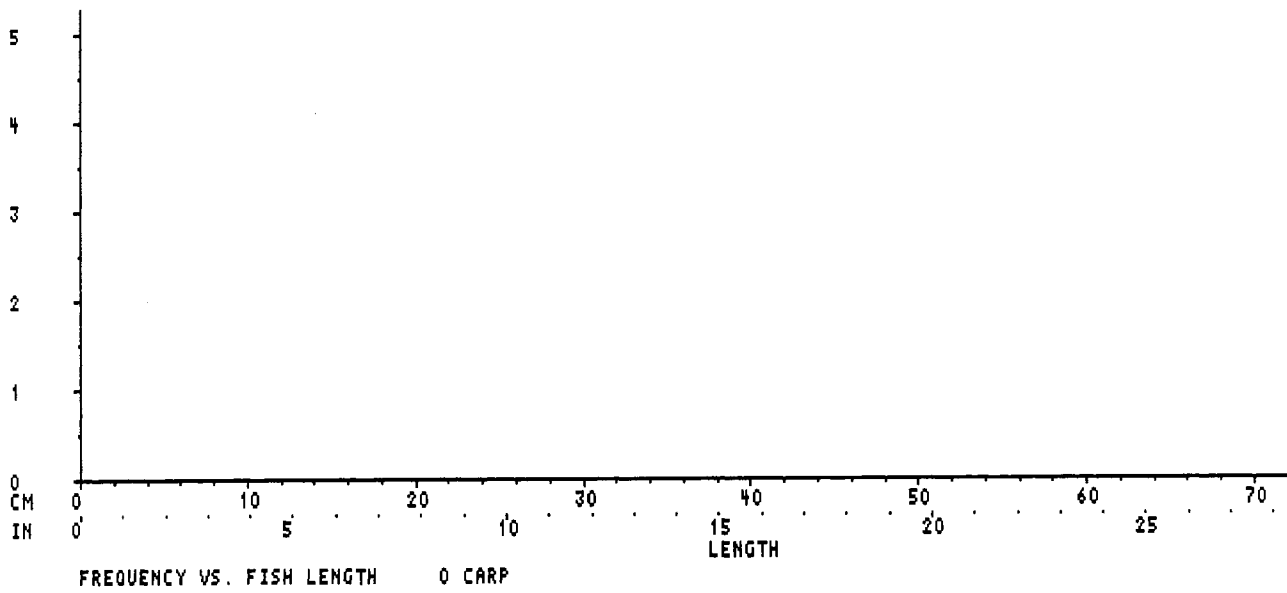


Figure 5. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp harvested by all anglers.

