



## 2000 Annual Status Report: A Summary of Fish Data in Six Reaches of the Upper Mississippi River System

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## Preface

This report is a product of the [Long Term Resource Monitoring Program](#) (LTRMP) for the [Upper Mississippi River System](#). The LTRMP was authorized under the Water Resources Development Act of 1986 (Public Law 99-662) as an element of the U.S. Army Corps of Engineers' [Environmental Management Program](#). The LTRMP is being implemented by the [Upper Midwest Environmental Sciences Center](#), a U.S. Geological Survey science center, in cooperation with the five Upper Mississippi River System (UMRS) States of Illinois, Iowa, Minnesota, Missouri, and Wisconsin. The U.S. Army Corps of Engineers provides guidance and has overall Program responsibility. The mode of operation and respective roles of the agencies are outlined in a 1988 Memorandum of Agreement.

The UMRS encompasses the commercially navigable reaches of the Upper Mississippi River, as well as the Illinois River and navigable portions of the Kaskaskia, Black, St. Croix, and Minnesota Rivers. Congress has declared the UMRS to be both a nationally significant ecosystem and a nationally significant commercial navigation system. The mission of the LTRMP is to provide decision makers with information for maintaining the UMRS as a sustainable large river ecosystem given its multiple-use character. The long-term goals of the Program are to understand the system, determine resource trends and effects, develop management alternatives, manage information, and develop useful products.

Data (factual record) and information (usable interpretation of data) are the primary products of the LTRMP. Data on water quality, vegetation, aquatic macroinvertebrates, and fish are collected using a network of six field stations on the Upper Mississippi and Illinois Rivers. Analysis, interpretation, and the reporting of information are conducted at the six field stations and at the Upper Midwest Environmental Sciences Center, the operational center of the LTRMP. Informational products of the LTRMP include professional presentations, reports, and publications in the open and peer-reviewed scientific literature.

This document is an annual status report containing a synthesis of data from fish populations and communities in the Upper Mississippi River System. This report satisfies, Task 2.2.8.4, *Evaluate and Summarize Annual Results* under Goal 2, *Monitor Resource Change* as specified in the Operating Plan for the Long Term Resource Monitoring Program (U.S. Fish and Wildlife Service 1993). This report was developed with funding provided by the Long Term Resource Monitoring Program. The purposes of this annual synthesis report are to provide (1) a systemwide summary of data in standardized tables and figures and (2) initial identification and interpretation of observed spatial and temporal patterns. The primary data summarized in this report are available from the Upper Midwest Environmental Sciences Center.

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## Abstract

The [Long Term Resource Monitoring Program](#) (LTRMP) completed collections of fish from stratified random sampling and permanently fixed-site sampling in six study areas of the [Upper Mississippi River System](#). Collection methods included day and night electrofishing, hoop netting, fyke netting (two net sizes), seining, and bottom trawling in selected aquatic area classes. The six LTRMP study areas are Pools [4](#) (excluding Lake Pepin), [8](#), [13](#), and [26](#) of the Upper Mississippi River, an [Open River](#) (unimpounded) reach of the Mississippi River near Cape Girardeau, Missouri, and [La Grange Pool](#) of the Illinois River.

For each of the six LTRMP study areas, this report contains summaries by year of (1) sampling efforts for each combination of gear type and aquatic area class, (2) total catches of each species from each gear type, (3) mean catch-per-unit of effort statistics and standard errors for common species from each combination of aquatic area class and selected gear type, and (4) length distributions of common species from selected gear types.

**Key words:** annual report, fish, LTRMP, Mississippi River

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## Introduction

This report summarizes key features of fish populations and communities from samples collected by [field stations](#) of the [Long Term Resource Monitoring Program](#) (LTRMP) from the [Upper Mississippi River System](#) (UMRS). The fisheries component of the LTRMP is charged, in part, with monitoring and reporting trends in the status of selected fish populations and fish communities of the UMRS (U.S. Fish and Wildlife Service 1993). Intended as a data summary, this report contains only minimal descriptive syntheses. The LTRMP is required to produce trend reports at 5-year intervals that contain quantitative analyses and systemic syntheses of temporal changes. Further, the LTRMP uses these monitoring data in analyses to address specific issues of concern to LTRMP partners; these analyses are reported in special reports and in the open scientific literature.

Fish are the primary biotic object of recreational and commercial use on the UMRS. During 1982, UMRS fisheries provided more than 8.5 million activity days of sportfishing that generated more than \$150 million in direct expenditures (Fremling et al. 1989). Commercial fisheries of the UMRS were valued at more than \$2.4 million in 1987 (Upper Mississippi River Conservation Committee 1989). Adverse trends in fisheries of the UMRS would have detrimental effects on recreation and the regional economy. Therefore, it is important to detect any adverse trends as they occur so that remedial actions can be considered.

Monitoring of and research on fish are also important because fish often affect other ecosystem elements. Although documentation of the effects of fish on other biota is derived primarily from lakes and reservoirs (Northcote 1988) and traditional thought maintains that the dynamics of river biota are influenced primarily by abiotic factors, recent evidence shows that the dynamics of fish assemblages in temperate rivers are regulated in part by biotic factors (Welcomme et al. 1989). Fish may exert influences on other biota in riverine ecosystems and may, therefore, be of broad ecological importance. For example, evidence shows that common carp (*Cyprinus carpio*), an abundant species in the UMRS, may depress or even eliminate macrophytes either through uprooting or disturbance of substrate (Cahn 1929; Macrae 1979). Effects of fish

on benthic macroinvertebrates are well known (Northcote 1988). Therefore, trends in abundance of fish may be crucial in explaining trends in abundance of other riverine biota.

Resource monitoring is an important component of long-term ecological research on processes governing large-scale ecosystems. It is nearly impossible to perform experimental manipulations of the UMRS on large spatial scales and to incorporate replication. Long-term data from standardized sampling programs that span natural or anthropogenic disturbances are the only means for gaining an understanding of large-scale processes governing large river systems (Sparks et al. 1990). Further, the LTRMP fisheries component will provide support for the formulation and investigation of research hypotheses concerning smaller scales using focused experimentation. Therefore, the combination of routine monitoring coupled with more intensive investigation of consequences of disturbances and experimentation at reduced spatial and temporal scales is the only available means for better understanding the UMRS and for identifying viable management alternatives.

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## Study areas for Long Term Resource Monitoring fish sampling.

- [Pool 4](#)
- [Pool 8](#)
- [Pool 13](#)
- [Pool 26](#)
- [Open River Reach](#)
- [La Grange Pool](#)

**Navigation** [Pool 4](#) is 73.3 km (44 river miles) long and includes 14,700 ha (36,300 acres) of aquatic habitat. It is located between Lock and Dam 3 (above Red Wing, Minnesota) and Lock and Dam 4 (Alma, Wisconsin). Major tributaries include the Cannon and Vermillion Rivers on the Minnesota side and the much larger Chippewa River on the Wisconsin side. Lake Pepin, a riverine lake created by the Chippewa River delta, is located in the middle of Pool 4. The location of Lake Pepin divides the rest of the pool into upper Pool 4 and lower Pool 4. The smaller backwaters of upper Pool 4 have been degraded by sedimentation, whereas the larger backwaters of lower Pool 4 are much better habitat for vegetation.



**Navigation Pool 8** is 38.8 km (23.3 river miles) long and is bounded by Lock and Dam 7 (Dresbach, Minnesota) to the north and Lock and Dam 8 (Genoa, Wisconsin) to the south. It encompasses 9,000 ha (22,100 acres) of aquatic habitat. Major tributaries include the Black, Root, and La Crosse Rivers. The upper section of Pool 8 has high bank islands adjacent to the main channel, deep secondary channels, and backwater sloughs. The middle section contains low islands, braided channels, and small backwater sloughs. The lower section is a large open expanse of water.



**Navigation Pool 13** is 52.1 km (34.2 river miles) in length and is bounded by Lock and Dam 12 (Bellevue, Iowa) to the north and Lock and Dam 13 (Fulton, Illinois) to the south. It encompasses 11,400 ha (28,100 acres) of aquatic habitat. Similar to pools upstream, Pool 13 contains many high bank islands adjacent to the main channel in the upper section, braided backwater channels and sloughs in the middle section, and a large open lake-like area in the lower section of the pool. Major tributaries include the Apple and Plum Rivers on the Illinois side and Maquoketa and Elk Rivers on the Iowa side.



## Navigation **Pool 26** study

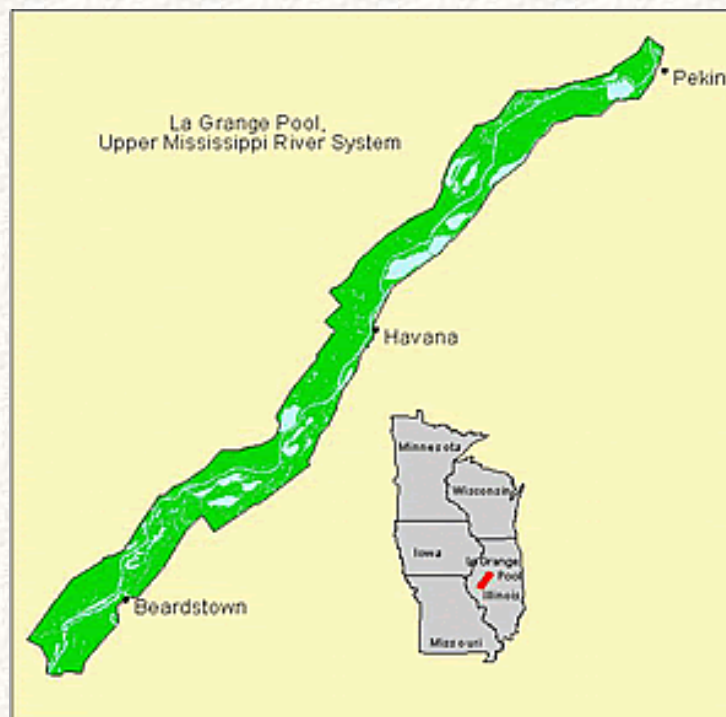
area includes water bodies along the Upper Mississippi River from Lock and Dam 25 (Winfield, Missouri) to Lock and Dam 26 (Alton, Illinois) and the lower Illinois River from its confluence with the Mississippi River north to Illinois River mile 12. This reach of the two rivers is bordered by high bluffs on the Illinois side and low elevation floodplain on the Missouri side. The reach encompasses 9,500 ha (23,700 acres) of aquatic habitat. Presently, most of the backwaters of the lower Illinois River are isolated from the river by low levees so as to decrease sedimentation and allow management for waterfowl. Likewise, many of the secondary channels of the Mississippi River are isolated from the river on the upstream side to create backwaters and to reduce sedimentation.



The **Open River Reach** is 84 km (52 river miles) long. The study reach has approximately 7,241 ha (17,893 acres) of aquatic habitat in the form of open water, sand and mud flats, and swamps and marsh. The floodplain is extensively disconnected from the mainstem river by levees. Many of the islands are now joined to the mainland and most side channels contain closing structures and become disconnected from the mainstem at moderately low flows. This river reach is characterized by turbid water, high water velocities, and sand substrate; thus, the aquatic communities are dominated by more obligate riverine species than the pooled portion of the Upper Mississippi River. Major tributaries to the Open River Reach are the Little River Diversion Channel in Missouri and the Big Muddy Rivers and Cache River Diversion Channel in Illinois.



**La Grange Pool** on the Illinois River is about 130 km (80 river miles) long and encompasses 10,750 ha (26,500 acres) of aquatic habitat. It is bounded by Peoria Lock and Dam to the north and La Grange Lock and Dam to the south. This reach has the highest proportion of backwaters, except for Pool 4, but these backwaters are highly degraded by excessive sedimentation over the last 150 years. Many backwaters are isolated by low levees to enhance waterfowl habitat management. Major tributaries include the Sangmon, Mackinaw, and LaMoine Rivers.



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## Methods

### *Sampling Methods*

The Long Term Resource Monitoring Program's (LTRMP) fish monitoring design and sampling protocols, including historical changes, are given in Gutreuter et al. ([1995](#)). Readers requiring detailed descriptions should refer to that report. An abbreviated description of the LTRMP design and protocols follows; a list of common and scientific names of fish used in this report is found in [Table 1](#). As water levels are often suspected of affecting fish populations and community stratum, hydrographs are provided for each study area and each year sampled.

We summarize the annual increment of fish data obtained by the LTRMP from stratified random and fixed-site sampling by year. The LTRMP converted to a stratified, random fish sampling design in 1993, augmented with limited sampling at a few permanently fixed sites. Selected aquatic areas, chosen for their enduring geomorphic features ([Wilcox 1993](#)), were used as sampling strata. Each aquatic area is artificially partitioned into 50-m<sup>2</sup> sampling grids beginning with a random origin for each LTRMP study reach ([Gutreuter et al. 1995](#)) using a geographic information system. Beginning in 1993, sampling sites were randomly chosen from this lattice of square grids. Whenever it is discovered that a randomly selected site cannot be sampled because of environmental constraints (e.g., limited physical access or high flow), the nearest accessible site from a list of randomly selected alternate sites is sampled within the same aquatic area class.

From 1990 to 2000, the LTRMP used day and night electrofishing, fyke nets, mini fyke nets, small and large hoop nets, seines, gill nets, anchored trammel nets, and bottom trawls to sample fish in various strata. The following is a summary of sampling gears according to Gutreuter et al. ([1995](#)):

### *Electrofishing*

Electrofishing is conducted with pulsed direct current; boat configuration and power

output are standardized (Burkhardt and Gutreuter 1995; [Gutreuter et al. 1995](#)). Electrofishing effort is of 15-min duration and is paced so that the boat covers a rectangle of about 200 × 30 m. Day and night electrofishing data from these two methods were combined for length analysis. The unit of effort is a 15-min run.

### ***Fyke Net***

The LTRMP uses Wisconsin-type fyke nets (trap nets) that contain three sections: the lead, frame, and cab. All netting is 1.8-cm mesh (bar measure). Leads are 15 m long and 1.3 m high. The spring steel frames are 0.9 m high and 1.8 m wide with two internal wing throats. The cabs are constructed of six steel hoops (0.9 m in diameter) containing two throats. These nets are fished singly from shoreline or from beds of dense vegetation or in tandem (with leads connected) offshore. The unit of effort is a net-day, where each frame is one net. Fyke and tandem fyke netting data were combined for length distribution analysis.

### ***Mini Fyke Net***

Mini fyke nets are small, Wisconsin-type fyke nets. Mesh size is 3-mm Ace-type nylon. The leads are 4.5 m long and 0.6 m high. The spring steel frames are 0.6 m high and 1.2 m wide with two internal wing throats. The cabs are constructed of two steel hoops (0.6 m in diameter) with one throat. These nets are fished singly from shoreline or from beds of dense vegetation or in tandem (with leads connected) offshore. The unit of effort is a net-day, where each frame is one net.

### ***Hoop Net***

The LTRMP uses two sizes of hoop nets. The large nets are composed of seven fiberglass hoops with diameters of 1.1–1.2 m. These nets are 4.8 m long, contain two finger-style throats, and are constructed of 3.7-cm nylon mesh (bar measure). The small nets are composed of seven fiberglass hoops with diameters of 0.5 to 0.6 m. The small nets are 3 m long, contain two finger-style throats, and are constructed of 1.8-cm nylon mesh (bar measure). Hoop nets are deployed separately but in pairs within sampling sites. Both nets are baited with 3 kg of soybean cake. Because of gear inefficiency, hoop net sets in BWCO areas were optional during 1999. For this report, the estimates from pairs of nets are pooled and, therefore, treated as a single gear for consistency with the 1990–92 data. The unit of effort is a net-day, which is 24 h of effort by a pair of nets.

### ***Seine***

The LTRMP uses 10.7-m-long seines constructed of 3-mm Ace-type nylon mesh. These seines are 1.8 m high and have a 0.9-m<sup>2</sup> bag in the centers. Seines are extended perpendicularly to shorelines and then swept in a 90 arc downstream to the shoreline.

### ***Gill Net***

In 1993, gill nets became an optional experimental sampling gear. This option was included to improve monitoring capabilities for some large riverine species. Gill nets are 91.44 m long and consist of four, 22.86-m panels of monofilament mesh. The panels are 2.44 m deep. Each panel consists of different mesh of 10.2-, 20.3-, and 25.4-cm stretch measure. The 10.2- and 15.2-cm mesh are woven from No. 8 (9.07-kg [20-lb] test) transparent nylon monofilament. The 25.4-cm mesh is woven from No. 12 (13.61-kg [30-lb] test) transparent nylon monofilament. The top line is floating foam-core rope and the bottom line is 29.5-kg lead-core rope. Gill nets are set either perpendicularly (preferred) or parallel (in high-flow conditions) to the shoreline. The standard unit of gill netting effort is the net-day, where a day is 24 h.

### ***Anchored Trammel Net***

In 1994, anchored trammel nets became an optional experimental sampling gear. This option was included to improve monitoring capabilities for some large riverine species. Trammel nets may be anchored or drifted with the current.

Trammel nets are 91.44 × 2.44 m, inside netting is 10.16-cm bar of No. 8 monofilament hung about 85 m per 30.48 m of finished net. The net wall size is 35.56-cm bar of No. 9 multifilament twine hung 61 m per 30.48 yards of finished net. The net float line is 1.27-cm foam-core (two strands on the floating nets, one strand on the bottom set nets), and the lead line is lead-core (No. 20 on the floating net, No. 65 on the sinking net).

### ***Bottom Trawl***

Bottom trawl is conducted only at permanently fixed-site sampling locations in tailwater zones and unstructured channel borders. The LTRMP trawls collect mainly small, bottom-dwelling fish. The trawls are two-seam, 4.8-m slingshot balloon trawls (TRL16BC, Memphis Net and Twine Co., Inc., or the equivalent). The body of the trawl is made of No. 9 nylon with stretch mesh 18 mm in diameter. The cod end is made of No. 18 nylon with stretch mesh 18 mm in diameter. The cod end contains a 1.8-m liner consisting of 3 mm Ace-type nylon mesh. Floats are spaced every 0.91 m along the headrope, and a 4.8-mm steel chain is tied to the footrope. The trawl is equipped with 37-cm-high by 75-cm-long iron "V" doors (otter boards). These trawls are dragged downriver by small, flat-bottomed boats. Trawl speed is barely faster than ambient



current speed. The standard unit of trawling effort is a haul. A minimum of six hauls are collected in main or side channel sites and four hauls at tailwater sites.

## Statistical Methods

The LTRMP uses mean catch-per-unit-effort ( $C/f$ ) as an index of abundance, as is conventional practice (Ricker 1975). The units of effort are specific to particular gears. For electrofishing and seining, effort is a constant, but for other gears it is somewhat variable. For example, although the effort goal for fyke netting is 1 day ([Gutreuter et al. 1995](#)), actual effort may vary between 20 and 30 h. Catch and effort are recorded for each species from individual samples (deployments of particular gears at unique combinations of time and place). Whenever a species is not caught in a sample, the catch for that species is zero. Although these zero catches are not recorded, they are reconstructed for analyses.

The estimates of pooled reachwide mean  $C/f$  were obtained from the conventional design-based estimator for stratified random samples (Cochran 1977). For an arbitrary random variable denoted  $y$  (for this report  $y$  represents  $C/f$ ), the pooled mean, denoted  $\bar{y}_{st}$  ( $st$  represents stratified) is given by

$$\bar{y}_{st} = \frac{1}{N} \sum_{h=1}^L N_h \bar{y}_h \quad (1)$$

where  $N_h$  is the number of sampling units within stratum  $h$ ,  $N = \sum_{h=1}^L N_h$ , and  $\bar{y}_h$  denotes the estimator of the simple mean of  $y$  for stratum  $h$ . The estimator of the variance of  $\bar{y}_{st}$  is

$$s^2(\bar{y}_{st}) = \frac{1}{N^2} \sum_{h=1}^L N_h (N_h - n_h) \left( \frac{s_h^2}{n_h} \right) \quad (2)$$

where

$$s_h^2 = \frac{\sum_{i=1}^{n_h} (y_{hi} - \bar{y}_h)^2}{n_h - 1}$$

is the usual estimator of the variance of  $y_h$  and  $n_h$  is the number of samples taken in stratum  $h$  (Cochran 1977). The standard error of  $\bar{y}_{st}$  is therefore  $s(\bar{y}_{st})$ . For LTRMP fish monitoring, the sampling units are 50-m<sup>2</sup> sampling grids.

In this report, *C/f* statistics are reported separately for the limited, fixed-site sampling and the primary stratified random sampling. Equation (1) is used to estimate means of data obtained from fixed-site sampling to maintain computational consistency. The pooled means from fixed-site sampling are not guaranteed unbiased because there is no assurance that the fixed sites were unbiased within the stratum. Equation (1) is also used to obtain estimates of overall mean *C/f* from stratified random sampling. In random samples, equation (1) yields unbiased estimates of the pooled means regardless of the probability distribution of  $y$  (Cochran 1977).

Length distribution analysis was performed for 13 selected fish species (gear used): gizzard shad (electrofishing), common carp (electrofishing), smallmouth buffalo (electrofishing; small and large hoop netting), channel catfish (electrofishing; small and large hoop netting), northern pike (electrofishing; fyke and tandem fyke netting), white bass (electrofishing), bluegill (electrofishing; fyke and tandem fyke netting), largemouth bass (electrofishing), white crappie (fyke and tandem fyke netting), black crappie (fyke and tandem fyke netting), sauger (electrofishing), walleye (electrofishing), and freshwater drum (electrofishing; fyke and tandem fyke netting). The length data are illustrated in the form of histograms. Because data within a single sampling season are taken over a long time and size ranges for certain species of fish can overlap (e.g., a 6-cm-long bluegill collected early in period 1 is not of the same cohort as a 6-cm-long bluegill collected late in period 3), interpretations in the length distributions should be made cautiously. In some instances, meaningful biological interpretation of these distributions may be limited by small sample size or size selectivity of the gear (Anderson and Neumann 1996). Some fish histograms with small sample sizes (<100) are included in this report because of local interest, while others were omitted (reach dependent).

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**Table 1.** Long Term Resource Monitoring Program list of fishes, arranged phylogenetically by family, then alphabetically by genus and species. Hybrids are listed after respective genera. Nomenclature follows Robins et al. (1991).

Common name	Family name	Scientific name
	<b>Petromyzontidae</b>	
Chestnut lamprey		<i>Ichthyomyzon castaneus</i>
Silver lamprey		<i>I. unicuspis</i>
American brook lamprey		<i>Lampetra appendix</i>
	<b>Acipenseridae</b>	
Lake sturgeon		<i>Acipenser fulvescens</i>
Pallid sturgeon		<i>Scaphirhynchus albus</i>
Shovelnose sturgeon		<i>S. platyrhynchus</i>
Pallid sturgeon x Shovelnose sturgeon		<i>S. albus</i> x <i>S. platyrhynchus</i>
	<b>Polyodontidae</b>	
Paddlefish		<i>Polyodon spathula</i>
	<b>Lepisosteidae</b>	
Spotted gar		<i>Lepisosteus oculatus</i>
Longnose gar		<i>L. osseus</i>
Shortnose gar		<i>L. platostomus</i>
	<b>Amiidae</b>	
Bowfin		<i>Amia calva</i>
	<b>Hiodontidae</b>	
Goldeye		<i>Hiodon alosoides</i>
Mooneye		<i>H. tergisus</i>
	<b>Anguillidae</b>	
American eel		<i>Anguilla rostrata</i>
	<b>Clupeidae</b>	
Skipjack herring		<i>Alosa chrysochloris</i>

Gizzard shad		<i>Dorosoma cepedianum</i>
Threadfin shad		<i>D. petenense</i>
	<b>Cyprinidae</b>	
Central stoneroller		<i>Campostoma anomalum</i>
Goldfish		<i>Carassius auratus</i>
Grass carp		<i>Ctenopharyngodon idella</i>
Red shiner		<i>Cyprinella lutrensis</i>
Spotfin shiner		<i>C. spiloptera</i>
Blacktail shiner		<i>C. venusta</i>
Common carp		<i>Cyprinus carpio</i>
Goldfish x common carp		<i>Carassius auratus</i> x <i>Cyprinus carpio</i>
Western silvery minnow		<i>Hybognathus argyritis</i>
Brassy minnow		<i>H. hankinsoni</i>
Mississippi silvery minnow		<i>H. nuchalis</i>
Plains minnow		<i>H. placitus</i>
Silver carp		<i>Hypophthalmichthys molitrix</i>
Bighead carp		<i>H. nobilis</i>
Striped shiner		<i>Luxilus chrysocephalus</i>
Bleeding shiner		<i>Luxilus zonatus</i>
Speckled chub		<i>Macrhybopsis aestivalis</i>
Sturgeon chub		<i>M. gelida</i>
Sicklefin chub		<i>M. meeki</i>
Silver chub		<i>M. storeriana</i>
Hornyhead chub		<i>Nocomis biguttatus</i>
Golden shiner		<i>Notemigonus crysoleucas</i>
Bigeye chub		<i>Notropis amblops</i>
Pallid shiner		<i>N. amnis</i>
Emerald shiner		<i>N. atherinoides</i>
River shiner		<i>N. blennius</i>
Bigeye shiner		<i>N. boops</i>
Ghost shiner		<i>N. buchanani</i>
Spottail shiner		<i>N. hudsonius</i>
Ozark minnow		<i>N. nubilus</i>
Silverband shiner		<i>N. shumardi</i>
Sand shiner		<i>N. stramineus</i>

Weed shiner		<i>N. texanus</i>
Mimic shiner		<i>N. volucellus</i>
Channel shiner		<i>N. wickliffi</i>
Pugnose minnow		<i>Opsopoeodus emiliae</i>
Suckermouth minnow		<i>Phenacobius mirabilis</i>
Southern redbelly dace		<i>P. erythrogaster</i>
Bluntnose minnow		<i>Pimephales notatus</i>
Fathead minnow		<i>P. promelas</i>
Bullhead minnow		<i>P. vigilax</i>
Blacknose dace		<i>Rhinichthys atratulus</i>
Creek chub		<i>Semotilus atromaculatus</i>
	<b>Catostomidae</b>	
River carpsucker		<i>Carpionodes carpio</i>
Quillback		<i>C. cyprinus</i>
Highfin carpsucker		<i>C. velifer</i>
White sucker		<i>C. commersoni</i>
Blue sucker		<i>Cycleptus elongatus</i>
Creek chubsucker		<i>Erimyzon oblongus</i>
Northern hog sucker		<i>Hypentelium nigricans</i>
Smallmouth buffalo		<i>Ictiobus bubalus</i>
Bigmouth buffalo		<i>I. cyprinellus</i>
Black buffalo		<i>I. niger</i>
Spotted sucker		<i>Minytrema melanops</i>
Silver redhorse		<i>Moxostoma anisurum</i>
River redhorse		<i>M. carinatum</i>
Golden redhorse		<i>M. erythrurum</i>
Shorthead redhorse		<i>M. macrolepidotum</i>
	<b>Ictaluridae</b>	
Black bullhead		<i>Ameiurus melas</i>
Yellow bullhead		<i>A. natalis</i>
Brown bullhead		<i>A. nebulosus</i>
Blue catfish		<i>Ictalurus furcatus</i>
Channel catfish		<i>I. punctatus</i>
Slender madtom		<i>Noturus exilis</i>
Stonecat		<i>N. flavus</i>
Tadpole madtom		<i>N. gyrinus</i>

Freckled madtom		<i>N. nocturnus</i>
Flathead catfish		<i>Pylodictis olivaris</i>
	<b>Esocidae</b>	
Grass pickerel		<i>Esox americanus vermiculatus</i>
Northern pike		<i>E. lucius</i>
Muskellunge		<i>E. masquinongy</i>
Tiger muskellunge		<i>E. masquinongy</i> × <i>E. lucius</i>
Chain pickerel		<i>E. niger</i>
	<b>Umbridae</b>	
Central mudminnow		<i>Umbra limi</i>
	<b>Osmeridae</b>	
Rainbow smelt		<i>Osmerus mordax</i>
	<b>Salmonidae</b>	
Brown trout		<i>Salmo trutta</i>
	<b>Percopsidae</b>	
Trout-perch		<i>Percopsis omiscomaycus</i>
	<b>Aphredoderidae</b>	
Pirate perch		<i>Aphredoderus sayanus</i>
	<b>Gadidae</b>	
Burbot		<i>Lota lota</i>
	<b>Cyprinodontidae</b>	
Northern studfish		<i>Fundulus catenatus</i>
Starhead topminnow		<i>F. dispar</i>
Blackstripe topminnow		<i>F. notatus</i>
Blackspotted topminnow		<i>F. olivaceus</i>
	<b>Poeciliidae</b>	
Western mosquitofish		<i>Gambusia affinis</i>
	<b>Atherinidae</b>	
Brook silverside		<i>Labidesthes sicculus</i>
Inland silverside		<i>Menidia beryllina</i>
	<b>Gasterosteidae</b>	
Brook stickleback		<i>Culaea inconstans</i>
	<b>Percichthyidae</b>	
White perch		<i>Morone americana</i>
White bass		<i>M. chrysops</i>
Yellow bass		<i>M. mississippiensis</i>

Striped bass		<i>M. saxatilis</i>
White bass x striped bass		<i>M. chrysops</i> x <i>M. saxatilis</i>
	<b>Centrarchidae</b>	
Shadow bass		<i>Ambloplites ariommus</i>
Rock bass		<i>A. rupestris</i>
Flier		<i>Centrarchus macropterus</i>
Green sunfish		<i>Lepomis cyanellus</i>
Pumpkinseed		<i>L. gibbosus</i>
Warmouth		<i>L. gulosus</i>
Orangespotted sunfish		<i>L. humilis</i>
Bluegill		<i>L. macrochirus</i>
Longear sunfish		<i>L. megalotis</i>
Redear sunfish		<i>L. microlophus</i>
Green sunfish x pumpkinseed		<i>L. cyanellus</i> x <i>L. gibbosus</i>
Green sunfish x warmouth		<i>L. cyanellus</i> x <i>L. gulosus</i>
Green sunfish x orangespotted sunfish		<i>L. cyanellus</i> x <i>L. humilis</i>
Green sunfish x bluegill		<i>L. cyanellus</i> x <i>L. macrochirus</i>
Pumpkinseed x warmouth		<i>L. gibbosus</i> x <i>L. gulosus</i>
Pumpkinseed x orangespotted sunfish		<i>L. gibbosus</i> x <i>L. humilis</i>
Pumpkinseed x bluegill		<i>L. gibbosus</i> x <i>L. macrochirus</i>
Orangespotted sunfish x longear sunfish		<i>L. humilis</i> x <i>L. megalotis</i>
Bluegill x warmouth		<i>L. macrochirus</i> x <i>L. gulosus</i>
Bluegill x orangespotted sunfish		<i>L. macrochirus</i> x <i>L. humilis</i>
Bluegill x longear sunfish		<i>L. macrochirus</i> x <i>L. megalotis</i>
Bluegill x redear sunfish		<i>L. macrochirus</i> x <i>L. microlophus</i>
Smallmouth bass		<i>Micropterus dolomieu</i>
Smallmouth bass		<i>M. punctulatus</i>
Largemouth bass		<i>M. salmoides</i>
White crappie		<i>Pomoxis annularis</i>
Black crappie		<i>P. nigromaculatus</i>
White crappie x black crappie		<i>P. annularis</i> x <i>P. nigromaculatus</i>
	<b>Percidae</b>	
Crystal darter		<i>Crystallaria asprella</i>
Western sand darter		<i>A. clara</i>
Mud darter		<i>Etheostoma asprigene</i>
Greenside darter		<i>E. blennioides</i>



Bluntnose darter		<i>E. chlorosomum</i>
Iowa darter		<i>E. exile</i>
Fantail darter		<i>E. flabellare</i>
Slough darter		<i>E. gracile</i>
Johnny darter		<i>E. nigrum</i>
Banded darter		<i>E. zonale</i>
Yellow perch		<i>Perca flavescens</i>
Logperch		<i>Percina caprodes</i>
Blackside darter		<i>P. maculata</i>
Slenderhead darter		<i>P. phoxocephala</i>
Dusky darter		<i>P. sciera</i>
River darter		<i>P. shumardi</i>
Sauger		<i>Stizostedion canadense</i>
Walleye		<i>S. vitreum</i>
Sauger x walleye		<i>S. canadense</i> x <i>S. vitreum</i>
	<b>Sciaenidae</b>	
Freshwater drum		<i>Aplodinotus grunniens</i>

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[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/table01species\\_list.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/table01species_list.html)

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## Pool 4, Upper Mississippi River 2000 Fish Collection Summary

This report is a bullet summary of the [Long Term Resource Monitoring Program's](#) fish collection efforts conducted by the [Lake City Field Station](#) on [Pool 4](#), Upper Mississippi River during 2000. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 377 fish collections were conducted using 10 gear types ([Table 2.1](#)).
- Gear allocations among strata remained consistent for all three sampling periods, except for one fewer minnow fyke net during period 1 ([Table 2.1](#)).
- Water levels did not affect sample allocations ([Table 2.1](#); [Figure 1.1](#)).
- Of the 377 fish collections, 324 were from randomly selected sites. Fifty-three collections were made at fixed sites.
- Side channel borders, backwater contiguous shoreline, backwater contiguous offshore, and main channel border, unstructured, received the most sampling effort ([Table 2.1](#)).
- 118,789 fish were collected representing 67 species and 3 hybrids ([Table 3.1](#)).
- Historical fish distribution records for the Upper Mississippi River (Pitlo et al. 1995) document 99 fish species from Pool 4.
- No exotics, threatened, or endangered species were noted ([Table 3.1](#)).
- Mean catch-per-unit-effort and standard effort for fish collected by gears using stratified random ([Tables 4.1-12.1](#)) and fixed-site sampling ([Tables 14.1-21.1](#)) for each stratum are shown.

- Length distributions for selected species of fish are shown in [Figures 2.1 to 19.1](#).

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**Table 2.1** Allocation of fish sampling effort among strata in Pool 4 of the Upper Mississippi River during 2000. Table entries are numbers of successfully completed standardized monitoring collections.

**Sampling period = 1: June 15–July 31**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	8		8	8	4					28
Fyke net	6								2	8
Large hoop net			6	4					2	12
Small hoop net			6	4					2	12
Mini fyke net	6		6	4					1	17
Night electrofishing									4	4
Seine			12	12						24
Trawling									4	4
Tandem fyke net		8								8
Tandem mini fyke net		8								8
<b>Subtotal</b>	<b>20</b>	<b>16</b>	<b>38</b>	<b>32</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>15</b>	<b>125</b>

**Sampling period = 2: August 1–September 14**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	6		9	9	4					28
Fyke net	6								2	8
Large hoop net			6	4					2	12
Small hoop net			6	4					2	12

Mini fyke net	8		4	4					2	18
Night electrofishing									4	4
Seine			12	12						24
Trawling									4	4
Tandem fyke net		8								8
Tandem mini fyke net		8								8
<b>Subtotal</b>	<b>20</b>	<b>16</b>	<b>37</b>	<b>33</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>126</b>

### Sampling period = 3: September 15–October 31

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	8		8	8	4					28
Fyke net	6								2	8
Large hoop net			6	4					2	12
Small hoop net			6	4					2	12
Mini fyke net	6		6	4					2	18
Night electrofishing									4	4
Seine			12	12						24
Trawling									4	4
Tandem fyke net		8								8
Tandem mini fyke net		8								8
<b>Subtotal</b>	<b>20</b>	<b>16</b>	<b>38</b>	<b>32</b>	<b>4</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>126</b>
<b>Total</b>	<b>60</b>	<b>48</b>	<b>113</b>	<b>97</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>47</b>	<b>377</b>

### Sampling strata:

**BWCS - Backwater, contiguous, shoreline**

**BWCO - Backwater, contiguous, offshore**

**SCB - Side channel border**

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**IMPS - Impounded, shoreline**

**IMPO - Impounded, offshore**

**TRI - Tributary mouth**

## TWZ - Tailwater



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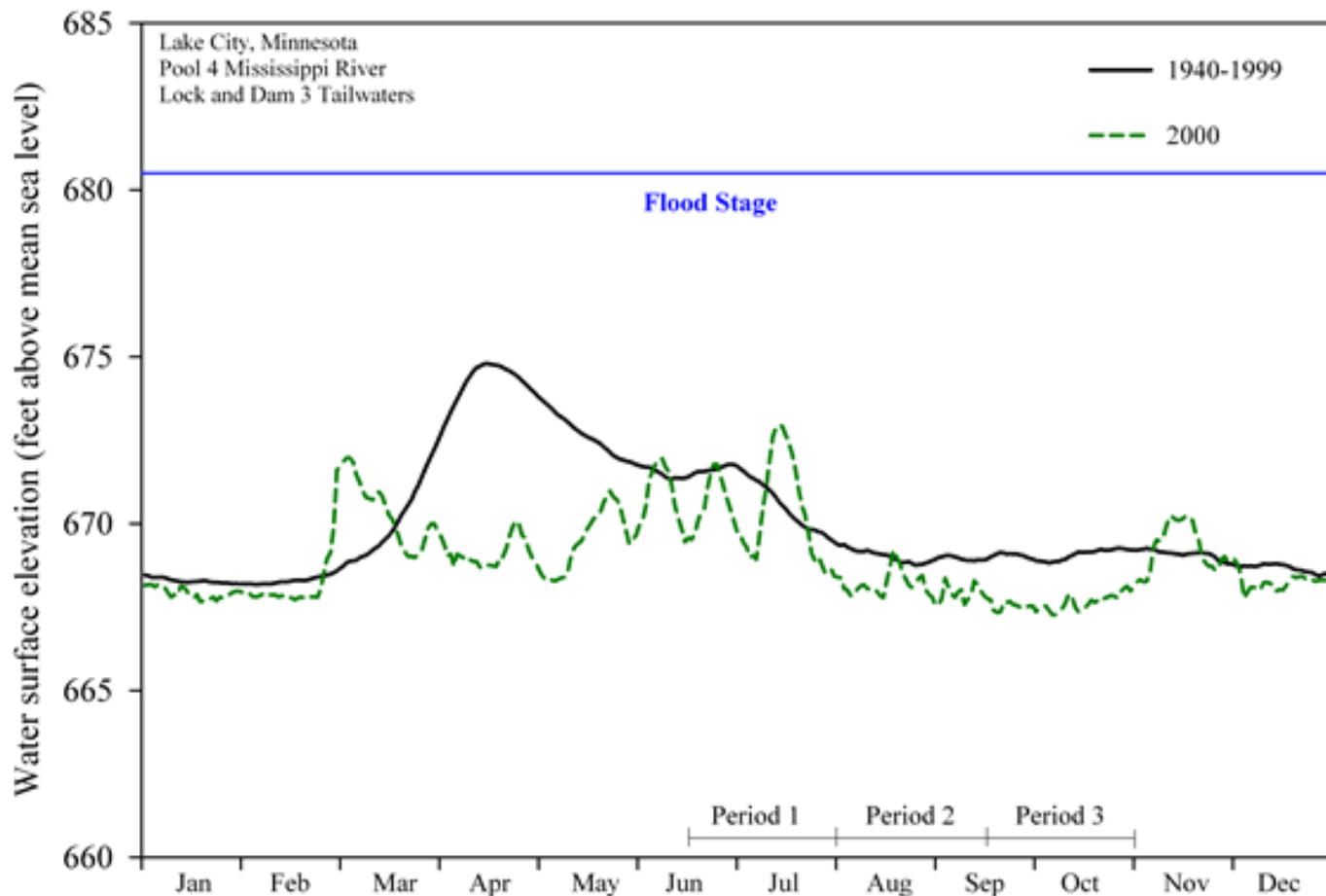


Figure 1.1 Daily water surface elevation from Lock and Dam 3 for Pool 4, Upper Mississippi River, during 2000 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski et al. 1995).

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**Table 3.1** Total catches, by gear type, of fish collected in Pool 4 of the Upper Mississippi River during 2000. See [Table 2.1](#) for the list of sampling gears actually deployed in this study reach.

Species	Common name	Scientific name	D	N	F	X	M	Y	S	HS	HL	G	TA	T	Total
1	Chestnut lamprey	<i>Ichthyomyzon castaneus</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
2	Silver lamprey	<i>I. unicuspis</i>	3	-	-	1	-	-	-	-	1	-	-	-	5
3	Lake sturgeon	<i>Acipenser fulvescens</i>	-	-	-	-	-	-	-	-	-	-	-	1	1
4	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	1	-	-	59	60
5	Longnose gar	<i>Lepisosteus osseus</i>	6	5	9	4	1	1	-	-	-	-	-	-	26
6	Shortnose gar	<i>L. platostomus</i>	1	1	9	1	5	-	-	-	-	-	-	-	17
7	Bowfin	<i>Amia calva</i>	3	-	17	25	7	3	1	-	-	-	-	-	56
8	Mooneye	<i>Hiodon tergisus</i>	12	-	1	4	-	-	-	-	-	-	-	-	17
9	American eel	<i>Anguilla rostrata</i>	-	-	-	-	2	-	-	-	-	-	-	-	2
10	Gizzard shad	<i>Dorosoma cepedianum</i>	7539	567	13	120	81	296	300	-	1	-	-	13	8930
11	Spotfin shiner	<i>Cyprinella spiloptera</i>	298	1	-	-	686	24	2913	-	-	-	-	-	3922
12	Common carp	<i>Cyprinus carpio</i>	540	80	106	62	16	1	12	70	224	-	-	3	1114
13	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	-	-	-	90	-	-	-	-	-	-	13	103
14	Silver chub	<i>M. storeriana</i>	12	2	-	2	9	-	4	-	-	-	-	3	32
15	Golden shiner	<i>Notemigonus crysoleucas</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
16	Emerald shiner	<i>Notropis atherinoides</i>	7752	45986	-	-	30329	558	5072	-	-	-	-	-	89697
17	River shiner	<i>N. blennioides</i>	7	-	-	-	40	-	7	-	-	-	-	-	54
18	Bigmouth shiner	<i>N. dorsalis</i>	-	-	-	-	-	-	2	-	-	-	-	-	2
19	Spottail shiner	<i>N. hudsonius</i>	9	-	-	-	40	1	2	-	-	-	-	-	52
20	Sand shiner	<i>N. stramineus</i>	3	-	-	-	9	-	35	-	-	-	-	-	47
21	Weed shiner	<i>N. texanus</i>	-	-	-	-	-	6	-	-	-	-	-	-	6

22	Mimic shiner	<i>N. volucellus</i>	174	26	-	-	1190	8	1055	-	-	-	-	3	2456
23	Pugnose minnow	<i>Opsopoeodus emiliae</i>	46	-	-	-	528	64	15	-	-	-	-	-	653
24	Bluntnose minnow	<i>Pimephales notatus</i>	-	-	-	-	27	-	2	-	-	-	-	-	29
25	Fathead minnow	<i>P. promelas</i>	-	-	-	-	4	-	-	-	-	-	-	-	4
26	Bullhead minnow	<i>P. vigilax</i>	171	9	-	-	1263	227	926	-	-	-	-	1	2597
27	River carpsucker	<i>Carpiodes carpio</i>	6	-	-	4	-	-	-	-	-	-	-	-	10
28	Quillback	<i>C. cyprinus</i>	21	-	1	4	-	-	13	-	-	-	-	-	39
29	White sucker	<i>Catostomus commersoni</i>	3	-	1	6	-	1	-	-	-	-	-	1	12
30	Blue sucker	<i>Cycleptus elongatus</i>	6	-	-	-	-	-	-	-	-	-	-	1	7
31	Smallmouth buffalo	<i>Ictiobus bubalus</i>	23	9	20	22	-	-	-	12	125	-	-	1	212
32	Bigmouth buffalo	<i>I. cyprinellus</i>	9	2	-	-	1	-	1	-	-	-	-	-	13
33	Black buffalo	<i>I. niger</i>	-	-	-	-	-	-	-	-	1	-	-	-	1
34	Spotted sucker	<i>Minytrema melanops</i>	60	-	5	3	-	-	-	-	-	-	-	-	68
35	Silver redhorse	<i>Moxostoma anisurum</i>	182	5	71	116	3	3	56	3	12	-	-	-	451
36	River redhorse	<i>M. carinatum</i>	43	-	-	-	-	-	-	-	-	-	-	-	43
37	Golden redhorse	<i>M. erythrurum</i>	50	1	2	10	-	-	2	-	-	-	-	-	65
38	Shorthead redhorse	<i>M. macrolepidotum</i>	324	33	27	29	2	-	7	8	8	-	-	1	439
39	Unidentified redhorse	<i>Moxostoma</i> sp.	4	-	-	-	-	-	4	-	-	-	-	-	8
40	Unidentified sucker	Unidentified Catostomidae	-	-	-	-	-	-	1	-	-	-	-	-	1
41	Black bullhead	<i>Ameiurus melas</i>	1	-	2	-	1	-	-	-	-	-	-	-	4
42	Yellow bullhead	<i>A. natalis</i>	-	1	-	1	-	-	-	-	-	-	-	-	2
43	Channel catfish	<i>Ictalurus punctatus</i>	10	6	7	1	-	1	-	18	37	-	-	46	126
44	Tadpole madtom	<i>Noturus gyrinus</i>	-	-	-	-	6	2	-	-	-	-	-	-	8
45	Flathead catfish	<i>Pylodictis olivaris</i>	14	21	3	2	1	2	-	-	21	-	-	1	65
46	Northern pike	<i>Esox lucius</i>	20	3	11	17	2	-	1	-	1	-	-	-	55
47	Burbot	<i>Lota lota</i>	1	2	-	-	1	-	-	-	-	-	-	-	4

48	Brook silverside	<i>Labidesthes sicculus</i>	7	1	-	-	-	-	49	-	-	-	-	57
49	White bass	<i>Morone chrysops</i>	231	176	57	51	15	58	39	1	2	-	-	630
50	Rock bass	<i>Ambloplites rupestris</i>	96	2	9	50	47	15	8	1	1	-	-	229
51	Green sunfish	<i>Lepomis cyanellus</i>	8	10	-	-	1	-	1	-	-	-	-	20
52	Pumpkinseed	<i>L. gibbosus</i>	5	-	9	2	-	-	-	-	-	-	-	16
53	Orangespotted sunfish	<i>L. humilis</i>	1	1	-	-	-	-	-	-	-	-	-	2
54	Bluegill	<i>L. macrochirus</i>	746	130	490	529	265	63	435	13	10	-	-	2681
55	Green x bluegill sunfish	<i>L. cyanellus x macrochirus</i>	2	1	-	-	2	-	-	-	-	-	-	5
56	Pumpkinseed x bluegill	<i>L. gibbosus x macrochirus</i>	1	1	-	-	-	-	-	-	-	-	-	2
57	Smallmouth bass	<i>Micropterus dolomieu</i>	180	139	2	1	-	-	8	-	-	-	-	330
58	Largemouth bass	<i>M. salmoides</i>	241	39	3	-	1	-	1	-	-	-	-	285
59	White crappie	<i>Pomoxis annularis</i>	13	21	21	18	18	30	1	-	-	-	-	122
60	Black crappie	<i>P. nigromaculatus</i>	131	56	273	424	61	32	3	1	65	-	-	1046
61	Unidentified sunfish	Unidentified Centrarchidae	-	-	-	-	-	9	2	-	-	-	-	11
62	Western sand darter	<i>Ammocrypta clara</i>	-	-	-	-	-	-	6	-	-	-	-	6
63	Mud darter	<i>Etheostoma asprigene</i>	-	-	-	-	-	1	-	-	-	-	-	1
64	Johnny darter	<i>E. nigrum</i>	7	-	-	-	7	3	9	-	-	-	-	26
65	Banded darter	<i>E. zonale</i>	1	-	-	-	-	-	-	-	-	-	-	1
66	Yellow perch	<i>Perca flavescens</i>	134	1	19	97	7	6	14	5	-	-	-	283
67	Logperch	<i>Percina caprodes</i>	72	11	-	-	2	-	5	-	-	-	-	90
68	Slenderhead darter	<i>P. phoxocephala</i>	4	1	-	-	-	-	-	-	-	-	-	5
69	River darter	<i>P. shumardi</i>	-	-	-	-	6	1	6	-	-	-	9	22
70	Sauger	<i>Stizostedion canadense</i>	53	146	18	19	3	-	-	-	4	-	8	251
71	Walleye	<i>S. vitreum</i>	35	50	9	8	-	-	5	-	1	-	9	117
72	Sauger x walleye hybrid	<i>S. canadense x vitreum</i>	1	-	-	1	-	-	-	-	-	-	-	2
73	Unidentified Stizostedion	<i>Stizostedion sp.</i>	-	-	-	-	-	-	1	-	-	-	-	1

74	Freshwater drum	<i>Aplodinotus grunniens</i>	79	82	159	156	25	17	21	6	21	-	-	63	629
75	Larval fish	Unidentified	-	-	-	-	-	1	113	-	-	-	-	-	114
76	Unidentified	Unidentified	-	-	-	-	28	1	259	-	-	-	-	-	288
			<b>19402</b>	<b>47628</b>	<b>1374</b>	<b>1790</b>	<b>34833</b>	<b>1435</b>	<b>11417</b>	<b>138</b>	<b>536</b>	<b>0</b>	<b>0</b>	<b>236</b>	<b>118789</b>

**Sampling gears:****D - Day electrofishing****N - Night electrofishing****F - Fyke netting****X - Tandem fyke netting****M - Mini fyke netting****Y - Tandem mini fyke netting****S - Seining****HS - Small hoop netting****HL - Large hoop netting****G - Gill netting****TA - Trammel netting****T- Trawling***Last updated on August 24, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_4/tb2\\_mn.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_4/tb2_mn.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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## Pool 4 Tables

Table*	Stratified Random Sampling
<a href="#">4.1</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">6.1</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">7.1</a>	Mean catch-per-unit-effort for fish collected by tandem fyke netting
<a href="#">8.1</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">9.1</a>	Mean catch-per-unit-effort for fish collected by tandem mini fyke netting
<a href="#">10.1</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">11.1</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">12.1</a>	Mean catch-per-unit-effort for fish collected by seining
Fixed-site Sampling	
<a href="#">14.1</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">15.1</a>	Mean catch-per-unit-effort for fish collected by night electrofishing
<a href="#">16.1</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">17.1</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">18.1</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">19.1</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">21.1</a>	Mean catch-per-unit-effort for fish collected by bottom trawling
*Table numbers are not always in sequence because some gears were not fished in some study areas. Table numbers for each gear type are consistent among study areas.	

Content manager: [Jennie Sauer](#)

*Last updated on September 22, 2004*

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**Table 4.1** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	MCBU	MCBW	SCB
<b>Chestnut lamprey</b>	0.01		0.04		
	(0.01)		(0.04)		
<b>Silver lamprey</b>	0.03		0.08		0.04
	(0.02)		(0.06)		(0.04)
<b>Longnose gar</b>	0.09	0.09	0.04		0.13
	(0.04)	(0.06)	(0.04)		(0.07)
<b>Shortnose gar</b>	0.02	0.05			
	(0.02)	(0.05)			
<b>Bowfin</b>	0.04		0.04		0.08
	(0.02)		(0.04)		(0.06)
<b>Mooneye</b>	0.17	0.09			0.42
	(0.14)	(0.06)			(0.42)
<b>Gizzard shad</b>	124.71	233.09	57.48	0.67	33.42
	(66.88)	(155.21)	(19.03)	(0.49)	(26.18)
<b>Spotfin shiner</b>	3.96	3.68	4.52		3.92
	(1.08)	(2.21)	(1.53)		(1.15)
<b>Common carp</b>	6.83	6.36	7.68	1.41	6.83

	(0.82)	(1.19)	(1.71)	(0.95)	(1.51)
<b>Silver chub</b>	0.12		0.36		0.08
	(0.05)		(0.19)		(0.08)
<b>Emerald shiner</b>	70.04	16.14	170.68		64.25
	(15.33)	(10.97)	(49.75)		(24.49)
<b>River shiner</b>	0.08	0.05	0.24		
	(0.06)	(0.05)	(0.24)		
<b>Spottail shiner</b>	0.15	0.27	0.08		0.04
	(0.07)	(0.16)	(0.08)		(0.04)
<b>Sand shiner</b>	0.03		0.08		0.04
	(0.02)		(0.06)		(0.04)
<b>Mimic shiner</b>	1.26	0.45	3.56		0.54
	(0.64)	(0.28)	(2.53)		(0.21)
<b>Pugnose minnow</b>	0.86	1.82			0.25
	(0.45)	(1.05)			(0.18)
<b>Bullhead minnow</b>	1.87	2.27	1.40		1.71
	(0.50)	(1.00)	(0.62)		(0.66)
<b>River carpsucker</b>	0.09	0.09	0.10		0.08
	(0.04)	(0.06)	(0.07)		(0.06)
<b>Quillback</b>	0.23	0.18	0.40	0.17	0.17
	(0.07)	(0.11)	(0.16)	(0.17)	(0.10)
<b>White sucker</b>	0.06	0.14			
	(0.04)	(0.10)			
<b>Blue sucker</b>	0.08				0.25
	(0.06)				(0.18)
<b>Smallmouth buffalo</b>	0.27	0.18	0.24	0.25	0.42
	(0.08)	(0.11)	(0.09)	(0.25)	(0.19)
<b>Bigmouth buffalo</b>	0.11	0.14	0.20		
	(0.05)	(0.07)	(0.16)		
<b>Spotted sucker</b>	1.14	2.50			0.21

	(0.46)	(1.06)			(0.13)
<b>Silver redhorse</b>	1.96	0.95	2.34	4.49	3.00
	(0.29)	(0.36)	(0.64)	(1.75)	(0.59)
<b>River redhorse</b>	0.21		0.64	3.74	0.13
	(0.10)		(0.38)	(1.98)	(0.07)
<b>Golden redhorse</b>	0.68	0.55	0.24	0.66	1.21
	(0.19)	(0.18)	(0.13)	(0.31)	(0.53)
<b>Shorthead redhorse</b>	3.11	1.91	4.02	11.56	3.92
	(0.48)	(0.65)	(1.33)	(3.70)	(0.68)
<b>Unidentified redhorse</b>	0.02		0.08		
	(0.01)		(0.06)		
<b>Channel catfish</b>	0.12	0.05	0.12	0.25	0.21
	(0.04)	(0.05)	(0.09)	(0.25)	(0.10)
<b>Flathead catfish</b>	0.06		0.12		0.08
	(0.03)		(0.09)		(0.06)
<b>Northern pike</b>	0.28	0.32	0.38		0.17
	(0.09)	(0.15)	(0.22)		(0.10)
<b>Burbot</b>	0.01		0.04		
	(0.01)		(0.04)		
<b>Brook silverside</b>	0.11	0.18	0.08		0.04
	(0.06)	(0.14)	(0.06)		(0.04)
<b>White bass</b>	2.01	0.36	3.76	2.33	2.83
	(0.50)	(0.12)	(1.41)	(1.22)	(1.10)
<b>Rock bass</b>	1.40	1.68	1.12	0.17	1.25
	(0.34)	(0.65)	(0.42)	(0.17)	(0.55)
<b>Green sunfish</b>	0.08	0.09	0.16		
	(0.06)	(0.09)	(0.16)		
<b>Pumpkinseed</b>	0.10	0.23			
	(0.05)	(0.11)			
<b>Orangespotted sunfish</b>	0.02	0.05			

	(0.02)	(0.05)			
<b>Bluegill</b>	12.25	22.50	2.36	0.17	6.38
	(2.59)	(5.83)	(0.59)	(0.17)	(2.30)
<b>Green x bluegill sunfish</b>	0.03	0.05			0.04
	(0.02)	(0.05)			(0.04)
<b>Smallmouth bass</b>	1.79	0.82	3.86	0.50	1.50
	(0.28)	(0.33)	(0.87)	(0.31)	(0.39)
<b>Largemouth bass</b>	3.41	5.82	1.56	0.17	1.67
	(0.73)	(1.62)	(0.52)	(0.17)	(0.57)
<b>White crappie</b>	0.20	0.32			0.21
	(0.11)	(0.23)			(0.13)
<b>Black crappie</b>	2.07	3.14	0.90		1.58
	(0.57)	(1.23)	(0.37)		(0.61)
<b>Johnny darter</b>	0.10	0.09	0.12		0.08
	(0.05)	(0.09)	(0.07)		(0.06)
<b>Banded darter</b>	0.02	0.05			
	(0.02)	(0.05)			
<b>Yellow perch</b>	1.95	2.36	1.40	0.17	1.83
	(0.43)	(0.76)	(0.69)	(0.17)	(0.71)
<b>Logperch</b>	0.51	0.36	0.68	0.17	0.58
	(0.18)	(0.14)	(0.35)	(0.17)	(0.46)
<b>Slenderhead darter</b>	0.01		0.04		
	(0.01)		(0.04)		
<b>Sauger</b>	0.66	0.50	0.52		1.00
	(0.17)	(0.18)	(0.22)		(0.45)
<b>Walleye</b>	0.43	0.23	0.36	0.50	0.75
	(0.16)	(0.11)	(0.32)	(0.50)	(0.40)
<b>Sauger x walleye hybrid</b>	0.01		0.04		
	(0.01)		(0.04)		
<b>Freshwater drum</b>	1.02	1.18	0.84	2.32	0.92

	(0.22)	(0.43)	(0.32)	(0.49)	(0.29)
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**Sampling strata:**

**BWCS - Backwater, contiguous, shoreline**

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**SCB - Side channel border**

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**Table 6.1** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS
Longnose gar	0.57	0.57
	(0.30)	(0.30)
Shortnose gar	0.49	0.49
	(0.21)	(0.21)
Bowfin	1.12	1.12
	(0.41)	(0.41)
Mooneye	0.06	0.06
	(0.06)	(0.06)
Gizzard shad	0.82	0.82
	(0.48)	(0.48)
Common carp	3.04	3.04
	(0.69)	(0.69)
Quillback	0.06	0.06
	(0.06)	(0.06)
White sucker	0.07	0.07
	(0.07)	(0.07)
Smallmouth buffalo	1.14	1.14

	(0.56)	(0.56)
<b>Spotted sucker</b>	0.33	0.33
	(0.18)	(0.18)
<b>Silver redhorse</b>	4.07	4.07
	(1.66)	(1.66)
<b>Golden redhorse</b>	0.11	0.11
	(0.08)	(0.08)
<b>Shorthead redhorse</b>	1.05	1.05
	(0.39)	(0.39)
<b>Black bullhead</b>	0.12	0.12
	(0.12)	(0.12)
<b>Channel catfish</b>	0.06	0.06
	(0.06)	(0.06)
<b>Northern pike</b>	0.58	0.58
	(0.23)	(0.23)
<b>White bass</b>	1.95	1.95
	(0.96)	(0.96)
<b>Rock bass</b>	0.54	0.54
	(0.18)	(0.18)
<b>Pumpkinseed</b>	0.51	0.51
	(0.36)	(0.36)
<b>Bluegill</b>	31.43	31.43
	(9.56)	(9.58)
<b>Smallmouth bass</b>	0.06	0.06
	(0.06)	(0.06)
<b>Largemouth bass</b>	0.19	0.19
	(0.10)	(0.10)
<b>White crappie</b>	0.72	0.72
	(0.37)	(0.37)
<b>Black crappie</b>	15.49	15.49

	(5.23)	(5.24)
<b>Yellow perch</b>	1.10	1.10
	(0.59)	(0.59)
<b>Sauger</b>	0.30	0.30
	(0.15)	(0.15)
<b>Walleye</b>	0.56	0.56
	(0.31)	(0.31)
<b>Freshwater drum</b>	1.64	1.64
	(0.71)	(0.71)

**Sampling stratum:  
BWCS - Backwater, contiguous, shoreline**

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**Table 7.1** Mean catch-per-unit-effort and (standard error) for fish collected by tandem fyke netting in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO
<b>Silver lamprey</b>	0.02	0.02
	(0.02)	(0.02)
<b>Longnose gar</b>	0.08	0.08
	(0.05)	(0.05)
<b>Shortnose gar</b>	0.02	0.02
	(0.02)	(0.02)
<b>Bowfin</b>	0.55	0.55
	(0.29)	(0.29)
<b>Mooneye</b>	0.08	0.08
	(0.08)	(0.08)
<b>Gizzard shad</b>	2.69	2.69
	(1.33)	(1.34)
<b>Common carp</b>	1.38	1.38
	(0.37)	(0.37)
<b>Silver chub</b>	0.04	0.04
	(0.03)	(0.03)
<b>River carpsucker</b>	0.08	0.08

	(0.05)	(0.05)
<b>Quillback</b>	0.09	0.09
	(0.07)	(0.07)
<b>White sucker</b>	0.14	0.14
	(0.12)	(0.12)
<b>Smallmouth buffalo</b>	0.49	0.49
	(0.35)	(0.35)
<b>Spotted sucker</b>	0.07	0.07
	(0.05)	(0.05)
<b>Silver redhorse</b>	2.49	2.49
	(0.78)	(0.79)
<b>Golden redhorse</b>	0.21	0.21
	(0.10)	(0.10)
<b>Shorthead redhorse</b>	0.59	0.59
	(0.21)	(0.22)
<b>Yellow bullhead</b>	0.02	0.02
	(0.02)	(0.02)
<b>Channel catfish</b>	0.02	0.02
	(0.02)	(0.02)
<b>Flathead catfish</b>	0.04	0.04
	(0.03)	(0.03)
<b>Northern pike</b>	0.36	0.36
	(0.13)	(0.13)
<b>White bass</b>	1.15	1.15
	(0.39)	(0.39)
<b>Rock bass</b>	1.09	1.09
	(0.34)	(0.34)
<b>Pumpkinseed</b>	0.04	0.04
	(0.03)	(0.03)
<b>Bluegill</b>	11.25	11.25

	(1.95)	(1.96)
<b>Smallmouth bass</b>	0.02	0.02
	(0.02)	(0.02)
<b>White crappie</b>	0.40	0.40
	(0.17)	(0.17)
<b>Black crappie</b>	9.00	9.00
	(1.71)	(1.72)
<b>Yellow perch</b>	2.10	2.10
	(0.73)	(0.73)
<b>Sauger</b>	0.42	0.42
	(0.24)	(0.24)
<b>Walleye</b>	0.17	0.17
	(0.13)	(0.13)
<b>Sauger x walleye hybrid</b>	0.02	0.02
	(0.02)	(0.02)
<b>Freshwater drum</b>	3.51	3.51
	(1.75)	(1.75)

**Sampling stratum:**  
**BWCO - Backwater, contiguous, offshore**

*Last updated on August 26, 2004*

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**Table 8.1** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	MCBU	SCB
<b>Longnose gar</b>	0.02		0.09	
	(0.02)		(0.09)	
<b>Shortnose gar</b>	0.11	0.06	0.27	0.07
	(0.08)	(0.06)	(0.27)	(0.07)
<b>Bowfin</b>	0.13	0.31		
	(0.06)	(0.13)		
<b>American eel</b>	0.04			0.13
	(0.04)			(0.13)
<b>Gizzard shad</b>	1.65	1.97	0.28	2.27
	(0.71)	(1.42)	(0.20)	(1.16)
<b>Spotfin shiner</b>	13.76	8.80	1.69	29.80
	(6.44)	(7.91)	(0.88)	(17.12)
<b>Common carp</b>	0.36	0.25		0.78
	(0.16)	(0.12)		(0.46)
<b>Silver chub</b>	0.09			0.27
	(0.07)			(0.21)

<b>Emerald shiner</b>	391.77	4.47	0.83	1214.54
	(319.68)	(3.63)	(0.64)	(999.21)
<b>River shiner</b>	0.98	2.29		
	(0.98)	(2.29)		
<b>Spottail shiner</b>	1.01	2.29	0.10	
	(0.98)	(2.29)	(0.10)	
<b>Sand shiner</b>	0.21		0.76	0.06
	(0.19)		(0.76)	(0.06)
<b>Mimic shiner</b>	15.44	2.76	0.27	44.23
	(10.31)	(2.64)	(0.19)	(32.04)
<b>Pugnose minnow</b>	11.04	24.45		1.71
	(6.09)	(14.20)		(1.40)
<b>Bluntnose minnow</b>	0.54	0.18		1.45
	(0.35)	(0.18)		(1.07)
<b>Fathead minnow</b>	0.09	0.06		0.20
	(0.04)	(0.06)		(0.11)
<b>Bullhead minnow</b>	25.48	34.24	1.79	32.25
	(13.14)	(27.85)	(0.89)	(17.31)
<b>Bigmouth buffalo</b>	0.02	0.06		
	(0.02)	(0.06)		
<b>Silver redhorse</b>	0.06	0.10	0.08	
	(0.04)	(0.07)	(0.08)	
<b>Shorthead redhorse</b>	0.04		0.09	0.07
	(0.03)		(0.09)	(0.07)
<b>Tadpole madtom</b>	0.14	0.32		
	(0.07)	(0.15)		
<b>Northern pike</b>	0.04	0.05	0.09	
	(0.03)	(0.05)	(0.09)	
<b>White bass</b>	0.29	0.06	0.73	0.27

	(0.17)	(0.06)	(0.64)	(0.12)
<b>Rock bass</b>	1.07	0.37	1.59	1.60
	(0.46)	(0.14)	(0.69)	(1.32)
<b>Green sunfish</b>	0.03		0.10	
	(0.03)		(0.10)	
<b>Bluegill</b>	5.71	8.65	1.08	5.39
	(1.57)	(3.09)	(0.45)	(2.62)
<b>Green x bluegill sunfish</b>	0.04	0.05		0.07
	(0.03)	(0.05)		(0.07)
<b>Largemouth bass</b>	0.02	0.05		
	(0.02)	(0.05)		
<b>White crappie</b>	0.41	0.05		1.21
	(0.23)	(0.05)		(0.72)
<b>Black crappie</b>	1.36	0.43	0.21	3.48
	(0.49)	(0.24)	(0.21)	(1.47)
<b>Johnny darter</b>	0.15	0.26		0.13
	(0.06)	(0.10)		(0.13)
<b>Yellow perch</b>	0.16	0.16	0.28	0.07
	(0.06)	(0.09)	(0.15)	(0.07)
<b>Logperch</b>	0.02			0.07
	(0.02)			(0.07)
<b>River darter</b>	0.07		0.18	0.07
	(0.04)		(0.12)	(0.07)
<b>Sauger</b>	0.06	0.10	0.09	
	(0.04)	(0.07)	(0.09)	
<b>Freshwater drum</b>	0.37	0.46	0.08	0.49
	(0.15)	(0.30)	(0.08)	(0.25)
<b>Unidentified</b>	0.64		2.57	
	(0.59)		(2.37)	

**Sampling strata:**

**BWCS - Backwater, contiguous, shoreline**

**MCBU - Main channel border, unstructured**

**SCB - Side channel border**

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**Table 9.1** Mean catch-per-unit-effort and (standard error) for fish collected by tandem mini fyke in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO
<b>Longnose gar</b>	0.02	0.02
	(0.02)	(0.02)
<b>Bowfin</b>	0.08	0.08
	(0.08)	(0.08)
<b>Gizzard shad</b>	7.37	7.37
	(5.83)	(5.84)
<b>Spotfin shiner</b>	0.46	0.46
	(0.44)	(0.44)
<b>Common carp</b>	0.02	0.02
	(0.02)	(0.02)
<b>Emerald shiner</b>	13.87	13.87
	(10.46)	(10.49)
<b>Spottail shiner</b>	0.02	0.02
	(0.02)	(0.02)
<b>Weed shiner</b>	0.13	0.13
	(0.13)	(0.13)



<b>Mimic shiner</b>	0.21	0.21
	(0.18)	(0.19)
<b>Pugnose minnow</b>	1.38	1.38
	(1.07)	(1.07)
<b>Bullhead minnow</b>	4.88	4.88
	(1.72)	(1.72)
<b>White sucker</b>	0.03	0.03
	(0.03)	(0.03)
<b>Silver redhorse</b>	0.06	0.06
	(0.04)	(0.04)
<b>Channel catfish</b>	0.02	0.02
	(0.02)	(0.02)
<b>Tadpole madtom</b>	0.04	0.04
	(0.04)	(0.04)
<b>Flathead catfish</b>	0.04	0.04
	(0.03)	(0.03)
<b>White bass</b>	1.18	1.18
	(0.73)	(0.73)
<b>Rock bass</b>	0.32	0.32
	(0.15)	(0.16)
<b>Bluegill</b>	1.35	1.35
	(0.37)	(0.37)
<b>White crappie</b>	0.62	0.62
	(0.40)	(0.40)
<b>Black crappie</b>	0.68	0.68
	(0.25)	(0.25)
<b>Unidentified sunfish</b>	0.17	0.17
	(0.17)	(0.17)
<b>Mud darter</b>	0.02	0.02