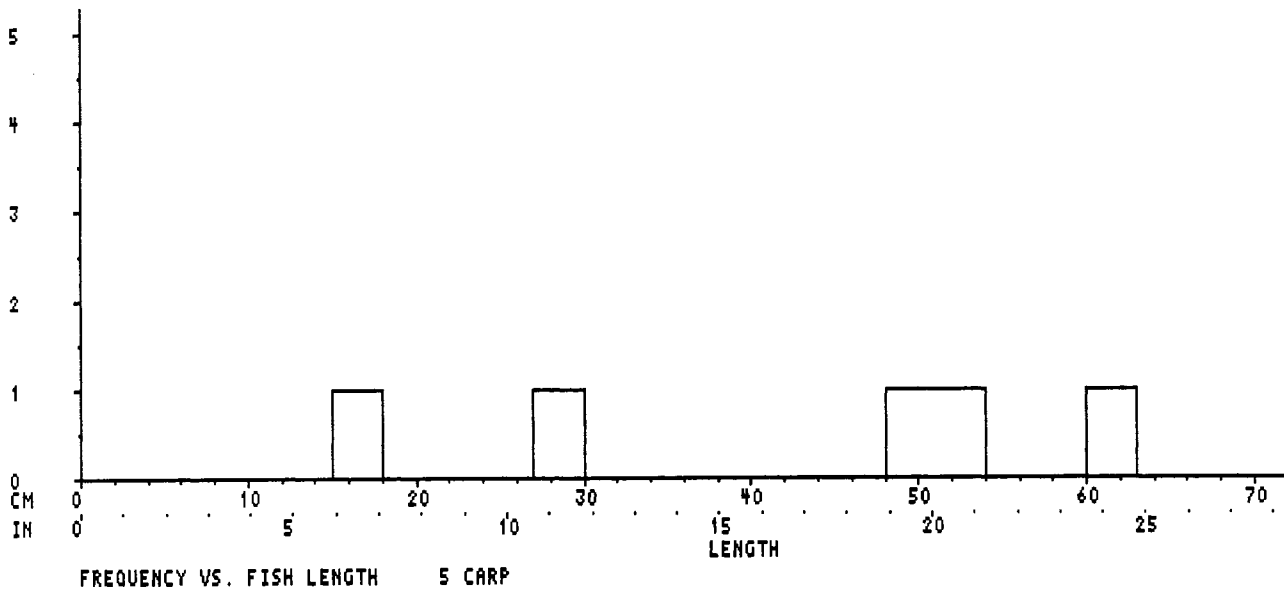


Figure 6. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of carp released by all anglers.

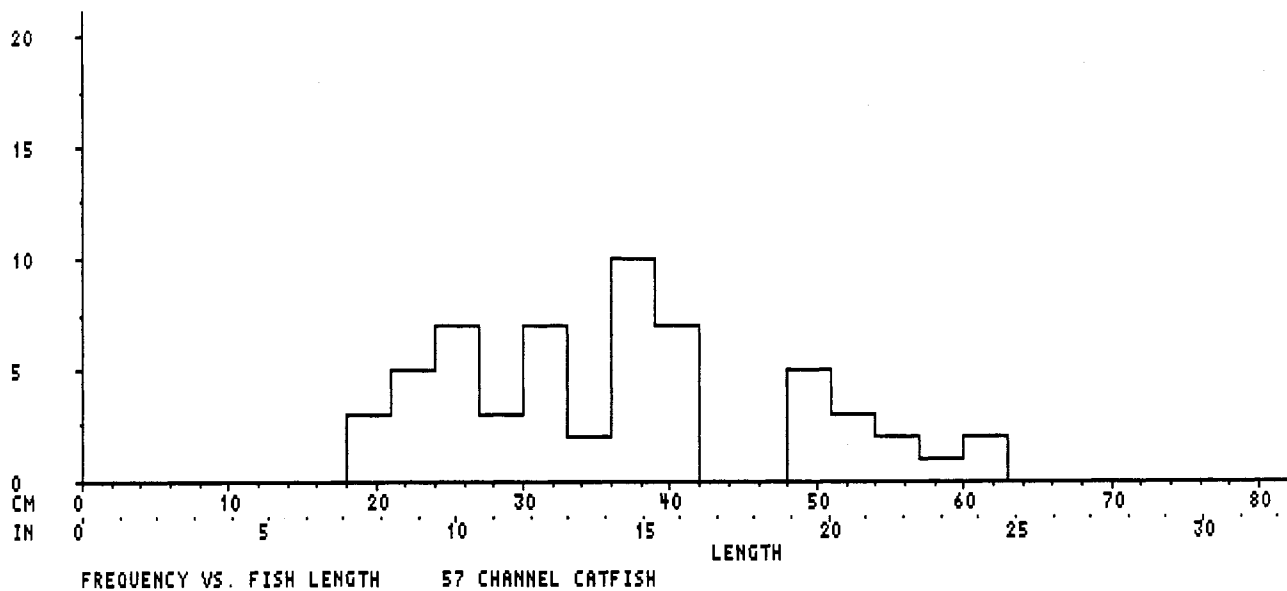


Figure 7. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish harvested by all anglers.

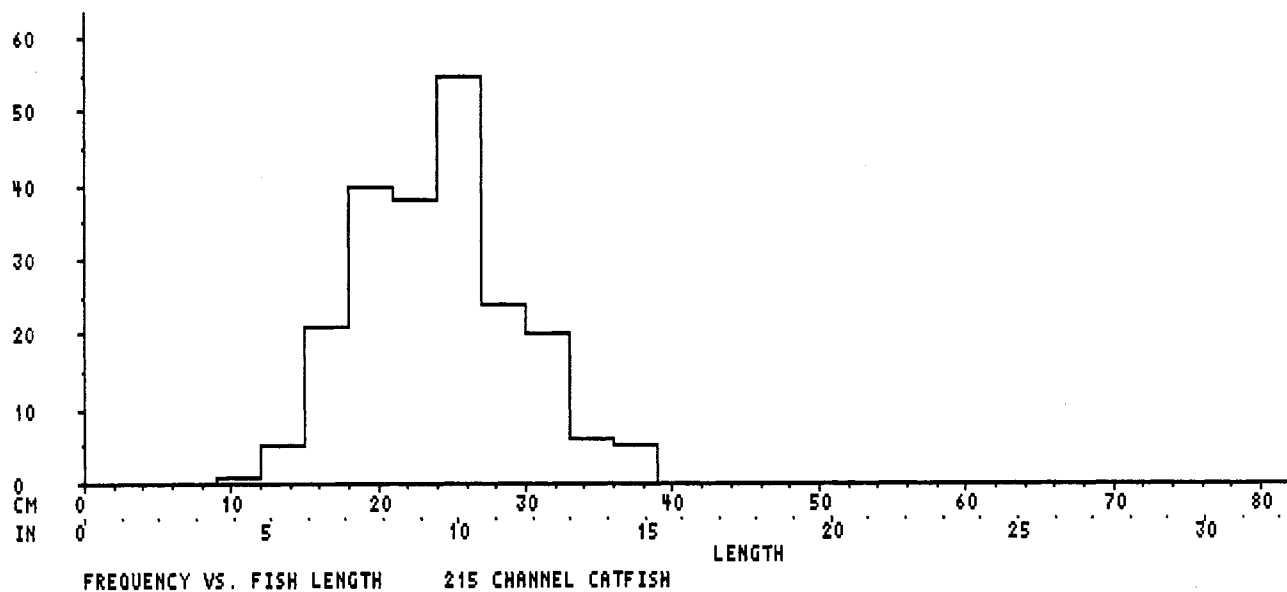


Figure 8. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of channel catfish released by all anglers. Note the difference in scale from Figure 7.