	(0.02)	(0.02)
<b>Johnny darter</b>	0.06	0.06
	(0.05)	(0.05)
<b>Yellow perch</b>	0.13	0.13
	(0.06)	(0.06)
<b>River darter</b>	0.02	0.02
	(0.02)	(0.02)
<b>Freshwater drum</b>	0.36	0.36
	(0.12)	(0.12)
<b>Larval fish</b>	0.02	0.02
	(0.02)	(0.02)
<b>Unidentified</b>	0.02	0.02
	(0.02)	(0.02)

**Sampling stratum:**  
**BWCO - Backwater, contiguous, offshore**

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**Table 10.1** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Common carp</b>	0.57	0.09	0.94
	(0.20)	(0.06)	(0.35)
<b>Smallmouth buffalo</b>	0.22	0.28	0.17
	(0.09)	(0.13)	(0.12)
<b>Silver redhorse</b>	0.06	0.14	
	(0.03)	(0.07)	
<b>Shorthead redhorse</b>	0.14	0.10	0.17
	(0.05)	(0.07)	(0.07)
<b>Channel catfish</b>	0.32	0.32	0.32
	(0.10)	(0.14)	(0.13)
<b>White bass</b>	0.02		0.03
	(0.02)		(0.03)
<b>Rock bass</b>	0.02		0.03
	(0.02)		(0.03)
<b>Bluegill</b>	0.21		0.38
	(0.11)		(0.19)

<b>Yellow perch</b>	0.09	0.05	0.12
	(0.05)	(0.05)	(0.08)
<b>Freshwater drum</b>	0.05	0.05	0.06
	(0.03)	(0.05)	(0.04)

**Sampling strata:****MCBU - Main channel border, unstructured****SCB - Side channel border**

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**Table 11.1** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Gizzard shad</b>	0.02		0.03
	(0.02)		(0.03)
<b>Common carp</b>	2.48	2.22	2.68
	(1.04)	(2.02)	(0.98)
<b>Smallmouth buffalo</b>	2.15	2.55	1.84
	(0.60)	(1.17)	(0.58)
<b>Silver redhorse</b>	0.22	0.24	0.20
	(0.11)	(0.16)	(0.14)
<b>Shorthead redhorse</b>	0.13	0.12	0.15
	(0.05)	(0.06)	(0.07)
<b>Channel catfish</b>	0.47	0.19	0.69
	(0.16)	(0.15)	(0.26)
<b>Flathead catfish</b>	0.10	0.09	0.12
	(0.05)	(0.09)	(0.05)
<b>Northern pike</b>	0.02		0.03
	(0.02)		(0.03)

<b>White bass</b>	0.03	0.04	0.03
	(0.02)	(0.04)	(0.03)
<b>Rock bass</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Bluegill</b>	0.16		0.29
	(0.06)		(0.11)
<b>Black crappie</b>	1.34	2.63	0.33
	(1.11)	(2.53)	(0.24)
<b>Walleye</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Freshwater drum</b>	0.35	0.61	0.15
	(0.17)	(0.38)	(0.09)

**Sampling strata:****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_4/tb3\\_mn0009.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_4/tb3_mn0009.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 12.1** Mean catch-per-unit-effort and (standard error) for fish collected by seining in Pool 4 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.1](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Bowfin</b>	0.02		0.03
	(0.02)		(0.03)
<b>Gizzard shad</b>	4.04	5.19	3.14
	(2.23)	(4.50)	(1.93)
<b>Spotfin shiner</b>	43.77	13.67	67.25
	(20.52)	(4.21)	(36.62)
<b>Common carp</b>	0.17	0.14	0.19
	(0.09)	(0.09)	(0.15)
<b>Silver chub</b>	0.06	0.03	0.08
	(0.04)	(0.03)	(0.06)
<b>Emerald shiner</b>	66.17	105.00	35.89
	(18.33)	(39.95)	(10.49)
<b>River shiner</b>	0.10	0.08	0.11
	(0.07)	(0.05)	(0.11)
<b>Bigmouth shiner</b>	0.03		0.06
	(0.02)		(0.04)

<b>Spottail shiner</b>	0.02	0.06	
	(0.02)	(0.04)	
<b>Sand shiner</b>	0.49	0.44	0.53
	(0.20)	(0.30)	(0.27)
<b>Mimic shiner</b>	15.79	5.44	23.86
	(9.08)	(3.67)	(16.01)
<b>Pugnose minnow</b>	0.18	0.42	
	(0.18)	(0.42)	
<b>Bluntnose minnow</b>	0.03	0.03	0.03
	(0.02)	(0.03)	(0.03)
<b>Bullhead minnow</b>	13.56	7.19	18.53
	(4.11)	(3.11)	(6.95)
<b>Quillback</b>	0.16	0.36	
	(0.11)	(0.25)	
<b>Bigmouth buffalo</b>	0.02		0.03
	(0.02)		(0.03)
<b>Silver redhorse</b>	0.68	1.56	
	(0.63)	(1.44)	
<b>Golden redhorse</b>	0.03		0.06
	(0.02)		(0.04)
<b>Shorthead redhorse</b>	0.09	0.17	0.03
	(0.06)	(0.14)	(0.03)
<b>Unidentified redhorse</b>	0.06		0.11
	(0.03)		(0.05)
<b>Unidentified sucker</b>	0.02		0.03
	(0.02)		(0.03)
<b>Northern pike</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Brook silverside</b>	0.74	0.17	1.19



	(0.43)	(0.12)	(0.76)
<b>White bass</b>	0.57	0.28	0.81
	(0.19)	(0.12)	(0.33)
<b>Rock bass</b>	0.10	0.17	0.06
	(0.06)	(0.14)	(0.04)
<b>Green sunfish</b>	0.02		0.03
	(0.02)		(0.03)
<b>Bluegill</b>	5.92	7.06	5.03
	(3.36)	(5.47)	(4.24)
<b>Smallmouth bass</b>	0.11	0.08	0.14
	(0.04)	(0.05)	(0.07)
<b>Largemouth bass</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>White crappie</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Black crappie</b>	0.04	0.08	
	(0.02)	(0.05)	
<b>Unidentified sunfish</b>	0.03		0.06
	(0.02)		(0.04)
<b>Western sand darter</b>	0.07	0.17	
	(0.05)	(0.12)	
<b>Johnny darter</b>	0.13	0.11	0.14
	(0.05)	(0.07)	(0.08)
<b>Yellow perch</b>	0.18	0.31	0.08
	(0.13)	(0.28)	(0.06)
<b>Logperch</b>	0.07	0.08	0.06
	(0.03)	(0.05)	(0.04)
<b>River darter</b>	0.09	0.06	0.11
	(0.04)	(0.04)	(0.07)

<b>Walleye</b>	0.08		0.14
	(0.06)		(0.10)
<b>Unidentified Stizostedion</b>	0.02		0.03
	(0.02)		(0.03)
<b>Freshwater drum</b>	0.30	0.25	0.33
	(0.14)	(0.18)	(0.21)
<b>Larval fish</b>	1.43	2.69	0.44
	(1.02)	(2.30)	(0.31)
<b>Unidentified</b>	3.87	1.42	5.78
	(1.78)	(1.23)	(3.03)

**Sampling strata:****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_4/tb3\\_mn0010.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_4/tb3_mn0010.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►

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**Table 14.1** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in Pool 4 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	MCBW
Gizzard shad	28.90
	(15.36)
Spotfin shiner	1.75
	(0.60)
Common carp	5.25
	(2.09)
Silver chub	0.25
	(0.25)
Emerald shiner	226.41
	(62.03)
Mimic shiner	10.58
	(8.36)
Bullhead minnow	9.80
	(6.72)
Quillback	0.50
	(0.34)
Smallmouth buffalo	0.42
	(0.27)

<b>Bigmouth buffalo</b>	0.25
	(0.25)
<b>Silver redhorse</b>	0.33
	(0.21)
<b>River redhorse</b>	0.33
	(0.21)
<b>Shorthead redhorse</b>	4.33
	(2.49)
<b>Black bullhead</b>	0.17
	(0.17)
<b>Flathead catfish</b>	1.50
	(0.43)
<b>White bass</b>	8.17
	(2.39)
<b>Green sunfish</b>	0.50
	(0.50)
<b>Bluegill</b>	6.50
	(3.36)
<b>Pumpkinseed x bluegill</b>	0.17
	(0.17)
<b>Smallmouth bass</b>	4.58
	(2.12)
<b>Largemouth bass</b>	5.42
	(2.75)
<b>Black crappie</b>	0.17
	(0.17)
<b>Logperch</b>	5.25
	(2.80)
<b>Slenderhead darter</b>	0.50

	(0.34)
<b>Sauger</b>	0.83
	(0.40)

**Sampling stratum:**  
**MCBW - Main channel border, wing dam**

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**Table 15.1** Mean catch-per-unit-effort and (standard error) for fish collected by night electrofishing in Pool 4 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Longnose gar	0.42
	(0.19)
Shortnose gar	0.08
	(0.08)
Gizzard shad	47.25
	(19.89)
Spotfin shiner	0.08
	(0.08)
Common carp	6.67
	(0.78)
Silver chub	0.17
	(0.17)
Emerald shiner	3832.17
	(3610.32)
Mimic shiner	2.17
	(0.97)
Bullhead minnow	0.75
	(0.39)

<b>Smallmouth buffalo</b>	0.75
	(0.37)
<b>Bigmouth buffalo</b>	0.17
	(0.11)
<b>Silver redhorse</b>	0.42
	(0.15)
<b>Golden redhorse</b>	0.08
	(0.08)
<b>Shorthead redhorse</b>	2.75
	(1.53)
<b>Yellow bullhead</b>	0.08
	(0.08)
<b>Channel catfish</b>	0.50
	(0.23)
<b>Flathead catfish</b>	1.75
	(0.65)
<b>Northern pike</b>	0.25
	(0.18)
<b>Burbot</b>	0.17
	(0.11)
<b>Brook silverside</b>	0.08
	(0.08)
<b>White bass</b>	14.67
	(3.48)
<b>Rock bass</b>	0.17
	(0.11)
<b>Green sunfish</b>	0.83
	(0.24)
<b>Orangespotted sunfish</b>	0.08

	(0.08)
<b>Bluegill</b>	10.83
	(3.21)
<b>Green x bluegill sunfish</b>	0.08
	(0.08)
<b>Pumpkinseed x bluegill</b>	0.08
	(0.08)
<b>Smallmouth bass</b>	11.58
	(2.88)
<b>Largemouth bass</b>	3.25
	(1.26)
<b>White crappie</b>	1.75
	(0.64)
<b>Black crappie</b>	4.67
	(2.02)
<b>Yellow perch</b>	0.08
	(0.08)
<b>Logperch</b>	0.92
	(0.26)
<b>Slenderhead darter</b>	0.08
	(0.08)
<b>Sauger</b>	12.17
	(4.84)
<b>Walleye</b>	4.17
	(1.21)
<b>Freshwater drum</b>	6.83
	(2.06)

**Sampling stratum:  
TWZ - Tailwater**



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**Table 16.1** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in Pool 4 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
<b>Shortnose gar</b>	0.19
	(0.19)
<b>Common carp</b>	10.07
	(6.97)
<b>Silver redhorse</b>	0.15
	(0.15)
<b>Shorthead redhorse</b>	1.41
	(0.38)
<b>Channel catfish</b>	1.00
	(0.25)
<b>Flathead catfish</b>	0.46
	(0.46)
<b>Northern pike</b>	0.19
	(0.19)
<b>White bass</b>	4.35
	(1.90)
<b>Bluegill</b>	0.30
	(0.19)

<b>Smallmouth bass</b>	0.19
	(0.19)
<b>White crappie</b>	1.70
	(0.55)
<b>Black crappie</b>	4.83
	(2.46)
<b>Sauger</b>	1.99
	(1.34)
<b>Freshwater drum</b>	20.28
	(7.23)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 17.1** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Pool 4 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
<b>Bowfin</b>	0.23
	(0.23)
<b>Gizzard shad</b>	1.45
	(0.70)
<b>Spotfin shiner</b>	10.53
	(6.01)
<b>Speckled chub</b>	20.20
	(13.98)
<b>Silver chub</b>	0.90
	(0.70)
<b>Golden shiner</b>	0.18
	(0.18)
<b>Emerald shiner</b>	2441.86
	(1470.92)
<b>River shiner</b>	0.18
	(0.18)
<b>Mimic shiner</b>	90.72
	(45.95)

<b>Bluntnose minnow</b>	0.18
	(0.18)
<b>Bullhead minnow</b>	33.47
	(17.78)
<b>Black bullhead</b>	0.23
	(0.23)
<b>Flathead catfish</b>	0.18
	(0.18)
<b>Burbot</b>	0.18
	(0.18)
<b>White bass</b>	0.41
	(0.25)
<b>Bluegill</b>	1.18
	(0.75)
<b>Black crappie</b>	0.18
	(0.18)
<b>Logperch</b>	0.23
	(0.23)
<b>River darter</b>	0.69
	(0.69)
<b>Freshwater drum</b>	1.62
	(0.71)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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**Table 18.1** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Pool 4 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Common carp	3.27
	(1.87)
Black crappie	0.08
	(0.08)
Freshwater drum	0.27
	(0.12)

**Sampling stratum:**  
**TWZ - Tailwater**

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**Table 19.1** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Pool 4 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Silver lamprey	0.08
	(0.08)
Shovelnose sturgeon	0.09
	(0.09)
Common carp	7.56
	(2.82)
Smallmouth buffalo	0.34
	(0.24)
Black buffalo	0.08
	(0.08)
Channel catfish	0.82
	(0.62)
Flathead catfish	1.39
	(0.80)
Sauger	0.33
	(0.33)
Freshwater drum	0.26
	(0.17)



## **Sampling stratum: TWZ - Tailwater**

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**Table 21.1** Mean catch-per-unit-effort and (standard error) for fish collected by bottom trawling in Pool 4 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Lake sturgeon	0.08
	(0.08)
Shovelnose sturgeon	4.92
	(1.94)
Gizzard shad	1.08
	(0.57)
Common carp	0.25
	(0.13)
Speckled chub	1.08
	(0.48)
Silver chub	0.25
	(0.18)
Mimic shiner	0.25
	(0.18)
Bullhead minnow	0.08
	(0.08)
White sucker	0.08
	(0.08)

<b>Blue sucker</b>	0.08
	(0.08)
<b>Smallmouth buffalo</b>	0.08
	(0.08)
<b>Shorthead redhorse</b>	0.08
	(0.08)
<b>Channel catfish</b>	3.83
	(1.99)
<b>Flathead catfish</b>	0.08
	(0.08)
<b>River darter</b>	0.75
	(0.59)
<b>Sauger</b>	0.67
	(0.40)
<b>Walleye</b>	0.75
	(0.58)
<b>Freshwater drum</b>	5.25
	(1.86)

**Sampling stratum:  
TWZ - Tailwater**

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## Pool 4 Length Distributions

Length distributions (length) as a percentage of catch (percent) for selected species of interest collected by the Long Term Resource Monitoring Program. Fish species are listed in phylogenetical order following Robins et al. (1991) nomenclature. In some instances, meaningful biological interpretation of these distributions may be limited by small sample size or size selectivity of the gear (Anderson and Neumann 1996). Some fish histograms with small sample sizes (<100) are included because of local interest, while others were omitted (reach dependent). Scientific names for the species listed can be found in [Table 1](#).

Figure*	Species	Method
<a href="#">2.1</a>	Gizzard shad	Electrofishing
<a href="#">3.1</a>	Common carp	Electrofishing
<a href="#">4.1</a>	Smallmouth buffalo	Electrofishing
<a href="#">5.1</a>	Smallmouth buffalo	Hoop netting
<a href="#">6.1</a>	Channel catfish	Electrofishing
<a href="#">7.1</a>	Channel catfish	Hoop netting
<a href="#">8.1</a>	Northern pike	Electrofishing
<a href="#">9.1</a>	Northern pike	Fyke netting
<a href="#">10.1</a>	White bass	Electrofishing
<a href="#">11.1</a>	Bluegill	Electrofishing
<a href="#">12.1</a>	Bluegill	Fyke netting
<a href="#">13.1</a>	Largemouth bass	Electrofishing
<a href="#">14.1</a>	White crappie	Fyke netting
<a href="#">15.1</a>	Black crappie	Fyke netting

<a href="#">16.1</a>	Sauger	Electrofishing
<a href="#">17.1</a>	Walleye	Electrofishing
<a href="#">18.1</a>	Freshwater drum	Electrofishing
<a href="#">19.1</a>	Freshwater drum	Fyke netting
<p>*Figure numbers are not always in sequence because some species were not caught in some study areas. Figure numbers for each species and gear type are consistent among study areas.</p>		

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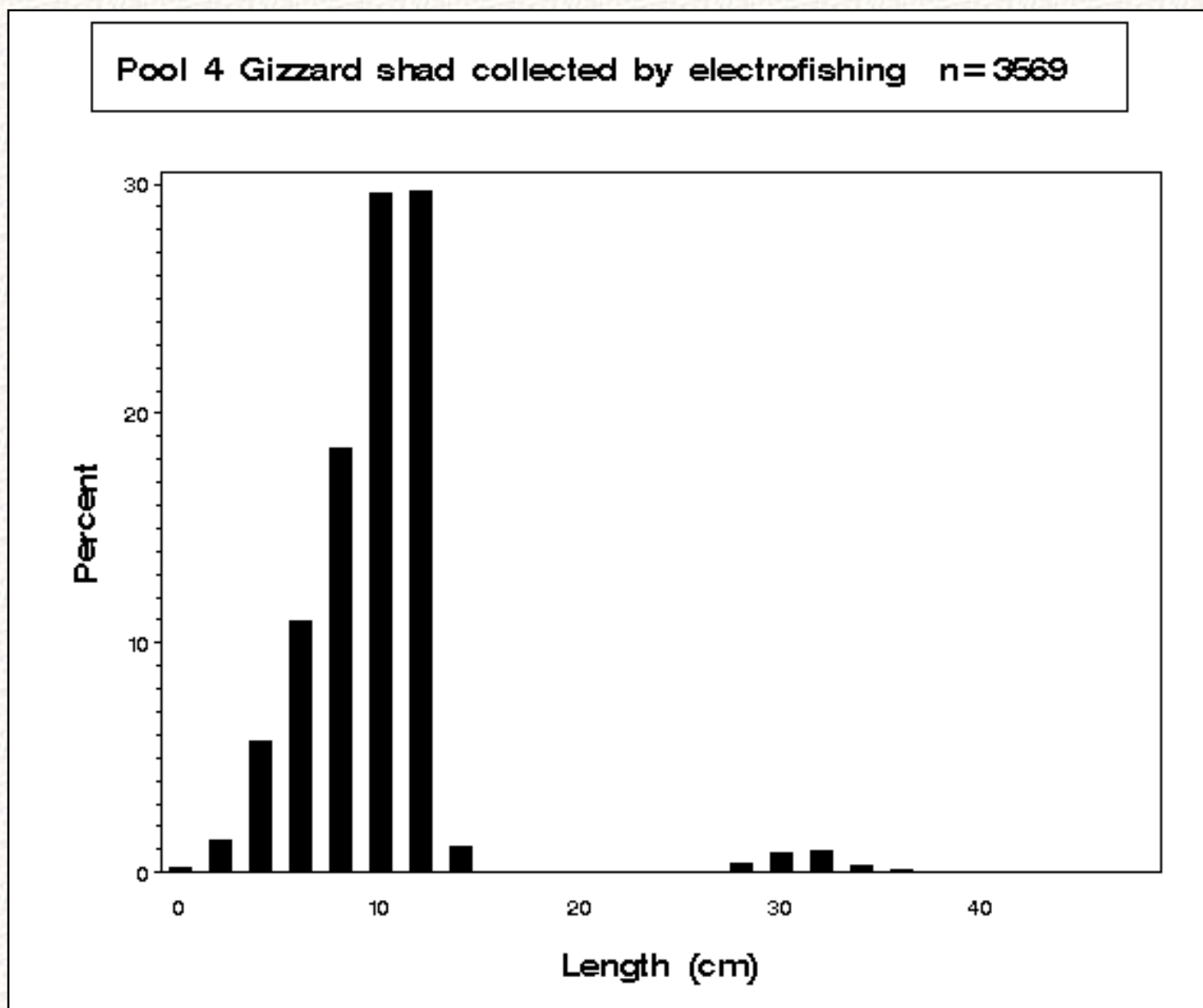
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**Figure 2.1** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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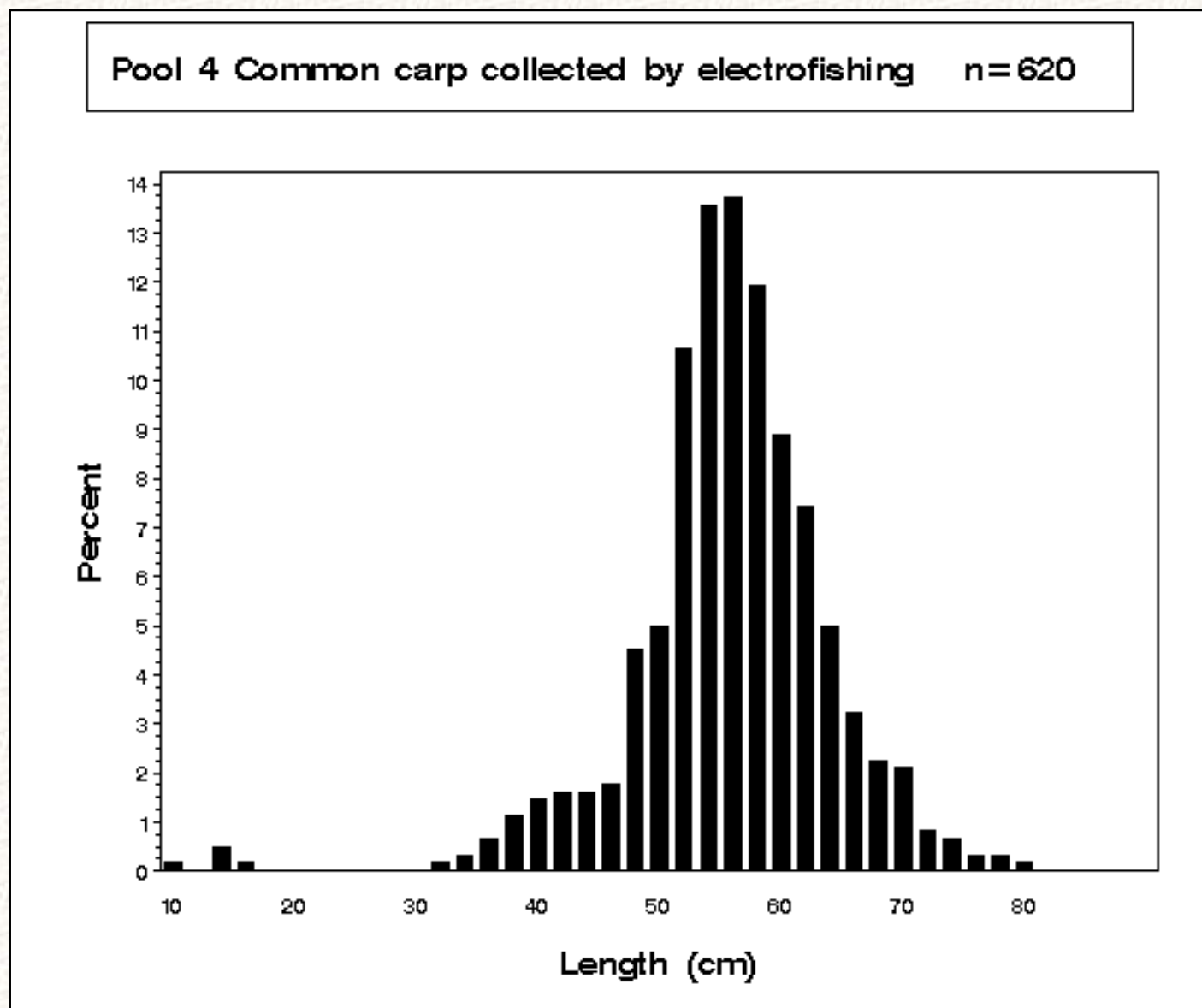
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**Figure 3.1** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.





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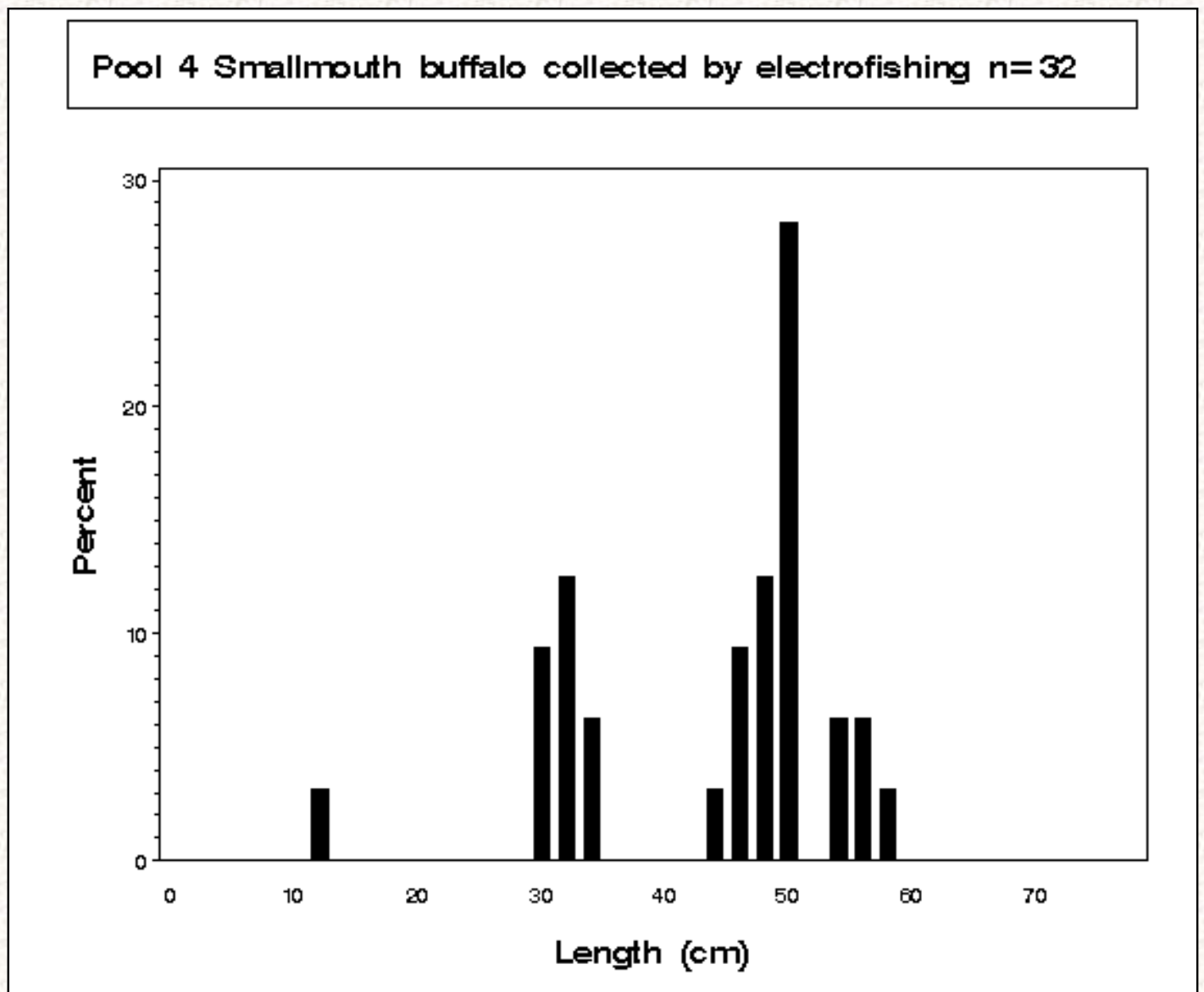
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**Figure 4.1** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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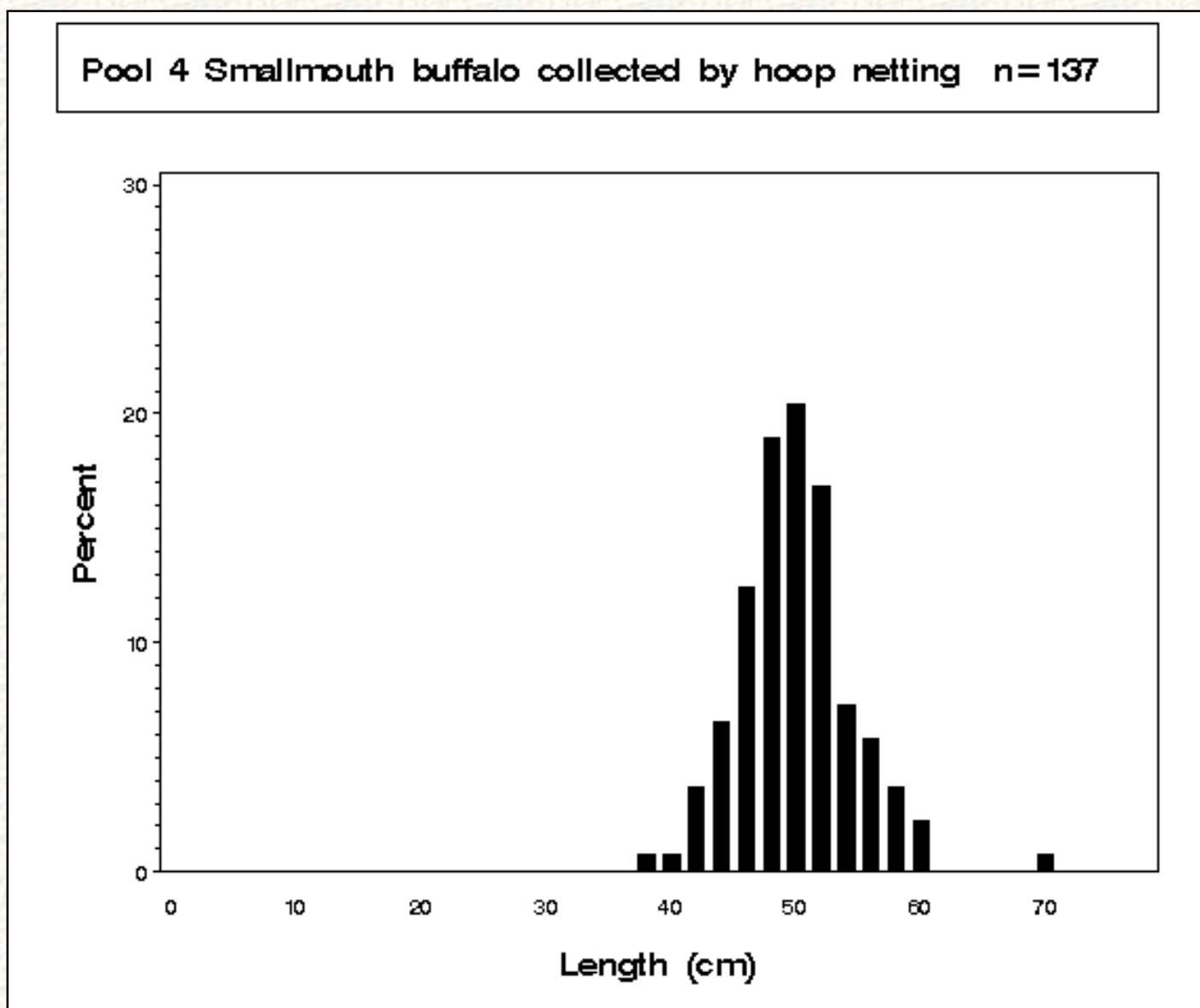
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**Figure 5.1** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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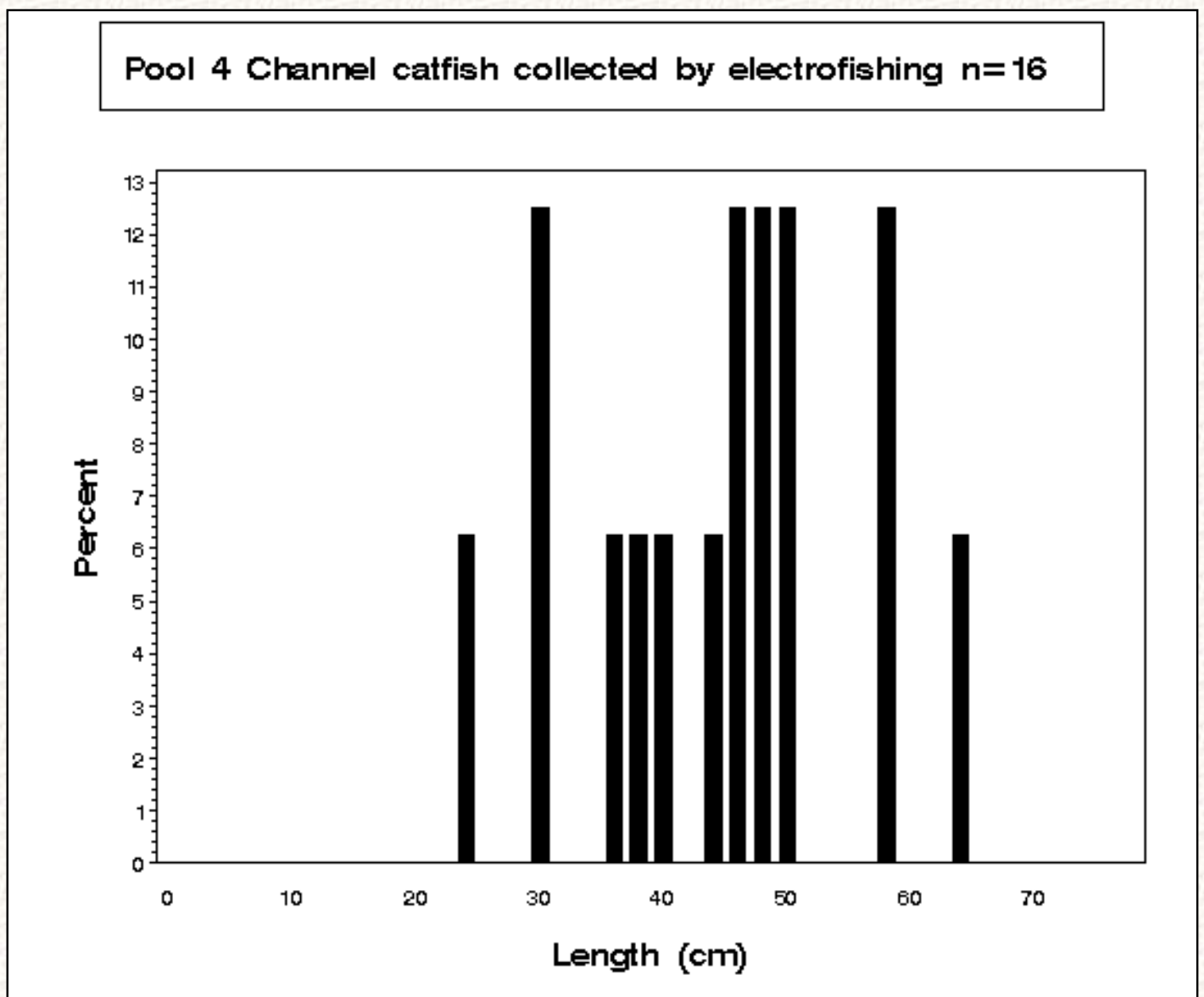
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**Figure 6.1** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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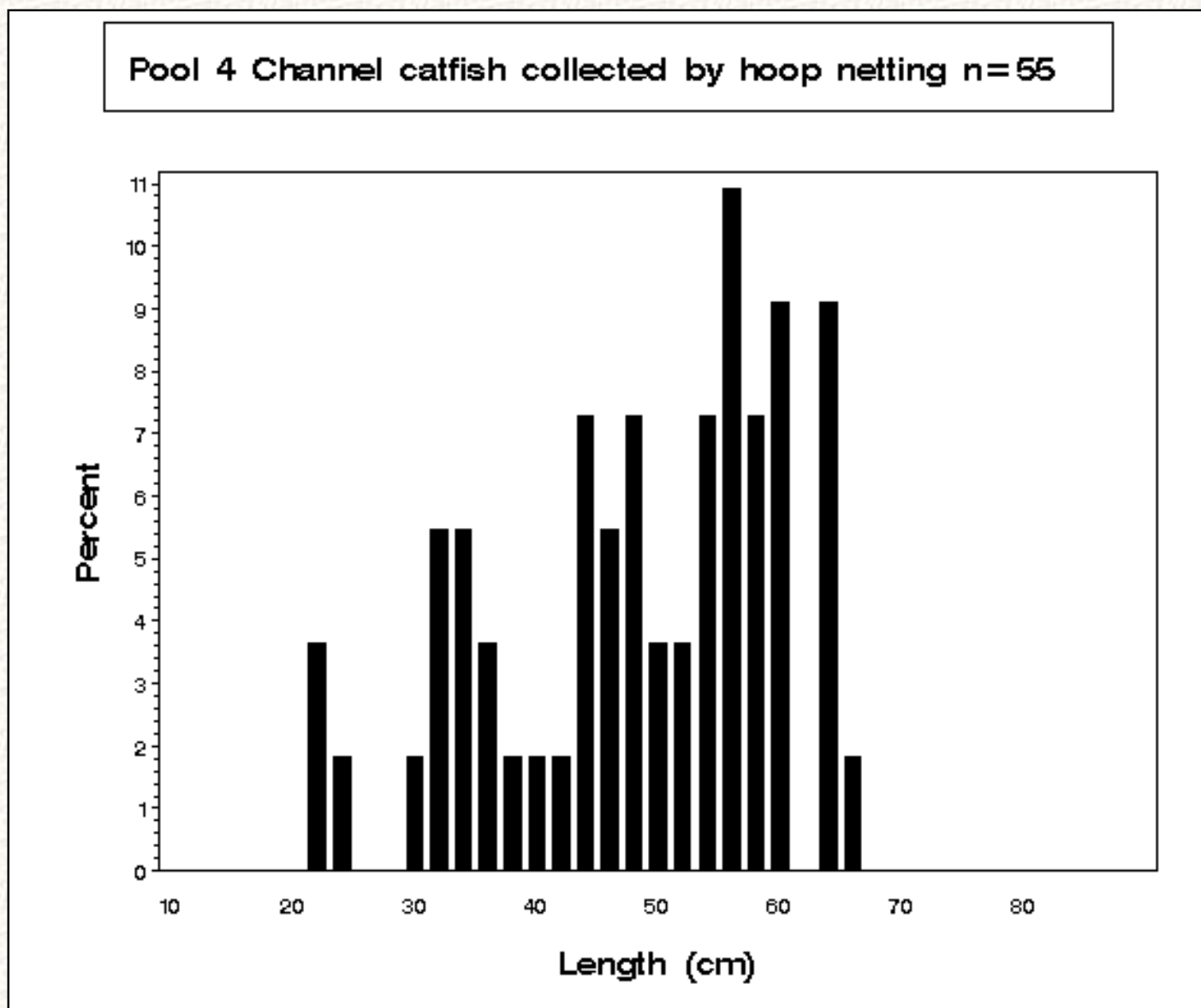
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**Figure 7.1** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.





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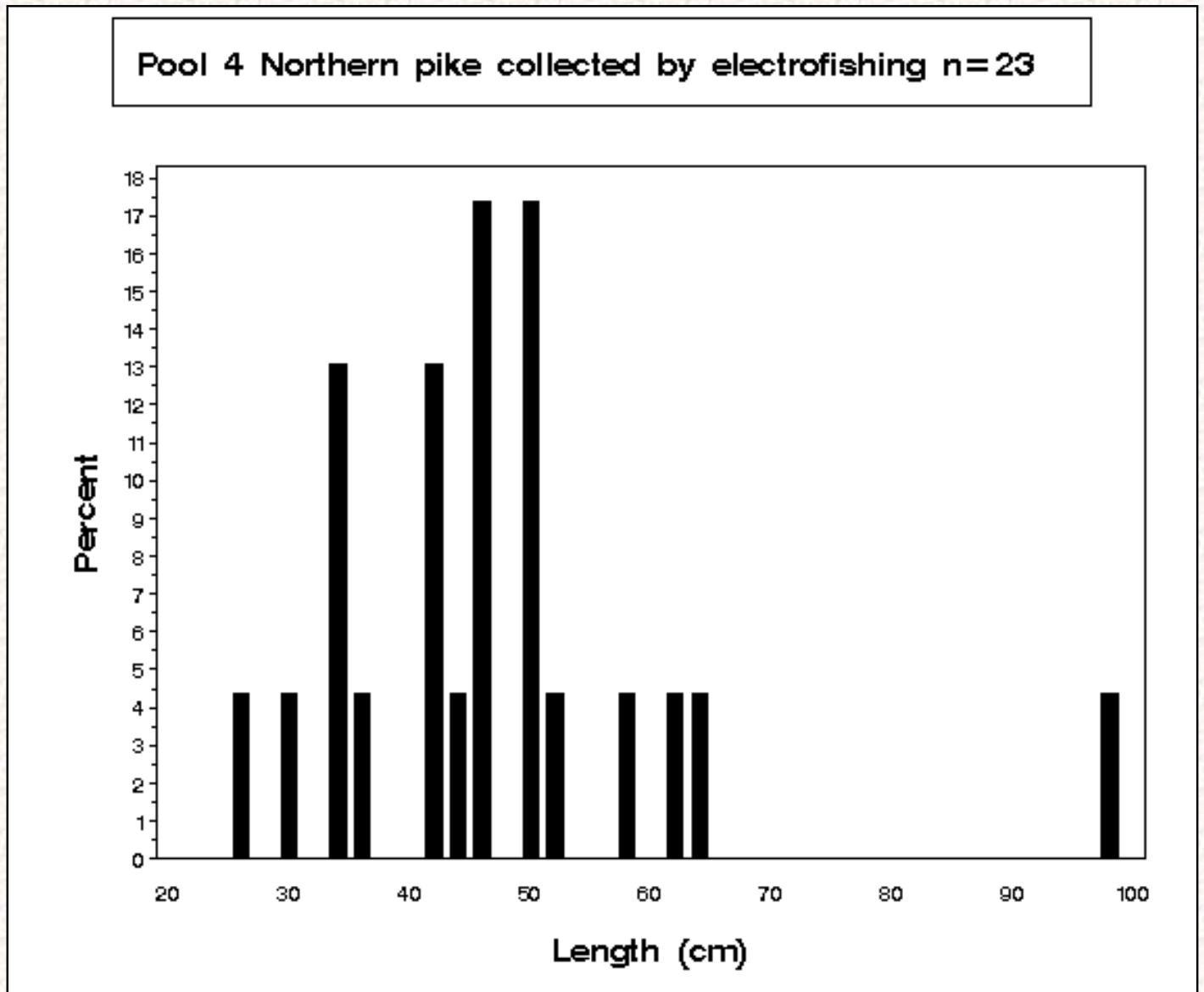
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**Figure 8.1** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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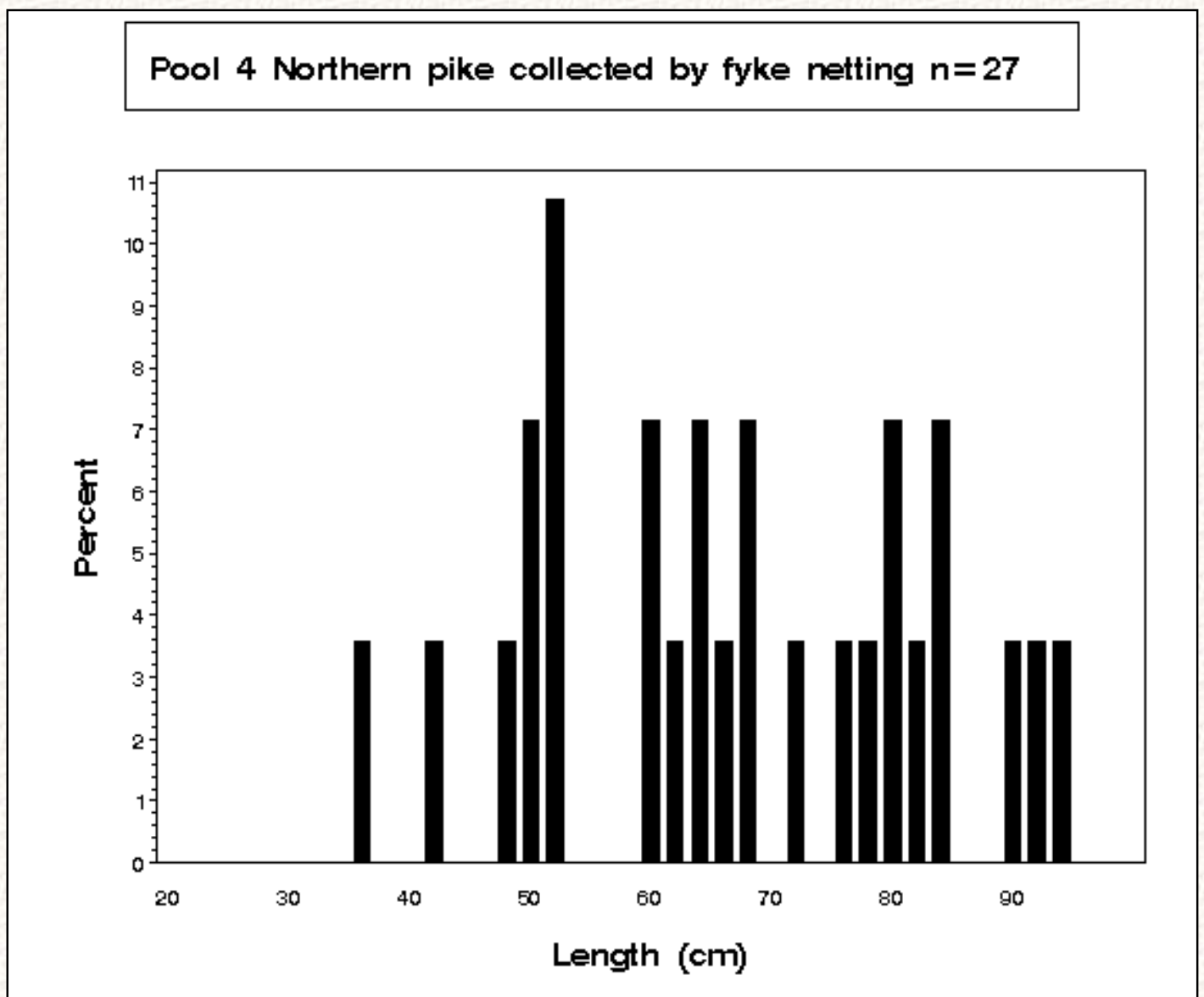
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**Figure 9.1** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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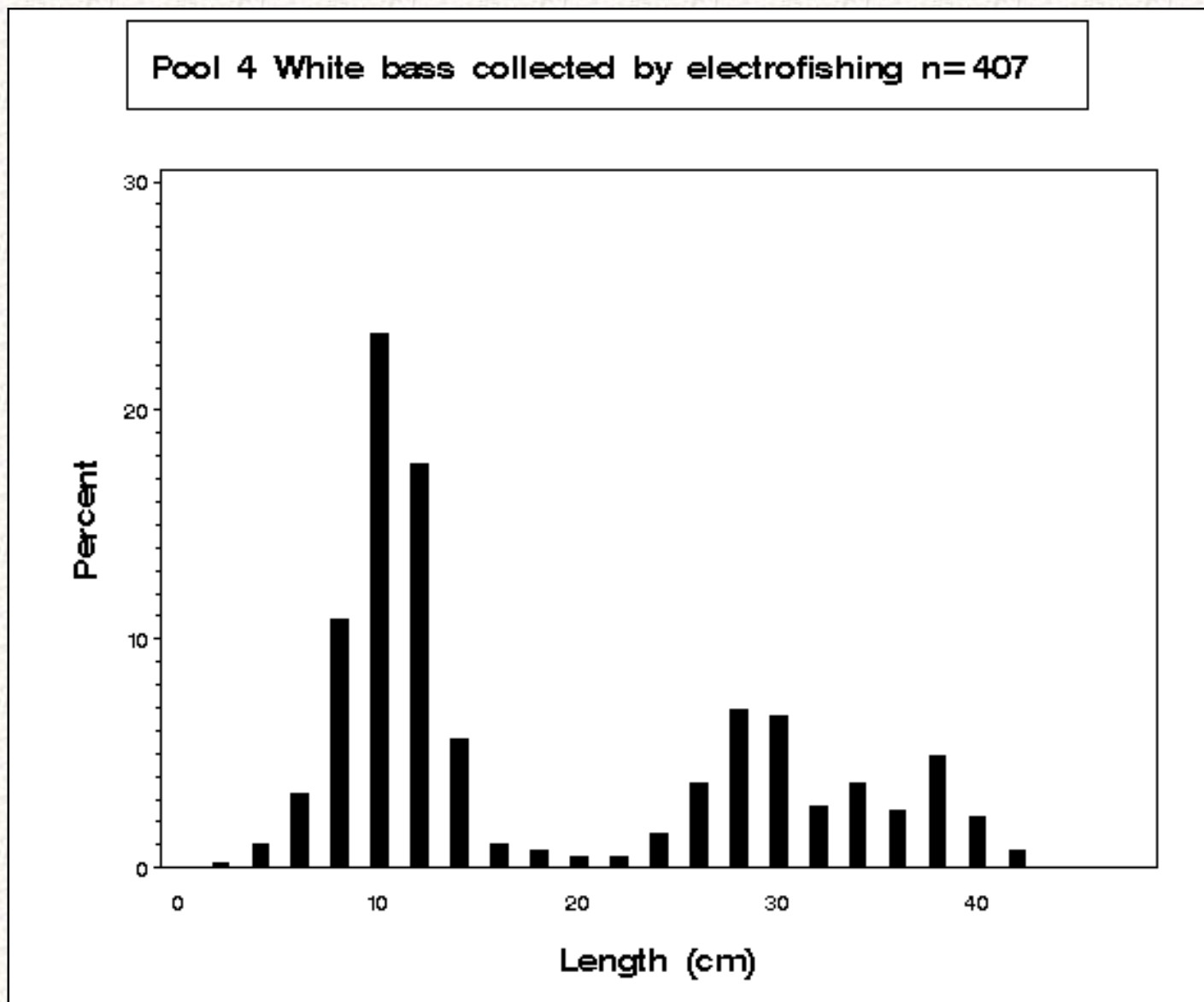
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**Figure 10.1** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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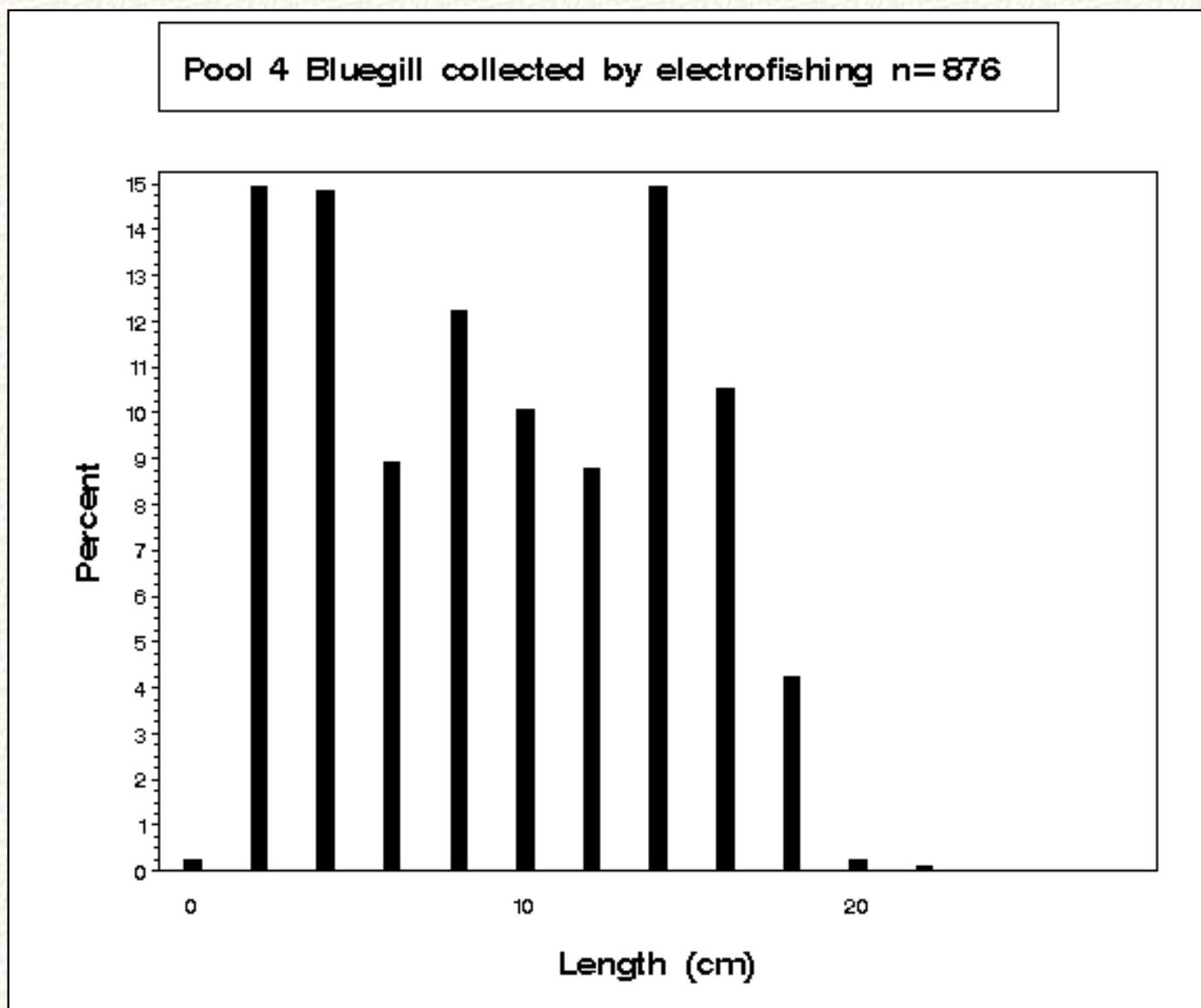
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**Figure 11.1** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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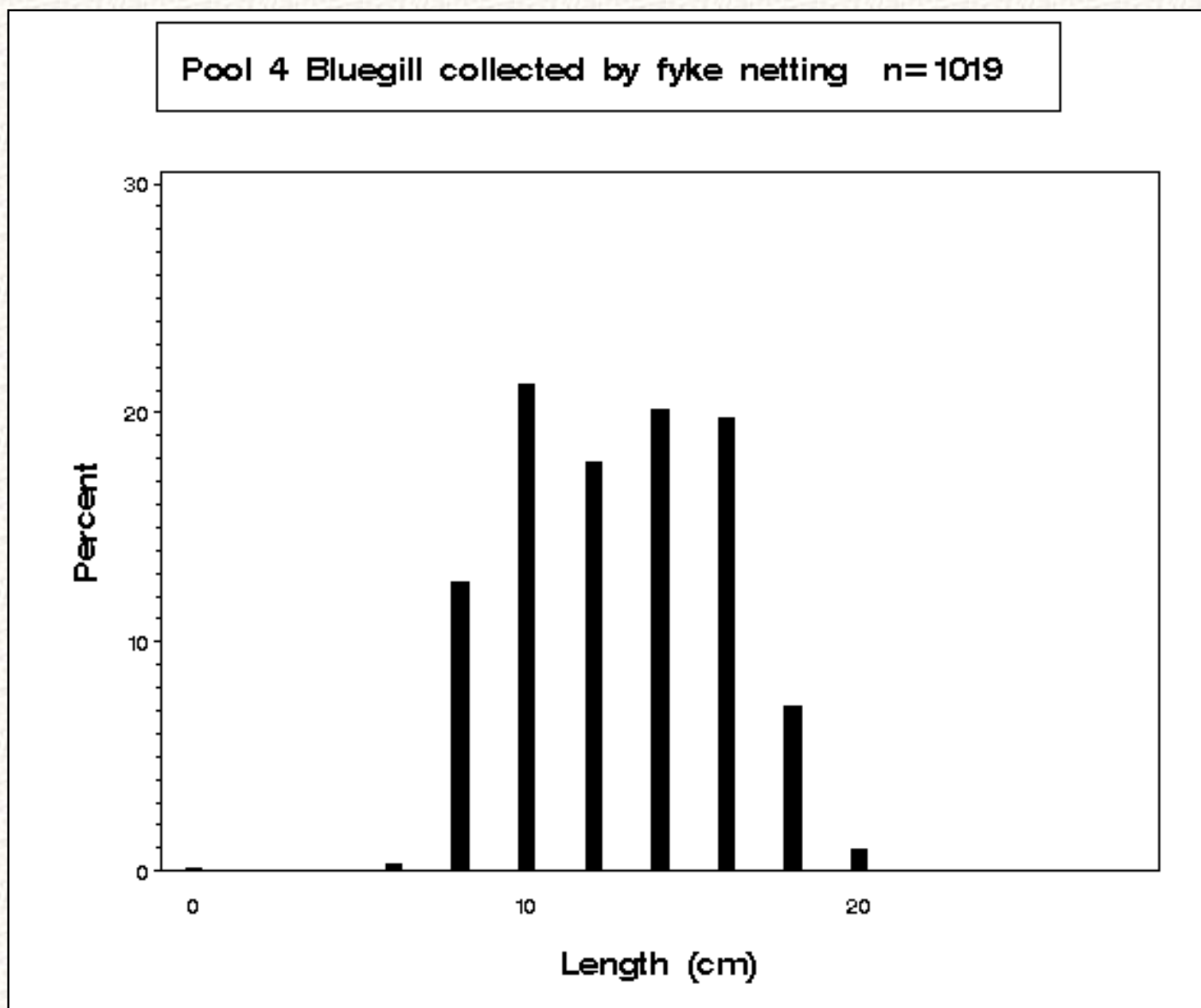
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**Figure 12.1** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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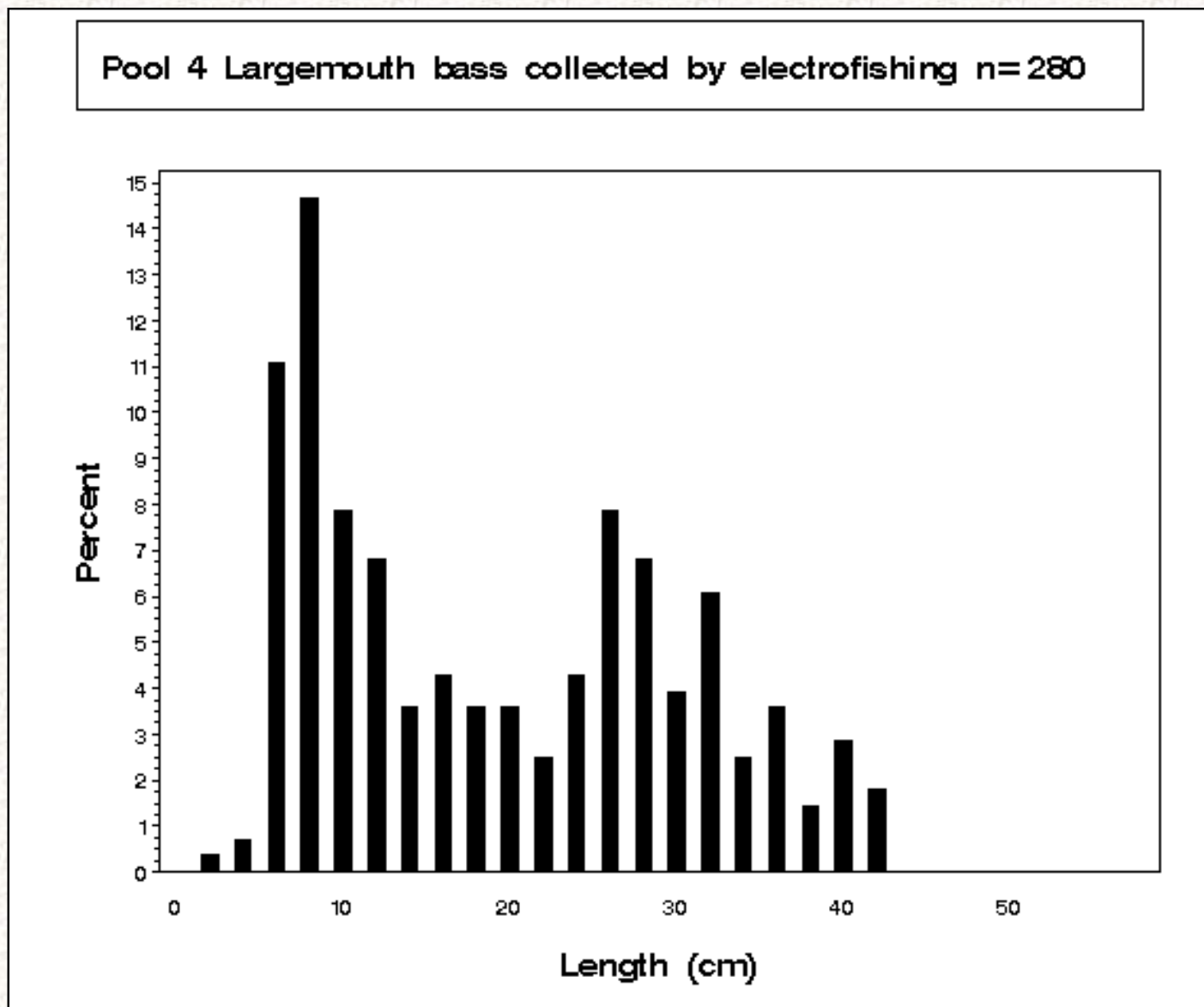
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**Figure 13.1** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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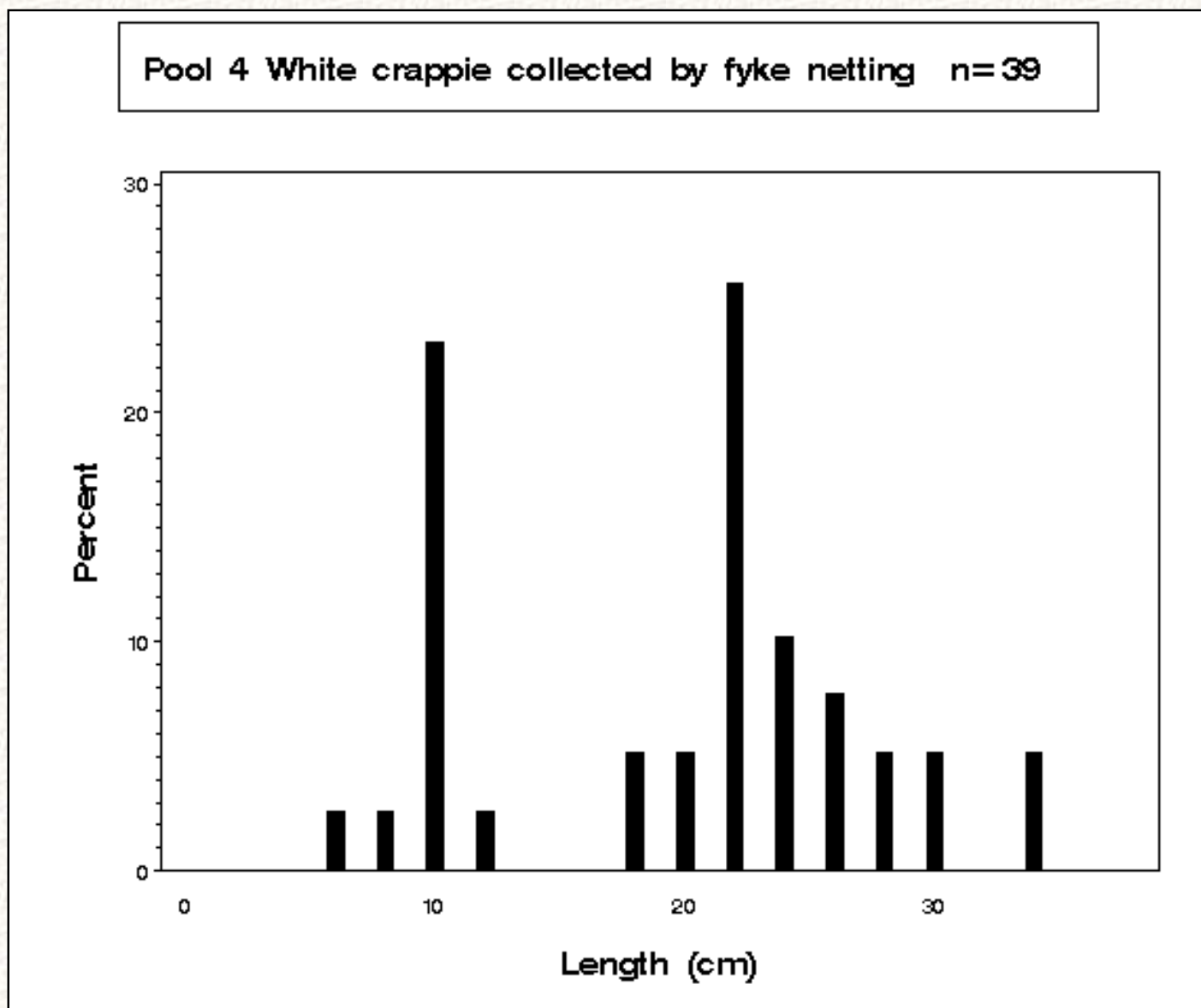
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**Figure 14.1** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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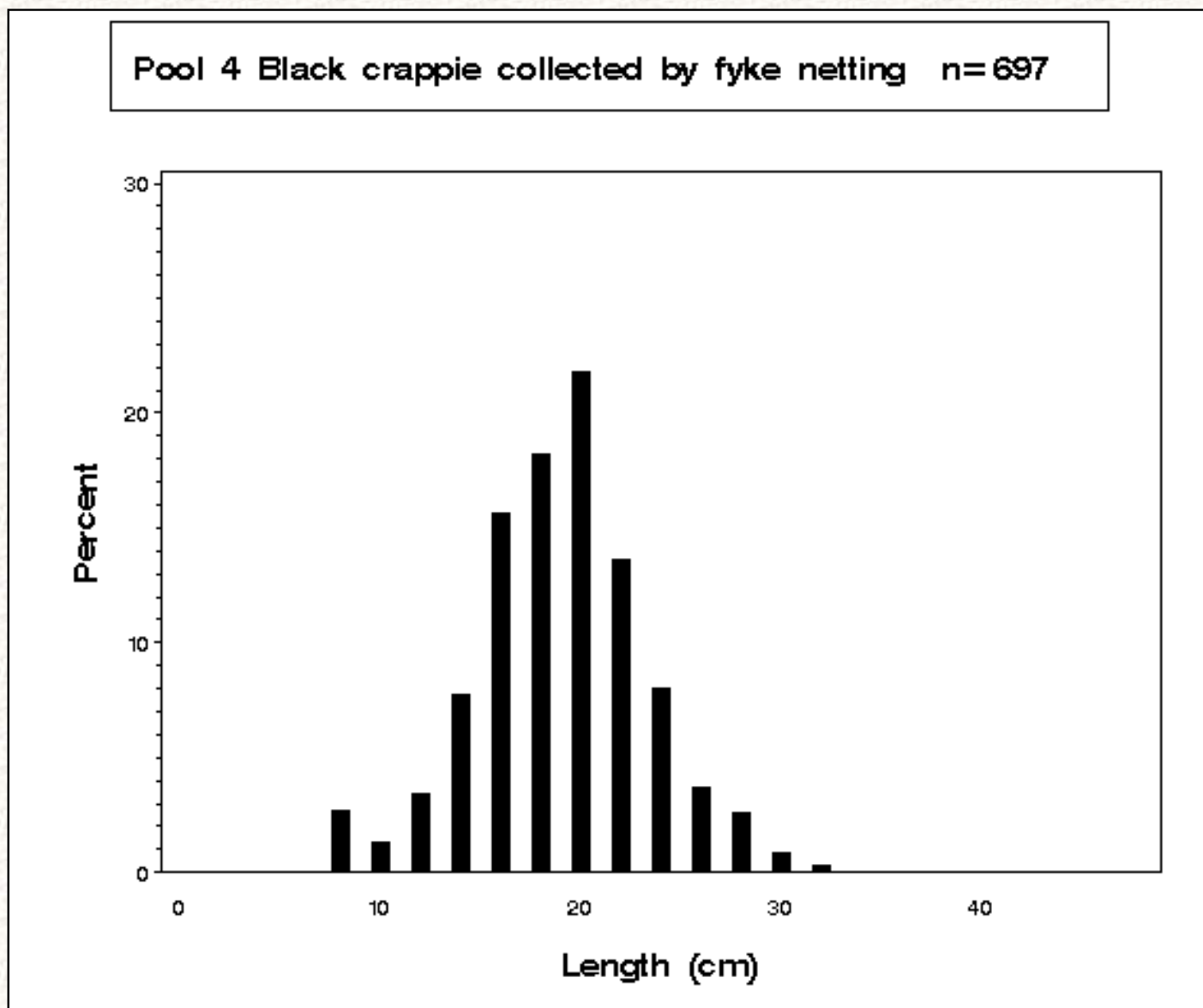
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**Figure 15.1** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.