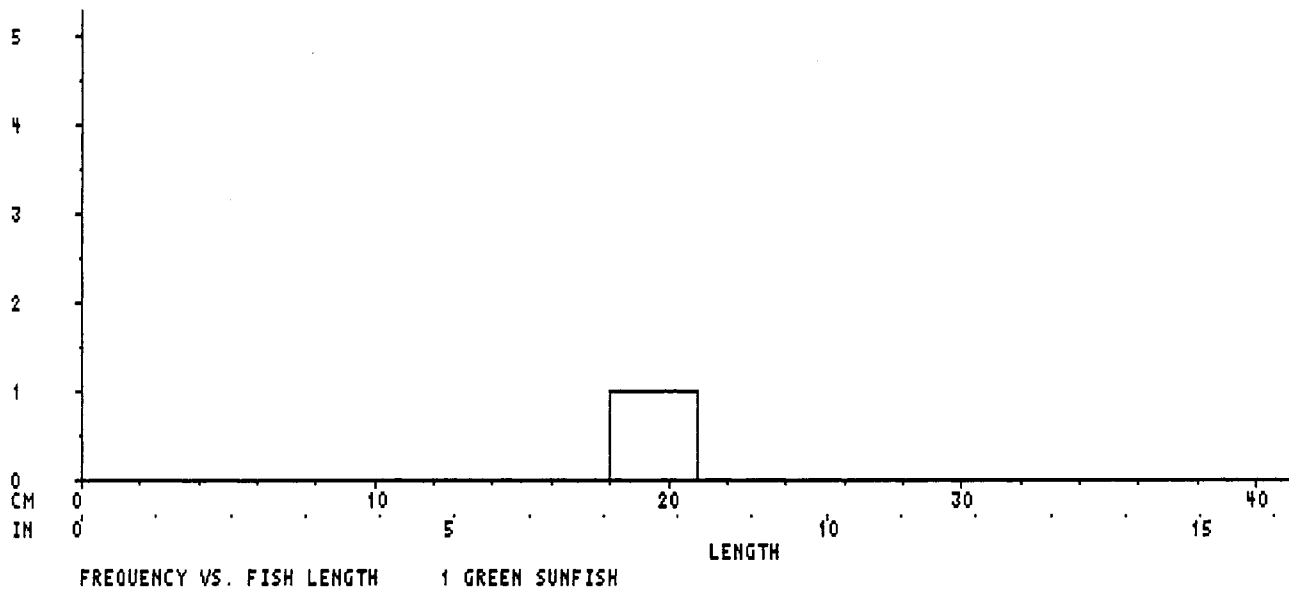


Figure 9. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of green sunfish harvested by all anglers.

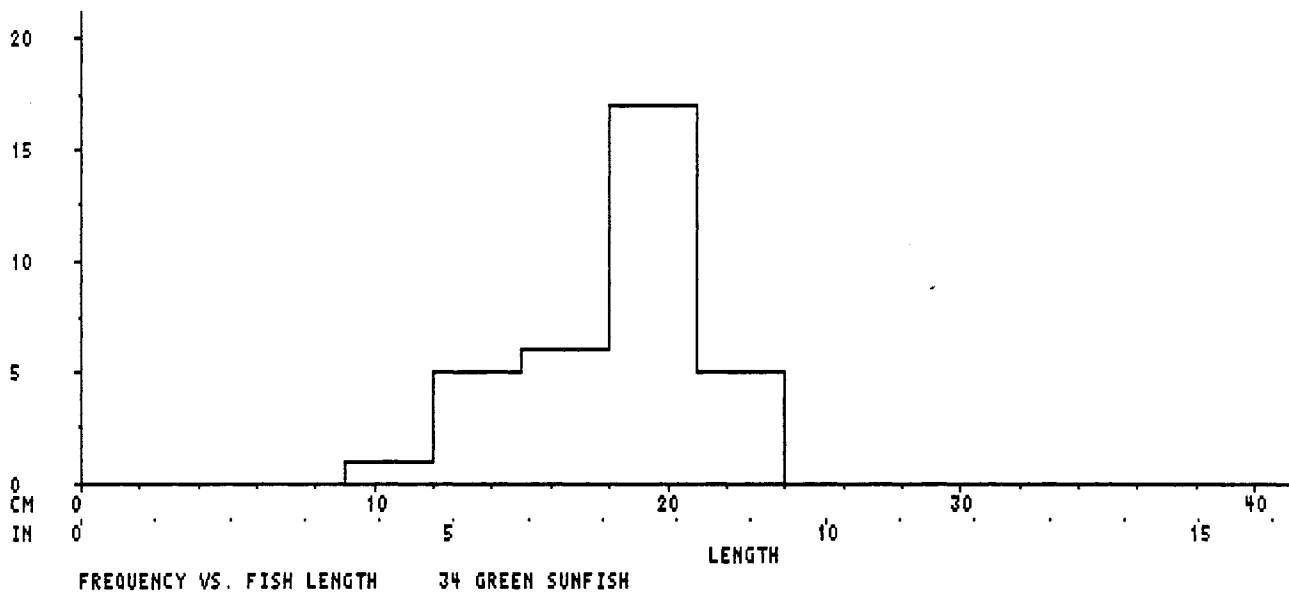


Figure 10. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of green sunfish released by all anglers. Note the difference in scale from Figure 9.