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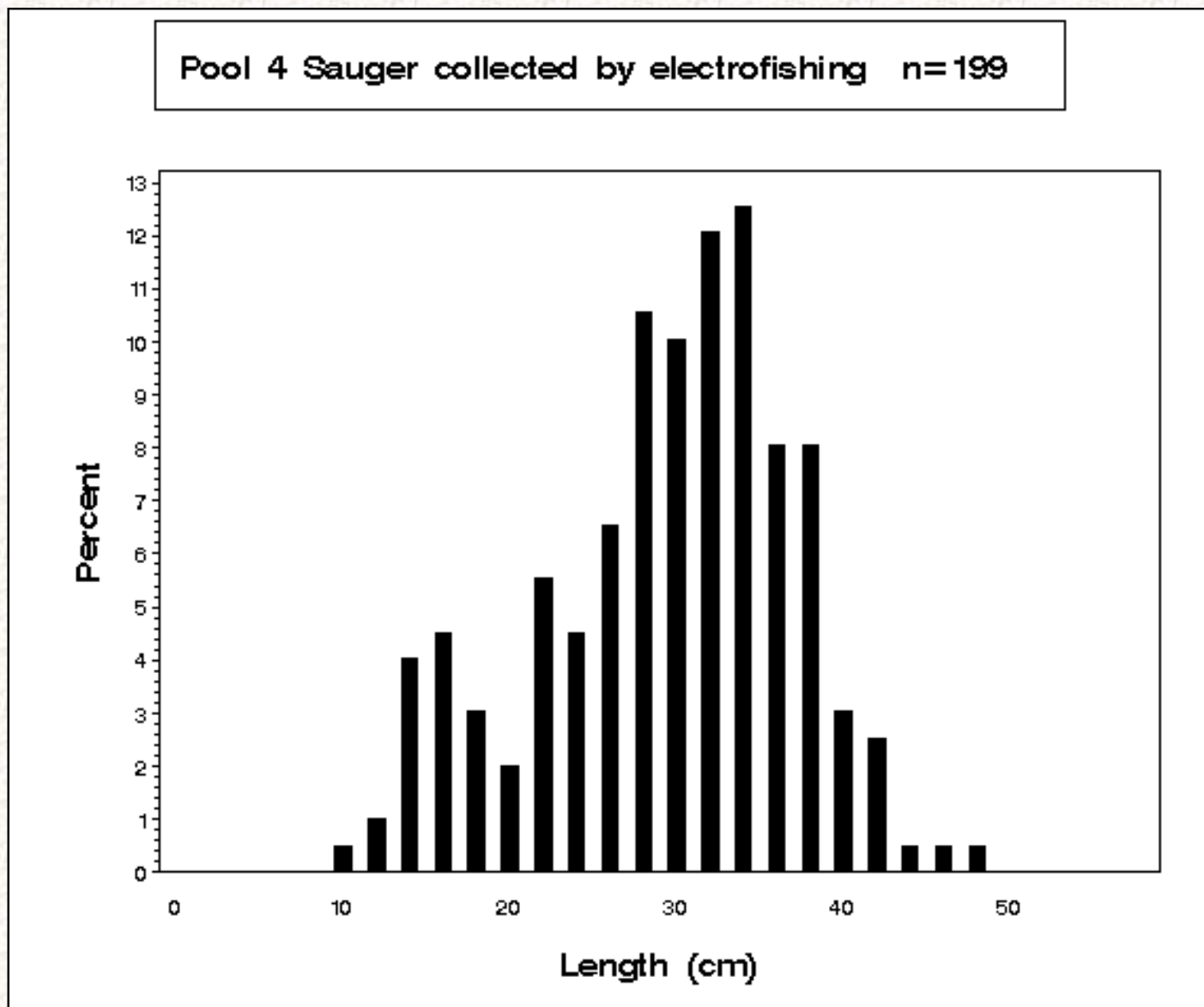
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**Figure 16.1** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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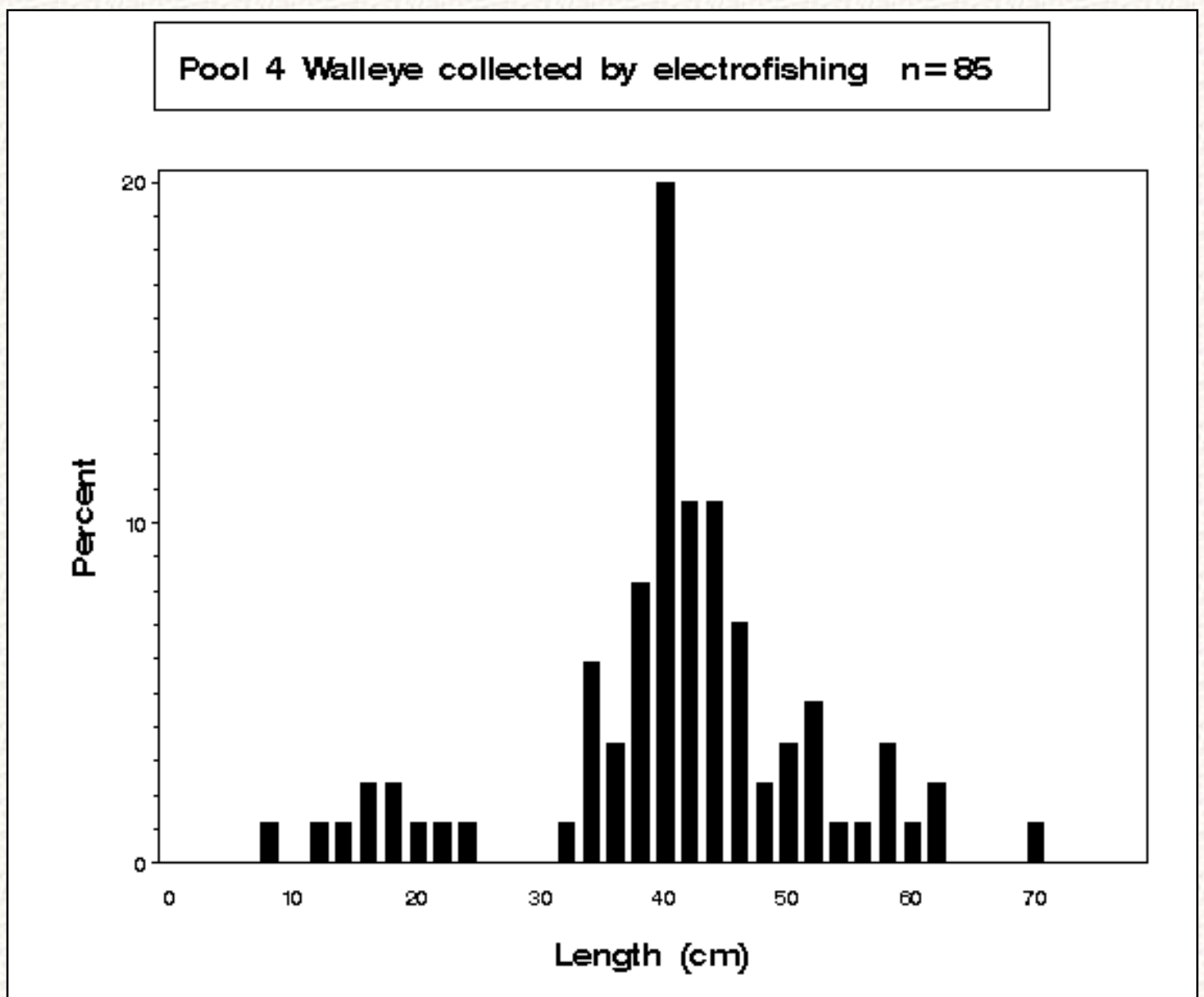
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**Figure 17.1** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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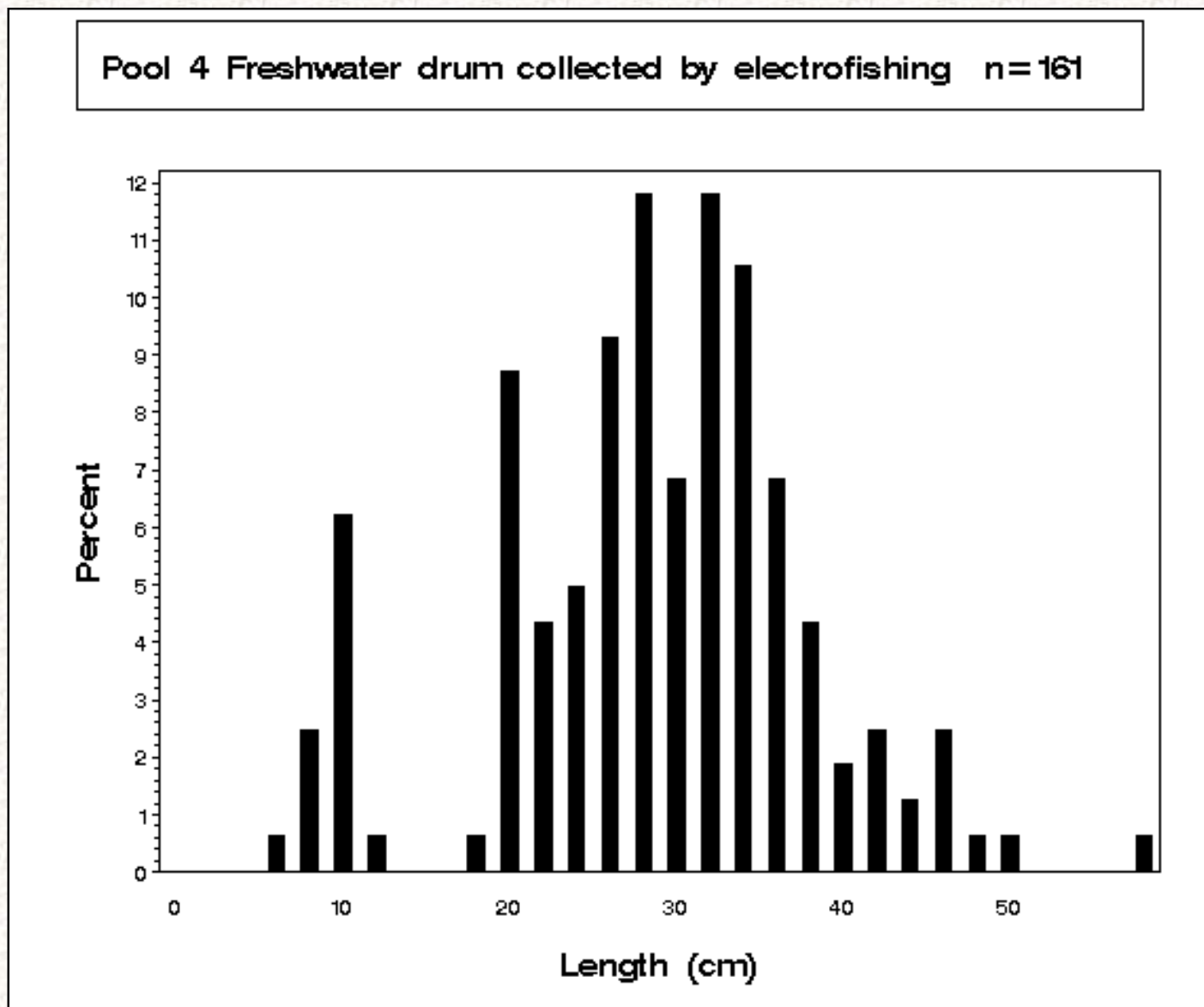
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**Figure 18.1** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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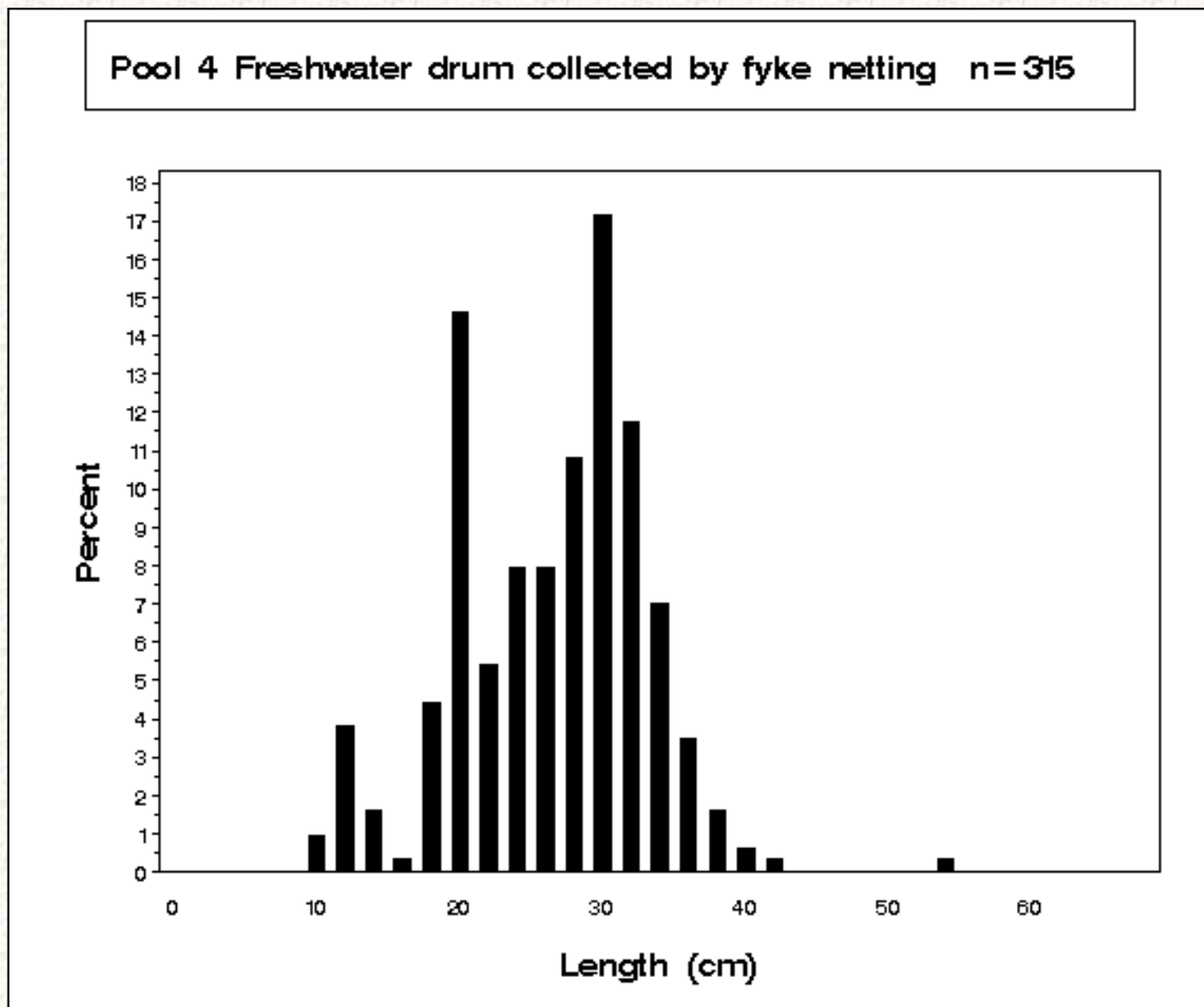
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**Figure 19.1** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.





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## Pool 8, Upper Mississippi River 2000 Fish Collection Summary

This report is a summary of the [Long Term Resource Monitoring Program's](#) (LTRMP) fish collection efforts conducted by the [Onalaska Field Station](#) on [Pool 8](#), Upper Mississippi River during 2000. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- Because of budget constraints, a 29% reduction in total effort (from 1999 to present) was implemented. The greatest reductions occurred in the backwater, impounded, main channel border, and wing dam strata ([Table 2.2](#)).
- 390 fish collections were conducted using 10 gear types ([Table 2.2](#)).
- Water levels did not affect sample allocations ([Table 2.2](#); [Figure 1.2](#)).
- Of the 390 fish collections, 346 were from randomly selected sites. Fifty-four collections were made at fixed sites.
- Backwater, main channel border, and side channel border strata received the most sampling effort ([Table 2.2](#)).
- 52,041 fish were collected representing 74 species and 6 hybrids ([Table 3.2](#)).
- Historical fish distribution records for the Upper Mississippi River (Pitlo et al. 1995) document 99 fish species from Pool 8.
- The LTRMP species total for Pool 8 before the 2000 season was 90; no new species were added to this total since 1997.
- One goldeye was collected, a Wisconsin-listed endangered species ([Table 3.2](#)).
- One blue sucker, 59 river redhorse, and 1 black buffalo all of which are threatened

in Wisconsin were collected ([Table 3.2](#)).

- Mean catch-per-unit-effort and standard effort for fish collected by gears using stratified random ([Tables 4.2-12.2](#)) and fixed-site sampling ([Tables 15.2-21.2](#)) for each stratum are shown.
- Length distributions for selected species of fish are shown in [Figures 2.2 to 19.2](#).

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**Table 2.2** Allocation of fish sampling effort among strata in Pool 8 of the Upper Mississippi River during 2000. Table entries are numbers of successfully completed standardized monitoring collections.

**Sampling period = 1: June 15–July 31**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	6		6	4	4	4				24
Fyke net	10					4				14
Large hoop net			4	4					2	10
Small hoop net			4	4					2	10
Mini fyke net	8		4	4		4			2	22
Night electrofishing			4	4	4				4	16
Seine			8	8					4	20
Trawling									4	4
Tandem fyke net		4					2			6
Tandem mini fyke net		4								4
<b>Subtotal</b>	<b>24</b>	<b>8</b>	<b>30</b>	<b>28</b>	<b>8</b>	<b>12</b>	<b>2</b>	<b>0</b>	<b>18</b>	<b>130</b>

**Sampling period = 2: August 1–September 14**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	6		6	4	4	4				24
Fyke net	10					4				14
Large hoop net			4	4					2	10
Small hoop net			4	4					2	10

Mini fyke net	8		4	4		4			2	22
Night electrofishing			4	4	4				4	16
Seine			8	8					4	20
Trawling									4	4
Tandem fyke net		4					2			6
Tandem mini fyke net		4								4
<b>Subtotal</b>	<b>24</b>	<b>8</b>	<b>30</b>	<b>28</b>	<b>8</b>	<b>12</b>	<b>2</b>	<b>0</b>	<b>18</b>	<b>130</b>

**Sampling period = 3: September 15–October 31**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	6		6	4	4	4				24
Fyke net	10					4				14
Large hoop net			4	4					2	10
Small hoop net			4	4					2	10
Mini fyke net	8		4	4		4			2	22
Night electrofishing			4	4	4				4	16
Seine			8	8					4	20
Trawling									4	4
Tandem fyke net		4					2			6
Tandem mini fyke net		4								4
<b>Subtotal</b>	<b>24</b>	<b>8</b>	<b>30</b>	<b>28</b>	<b>8</b>	<b>12</b>	<b>2</b>	<b>0</b>	<b>18</b>	<b>130</b>
<b>Total</b>	<b>72</b>	<b>24</b>	<b>90</b>	<b>84</b>	<b>24</b>	<b>36</b>	<b>6</b>	<b>0</b>	<b>54</b>	<b>390</b>

**Sampling strata:**

**BWCS - Backwater, contiguous, shoreline**

**BWCO - Backwater, contiguous, offshore**

**SCB - Side channel border**

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**IMPS - Impounded, shoreline**

**IMPO - Impounded, offshore**

**TRI - Tributary mouth**

## TWZ - Tailwater

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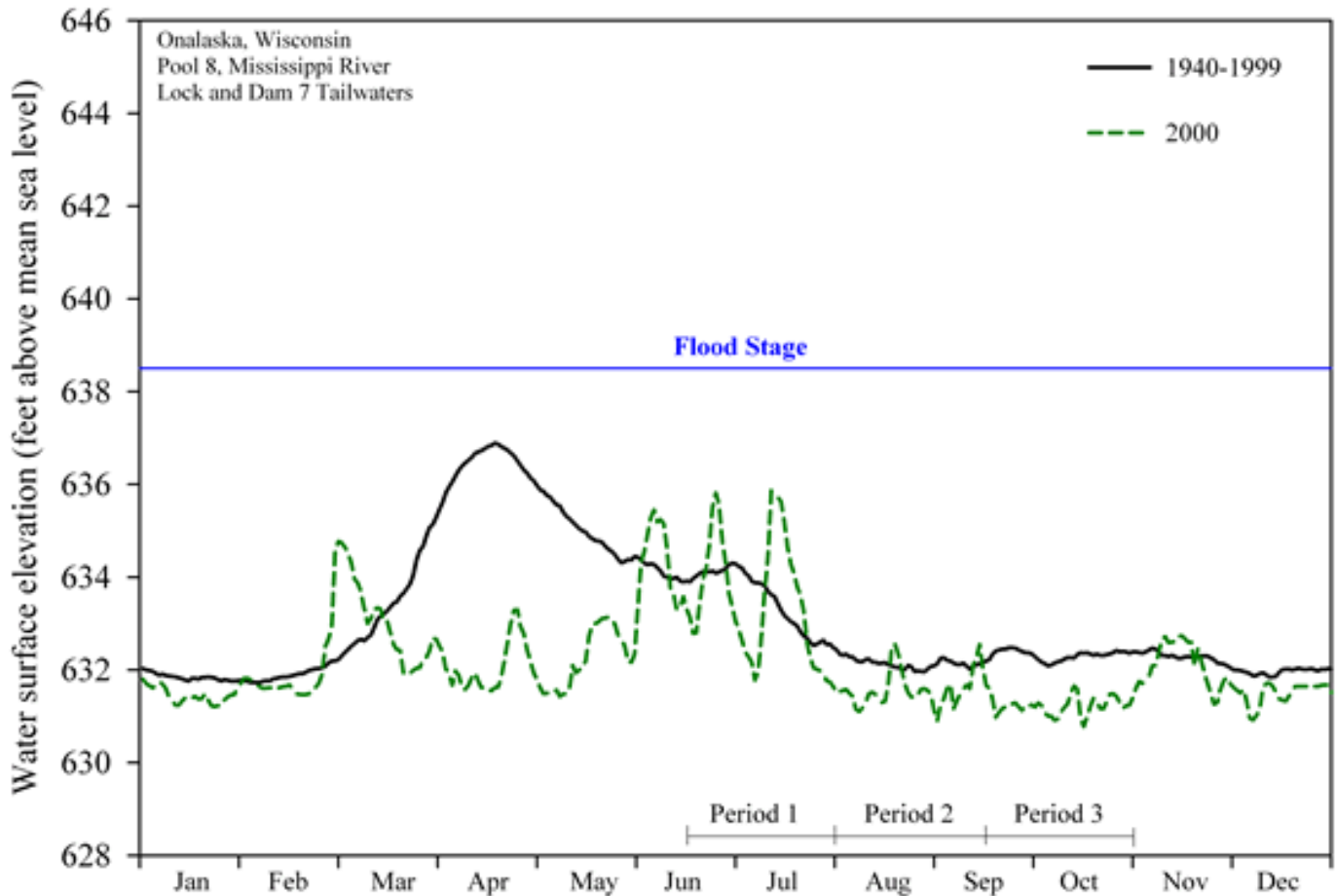


Figure 1.2 Daily water surface elevation from Lock and Dam 7 for Pool 8, Upper Mississippi River, during 2000 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski et al. 1995).

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**Table 3.2** Total catches, by gear type, of fish collected in Pool 8 of the Upper Mississippi River during 2000. See [Table 2.2](#) for the list of sampling gears actually deployed in this study reach.

Species	Common name	Scientific name	D	N	F	X	M	Y	S	HS	HL	G	TA	T	Total
1	Chestnut lamprey	<i>Ichthyomyzon castaneus</i>	2	6	-	-	-	-	-	-	-	-	-	-	8
2	Silver lamprey	<i>I. unicuspis</i>	5	10	2	-	-	-	-	-	-	-	-	-	17
3	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	-	-	-	1	1
4	Longnose gar	<i>Lepisosteus osseus</i>	9	16	38	13	14	-	3	-	1	-	-	-	94
5	Shortnose gar	<i>L. platostomus</i>	6	4	161	30	38	2	-	-	-	-	-	-	241
6	Bowfin	<i>Amia calva</i>	11	5	28	49	3	-	-	-	-	-	-	-	96
7	Goldeye	<i>Hiodon alosoides</i>	-	-	-	-	-	1	-	-	-	-	-	-	1
8	Mooneye	<i>H. tergisus</i>	3	35	1	2	-	-	-	-	-	-	-	-	41
9	Gizzard shad	<i>Dorosoma cepedianum</i>	868	298	60	34	35	1	336	-	-	-	-	-	1632
10	Spotfin shiner	<i>Cyprinella spiloptera</i>	1437	709	-	-	963	51	2644	-	-	-	-	-	5804
11	Common carp	<i>Cyprinus carpio</i>	212	158	79	36	96	2	20	4	1	-	-	2	610
12	Brassy minnow	<i>Hybognathus hankinsoni</i>	-	-	-	-	1	-	39	-	-	-	-	-	40
13	Mississippi silvery minnow	<i>H. nuchalis</i>	-	-	-	-	-	-	2	-	-	-	-	-	2
14	Silver chub	<i>Macrhybopsis storeriana</i>	-	3	-	-	-	-	-	1	-	-	-	-	4
15	Golden shiner	<i>Notemigonus crysoleucas</i>	67	12	-	1	33	1	7	-	-	-	-	-	121
16	Emerald shiner	<i>Notropis atherinoides</i>	942	2741	-	-	449	25	3198	-	-	-	-	-	7355
17	River shiner	<i>N. blennioides</i>	402	222	-	-	106	1	590	-	-	-	-	-	1321
18	Spottail shiner	<i>N. hudsonius</i>	32	58	-	-	21	7	29	-	-	-	-	-	147
19	Sand shiner	<i>N. stramineus</i>	3	3	-	-	4	7	32	-	-	-	-	-	49

20	Weed shiner	<i>N. texanus</i>	26	11	-	-	141	9	75	-	-	-	-	-	262
21	Mimic shiner	<i>N. volucellus</i>	1076	2624	-	-	258	163	1562	-	-	-	-	-	5683
22	Pugnose minnow	<i>Opsopoeodus emiliae</i>	95	25	-	-	698	334	96	-	-	-	-	-	1248
23	Bluntnose minnow	<i>Pimephales notatus</i>	-	-	-	-	5	-	2	-	-	-	-	-	7
24	Fathead minnow	<i>P. promelas</i>	5	4	-	-	6	-	-	-	-	-	-	-	15
25	Bullhead minnow	<i>P. vigilax</i>	927	926	-	-	1823	362	1606	-	-	-	-	-	5644
26	Unidentified minnow	Unidentified Cyprinidae	-	-	-	-	3	-	1	-	-	-	-	-	4
27	River carpsucker	<i>Carpionodes carpio</i>	1	5	3	1	-	-	1	-	1	-	-	-	12
28	Quillback	<i>C. cyprinus</i>	6	14	1	-	1	-	2	-	-	-	-	-	24
29	Highfin carpsucker	<i>C. velifer</i>	1	3	-	-	-	-	-	-	-	-	-	-	4
30	Unidentified carpsucker	<i>Carpionodes</i> sp.	2	-	-	-	-	-	4	-	-	-	-	-	6
31	White sucker	<i>Catostomus commersoni</i>	2	4	4	-	1	-	1	-	-	-	-	-	12
32	Blue sucker	<i>Cycleptus elongatus</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
33	Smallmouth buffalo	<i>Ictiobus bubalus</i>	16	8	4	2	22	1	14	1	37	-	-	-	105
34	Bigmouth buffalo	<i>I. cyprinellus</i>	-	-	-	-	5	-	-	-	-	-	-	-	5
35	Black buffalo	<i>I. niger</i>	-	1	-	-	-	-	-	-	-	-	-	-	1
36	Unidentified buffalo	<i>Ictiobus</i> sp.	2	-	-	-	5	-	-	-	-	-	-	-	7
37	Spotted sucker	<i>Minytrema melanops</i>	85	49	10	18	1	2	-	-	-	-	-	-	165
38	Silver redhorse	<i>Moxostoma anisurum</i>	198	233	124	106	9	-	6	2	6	-	-	-	684
39	River redhorse	<i>M. carinatum</i>	26	45	-	-	-	-	-	-	-	-	-	-	71
40	Golden redhorse	<i>M. erythrurum</i>	98	138	3	7	-	-	1	1	3	-	-	-	251
41	Shorthead redhorse	<i>M. macrolepidotum</i>	482	543	54	77	5	1	-	25	27	-	-	1	1215
42	Unidentified redhorse	<i>Moxostoma</i> sp.	5	1	-	-	4	-	5	-	-	-	-	-	15
43	Unidentified sucker	Unidentified Catostomidae	1	-	-	-	-	-	5	-	-	-	-	-	6
44	Black bullhead	<i>Ameiurus melas</i>	-	-	-	2	1	-	-	-	-	-	-	-	3

45	Yellow bullhead	<i>A. natalis</i>	-	-	1	1	-	-	-	-	-	-	-	-	2
46	Brown bullhead	<i>A. nebulosus</i>	-	-	-	-	4	-	-	-	-	-	-	-	4
47	Channel catfish	<i>Ictalurus punctatus</i>	6	20	4	2	1	-	-	145	128	-	-	1	307
48	Tadpole madtom	<i>Noturus gyrinus</i>	3	7	-	-	8	1	64	-	-	-	-	-	83
49	Flathead catfish	<i>Pylodictis olivaris</i>	14	21	14	5	3	2	-	-	16	-	-	1	76
50	Northern pike	<i>Esox lucius</i>	11	33	35	23	2	-	1	-	3	-	-	-	108
51	Central mudminnow	<i>Umbra limi</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
52	Trout perch	<i>Percopsis omiscomaycus</i>	-	-	-	-	-	-	4	-	-	-	-	-	4
53	Burbot	<i>Lota lota</i>	-	1	-	-	-	-	-	-	-	-	-	-	1
54	Brook silverside	<i>Labidesthes sicculus</i>	20	162	-	-	16	-	181	-	-	-	-	-	379
55	Brook stickleback	<i>Culaea inconstans</i>	1	-	-	-	1	-	-	-	-	-	-	-	2
56	White bass	<i>Morone chrysops</i>	43	708	80	125	29	-	30	-	6	-	-	-	1021
57	Yellow bass	<i>M. mississippiensis</i>	2	1	-	-	-	-	-	-	-	-	-	-	3
58	Rock bass	<i>Ambloplites rupestris</i>	155	206	28	9	32	1	45	2	-	-	-	-	478
59	Green sunfish	<i>Lepomis cyanellus</i>	25	38	-	-	164	4	31	-	-	-	-	-	262
60	Pumpkinseed	<i>L. gibbosus</i>	23	12	4	13	38	3	1	-	-	-	-	-	94
61	Warmouth	<i>L. gulosus</i>	1	-	1	4	26	21	-	-	-	-	-	-	53
62	Orangespotted sunfish	<i>L. humilis</i>	5	8	-	-	44	3	1	-	-	-	-	-	61
63	Bluegill	<i>L. macrochirus</i>	2375	1577	678	359	4204	687	1107	11	14	-	-	-	11012
64	Green x pumpkinseed sunfish	<i>L. cyanellus x gibbosus</i>	3	2	-	-	11	-	-	-	-	-	-	-	16
65	Green x orangespotted sunfish	<i>L. cyanellus x humilis</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
66	Green x bluegill sunfish	<i>L. cyanellus x macrochirus</i>	6	2	1	-	1	1	-	-	-	-	-	-	11
67	Pumpkinseed x bluegill	<i>L. gibbosus x macrochirus</i>	3	2	-	-	-	-	-	-	-	-	-	-	5
68	Bluegill x orangespotted sunfish	<i>L. macrochirus x humilis</i>	-	-	-	-	-	-	1	-	-	-	-	-	1

69	Unidentified Lepomis	<i>Lepomis</i> sp.	76	40	-	-	2926	29	329	-	-	-	-	-	3400
70	Smallmouth bass	<i>Micropterus dolomieu</i>	158	465	1	-	-	-	11	-	1	-	-	-	636
71	Largemouth bass	<i>M. salmoides</i>	572	386	9	5	69	9	24	-	-	-	-	-	1074
72	White crappie	<i>Pomoxis annularis</i>	6	3	2	4	1	2	-	-	-	-	-	-	18
73	Black crappie	<i>P. nigromaculatus</i>	100	56	287	260	110	6	22	-	18	-	-	-	859
74	Unidentified sunfish	Unidentified Centrarchidae	1	-	-	-	-	-	-	-	-	-	-	-	1
75	Western sand darter	<i>Ammocrypta clara</i>	3	26	-	-	-	-	31	-	-	-	-	-	60
76	Mud darter	<i>Etheostoma asprigene</i>	8	6	-	-	7	1	4	-	-	-	-	-	26
77	Iowa darter	<i>E. exile</i>	-	1	-	-	-	-	1	-	-	-	-	-	2
78	Johnny darter	<i>Etheostoma nigrum</i>	77	44	-	-	23	-	112	-	-	-	-	-	256
79	Yellow perch	<i>Perca flavescens</i>	22	68	25	73	5	-	2	1	-	-	-	-	196
80	Logperch	<i>Percina caprodes</i>	46	135	-	-	24	1	31	-	-	-	-	-	237
81	Blackside darter	<i>P. maculata</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
82	Slenderhead darter	<i>P. phoxocephala</i>	3	16	-	-	-	-	-	-	-	-	-	-	19
83	River darter	<i>P. shumardi</i>	1	13	-	-	4	-	13	-	-	-	-	-	31
84	Sauger	<i>Stizostedion canadense</i>	61	790	29	10	6	-	1	-	-	-	-	-	897
85	Walleye	<i>S. vitreum</i>	24	278	18	2	2	-	-	-	1	-	-	-	325
86	Sauger x walleye hybrid	<i>S. canadense</i> x <i>vitreum</i>	-	3	-	1	-	-	-	-	-	-	-	-	4
87	Freshwater drum	<i>Aplodinotus grunniens</i>	43	140	67	47	7	1	6	4	33	-	-	70	418
			<b>10955</b>	<b>14184</b>	<b>1856</b>	<b>1321</b>	<b>12519</b>	<b>1742</b>	<b>12334</b>	<b>197</b>	<b>296</b>	<b>0</b>	<b>0</b>	<b>76</b>	<b>55480</b>

**Sampling gears:****D - Day electrofishing****N - Night electrofishing****F - Fyke netting****X - Tandem fyke netting****M - Mini fyke netting****Y - Tandem mini fyke netting****S - Seining**

**HS - Small hoop netting**  
**HL - Large hoop netting**  
**G - Gill netting**  
**TA - Trammel netting**  
**T- Trawling**

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## Pool 8 Tables

Table*	Stratified Random Sampling
<a href="#">4.2</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">5.2</a>	Mean catch-per-unit-effort for fish collected by night electrofishing
<a href="#">6.2</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">7.2</a>	Mean catch-per-unit-effort for fish collected by tandem fyke netting
<a href="#">8.2</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">9.2</a>	Mean catch-per-unit-effort for fish collected by tandem mini fyke netting
<a href="#">10.2</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">11.2</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
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	Fixed-site Sampling
<a href="#">15.2</a>	Mean catch-per-unit-effort for fish collected by night electrofishing
<a href="#">17.2</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">18.2</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">19.2</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">20.2</a>	Mean catch-per-unit-effort for fish collected by seining
<a href="#">21.2</a>	Mean catch-per-unit-effort for fish collected by bottom trawling

\*Table numbers are not always in sequence because some gears were not fished in some study areas. Table numbers for each gear type are consistent among study areas.

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*Last updated on September 22, 2004*

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**Table 4.2** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	MCBU	MCBW	SCB
<b>Chestnut lamprey</b>	0.00				0.09	
	(0.00)				(0.06)	
<b>Silver lamprey</b>	0.06	0.06	0.08	0.17	0.04	
	(0.03)	(0.06)	(0.08)	(0.11)	(0.04)	
<b>Longnose gar</b>	0.15	0.17	0.17	0.17		0.11
	(0.06)	(0.12)	(0.11)	(0.11)		(0.08)
<b>Shortnose gar</b>	0.07	0.06	0.25	0.08		0.06
	(0.04)	(0.06)	(0.18)	(0.08)		(0.06)
<b>Bowfin</b>	0.20	0.50	0.08			0.06
	(0.07)	(0.19)	(0.08)			(0.06)
<b>Mooneye</b>	0.02				0.07	0.06
	(0.02)				(0.07)	(0.06)
<b>Gizzard shad</b>	15.54	35.89	3.42	1.25	2.47	7.56
	(10.74)	(31.44)	(2.02)	(0.71)	(1.61)	(3.12)
<b>Spotfin shiner</b>	21.90	5.67	33.17	40.25	1.34	24.06
	(5.24)	(2.52)	(30.54)	(18.23)	(0.81)	(7.09)
<b>Common carp</b>	3.42	2.28	2.83	2.75	0.76	4.94

	(0.72)	(1.17)	(0.66)	(1.02)	(0.37)	(1.46)
<b>Golden shiner</b>	1.27	3.17	0.08			0.50
	(0.61)	(1.72)	(0.08)			(0.44)
<b>Emerald shiner</b>	13.32	10.83	16.58	24.92	4.26	8.17
	(2.39)	(4.63)	(8.35)	(6.66)	(2.17)	(2.32)
<b>River shiner</b>	5.34	0.06	13.08	17.92	0.08	1.50
	(1.68)	(0.06)	(12.90)	(6.70)	(0.08)	(0.68)
<b>Spottail shiner</b>	0.49	0.11	0.42	0.33	0.42	0.94
	(0.24)	(0.08)	(0.26)	(0.19)	(0.42)	(0.63)
<b>Sand shiner</b>	0.06			0.17		0.06
	(0.04)			(0.17)		(0.06)
<b>Weed shiner</b>	0.52	0.39	0.08			1.00
	(0.34)	(0.24)	(0.08)			(0.89)
<b>Mimic shiner</b>	11.20	0.56	51.58	32.42	0.40	2.72
	(4.79)	(0.26)	(51.40)	(17.59)	(0.23)	(1.63)
<b>Pugnose minnow</b>	1.76	4.00	0.42			1.00
	(0.54)	(1.53)	(0.34)			(0.35)
<b>Fathead minnow</b>	0.10	0.17				0.11
	(0.05)	(0.12)				(0.08)
<b>Bullhead minnow</b>	17.49	10.72	4.42	10.42	2.14	29.67
	(3.40)	(2.96)	(2.31)	(4.35)	(1.97)	(8.17)
<b>River carpsucker</b>	0.02	0.06				
	(0.02)	(0.06)				
<b>Quillback</b>	0.07	0.06	0.25			0.11
	(0.04)	(0.06)	(0.25)			(0.08)
<b>Highfin carpsucker</b>	0.02					0.06
	(0.02)					(0.06)
<b>Unidentified carpsucker</b>	0.04			0.17		
	(0.04)			(0.17)		
<b>White sucker</b>	0.03		0.08			0.06

	(0.02)		(0.08)			(0.06)
<b>Blue sucker</b>	0.00				0.04	
	(0.00)				(0.04)	
<b>Smallmouth buffalo</b>	0.27	0.72	0.08		0.04	0.06
	(0.16)	(0.46)	(0.08)		(0.04)	(0.06)
<b>Unidentified buffalo</b>	0.04	0.11				
	(0.04)	(0.11)				
<b>Spotted sucker</b>	1.64	2.44	0.25	0.17		2.00
	(0.47)	(0.74)	(0.18)	(0.11)		(1.05)
<b>Silver redhorse</b>	1.54	1.06	0.50	1.42	4.86	2.17
	(0.26)	(0.33)	(0.34)	(0.50)	(0.94)	(0.55)
<b>River redhorse</b>	0.04			0.08	0.97	0.06
	(0.03)			(0.08)	(0.30)	(0.06)
<b>Golden redhorse</b>	1.03	0.89	0.50	0.58	1.94	1.50
	(0.20)	(0.37)	(0.29)	(0.26)	(0.69)	(0.37)
<b>Shorthead redhorse</b>	1.82	1.06	2.08	1.17	14.85	2.78
	(0.31)	(0.38)	(0.75)	(0.49)	(4.55)	(0.69)
<b>Unidentified redhorse</b>	0.10			0.42		
	(0.07)			(0.29)		
<b>Unidentified sucker</b>	0.02					0.06
	(0.02)					(0.06)
<b>Channel catfish</b>	0.08	0.17			0.07	0.06
	(0.05)	(0.12)			(0.07)	(0.06)
<b>Tadpole madtom</b>	0.04				0.10	0.11
	(0.03)				(0.10)	(0.08)
<b>Flathead catfish</b>	0.24	0.11		0.33	0.08	0.33
	(0.08)	(0.08)		(0.19)	(0.05)	(0.18)
<b>Northern pike</b>	0.17	0.22	0.17		0.10	0.22
	(0.05)	(0.10)	(0.11)		(0.10)	(0.10)
<b>Central mudminnow</b>	0.04	0.11				

	(0.04)	(0.11)				
<b>Brook silverside</b>	0.36	0.33		0.33	0.21	0.44
	(0.11)	(0.14)		(0.19)	(0.21)	(0.23)
<b>Brook stickleback</b>	0.02					0.06
	(0.02)					(0.06)
<b>White bass</b>	0.59	1.06	0.33	0.08	0.39	0.50
	(0.19)	(0.42)	(0.19)	(0.08)	(0.20)	(0.32)
<b>Yellow bass</b>	0.00		0.08		0.03	
	(0.00)		(0.08)		(0.03)	
<b>Rock bass</b>	2.76	2.17	1.42	1.00	0.41	4.56
	(0.67)	(0.74)	(0.58)	(0.35)	(0.32)	(1.62)
<b>Green sunfish</b>	0.43	0.17	0.42	0.25		0.78
	(0.14)	(0.09)	(0.19)	(0.13)		(0.35)
<b>Pumpkinseed</b>	0.45	0.94				0.33
	(0.14)	(0.37)				(0.14)
<b>Warmouth</b>	0.02	0.06				
	(0.02)	(0.06)				
<b>Orangespotted sunfish</b>	0.10	0.11				0.17
	(0.05)	(0.08)				(0.12)
<b>Bluegill</b>	42.35	64.33	13.42	7.25	5.76	47.83
	(6.03)	(12.73)	(5.39)	(2.16)	(3.74)	(11.02)
<b>Green x pumpkinseed sunfish</b>	0.04				0.10	0.11
	(0.03)				(0.10)	(0.08)
<b>Green x orangespotted sunfish</b>	0.02	0.06				
	(0.02)	(0.06)				
<b>Green x bluegill sunfish</b>	0.09		0.17			0.22
	(0.05)		(0.17)			(0.13)
<b>Pumpkinseed x bluegill</b>	0.06	0.17				
	(0.04)	(0.12)				
<b>Unidentified Lepomis</b>	1.32	2.94	0.83	0.08		0.67

	(0.48)	(1.35)	(0.44)	(0.08)		(0.33)
<b>Smallmouth bass</b>	2.02	0.33	1.08	2.00	2.09	3.67
	(0.61)	(0.16)	(0.74)	(0.55)	(0.52)	(1.56)
<b>Largemouth bass</b>	10.73	17.39	1.67	1.83	0.79	11.39
	(3.58)	(9.63)	(0.51)	(0.68)	(0.54)	(3.85)
<b>White crappie</b>	0.12	0.17				0.17
	(0.06)	(0.12)				(0.12)
<b>Black crappie</b>	1.83	2.94	0.17	0.08	0.20	2.11
	(0.52)	(1.23)	(0.11)	(0.08)	(0.20)	(0.82)
<b>Unidentified sunfish</b>	0.02	0.06				
	(0.02)	(0.06)				
<b>Western sand darter</b>	0.06			0.25		
	(0.06)			(0.25)		
<b>Mud darter</b>	0.17	0.06				0.39
	(0.08)	(0.06)				(0.22)
<b>Johnny darter</b>	1.34	0.56	1.17	1.08		2.22
	(0.30)	(0.22)	(0.75)	(0.57)		(0.67)
<b>Yellow perch</b>	0.38	0.67	0.25	0.17		0.28
	(0.13)	(0.33)	(0.18)	(0.17)		(0.11)
<b>Logperch</b>	0.71	0.11	0.25	1.58	0.46	0.78
	(0.24)	(0.08)	(0.18)	(0.89)	(0.28)	(0.31)
<b>Blackside darter</b>	0.02					0.06
	(0.02)					(0.06)
<b>Slenderhead darter</b>	0.02			0.08	0.21	
	(0.02)			(0.08)	(0.21)	
<b>River darter</b>	0.00				0.04	
	(0.00)				(0.04)	
<b>Sauger</b>	1.01	0.78	0.83	0.67	0.11	1.44
	(0.22)	(0.24)	(0.52)	(0.36)	(0.07)	(0.49)
<b>Walleye</b>	0.32	0.44	0.17	0.17	0.25	0.33

	(0.11)	(0.25)	(0.17)	(0.11)	(0.10)	(0.18)
<b>Freshwater drum</b>	0.53	0.72	0.25	0.17	0.54	0.61
	(0.21)	(0.50)	(0.13)	(0.17)	(0.24)	(0.28)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_8/tb3\\_\\_wi0003.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_8/tb3__wi0003.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 5.2** Mean catch-per-unit-effort and (standard error) for fish collected by night electrofishing in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	MCBW	SCB
<b>Chestnut lamprey</b>	0.00		0.18	
	(0.00)		(0.10)	
<b>Silver lamprey</b>	0.00		0.35	
	(0.00)		(0.25)	
<b>Longnose gar</b>	0.21	0.42	0.29	0.08
	(0.08)	(0.15)	(0.13)	(0.08)
<b>Shortnose gar</b>	0.03	0.08	0.14	
	(0.03)	(0.08)	(0.08)	
<b>Bowfin</b>	0.03	0.08		
	(0.03)	(0.08)		
<b>Mooneye</b>	0.21	0.42	1.11	0.08
	(0.09)	(0.19)	(0.46)	(0.08)
<b>Gizzard shad</b>	6.51	3.00	1.04	8.67
	(3.04)	(0.91)	(0.44)	(4.87)
<b>Spotfin shiner</b>	25.69	11.00	0.08	34.75
	(11.16)	(3.43)	(0.08)	(17.88)
<b>Common carp</b>	3.16	1.92	2.81	3.92

	(0.76)	(1.12)	(2.05)	(1.03)
<b>Silver chub</b>	0.08	0.08		0.08
	(0.06)	(0.08)		(0.08)
<b>Golden shiner</b>	0.40	0.25		0.50
	(0.32)	(0.25)		(0.50)
<b>Emerald shiner</b>	55.47	85.75	1.37	37.50
	(15.76)	(38.18)	(0.48)	(10.67)
<b>River shiner</b>	1.61	4.00		0.17
	(0.55)	(1.45)		(0.11)
<b>Spottail shiner</b>	0.47	0.42		0.50
	(0.26)	(0.34)		(0.36)
<b>Sand shiner</b>	0.09	0.25		
	(0.07)	(0.18)		
<b>Weed shiner</b>	0.21			0.33
	(0.12)			(0.19)
<b>Mimic shiner</b>	22.15	37.50	1.56	13.00
	(5.04)	(9.11)	(0.64)	(5.99)
<b>Pugnose minnow</b>	1.12	0.08		1.75
	(0.45)	(0.08)		(0.73)
<b>Fathead minnow</b>	0.11	0.17		0.08
	(0.07)	(0.11)		(0.08)
<b>Bullhead minnow</b>	24.21	5.67	0.48	35.58
	(6.72)	(1.90)	(0.22)	(10.79)
<b>River carpsucker</b>	0.10			0.17
	(0.10)			(0.17)
<b>Quillback</b>	0.06	0.17	0.04	
	(0.04)	(0.11)	(0.04)	
<b>Smallmouth buffalo</b>	0.06	0.17	0.08	
	(0.04)	(0.11)	(0.08)	
<b>Spotted sucker</b>	0.84	0.17		1.25



	(0.56)	(0.17)		(0.91)
<b>Silver redhorse</b>	3.19	2.00	2.83	3.92
	(0.68)	(0.74)	(0.77)	(1.00)
<b>River redhorse</b>	0.35	0.50	1.24	0.25
	(0.17)	(0.34)	(0.36)	(0.18)
<b>Golden redhorse</b>	1.92	1.25	1.89	2.33
	(0.54)	(0.68)	(0.59)	(0.77)
<b>Shorthead redhorse</b>	5.49	6.92	11.16	4.58
	(1.66)	(3.60)	(2.08)	(1.57)
<b>Unidentified redhorse</b>	0.05			0.08
	(0.05)			(0.08)
<b>Channel catfish</b>	0.46	0.67	0.11	0.33
	(0.27)	(0.58)	(0.06)	(0.26)
<b>Tadpole madtom</b>	0.10			0.17
	(0.07)			(0.11)
<b>Flathead catfish</b>	0.27	0.17	0.08	0.33
	(0.15)	(0.11)	(0.08)	(0.22)
<b>Northern pike</b>	0.05		0.08	0.08
	(0.05)		(0.08)	(0.08)
<b>Brook silverside</b>	2.24	1.00		3.00
	(0.56)	(0.30)		(0.88)
<b>White bass</b>	2.18	4.42	1.78	0.83
	(0.54)	(1.36)	(0.42)	(0.30)
<b>Rock bass</b>	4.46	2.92	0.15	5.42
	(0.89)	(0.68)	(0.10)	(1.37)
<b>Green sunfish</b>	1.77	0.58		2.50
	(1.18)	(0.34)		(1.90)
<b>Pumpkinseed</b>	0.33	0.33		0.33
	(0.20)	(0.33)		(0.26)
<b>Orangespotted sunfish</b>	0.34	0.08		0.50

	(0.21)	(0.08)		(0.34)
<b>Bluegill</b>	50.03	13.83	1.01	72.25
	(23.83)	(4.09)	(0.45)	(38.38)
<b>Green x pumpkinseed sunfish</b>	0.05			0.08
	(0.05)			(0.08)
<b>Pumpkinseed x bluegill</b>	0.10			0.17
	(0.10)			(0.17)
<b>Unidentified Lepomis</b>	1.53	1.58		1.50
	(0.73)	(1.49)		(0.76)
<b>Smallmouth bass</b>	7.34	10.00	3.14	5.75
	(2.16)	(4.78)	(0.80)	(1.95)
<b>Largemouth bass</b>	3.07	0.75	0.13	4.50
	(1.61)	(0.45)	(0.09)	(2.58)
<b>White crappie</b>	0.08	0.08		0.08
	(0.06)	(0.08)		(0.08)
<b>Black crappie</b>	1.30	0.17	0.19	2.00
	(0.56)	(0.11)	(0.11)	(0.90)
<b>Western sand darter</b>	0.16	0.42	0.04	
	(0.07)	(0.19)	(0.04)	
<b>Mud darter</b>	0.26			0.42
	(0.12)			(0.19)
<b>Iowa darter</b>	0.05			0.08
	(0.05)			(0.08)
<b>Johnny darter</b>	1.04	1.25		0.92
	(0.44)	(0.99)		(0.38)
<b>Yellow perch</b>	1.12	0.08		1.75
	(1.03)	(0.08)		(1.66)
<b>Logperch</b>	0.62	0.25	1.37	0.83
	(0.37)	(0.18)	(0.55)	(0.59)
<b>Slenderhead darter</b>	0.00		0.41	

	(0.00)		(0.29)	
<b>Sauger</b>	4.94	6.25	1.85	4.17
	(0.84)	(1.59)	(0.33)	(0.95)
<b>Walleye</b>	0.69	0.83	2.55	0.58
	(0.19)	(0.32)	(0.88)	(0.23)
<b>Sauger x walleye hybrid</b>	0.00		0.15	
	(0.00)		(0.08)	
<b>Freshwater drum</b>	1.41	1.50	4.20	1.33
	(0.51)	(0.61)	(1.98)	(0.74)

**Sampling strata:****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_8/tb3\\_wi0004.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_8/tb3_wi0004.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 6.2** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS
<b>Silver lamprey</b>	0.06	0.07	
	(0.04)	(0.05)	
<b>Longnose gar</b>	0.86	0.85	0.89
	(0.35)	(0.40)	(0.38)
<b>Shortnose gar</b>	3.78	3.84	3.35
	(1.08)	(1.23)	(1.23)
<b>Bowfin</b>	0.73	0.80	0.25
	(0.25)	(0.28)	(0.18)
<b>Mooneye</b>	0.01		0.08
	(0.01)		(0.08)
<b>Gizzard shad</b>	0.87	0.43	3.84
	(0.33)	(0.23)	(2.15)
<b>Common carp</b>	1.76	1.68	2.35
	(0.31)	(0.35)	(0.67)
<b>River carpsucker</b>	0.05	0.03	0.16
	(0.03)	(0.03)	(0.11)
<b>Quillback</b>	0.01		0.08

	(0.01)		(0.08)
<b>White sucker</b>	0.10	0.10	0.09
	(0.07)	(0.08)	(0.09)
<b>Smallmouth buffalo</b>	0.11	0.13	
	(0.06)	(0.07)	
<b>Spotted sucker</b>	0.28	0.31	0.08
	(0.13)	(0.15)	(0.08)
<b>Silver redhorse</b>	2.87	2.84	3.12
	(0.72)	(0.81)	(1.12)
<b>Golden redhorse</b>	0.09	0.10	
	(0.05)	(0.06)	
<b>Shorthead redhorse</b>	0.92	0.65	2.73
	(0.23)	(0.23)	(0.93)
<b>Yellow bullhead</b>	0.03	0.03	
	(0.03)	(0.03)	
<b>Channel catfish</b>	0.11	0.13	
	(0.08)	(0.10)	
<b>Flathead catfish</b>	0.31	0.29	0.42
	(0.10)	(0.11)	(0.19)
<b>Northern pike</b>	0.92	1.01	0.32
	(0.29)	(0.34)	(0.18)
<b>White bass</b>	1.35	0.92	4.30
	(0.35)	(0.37)	(1.23)
<b>Rock bass</b>	0.70	0.73	0.50
	(0.20)	(0.23)	(0.23)
<b>Pumpkinseed</b>	0.12	0.14	
	(0.06)	(0.06)	
<b>Warmouth</b>	0.03	0.03	
	(0.03)	(0.03)	
<b>Bluegill</b>	18.05	19.75	6.39

	(3.38)	(3.88)	(1.79)
<b>Green x bluegill sunfish</b>	0.03	0.04	
	(0.03)	(0.04)	
<b>Smallmouth bass</b>	0.01		0.08
	(0.01)		(0.08)
<b>Largemouth bass</b>	0.15	0.10	0.49
	(0.06)	(0.06)	(0.25)
<b>White crappie</b>	0.06	0.07	
	(0.06)	(0.07)	
<b>Black crappie</b>	6.93	7.12	5.60
	(1.58)	(1.80)	(1.55)
<b>Yellow perch</b>	0.55	0.53	0.68
	(0.25)	(0.27)	(0.53)
<b>Sauger</b>	0.48	0.33	1.56
	(0.16)	(0.14)	(0.88)
<b>Walleye</b>	0.40	0.39	0.48
	(0.14)	(0.15)	(0.27)
<b>Freshwater drum</b>	1.19	0.92	3.03
	(0.45)	(0.46)	(1.67)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_8/tb3\\_wi0005.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_8/tb3_wi0005.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶

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**Table 7.2** Mean catch-per-unit-effort and (standard error) for fish collected by tandem fyke netting in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWC	IMPO
<b>Longnose gar</b>	0.47	0.27	0.49
	(0.16)	(0.14)	(0.18)
<b>Shortnose gar</b>	0.54	0.95	0.49
	(0.16)	(0.43)	(0.18)
<b>Bowfin</b>	0.30	1.88	0.08
	(0.12)	(0.80)	(0.08)
<b>Mooneye</b>	0.14		0.16
	(0.09)		(0.10)
<b>Gizzard shad</b>	1.61	0.46	1.77
	(1.09)	(0.26)	(1.25)
<b>Common carp</b>	0.64	1.13	0.57
	(0.15)	(0.54)	(0.15)
<b>Golden shiner</b>	0.00	0.04	
	(0.00)	(0.04)	
<b>River carpsucker</b>	0.00	0.04	
	(0.00)	(0.04)	

<b>Smallmouth buffalo</b>	0.01	0.08	
	(0.01)	(0.05)	
<b>Spotted sucker</b>	0.09	0.73	
	(0.06)	(0.48)	
<b>Silver redhorse</b>	2.38	3.14	2.28
	(0.65)	(1.35)	(0.72)
<b>Golden redhorse</b>	0.17	0.20	0.16
	(0.14)	(0.09)	(0.16)
<b>Shorthead redhorse</b>	2.83	1.59	3.00
	(0.61)	(0.61)	(0.69)
<b>Black bullhead</b>	0.01	0.08	
	(0.01)	(0.05)	
<b>Yellow bullhead</b>	0.01	0.04	
	(0.01)	(0.04)	
<b>Channel catfish</b>	0.08	0.04	0.08
	(0.07)	(0.04)	(0.08)
<b>Flathead catfish</b>	0.16	0.12	0.16
	(0.09)	(0.06)	(0.10)
<b>Northern pike</b>	0.18	0.89	0.08
	(0.10)	(0.56)	(0.08)
<b>White bass</b>	4.34	2.58	4.59
	(1.98)	(1.74)	(2.25)
<b>Rock bass</b>	0.18	0.27	0.16
	(0.09)	(0.12)	(0.10)
<b>Pumpkinseed</b>	0.06	0.52	
	(0.05)	(0.44)	
<b>Warmouth</b>	0.02	0.16	
	(0.02)	(0.16)	
<b>Bluegill</b>	4.18	12.94	2.95



	(0.96)	(4.37)	(0.91)
<b>Largemouth bass</b>	0.03	0.21	
	(0.02)	(0.13)	
<b>White crappie</b>	0.02	0.17	
	(0.01)	(0.11)	
<b>Black crappie</b>	3.16	9.37	2.29
	(0.87)	(2.96)	(0.90)
<b>Yellow perch</b>	0.35	2.83	
	(0.14)	(1.18)	
<b>Sauger</b>	0.44	0.15	0.48
	(0.19)	(0.07)	(0.22)
<b>Walleye</b>	0.01	0.08	
	(0.01)	(0.05)	
<b>Sauger x walleye hybrid</b>	0.07		0.08
	(0.07)		(0.08)
<b>Freshwater drum</b>	1.58	0.98	1.66
	(0.97)	(0.70)	(1.10)

**Sampling strata:****BWCO - Backwater, contiguous, offshore****IMPO - Impounded, offshore***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_8/tb3\\_wi0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_8/tb3_wi0006.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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**Table 8.2** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	MCBU	SCB
Longnose gar	0.16	0.20	0.32	0.36	
	(0.07)	(0.13)	(0.18)	(0.22)	
Shortnose gar	0.50	1.14	0.48		0.23
	(0.22)	(0.61)	(0.22)		(0.17)
Bowfin	0.04	0.12			
	(0.02)	(0.07)			
Gizzard shad	0.70	0.36	0.25	0.61	1.11
	(0.26)	(0.24)	(0.25)	(0.28)	(0.64)
Spotfin shiner	12.50	22.67	12.65	10.22	4.72
	(6.16)	(17.72)	(8.19)	(3.98)	(2.11)
Common carp	0.98	1.24	3.44	0.64	0.63
	(0.37)	(0.72)	(2.91)	(0.51)	(0.55)
Brassy minnow	0.01	0.04			
	(0.01)	(0.04)			
Golden shiner	0.40	0.79	0.54	0.45	
	(0.17)	(0.46)	(0.37)	(0.24)	
Emerald shiner	6.10	4.39	11.62	9.48	4.87

	(1.92)	(2.46)	(6.54)	(3.38)	(3.98)
<b>River shiner</b>	1.47	3.44	0.32	1.20	
	(1.14)	(3.29)	(0.22)	(0.88)	
<b>Spottail shiner</b>	0.11	0.08	0.15	0.07	0.15
	(0.05)	(0.08)	(0.15)	(0.07)	(0.10)
<b>Sand shiner</b>	0.03	0.04	0.24		
	(0.02)	(0.04)	(0.24)		
<b>Weed shiner</b>	1.41	3.32	0.17	0.54	0.37
	(0.54)	(1.49)	(0.11)	(0.46)	(0.37)
<b>Mimic shiner</b>	2.64	4.07	1.36	3.60	0.94
	(1.39)	(3.76)	(0.55)	(1.93)	(0.79)
<b>Pugnose minnow</b>	11.09	21.96	0.25	0.17	9.33
	(6.11)	(14.80)	(0.18)	(0.11)	(9.15)
<b>Bluntnose minnow</b>	0.03	0.08	0.08		
	(0.02)	(0.06)	(0.08)		
<b>Fathead minnow</b>	0.10	0.08		0.30	
	(0.03)	(0.05)		(0.13)	
<b>Bullhead minnow</b>	17.30	41.65	14.17	1.13	5.58
	(10.23)	(29.90)	(8.43)	(0.44)	(2.59)
<b>Unidentified minnow</b>	0.05			0.21	
	(0.05)			(0.21)	
<b>Quillback</b>	0.03				0.07
	(0.03)				(0.07)
<b>Smallmouth buffalo</b>	0.31	0.75		0.22	
	(0.18)	(0.53)		(0.16)	
<b>Bigmouth buffalo</b>	0.07	0.15		0.08	
	(0.06)	(0.15)		(0.08)	
<b>Unidentified buffalo</b>	0.07	0.20			
	(0.05)	(0.16)			
<b>Silver redhorse</b>	0.05	0.08	0.49		

	(0.02)	(0.06)	(0.19)		
<b>Shorthead redhorse</b>	0.07	0.04	0.15	0.09	0.07
	(0.04)	(0.04)	(0.10)	(0.09)	(0.07)
<b>Unidentified redhorse</b>	0.03		0.23	0.07	
	(0.02)		(0.23)	(0.07)	
<b>Black bullhead</b>	0.00		0.07		
	(0.00)		(0.07)		
<b>Brown bullhead</b>	0.06	0.17			
	(0.06)	(0.17)			
<b>Channel catfish</b>	0.00		0.09		
	(0.00)		(0.09)		
<b>Tadpole madtom</b>	0.09	0.13	0.24	0.15	
	(0.04)	(0.10)	(0.13)	(0.10)	
<b>Flathead catfish</b>	0.04		0.15		0.08
	(0.03)		(0.10)		(0.08)
<b>Northern pike</b>	0.00		0.08		
	(0.00)		(0.08)		
<b>Brook silverside</b>	0.18	0.35	0.16	0.23	
	(0.09)	(0.25)	(0.11)	(0.16)	
<b>Brook stickleback</b>	0.02			0.07	
	(0.02)			(0.07)	
<b>White bass</b>	0.31	0.24	0.45	0.66	0.15
	(0.11)	(0.20)	(0.30)	(0.31)	(0.10)
<b>Rock bass</b>	0.47	0.30	0.49	0.14	0.82
	(0.16)	(0.16)	(0.26)	(0.14)	(0.38)
<b>Green sunfish</b>	2.28	4.50	2.15	1.09	1.03
	(1.24)	(3.53)	(1.40)	(0.56)	(0.69)
<b>Pumpkinseed</b>	0.57	1.12	0.34		0.46
	(0.25)	(0.50)	(0.26)		(0.46)
<b>Warmouth</b>	0.35	1.01	0.09		

	(0.30)	(0.89)	(0.09)		
<b>Orangespotted sunfish</b>	0.60	1.66		0.16	
	(0.49)	(1.45)		(0.11)	
<b>Bluegill</b>	62.19	110.69	8.70	12.55	55.61
	(21.97)	(35.43)	(3.24)	(8.79)	(48.20)
<b>Green x pumpkinseed sunfish</b>	0.18	0.32			0.19
	(0.12)	(0.28)			(0.19)
<b>Green x bluegill sunfish</b>	0.03				0.08
	(0.03)				(0.08)
<b>Unidentified Lepomis</b>	34.35	85.89	44.74	1.55	6.49
	(21.83)	(63.86)	(36.67)	(0.67)	(3.43)
<b>Largemouth bass</b>	0.88	2.46	0.39		0.07
	(0.45)	(1.31)	(0.18)		(0.07)
<b>White crappie</b>	0.02			0.08	
	(0.02)			(0.08)	
<b>Black crappie</b>	1.41	3.66	0.56	0.32	0.15
	(0.72)	(2.10)	(0.42)	(0.24)	(0.10)
<b>Mud darter</b>	0.07	0.08	0.32		0.07
	(0.03)	(0.05)	(0.24)		(0.07)
<b>Johnny darter</b>	0.31	0.23	0.08	0.31	0.40
	(0.13)	(0.13)	(0.08)	(0.17)	(0.32)
<b>Yellow perch</b>	0.10	0.08			0.19
	(0.07)	(0.05)			(0.19)
<b>Logperch</b>	0.25	0.04	0.08	0.76	0.15
	(0.17)	(0.04)	(0.08)	(0.69)	(0.15)
<b>River darter</b>	0.02			0.08	
	(0.02)			(0.08)	
<b>Sauger</b>	0.06		0.32	0.07	0.07
	(0.03)		(0.19)	(0.07)	(0.07)
<b>Walleye</b>	0.01		0.16		

	(0.01)		(0.11)		
<b>Freshwater drum</b>	0.11	0.04	0.24		0.23
	(0.07)	(0.04)	(0.17)		(0.17)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_8/tb3\\_wi0007.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_8/tb3_wi0007.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 9.2** Mean catch-per-unit-effort and (standard error) for fish collected by tandem mini fyke netting in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO
<b>Shortnose gar</b>	0.08	0.08
	(0.05)	(0.05)
<b>Goldeye</b>	0.04	0.04
	(0.04)	(0.04)
<b>Gizzard shad</b>	0.04	0.04
	(0.04)	(0.04)
<b>Spotfin shiner</b>	2.18	2.18
	(1.87)	(1.88)
<b>Common carp</b>	0.08	0.08
	(0.05)	(0.05)
<b>Golden shiner</b>	0.04	0.04
	(0.04)	(0.04)
<b>Emerald shiner</b>	1.04	1.04
	(0.48)	(0.49)
<b>River shiner</b>	0.04	0.04
	(0.04)	(0.04)
<b>Spottail shiner</b>	0.29	0.29

	(0.25)	(0.25)
<b>Sand shiner</b>	0.30	0.30
	(0.30)	(0.30)
<b>Weed shiner</b>	0.36	0.36
	(0.18)	(0.19)
<b>Mimic shiner</b>	6.96	6.96
	(6.48)	(6.50)
<b>Pugnose minnow</b>	13.25	13.25
	(8.41)	(8.44)
<b>Bullhead minnow</b>	15.08	15.08
	(7.20)	(7.22)
<b>Smallmouth buffalo</b>	0.04	0.04
	(0.04)	(0.04)
<b>Spotted sucker</b>	0.08	0.08
	(0.08)	(0.08)
<b>Shorthead redhorse</b>	0.04	0.04
	(0.04)	(0.04)
<b>Tadpole madtom</b>	0.04	0.04
	(0.04)	(0.04)
<b>Flathead catfish</b>	0.08	0.08
	(0.08)	(0.08)
<b>Rock bass</b>	0.05	0.05
	(0.05)	(0.05)
<b>Green sunfish</b>	0.17	0.17
	(0.13)	(0.13)
<b>Pumpkinseed</b>	0.12	0.12
	(0.06)	(0.06)
<b>Warmouth</b>	0.81	0.81
	(0.37)	(0.37)
<b>Orangespotted sunfish</b>	0.12	0.12



	(0.08)	(0.08)
<b>Bluegill</b>	27.96	27.96
	(21.80)	(21.86)
<b>Green x bluegill sunfish</b>	0.04	0.04
	(0.04)	(0.04)
<b>Unidentified Lepomis</b>	1.20	1.20
	(0.80)	(0.80)
<b>Largemouth bass</b>	0.35	0.35
	(0.31)	(0.31)
<b>White crappie</b>	0.08	0.08
	(0.05)	(0.05)
<b>Black crappie</b>	0.23	0.23
	(0.15)	(0.15)
<b>Mud darter</b>	0.04	0.04
	(0.04)	(0.04)
<b>Logperch</b>	0.04	0.04
	(0.04)	(0.04)
<b>Freshwater drum</b>	0.04	0.04
	(0.04)	(0.04)