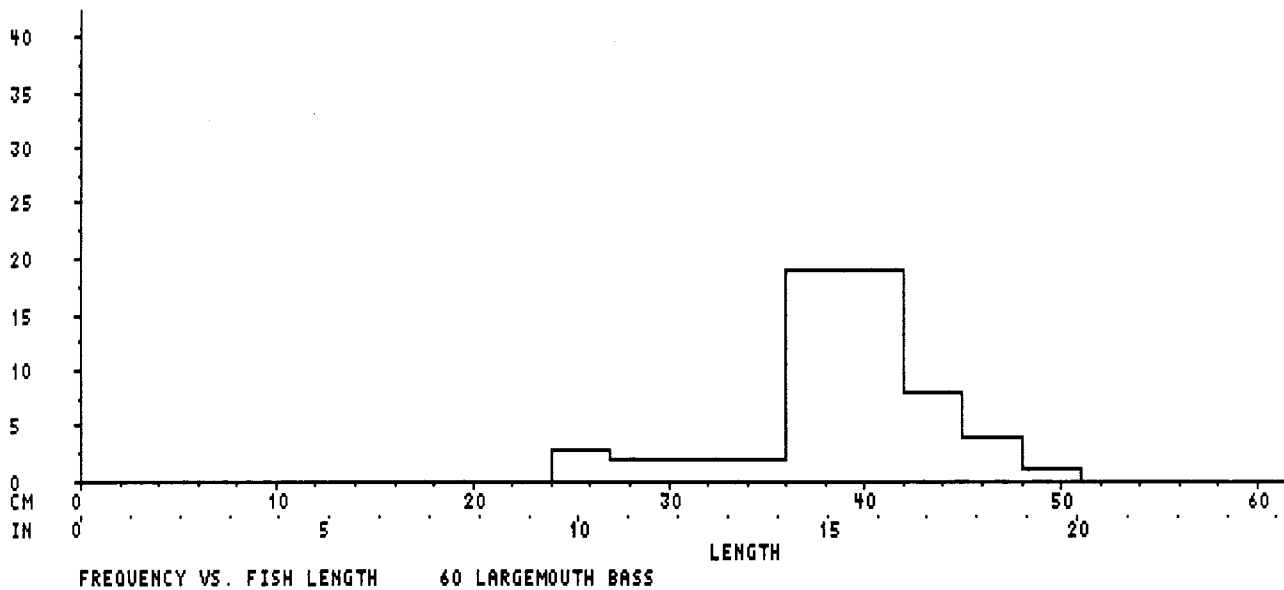


Figure 11. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass harvested by all anglers.

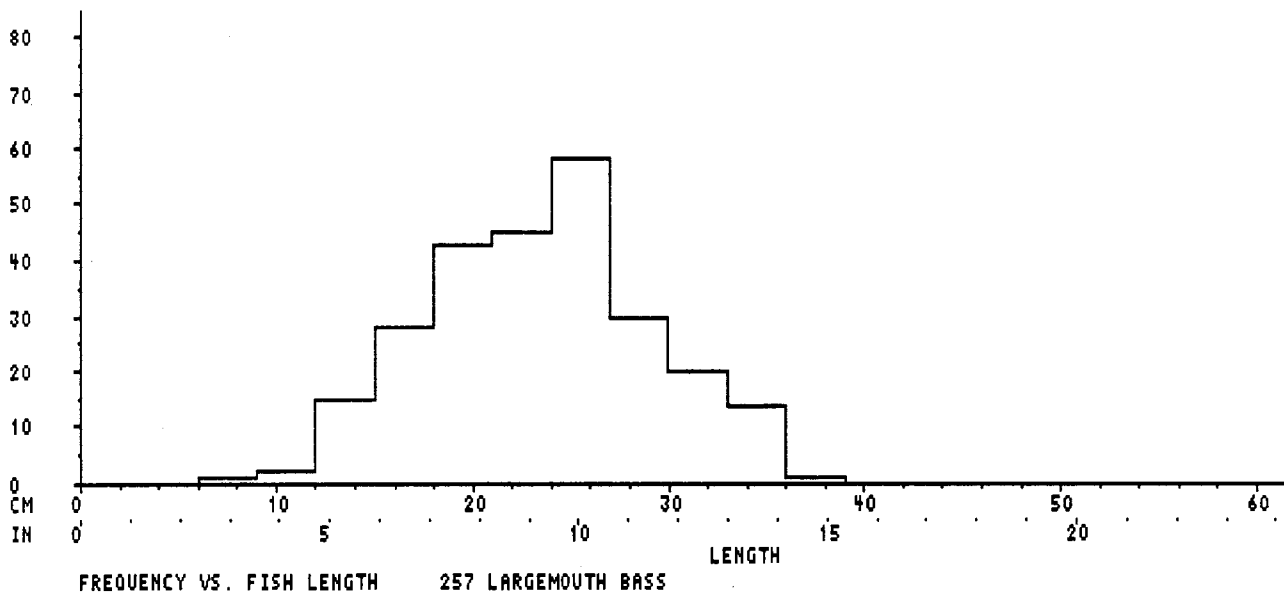


Figure 12. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of largemouth bass released by all anglers. Note the difference in scale from Figure 11.

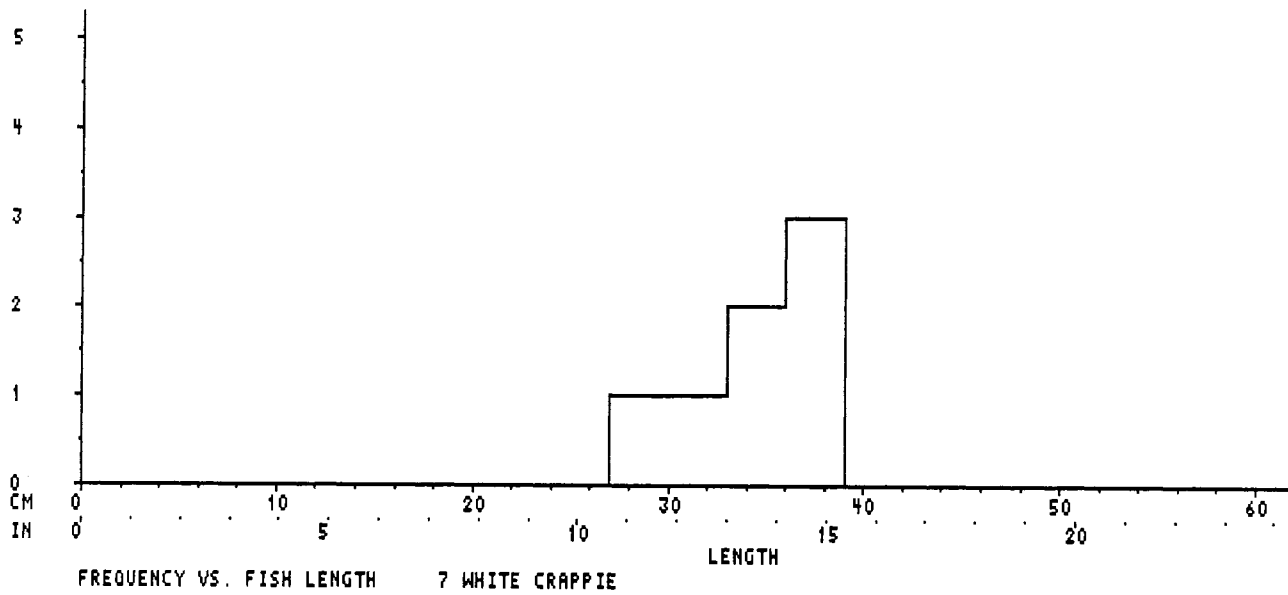


Figure 13. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie harvested by all anglers.