**Sampling stratum:**  
**BWCO - Backwater, contiguous, offshore**

*Last updated on August 26, 2004*

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**Table 10.2** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Common carp</b>	0.01	0.04	
	(0.01)	(0.04)	
<b>Silver chub</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Smallmouth buffalo</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Silver redhorse</b>	0.04	0.04	0.04
	(0.03)	(0.04)	(0.04)
<b>Golden redhorse</b>	0.02		0.04
	(0.02)		(0.04)
<b>Shorthead redhorse</b>	0.07	0.04	0.08
	(0.05)	(0.04)	(0.08)
<b>Channel catfish</b>	1.26	1.03	1.40
	(0.36)	(0.45)	(0.51)
<b>Rock bass</b>	0.02		0.04
	(0.02)		(0.04)
<b>Bluegill</b>	0.12	0.12	0.12

	(0.07)	(0.12)	(0.09)
<b>Freshwater drum</b>	0.04	0.04	0.04
	(0.03)	(0.04)	(0.04)

**Sampling strata:**

**MCBU - Main channel border, unstructured**

**SCB - Side channel border**

*Last updated on August 26, 2004*

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**Table 11.2** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Longnose gar</b>	0.03		0.04
	(0.03)		(0.04)
<b>Smallmouth buffalo</b>	0.27	0.65	0.05
	(0.12)	(0.31)	(0.05)
<b>Silver redhorse</b>	0.12	0.16	0.09
	(0.07)	(0.16)	(0.06)
<b>Golden redhorse</b>	0.07	0.04	0.09
	(0.06)	(0.04)	(0.09)
<b>Shorthead redhorse</b>	0.19	0.28	0.13
	(0.07)	(0.14)	(0.07)
<b>Channel catfish</b>	2.03	1.51	2.35
	(0.79)	(0.55)	(1.23)
<b>Flathead catfish</b>	0.17	0.16	0.18
	(0.09)	(0.09)	(0.14)
<b>Northern pike</b>	0.05		0.09
	(0.04)		(0.06)
<b>White bass</b>	0.01	0.04	

	(0.01)	(0.04)	
<b>Bluegill</b>	0.14	0.08	0.17
	(0.06)	(0.05)	(0.10)
<b>Smallmouth bass</b>	0.01	0.04	
	(0.01)	(0.04)	
<b>Black crappie</b>	0.18	0.19	0.17
	(0.07)	(0.16)	(0.07)
<b>Freshwater drum</b>	0.50	0.48	0.52
	(0.29)	(0.27)	(0.43)

**Sampling strata:****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_8/tb3\\_wi0010.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_8/tb3_wi0010.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 12.2** Mean catch-per-unit-effort and (standard error) for fish collected by seining in Pool 8 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.2](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
Longnose gar	0.06	0.08	0.04
	(0.03)	(0.06)	(0.04)
Gizzard shad	1.87	4.96	
	(1.61)	(4.28)	
Spotfin shiner	42.88	22.29	55.33
	(10.52)	(14.57)	(14.47)
Common carp	0.33	0.75	0.08
	(0.21)	(0.53)	(0.08)
Brassy minnow	0.98	0.04	1.54
	(0.96)	(0.04)	(1.54)
Mississippi silvery minnow	0.04	0.04	0.04
	(0.03)	(0.04)	(0.04)
Golden shiner	0.16	0.08	0.21
	(0.09)	(0.08)	(0.13)
Emerald shiner	65.63	59.17	69.54
	(19.27)	(21.00)	(28.30)
River shiner	10.98	5.71	14.17

	(5.00)	(2.92)	(7.85)
<b>Spottail shiner</b>	0.21	0.21	0.21
	(0.09)	(0.12)	(0.13)
<b>Sand shiner</b>	0.45	0.08	0.67
	(0.23)	(0.06)	(0.37)
<b>Weed shiner</b>	1.81	0.04	2.88
	(1.30)	(0.04)	(2.09)
<b>Mimic shiner</b>	29.19	33.42	26.63
	(9.80)	(17.73)	(11.57)
<b>Pugnose minnow</b>	1.61	0.08	2.54
	(1.07)	(0.06)	(1.72)
<b>Bullhead minnow</b>	28.83	5.21	43.13
	(15.20)	(2.01)	(24.44)
<b>Unidentified minnow</b>	0.03		0.04
	(0.03)		(0.04)
<b>River carpsucker</b>	0.03		0.04
	(0.03)		(0.04)
<b>Quillback</b>	0.03	0.08	
	(0.02)	(0.06)	
<b>Unidentified carpsucker</b>	0.10		0.17
	(0.10)		(0.17)
<b>White sucker</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Smallmouth buffalo</b>	0.22	0.58	
	(0.17)	(0.46)	
<b>Silver redhorse</b>	0.13		0.21
	(0.06)		(0.10)
<b>Golden redhorse</b>	0.03		0.04
	(0.03)		(0.04)
<b>Unidentified redhorse</b>	0.08	0.21	

	(0.06)	(0.17)	
<b>Unidentified sucker</b>	0.12	0.04	0.17
	(0.08)	(0.04)	(0.13)
<b>Tadpole madtom</b>	0.98	2.54	0.04
	(0.66)	(1.76)	(0.04)
<b>Trout perch</b>	0.06	0.17	
	(0.04)	(0.10)	
<b>Brook silverside</b>	2.38	3.63	1.63
	(0.71)	(1.41)	(0.75)
<b>White bass</b>	0.48	1.13	0.08
	(0.29)	(0.77)	(0.08)
<b>Rock bass</b>	0.63	0.29	0.83
	(0.34)	(0.25)	(0.52)
<b>Green sunfish</b>	0.61	0.58	0.63
	(0.32)	(0.31)	(0.48)
<b>Pumpkinseed</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Bluegill</b>	14.39	1.96	21.92
	(7.31)	(0.91)	(11.75)
<b>Unidentified Lepomis</b>	7.33	0.58	11.42
	(5.32)	(0.39)	(8.57)
<b>Smallmouth bass</b>	0.17	0.04	0.25
	(0.09)	(0.04)	(0.14)
<b>Largemouth bass</b>	0.43	0.04	0.67
	(0.22)	(0.04)	(0.35)
<b>Black crappie</b>	0.44		0.71
	(0.39)		(0.62)
<b>Western sand darter</b>	0.46	0.75	0.29
	(0.22)	(0.50)	(0.18)
<b>Mud darter</b>	0.07	0.13	0.04



	(0.04)	(0.07)	(0.04)
<b>Iowa darter</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Johnny darter</b>	1.87	1.04	2.38
	(0.57)	(0.45)	(0.87)
<b>Yellow perch</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Logperch</b>	0.31	0.63	0.13
	(0.15)	(0.38)	(0.09)
<b>River darter</b>	0.06	0.08	0.04
	(0.03)	(0.06)	(0.04)
<b>Sauger</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Freshwater drum</b>	0.14	0.08	0.17
	(0.09)	(0.08)	(0.13)

**Sampling strata:****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_8/tb3\\_wi0011.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_8/tb3_wi0011.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 15.2** Mean catch-per-unit-effort and (standard error) for fish collected by night electrofishing in Pool 8 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Chestnut lamprey	0.12
	(0.08)
Silver lamprey	0.22
	(0.12)
Longnose gar	0.23
	(0.10)
Bowfin	0.21
	(0.12)
Mooneye	0.11
	(0.07)
Gizzard shad	7.29
	(2.12)
Spotfin shiner	8.04
	(5.20)
Common carp	2.33
	(0.68)
Silver chub	0.06
	(0.06)

<b>Golden shiner</b>	0.14
	(0.11)
<b>Emerald shiner</b>	63.70
	(33.51)
<b>River shiner</b>	9.36
	(8.49)
<b>Spottail shiner</b>	2.27
	(1.53)
<b>Weed shiner</b>	0.35
	(0.35)
<b>Mimic shiner</b>	102.88
	(51.78)
<b>Pugnose minnow</b>	0.15
	(0.15)
<b>Fathead minnow</b>	0.05
	(0.05)
<b>Bullhead minnow</b>	20.79
	(14.18)
<b>River carpsucker</b>	0.16
	(0.16)
<b>Quillback</b>	0.60
	(0.28)
<b>Highfin carpsucker</b>	0.17
	(0.12)
<b>White sucker</b>	0.20
	(0.11)
<b>Smallmouth buffalo</b>	0.22
	(0.13)
<b>Black buffalo</b>	0.05
	(0.05)

<b>Spotted sucker</b>	1.68
	(1.06)
<b>Silver redhorse</b>	4.86
	(1.55)
<b>River redhorse</b>	0.21
	(0.09)
<b>Golden redhorse</b>	2.69
	(0.91)
<b>Shorthead redhorse</b>	7.26
	(2.10)
<b>Channel catfish</b>	0.27
	(0.16)
<b>Tadpole madtom</b>	0.27
	(0.14)
<b>Flathead catfish</b>	0.71
	(0.26)
<b>Northern pike</b>	1.67
	(0.41)
<b>Burbot</b>	0.05
	(0.05)
<b>Brook silverside</b>	5.60
	(2.87)
<b>White bass</b>	32.95
	(11.25)
<b>Yellow bass</b>	0.06
	(0.06)
<b>Rock bass</b>	5.52
	(1.88)
<b>Green sunfish</b>	0.04
	(0.04)

<b>Pumpkinseed</b>	0.21
	(0.17)
<b>Orangespotted sunfish</b>	0.05
	(0.05)
<b>Bluegill</b>	27.03
	(8.91)
<b>Green x pumpkinseed sunfish</b>	0.05
	(0.05)
<b>Green x bluegill sunfish</b>	0.09
	(0.06)
<b>Unidentified Lepomis</b>	0.17
	(0.12)
<b>Smallmouth bass</b>	10.56
	(3.20)
<b>Largemouth bass</b>	16.50
	(5.39)
<b>White crappie</b>	0.05
	(0.05)
<b>Black crappie</b>	1.48
	(0.33)
<b>Western sand darter</b>	1.05
	(0.65)
<b>Mud darter</b>	0.05
	(0.05)
<b>Johnny darter</b>	0.93
	(0.69)
<b>Yellow perch</b>	2.47
	(1.31)
<b>Logperch</b>	5.01
	(2.56)

<b>Slenderhead darter</b>	0.25
	(0.12)
<b>River darter</b>	0.63
	(0.41)
<b>Sauger</b>	31.91
	(9.91)
<b>Walleye</b>	10.28
	(4.31)
<b>Freshwater drum</b>	2.01
	(0.72)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 17.2** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Pool 8 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Gizzard shad	0.18
	(0.18)
Spotfin shiner	6.42
	(5.04)
Common carp	0.34
	(0.21)
Emerald shiner	1.72
	(0.70)
River shiner	0.16
	(0.16)
Spottail shiner	2.36
	(0.90)
Weed shiner	7.46
	(6.13)
Mimic shiner	13.65
	(9.38)
Pugnose minnow	5.06
	(4.46)

<b>Bluntnose minnow</b>	0.32
	(0.32)
<b>Bullhead minnow</b>	82.93
	(77.83)
<b>White sucker</b>	0.16
	(0.16)
<b>Spotted sucker</b>	0.18
	(0.18)
<b>Silver redhorse</b>	0.18
	(0.18)
<b>Northern pike</b>	0.18
	(0.18)
<b>Brook silverside</b>	0.35
	(0.22)
<b>White bass</b>	1.03
	(0.67)
<b>Rock bass</b>	1.17
	(0.64)
<b>Pumpkinseed</b>	0.33
	(0.21)
<b>Orangespotted sunfish</b>	0.16
	(0.16)
<b>Bluegill</b>	97.63
	(70.54)
<b>Green x pumpkinseed sunfish</b>	0.18
	(0.18)
<b>Unidentified Lepomis</b>	8.84
	(7.34)
<b>Largemouth bass</b>	0.16
	(0.16)



<b>Black crappie</b>	0.35
	(0.35)
<b>Johnny darter</b>	1.15
	(0.64)
<b>Yellow perch</b>	0.16
	(0.16)
<b>Logperch</b>	1.72
	(1.35)
<b>River darter</b>	0.53
	(0.36)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 18.2** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Pool 8 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Common carp	0.24
	(0.24)
Shorthead redhorse	1.80
	(1.80)
Channel catfish	6.84
	(6.19)
Rock bass	0.08
	(0.08)
Bluegill	0.41
	(0.41)
Yellow perch	0.08
	(0.08)
Freshwater drum	0.16
	(0.10)

**Sampling stratum:**  
**TWZ - Tailwater**

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**Table 19.2** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Pool 8 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Common carp	0.08
	(0.08)
River carpsucker	0.08
	(0.08)
Smallmouth buffalo	1.59
	(0.87)
Shorthead redhorse	1.39
	(1.39)
Channel catfish	2.90
	(1.81)
Flathead catfish	0.63
	(0.34)
Northern pike	0.08
	(0.08)
White bass	0.40
	(0.26)
Bluegill	0.63
	(0.54)

<b>Black crappie</b>	0.72
	(0.36)
<b>Walleye</b>	0.08
	(0.08)
<b>Freshwater drum</b>	0.71
	(0.44)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 20.2** Mean catch-per-unit-effort and (standard error) for fish collected by seining in Pool 8 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Gizzard shad	18.08
	(12.53)
Spotfin shiner	65.08
	(20.41)
Brassy minnow	0.08
	(0.08)
Emerald shiner	9.08
	(3.13)
River shiner	9.42
	(8.25)
Spottail shiner	1.58
	(0.69)
Sand shiner	1.17
	(0.66)
Weed shiner	0.42
	(0.34)
Mimic shiner	10.08
	(3.98)

<b>Pugnose minnow</b>	2.75
	(1.56)
<b>Bluntnose minnow</b>	0.17
	(0.11)
<b>Bullhead minnow</b>	37.17
	(19.19)
<b>Silver redhorse</b>	0.08
	(0.08)
<b>Tadpole madtom</b>	0.17
	(0.11)
<b>Northern pike</b>	0.08
	(0.08)
<b>Brook silverside</b>	4.58
	(2.91)
<b>White bass</b>	0.08
	(0.08)
<b>Rock bass</b>	1.50
	(0.63)
<b>Green sunfish</b>	0.17
	(0.17)
<b>Orangespotted sunfish</b>	0.08
	(0.08)
<b>Bluegill</b>	44.50
	(29.34)
<b>Bluegill x orangespotted sunfish</b>	0.08
	(0.08)
<b>Unidentified Lepomis</b>	3.42
	(2.71)
<b>Smallmouth bass</b>	0.33
	(0.26)

<b>Largemouth bass</b>	0.58
	(0.26)
<b>Black crappie</b>	0.42
	(0.42)
<b>Western sand darter</b>	0.50
	(0.50)
<b>Johnny darter</b>	2.50
	(1.31)
<b>Yellow perch</b>	0.08
	(0.08)
<b>Logperch</b>	1.08
	(0.43)
<b>River darter</b>	0.83
	(0.46)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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**Table 21.2** Mean catch-per-unit-effort and (standard error) for fish collected by bottom trawling in Pool 8 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Shovelnose sturgeon	0.08
	(0.08)
Common carp	0.17
	(0.17)
Shorthead redhorse	0.08
	(0.08)
Channel catfish	0.08
	(0.08)
Flathead catfish	0.08
	(0.08)
Freshwater drum	5.83
	(4.25)

**Sampling stratum:**  
**TWZ - Tailwater**

*Last updated on August 26, 2004*

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## Pool 8 Length Distributions

Length distributions (length) as a percentage of catch (percent) for selected species of interest collected by the Long Term Resource Monitoring Program. Fish species are listed in phylogenetical order following Robins et al. (1991) nomenclature. In some instances, meaningful biological interpretation of these distributions may be limited by small sample size or size selectivity of the gear (Anderson and Neumann 1996). Some fish histograms with small sample sizes (<100) are included because of local interest, while others were omitted (reach dependent). Scientific names for the species listed can be found in [Table 1](#).

Figure*	Species	Method
<a href="#">2.2</a>	Gizzard shad	Electrofishing
<a href="#">3.2</a>	Common carp	Electrofishing
<a href="#">4.2</a>	Smallmouth buffalo	Electrofishing
<a href="#">5.2</a>	Smallmouth buffalo	Hoop netting
<a href="#">6.2</a>	Channel catfish	Electrofishing
<a href="#">7.2</a>	Channel catfish	Hoop netting
<a href="#">8.2</a>	Northern pike	Electrofishing
<a href="#">9.2</a>	Northern pike	Fyke netting
<a href="#">10.2</a>	White bass	Electrofishing
<a href="#">11.2</a>	Bluegill	Electrofishing
<a href="#">12.2</a>	Bluegill	Fyke netting
<a href="#">13.2</a>	Largemouth bass	Electrofishing
<a href="#">14.2</a>	White crappie	Fyke netting
<a href="#">15.2</a>	Black crappie	Fyke netting

<a href="#">16.2</a>	Sauger	Electrofishing
<a href="#">17.2</a>	Walleye	Electrofishing
<a href="#">18.2</a>	Freshwater drum	Electrofishing
<a href="#">19.2</a>	Freshwater drum	Fyke netting
*Figure numbers are not always in sequence because some species were not caught in some study areas. Figure numbers for each species and gear type are consistent among study areas.		

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Content manager: [Jennie Sauer](#)

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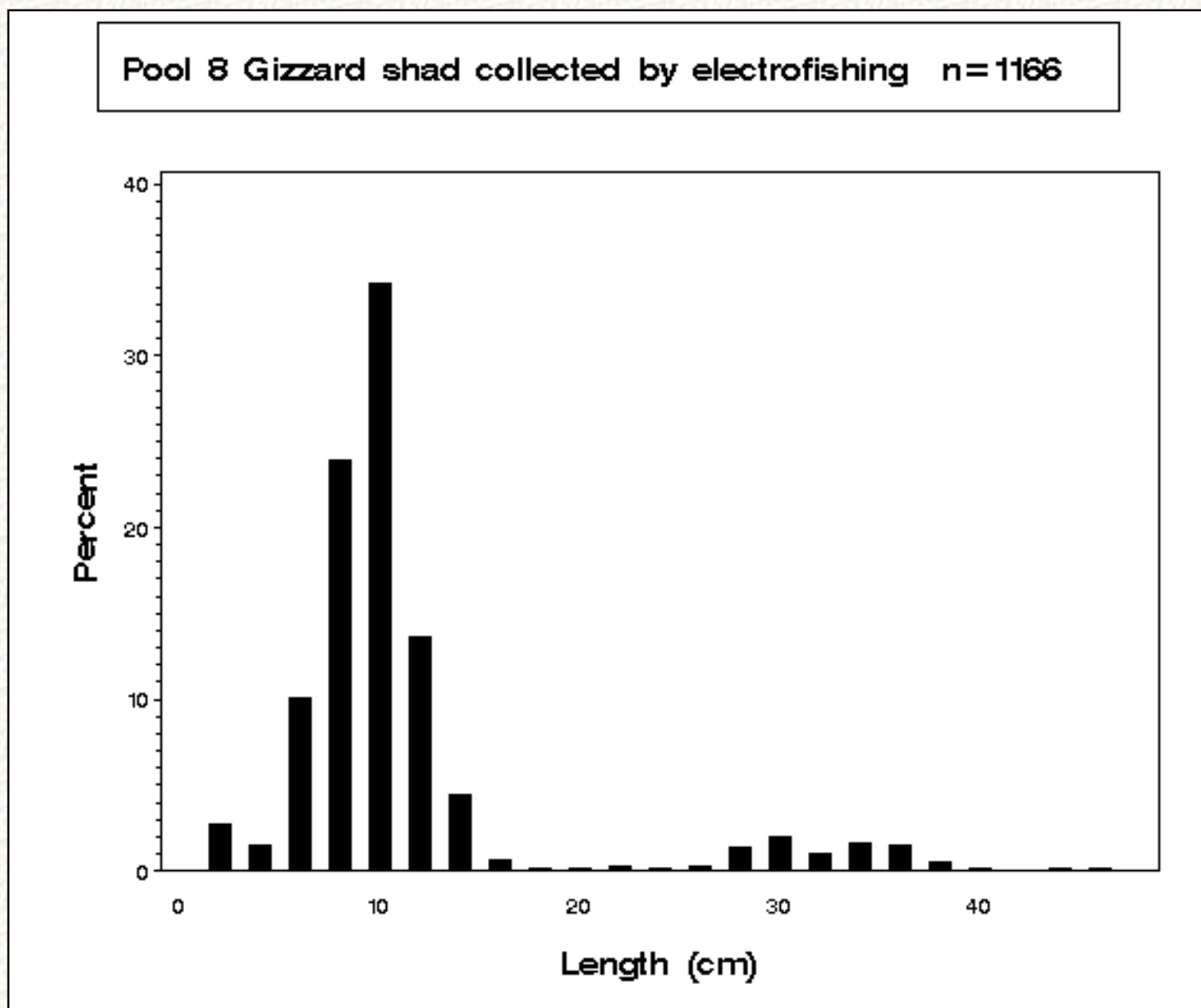
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**Figure 2.2** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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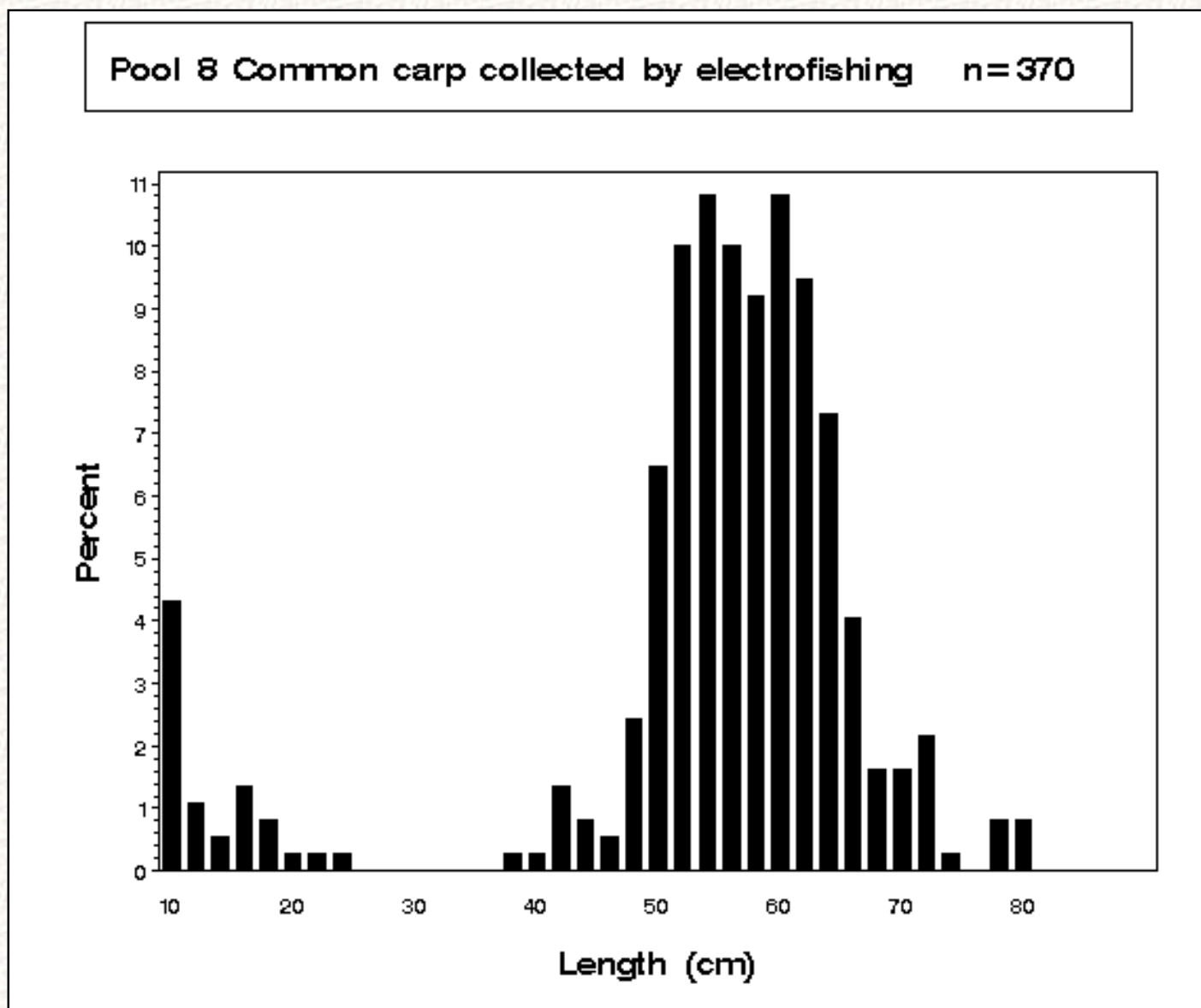
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**Figure 3.2** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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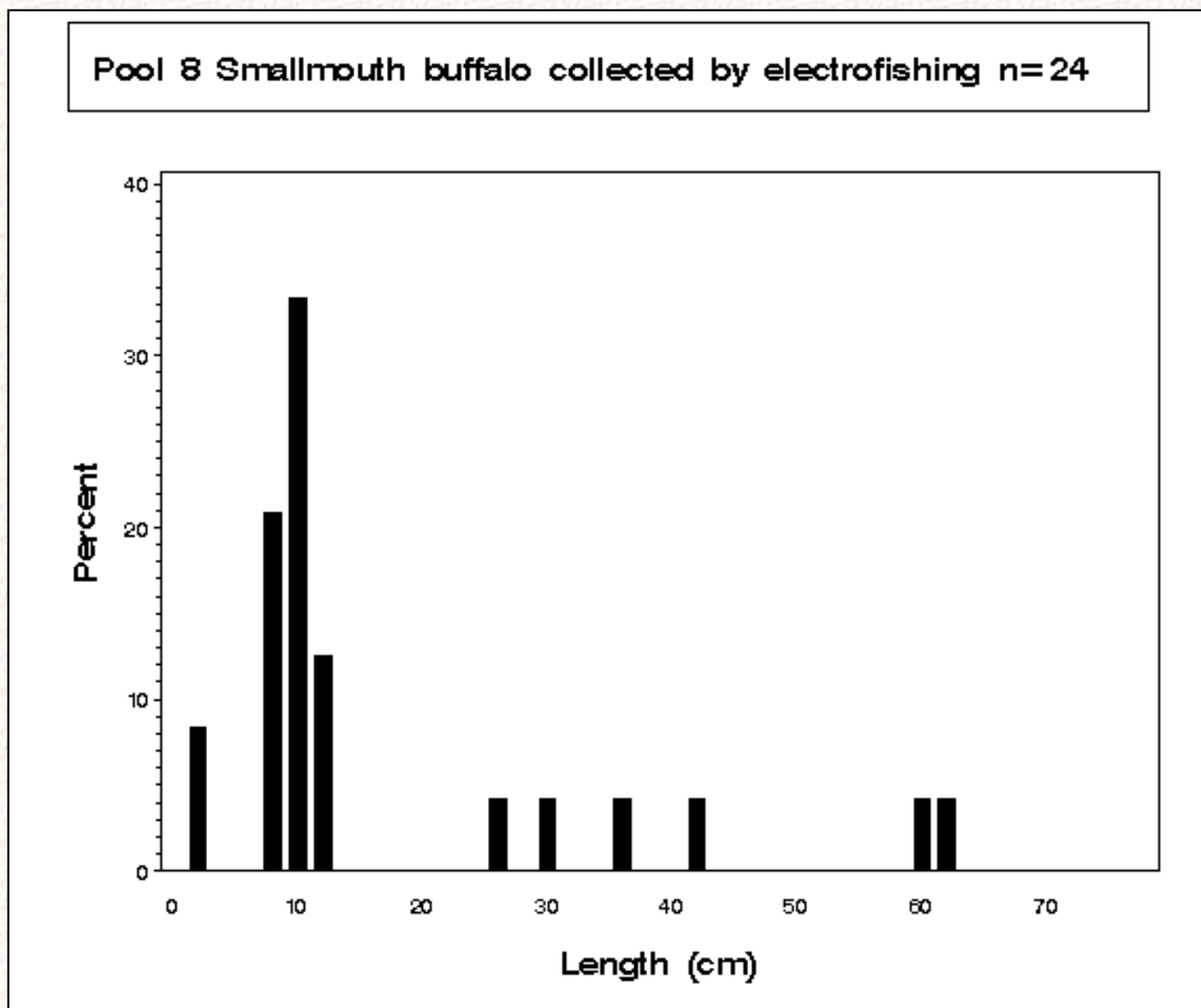
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**Figure 4.2** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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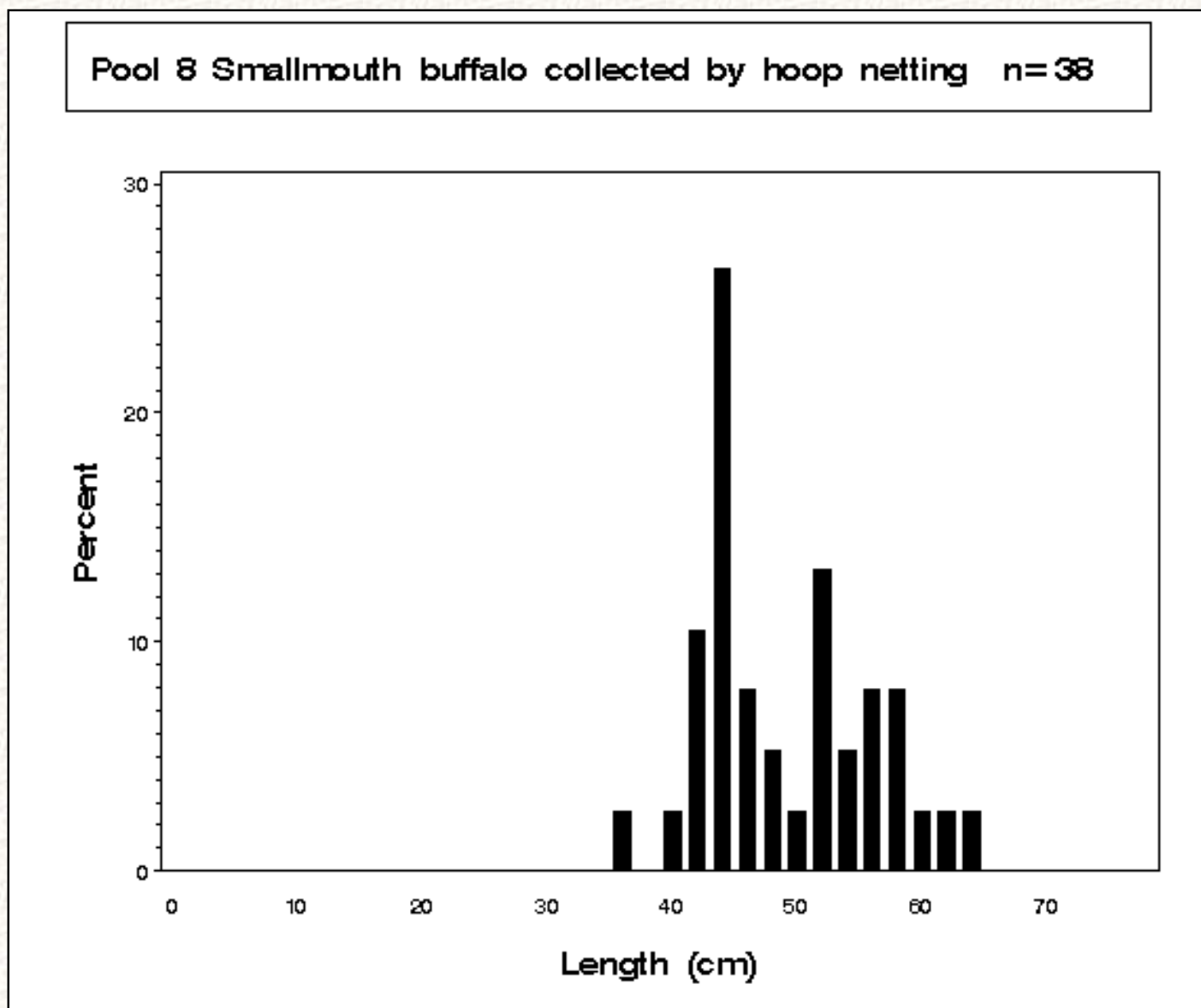
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**Figure 5.2** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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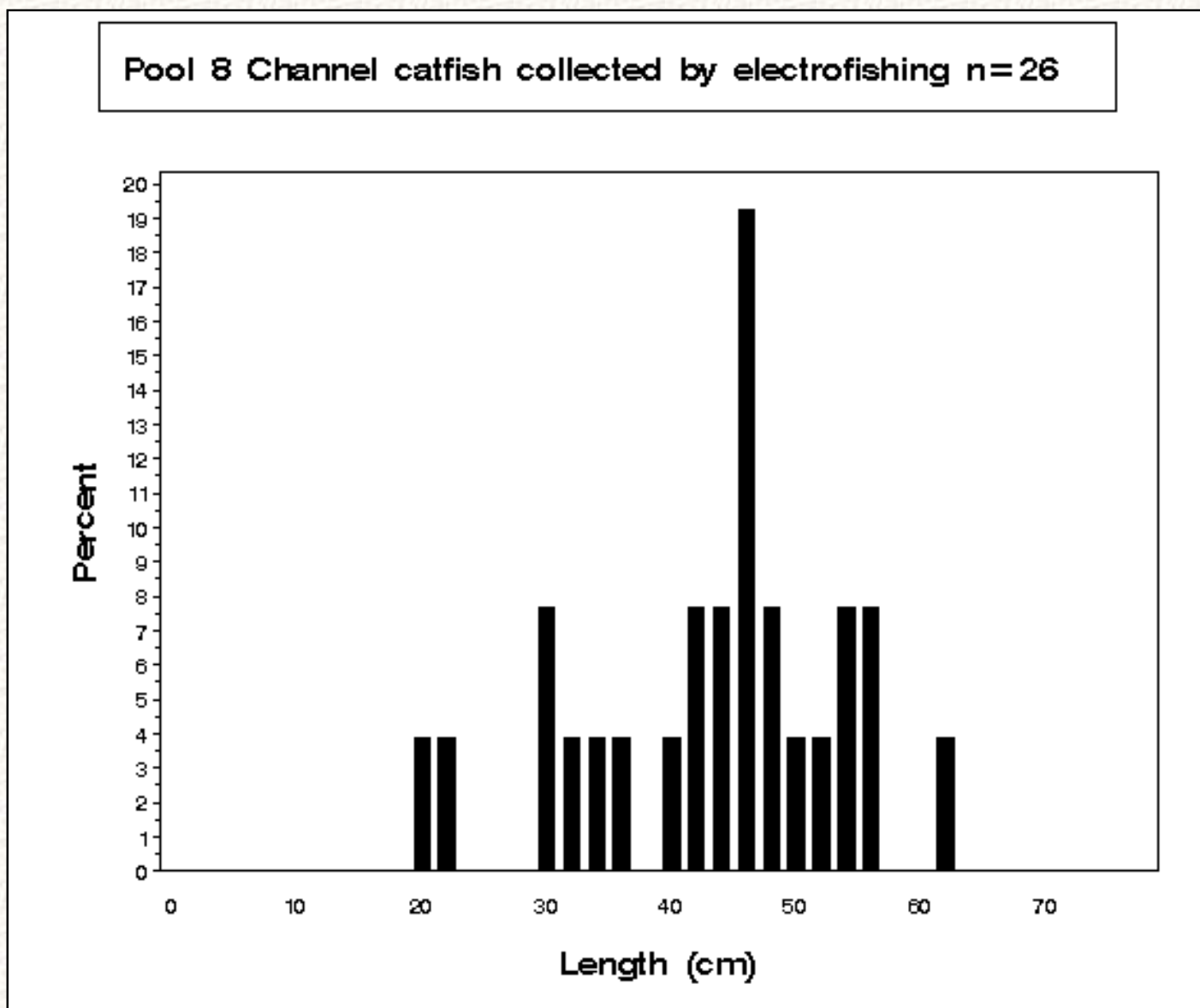
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**Figure 6.2** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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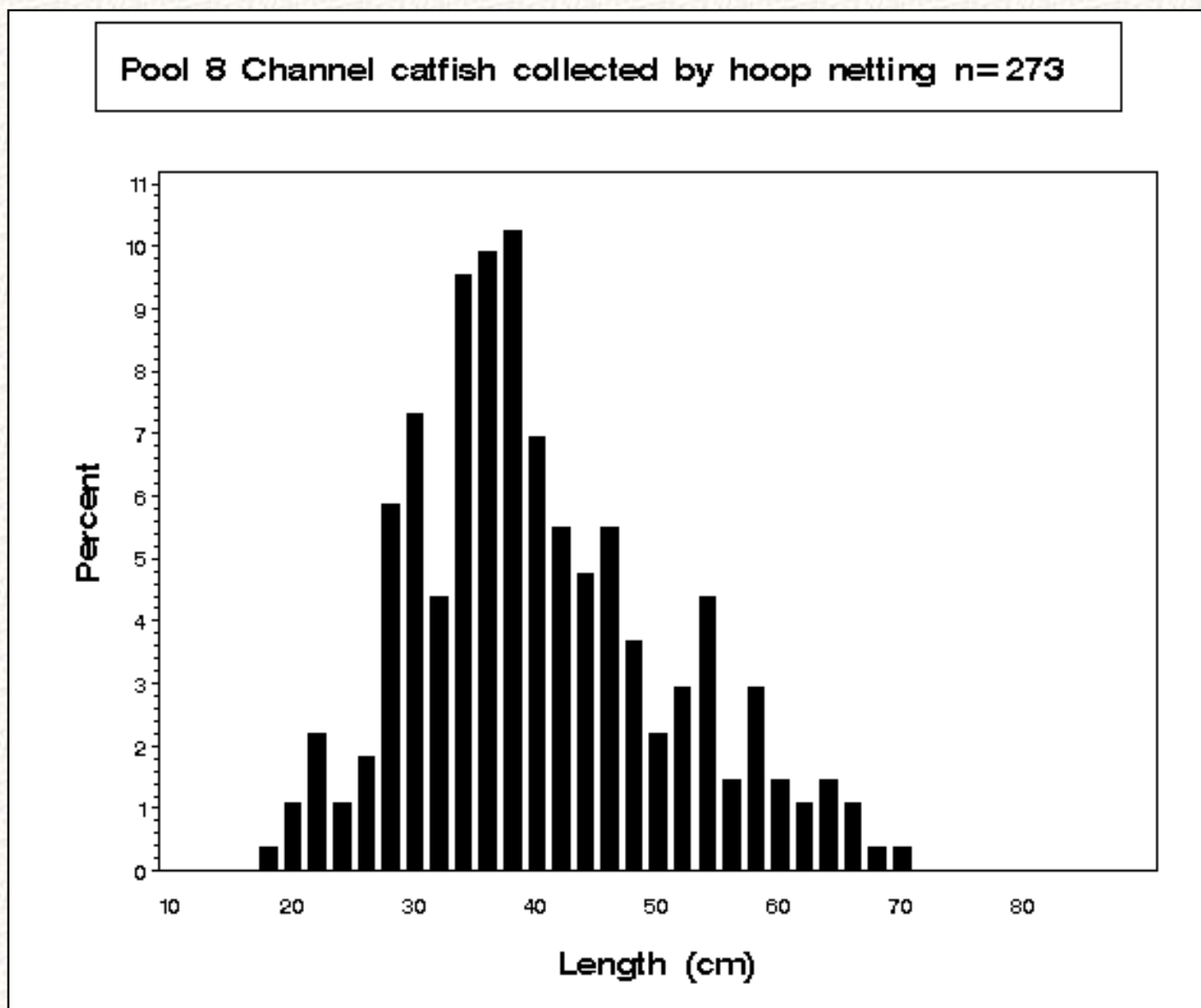
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**Figure 7.2** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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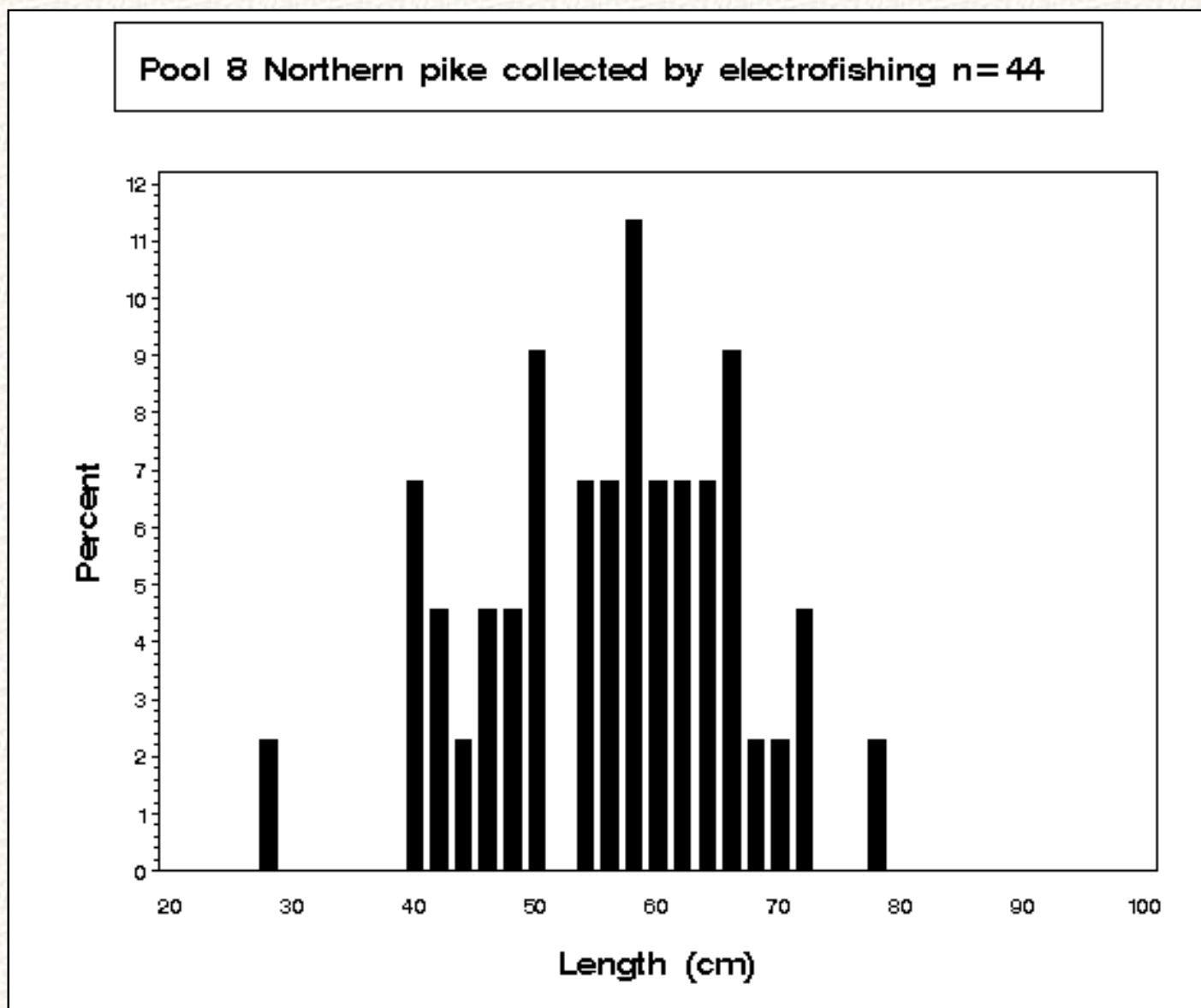
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**Figure 8.2** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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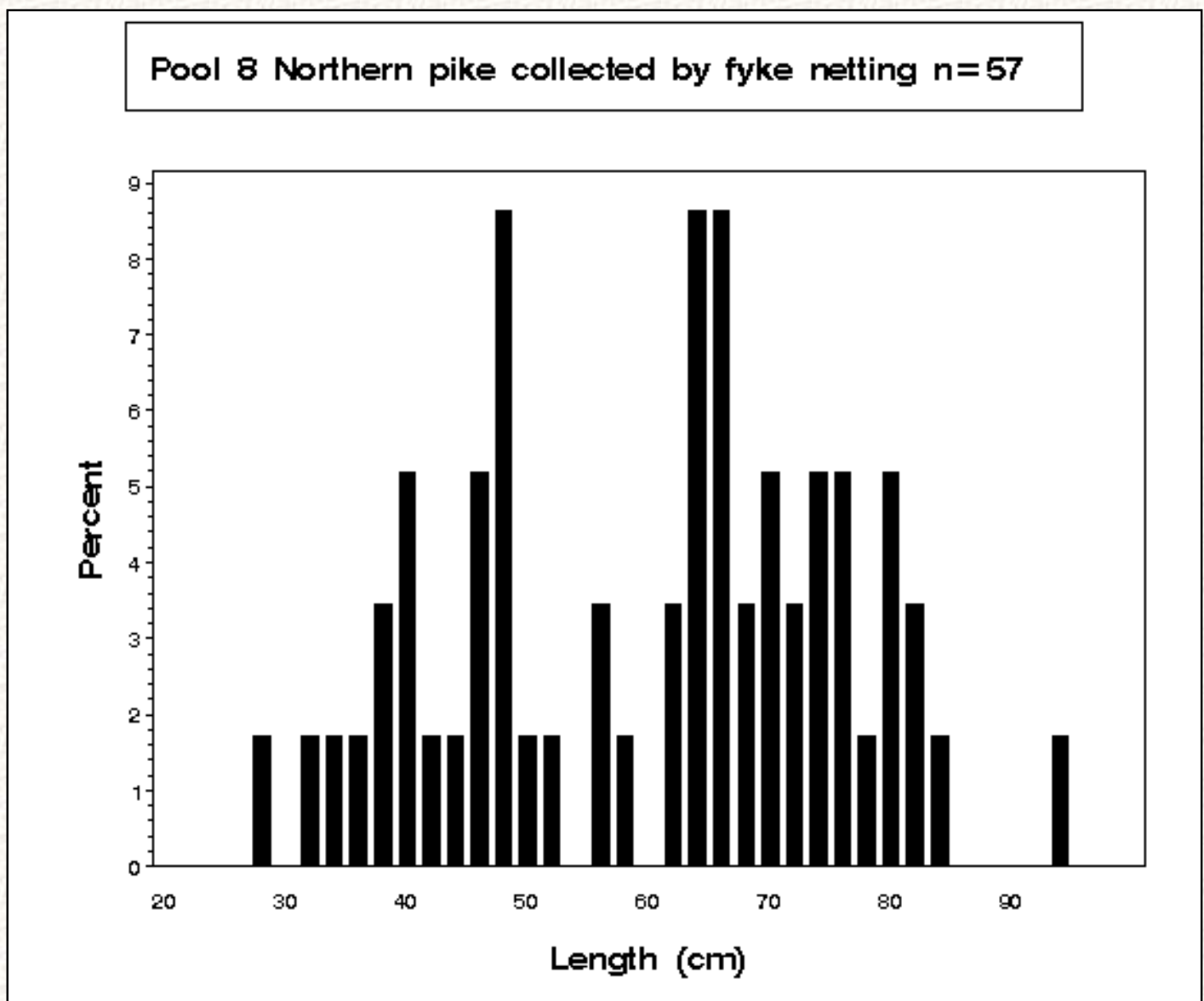
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**Figure 9.2** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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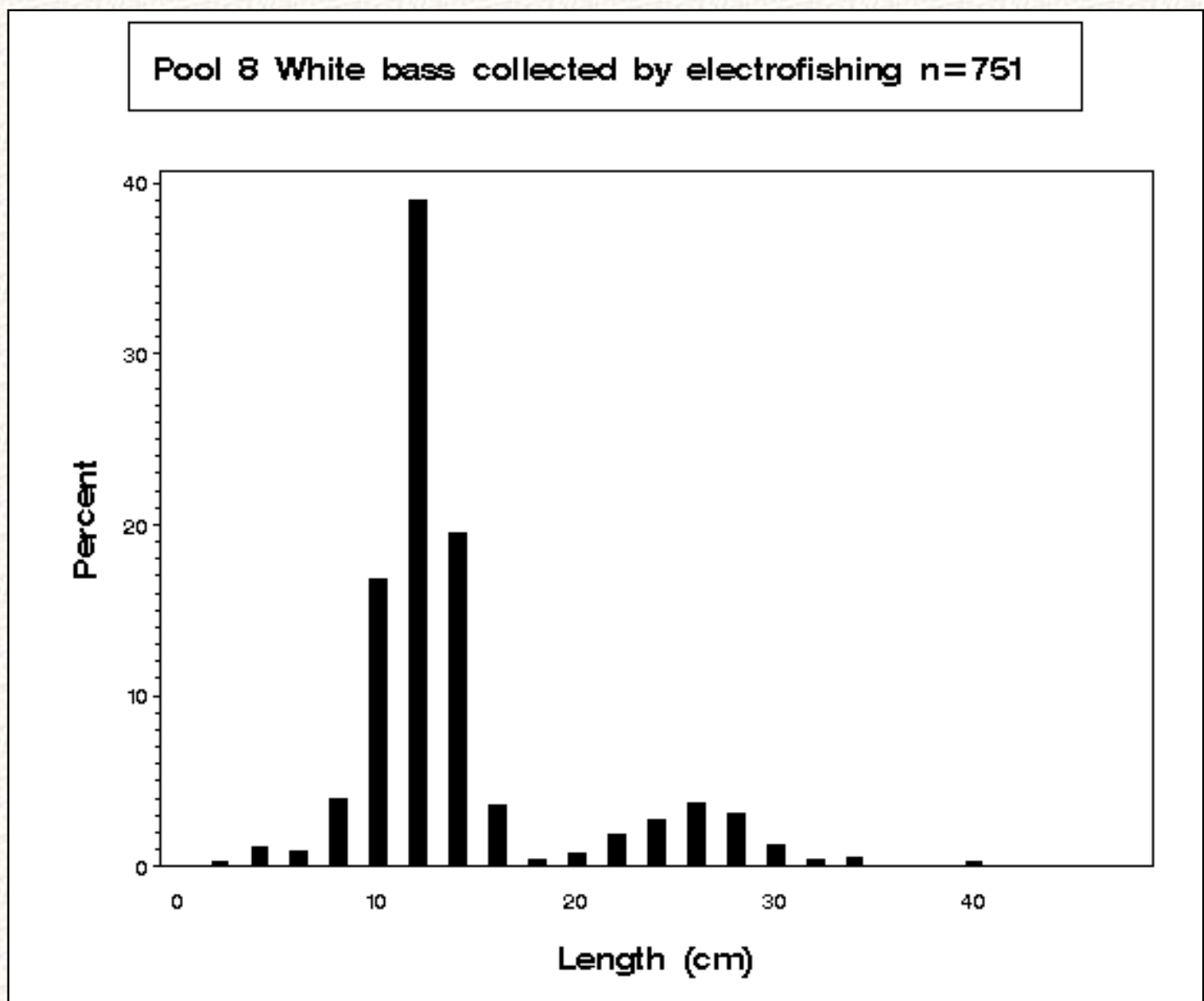
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**Figure 10.2** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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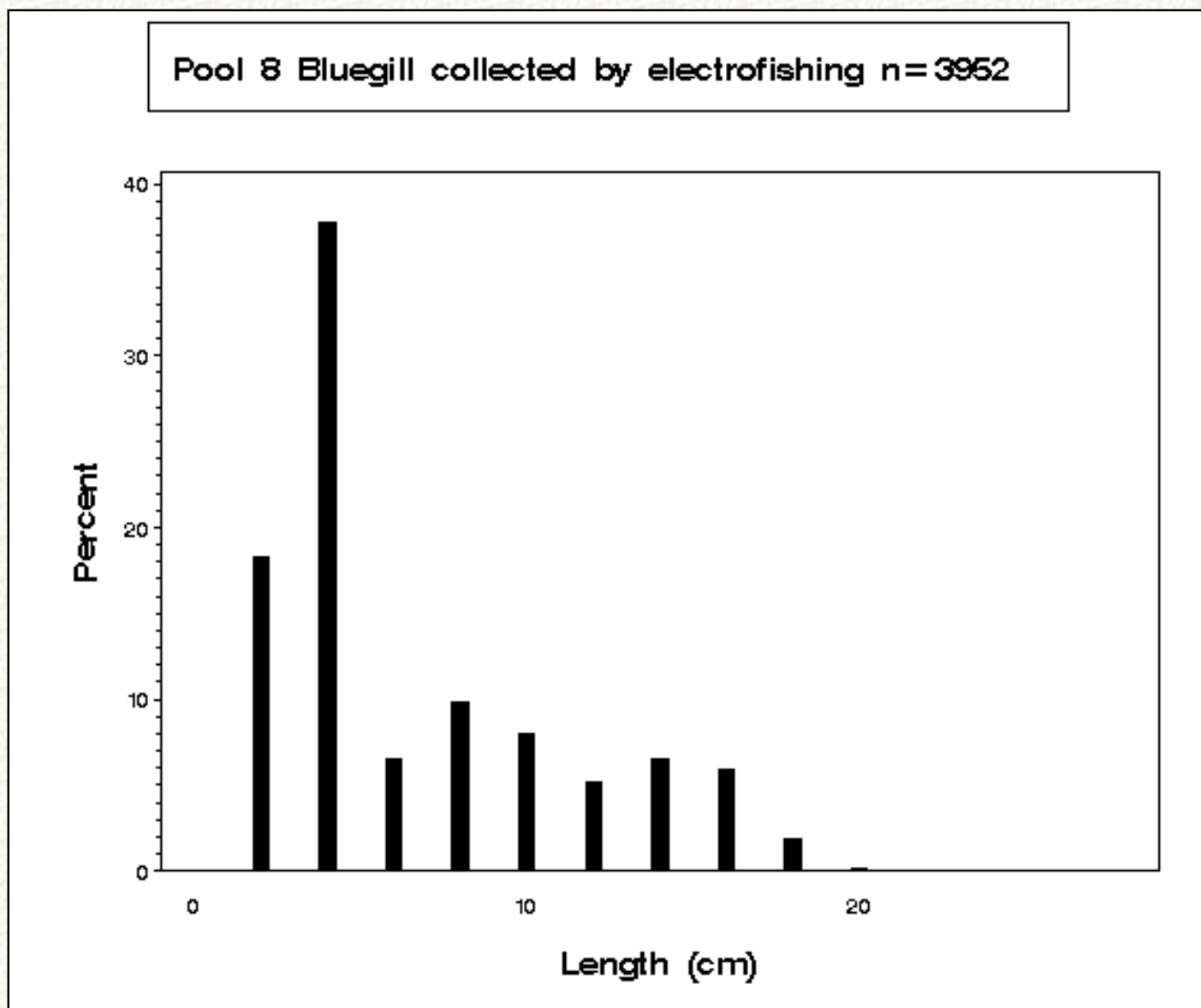
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**Figure 11.2** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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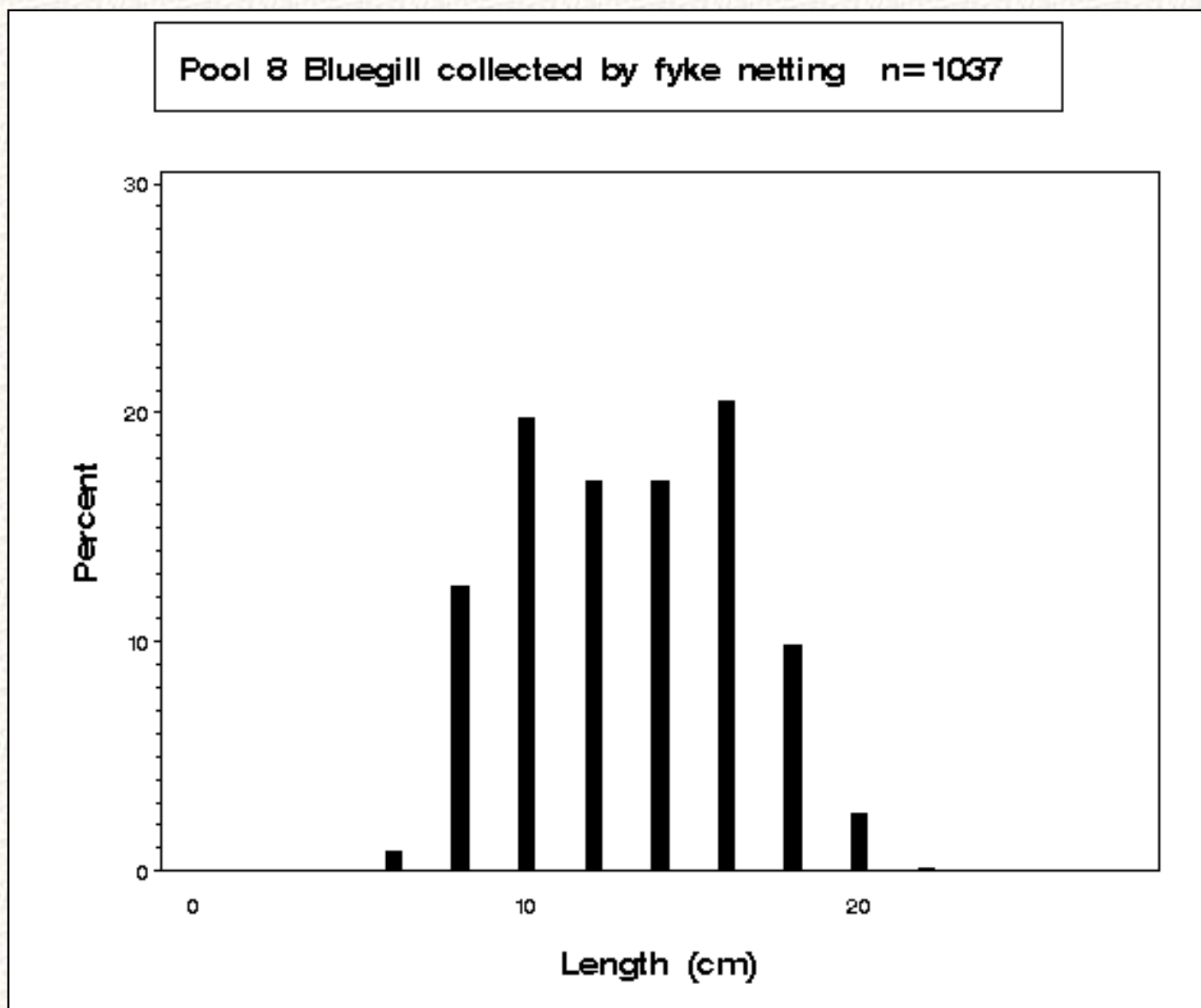
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**Figure 12.2** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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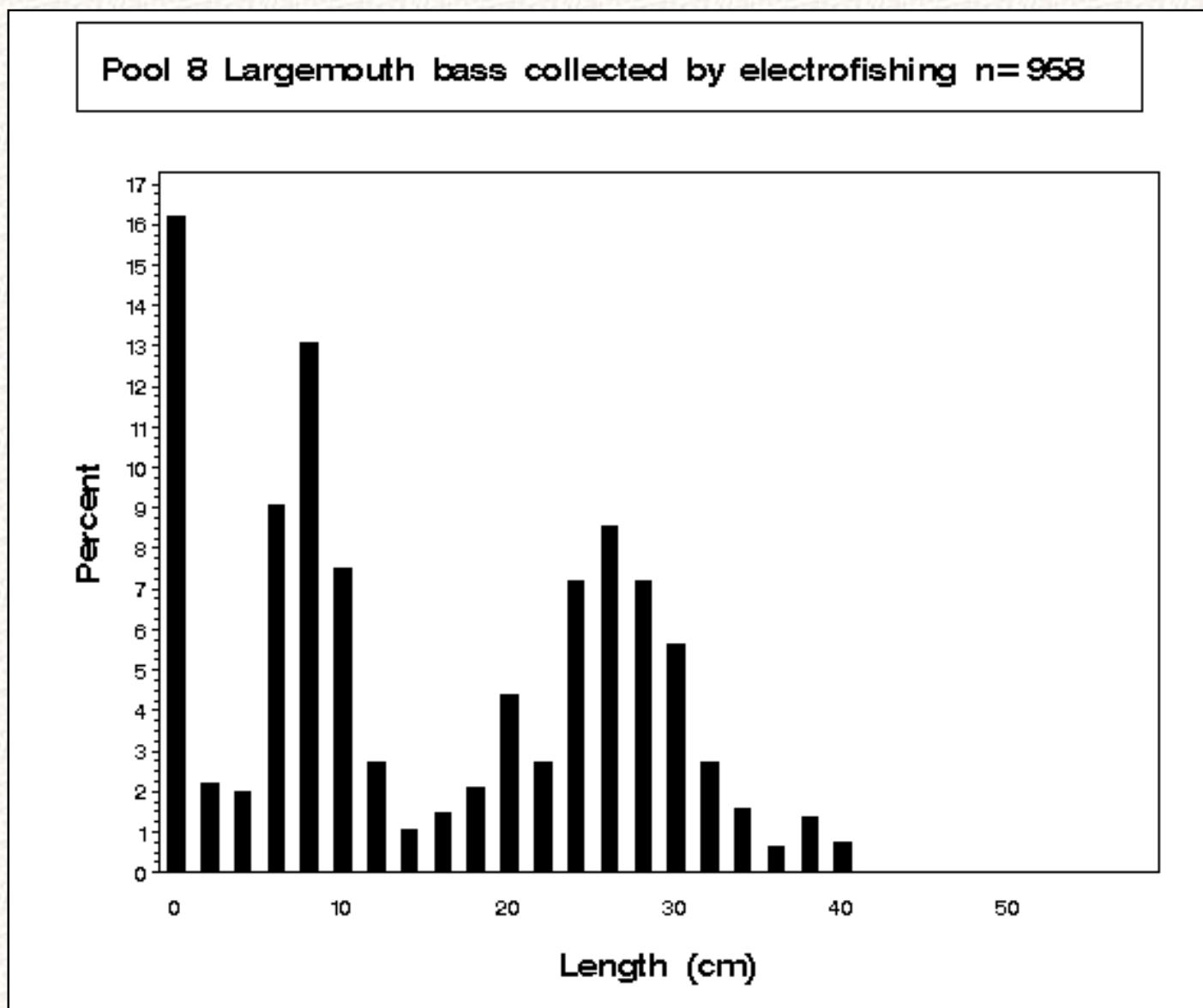
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**Figure 13.2** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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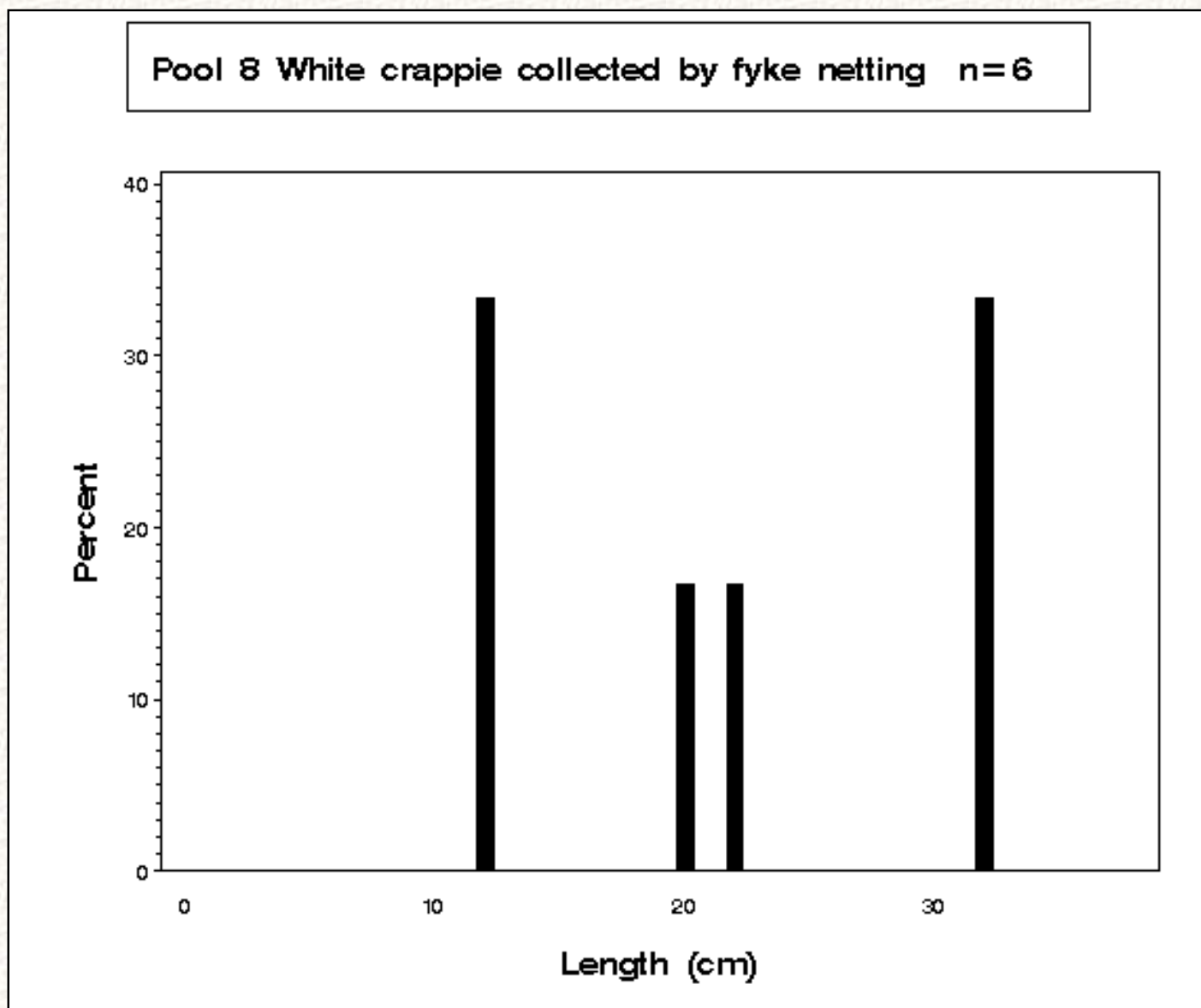
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**Figure 14.2** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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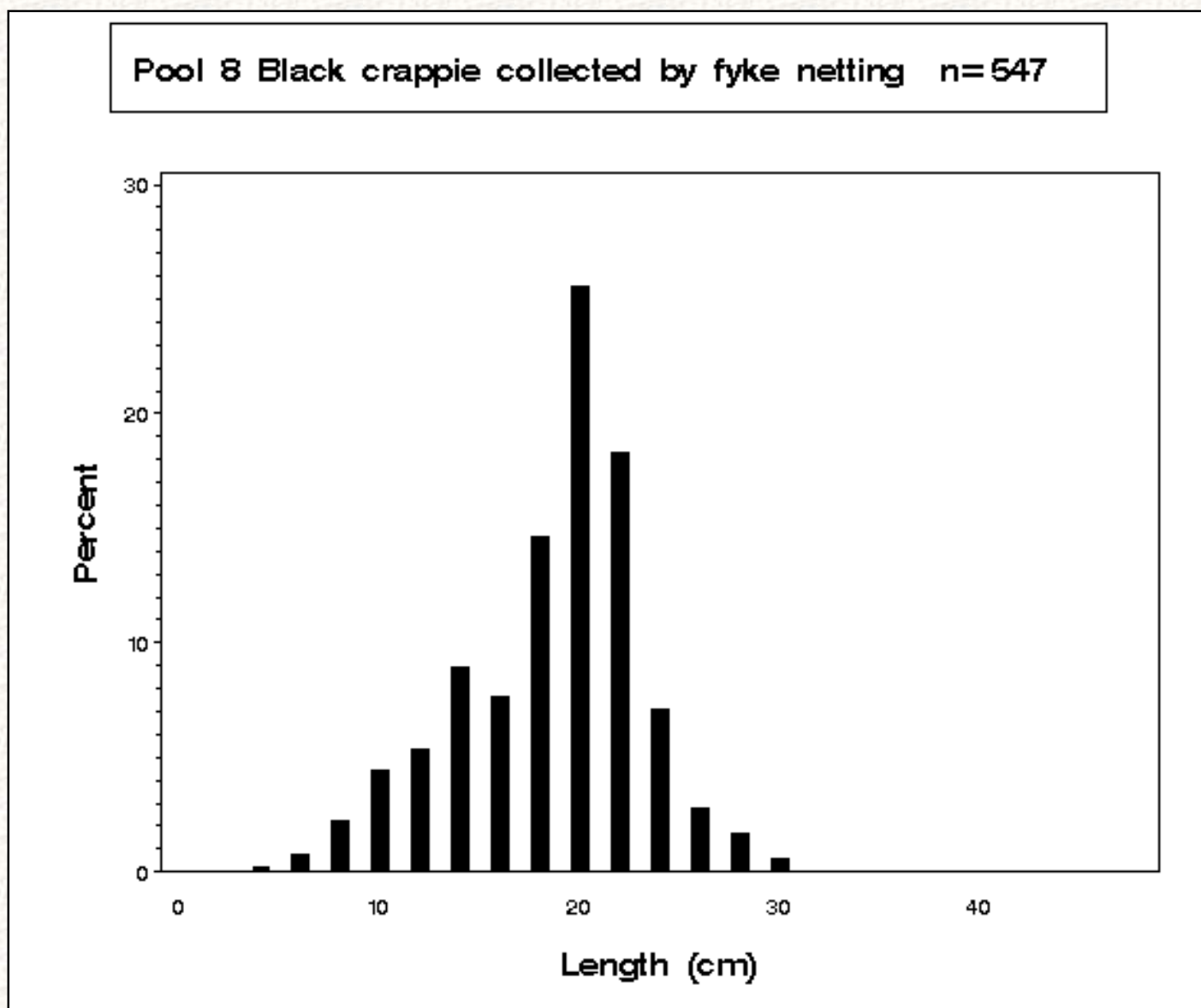
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**Figure 15.2** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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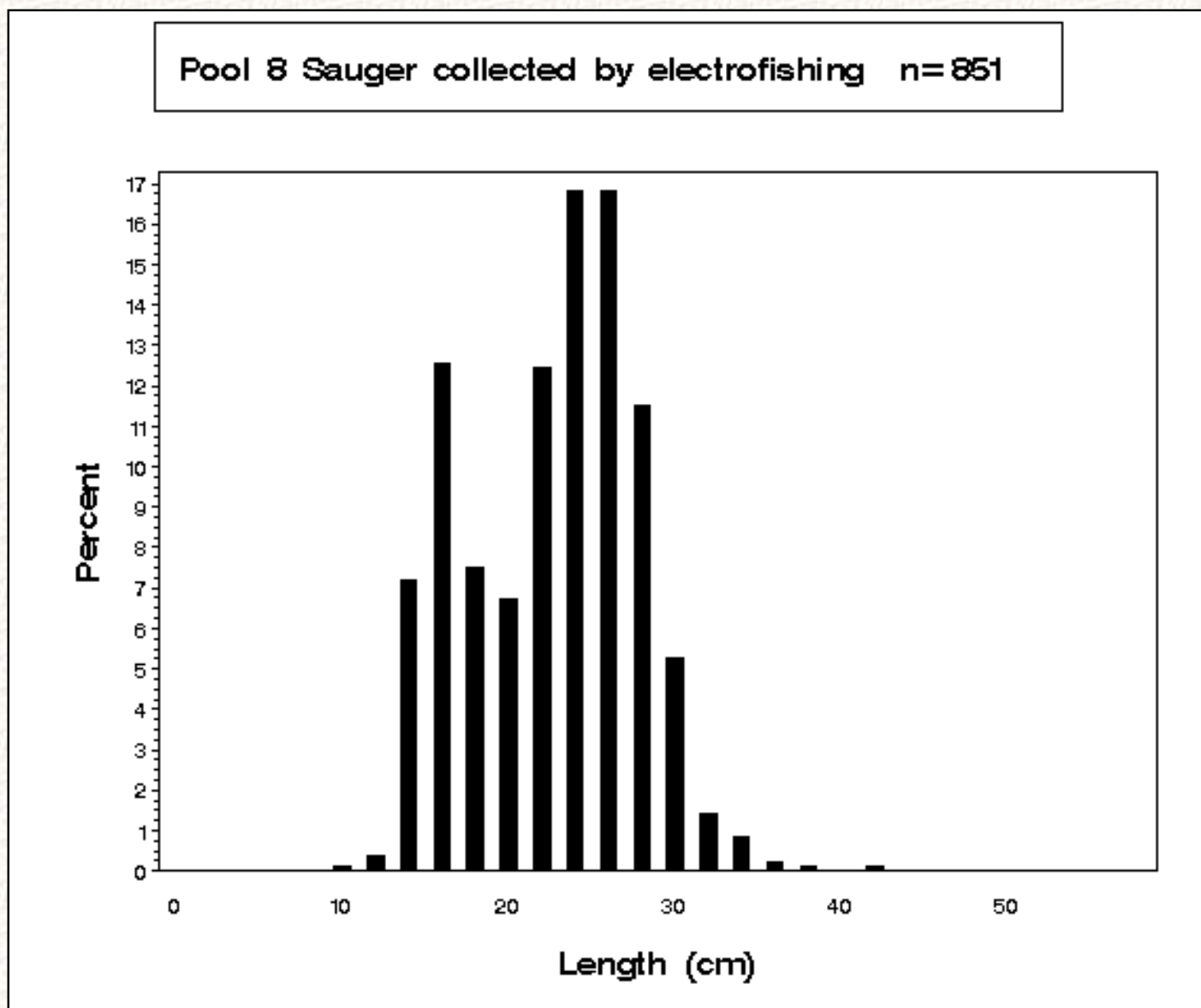
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**Figure 16.2** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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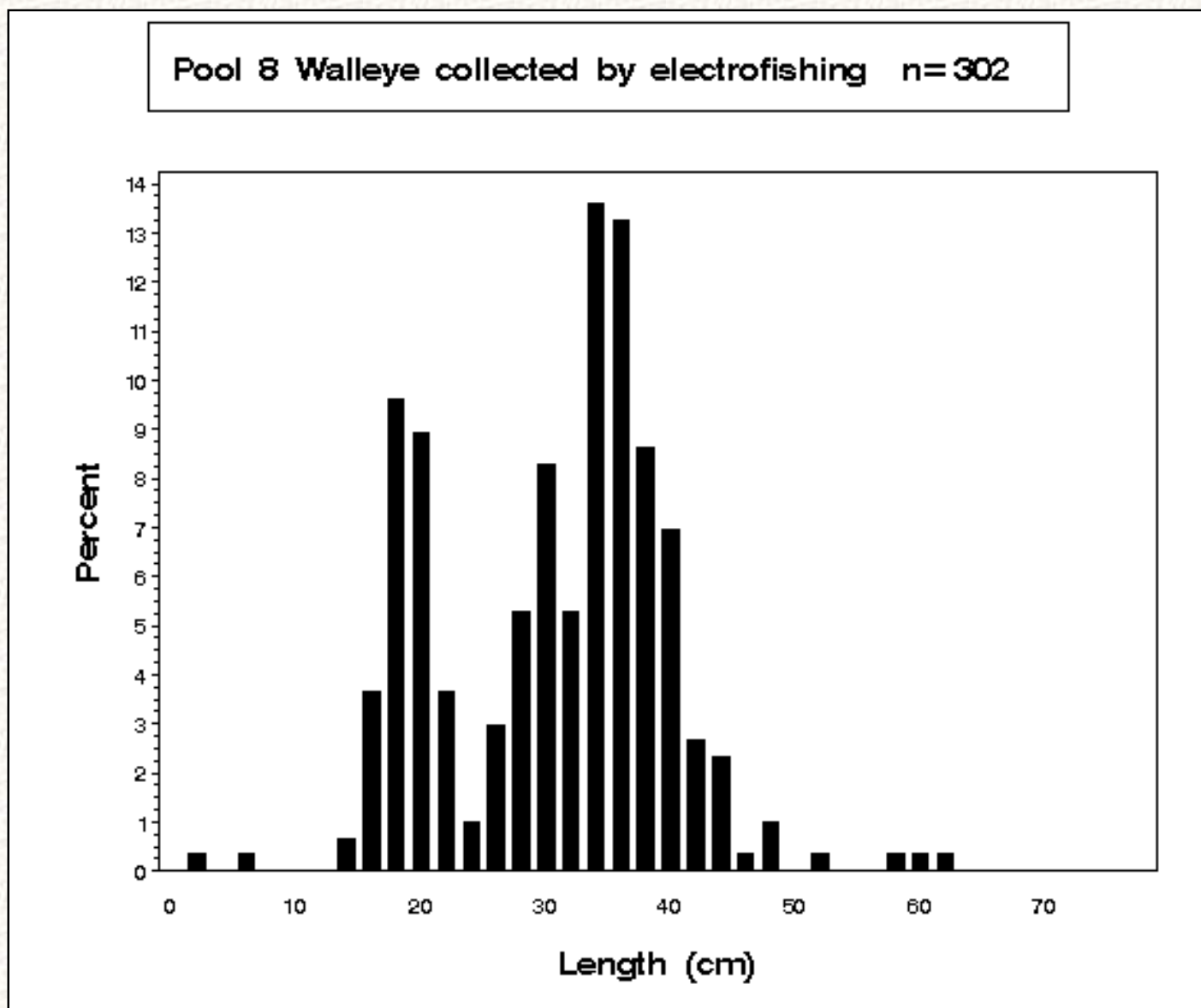
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**Figure 17.2** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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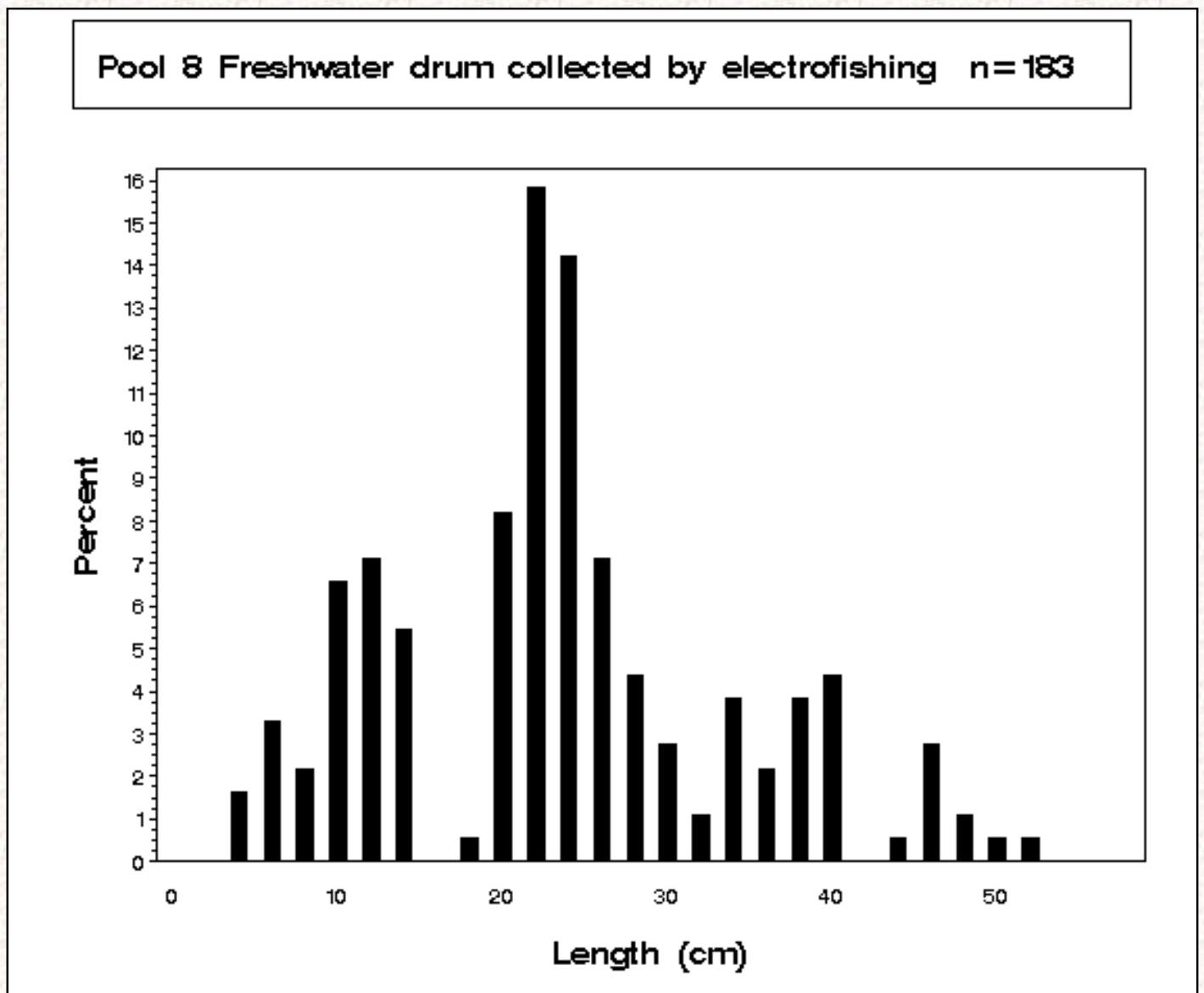
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**Figure 18.2** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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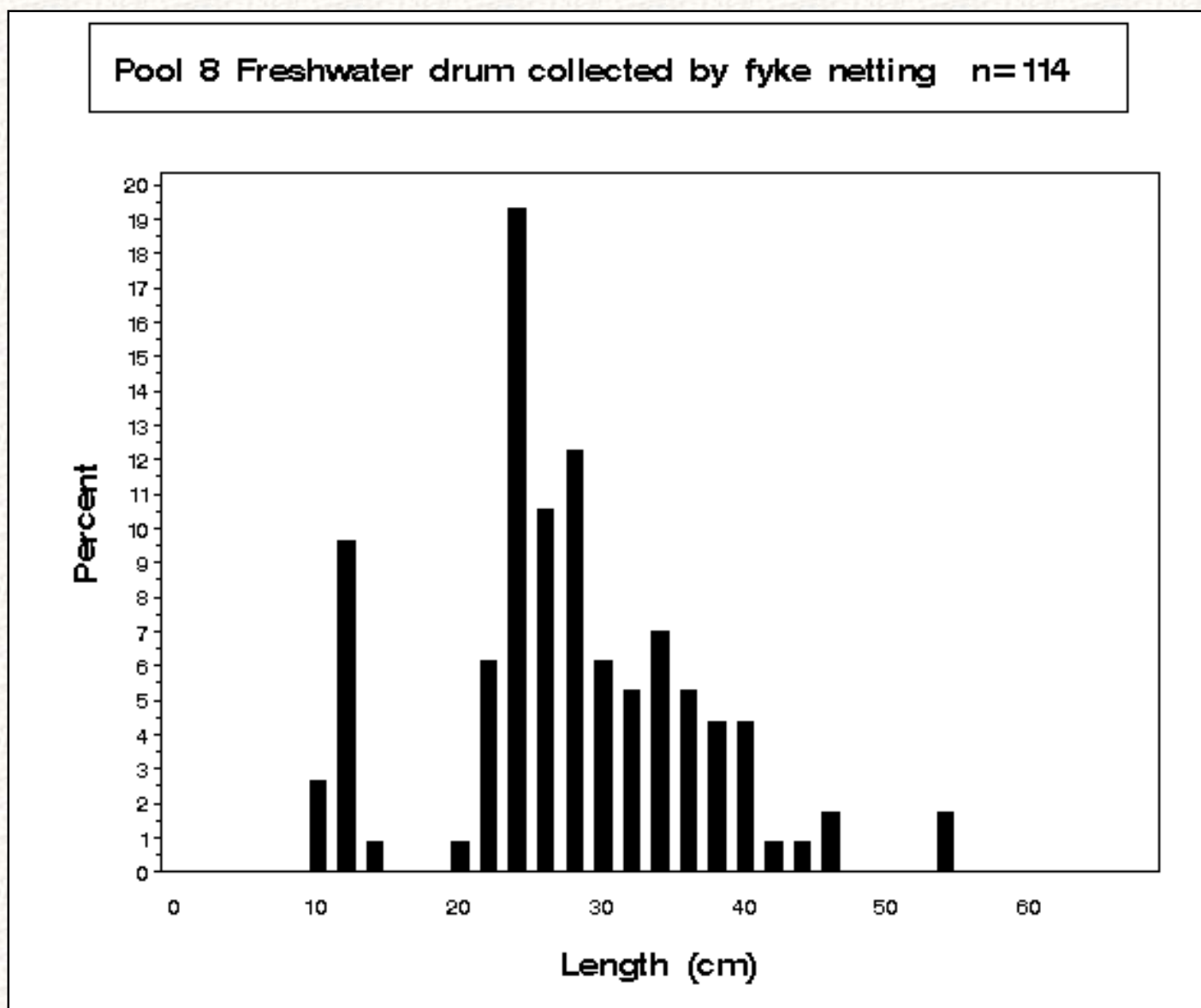
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**Figure 19.2** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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## Pool 13, Upper Mississippi River 2000 Fish Collection Summary

This report is a bullet summary of the [Long Term Resource Monitoring Program's](#) (LTRMP) fish collection efforts conducted by the [Bellevue Field Station](#) on [Pool 13](#), Upper Mississippi River during 2000. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 486 fish collections were conducted using 10 gear types ([Table 2.3](#)).
- Water levels did not affect sample allocations ([Table 2.3](#); [Figure 1.3](#)).
- Of the 486 fish collections, 438 were from randomly selected sites. Forty-eight collections were made at fixed sites.
- Backwater; main channel border, unstructured; and side channel border strata received the most sampling effort ([Table 2.3](#)).
- 89,468 fish were collected representing 69 species and 7 hybrids ([Table 3.3](#)).
- The LTRMP species total for Pool 13 before the 2000 season was 80; four new species were collected: central mudminnow (18), central stoneroller (1), grass pickerel (1) and spotted gar (2). These were the first documented occurrences of spotted gar in the state of Iowa ([Table 3.3](#)).
- Two bluntnose darters were collected that are an Iowa-listed endangered species ([Table 3.3](#)).
- Two Iowa-listed threatened species were collected—a grass pickerel and 22 western sand darters ([Table 3.3](#)).
- 95 pugnose minnows were collected that are an Iowa-listed species of special

concern ([Table 3.3](#)).

- Other species that were collected and are noted as uncommon, rare, or probably strays from tributaries (Pitlo et al. 1995) in Pool 13 were the Mississippi silvery minnow, sand shiner, suckermouth minnow, bluntnose minnow, fathead minnow, quillback, black buffalo, silver redhorse, stonecat, centralmudminnow, green sunfish, smallmouth bass, and slenderhead darter ([Table 3.3](#)).
- Mean catch-per-unit-effort and standard effort for fish collected by gears using stratified random ([Tables 4.3-12.3](#)) and fixed-site sampling ([Tables 15.3-21.3](#)) for each stratum are shown.
- Length distributions for selected species of fish are shown in [Figures 2.3 to 19.3](#).

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**Table 2.3** Allocation of fish sampling effort among strata in Pool 13 of the Upper Mississippi River during 2000. Table entries are numbers of successfully completed standardized monitoring collections.

### Sampling period = 1: June 15–July 31

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	8		2	4	3	4				21
Fyke net	10					4				14
Large hoop net			7	4	3		2		2	18
Small hoop net			7	4	3		2		2	18
Mini fyke net	10		2	4	3	4			2	25
Night electrofishing	2		2	2					2	8
Seine	12		4	12		8				36
Trawling									8	8
Tandem fyke net		5					2			7
Tandem mini fyke net		5					2			7
<b>Subtotal</b>	<b>42</b>	<b>10</b>	<b>24</b>	<b>30</b>	<b>12</b>	<b>20</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>162</b>

### Sampling period = 2: August 1–September 14

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	8		2	4	3	4				21
Fyke net	10					4				14
Large hoop net			7	4	3		2		2	18
Small hoop net			7	4	3		2		2	18
Mini fyke net	10		2	4	3	4			2	25
Night electrofishing	2		2	2					2	8
Seine	12		4	12		8				36
Trawling									8	8

Tandem fyke net		5					2			7
Tandem mini fyke net		5					2			7
<b>Subtotal</b>	<b>42</b>	<b>10</b>	<b>24</b>	<b>30</b>	<b>12</b>	<b>20</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>162</b>

### Sampling period = 3: September 15–October 31

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	8		2	4	3	4				21
Fyke net	10					4				14
Large hoop net			7	4	3		2		2	18
Small hoop net			7	4	3		2		2	18
Mini fyke net	10		2	4	3	4			2	25
Night electrofishing	2		2	2					2	8
Seine	12		4	12		8				36
Trawling									8	8
Tandem fyke net		5					2			7
Tandem mini fyke net		5					2			7
<b>Subtotal</b>	<b>42</b>	<b>10</b>	<b>24</b>	<b>30</b>	<b>12</b>	<b>20</b>	<b>8</b>	<b>0</b>	<b>16</b>	<b>162</b>
<b>Total</b>	<b>126</b>	<b>30</b>	<b>72</b>	<b>90</b>	<b>36</b>	<b>60</b>	<b>24</b>	<b>0</b>	<b>48</b>	<b>486</b>

#### Sampling strata:

**BWCS - Backwater, contiguous, shoreline**

**BWCO - Backwater, contiguous, offshore**

**SCB - Side channel border**

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**IMPS - Impounded, shoreline**

**IMPO - Impounded, offshore**

**TRI - Tributary mouth**

**TWZ - Tailwater**

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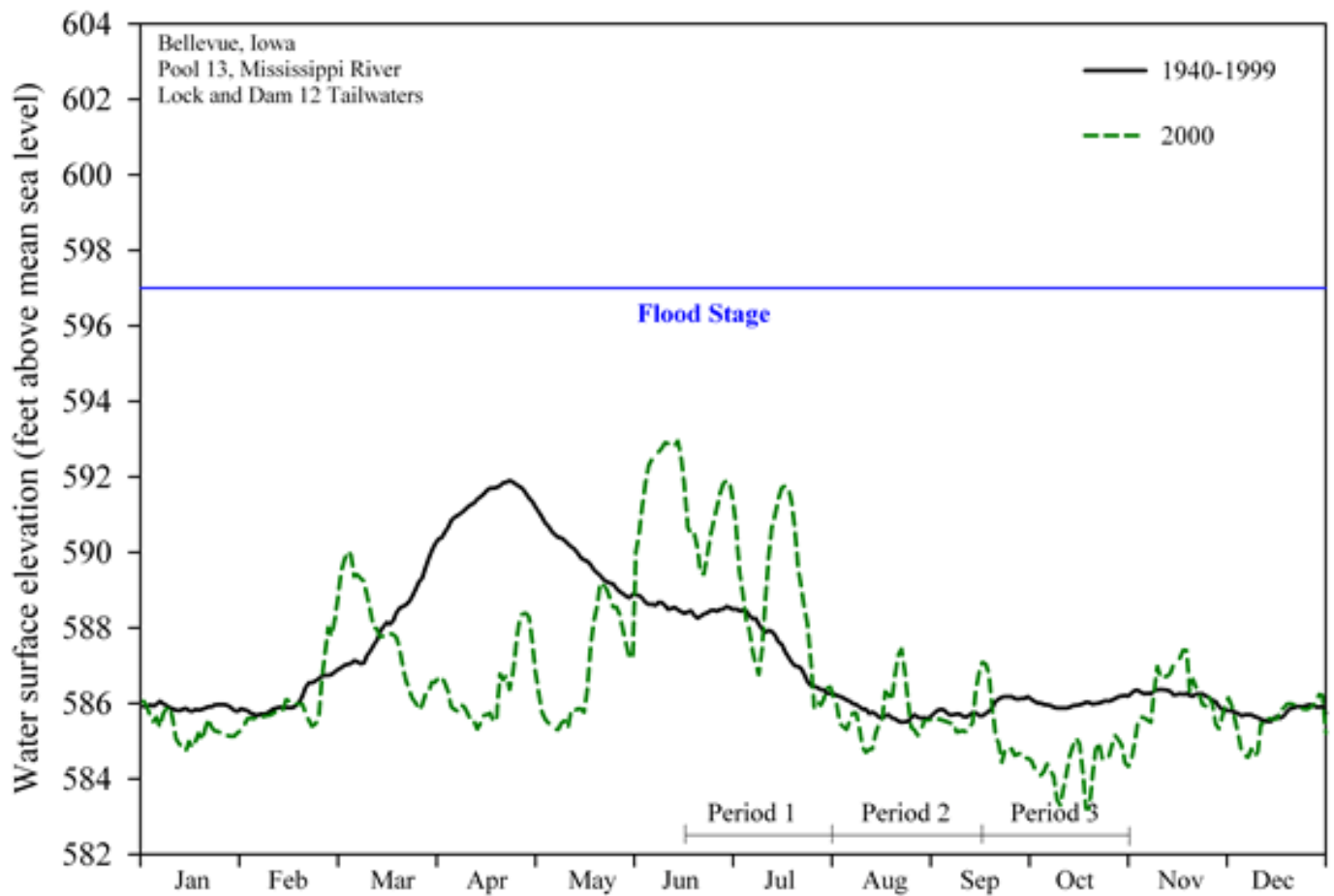


Figure 1.3 Daily water surface elevation from Lock and Dam 12 for Pool 13, Upper Mississippi River, during 2000 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski et al. 1995).

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**Table 3.3** Total catches, by gear type, of fish collected in Pool 13 of the Upper Mississippi River during 2000. See [Table 2.3](#) for the list of sampling gears actually deployed in this study reach.

Species	Common name	Scientific name	D	N	F	X	M	Y	S	HS	HL	G	TA	T	Total
1	Silver lamprey	<i>Ichthyomyzon unicuspis</i>	1	1	-	-	-	-	-	-	-	-	-	-	2
2	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	1	-	-	50	51
3	Spotted gar	<i>Lepisosteus oculatus</i>	-	-	1	-	1	-	-	-	-	-	-	-	2
4	Longnose gar	<i>L. osseus</i>	7	9	13	-	5	-	2	-	-	-	-	-	36
5	Shortnose gar	<i>L. platostomus</i>	9	9	105	23	45	4	10	-	-	-	-	-	205
6	Bowfin	<i>Amia calva</i>	12	3	24	2	3	-	2	-	-	-	-	-	46
7	Mooneye	<i>Hiodon tergisus</i>	1	3	-	-	2	-	1	-	-	-	-	-	7
8	Gizzard shad	<i>Dorosoma cepedianum</i>	1385	4918	668	177	247	11	191	-	-	-	-	1	7598
9	Central stoneroller	<i>Campostoma anomalum</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
10	Spotfin shiner	<i>Cyprinella spiloptera</i>	143	34	-	-	177	32	89	-	-	-	-	-	475
11	Common carp	<i>Cyprinus carpio</i>	414	115	26	15	59	3	14	8	5	-	-	-	659
12	Mississippi silvery minnow	<i>Hybognathus nuchalis</i>	6	-	-	-	-	-	1	-	-	-	-	-	7
13	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	1	-	-	18	-	-	-	-	-	-	50	69
14	Silver chub	<i>M. storeriana</i>	18	23	-	1	26	46	74	1	-	-	-	3	192
15	Golden shiner	<i>Notemigonus crysoleucas</i>	71	9	14	7	247	10	10	-	-	-	-	-	368
16	Emerald shiner	<i>Notropis atherinoides</i>	2121	1716	-	-	2507	176	4998	-	-	-	-	1	11519
17	River shiner	<i>N. blennioides</i>	194	69	-	-	3590	17	6586	-	-	-	-	-	10456
18	Spottail shiner	<i>N. hudsonius</i>	24	6	-	-	182	18	171	-	-	-	-	-	401
19	Sand shiner	<i>N. stramineus</i>	-	1	-	-	1	-	-	-	-	-	-	-	2
20	Mimic shiner	<i>N. volucellus</i>	568	1057	-	-	34512	743	2635	-	-	-	-	1	39516
21	Channel shiner	<i>N. wickliffi</i>	2	-	-	-	1	-	-	-	-	-	-	-	3



22	Pugnose minnow	<i>Opsopoeodus emiliae</i>	8	1	-	-	56	18	12	-	-	-	-	-	95
23	Suckermouth minnow	<i>Phenacobius mirabilis</i>	-	-	-	-	-	-	1	-	-	-	-	-	1
24	Bluntnose minnow	<i>Pimephales notatus</i>	-	-	-	-	13	-	2	-	-	-	-	-	15
25	Fathead minnow	<i>P. promelas</i>	-	1	-	-	-	1	3	-	-	-	-	-	5
26	Bullhead minnow	<i>P. vigilax</i>	256	73	-	-	989	217	612	-	-	-	-	-	2147
27	River carpsucker	<i>Carpiodes carpio</i>	36	1	6	-	4	-	11	-	2	-	-	-	60
28	Quillback	<i>C. cyprinus</i>	2	5	1	1	-	-	-	-	-	-	-	-	9
29	Highfin carpsucker	<i>C. velifer</i>	-	2	-	-	-	-	-	-	-	-	-	-	2
30	Smallmouth buffalo	<i>Ictiobus bubalus</i>	16	9	2	1	-	-	-	32	224	-	-	-	284
31	Bigmouth buffalo	<i>I. cyprinellus</i>	29	10	-	3	-	-	-	-	-	-	-	-	42
32	Black buffalo	<i>I. niger</i>	4	3	-	-	-	-	-	-	-	-	-	-	7
33	Unidentified buffalo	<i>Ictiobus sp.</i>	2	2	2	-	28	-	14	-	-	-	-	-	48
34	Spotted sucker	<i>Minytrema melanops</i>	19	8	21	1	4	1	-	-	-	-	-	-	54
35	Silver redhorse	<i>Moxostoma anisurum</i>	4	-	-	-	-	-	-	-	-	-	-	-	4
36	Golden redhorse	<i>M. erythrum</i>	1	2	-	-	-	-	-	-	-	-	-	1	4
37	Shorthead redhorse	<i>M. macrolepidotum</i>	76	55	17	13	2	1	-	7	10	-	-	1	182
38	Unidentified redhorse	<i>Moxostoma sp.</i>	-	-	-	-	2	-	7	-	-	-	-	-	9
39	Black bullhead	<i>Ameiurus melas</i>	-	-	-	2	7	-	-	-	-	-	-	-	9
40	Yellow bullhead	<i>A. natalis</i>	-	-	13	1	1	-	1	-	-	-	-	-	16
41	Channel catfish	<i>Ictalurus punctatus</i>	68	8	1	2	13	1	25	118	16	-	-	73	325
42	Stonecat	<i>Noturus flavus</i>	-	4	-	-	-	-	-	-	-	-	-	7	11
43	Tadpole madtom	<i>N. gyrinus</i>	1	3	-	2	43	37	14	-	-	-	-	-	100
44	Flathead catfish	<i>Pylodictis olivaris</i>	10	4	2	2	7	-	-	9	7	-	-	5	46
45	Grass pickerel	<i>Esox americanus vermiculatus</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
46	Northern pike	<i>E. lucius</i>	7	4	20	6	2	-	1	-	2	-	-	-	42
47	Central mudminnow	<i>Umbra limi</i>	-	-	-	-	12	-	6	-	-	-	-	-	18
48	Brook silverside	<i>Labidesthes sicculus</i>	52	59	-	-	815	4	911	-	-	-	-	-	1841
49	White bass	<i>Morone chrysops</i>	89	237	102	28	43	-	43	1	7	-	-	-	550
50	Yellow bass	<i>M. mississippiensis</i>	5	5	33	4	1	-	-	-	-	-	-	-	48

51	Striped x white bass	<i>M. saxatilis x chrysops</i>	-	-	2	-	-	-	-	-	-	-	-	-	2
52	Rock bass	<i>Ambloplites rupestris</i>	3	7	1	1	1	1	1	-	-	-	-	-	15
53	Green sunfish	<i>Lepomis cyanellus</i>	-	1	1	-	1	-	-	-	-	-	-	-	3
54	Pumpkinseed	<i>L. gibbosus</i>	44	17	578	36	95	64	54	3	-	-	-	-	891
55	Warmouth	<i>L. gulosus</i>	4	6	2	2	2	1	1	-	-	-	-	-	18
56	Orangespotted sunfish	<i>L. humilis</i>	363	76	9	5	395	50	68	-	-	-	-	-	966
57	Bluegill	<i>L. macrochirus</i>	630	523	1300	380	929	1666	1305	92	9	-	-	-	6834
58	Green x pumpkinseed sunfish	<i>L. cyanellus x gibbosus</i>	1	2	-	-	1	-	-	-	-	-	-	-	4
59	Pumpkinseed x orangespotted sunfish	<i>L. gibbosus x humilis</i>	-	-	-	-	-	1	-	-	-	-	-	-	1
60	Smallmouth bass	<i>Micropterus dolomieu</i>	13	53	-	-	-	-	3	-	-	-	-	-	69
61	Largemouth bass	<i>M. salmoides</i>	376	220	59	6	7	1	90	-	-	-	-	-	759
62	White crappie	<i>Pomoxis annularis</i>	35	13	151	15	27	45	8	2	2	-	-	-	298
63	Black crappie	<i>P. nigromaculatus</i>	104	13	360	107	48	49	8	18	10	-	-	-	717
64	Western sand darter	<i>Ammocrypta clara</i>	-	-	-	-	-	-	22	-	-	-	-	-	22
65	Mud darter	<i>Etheostoma asprigene</i>	-	1	-	-	4	-	2	-	-	-	-	-	7
66	Bluntnose darter	<i>E. chlorosomum</i>	-	-	-	-	1	-	1	-	-	-	-	-	2
67	Johnny darter	<i>E. nigrum</i>	1	6	-	-	36	5	76	-	-	-	-	-	124
68	Yellow perch	<i>Perca flavescens</i>	10	1	12	5	2	1	2	-	-	-	-	-	33
69	Logperch	<i>P. caprodes</i>	9	7	-	-	18	1	19	-	-	-	-	-	54
70	Slenderhead darter	<i>P. phoxocephala</i>	-	1	-	-	-	-	1	-	-	-	-	-	2
71	River darter	<i>P. shumardi</i>	-	6	-	-	23	9	16	-	-	-	-	1	55
72	Sauger	<i>Stizostedion canadense</i>	56	199	23	11	8	2	5	2	-	-	-	2	308
73	Walleye	<i>S. vitreum</i>	18	104	5	1	-	-	7	1	-	-	-	1	137
74	Freshwater drum	<i>Aplodinotus grunniens</i>	93	185	23	25	14	38	31	12	50	-	-	86	557
			<b>7421</b>	<b>9911</b>	<b>3597</b>	<b>885</b>	<b>45279</b>	<b>3274</b>	<b>18167</b>	<b>306</b>	<b>345</b>	<b>0</b>	<b>0</b>	<b>283</b>	<b>89468</b>

**Sampling gears:****D - Day electrofishing****N - Night electrofishing****F - Fyke netting****X - Tandem fyke netting****M - Mini fyke netting**

**Y - Tandem mini fyke netting**

**S - Seining**

**HS - Small hoop netting**

**HL - Large hoop netting**

**G - Gill netting**

**TA - Trammel netting**

**T- Trawling**

*Last updated on August 26, 2004*

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## Pool 13 Tables

Table*	Stratified Random Sampling
<a href="#">4.3</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">5.3</a>	Mean catch-per-unit-effort for fish collected by night electrofishing
<a href="#">6.3</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">7.3</a>	Mean catch-per-unit-effort for fish collected by tandem fyke netting
<a href="#">8.3</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">9.3</a>	Mean catch-per-unit-effort for fish collected by tandem mini fyke netting
<a href="#">10.3</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">11.3</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">12.3</a>	Mean catch-per-unit-effort for fish collected by seining
	Fixed-site Sampling
<a href="#">15.3</a>	Mean catch-per-unit-effort for fish collected by night electrofishing
<a href="#">17.3</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">18.3</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">19.3</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">21.3</a>	Mean catch-per-unit-effort for fish collected by bottom trawling
*Table numbers are not always in sequence because some gears were not fished in some study areas. Table numbers for each gear type are consistent among study areas.	

Content manager: [Jennie Sauer](#)

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**Table 4.3** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	MCBU	MCBW	SCB
<b>Silver lamprey</b>	0.03			0.08		
	(0.03)			(0.08)		
<b>Longnose gar</b>	0.20		0.08	0.08	0.11	0.67
	(0.17)		(0.08)	(0.08)	(0.11)	(0.67)
<b>Shortnose gar</b>	0.09	0.25			0.33	
	(0.04)	(0.11)			(0.17)	
<b>Bowfin</b>	0.17	0.38	0.17			0.17
	(0.09)	(0.22)	(0.11)			(0.17)
<b>Mooneye</b>	0.03			0.08		
	(0.03)			(0.08)		
<b>Gizzard shad</b>	20.68	46.88	5.00	8.92	6.33	6.00
	(6.63)	(19.33)	(2.68)	(3.12)	(2.64)	(4.65)
<b>Spotfin shiner</b>	2.74	3.33	1.67	1.50	0.11	4.00
	(0.78)	(1.27)	(1.11)	(0.73)	(0.11)	(2.34)
<b>Common carp</b>	8.12	9.71	2.17	7.67	1.89	7.67
	(1.55)	(2.90)	(0.79)	(2.58)	(1.43)	(2.94)
<b>Mississippi silvery minnow</b>	0.13	0.17		0.08		0.17

	(0.06)	(0.12)		(0.08)		(0.17)
<b>Silver chub</b>	0.34	0.33		0.17	0.44	0.67
	(0.13)	(0.16)		(0.11)	(0.44)	(0.42)
<b>Golden shiner</b>	0.81	2.29	1.33			
	(0.37)	(1.11)	(1.25)			
<b>Emerald shiner</b>	45.87	33.29	20.08	65.00	7.56	38.83
	(13.32)	(13.85)	(16.33)	(26.94)	(4.07)	(29.45)
<b>River shiner</b>	4.19	4.08	1.25	4.08	0.22	5.00
	(1.08)	(1.87)	(0.76)	(1.86)	(0.22)	(2.18)
<b>Spottail shiner</b>	0.60	0.33	0.25	0.50		1.17
	(0.27)	(0.14)	(0.25)	(0.42)		(0.83)
<b>Mimic shiner</b>	9.20	6.46	19.50	4.92	1.44	17.83
	(2.56)	(3.16)	(18.26)	(2.73)	(1.32)	(7.90)
<b>Channel shiner</b>	0.04	0.04		0.08		
	(0.03)	(0.04)		(0.08)		
<b>Pugnose minnow</b>	0.11	0.33				
	(0.09)	(0.26)				
<b>Bullhead minnow</b>	4.20	5.58	5.67	0.75	0.11	7.33
	(1.35)	(2.99)	(2.91)	(0.39)	(0.11)	(3.52)
<b>River carpsucker</b>	0.57	1.13	0.17	0.50	0.11	
	(0.19)	(0.45)	(0.17)	(0.34)	(0.11)	
<b>Quillback</b>	0.04	0.04		0.08		
	(0.03)	(0.04)		(0.08)		
<b>Smallmouth buffalo</b>	0.27	0.46		0.08	0.22	0.33
	(0.11)	(0.28)		(0.08)	(0.15)	(0.21)
<b>Bigmouth buffalo</b>	0.61	0.88		0.17		1.00
	(0.26)	(0.41)		(0.17)		(0.82)
<b>Black buffalo</b>	0.08	0.13				0.17
	(0.05)	(0.09)				(0.17)
<b>Unidentified buffalo</b>	0.03	0.08				

	(0.02)	(0.06)				
<b>Spotted sucker</b>	0.20	0.54	0.50			
	(0.08)	(0.23)	(0.29)			
<b>Silver redhorse</b>	0.00				0.44	
	(0.00)				(0.34)	
<b>Golden redhorse</b>	0.03			0.08		
	(0.03)			(0.08)		
<b>Shorthead redhorse</b>	1.26	0.21	0.42	2.42	3.44	1.00
	(0.84)	(0.08)	(0.42)	(2.24)	(1.47)	(0.52)
<b>Channel catfish</b>	1.09	1.38	0.67	1.17	1.00	0.67
	(0.28)	(0.46)	(0.33)	(0.58)	(0.71)	(0.33)
<b>Tadpole madtom</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Flathead catfish</b>	0.21	0.13	0.17	0.33		0.17
	(0.11)	(0.07)	(0.11)	(0.26)		(0.17)
<b>Northern pike</b>	0.10	0.29				
	(0.04)	(0.13)				
<b>Brook silverside</b>	0.52	1.04	2.00	0.17		0.17
	(0.26)	(0.71)	(1.91)	(0.17)		(0.17)
<b>White bass</b>	2.15	1.50	0.50	2.00	0.22	3.50
	(0.72)	(0.57)	(0.29)	(0.91)	(0.22)	(2.38)
<b>Yellow bass</b>	0.10	0.17				0.17
	(0.06)	(0.13)				(0.17)
<b>Rock bass</b>	0.01		0.25			
	(0.01)		(0.25)			
<b>Pumpkinseed</b>	0.44	0.92	1.67	0.08		0.17
	(0.21)	(0.60)	(0.51)	(0.08)		(0.17)
<b>Warmouth</b>	0.04	0.13	0.08			
	(0.02)	(0.07)	(0.08)			
<b>Orangespotted sunfish</b>	5.48	14.08	0.58			3.00



	(2.77)	(8.19)	(0.29)			(2.05)
<b>Bluegill</b>	7.09	16.96	16.58	0.58	0.22	2.50
	(1.64)	(4.73)	(7.50)	(0.36)	(0.15)	(1.43)
<b>Green x pumpkinseed sunfish</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Smallmouth bass</b>	0.35		0.17	0.58	0.11	0.50
	(0.18)		(0.17)	(0.36)	(0.11)	(0.50)
<b>Largemouth bass</b>	5.63	7.83	8.50	4.92	0.67	3.50
	(1.48)	(1.68)	(4.30)	(3.57)	(0.47)	(1.23)
<b>White crappie</b>	0.49	1.46				
	(0.18)	(0.53)				
<b>Black crappie</b>	1.44	4.00	0.50			0.33
	(0.47)	(1.38)	(0.26)			(0.33)
<b>Johnny darter</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Yellow perch</b>	0.13	0.38	0.08			
	(0.08)	(0.23)	(0.08)			
<b>Logperch</b>	0.12	0.04	0.25	0.25	0.22	
	(0.07)	(0.04)	(0.18)	(0.18)	(0.22)	
<b>Sauger</b>	1.14	0.79	0.50	1.17	0.78	1.67
	(0.27)	(0.24)	(0.23)	(0.52)	(0.55)	(0.67)
<b>Walleye</b>	0.31	0.50		0.17	0.22	0.33
	(0.10)	(0.21)		(0.11)	(0.15)	(0.21)
<b>Freshwater drum</b>	2.08	1.96	0.25	1.42	0.56	3.50
	(0.57)	(0.65)	(0.13)	(0.73)	(0.34)	(1.78)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border**

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**Table 5.3** Mean catch-per-unit-effort and (standard error) for fish collected by night electrofishing in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	MCBU	SCB
<b>Longnose gar</b>	0.22		0.33	0.33
	(0.10)		(0.21)	(0.21)
<b>Shortnose gar</b>	0.15	0.17		0.33
	(0.08)	(0.17)		(0.21)
<b>Bowfin</b>	0.06	0.17		
	(0.06)	(0.17)		
<b>Mooneye</b>	0.15		0.17	0.33
	(0.09)		(0.17)	(0.21)
<b>Gizzard shad</b>	14.10	23.83	6.00	13.17
	(3.64)	(8.02)	(4.63)	(5.71)
<b>Spotfin shiner</b>	1.32	0.50	0.33	3.83
	(0.93)	(0.50)	(0.21)	(3.44)
<b>Common carp</b>	5.75	4.50	8.17	3.83
	(1.62)	(1.52)	(3.79)	(1.58)
<b>Silver chub</b>	1.05	1.00	0.67	1.67
	(0.36)	(0.52)	(0.33)	(1.09)
<b>Golden shiner</b>	0.23	0.67		

	(0.15)	(0.42)		
<b>Emerald shiner</b>	23.02	2.33	19.17	55.83
	(6.89)	(1.02)	(12.33)	(18.73)
<b>River shiner</b>	1.49		1.33	3.67
	(0.91)		(0.71)	(3.27)
<b>Spottail shiner</b>	0.22		0.33	0.33
	(0.14)		(0.33)	(0.21)
<b>Mimic shiner</b>	11.85	2.83	17.00	16.17
	(3.34)	(2.64)	(6.89)	(6.73)
<b>Pugnose minnow</b>	0.04			0.17
	(0.04)			(0.17)
<b>Bullhead minnow</b>	3.44	1.83	1.67	8.17
	(0.82)	(0.98)	(0.80)	(2.59)
<b>River carpsucker</b>	0.04			0.17
	(0.04)			(0.17)
<b>Quillback</b>	0.22			0.83
	(0.08)			(0.31)
<b>Highfin carpsucker</b>	0.09			0.33
	(0.09)			(0.33)
<b>Smallmouth buffalo</b>	0.29		0.17	0.83
	(0.18)		(0.17)	(0.65)
<b>Bigmouth buffalo</b>	0.51	0.33	0.33	1.00
	(0.30)	(0.33)	(0.21)	(1.00)
<b>Black buffalo</b>	0.17		0.33	0.17
	(0.14)		(0.33)	(0.17)
<b>Unidentified buffalo</b>	0.12	0.33		
	(0.07)	(0.21)		
<b>Spotted sucker</b>	0.46	1.33		
	(0.28)	(0.80)		
<b>Golden redhorse</b>	0.04			0.17

	(0.04)			(0.17)
<b>Shorthead redhorse</b>	2.77	1.00	4.67	2.33
	(0.96)	(0.63)	(2.33)	(0.95)
<b>Channel catfish</b>	0.43	0.67	0.50	
	(0.14)	(0.33)	(0.22)	
<b>Stonecat</b>	0.20		0.17	0.50
	(0.15)		(0.17)	(0.50)
<b>Tadpole madtom</b>	0.17	0.50		
	(0.17)	(0.50)		
<b>Flathead catfish</b>	0.11		0.17	0.17
	(0.08)		(0.17)	(0.17)
<b>Northern pike</b>	0.11		0.17	0.17
	(0.08)		(0.17)	(0.17)
<b>Brook silverside</b>	0.81	0.33	1.00	1.17
	(0.26)	(0.21)	(0.52)	(0.54)
<b>White bass</b>	3.89	1.33	6.00	4.17
	(0.57)	(0.56)	(1.13)	(1.19)
<b>Yellow bass</b>	0.17	0.50		
	(0.17)	(0.50)		
<b>Rock bass</b>	0.04			0.17
	(0.04)			(0.17)
<b>Pumpkinseed</b>	0.57	1.00	0.33	0.33
	(0.23)	(0.52)	(0.33)	(0.21)
<b>Warmouth</b>	0.16	0.33		0.17
	(0.12)	(0.33)		(0.17)
<b>Orangespotted sunfish</b>	3.16	7.00	0.50	2.00
	(1.12)	(3.00)	(0.34)	(1.44)
<b>Bluegill</b>	22.37	35.33	8.17	26.17
	(6.93)	(12.12)	(6.46)	(18.52)
<b>Smallmouth bass</b>	0.49	0.33	0.50	0.67

	(0.17)	(0.33)	(0.22)	(0.33)
<b>Largemouth bass</b>	5.39	8.00	2.17	6.67
	(0.95)	(1.44)	(1.60)	(1.98)
<b>White crappie</b>	0.62	1.67		0.17
	(0.38)	(1.09)		(0.17)
<b>Black crappie</b>	0.49	0.67	0.33	0.50
	(0.23)	(0.49)	(0.33)	(0.34)
<b>Mud darter</b>	0.06	0.17		
	(0.06)	(0.17)		
<b>Johnny darter</b>	0.30	0.17	0.17	0.67
	(0.16)	(0.17)	(0.17)	(0.49)
<b>Logperch</b>	0.25	0.33	0.33	
	(0.17)	(0.33)	(0.33)	
<b>Slenderhead darter</b>	0.06		0.17	
	(0.06)		(0.17)	
<b>River darter</b>	0.32		0.83	
	(0.25)		(0.65)	
<b>Sauger</b>	3.62	1.50	5.83	3.17
	(0.96)	(0.96)	(2.12)	(1.35)
<b>Walleye</b>	1.32	2.00	1.17	0.67
	(0.65)	(1.63)	(0.79)	(0.21)
<b>Freshwater drum</b>	5.29	4.83	5.67	5.33
	(1.14)	(1.78)	(2.17)	(1.71)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****MCBU - Main channel border, unstructured****SCB - Side channel border**

*Last updated on August 26, 2004*

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**Table 6.3** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS
<b>Spotted gar</b>	0.01		0.09
	(0.01)		(0.09)
<b>Longnose gar</b>	0.40	0.43	0.08
	(0.15)	(0.17)	(0.08)
<b>Shortnose gar</b>	2.44	2.37	3.11
	(0.60)	(0.66)	(1.13)
<b>Bowfin</b>	0.74	0.81	0.08
	(0.18)	(0.20)	(0.08)
<b>Gizzard shad</b>	20.29	22.22	1.96
	(15.49)	(17.19)	(0.85)
<b>Common carp</b>	0.68	0.68	0.62
	(0.20)	(0.22)	(0.24)
<b>Golden shiner</b>	0.43	0.46	0.08
	(0.25)	(0.27)	(0.08)
<b>River carpsucker</b>	0.09	0.07	0.31
	(0.05)	(0.05)	(0.31)
<b>Quillback</b>	0.01		0.08



	(0.01)		(0.08)
<b>Smallmouth buffalo</b>	0.07	0.07	
	(0.05)	(0.05)	
<b>Unidentified buffalo</b>	0.07	0.07	
	(0.05)	(0.05)	
<b>Spotted sucker</b>	0.66	0.72	0.08
	(0.37)	(0.41)	(0.08)
<b>Shorthead redhorse</b>	0.38	0.36	0.54
	(0.13)	(0.13)	(0.54)
<b>Yellow bullhead</b>	0.28	0.26	0.48
	(0.17)	(0.19)	(0.32)
<b>Channel catfish</b>	0.03	0.03	
	(0.03)	(0.03)	
<b>Flathead catfish</b>	0.06	0.07	
	(0.04)	(0.05)	
<b>Northern pike</b>	0.59	0.63	0.17
	(0.17)	(0.18)	(0.11)
<b>White bass</b>	3.16	3.44	0.42
	(1.20)	(1.34)	(0.26)
<b>Yellow bass</b>	1.04	1.15	
	(0.39)	(0.43)	
<b>Striped x white bass</b>	0.01		0.15
	(0.01)		(0.15)
<b>Rock bass</b>	0.03	0.03	
	(0.03)	(0.03)	
<b>Green sunfish</b>	0.01		0.09
	(0.01)		(0.09)
<b>Pumpkinseed</b>	6.44	2.38	44.95
	(3.72)	(2.27)	(33.02)
<b>Warmouth</b>	0.02		0.18

	(0.01)		(0.12)
<b>Orangespotted sunfish</b>	0.26	0.28	0.08
	(0.09)	(0.10)	(0.08)
<b>Bluegill</b>	32.96	33.20	30.73
	(19.28)	(21.35)	(12.02)
<b>Largemouth bass</b>	1.49	1.51	1.38
	(0.49)	(0.54)	(0.73)
<b>White crappie</b>	4.75	5.22	0.26
	(1.81)	(2.01)	(0.19)
<b>Black crappie</b>	10.98	11.94	1.91
	(3.85)	(4.27)	(0.79)
<b>Yellow perch</b>	0.19	0.14	0.67
	(0.09)	(0.10)	(0.35)
<b>Sauger</b>	0.69	0.74	0.18
	(0.30)	(0.34)	(0.18)
<b>Walleye</b>	0.14	0.14	0.08
	(0.10)	(0.11)	(0.08)
<b>Freshwater drum</b>	0.73	0.81	
	(0.33)	(0.37)	

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_13/tb3\\_\\_ia0005.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_13/tb3__ia0005.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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**Table 7.3** Mean catch-per-unit-effort and (standard error) for fish collected by tandem fyke netting in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO	IMPO
<b>Shortnose gar</b>	0.33	0.74	0.08
	(0.15)	(0.37)	(0.08)
<b>Bowfin</b>	0.02	0.07	
	(0.02)	(0.07)	
<b>Gizzard shad</b>	5.33	3.57	6.37
	(3.30)	(2.14)	(5.08)
<b>Common carp</b>	0.36	0.37	0.35
	(0.18)	(0.20)	(0.26)
<b>Silver chub</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Golden shiner</b>	0.17	0.17	0.18
	(0.09)	(0.14)	(0.11)
<b>Quillback</b>	0.05		0.08
	(0.05)		(0.08)
<b>Smallmouth buffalo</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Bigmouth buffalo</b>	0.08	0.07	0.09

	(0.06)	(0.05)	(0.09)
<b>Spotted sucker</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Shorthead redhorse</b>	0.56	0.10	0.84
	(0.24)	(0.07)	(0.38)
<b>Black bullhead</b>	0.02	0.07	
	(0.02)	(0.07)	
<b>Yellow bullhead</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Channel catfish</b>	0.07	0.03	0.08
	(0.05)	(0.03)	(0.08)
<b>Tadpole madtom</b>	0.10		0.16
	(0.10)		(0.16)
<b>Flathead catfish</b>	0.07	0.03	0.08
	(0.05)	(0.03)	(0.08)
<b>Northern pike</b>	0.12	0.17	0.09
	(0.06)	(0.08)	(0.09)
<b>White bass</b>	1.17	0.32	1.66
	(0.74)	(0.17)	(1.17)
<b>Yellow bass</b>	0.10	0.11	0.09
	(0.06)	(0.07)	(0.09)
<b>Rock bass</b>	0.06		0.09
	(0.06)		(0.09)
<b>Pumpkinseed</b>	1.22	0.60	1.58
	(0.55)	(0.25)	(0.85)
<b>Warmouth</b>	0.07	0.04	0.08
	(0.06)	(0.04)	(0.08)
<b>Orangespotted sunfish</b>	0.06	0.17	
	(0.03)	(0.08)	
<b>Bluegill</b>	5.07	12.62	0.68

	(1.46)	(3.83)	(0.58)
<b>Largemouth bass</b>	0.12	0.17	0.08
	(0.08)	(0.17)	(0.08)
<b>White crappie</b>	0.24	0.48	0.09
	(0.08)	(0.16)	(0.09)
<b>Black crappie</b>	1.41	3.52	0.18
	(0.49)	(1.32)	(0.11)
<b>Yellow perch</b>	0.06	0.17	
	(0.04)	(0.11)	
<b>Sauger</b>	0.44	0.14	0.61
	(0.14)	(0.10)	(0.21)
<b>Walleye</b>	0.05		0.09
	(0.05)		(0.09)
<b>Freshwater drum</b>	0.69	0.54	0.77
	(0.19)	(0.26)	(0.26)

**Sampling strata:****BWCO - Backwater, contiguous, offshore****IMPO - Impounded, offshore***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_13/tb3\\_\\_ia0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_13/tb3__ia0006.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 8.3** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	MCBU	MCBW	SCB
<b>Spotted gar</b>	0.04					0.17
	(0.04)					(0.17)
<b>Longnose gar</b>	0.08	0.11	0.09			0.18
	(0.05)	(0.06)	(0.09)			(0.18)
<b>Shortnose gar</b>	0.43	0.80	1.55	0.19		0.17
	(0.11)	(0.27)	(0.58)	(0.13)		(0.17)
<b>Bowfin</b>	0.05	0.03		0.09		
	(0.04)	(0.03)		(0.09)		
<b>Mooneye</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Gizzard shad</b>	1.35	1.01	1.50	0.91	19.44	2.02
	(0.60)	(0.38)	(0.83)	(0.74)	(19.20)	(2.02)
<b>Central stoneroller</b>	0.01	0.04				

	(0.01)	(0.04)				
<b>Spotfin shiner</b>	3.27	0.79	3.11	6.55	3.25	1.75
	(1.32)	(0.39)	(1.23)	(3.51)	(2.73)	(0.65)
<b>Common carp</b>	0.56	1.43	1.28	0.09		
	(0.27)	(0.79)	(0.70)	(0.09)		
<b>Silver chub</b>	0.33	0.78		0.08		0.16
	(0.14)	(0.39)		(0.08)		(0.16)
<b>Golden shiner</b>	2.73	7.92			0.11	0.37
	(1.94)	(5.83)			(0.11)	(0.37)
<b>Emerald shiner</b>	27.49	23.12	6.90	32.04	26.56	29.41
	(12.11)	(12.64)	(3.92)	(23.76)	(18.27)	(28.19)
<b>River shiner</b>	35.88	2.84	222.59	26.59	20.16	67.39
	(18.25)	(1.26)	(139.97)	(11.88)	(12.89)	(67.18)
<b>Spottail shiner</b>	2.18	5.17	2.00	0.43		0.89
	(1.17)	(3.49)	(1.07)	(0.19)		(0.58)
<b>Sand shiner</b>	0.03			0.08		
	(0.03)			(0.08)		
<b>Mimic shiner</b>	959.92	15.62	47.22	2528.78	180.81	46.20
	(920.66)	(6.21)	(32.22)	(2479.24)	(96.98)	(41.60)
<b>Pugnose minnow</b>	0.62	1.03	0.09	0.08	0.79	0.92
	(0.29)	(0.54)	(0.09)	(0.08)	(0.57)	(0.92)
<b>Bluntnose minnow</b>	0.09		0.88	0.17	0.11	
	(0.05)		(0.88)	(0.11)	(0.11)	

<b>Bullhead minnow</b>	12.06	12.10	22.02	17.72	11.96	2.32
	(6.03)	(3.87)	(10.78)	(15.79)	(8.85)	(1.65)
<b>River carpsucker</b>	0.01		0.35			
	(0.01)		(0.35)			
<b>Unidentified buffalo</b>	0.12	0.14	2.06			
	(0.06)	(0.08)	(1.42)			
<b>Spotted sucker</b>	0.04	0.13				
	(0.03)	(0.08)				
<b>Shorthead redhorse</b>	0.03			0.09	0.11	
	(0.03)			(0.09)	(0.11)	
<b>Unidentified redhorse</b>	0.01	0.04	0.08			
	(0.01)	(0.04)	(0.08)			
<b>Black bullhead</b>	0.10	0.16	0.08			0.18
	(0.06)	(0.11)	(0.08)			(0.18)
<b>Yellow bullhead</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Channel catfish</b>	0.05		0.17	0.09	1.14	
	(0.03)		(0.12)	(0.09)	(0.78)	
<b>Tadpole madtom</b>	0.31	0.14	2.93	0.44		
	(0.12)	(0.06)	(1.36)	(0.30)		
<b>Flathead catfish</b>	0.10	0.03	0.08	0.09	0.23	0.18
	(0.06)	(0.03)	(0.08)	(0.09)	(0.15)	(0.18)
<b>Grass pickerel</b>	0.03			0.08		



	(0.03)			(0.08)		
<b>Northern pike</b>	0.02	0.06				
	(0.02)	(0.06)				
<b>Central mudminnow</b>	0.04		1.00			
	(0.03)		(0.74)			
<b>Brook silverside</b>	8.95	26.60	1.12		0.11	0.18
	(7.79)	(23.47)	(0.74)		(0.11)	(0.18)
<b>White bass</b>	0.59	0.30	0.34	1.17	0.10	0.18
	(0.34)	(0.21)	(0.19)	(0.90)	(0.10)	(0.18)
<b>Yellow bass</b>	0.01	0.03				
	(0.01)	(0.03)				
<b>Rock bass</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Pumpkinseed</b>	0.41	0.31	6.38	0.09	0.86	0.16
	(0.19)	(0.22)	(4.82)	(0.09)	(0.86)	(0.16)
<b>Warmouth</b>	0.02	0.04	0.08			
	(0.01)	(0.04)	(0.08)			
<b>Orangespotted sunfish</b>	4.45	12.75	0.77	0.44	0.79	
	(1.65)	(4.95)	(0.55)	(0.31)	(0.45)	
<b>Bluegill</b>	10.17	23.63	10.56	2.08	5.73	4.36
	(2.09)	(5.82)	(8.26)	(1.52)	(4.24)	(1.93)
<b>Green x pumpkinseed sunfish</b>	0.01	0.04				
	(0.01)	(0.04)				

<b>Largemouth bass</b>	0.03	0.07	0.17		0.34	
	(0.02)	(0.05)	(0.12)		(0.23)	
<b>White crappie</b>	0.30	0.89			0.11	
	(0.08)	(0.25)			(0.11)	
<b>Black crappie</b>	0.52	1.55			0.12	
	(0.17)	(0.52)			(0.12)	
<b>Mud darter</b>	0.07	0.07				0.18
	(0.05)	(0.05)				(0.18)
<b>Bluntnose darter</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Johnny darter</b>	0.74	0.39	0.51	0.78	0.23	1.20
	(0.25)	(0.20)	(0.36)	(0.32)	(0.15)	(0.80)
<b>Yellow perch</b>	0.01	0.03	0.09			
	(0.01)	(0.03)	(0.09)			
<b>Logperch</b>	0.22	0.30	0.51	0.27		
	(0.11)	(0.30)	(0.24)	(0.14)		
<b>River darter</b>	0.61	0.07	0.17	0.88	0.24	1.01
	(0.36)	(0.07)	(0.17)	(0.69)	(0.24)	(1.01)
<b>Sauger</b>	0.16		0.17	0.41		
	(0.08)		(0.17)	(0.23)		
<b>Freshwater drum</b>	0.28	0.04	0.09		0.32	1.05
	(0.27)	(0.04)	(0.09)		(0.22)	(1.05)

### Sampling strata:

**BWCS - Backwater, contiguous, shoreline**  
**IMPS - Impounded, shoreline**  
**MCBU - Main channel border, unstructured**  
**MCBW - Main channel border, wing dam**  
**SCB - Side channel border**

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**Table 9.3** Mean catch-per-unit-effort and (standard error) for fish collected by tandem mini fyke netting in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO	IMPO
<b>Shortnose gar</b>	0.14	0.07	0.18
	(0.08)	(0.05)	(0.12)
<b>Gizzard shad</b>	0.14	0.39	
	(0.05)	(0.13)	
<b>Spotfin shiner</b>	1.83		2.89
	(1.56)		(2.48)
<b>Common carp</b>	0.04	0.10	
	(0.03)	(0.07)	
<b>Silver chub</b>	0.76	1.47	0.35
	(0.54)	(1.33)	(0.35)
<b>Golden shiner</b>	0.12	0.33	
	(0.10)	(0.26)	
<b>Emerald shiner</b>	2.69	5.98	0.78
	(1.06)	(2.79)	(0.43)
<b>River shiner</b>	0.72	0.22	1.01
	(0.64)	(0.16)	(1.01)
<b>Spottail shiner</b>	0.22	0.61	

	(0.15)	(0.41)	
<b>Mimic shiner</b>	29.01	9.60	40.32
	(23.95)	(4.28)	(37.84)
<b>Pugnose minnow</b>	0.22	0.60	
	(0.13)	(0.34)	
<b>Fathead minnow</b>	0.01	0.04	
	(0.01)	(0.04)	
<b>Bullhead minnow</b>	7.27	3.96	9.20
	(3.26)	(1.63)	(5.07)
<b>Spotted sucker</b>	0.06		0.09
	(0.06)		(0.09)
<b>Shorthead redhorse</b>	0.06		0.09
	(0.06)		(0.09)
<b>Channel catfish</b>	0.06		0.09
	(0.06)		(0.09)
<b>Tadpole madtom</b>	1.91	0.17	2.93
	(0.94)	(0.17)	(1.49)
<b>Brook silverside</b>	0.10	0.10	0.09
	(0.06)	(0.08)	(0.09)
<b>Rock bass</b>	0.06		0.09
	(0.06)		(0.09)
<b>Pumpkinseed</b>	2.23	1.09	2.89
	(1.65)	(0.75)	(2.58)
<b>Warmouth</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Orangespotted sunfish</b>	0.86	1.55	0.46
	(0.30)	(0.53)	(0.36)
<b>Bluegill</b>	21.94	55.60	2.33
	(9.44)	(25.47)	(1.82)
<b>Pumpkinseed x orangespotted sunfish</b>	0.01	0.03	

	(0.01)	(0.03)	
<b>Largemouth bass</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>White crappie</b>	0.56	1.51	
	(0.31)	(0.83)	
<b>Black crappie</b>	0.59	1.61	
	(0.44)	(1.20)	
<b>Johnny darter</b>	0.06	0.17	
	(0.03)	(0.08)	
<b>Yellow perch</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Logperch</b>	0.06		0.09
	(0.06)		(0.09)
<b>River darter</b>	0.42	0.07	0.63
	(0.40)	(0.05)	(0.63)
<b>Sauger</b>	0.07	0.04	0.09
	(0.06)	(0.04)	(0.09)
<b>Freshwater drum</b>	0.54	1.30	0.09
	(0.44)	(1.19)	(0.09)

**Sampling strata:****BWCO - Backwater, contiguous, offshore****IMPO - Impounded, offshore***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_13/tb3\\_\\_ia0008.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_13/tb3__ia0008.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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**Table 10.3** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	IMPO	MCBU	MCBW	SCB
<b>Common carp</b>	0.06	0.09	0.04		
	(0.05)	(0.09)	(0.04)		
<b>Silver chub</b>	0.05	0.09			
	(0.05)	(0.09)			
<b>Smallmouth buffalo</b>	0.03		0.04	0.39	0.12
	(0.02)		(0.04)	(0.29)	(0.12)
<b>Shorthead redhorse</b>	0.07	0.08		0.06	0.12
	(0.05)	(0.08)		(0.06)	(0.08)
<b>Channel catfish</b>	0.74	0.17	1.78	1.36	1.07
	(0.31)	(0.17)	(1.10)	(0.75)	(0.48)
<b>Flathead catfish</b>	0.04		0.09	0.06	0.12
	(0.02)		(0.06)	(0.06)	(0.06)
<b>Pumpkinseed</b>	0.06	0.08			0.05
	(0.05)	(0.08)			(0.03)
<b>Bluegill</b>	0.21			2.51	1.14
	(0.08)			(2.39)	(0.44)
<b>White crappie</b>	0.01				0.05

	(0.01)				(0.05)
<b>Black crappie</b>	0.01			0.89	0.05
	(0.01)			(0.89)	(0.03)
<b>Sauger</b>	0.05	0.09			0.02
	(0.05)	(0.09)			(0.02)
<b>Walleye</b>	0.00				0.02
	(0.00)				(0.02)
<b>Freshwater drum</b>	0.01			0.50	0.07
	(0.01)			(0.29)	(0.05)

**Sampling strata:****IMPO - Impounded, offshore****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_13/tb3\\_\\_ia0009.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_13/tb3__ia0009.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶



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**Table 11.3** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	IMPO	MCBU	MCBW	SCB
<b>Common carp</b>	0.01				0.07
	(0.01)				(0.04)
<b>River carpsucker</b>	0.02		0.08		
	(0.02)		(0.08)		
<b>Smallmouth buffalo</b>	1.13	0.08	2.90	1.41	2.02
	(0.32)	(0.08)	(1.13)	(0.50)	(0.85)
<b>Shorthead redhorse</b>	0.08	0.08			0.20
	(0.05)	(0.08)			(0.15)
<b>Channel catfish</b>	0.10		0.35		0.10
	(0.05)		(0.21)		(0.06)
<b>Flathead catfish</b>	0.03		0.09	0.06	0.07
	(0.02)		(0.06)	(0.06)	(0.05)
<b>Northern pike</b>	0.05	0.09			0.02
	(0.05)	(0.09)			(0.02)
<b>White bass</b>	0.05		0.13		0.10
	(0.02)		(0.07)		(0.06)
<b>Bluegill</b>	0.01			0.34	0.07

	(0.01)			(0.28)	(0.05)
<b>White crappie</b>	0.00				0.02
	(0.00)				(0.02)
<b>Black crappie</b>	0.02			0.34	0.10
	(0.01)			(0.34)	(0.04)
<b>Freshwater drum</b>	0.12		0.09	0.68	0.58
	(0.03)		(0.06)	(0.23)	(0.15)

**Sampling strata:****IMPO - Impounded, offshore****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_13/tb3\\_\\_ia0010.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_13/tb3__ia0010.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 12.3** Mean catch-per-unit-effort and (standard error) for fish collected by seining in Pool 13 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.3](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	MCBU	SCB
<b>Longnose gar</b>	0.03	0.03			0.08
	(0.02)	(0.03)			(0.08)
<b>Shortnose gar</b>	0.08	0.08	0.21		0.17
	(0.05)	(0.05)	(0.17)		(0.17)
<b>Bowfin</b>	0.02	0.06			
	(0.02)	(0.06)			
<b>Mooneye</b>	0.00		0.04		
	(0.00)		(0.04)		
<b>Gizzard shad</b>	1.97	2.94	0.29	1.75	1.25
	(0.62)	(1.56)	(0.29)	(0.74)	(0.82)
<b>Spotfin shiner</b>	0.60	0.42	2.00	0.42	0.92
	(0.15)	(0.19)	(0.72)	(0.15)	(0.45)
<b>Common carp</b>	0.04	0.06	0.50		
	(0.02)	(0.04)	(0.26)		
<b>Mississippi silvery minnow</b>	0.01			0.03	
	(0.01)			(0.03)	
<b>Silver chub</b>	0.59	0.67	1.33	0.17	1.00