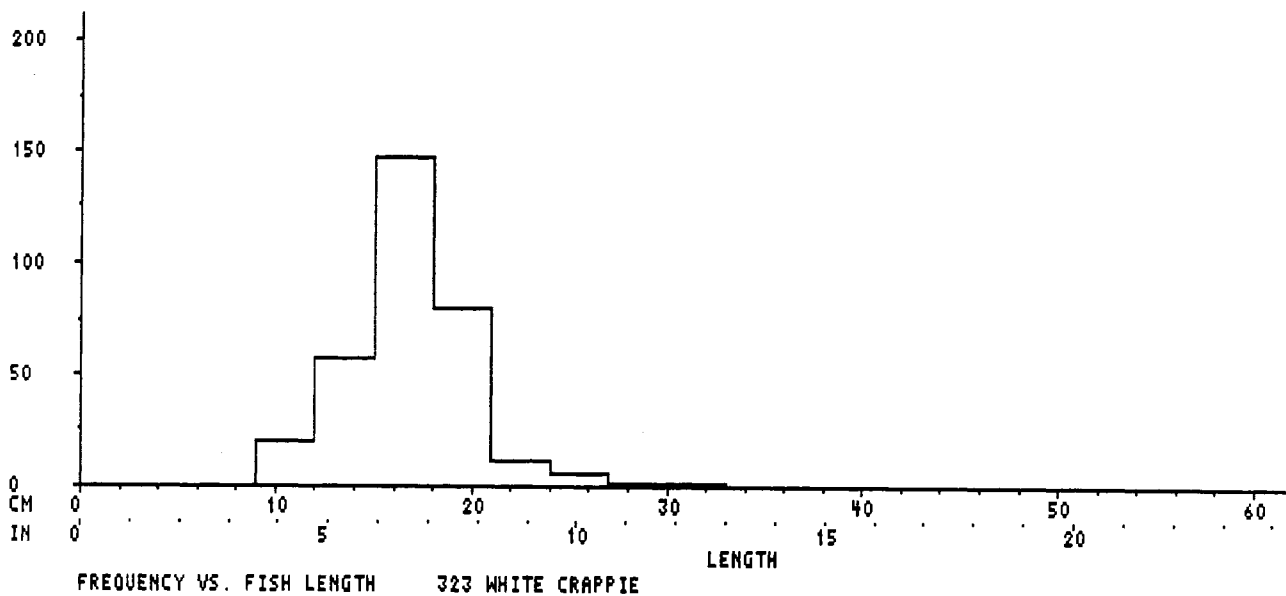


Figure 14. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of white crappie released by all anglers. Note the difference in scale from Figure 13.