	(0.18)	(0.23)	(1.25)	(0.07)	(0.59)
<b>Golden shiner</b>	0.15	0.06	0.04	0.06	0.42
	(0.11)	(0.04)	(0.04)	(0.04)	(0.42)
<b>Emerald shiner</b>	51.49	50.28	19.71	60.81	43.83
	(12.18)	(27.07)	(12.92)	(16.43)	(21.13)
<b>River shiner</b>	45.46	39.53	121.75	50.47	35.33
	(9.62)	(9.94)	(48.08)	(21.33)	(15.49)
<b>Spottail shiner</b>	0.40	0.28	6.50	0.08	0.17
	(0.19)	(0.18)	(5.02)	(0.05)	(0.11)
<b>Mimic shiner</b>	30.89	23.53	13.21	22.36	55.50
	(6.05)	(9.77)	(4.35)	(6.78)	(17.34)
<b>Pugnose minnow</b>	0.12	0.28	0.04		0.08
	(0.05)	(0.15)	(0.04)		(0.08)
<b>Suckermouth minnow</b>	0.00		0.04		
	(0.00)		(0.04)		
<b>Bluntnose minnow</b>	0.01		0.04	0.03	
	(0.01)		(0.04)	(0.03)	
<b>Fathead minnow</b>	0.04		0.04		0.17
	(0.04)		(0.04)		(0.17)
<b>Bullhead minnow</b>	4.81	9.47	8.38	0.39	4.67
	(1.49)	(4.28)	(2.99)	(0.10)	(1.60)
<b>River carpsucker</b>	0.10	0.17	0.04	0.11	
	(0.04)	(0.09)	(0.04)	(0.07)	
<b>Unidentified buffalo</b>	0.05	0.11	0.42		
	(0.03)	(0.09)	(0.29)		
<b>Unidentified redhorse</b>	0.05	0.03	0.08	0.11	
	(0.03)	(0.03)	(0.08)	(0.07)	
<b>Yellow bullhead</b>	0.00		0.04		
	(0.00)		(0.04)		
<b>Channel catfish</b>	0.19	0.08	0.58	0.08	0.42

	(0.11)	(0.06)	(0.41)	(0.05)	(0.42)
<b>Tadpole madtom</b>	0.06	0.06	0.46		0.08
	(0.03)	(0.04)	(0.20)		(0.08)
<b>Northern pike</b>	0.00		0.04		
	(0.00)		(0.04)		
<b>Central mudminnow</b>	0.01		0.25		
	(0.01)		(0.18)		
<b>Brook silverside</b>	8.07	21.33	3.54	1.14	1.42
	(3.13)	(9.34)	(2.58)	(0.31)	(0.66)
<b>White bass</b>	0.52	0.19	0.13	0.64	0.83
	(0.13)	(0.07)	(0.07)	(0.18)	(0.41)
<b>Rock bass</b>	0.00		0.04		
	(0.00)		(0.04)		
<b>Pumpkinseed</b>	0.10	0.08	2.13		
	(0.05)	(0.05)	(1.35)		
<b>Warmouth</b>	0.01	0.03			
	(0.01)	(0.03)			
<b>Orangespotted sunfish</b>	0.78	1.50	0.04		1.08
	(0.26)	(0.46)	(0.04)		(0.83)
<b>Bluegill</b>	12.53	31.47	3.33	0.25	6.92
	(3.77)	(10.95)	(1.46)	(0.18)	(3.65)
<b>Smallmouth bass</b>	0.01		0.08	0.03	
	(0.01)		(0.06)	(0.03)	
<b>Largemouth bass</b>	0.82	2.28	0.25		0.17
	(0.40)	(1.19)	(0.12)		(0.11)
<b>White crappie</b>	0.09	0.19			0.08
	(0.04)	(0.10)			(0.08)
<b>Black crappie</b>	0.07	0.22			
	(0.04)	(0.13)			
<b>Western sand darter</b>	0.22	0.17		0.44	

	(0.10)	(0.14)		(0.24)	
<b>Mud darter</b>	0.01	0.03	0.04		
	(0.01)	(0.03)	(0.04)		
<b>Bluntnose darter</b>	0.01	0.03			
	(0.01)	(0.03)			
<b>Johnny darter</b>	1.00	1.08	0.13	0.22	2.17
	(0.29)	(0.38)	(0.07)	(0.11)	(1.01)
<b>Yellow perch</b>	0.00		0.08		
	(0.00)		(0.06)		
<b>Logperch</b>	0.05	0.08	0.67		
	(0.03)	(0.05)	(0.62)		
<b>Slenderhead darter</b>	0.01	0.03			
	(0.01)	(0.03)			
<b>River darter</b>	0.19	0.03	0.13	0.19	0.42
	(0.10)	(0.03)	(0.07)	(0.14)	(0.34)
<b>Sauger</b>	0.06	0.06		0.06	0.08
	(0.03)	(0.04)		(0.04)	(0.08)
<b>Walleye</b>	0.09	0.03		0.11	0.17
	(0.04)	(0.03)		(0.09)	(0.11)
<b>Freshwater drum</b>	0.31	0.53	0.08	0.22	0.17
	(0.07)	(0.15)	(0.06)	(0.10)	(0.11)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline****MCBU - Main channel border, unstructured****SCB - Side channel border**

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**Table 15.3** Mean catch-per-unit-effort and (standard error) for fish collected by night electrofishing in Pool 13 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Silver lamprey	0.17
	(0.17)
Longnose gar	0.83
	(0.54)
Shortnose gar	1.00
	(0.63)
Bowfin	0.33
	(0.21)
Gizzard shad	776.67
	(742.59)
Spotfin shiner	1.00
	(0.68)
Common carp	2.67
	(0.67)
Speckled chub	0.17
	(0.17)
Silver chub	0.50
	(0.50)



<b>Golden shiner</b>	0.83
	(0.83)
<b>Emerald shiner</b>	208.67
	(184.81)
<b>River shiner</b>	6.50
	(5.33)
<b>Spottail shiner</b>	0.33
	(0.33)
<b>Sand shiner</b>	0.17
	(0.17)
<b>Mimic shiner</b>	140.17
	(130.39)
<b>Fathead minnow</b>	0.17
	(0.17)
<b>Bullhead minnow</b>	0.50
	(0.34)
<b>Smallmouth buffalo</b>	0.50
	(0.34)
<b>Golden redhorse</b>	0.17
	(0.17)
<b>Shorthead redhorse</b>	1.17
	(0.60)
<b>Channel catfish</b>	0.17
	(0.17)
<b>Flathead catfish</b>	0.33
	(0.21)
<b>Northern pike</b>	0.33
	(0.21)
<b>Brook silverside</b>	7.33
	(5.84)

<b>White bass</b>	28.00
	(6.43)
<b>Yellow bass</b>	0.33
	(0.33)
<b>Rock bass</b>	1.00
	(0.82)
<b>Green sunfish</b>	0.17
	(0.17)
<b>Pumpkinseed</b>	1.17
	(0.40)
<b>Warmouth</b>	0.50
	(0.34)
<b>Orangespotted sunfish</b>	3.17
	(0.95)
<b>Bluegill</b>	17.50
	(7.58)
<b>Green x pumpkinseed sunfish</b>	0.33
	(0.33)
<b>Smallmouth bass</b>	7.33
	(2.91)
<b>Largemouth bass</b>	19.83
	(2.34)
<b>White crappie</b>	0.33
	(0.21)
<b>Black crappie</b>	0.67
	(0.33)
<b>Yellow perch</b>	0.17
	(0.17)
<b>Logperch</b>	0.50
	(0.22)

<b>River darter</b>	0.17
	(0.17)
<b>Sauger</b>	22.67
	(8.27)
<b>Walleye</b>	13.50
	(4.77)
<b>Freshwater drum</b>	15.00
	(8.81)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 17.3** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Pool 13 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Shortnose gar	0.17
	(0.17)
Bowfin	0.17
	(0.17)
Mooneye	0.17
	(0.17)
Gizzard shad	0.34
	(0.21)
Spotfin shiner	0.84
	(0.65)
Speckled chub	3.09
	(2.50)
Silver chub	0.17
	(0.17)
Golden shiner	1.03
	(1.03)
Emerald shiner	160.40
	(113.81)

<b>River shiner</b>	15.87
	(11.27)
<b>Mimic shiner</b>	117.36
	(84.91)
<b>Channel shiner</b>	0.17
	(0.17)
<b>Pugnose minnow</b>	1.89
	(1.89)
<b>Bullhead minnow</b>	7.69
	(5.63)
<b>Flathead catfish</b>	0.17
	(0.17)
<b>White bass</b>	2.36
	(1.00)
<b>Green sunfish</b>	0.17
	(0.17)
<b>Orangespotted sunfish</b>	0.34
	(0.21)
<b>Bluegill</b>	0.34
	(0.21)
<b>Black crappie</b>	0.17
	(0.17)
<b>Mud darter</b>	0.16
	(0.16)
<b>Johnny darter</b>	0.17
	(0.17)
<b>River darter</b>	0.17
	(0.17)
<b>Sauger</b>	0.17
	(0.17)

Freshwater drum	0.50
	(0.50)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 18.3** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Pool 13 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Common carp	0.50
	(0.22)
Smallmouth buffalo	1.58
	(1.39)
Channel catfish	0.59
	(0.24)
Flathead catfish	0.08
	(0.08)
White bass	0.08
	(0.08)

**Sampling stratum:**  
**TWZ - Tailwater**

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**Table 19.3** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Pool 13 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Shovelnose sturgeon	0.08
	(0.08)
Common carp	0.17
	(0.17)
Smallmouth buffalo	3.79
	(1.50)
Shorthead redhorse	0.09
	(0.09)
Channel catfish	0.34
	(0.25)
Flathead catfish	0.09
	(0.09)
White crappie	0.09
	(0.09)
Freshwater drum	1.01
	(0.57)

**Sampling stratum:**  
**TWZ - Tailwater**

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**Table 21.3** Mean catch-per-unit-effort and (standard error) for fish collected by bottom trawling in Pool 13 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Shovelnose sturgeon	2.08
	(0.54)
Gizzard shad	0.04
	(0.04)
Speckled chub	2.08
	(0.67)
Silver chub	0.13
	(0.09)
Emerald shiner	0.04
	(0.04)
Mimic shiner	0.04
	(0.04)
Golden redhorse	0.04
	(0.04)
Shorthead redhorse	0.04
	(0.04)
Channel catfish	3.04
	(0.63)

<b>Stonecat</b>	0.29
	(0.11)
<b>Flathead catfish</b>	0.21
	(0.10)
<b>River darter</b>	0.04
	(0.04)
<b>Sauger</b>	0.08
	(0.06)
<b>Walleye</b>	0.04
	(0.04)
<b>Freshwater drum</b>	3.58
	(1.31)

**Sampling stratum:  
TWZ - Tailwater**

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## Pool 13 Length Distributions

Length distributions (length) as a percentage of catch (percent) for selected species of interest collected by the Long Term Resource Monitoring Program. Fish species are listed in phylogenetical order following Robins et al. (1991) nomenclature. In some instances, meaningful biological interpretation of these distributions may be limited by small sample size or size selectivity of the gear (Anderson and Neumann 1996). Some fish histograms with small sample sizes (<100) are included because of local interest, while others were omitted (reach dependent). Scientific names for the species listed can be found in [Table 1](#).

Figure*	<a href="#">Species</a>	<a href="#">Method</a>
<a href="#">2.3</a>	Gizzard shad	Electrofishing
<a href="#">3.3</a>	Common carp	Electrofishing
<a href="#">4.3</a>	Smallmouth buffalo	Electrofishing
<a href="#">5.3</a>	Smallmouth buffalo	Hoop netting
<a href="#">6.3</a>	Channel catfish	Electrofishing
<a href="#">7.3</a>	Channel catfish	Hoop netting
<a href="#">8.3</a>	Northern pike	Electrofishing
<a href="#">9.3</a>	Northern pike	Fyke netting
<a href="#">10.3</a>	White bass	Electrofishing
<a href="#">11.3</a>	Bluegill	Electrofishing
<a href="#">12.3</a>	Bluegill	Fyke netting
<a href="#">13.3</a>	Largemouth bass	Electrofishing
<a href="#">14.3</a>	White crappie	Fyke netting
<a href="#">15.3</a>	Black crappie	Fyke netting

<a href="#">16.3</a>	Sauger	Electrofishing
<a href="#">17.3</a>	Walleye	Electrofishing
<a href="#">18.3</a>	Freshwater drum	Electrofishing
<a href="#">19.3</a>	Freshwater drum	Fyke netting
<p>*Figure numbers are not always in sequence because some species were not caught in some study areas. Figure numbers for each species and gear type are consistent among study areas.</p>		

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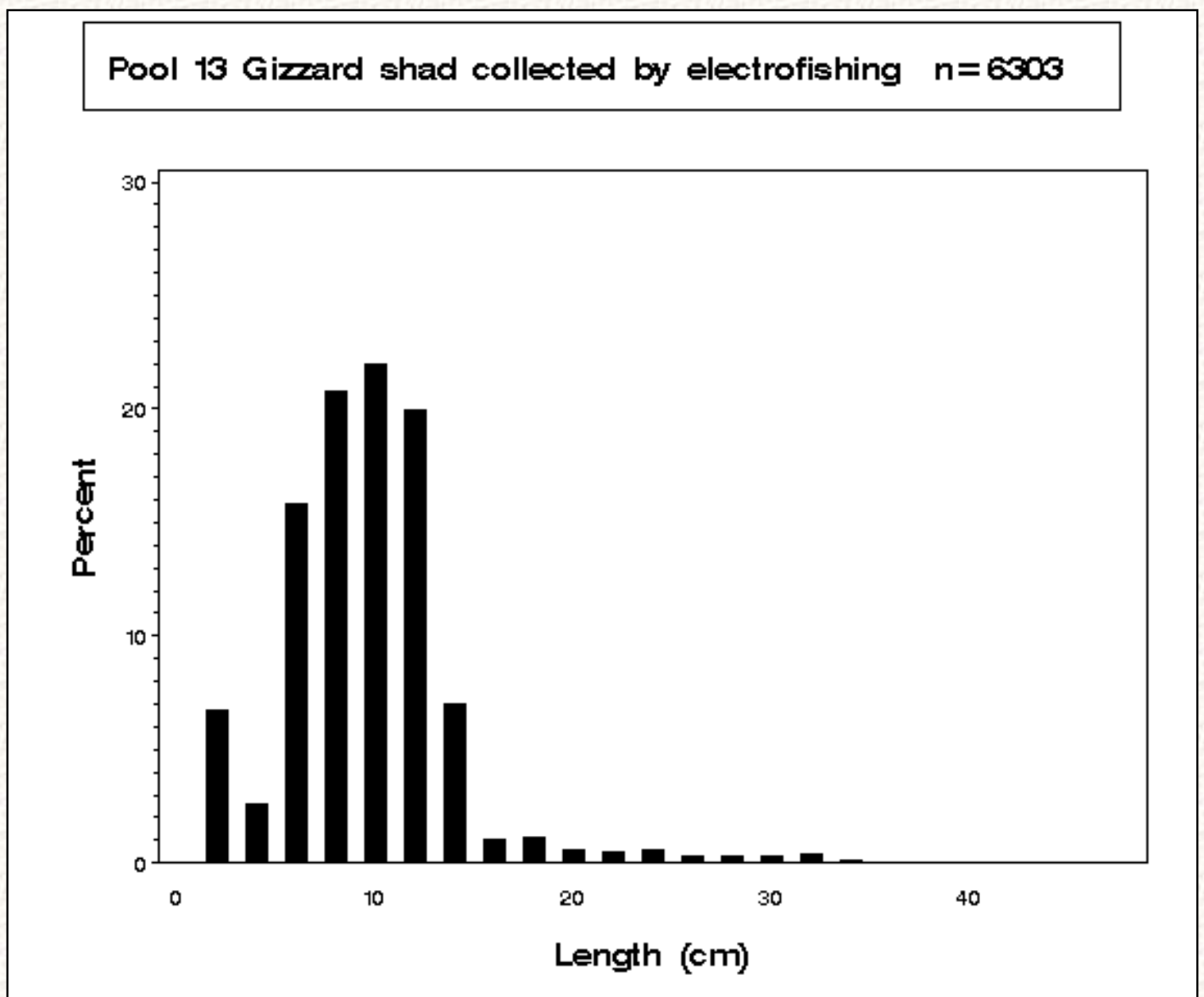
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**Figure 2.3** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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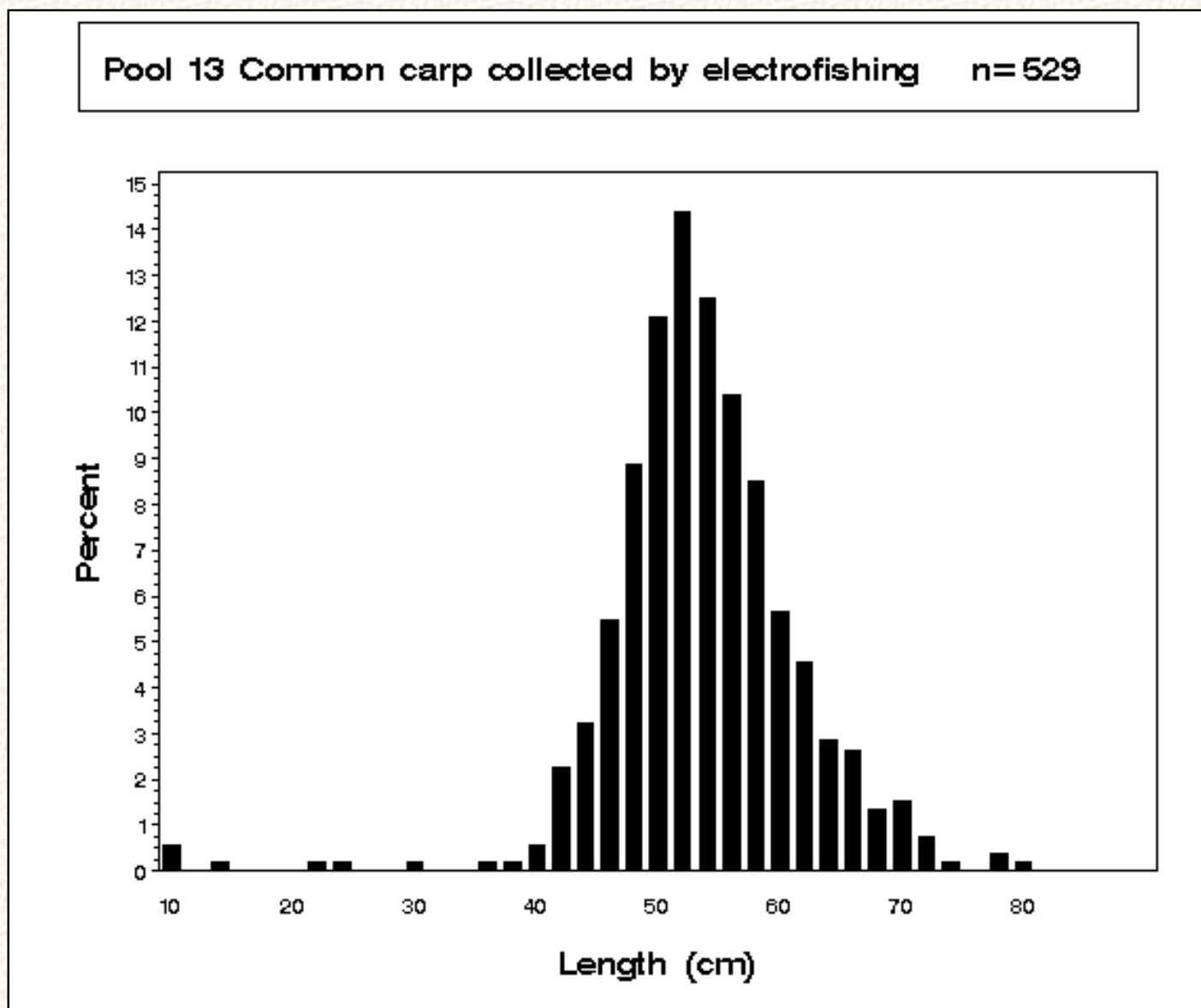
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**Figure 3.3** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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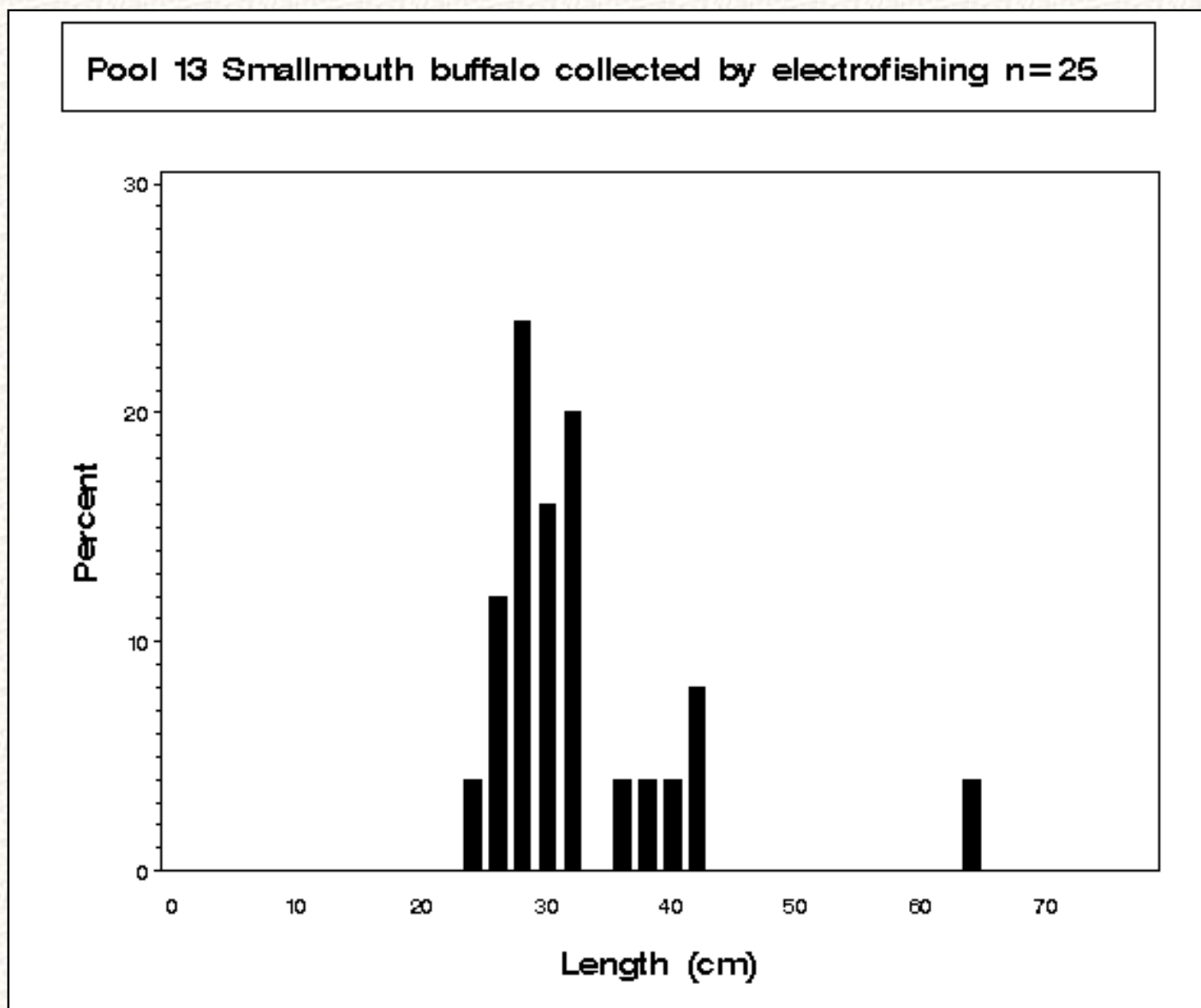
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**Figure 4.3** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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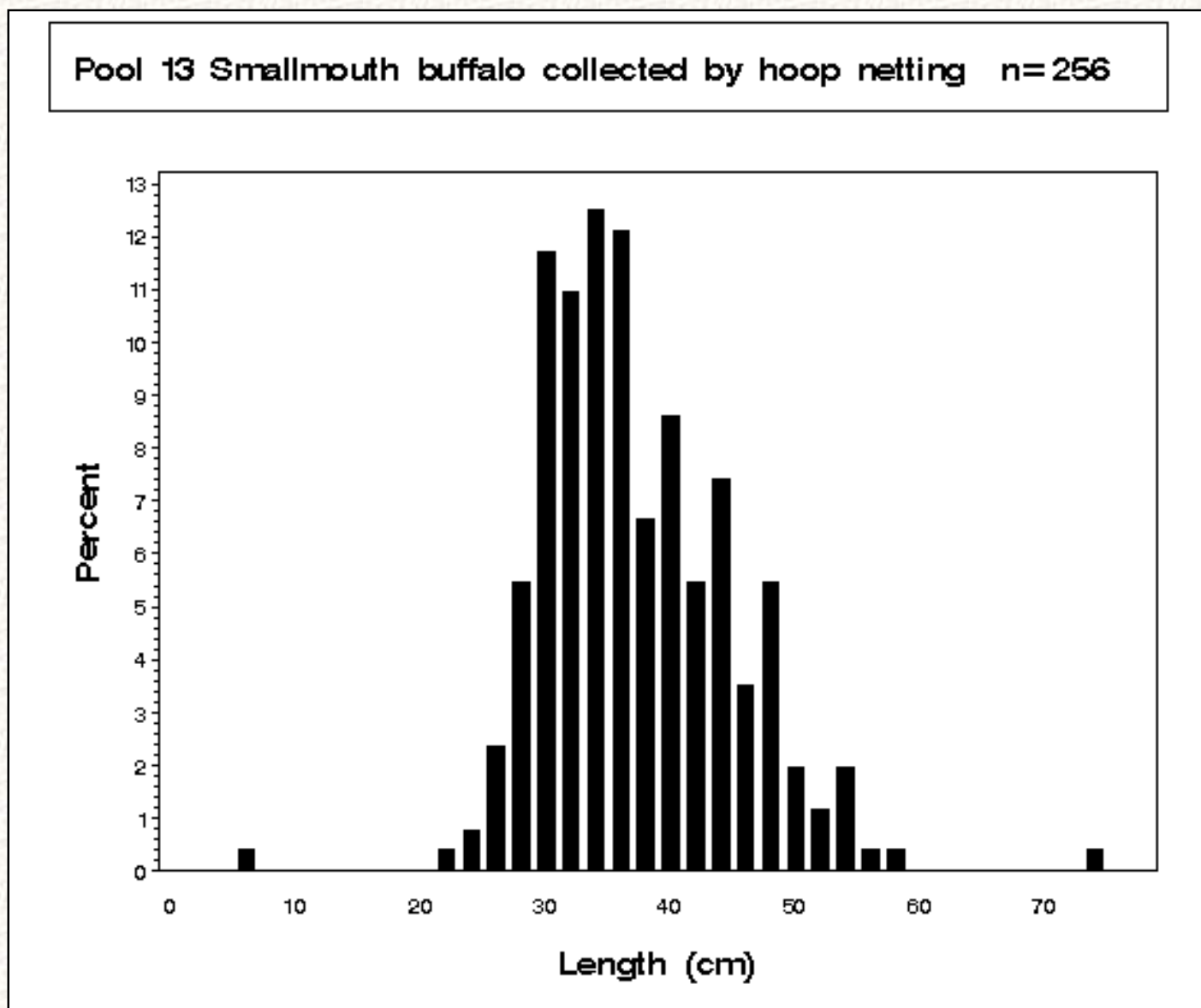
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**Figure 5.3** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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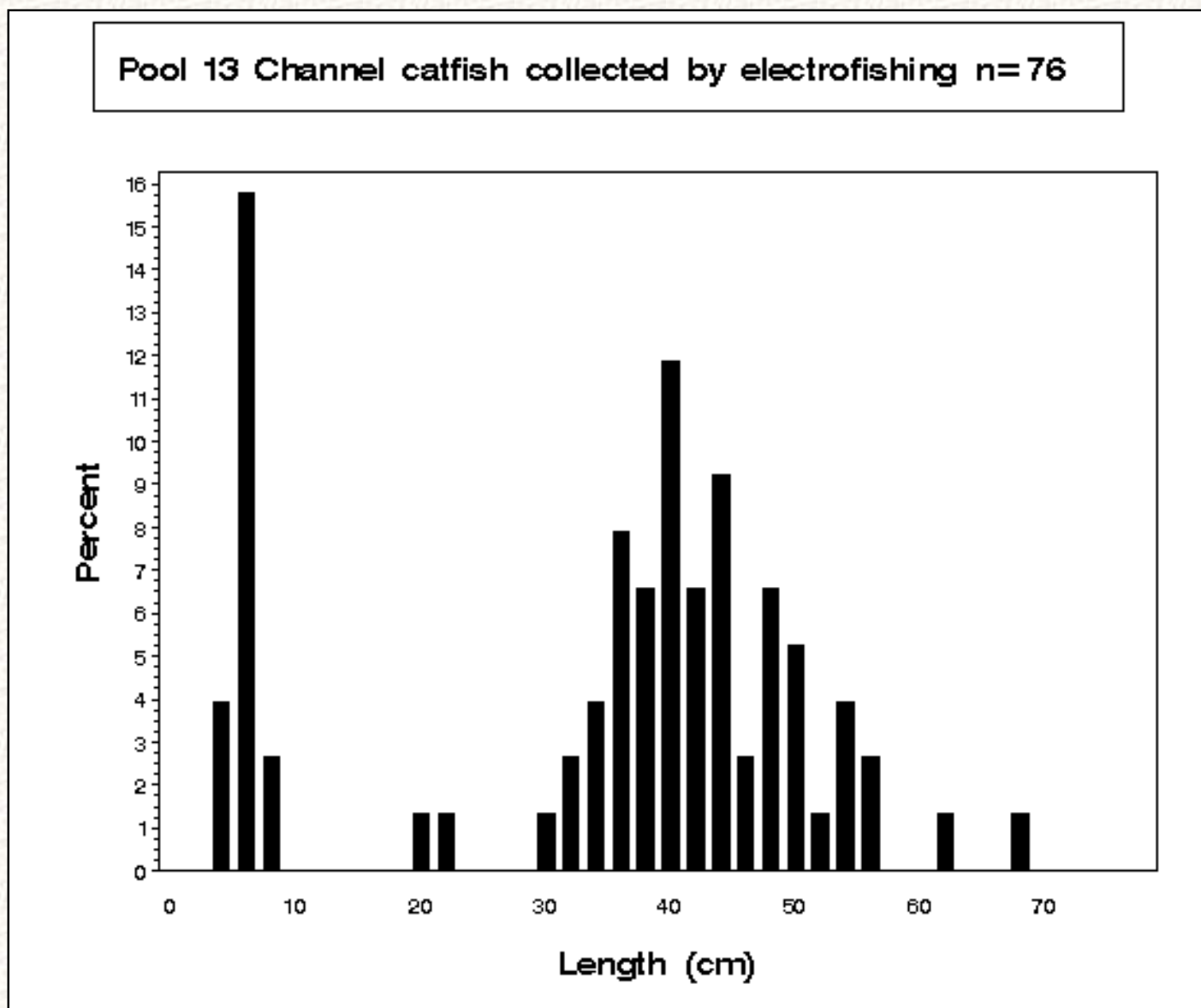
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**Figure 6.3** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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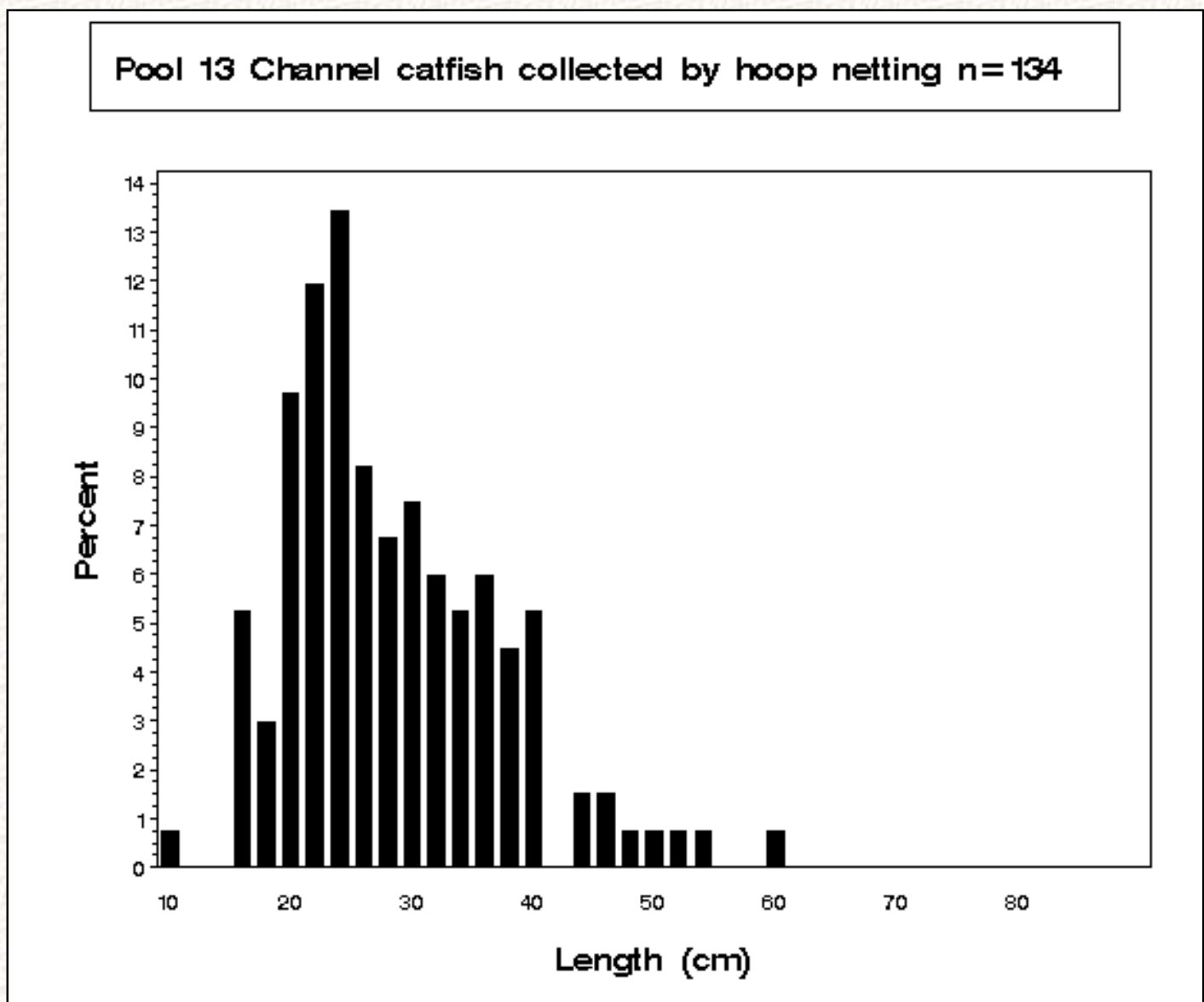
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**Figure 7.3** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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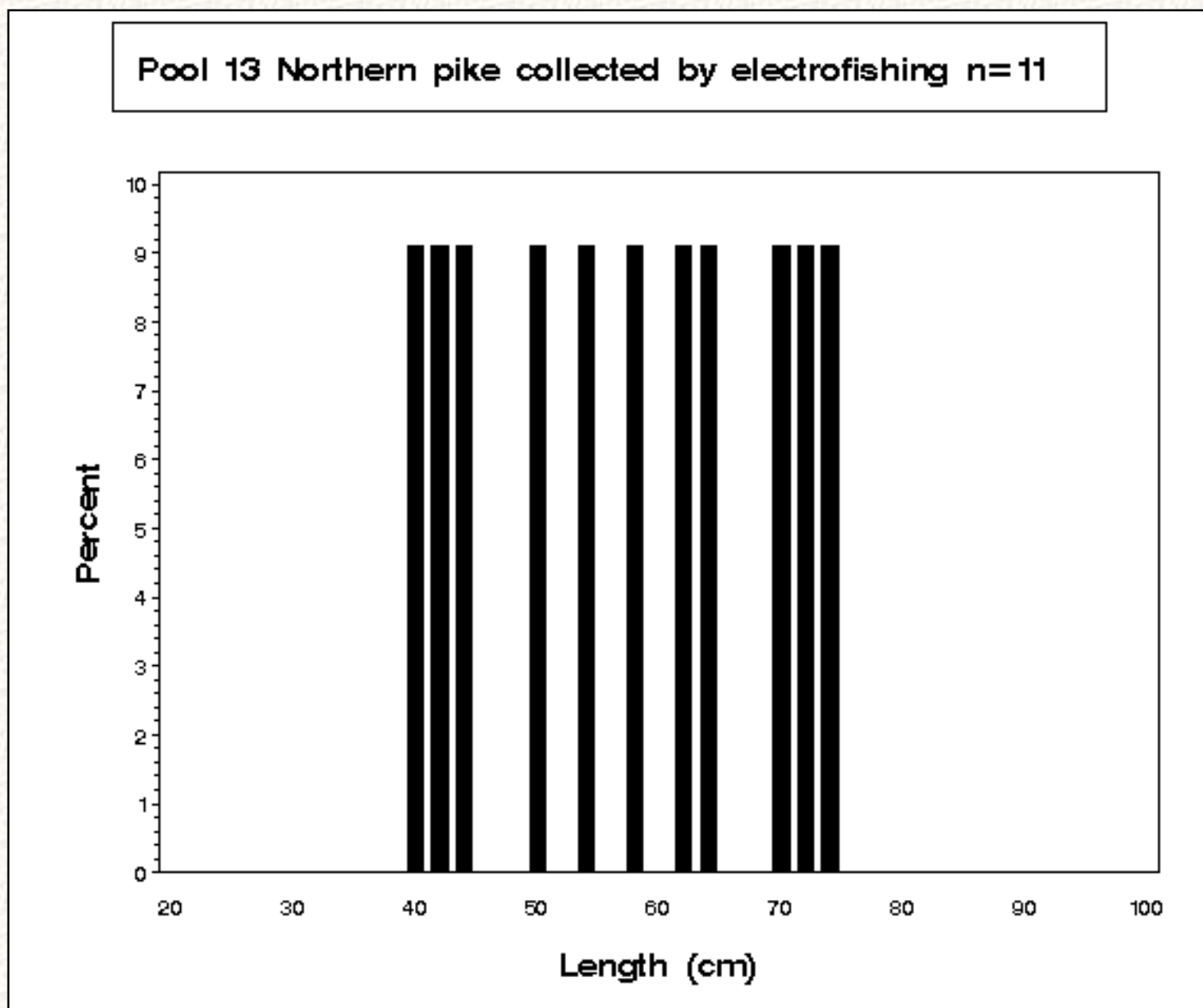
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**Figure 8.3** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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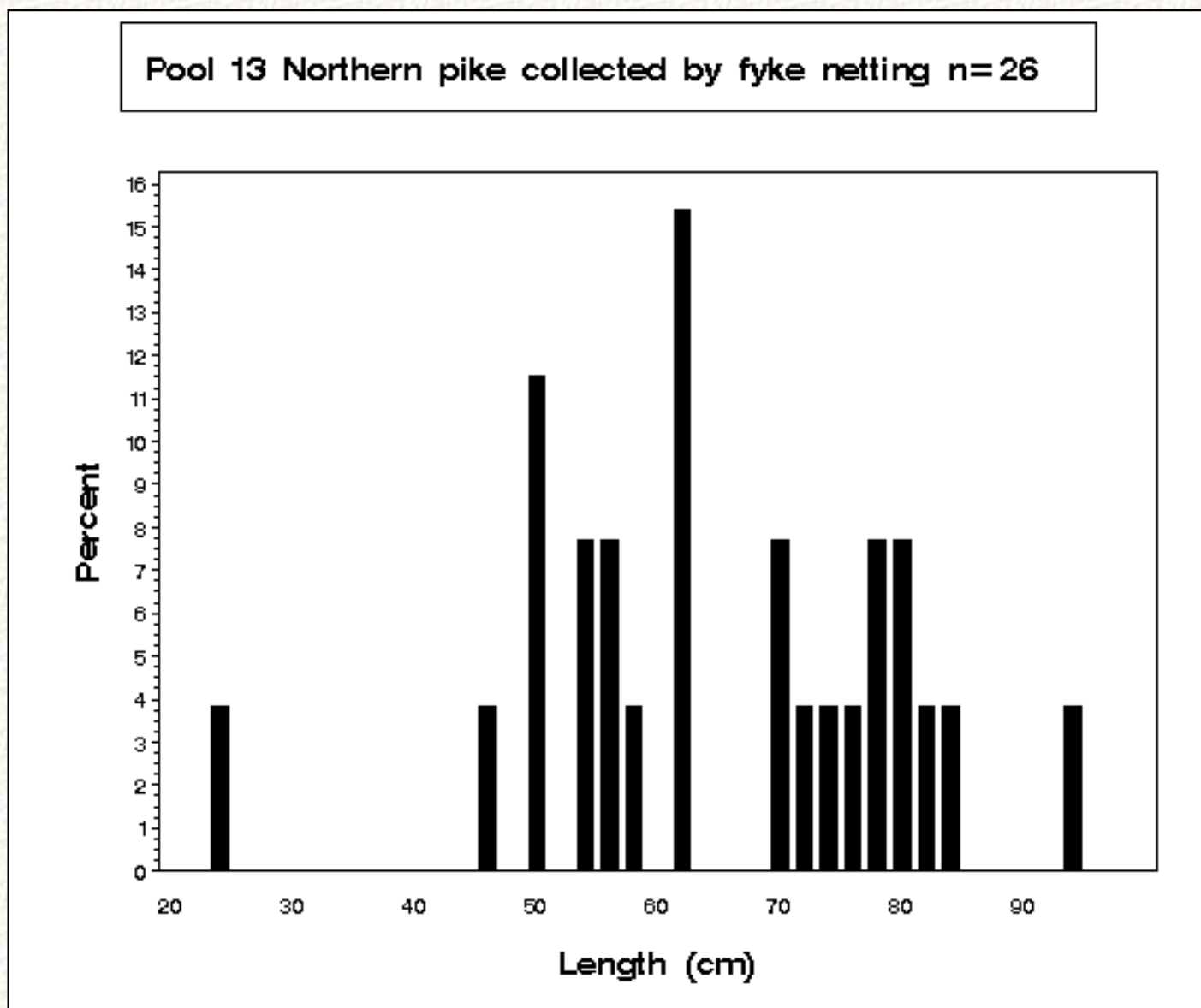


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**Figure 9.3** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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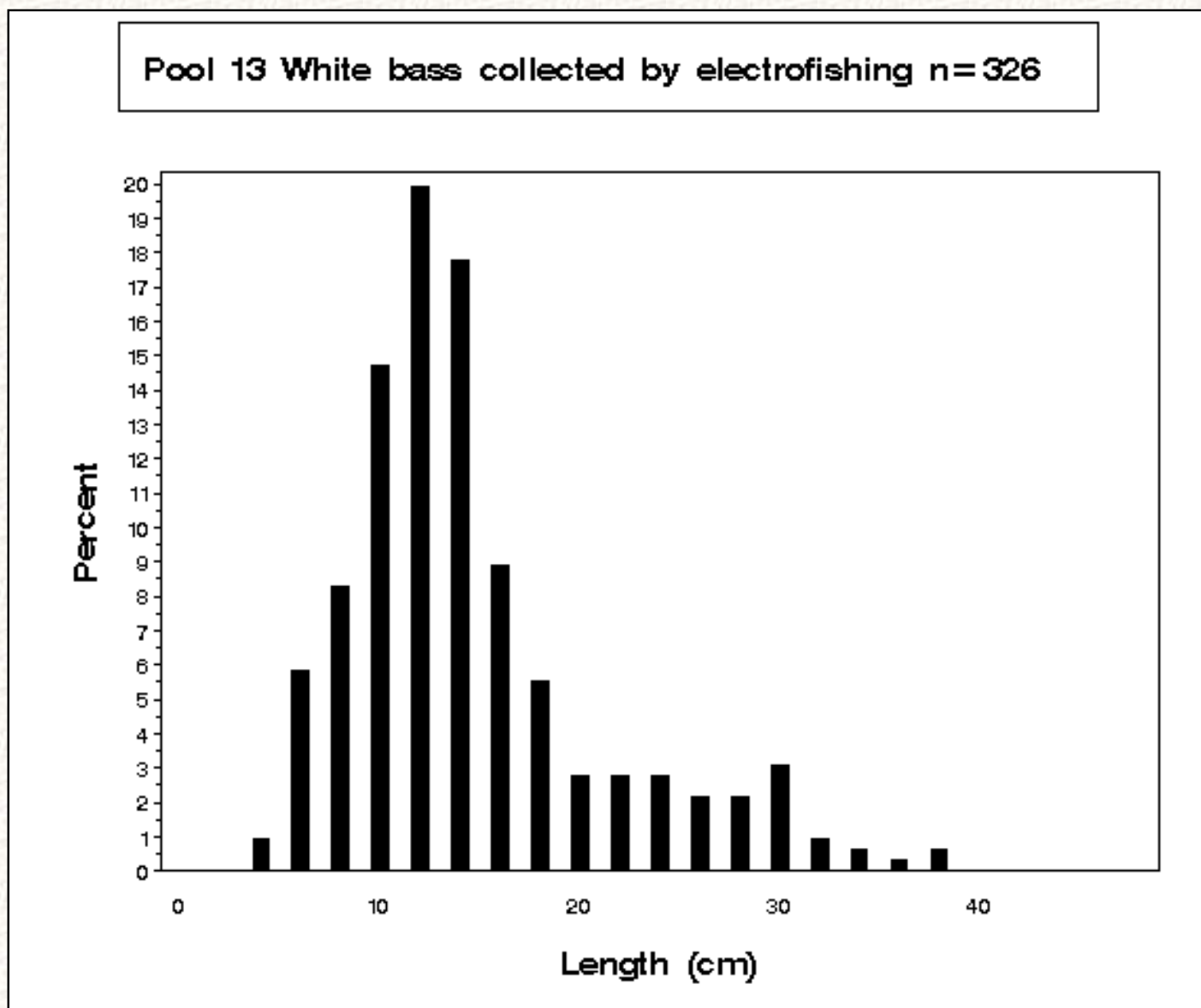
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**Figure 10.3** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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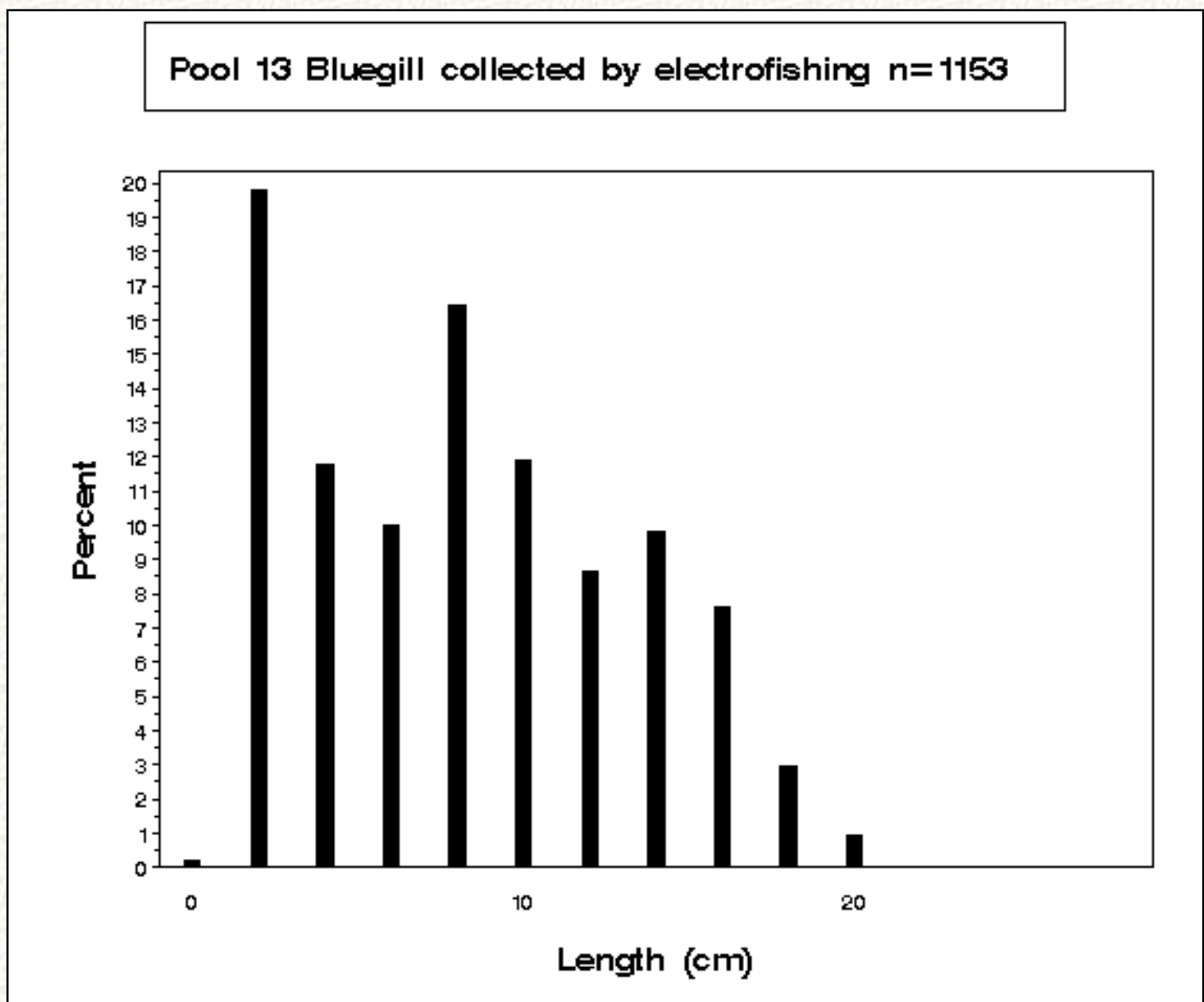
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**Figure 11.3** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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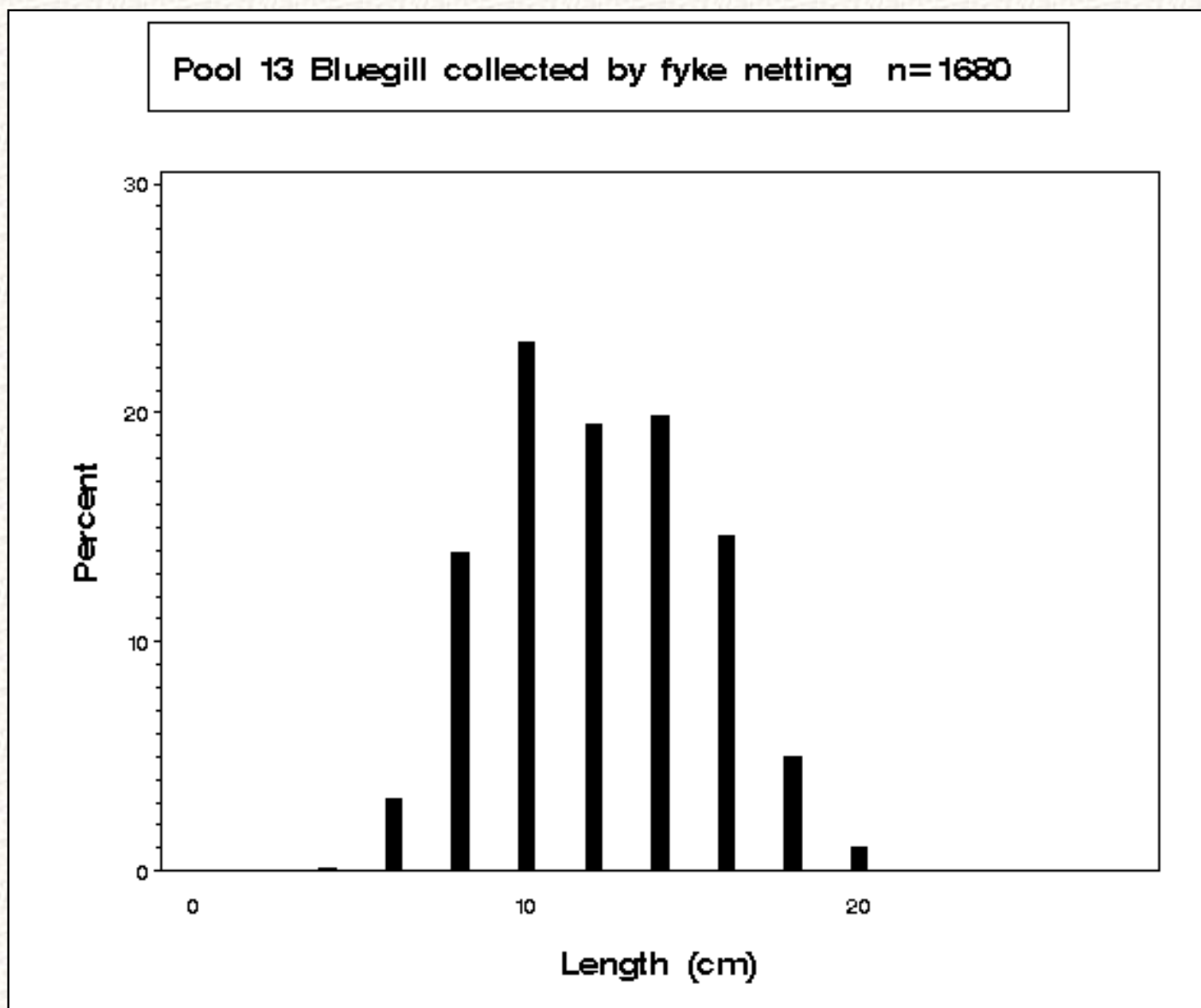
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**Figure 12.3** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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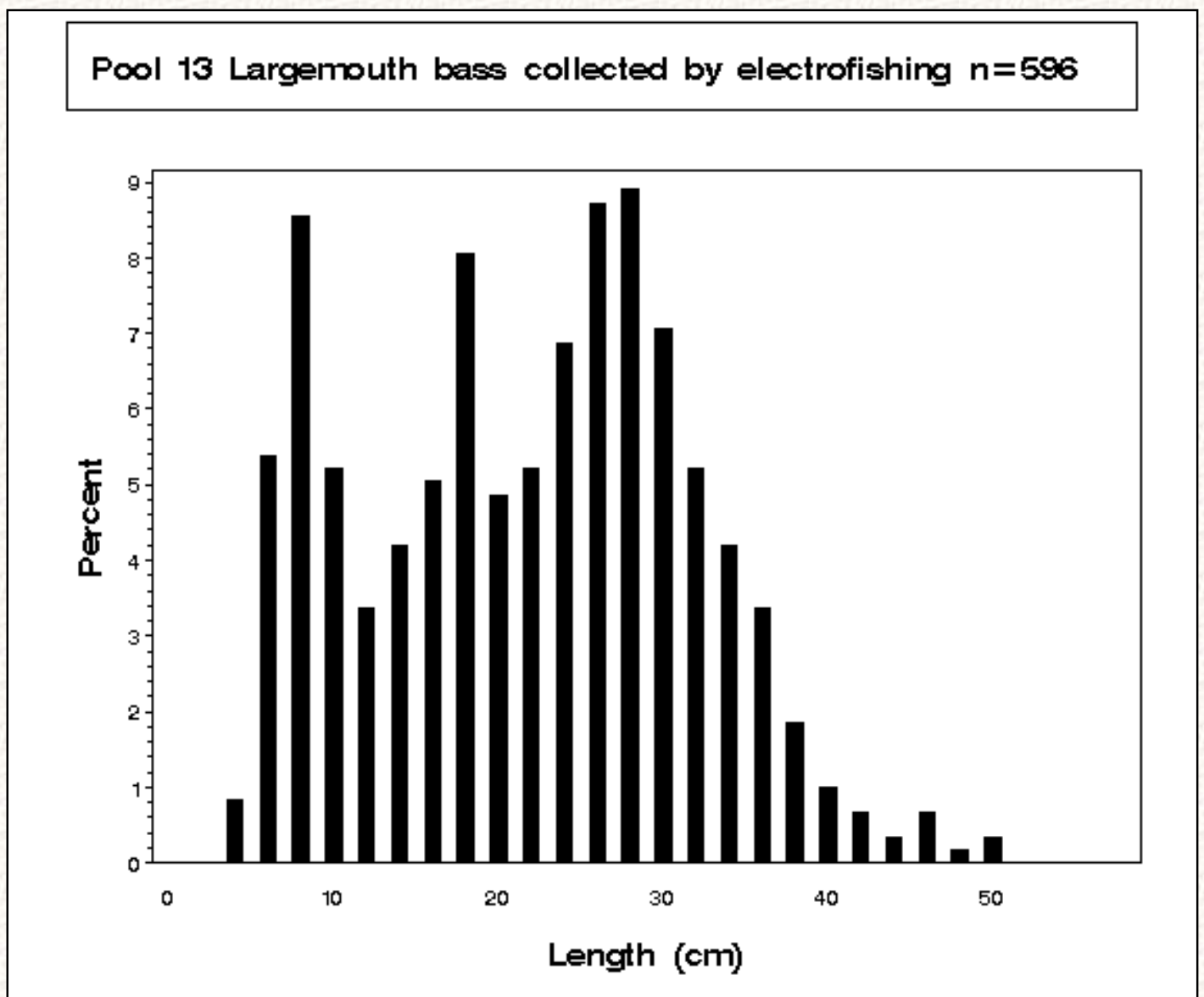
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**Figure 13.3** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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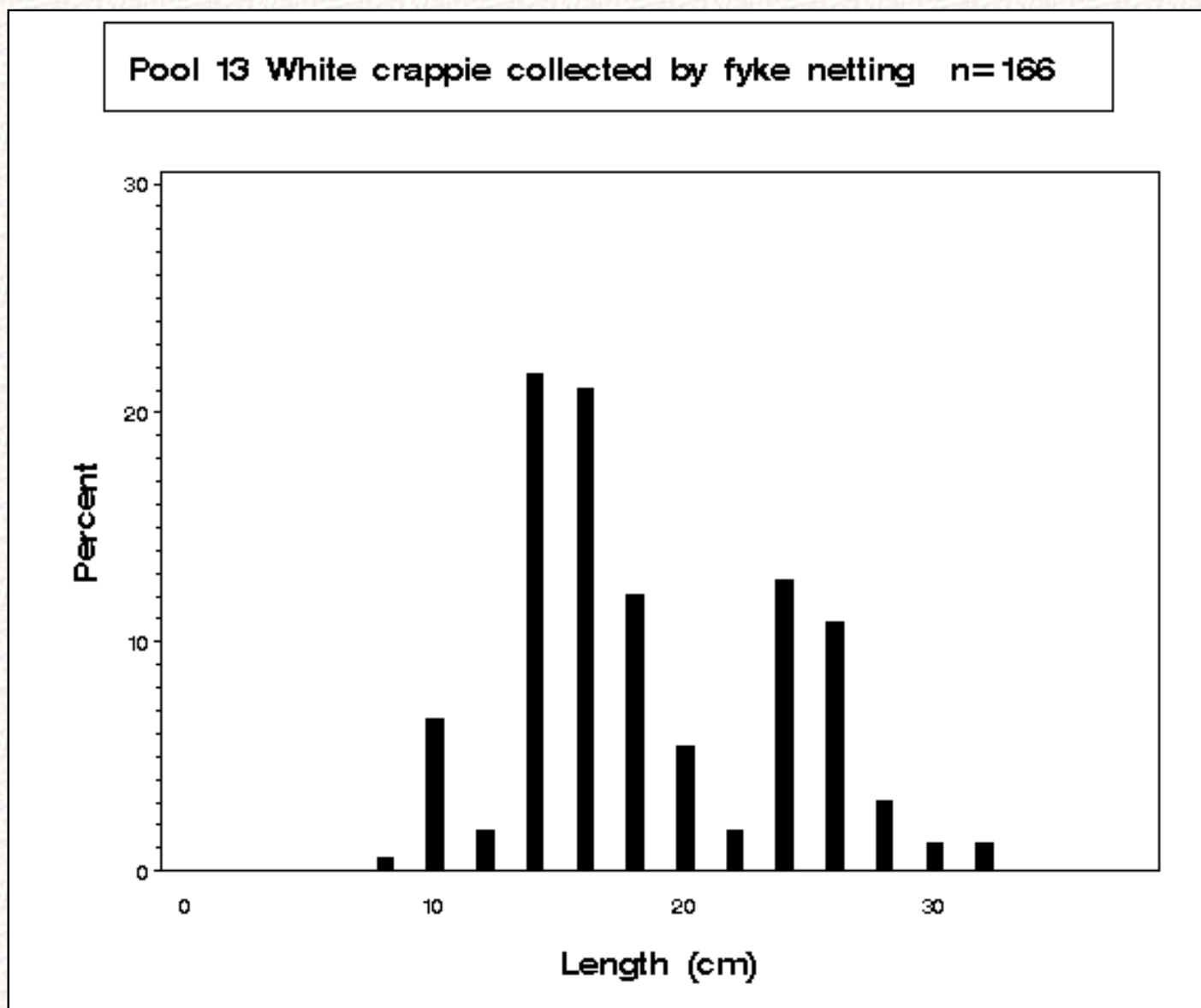
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**Figure 14.3** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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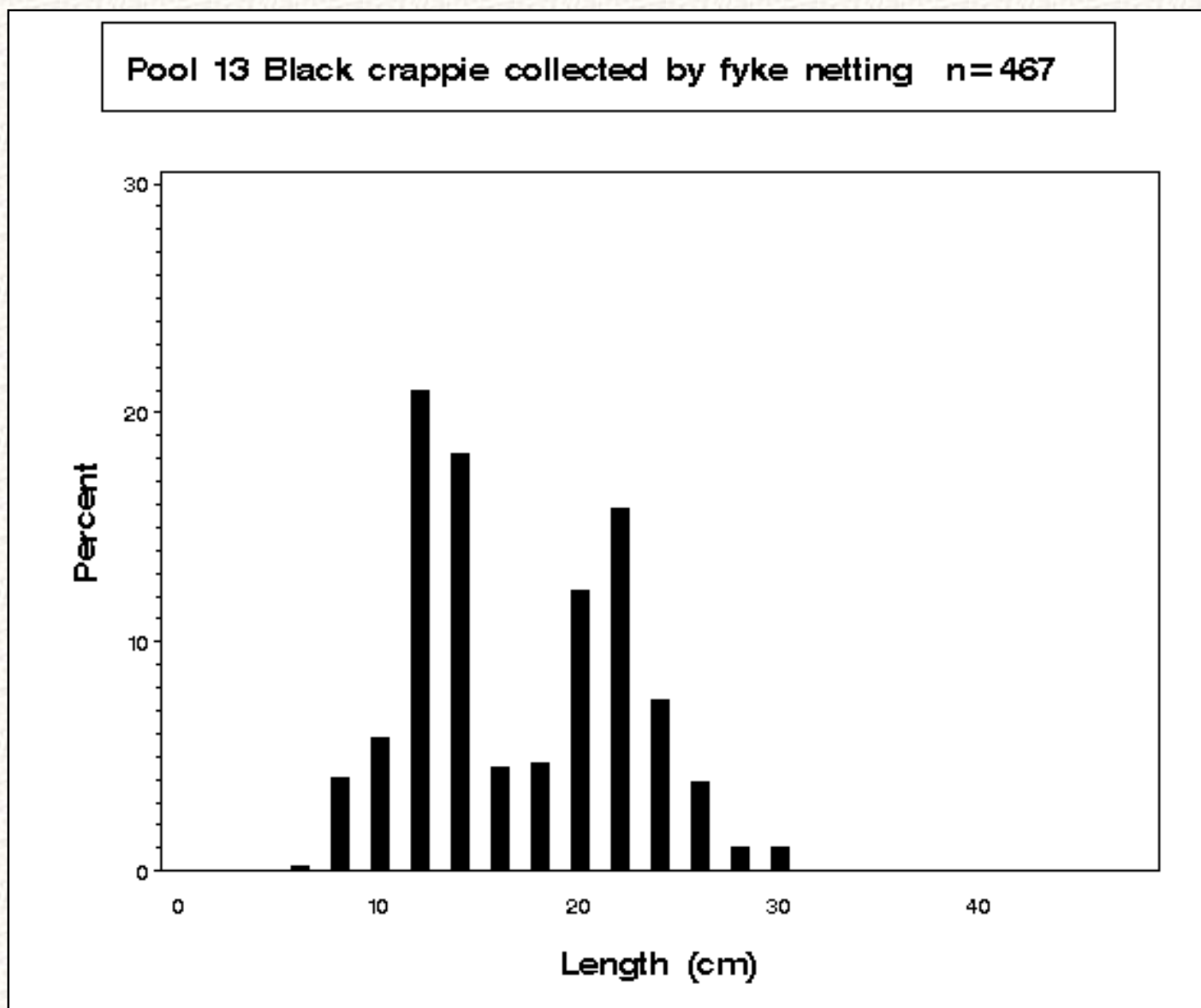
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**Figure 15.3** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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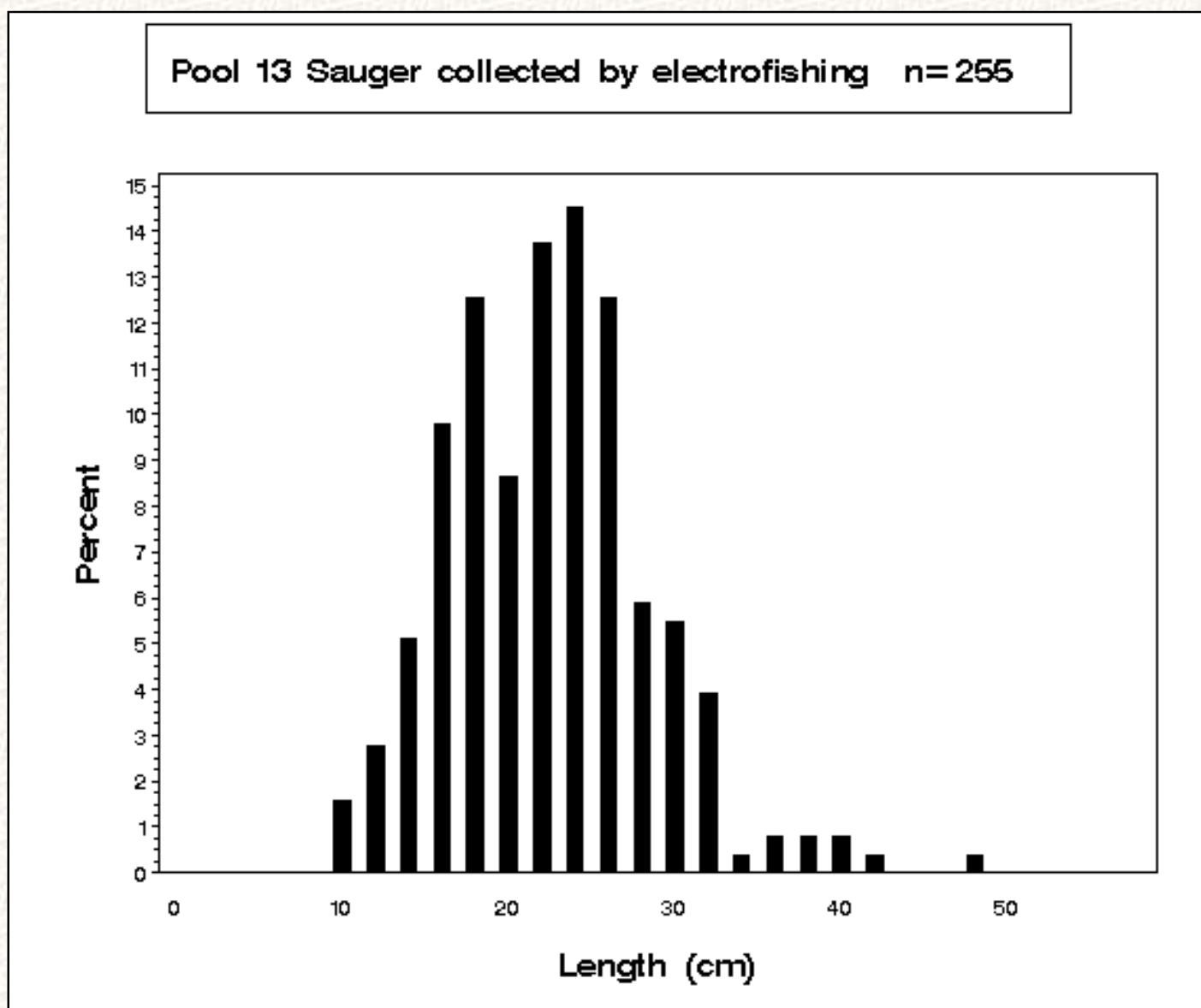
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**Figure 16.3** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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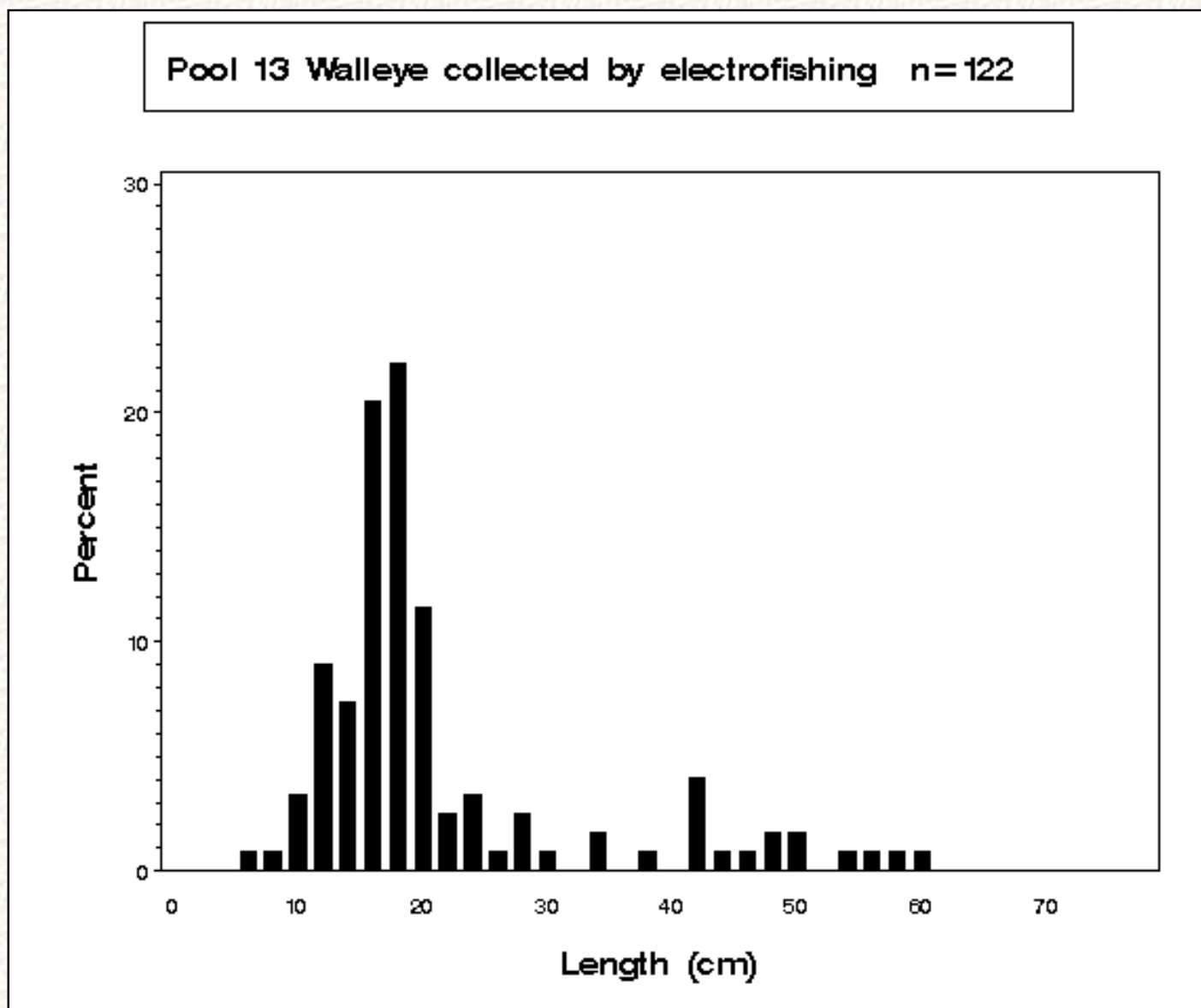
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**Figure 17.3** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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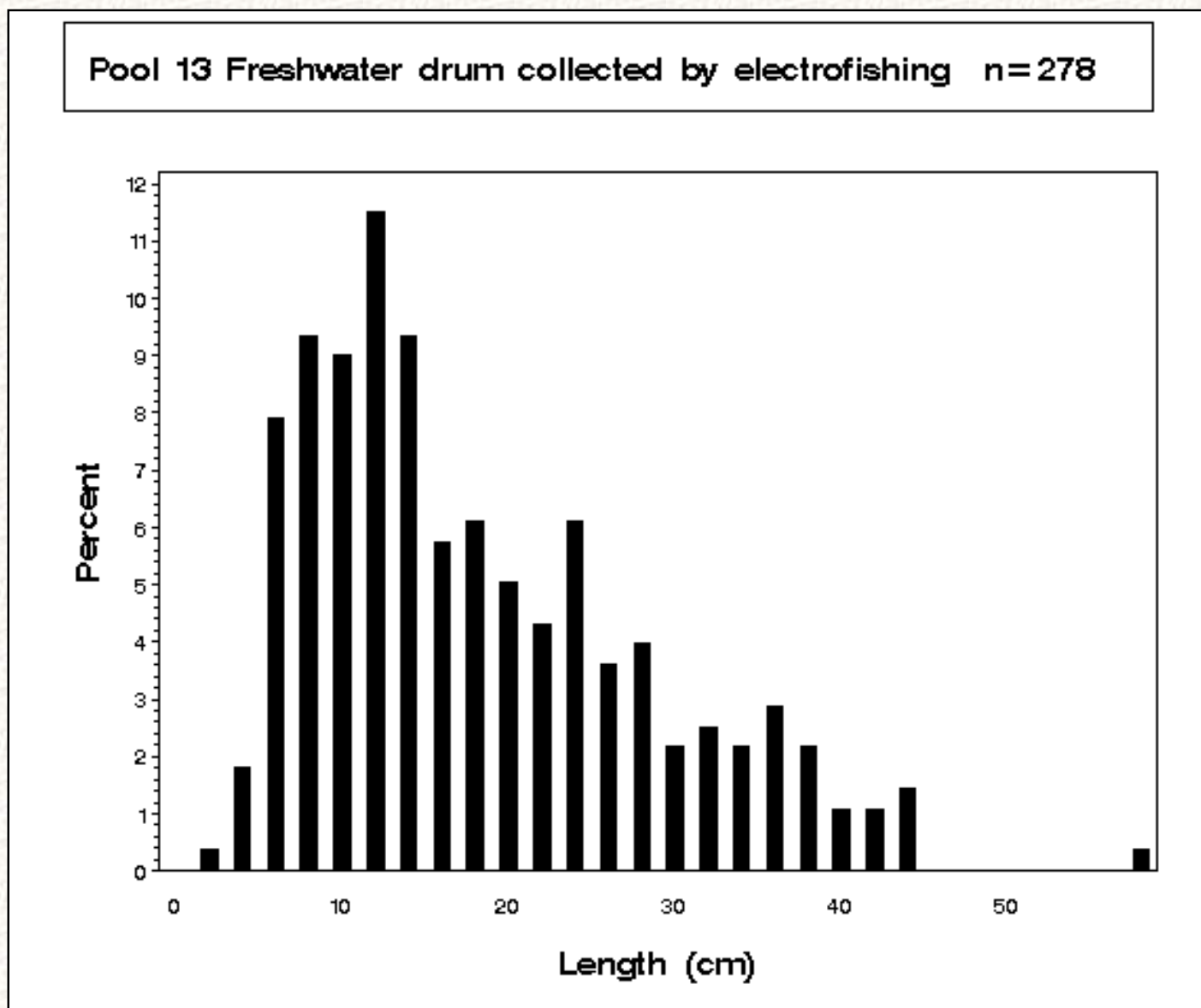
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**Figure 18.3** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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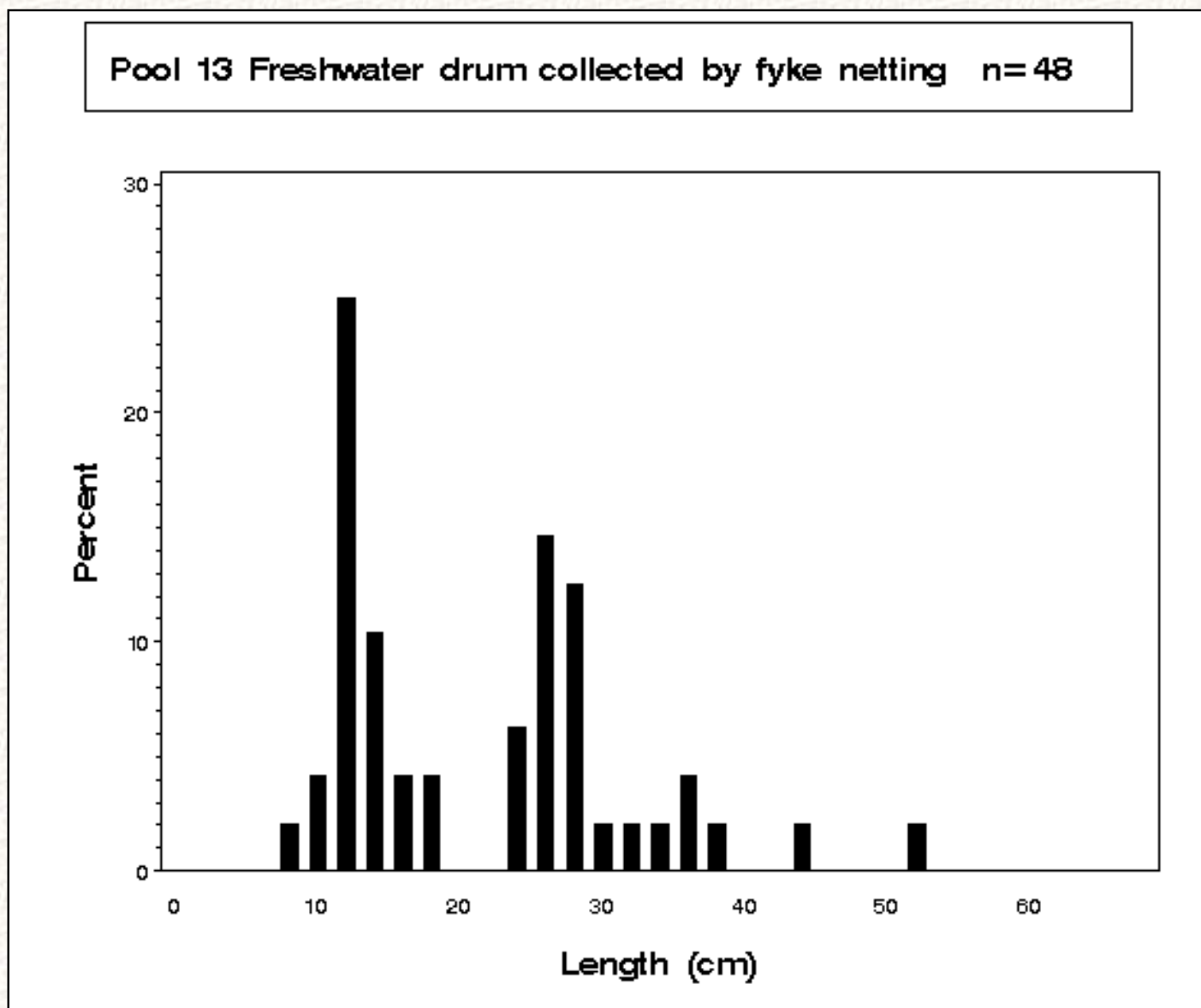
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**Figure 19.3** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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## Pool 26, Upper Mississippi River 2000 Fish Collection Summary