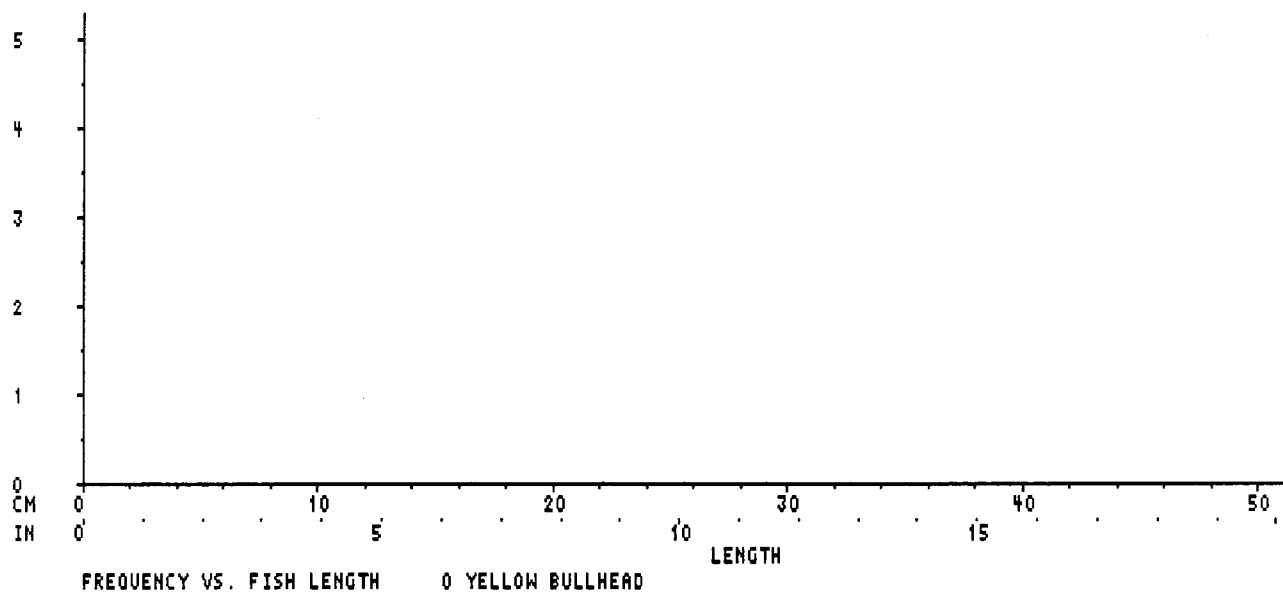


Figure 15. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead harvested by all anglers.

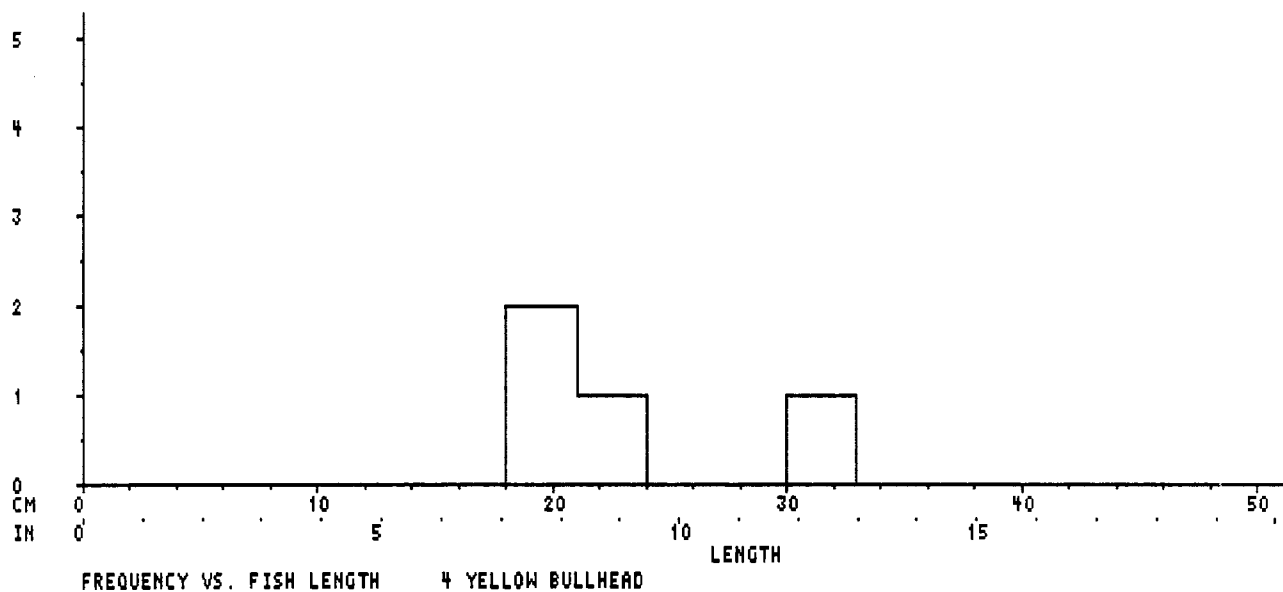


Figure 16. Woods Lake 2000 day creel 3/15 through 10/31. Length-frequency histogram of yellow bullhead released by all anglers.