This report is a bullet summary of the [Long Term Resource Monitoring Program's](#) (LTRMP) fish collection efforts conducted by the [Great Rivers Field Station](#) on [Pool 26](#), Upper Mississippi River during 2000. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 386 fish collections were conducted using 10 gear types ([Table 2.4](#)).
- High water levels in the upper reach of Pool 26, low water levels in the extreme lower reach, and high current velocities throughout the pool caused minor sampling problems during period 1. Seining, in particular, was problematic because water levels were often outside the range of depths acceptable for seining ([Table 2.4](#); [Figure 1.4](#)).
- Period 1 missed samples that included one backwater, contiguous, offshore, large hoop net collection; one main channel border, wing dam, mini fyke net collection; and four tailwater zone, trawling collections ([Table 2.4](#)).
- Period 3 missed samples that included one side channel border and mini fyke net collection ([Table 2.4](#)).
- The duty cycle setting on the electrofishing unit was erroneously set at 2.5% rather than at the standard 25% during periods 1 and 2. Nonetheless, we believe it is unlikely that the deviation in duty cycle had a major effect on our catch because the number of species collected, the species composition, and the mean catch-per-unit-effort for 2000 were within the range of values seen in previous years.
- Of the 386 fish collections, 372 were from randomly selected sites. Fourteen collections were made at fixed sites.

- Main channel border, unstructured; side channel border; and backwater, contiguous, shoreline strata received the most sampling effort ([Table 2.4](#)).
- 28,511 fish were collected representing 63 species and 1 hybrid ([Table 3.4](#)).
- Fish distribution records for the Upper Mississippi River (Pitlo et al. 1995) document 99 fish species from Pool 26.
- The LTRMP species total for Pool 26 before the 2000 season was 87; one white perch (*Morone americana*) was collected, adding a new exotic species to the Pool 26 species total, and increasing the total to 88 species ([Table 3.4](#)).
- 123 bighead carp were collected in 2000, the greatest yearly total to date. This exotic species was first collected in 1991 (one specimen; [Table 3.4](#)).
- Eight silver carp were collected in 2000, which is the third year this exotic has appeared in the catch ([Table 3.4](#)).
- One western sand darter (Illinois-listed endangered species) was collected, and no Illinois-threatened species were collected ([Table 3.4](#)).
- Mean catch-per-unit-effort and standard effort for fish collected by gears using stratified random ([Tables 4.4-13.4](#)) and fixed-site sampling ([Tables 15.4-21.4](#)) for each stratum are shown.
- Length distributions for selected species of fish are shown in [Figures 2.4 to 19.4](#).

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**Table 2.4** Allocation of fish sampling effort among strata in Pool 26 of the Upper Mississippi River during 2000. Table entries are numbers of successfully completed standardized monitoring collections.

### Sampling period = 1: June 15–July 31

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	6		6	8	2	4				26
Fyke net	4		2			2				8
Large hoop net		1	5	8	2		2			18
Small hoop net		2	5	8	2		2			19
Mini fyke net	4		5	2	1	2				14
Night electrofishing									2	2
Seine			12	16						28
Trammel net (set)							2			2
Tandem fyke net		2					2			4
Tandem mini fyke net		2					2			4
<b>Subtotal</b>	<b>14</b>	<b>7</b>	<b>35</b>	<b>42</b>	<b>7</b>	<b>8</b>	<b>10</b>	<b>0</b>	<b>2</b>	<b>125</b>

### Sampling period = 2: August 1–September 14

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	6		6	8	2	4				26
Fyke net	4		2			2				8
Large hoop net		2	5	8	2		2			19
Small hoop net		2	5	8	2		2			19
Mini fyke net	4		5	2	2	2				15
Night electrofishing									2	2
Seine			10	18						28
Trawling									4	4

Trammel net (set)							2			2
Tandem fyke net		2					2			4
Tandem mini fyke net		2					2			4
<b>Subtotal</b>	<b>14</b>	<b>8</b>	<b>33</b>	<b>44</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>0</b>	<b>6</b>	<b>131</b>

### Sampling period = 3: September 15–October 31

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	6		6	9	2	3				26
Fyke net	4		2			2				8
Large hoop net		2	5	8	2		2			19
Small hoop net		2	5	8	2		2			19
Mini fyke net	4		4	2	2	2				14
Night electrofishing									2	2
Seine			12	16						28
Trawling									4	4
Trammel net (set)							2			2
Tandem fyke net		2					2			4
Tandem mini fyke net		2					2			4
<b>Subtotal</b>	<b>14</b>	<b>8</b>	<b>34</b>	<b>43</b>	<b>8</b>	<b>7</b>	<b>10</b>	<b>0</b>	<b>6</b>	<b>130</b>
<b>Total</b>	<b>42</b>	<b>23</b>	<b>102</b>	<b>129</b>	<b>23</b>	<b>23</b>	<b>30</b>	<b>0</b>	<b>14</b>	<b>386</b>

### Sampling strata:

**BWCS - Backwater, contiguous, shoreline**

**BWCO - Backwater, contiguous, offshore**

**SCB - Side channel border**

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**IMPS - Impounded, shoreline**

**IMPO - Impounded, offshore**

**TRI - Tributary mouth**

**TWZ - Tailwater**

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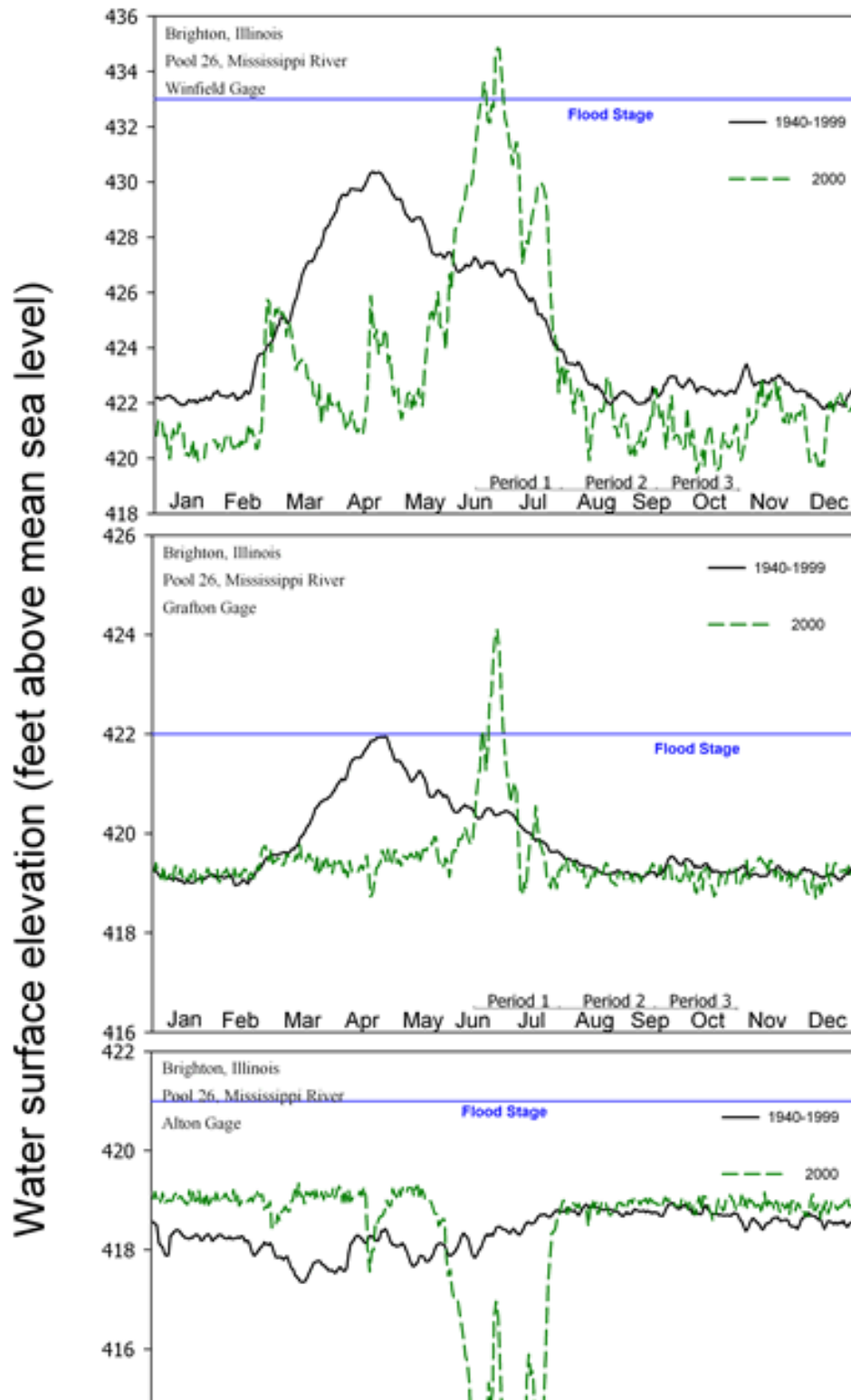


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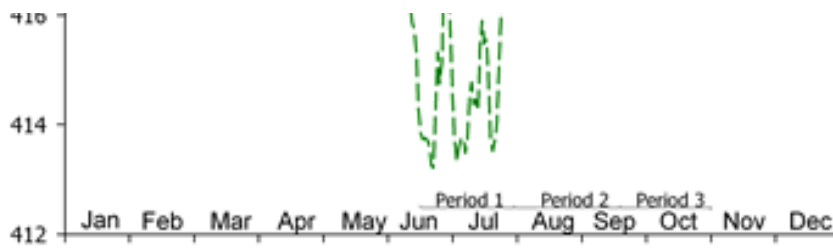


Figure 1.4 Daily water surface elevation from Winfield, Grafton, and Alton Gages for Pool 26, Mississippi River, during 2000 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski et al. 1995).

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**Table 3.4** Total catches, by gear type, of fish collected in Pool 26 of the Upper Mississippi River during 2000. See [Table 2.4](#) for the list of sampling gears actually deployed in this study reach.

Species	Common name	Scientific name	D	N	F	X	M	Y	S	HS	HL	G	TA	T	Total
1	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	-	-	-	23	23
2	Paddlefish	<i>Polyodon spathula</i>	-	-	-	-	-	-	-	-	-	-	9	-	9
3	Spotted gar	<i>Lepisosteus oculatus</i>	5	-	22	-	4	-	1	-	-	-	-	-	32
4	Longnose gar	<i>L. osseus</i>	3	1	-	-	-	-	-	-	-	-	-	-	4
5	Shortnose gar	<i>L. platostomus</i>	67	43	181	24	47	6	7	2	3	-	-	2	382
6	Bowfin	<i>Amia calva</i>	2	-	10	-	5	-	-	-	-	-	-	-	17
7	Goldeye	<i>Hiodon alosoides</i>	3	2	-	-	-	-	1	-	-	-	-	-	6
8	Mooneye	<i>H. tergisus</i>	-	-	-	-	-	-	24	-	-	-	-	-	24
9	American eel	<i>Anguilla rostrata</i>	-	1	-	-	-	-	-	-	-	-	-	-	1
10	Skipjack herring	<i>Alosa chrysochloris</i>	13	2	1	1	1	2	20	-	-	-	-	-	40
11	Gizzard shad	<i>Dorosoma cepedianum</i>	2947	198	75	224	40	45	618	-	15	-	-	4	4166
12	Threadfin shad	<i>D. petenense</i>	14	-	1	2	1	3	3	-	-	-	-	-	24
13	Grass carp	<i>Ctenopharyngodon idella</i>	8	1	-	-	12	5	14	1	-	-	-	-	41
14	Red shiner	<i>Cyprinella lutrensis</i>	3	-	-	-	-	-	4	-	-	-	-	-	7
15	Spotfin shiner	<i>C. spiloptera</i>	107	-	-	-	421	1	183	-	-	-	-	-	712
16	Common carp	<i>Cyprinus carpio</i>	596	130	25	18	32	177	10	51	98	-	6	-	1143
17	Mississippi silvery minnow	<i>Hybognathus nuchalis</i>	-	-	-	-	-	-	125	-	-	-	-	-	125
18	Silver carp	<i>Hypophthalmichthys molitrix</i>	-	-	-	-	-	2	-	-	5	-	1	-	8
19	Bighead carp	<i>H. nobilis</i>	-	-	9	17	5	30	8	-	49	-	5	-	123
20	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	-	-	-	-	-	-	-	-	-	-	14	14

21	Silver chub	<i>M. storeriana</i>	33	5	-	-	5	16	27	-	-	-	-	8	94
22	Emerald shiner	<i>Notropis atherinoides</i>	1121	19	-	-	3442	179	5811	-	-	-	-	2	10574
23	River shiner	<i>N. blennioides</i>	4	1	-	-	44	-	154	-	-	-	-	-	203
24	Ghost shiner	<i>N. buchanaui</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
25	Silverband shiner	<i>N. shumardi</i>	3	2	-	-	16	72	97	-	-	-	-	-	190
26	Sand shiner	<i>N. stramineus</i>	11	-	-	-	7	1	23	-	-	-	-	-	42
27	Channel shiner	<i>N. wickliffi</i>	179	-	-	-	921	49	1188	-	-	-	-	-	2337
28	Unidentified shiner	<i>Notropis</i> sp.	1	-	-	-	11	6	169	-	-	-	-	-	187
29	Bluntnose minnow	<i>Pimephales notatus</i>	-	-	-	-	3	1	2	-	-	-	-	-	6
30	Fathead minnow	<i>P. promelas</i>	-	-	-	-	-	1	-	-	-	-	-	-	1
31	Bullhead minnow	<i>P. vigilax</i>	50	2	-	-	37	13	21	-	-	-	-	-	123
32	Unidentified minnow	Unidentified Cyprinidae	2	-	-	-	113	-	3	-	-	-	-	-	118
33	River carpsucker	<i>Carpoides carpio</i>	31	6	8	22	-	-	21	-	6	-	-	-	94
34	Quillback	<i>C. cyprinus</i>	1	2	2	2	-	1	-	-	-	-	-	-	8
35	Unidentified carpsucker	<i>Carpoides</i> sp.	-	-	-	-	8	21	25	-	-	-	-	-	54
36	Blue sucker	<i>Cycleptus elongatus</i>	1	-	-	-	-	-	-	-	1	-	-	-	2
37	Smallmouth buffalo	<i>Ictiobus bubalus</i>	79	18	2	2	9	3	6	2	437	-	-	-	558
38	Bigmouth buffalo	<i>I. cyprinellus</i>	30	14	-	1	2	-	-	1	19	-	1	-	68
39	Black buffalo	<i>I. niger</i>	18	3	-	1	-	-	-	1	6	-	2	-	31
40	Unidentified buffalo	<i>Ictiobus</i> sp.	-	-	-	-	167	44	7	-	-	-	-	-	218
41	Spotted sucker	<i>Minytrema melanops</i>	-	-	-	1	-	-	-	-	-	-	-	-	1
42	Golden redhorse	<i>Moxostoma erythrurum</i>	-	-	-	-	-	-	1	-	-	-	-	-	1
43	Shorthead redhorse	<i>M. macrolepidotum</i>	6	4	1	3	-	-	-	1	3	-	-	-	18
44	Black bullhead	<i>Ameiurus melas</i>	-	-	2	-	1	-	-	-	-	-	-	-	3
45	Blue catfish	<i>Ictalurus furcatus</i>	-	-	-	-	-	-	-	62	10	-	-	17	89
46	Channel catfish	<i>I. punctatus</i>	90	9	5	6	32	2	13	778	59	-	-	60	1054

47	Stonecat	<i>Noturus flavus</i>	-	-	-	-	-	-	-	-	-	-	-	-	1	1
48	Tadpole madtom	<i>N. gyrinus</i>	1	-	-	-	-	-	-	-	-	-	-	-	-	1
49	Flathead catfish	<i>Pylodictis olivaris</i>	32	11	-	-	1	-	-	10	5	-	1	1	61	
50	Western mosquitofish	<i>Gambusia affinis</i>	50	-	-	-	1732	24	70	-	-	-	-	-	1876	
51	Brook silverside	<i>Labidesthes sicculus</i>	8	1	-	-	3	-	27	-	-	-	-	-	39	
52	White perch	<i>Morone americana</i>	-	-	-	1	-	-	-	-	-	-	-	-	1	
53	White bass	<i>M. chrysops</i>	54	70	85	34	25	14	21	4	13	-	-	-	320	
54	Yellow bass	<i>M. mississippiensis</i>	-	9	4	3	-	-	-	-	-	-	-	-	16	
55	Striped x white bass	<i>M. saxatilis x chrysops</i>	-	-	-	-	-	-	-	-	1	-	-	-	1	
56	Green sunfish	<i>Lepomis cyanellus</i>	51	-	-	-	-	-	-	-	-	-	-	-	51	
57	Warmouth	<i>L. gulosus</i>	14	-	3	-	-	-	-	-	-	-	-	-	17	
58	Orangespotted sunfish	<i>L. humilis</i>	407	1	6	3	115	40	4	-	-	-	-	-	576	
59	Bluegill	<i>L. macrochirus</i>	564	65	152	27	1101	38	16	1	2	-	-	-	1966	
60	Unidentified Lepomis	<i>Lepomis sp.</i>	6	-	-	-	143	2	6	-	-	-	-	-	157	
61	Largemouth bass	<i>Micropterus salmoides</i>	47	6	1	-	-	-	-	-	-	-	-	-	54	
62	White crappie	<i>Pomoxis annularis</i>	16	15	42	8	8	5	-	1	3	-	-	-	98	
63	Black crappie	<i>P. nigromaculatus</i>	8	6	60	20	8	3	2	-	1	-	-	-	108	
64	Unidentified sunfish	Unidentified Centrarchidae	-	-	-	-	2	4	-	-	-	-	-	-	6	
65	Western sand darter	<i>Ammocrypta clara</i>	-	-	-	-	-	-	1	-	-	-	-	-	1	
66	Logperch	<i>Percina caprodes</i>	2	-	-	-	1	-	-	-	-	-	-	-	3	
67	River darter	<i>P. shumardi</i>	-	-	-	-	5	-	8	-	-	-	-	-	13	
68	Sauger	<i>Stizostedion canadense</i>	2	4	-	3	-	1	-	-	-	-	-	1	11	
69	Walleye	<i>S. vitreum</i>	2	-	-	-	-	-	-	-	-	-	-	-	2	
70	Freshwater drum	<i>Aplodinotus grunniens</i>	260	46	24	64	76	157	100	35	51	-	3	80	896	
			<b>6952</b>	<b>697</b>	<b>721</b>	<b>487</b>	<b>8607</b>	<b>968</b>	<b>8841</b>	<b>950</b>	<b>787</b>	<b>0</b>	<b>28</b>	<b>213</b>	<b>29251</b>	

**Sampling gears:****D - Day electrofishing****N - Night electrofishing****F - Fyke netting**

- X - Tandem fyke netting**
- M - Mini fyke netting**
- Y - Tandem mini fyke netting**
- S - Seining**
- HS - Small hoop netting**
- HL - Large hoop netting**
- G - Gill netting**
- TA - Trammel netting**
- T- Trawling**

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## Pool 26 Tables

Table*	Stratified Random Sampling
<a href="#">4.4</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">6.4</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">7.4</a>	Mean catch-per-unit-effort for fish collected by tandem fyke netting
<a href="#">8.4</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">9.4</a>	Mean catch-per-unit-effort for fish collected by tandem mini fyke netting
<a href="#">10.4</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">11.4</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">12.4</a>	Mean catch-per-unit-effort for fish collected by seining
<a href="#">13.4</a>	Mean catch-per-unit-effort for fish collected by anchored trammel netting
	Fixed-site Sampling
<a href="#">15.4</a>	Mean catch-per-unit-effort for fish collected by night electrofishing
<a href="#">21.4</a>	Mean catch-per-unit-effort for fish collected by bottom trawling

\*Table numbers are not always in sequence because some gears were not fished in some study areas. Table numbers for each gear type are consistent among study areas.

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**Table 4.4** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	MCBU	MCBW	SCB
<b>Spotted gar</b>	0.04	0.17				0.11
	(0.02)	(0.12)				(0.08)
<b>Longnose gar</b>	0.07			0.08		0.06
	(0.06)			(0.08)		(0.06)
<b>Shortnose gar</b>	1.10	0.67	0.36	1.04	0.17	1.33
	(0.33)	(0.26)	(0.15)	(0.43)	(0.17)	(0.62)
<b>Bowfin</b>	0.00	0.11				
	(0.00)	(0.08)				
<b>Goldeye</b>	0.03		0.09			0.11
	(0.03)		(0.09)			(0.11)
<b>Skipjack herring</b>	0.24	0.17		0.32	0.17	0.06
	(0.09)	(0.09)		(0.14)	(0.17)	(0.06)
<b>Gizzard shad</b>	44.34	25.17	31.45	41.88	24.00	53.17
	(10.50)	(8.70)	(18.88)	(12.46)	(14.56)	(22.61)
<b>Threadfin shad</b>	0.01		1.27			
	(0.01)		(0.90)			
<b>Grass carp</b>	0.05	0.22		0.04	0.33	0.06

	(0.03)	(0.13)		(0.04)	(0.21)	(0.06)
<b>Red shiner</b>	0.01	0.11	0.09			
	(0.00)	(0.11)	(0.09)			
<b>Spotfin shiner</b>	0.15	0.78	8.18	0.04	0.17	0.06
	(0.08)	(0.56)	(8.08)	(0.04)	(0.17)	(0.06)
<b>Common carp</b>	9.23	3.44	1.27	6.92	10.83	15.67
	(1.74)	(0.78)	(0.41)	(1.77)	(2.64)	(4.48)
<b>Silver chub</b>	0.03		2.91		0.17	
	(0.03)		(2.91)		(0.17)	
<b>Emerald shiner</b>	4.79	14.56	25.82	3.08	63.00	6.67
	(1.13)	(5.86)	(19.21)	(1.27)	(43.18)	(2.45)
<b>River shiner</b>	0.02	0.11	0.09			0.06
	(0.02)	(0.08)	(0.09)			(0.06)
<b>Silverband shiner</b>	0.00	0.06	0.18			
	(0.00)	(0.06)	(0.18)			
<b>Sand shiner</b>	0.06	0.11	0.18	0.04	0.67	0.11
	(0.04)	(0.11)	(0.18)	(0.04)	(0.67)	(0.11)
<b>Channel shiner</b>	0.21	0.06	15.64	0.08	0.50	0.06
	(0.15)	(0.06)	(15.34)	(0.08)	(0.50)	(0.06)
<b>Unidentified shiner</b>	0.03			0.04		
	(0.03)			(0.04)		
<b>Bullhead minnow</b>	0.12	1.33	2.00	0.08	0.33	
	(0.04)	(0.46)	(1.23)	(0.06)	(0.33)	
<b>Unidentified minnow</b>	0.00	0.11				
	(0.00)	(0.11)				
<b>River carpsucker</b>	0.31	0.56	0.27	0.16	0.50	0.61
	(0.11)	(0.27)	(0.14)	(0.09)	(0.34)	(0.30)
<b>Quillback</b>	0.00		0.09			
	(0.00)		(0.09)			
<b>Blue sucker</b>	0.00				0.17	



	(0.00)				(0.17)	
<b>Smallmouth buffalo</b>	0.90	1.94	0.36	0.92	0.67	0.72
	(0.26)	(0.60)	(0.15)	(0.36)	(0.33)	(0.30)
<b>Bigmouth buffalo</b>	0.20	0.56	0.82	0.04	0.17	0.50
	(0.12)	(0.32)	(0.72)	(0.04)	(0.17)	(0.39)
<b>Black buffalo</b>	0.23	0.22	0.09	0.04		0.67
	(0.11)	(0.10)	(0.09)	(0.04)		(0.36)
<b>Shorthead redhorse</b>	0.05	0.17				0.17
	(0.04)	(0.17)				(0.12)
<b>Channel catfish</b>	1.24	1.33	0.73	1.20	0.67	1.33
	(0.29)	(0.49)	(0.27)	(0.39)	(0.49)	(0.46)
<b>Tadpole madtom</b>	0.00	0.06				
	(0.00)	(0.06)				
<b>Flathead catfish</b>	0.46	0.28	0.09	0.44	0.83	0.56
	(0.12)	(0.28)	(0.09)	(0.16)	(0.54)	(0.20)
<b>Western mosquitofish</b>	0.32	2.22		0.28		0.17
	(0.18)	(1.60)		(0.24)		(0.17)
<b>Brook silverside</b>	0.03	0.39				0.06
	(0.02)	(0.28)				(0.06)
<b>White bass</b>	0.59	0.44	0.91	0.40	1.17	1.06
	(0.14)	(0.20)	(0.49)	(0.14)	(0.83)	(0.35)
<b>Green sunfish</b>	0.33	1.06	1.27	0.08	0.33	0.78
	(0.16)	(0.63)	(0.79)	(0.06)	(0.21)	(0.55)
<b>Warmouth</b>	0.03	0.78				
	(0.02)	(0.62)				
<b>Orangespotted sunfish</b>	0.94	19.50	4.64	0.16		0.06
	(0.25)	(6.18)	(1.99)	(0.09)		(0.06)
<b>Bluegill</b>	2.47	19.67	13.18	2.00		0.83
	(1.03)	(8.56)	(8.84)	(1.46)		(0.39)
<b>Unidentified Lepomis</b>	0.01	0.33				

	(0.01)	(0.33)				
<b>Largemouth bass</b>	0.32	0.72	1.91	0.24		0.39
	(0.10)	(0.42)	(0.85)	(0.12)		(0.23)
<b>White crappie</b>	0.03	0.83	0.09			
	(0.02)	(0.43)	(0.09)			
<b>Black crappie</b>	0.03	0.33	0.09			0.06
	(0.02)	(0.14)	(0.09)			(0.06)
<b>Logperch</b>	0.03	0.06		0.04		
	(0.03)	(0.06)		(0.04)		
<b>Sauger</b>	0.00	0.11				
	(0.00)	(0.11)				
<b>Walleye</b>	0.00		0.09		0.17	
	(0.00)		(0.09)		(0.17)	
<b>Freshwater drum</b>	2.13	7.67	2.36	1.80	2.17	2.11
	(0.69)	(2.11)	(1.65)	(0.98)	(1.78)	(0.77)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_26/tb3\\_\\_al0003.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_26/tb3__al0003.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►

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**Table 6.4** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	SCB
<b>Spotted gar</b>	0.22	1.82		
	(0.09)	(0.73)		
<b>Shortnose gar</b>	3.46	13.12	1.19	2.19
	(1.20)	(4.39)	(1.00)	(1.26)
<b>Bowfin</b>	0.10	0.81		
	(0.03)	(0.29)		
<b>Skipjack herring</b>	0.01	0.07		
	(0.01)	(0.07)		
<b>Gizzard shad</b>	1.22	5.13	1.27	0.67
	(0.66)	(2.69)	(1.08)	(0.67)
<b>Threadfin shad</b>	0.00		0.17	
	(0.00)		(0.17)	
<b>Common carp</b>	1.05	1.42	0.31	1.02
	(0.32)	(0.43)	(0.31)	(0.37)
<b>Bighead carp</b>	0.09	0.75		
	(0.08)	(0.66)		
<b>River carpsucker</b>	0.07	0.57	0.16	

	(0.04)	(0.35)	(0.16)	
<b>Quillback</b>	0.02	0.17		
	(0.02)	(0.17)		
<b>Smallmouth buffalo</b>	0.01	0.08	0.17	
	(0.01)	(0.08)	(0.17)	
<b>Shorthead redhorse</b>	0.00		0.17	
	(0.00)		(0.17)	
<b>Black bullhead</b>	0.02	0.17		
	(0.01)	(0.11)		
<b>Channel catfish</b>	0.31	0.08	0.34	0.34
	(0.29)	(0.08)	(0.22)	(0.34)
<b>White bass</b>	1.79	4.66	3.16	1.35
	(0.56)	(2.32)	(1.05)	(0.57)
<b>Yellow bass</b>	0.03	0.16	0.33	
	(0.01)	(0.11)	(0.21)	
<b>Warmouth</b>	0.03	0.25		
	(0.03)	(0.25)		
<b>Orangespotted sunfish</b>	0.04	0.25	0.49	
	(0.03)	(0.25)	(0.34)	
<b>Bluegill</b>	1.55	9.15	6.24	0.34
	(0.59)	(4.24)	(4.08)	(0.34)
<b>Largemouth bass</b>	0.01	0.08		
	(0.01)	(0.08)		
<b>White crappie</b>	0.33	2.16	2.65	
	(0.12)	(1.02)	(1.08)	
<b>Black crappie</b>	0.62	3.38	2.78	0.17
	(0.19)	(1.03)	(1.00)	(0.17)
<b>Freshwater drum</b>	1.41	0.25	2.03	1.56
	(0.57)	(0.13)	(1.48)	(0.66)

### Sampling strata:

**BWCS - Backwater, contiguous, shoreline**

**IMPS - Impounded, shoreline**

**SCB - Side channel border**

*Last updated on August 26, 2004*

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**Table 7.4** Mean catch-per-unit-effort and (standard error) for fish collected by tandem fyke netting in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO	IMPO
<b>Shortnose gar</b>	0.91	1.83	0.26
	(0.33)	(0.76)	(0.18)
<b>Skipjack herring</b>	0.04	0.09	
	(0.04)	(0.09)	
<b>Gizzard shad</b>	9.00	10.22	8.14
	(4.69)	(6.28)	(6.72)
<b>Threadfin shad</b>	0.07	0.17	
	(0.04)	(0.11)	
<b>Common carp</b>	0.73	1.24	0.37
	(0.25)	(0.50)	(0.24)
<b>Bighead carp</b>	0.61	1.49	
	(0.33)	(0.80)	
<b>River carpsucker</b>	0.77	1.88	
	(0.44)	(1.07)	
<b>Quillback</b>	0.09	0.08	0.09
	(0.06)	(0.08)	(0.09)
<b>Smallmouth buffalo</b>	0.08	0.08	0.08

	(0.06)	(0.08)	(0.08)
<b>Bigmouth buffalo</b>	0.06		0.09
	(0.05)		(0.09)
<b>Black buffalo</b>	0.04	0.09	
	(0.04)	(0.09)	
<b>Spotted sucker</b>	0.03	0.08	
	(0.03)	(0.08)	
<b>Shorthead redhorse</b>	0.13	0.08	0.17
	(0.07)	(0.08)	(0.11)
<b>Channel catfish</b>	0.29	0.09	0.42
	(0.10)	(0.09)	(0.16)
<b>White perch</b>	0.05		0.08
	(0.05)		(0.08)
<b>White bass</b>	1.32	1.77	1.01
	(0.66)	(1.07)	(0.84)
<b>Yellow bass</b>	0.12	0.16	0.09
	(0.07)	(0.10)	(0.09)
<b>Orangespotted sunfish</b>	0.15		0.26
	(0.15)		(0.26)
<b>Bluegill</b>	1.07	1.50	0.77
	(0.45)	(0.55)	(0.67)
<b>White crappie</b>	0.38	0.16	0.54
	(0.15)	(0.10)	(0.24)
<b>Black crappie</b>	0.93	0.51	1.23
	(0.26)	(0.14)	(0.43)
<b>Sauger</b>	0.14		0.24
	(0.10)		(0.17)
<b>Freshwater drum</b>	3.12	0.58	4.89
	(1.87)	(0.14)	(3.20)

### Sampling strata:

**BWCO - Backwater, contiguous, offshore**  
**IMPO - Impounded, offshore**

*Last updated on August 26, 2004*

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**Table 8.4** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	IMPS	MCBU	MCBW	SCB
<b>Spotted gar</b>	0.05	0.16				0.14
	(0.04)	(0.11)				(0.14)
<b>Shortnose gar</b>	0.74	1.91	1.74	0.69		0.65
	(0.26)	(0.69)	(1.52)	(0.34)		(0.44)
<b>Bowfin</b>	0.09					0.32
	(0.09)					(0.32)
<b>Skipjack herring</b>	0.00		0.17			
	(0.00)		(0.17)			
<b>Gizzard shad</b>	0.36	0.95	2.21			1.04
	(0.21)	(0.70)	(2.02)			(0.74)
<b>Threadfin shad</b>	0.02					0.06
	(0.02)					(0.06)
<b>Grass carp</b>	0.85	0.17		1.18		0.21
	(0.79)	(0.11)		(1.18)		(0.21)
<b>Spotfin shiner</b>	8.19	8.92	15.72	7.10	5.47	10.39
	(4.59)	(3.80)	(15.72)	(6.29)	(4.73)	(6.59)
<b>Common carp</b>	1.37	0.42	0.16	1.54	0.21	1.14

	(0.70)	(0.19)	(0.16)	(0.98)	(0.21)	(0.84)
<b>Bighead carp</b>	0.23	0.08	0.38	0.34		
	(0.22)	(0.08)	(0.38)	(0.34)		
<b>Silver chub</b>	0.60			0.91		
	(0.60)			(0.91)		
<b>Emerald shiner</b>	33.95	18.95	357.56	15.11	53.95	69.48
	(12.28)	(11.76)	(349.87)	(9.13)	(32.87)	(35.69)
<b>River shiner</b>	0.83	0.14	0.19	0.17	1.01	2.47
	(0.47)	(0.14)	(0.19)	(0.17)	(1.01)	(1.60)
<b>Ghost shiner</b>	0.00				0.21	
	(0.00)				(0.21)	
<b>Silverband shiner</b>	0.15	1.14		0.15		
	(0.10)	(0.55)		(0.15)		
<b>Sand shiner</b>	0.01	0.08	0.57		0.61	
	(0.01)	(0.08)	(0.57)		(0.61)	
<b>Channel shiner</b>	7.53	48.47	3.77	2.91	8.48	12.70
	(3.10)	(31.17)	(3.57)	(1.26)	(8.48)	(9.51)
<b>Unidentified shiner</b>	0.02	0.36	0.94			
	(0.02)	(0.36)	(0.94)			
<b>Bluntnose minnow</b>	0.02	0.07			0.20	0.07
	(0.02)	(0.07)			(0.20)	(0.07)
<b>Bullhead minnow</b>	0.14	0.40	5.15			0.26
	(0.07)	(0.25)	(4.00)			(0.20)
<b>Unidentified minnow</b>	0.20	0.36	20.45			
	(0.18)	(0.36)	(20.45)			
<b>Unidentified carpsucker</b>	0.09	0.35				0.26
	(0.06)	(0.35)				(0.20)
<b>Smallmouth buffalo</b>	0.46	0.34	0.17	0.67		
	(0.45)	(0.26)	(0.17)	(0.67)		
<b>Bigmouth buffalo</b>	0.01	0.17				

	(0.00)	(0.11)				
<b>Unidentified buffalo</b>	0.28	0.92	24.23		0.21	0.07
	(0.22)	(0.34)	(24.02)		(0.21)	(0.07)
<b>Black bullhead</b>	0.02					0.07
	(0.02)					(0.07)
<b>Channel catfish</b>	0.57	0.49				1.91
	(0.28)	(0.26)				(0.97)
<b>Flathead catfish</b>	0.00				0.21	
	(0.00)				(0.21)	
<b>Western mosquitofish</b>	16.18	118.49	0.33	16.98	0.21	0.62
	(10.91)	(75.95)	(0.21)	(15.78)	(0.21)	(0.38)
<b>Brook silverside</b>	0.14	0.07		0.18		0.07
	(0.12)	(0.07)		(0.18)		(0.07)
<b>White bass</b>	0.39	0.17	2.32	0.35	0.21	0.44
	(0.25)	(0.11)	(1.57)	(0.35)	(0.21)	(0.26)
<b>Orangespotted sunfish</b>	0.49	8.03	0.70	0.18		0.15
	(0.21)	(4.48)	(0.22)	(0.18)		(0.10)
<b>Bluegill</b>	21.81	4.89	4.92	2.10	1.43	70.63
	(18.10)	(3.02)	(3.23)	(1.00)	(0.89)	(63.37)
<b>Unidentified Lepomis</b>	0.87	0.43	22.54	0.51		1.08
	(0.37)	(0.43)	(22.54)	(0.34)		(0.74)
<b>White crappie</b>	0.06	0.33	0.34			0.14
	(0.03)	(0.19)	(0.34)			(0.10)
<b>Black crappie</b>	0.15	0.08	0.89	0.18		0.08
	(0.12)	(0.08)	(0.43)	(0.18)		(0.08)
<b>Unidentified sunfish</b>	0.12	0.08		0.18		
	(0.12)	(0.08)		(0.18)		
<b>Logperch</b>	0.00		0.17			
	(0.00)		(0.17)			
<b>River darter</b>	0.12		0.34	0.18	0.42	

	(0.12)		(0.34)	(0.18)	(0.42)	
<b>Freshwater drum</b>	2.06	0.32	0.70	1.43	1.90	3.79
	(0.89)	(0.14)	(0.34)	(0.95)	(1.19)	(2.19)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****IMPS - Impounded, shoreline****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_26/tb3\\_\\_al0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_26/tb3__al0006.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 9.4** Mean catch-per-unit-effort and (standard error) for fish collected by tandem mini fyke netting in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO	IMPO
<b>Shortnose gar</b>	0.20	0.48	
	(0.13)	(0.32)	
<b>Skipjack herring</b>	0.10		0.16
	(0.09)		(0.16)
<b>Gizzard shad</b>	1.81	2.77	1.15
	(0.91)	(1.93)	(0.77)
<b>Threadfin shad</b>	0.14	0.09	0.18
	(0.11)	(0.09)	(0.18)
<b>Grass carp</b>	0.19	0.46	
	(0.19)	(0.46)	
<b>Spotfin shiner</b>	0.03	0.08	
	(0.03)	(0.08)	
<b>Common carp</b>	5.69	13.82	
	(4.75)	(11.64)	
<b>Silver carp</b>	0.08	0.18	
	(0.08)	(0.18)	
<b>Bighead carp</b>	1.12	2.73	

	(1.04)	(2.55)	
<b>Silver chub</b>	0.66	0.66	0.66
	(0.29)	(0.55)	(0.30)
<b>Emerald shiner</b>	7.72	6.26	8.75
	(3.61)	(1.80)	(6.03)
<b>Silverband shiner</b>	2.54	6.16	
	(1.58)	(3.87)	
<b>Sand shiner</b>	0.05		0.08
	(0.05)		(0.08)
<b>Channel shiner</b>	2.05	2.32	1.86
	(1.37)	(2.22)	(1.76)
<b>Unidentified shiner</b>	0.30		0.51
	(0.21)		(0.36)
<b>Bluntnose minnow</b>	0.06		0.09
	(0.06)		(0.09)
<b>Fathead minnow</b>	0.03	0.08	
	(0.03)	(0.08)	
<b>Bullhead minnow</b>	0.62	0.08	1.00
	(0.29)	(0.08)	(0.49)
<b>Quillback</b>	0.04	0.09	
	(0.04)	(0.09)	
<b>Unidentified carpsucker</b>	0.72	1.75	
	(0.58)	(1.41)	
<b>Smallmouth buffalo</b>	0.11	0.28	
	(0.11)	(0.28)	
<b>Unidentified buffalo</b>	1.46	3.54	
	(0.93)	(2.27)	
<b>Channel catfish</b>	0.10		0.17
	(0.06)		(0.11)
<b>Western mosquitofish</b>	0.77	1.87	

	(0.72)	(1.77)	
<b>White bass</b>	0.60	0.53	0.65
	(0.36)	(0.35)	(0.56)
<b>Orangespotted sunfish</b>	1.57	2.35	1.03
	(0.52)	(1.08)	(0.49)
<b>Bluegill</b>	1.62	1.69	1.57
	(0.73)	(0.80)	(1.11)
<b>Unidentified Lepomis</b>	0.07	0.16	
	(0.07)	(0.16)	
<b>White crappie</b>	0.24	0.09	0.35
	(0.14)	(0.09)	(0.22)
<b>Black crappie</b>	0.15		0.26
	(0.10)		(0.17)
<b>Unidentified sunfish</b>	0.16	0.16	0.16
	(0.10)	(0.10)	(0.16)
<b>Sauger</b>	0.05		0.08
	(0.05)		(0.08)
<b>Freshwater drum</b>	6.15	9.36	3.91
	(1.32)	(2.74)	(1.21)

**Sampling strata:****BWCO - Backwater, contiguous, offshore****IMPO - Impounded, offshore***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_26/tb3\\_\\_al0007.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_26/tb3__al0007.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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**Table 10.4** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO	IMPO	MCBU	MCBW	SCB
<b>Shortnose gar</b>	0.00	0.17				
	(0.00)	(0.17)				
<b>Grass carp</b>	0.00	0.09				
	(0.00)	(0.09)				
<b>Common carp</b>	0.39	1.11	0.08	0.17	0.26	0.88
	(0.15)	(0.62)	(0.08)	(0.08)	(0.26)	(0.47)
<b>Smallmouth buffalo</b>	0.02					0.07
	(0.01)					(0.05)
<b>Bigmouth buffalo</b>	0.00				0.08	
	(0.00)				(0.08)	
<b>Black buffalo</b>	0.00	0.08				
	(0.00)	(0.08)				
<b>Shorthead redhorse</b>	0.00				0.09	
	(0.00)				(0.09)	
<b>Blue catfish</b>	0.60			0.46	0.85	1.01
	(0.37)			(0.34)	(0.85)	(1.01)
<b>Channel catfish</b>	7.41	0.17	2.81	5.45	9.27	12.85



	(2.24)	(0.17)	(0.92)	(2.08)	(3.94)	(6.14)
<b>Flathead catfish</b>	0.11			0.13	0.09	0.10
	(0.05)			(0.06)	(0.09)	(0.07)
<b>White bass</b>	0.02	0.25		0.02		
	(0.01)	(0.17)		(0.02)		
<b>Bluegill</b>	0.00				0.08	
	(0.00)				(0.08)	
<b>White crappie</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Freshwater drum</b>	0.39	0.08	0.25	0.39	0.09	0.41
	(0.13)	(0.08)	(0.17)	(0.16)	(0.09)	(0.22)

**Sampling strata:****BWCO - Backwater, contiguous, offshore****IMPO - Impounded, offshore****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/pool\\_26/tb3\\_\\_al0008.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/pool_26/tb3__al0008.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 11.4** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO	IMPO	MCBU	MCBW	SCB
<b>Shortnose gar</b>	0.01		0.25			
	(0.00)		(0.17)			
<b>Gizzard shad</b>	0.04	1.02	0.33	0.02		
	(0.02)	(0.46)	(0.17)	(0.02)		
<b>Common carp</b>	0.95		0.49	0.41	0.34	2.33
	(0.42)		(0.33)	(0.28)	(0.26)	(1.32)
<b>Silver carp</b>	0.01	0.21	0.25			
	(0.01)	(0.21)	(0.17)			
<b>Bighead carp</b>	0.12	1.73	2.39			0.10
	(0.04)	(0.62)	(1.05)			(0.07)
<b>River carpsucker</b>	0.05		0.25	0.04		0.03
	(0.02)		(0.17)	(0.03)		(0.03)
<b>Blue sucker</b>	0.00				0.09	
	(0.00)				(0.09)	
<b>Smallmouth buffalo</b>	3.29	1.54	3.56	2.26	8.26	5.77
	(0.73)	(0.69)	(2.54)	(0.69)	(6.34)	(1.98)
<b>Bigmouth buffalo</b>	0.02	0.31	0.32		0.92	0.03

	(0.01)	(0.20)	(0.16)		(0.92)	(0.03)
<b>Black buffalo</b>	0.05		0.08	0.06	0.08	0.03
	(0.03)		(0.08)	(0.04)	(0.08)	(0.03)
<b>Shorthead redhorse</b>	0.02				0.09	0.07
	(0.01)				(0.09)	(0.05)
<b>Blue catfish</b>	0.09		0.17	0.08	0.08	0.10
	(0.04)		(0.17)	(0.04)	(0.08)	(0.10)
<b>Channel catfish</b>	0.54	0.31	0.33	0.32	0.41	1.08
	(0.13)	(0.20)	(0.16)	(0.11)	(0.24)	(0.39)
<b>Flathead catfish</b>	0.06			0.06		0.07
	(0.04)			(0.05)		(0.07)
<b>White bass</b>	0.07	0.10	0.33	0.06	0.25	0.07
	(0.03)	(0.10)	(0.16)	(0.03)	(0.11)	(0.05)
<b>Striped x white bass</b>	0.00	0.10				
	(0.00)	(0.10)				
<b>Bluegill</b>	0.00	0.10	0.08			
	(0.00)	(0.10)	(0.08)			
<b>White crappie</b>	0.01	0.10	0.08			0.03
	(0.01)	(0.10)	(0.08)			(0.03)
<b>Black crappie</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Freshwater drum</b>	0.60			0.73	0.43	0.40
	(0.21)			(0.29)	(0.28)	(0.24)

**Sampling strata:****BWCO - Backwater, contiguous, offshore****IMPO - Impounded, offshore****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border**

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**Table 12.4** Mean catch-per-unit-effort and (standard error) for fish collected by seining in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Spotted gar</b>	0.01		0.03
	(0.01)		(0.03)
<b>Shortnose gar</b>	0.08	0.06	0.11
	(0.03)	(0.04)	(0.07)
<b>Goldeye</b>	0.01	0.02	
	(0.01)	(0.02)	
<b>Mooneye</b>	0.28	0.27	0.31
	(0.12)	(0.15)	(0.18)
<b>Skipjack herring</b>	0.24	0.25	0.22
	(0.09)	(0.12)	(0.10)
<b>Gizzard shad</b>	6.55	4.67	10.94
	(1.26)	(1.08)	(3.35)
<b>Threadfin shad</b>	0.03		0.08
	(0.02)		(0.06)
<b>Grass carp</b>	0.17	0.19	0.14
	(0.08)	(0.11)	(0.07)
<b>Red shiner</b>	0.05	0.04	0.06

	(0.03)	(0.04)	(0.04)
<b>Spotfin shiner</b>	1.86	1.13	3.58
	(0.58)	(0.57)	(1.42)
<b>Common carp</b>	0.11	0.08	0.17
	(0.04)	(0.05)	(0.09)
<b>Mississippi silvery minnow</b>	1.07	0.08	3.36
	(0.59)	(0.05)	(1.98)
<b>Bighead carp</b>	0.10	0.13	0.06
	(0.07)	(0.09)	(0.06)
<b>Silver chub</b>	0.26	0.13	0.58
	(0.09)	(0.09)	(0.20)
<b>Emerald shiner</b>	59.33	36.21	113.14
	(10.17)	(8.58)	(27.42)
<b>River shiner</b>	1.70	1.38	2.44
	(0.45)	(0.58)	(0.64)
<b>Silverband shiner</b>	1.02	0.69	1.78
	(0.47)	(0.33)	(1.37)
<b>Sand shiner</b>	0.29	0.31	0.22
	(0.12)	(0.16)	(0.14)
<b>Channel shiner</b>	10.74	2.75	29.33
	(4.19)	(1.34)	(13.64)
<b>Unidentified shiner</b>	1.62	0.69	3.78
	(0.64)	(0.34)	(1.99)
<b>Bluntnose minnow</b>	0.02	0.02	0.03
	(0.02)	(0.02)	(0.03)
<b>Bullhead minnow</b>	0.19	0.04	0.53
	(0.09)	(0.03)	(0.29)
<b>Unidentified minnow</b>	0.03		0.08
	(0.02)		(0.06)
<b>River carpsucker</b>	0.18	0.02	0.56

	(0.08)	(0.02)	(0.25)
<b>Unidentified carpsucker</b>	0.21		0.69
	(0.19)		(0.64)
<b>Smallmouth buffalo</b>	0.07	0.06	0.08
	(0.03)	(0.04)	(0.06)
<b>Unidentified buffalo</b>	0.06		0.19
	(0.05)		(0.17)
<b>Golden redhorse</b>	0.01		0.03
	(0.01)		(0.03)
<b>Channel catfish</b>	0.15	0.13	0.19
	(0.05)	(0.06)	(0.10)
<b>Western mosquitofish</b>	0.65	0.23	1.64
	(0.29)	(0.09)	(0.94)
<b>Brook silverside</b>	0.31	0.27	0.39
	(0.10)	(0.11)	(0.21)
<b>White bass</b>	0.20	0.08	0.47
	(0.06)	(0.04)	(0.17)
<b>Orangespotted sunfish</b>	0.03		0.11
	(0.02)		(0.07)
<b>Bluegill</b>	0.18	0.15	0.25
	(0.07)	(0.08)	(0.14)
<b>Unidentified Lepomis</b>	0.07	0.06	0.08
	(0.04)	(0.05)	(0.05)
<b>Black crappie</b>	0.03	0.04	
	(0.02)	(0.03)	
<b>Western sand darter</b>	0.01	0.02	
	(0.01)	(0.02)	
<b>River darter</b>	0.09	0.08	0.11
	(0.04)	(0.05)	(0.08)
<b>Freshwater drum</b>	0.98	0.48	2.14

	(0.39)	(0.23)	(1.20)
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**Sampling strata:**

**MCBU - Main channel border, unstructured**

**SCB - Side channel border**

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**Table 13.4** Mean catch-per-unit-effort and (standard error) for fish collected by anchored trammel netting in Pool 26 of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.4](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	IMPO
<b>Paddlefish</b>	1.41	1.41
	(0.72)	(0.73)
<b>Common carp</b>	1.01	1.01
	(0.45)	(0.45)
<b>Silver carp</b>	0.17	0.17
	(0.17)	(0.17)
<b>Bighead carp</b>	0.81	0.81
	(0.30)	(0.31)
<b>Bigmouth buffalo</b>	0.17	0.17
	(0.17)	(0.17)
<b>Black buffalo</b>	0.34	0.34
	(0.21)	(0.21)
<b>Flathead catfish</b>	0.17	0.17
	(0.17)	(0.17)
<b>Freshwater drum</b>	0.51	0.51
	(0.51)	(0.51)

**Sampling stratum:  
IMPO - Impounded, offshore**

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**Table 15.4** Mean catch-per-unit-effort and (standard error) for fish collected by night electrofishing in Pool 26 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Longnose gar	0.17
	(0.17)
Shortnose gar	7.17
	(2.09)
Goldeye	0.33
	(0.21)
American eel	0.17
	(0.17)
Skipjack herring	0.33
	(0.21)
Gizzard shad	33.00
	(13.36)
Grass carp	0.17
	(0.17)
Common carp	21.67
	(8.35)
Silver chub	0.83
	(0.65)

<b>Emerald shiner</b>	3.17
	(1.64)
<b>River shiner</b>	0.17
	(0.17)
<b>Silverband shiner</b>	0.33
	(0.33)
<b>Bullhead minnow</b>	0.33
	(0.33)
<b>River carpsucker</b>	1.00
	(0.37)
<b>Quillback</b>	0.33
	(0.33)
<b>Smallmouth buffalo</b>	3.00
	(1.06)
<b>Bigmouth buffalo</b>	2.33
	(1.38)
<b>Black buffalo</b>	0.50
	(0.34)
<b>Shorthead redhorse</b>	0.67
	(0.67)
<b>Channel catfish</b>	1.50
	(0.67)
<b>Flathead catfish</b>	1.83
	(1.47)
<b>Brook silverside</b>	0.17
	(0.17)
<b>White bass</b>	11.67
	(3.21)
<b>Yellow bass</b>	1.50
	(0.72)

<b>Orangespotted sunfish</b>	0.17
	(0.17)
<b>Bluegill</b>	10.83
	(5.46)
<b>Largemouth bass</b>	1.00
	(0.52)
<b>White crappie</b>	2.50
	(0.85)
<b>Black crappie</b>	1.00
	(0.82)
<b>Sauger</b>	0.67
	(0.42)
<b>Freshwater drum</b>	7.67
	(3.54)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 21.4** Mean catch-per-unit-effort and (standard error) for fish collected by bottom trawling in Pool 26 of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Shovelnose sturgeon	2.88
	(1.59)
Shortnose gar	0.25
	(0.25)
Gizzard shad	0.50
	(0.27)
Speckled chub	1.75
	(0.90)
Silver chub	1.00
	(0.50)
Emerald shiner	0.25
	(0.25)
Blue catfish	2.13
	(1.41)
Channel catfish	7.50
	(3.58)
Stonecat	0.13
	(0.13)

<b>Flathead catfish</b>	0.13
	(0.13)
<b>Sauger</b>	0.13
	(0.13)
<b>Freshwater drum</b>	10.00
	(5.04)

**Sampling stratum:  
TWZ - Tailwater**

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## Pool 26 Length Distributions

Length distributions (length) as a percentage of catch (percent) for selected species of interest collected by the Long Term Resource Monitoring Program. Fish species are listed in phylogenetical order following Robins et al. (1991) nomenclature. In some instances, meaningful biological interpretation of these distributions may be limited by small sample size or size selectivity of the gear (Anderson and Neumann 1996). Some fish histograms with small sample sizes (<100) are included because of local interest, while others were omitted (reach dependent). Scientific names for the species listed can be found in [Table 1](#).

Figure*	Species	Method
<a href="#">2.4</a>	Gizzard shad	Electrofishing
<a href="#">3.4</a>	Common carp	Electrofishing
<a href="#">4.4</a>	Smallmouth buffalo	Electrofishing
<a href="#">5.4</a>	Smallmouth buffalo	Hoop netting
<a href="#">6.4</a>	Channel catfish	Electrofishing
<a href="#">7.4</a>	Channel catfish	Hoop netting
<a href="#">10.4</a>	White bass	Electrofishing
<a href="#">11.4</a>	Bluegill	Electrofishing
<a href="#">12.4</a>	Bluegill	Fyke netting
<a href="#">13.4</a>	Largemouth bass	Electrofishing
<a href="#">14.4</a>	White crappie	Fyke netting
<a href="#">15.4</a>	Black crappie	Fyke netting
<a href="#">16.4</a>	Sauger	Electrofishing



<a href="#">17.4</a>	Walleye	Electrofishing
<a href="#">18.4</a>	Freshwater drum	Electrofishing
<a href="#">19.4</a>	Freshwater drum	Fyke netting
*Figure numbers are not always in sequence because some species were not caught in some study areas. Figure numbers for each species and gear type are consistent among study areas.		

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Content manager: [Jennie Sauer](#)

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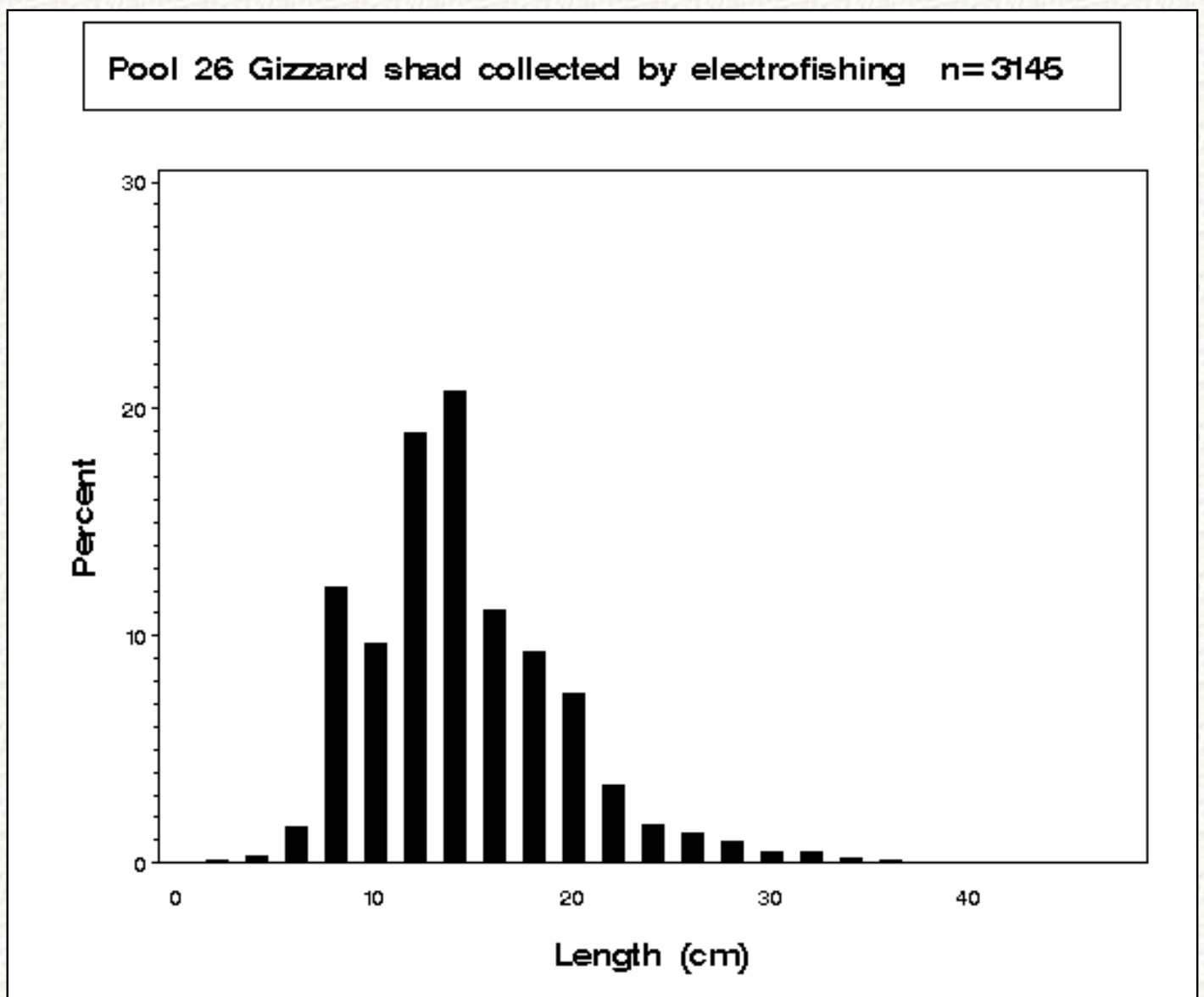
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**Figure 2.4** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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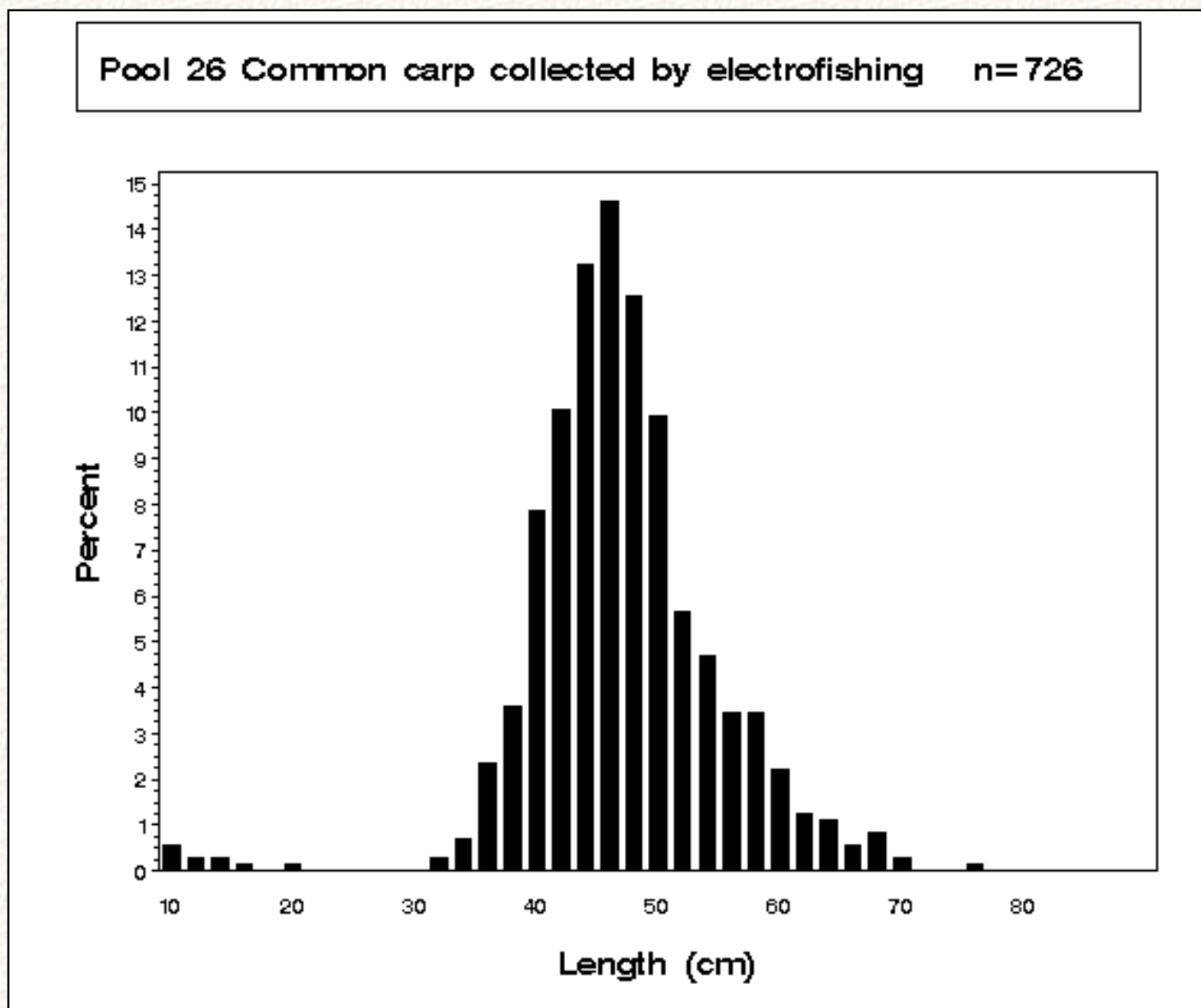
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**Figure 3.4** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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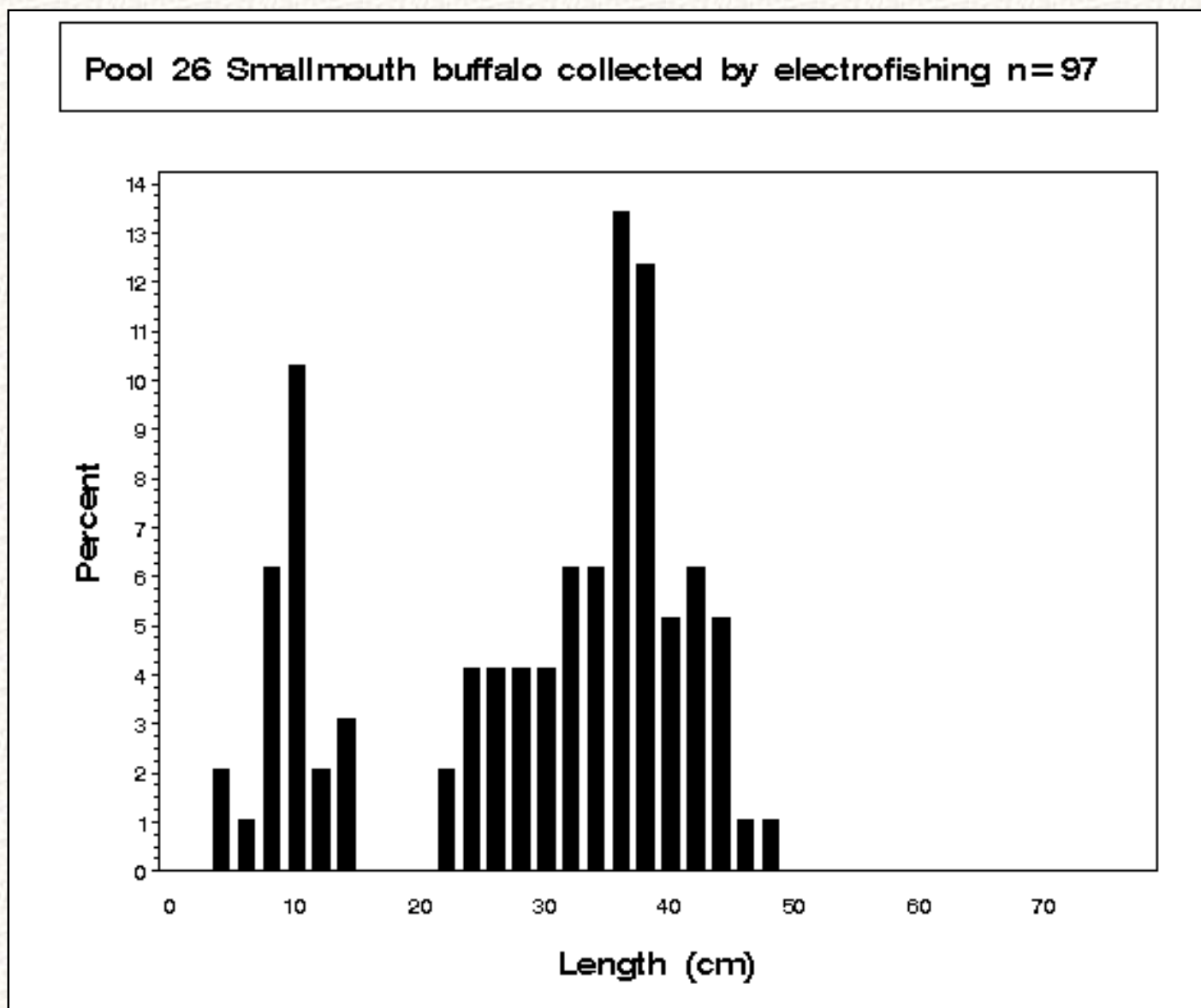
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**Figure 4.4** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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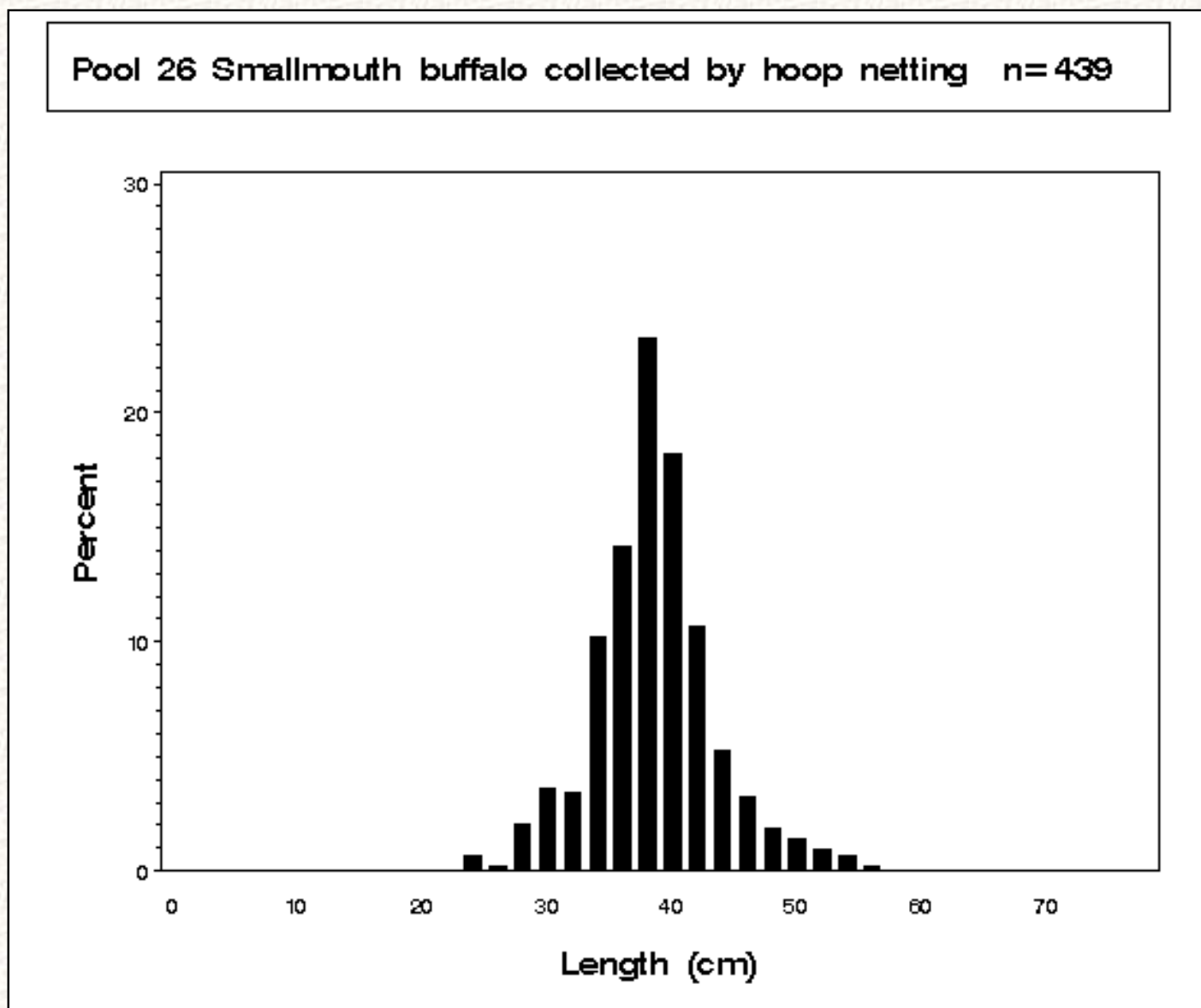
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**Figure 5.4** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.





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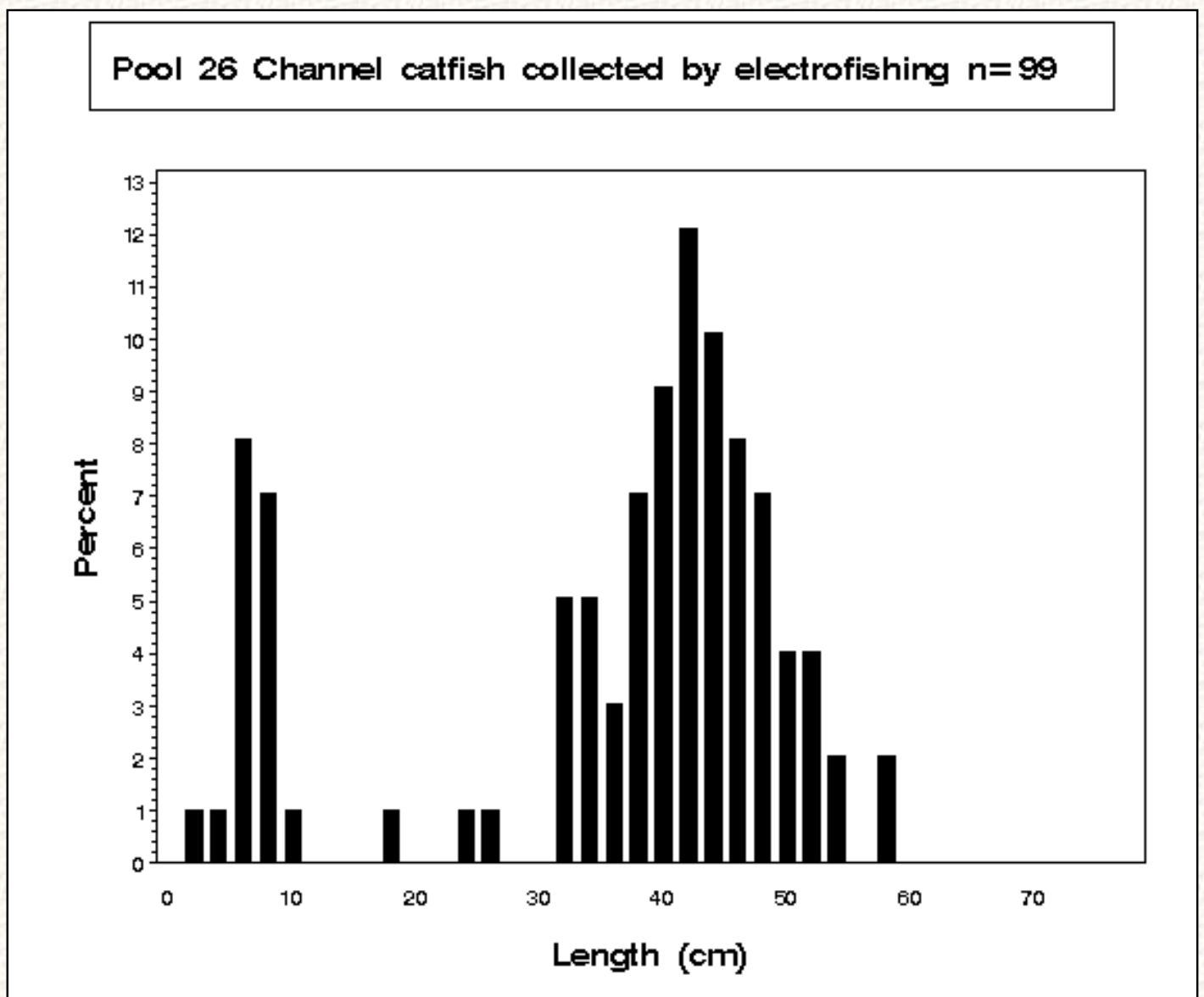
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**Figure 6.4** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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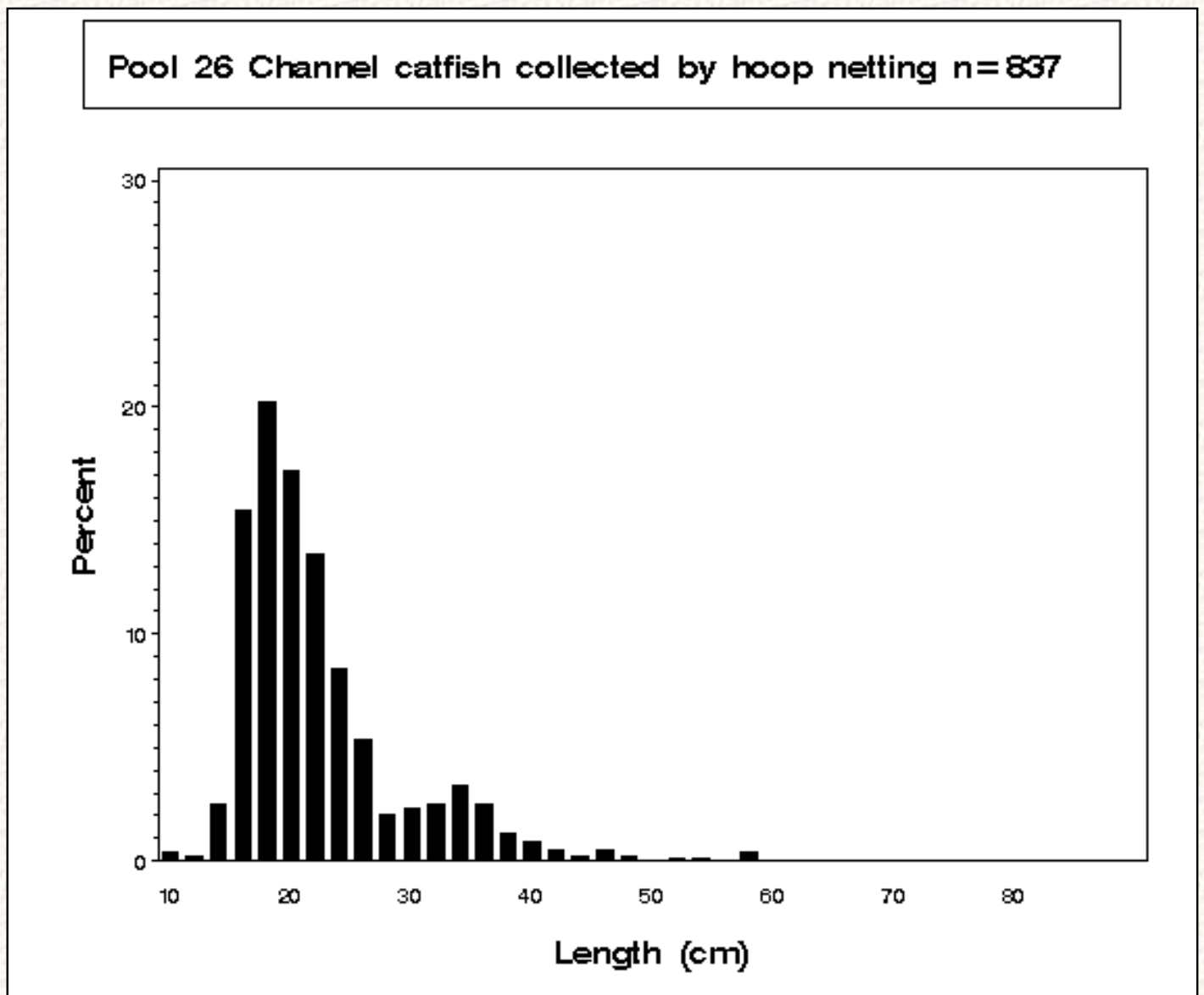
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**Figure 7.4** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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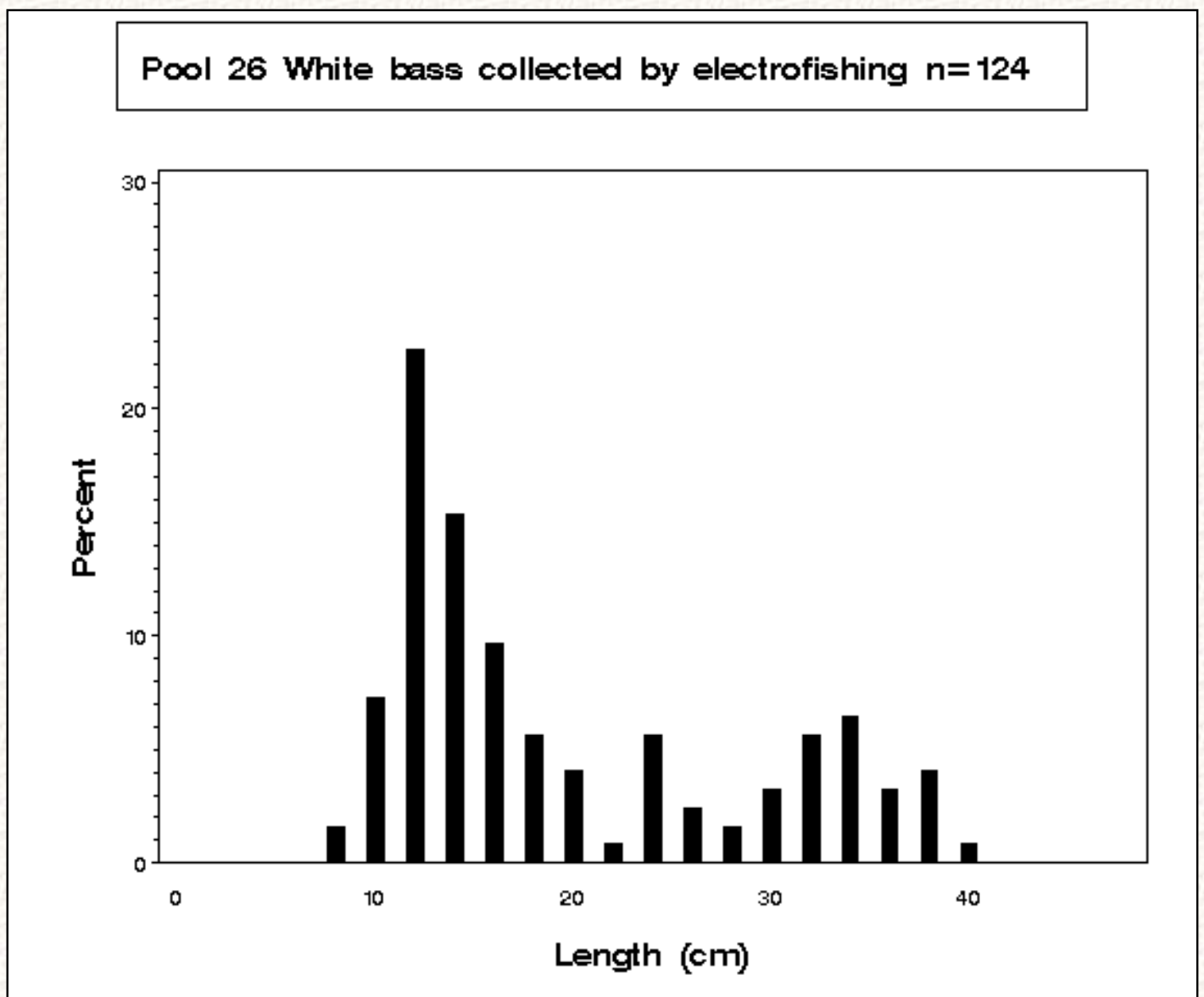
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**Figure 10.4** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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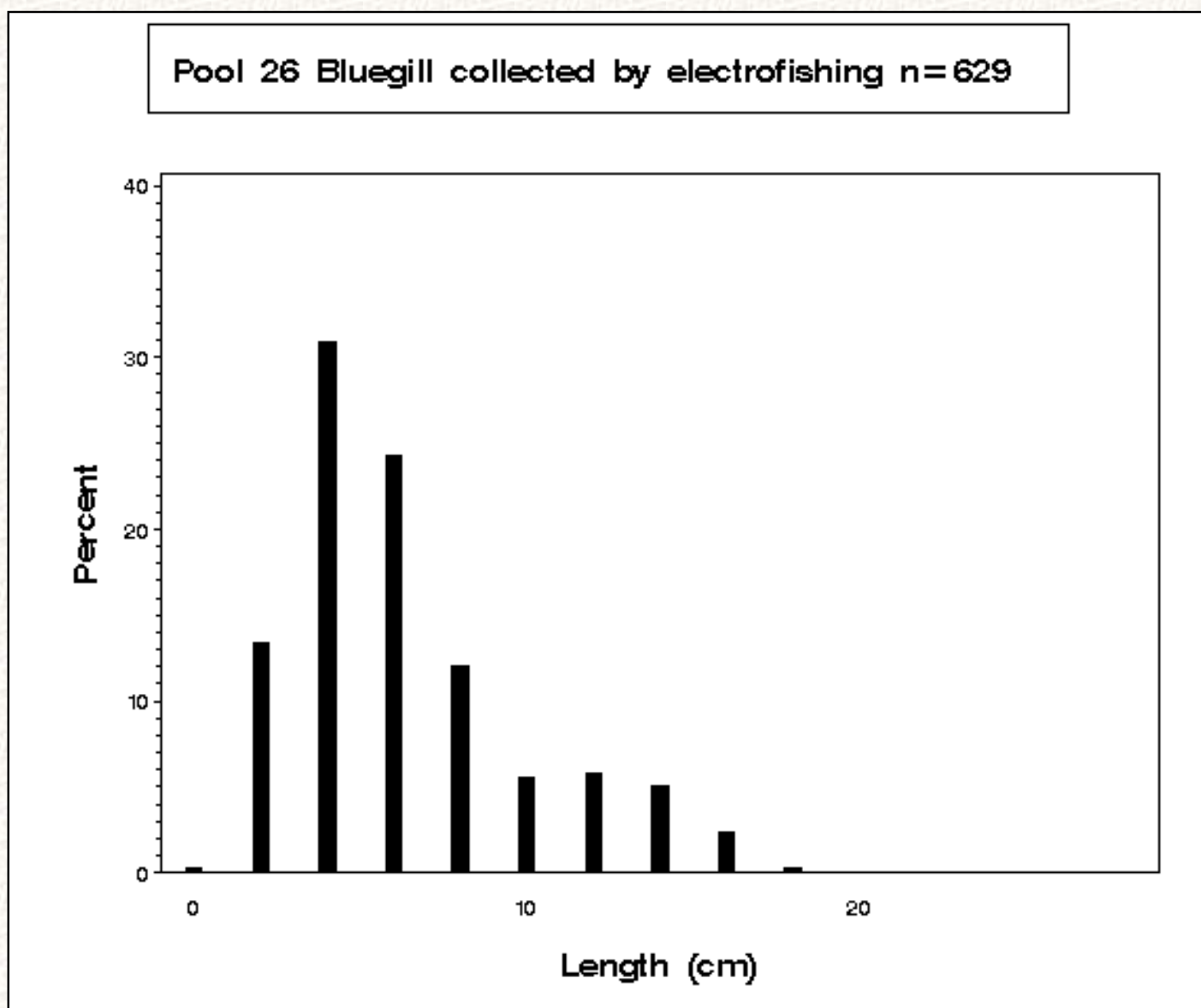
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**Figure 11.4** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.





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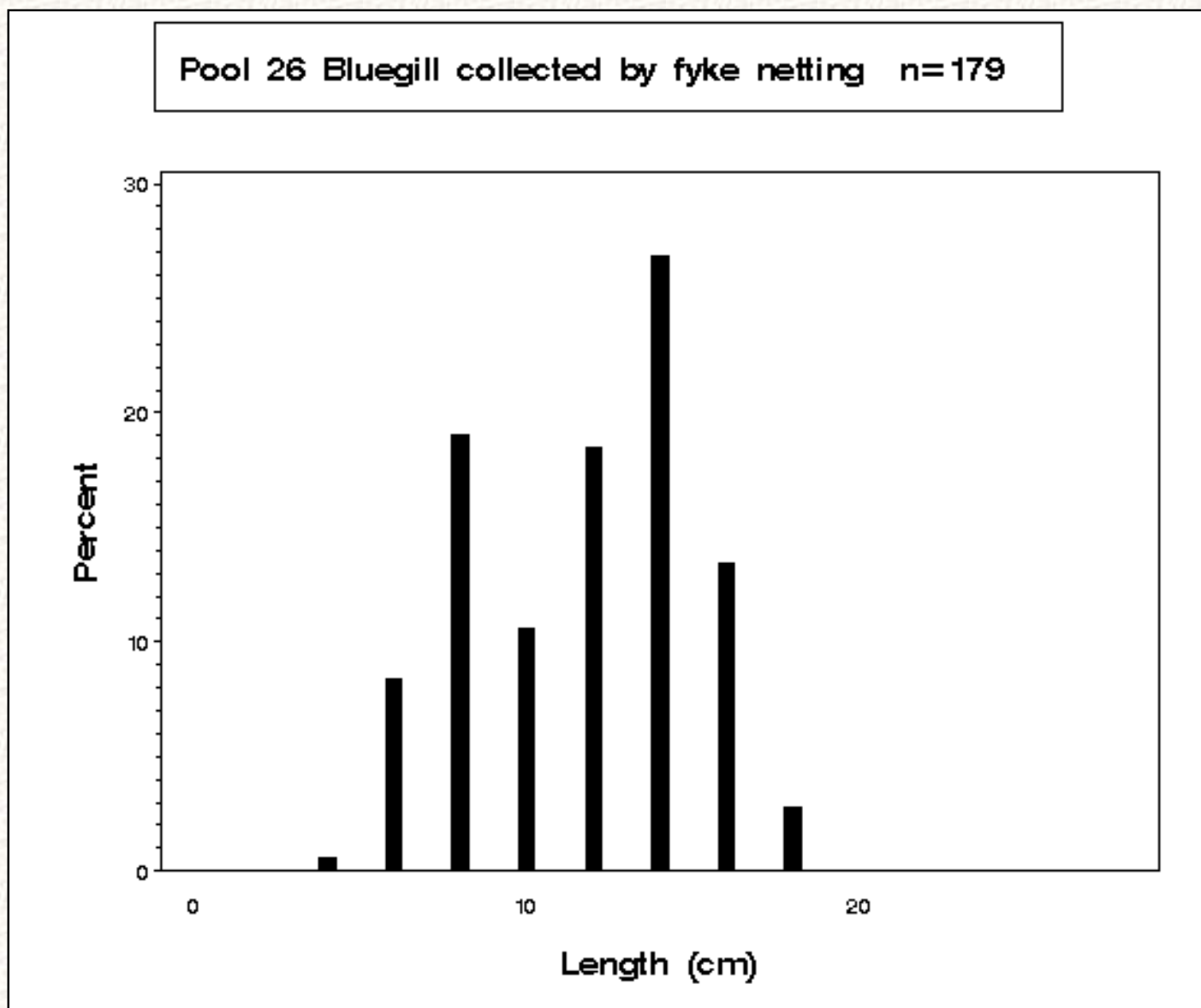
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**Figure 12.4** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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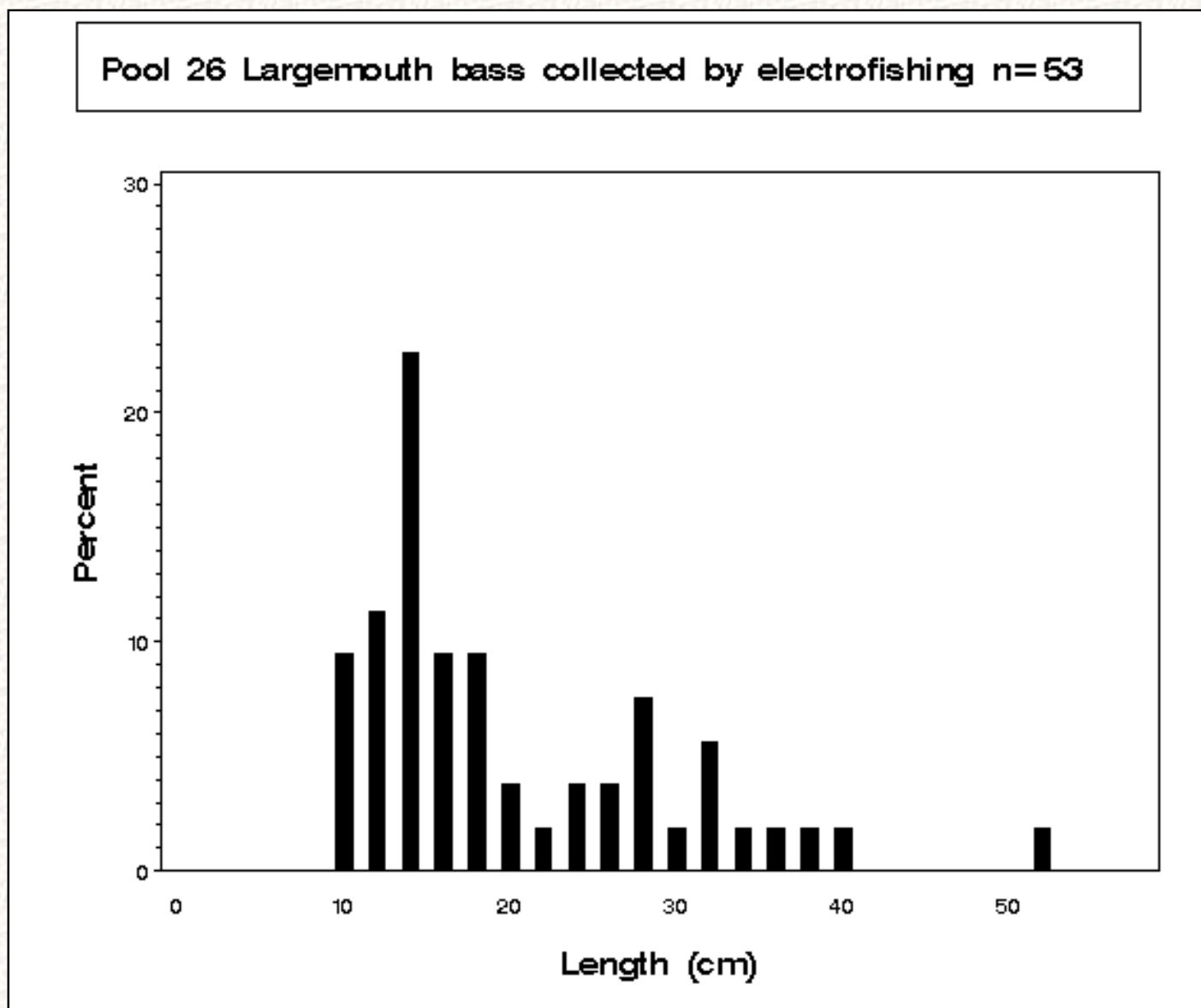
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**Figure 13.4** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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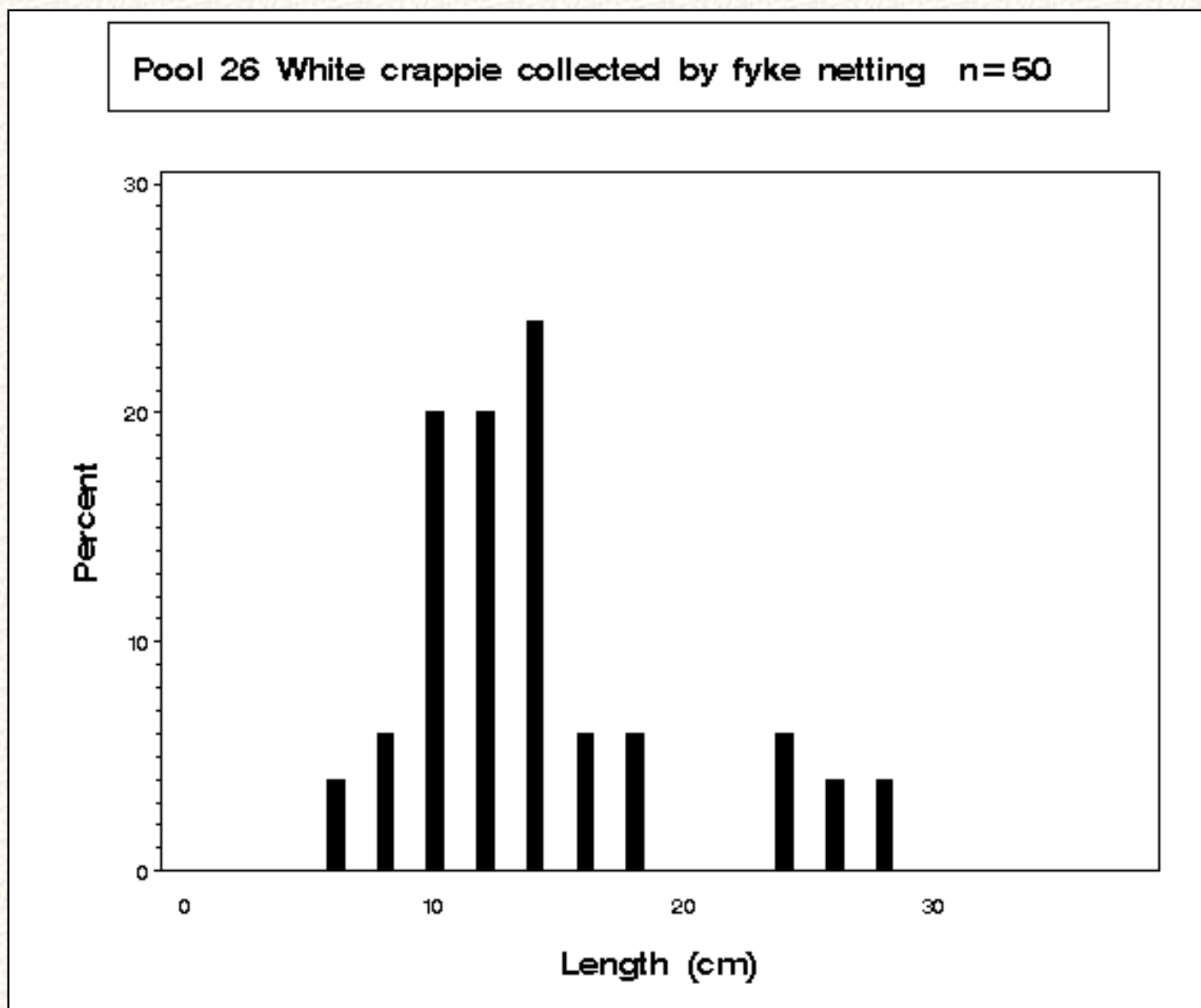
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**Figure 14.4** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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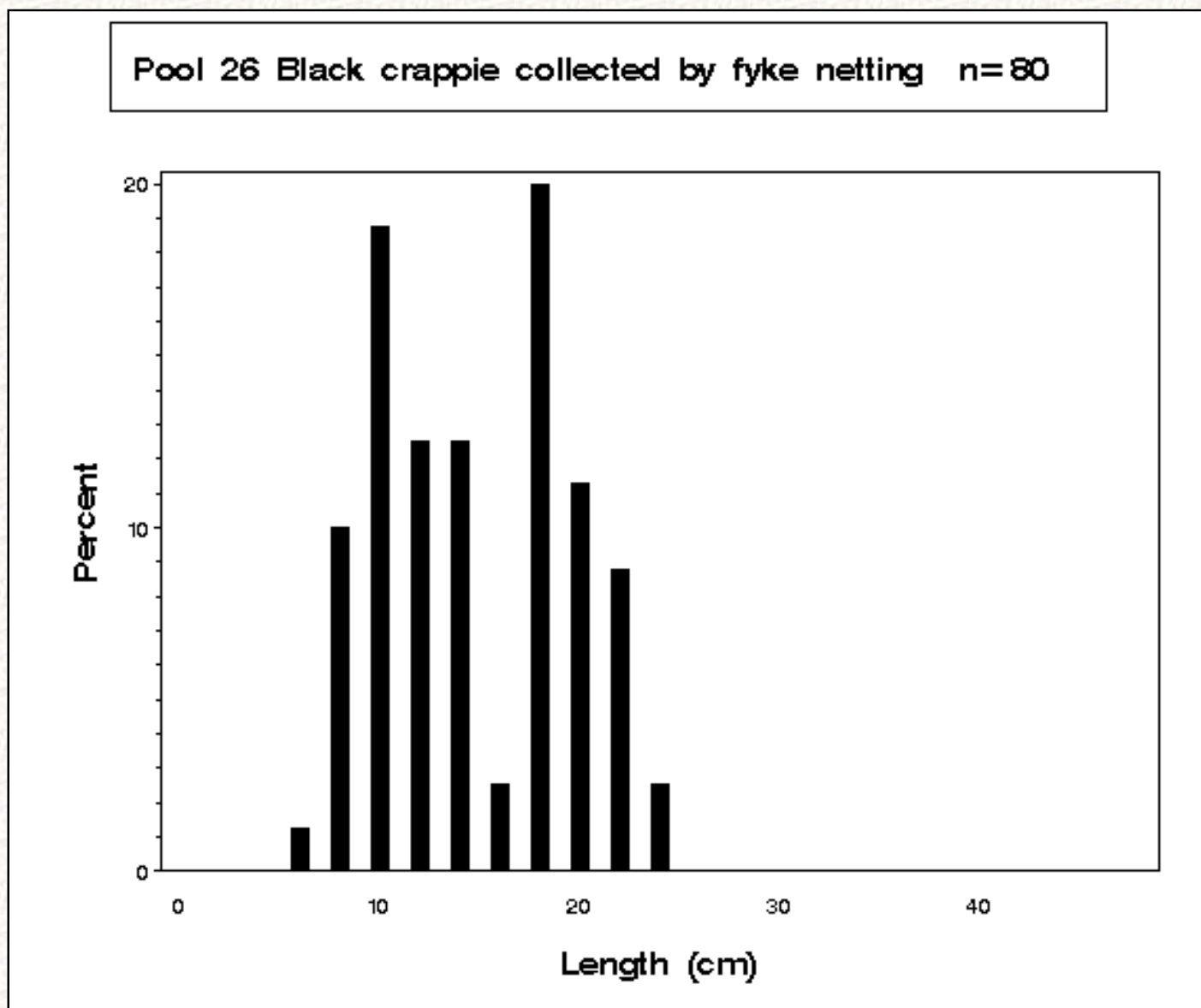
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**Figure 15.4** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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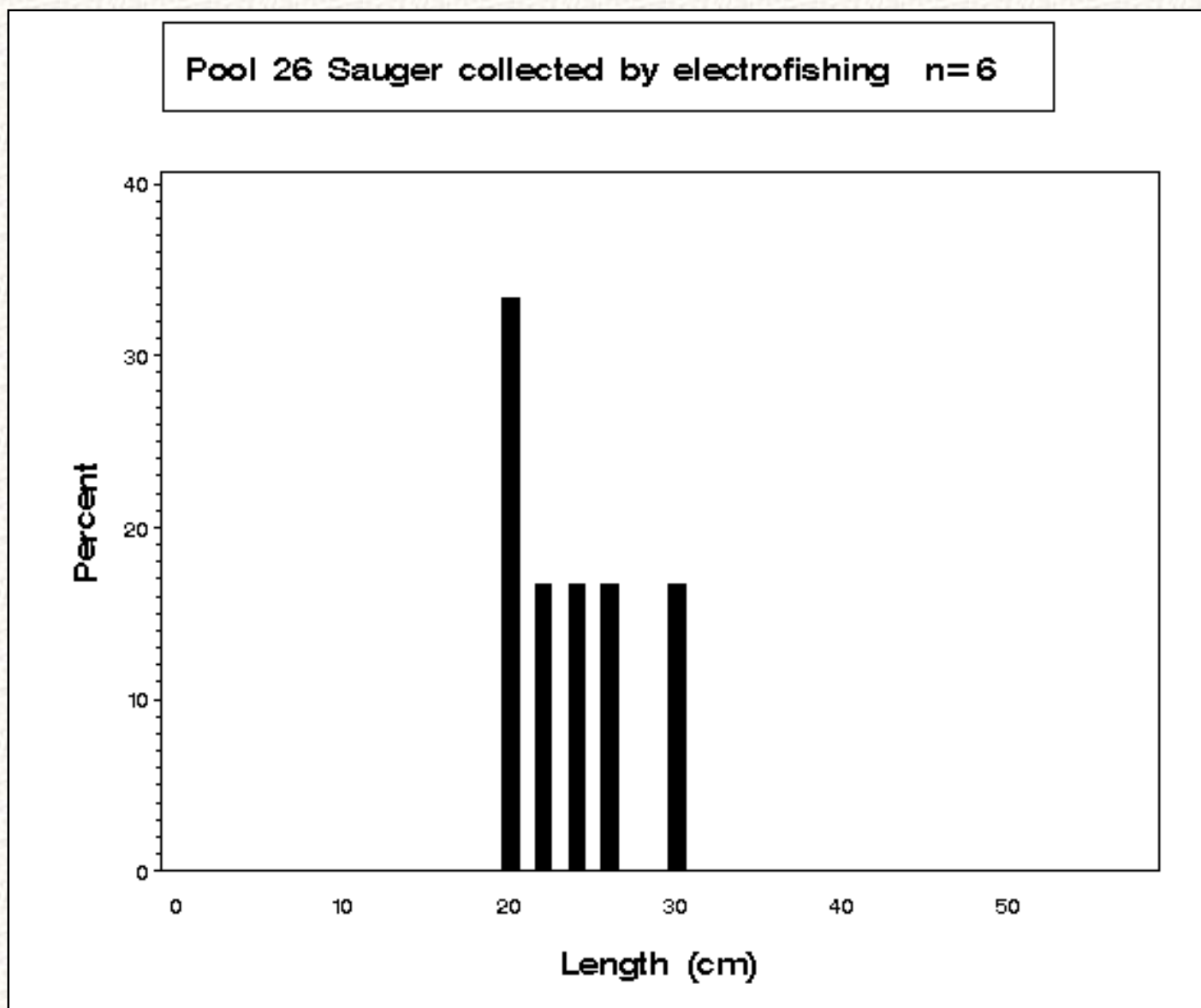
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**Figure 16.4** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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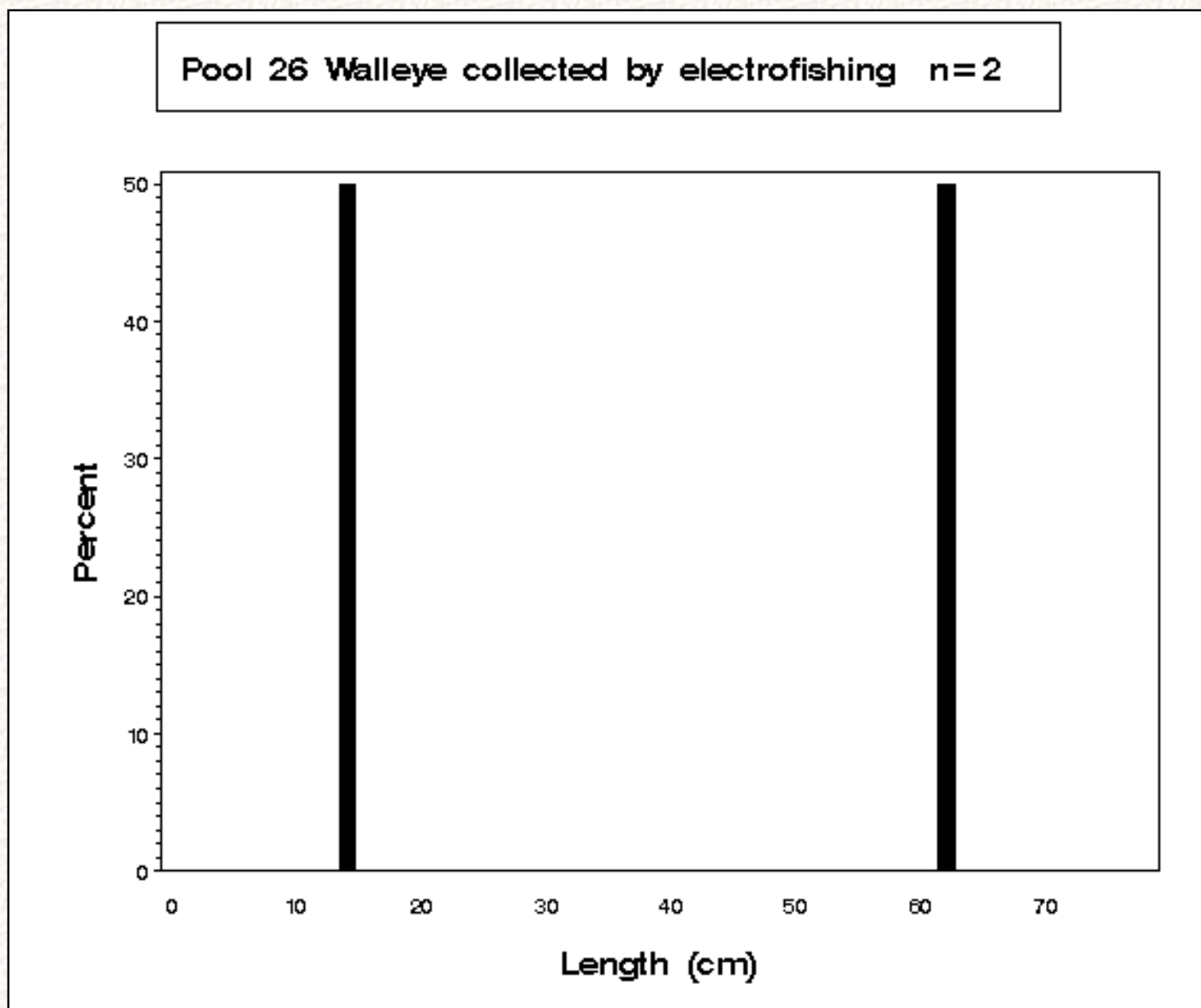
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**Figure 17.4** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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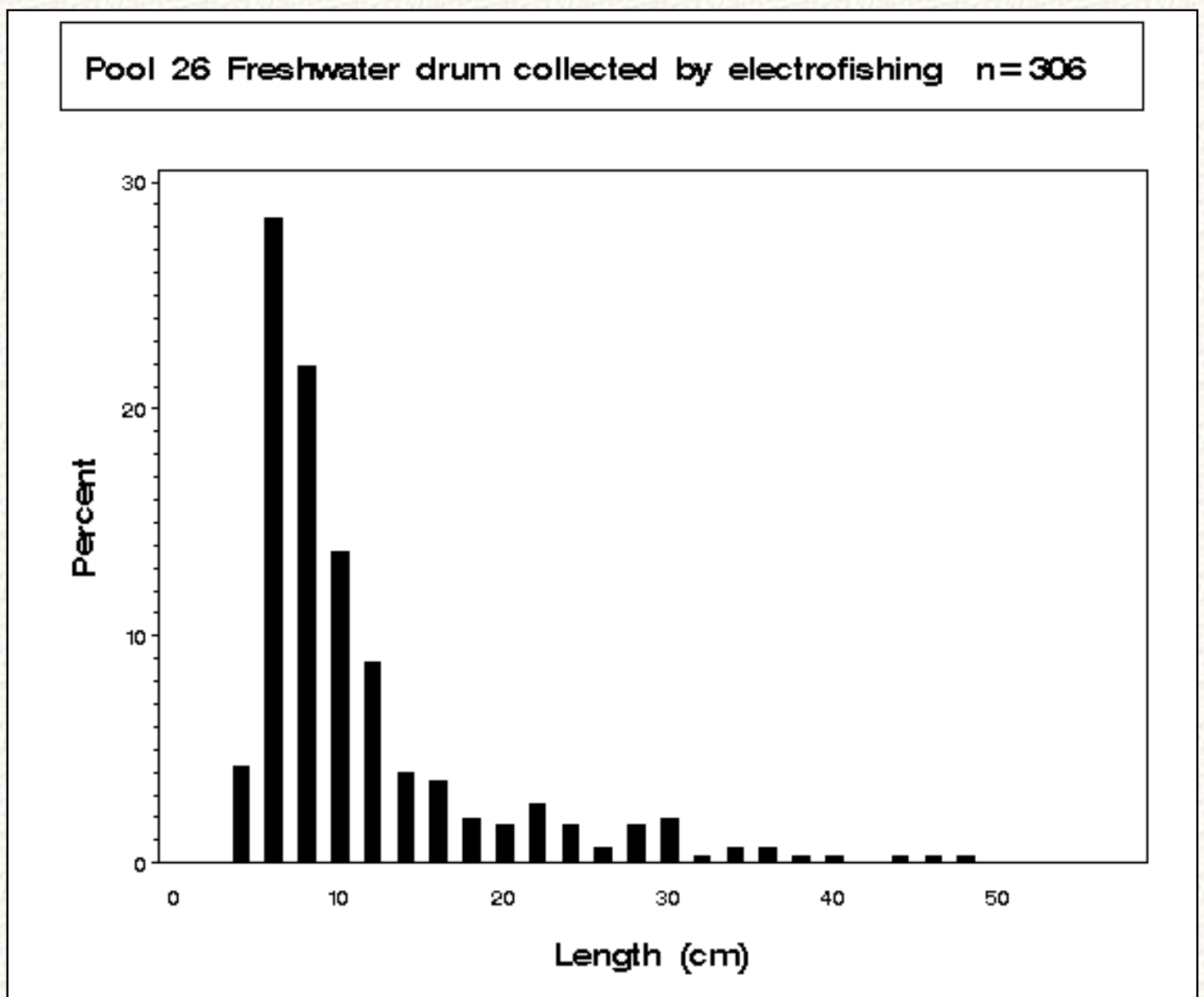
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**Figure 18.4** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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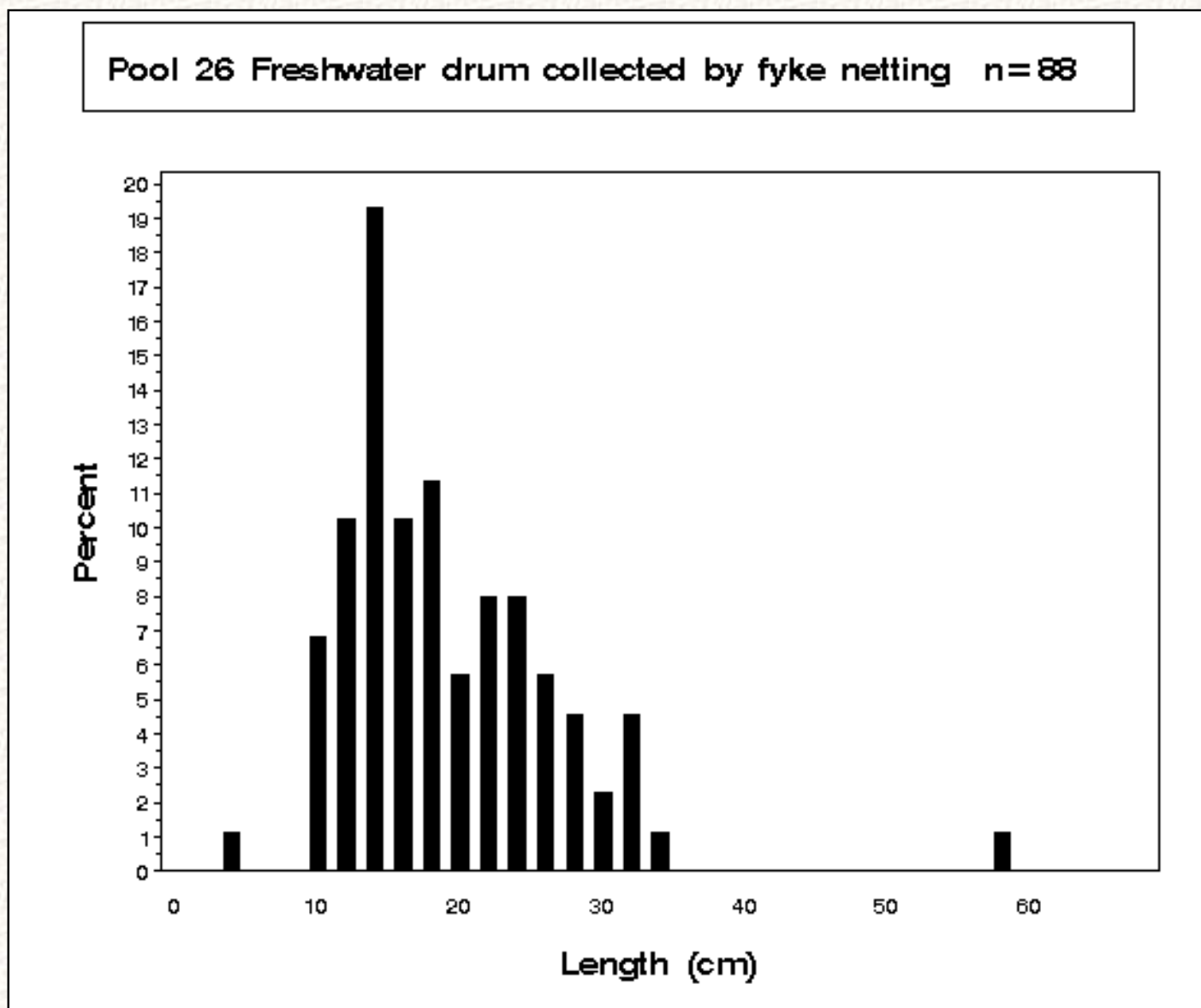


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**Figure 19.4** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by fyke netting in Pool 26 of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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## Open River, Upper Mississippi River 2000 Fish Collection Summary

This report is a bullet summary of the [Long Term Resource Monitoring Program's](#) (LTRMP) fish collection efforts conducted by the [Open River Field Station](#) on the [Open River](#), Upper Mississippi River during 2000. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 315 fish collections were conducted using eight gear types ([Table 2.5](#)).
- Gear allocations among strata varied for all three sampling periods because of low and high water extremes ([Table 2.5](#); [Figure 1.5](#)).
- Of the 315 fish collections, 261 were from randomly selected sites. Fifty-four collections were made at fixed sites.
- Side channel border; main channel border, unstructured; and main channel border, and wing dam strata received the most sampling effort ([Table 2.5](#)).
- 11,533 fish were collected representing 61 species ([Table 3.5](#)).
- Historically, 129 fish species have been collected from the Open River (Pitlo et al. 1995).
- The LTRMP species total for the Open River before the 2000 season was 102; striped mullet and silver carp were collected and added as new species during 2000. Striped mullet collections are unusual in the Open River. The silver carp is an accidental hatchery released exotic species ([Table 3.5](#)).
- Five Missouri-listed species of concern were collected: paddlefish, Mississippi silvery minnow, silver chub, blue sucker, and striped mullet ([Table 3.5](#)).
- Mean catch-per-unit-effort and standard effort for fish collected by gears using

stratified random ([Tables 4.5-13.5](#)) and fixed-site sampling ([Tables 14.5-20.5](#)) for each stratum are shown.

- Length distributions for selected species of fish are shown in [Figures 2.5 to 19.5](#).

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**Table 2.5** Allocation of fish sampling effort among strata in the Open River section of the Upper Mississippi River during 2000. Table entries are numbers of successfully completed standardized monitoring collections.

**Sampling period = 1: June 15–July 31**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing			8	5				2		15
Fyke net			4	1				2		7
Gill net			2							2
Large hoop net			7	4	1			2		14
Small hoop net			7	5	1			2		15
Mini fyke net			8	5	1			2		16
Seine			8	8						16
Trawling				1						1
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>44</b>	<b>29</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>86</b>

**Sampling period = 2: August 1–September 14**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing			8	5	4			2		19
Fyke net			3	1				2		6
Gill net			4	2	2					8
Large hoop net			8	5	4			2		19
Small hoop net			8	5	4			2		19
Mini fyke net			8	5	4			2		19
Seine			15	12						27
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>35</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>0</b>	<b>117</b>

**Sampling period = 3: September 15–October 31**

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing			8	5	4			2		19
Fyke net			4	1				2		7
Gill net			4	2	2					8
Large hoop net			8	5	4			2		19
Small hoop net			8	5	4			2		19
Mini fyke net			8	5	4			2		19
Seine			8	12						20
Subtotal	0	0	48	35	18	0	0	10	0	111
Total	0	0	146	99	39	0	0	30	0	314

### Sampling strata:

**BWCS - Backwater, contiguous, shoreline**

**BWCO - Backwater, contiguous, offshore**

**SCB - Side channel border**

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**IMPS - Impounded, shoreline**

**IMPO - Impounded, offshore**

**TRI - Tributary mouth**

**TWZ - Tailwater**

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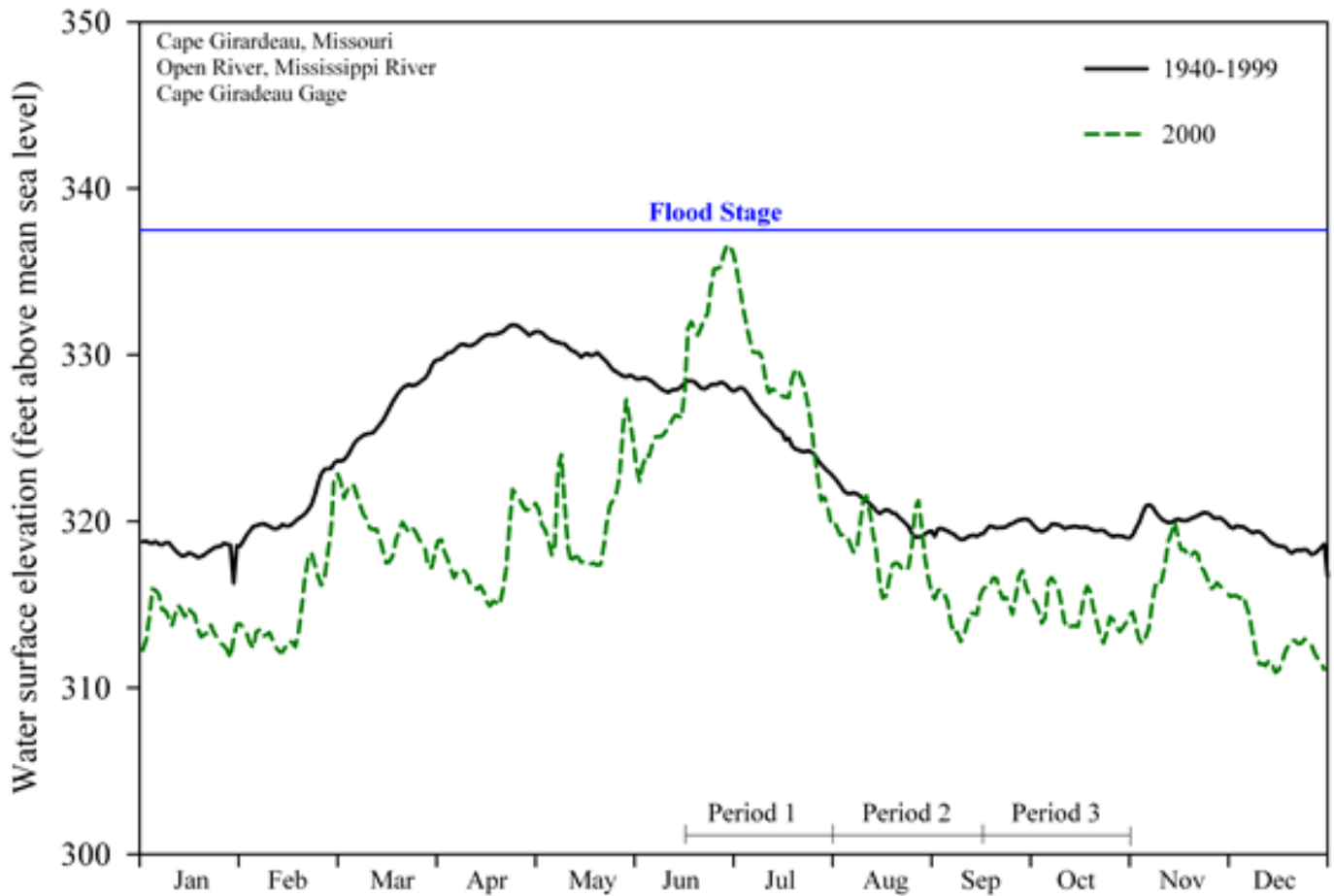


Figure 1.5 Daily water surface elevation from Cape Girardeau Gage for the Mississippi River, Open River, during 2000 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski et al. 1995).

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**Table 3.5** Total catches, by gear type, of fish collected in the Open River section of the Upper Mississippi River during 2000. See [Table 2.5](#) for the list of sampling gears actually deployed in this study reach.

Species	Common name	Scientific name	D	N	F	X	M	Y	S	HS	HL	G	TA	T	Total
1	Chestnut lamprey	<i>Ichthyomyzon castaneus</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
2	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	2	28	-	-	30
3	Paddlefish	<i>Polyodon spathula</i>	1	-	-	-	-	-	-	-	-	7	-	-	8
4	Spotted gar	<i>Lepisosteus oculatus</i>	4	-	-	-	-	-	-	-	-	-	-	-	4
5	Longnose gar	<i>L. osseus</i>	1	-	-	-	2	-	1	-	1	-	-	-	5
6	Shortnose gar	<i>L. platostomus</i>	54	-	80	-	12	-	2	3	5	2	-	-	158
7	Bowfin	<i>Amia calva</i>	8	-	1	-	-	-	-	-	1	2	-	-	12
8	Goldeye	<i>Hiodon alosoides</i>	26	-	-	-	10	-	23	-	-	-	-	-	59
9	American eel	<i>Anguilla rostrata</i>	3	-	-	-	-	-	-	-	-	1	-	-	4
10	Skipjack herring	<i>Alosa chrysochloris</i>	24	-	-	-	8	-	2	-	-	1	-	-	35
11	Gizzard shad	<i>Dorosoma cepedianum</i>	2850	-	25	-	41	-	358	-	8	11	-	-	3293
12	Threadfin shad	<i>D. petenense</i>	192	-	1	-	20	-	17	-	-	-	-	-	230
13	Grass carp	<i>Ctenopharyngodon idella</i>	-	-	-	-	3	-	-	-	3	-	-	-	6
14	Red shiner	<i>Cyprinella lutrensis</i>	103	-	-	-	139	-	580	-	-	-	-	-	822
15	Spotfin shiner	<i>C. spiloptera</i>	-	-	-	-	5	-	1	-	-	-	-	-	6
16	Blacktail shiner	<i>C. venusta</i>	6	-	-	-	10	-	-	-	-	-	-	-	16
17	Common carp	<i>Cyprinus carpio</i>	214	-	27	-	99	-	1	66	163	27	-	-	597
18	Mississippi silvery minnow	<i>Hybognathus nuchalis</i>	2	-	-	-	-	-	4	-	-	-	-	-	6

19	Silver carp	<i>Hypophthalmichthys molitrix</i>	4	-	-	-	13	-	10	-	-	5	-	-	32
20	Bighead carp	<i>H. nobilis</i>	1	-	-	-	19	-	4	-	1	6	-	-	31
21	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	-	-	-	21	-	29	-	-	-	-	-	50
22	Silver chub	<i>M. storeriana</i>	1	-	-	-	-	-	1	-	-	-	-	-	2
23	Emerald shiner	<i>Notropis atherinoides</i>	733	-	-	-	311	-	958	-	-	-	-	-	2002
24	River shiner	<i>N. blennioides</i>	2	-	-	-	10	-	-	-	-	-	-	-	12
25	Silverband shiner	<i>N. shumardi</i>	13	-	-	-	91	-	102	-	-	-	-	-	206
26	Sand shiner	<i>N. stramineus</i>	-	-	-	-	-	-	2	-	-	-	-	-	2
27	Channel shiner	<i>N. wickliffi</i>	107	-	-	-	560	-	208	-	-	-	-	-	875
28	Pugnose minnow	<i>Opsopoeodus emiliae</i>	-	-	-	-	-	-	1	-	-	-	-	-	1
29	Bluntnose minnow	<i>Pimephales notatus</i>	3	-	-	-	11	-	-	-	-	-	-	-	14
30	Bullhead minnow	<i>P. vigilax</i>	4	-	-	-	4	-	2	-	-	-	-	-	10
31	River carpsucker	<i>Carpoides carpio</i>	90	-	12	-	40	-	124	3	116	12	-	-	397
32	Blue sucker	<i>Cycleptus elongatus</i>	2	-	-	-	-	-	-	-	-	1	-	-	3
33	Smallmouth buffalo	<i>Ictiobus bubalus</i>	32	-	3	-	-	-	-	2	145	9	-	-	191
34	Bigmouth buffalo	<i>I. cyprinellus</i>	22	-	1	-	-	-	-	1	20	1	-	-	45
35	Black buffalo	<i>I. niger</i>	16	-	-	-	13	-	-	4	66	4	-	-	103
36	Unidentified buffalo	<i>Ictiobus</i> sp.	-	-	-	-	-	-	2	-	-	-	-	-	2
37	Shorthead redhorse	<i>Moxostoma macrolepidotum</i>	6	-	-	-	-	-	-	-	-	-	-	-	6
38	Yellow bullhead	<i>Ameiurus natalis</i>	-	-	-	-	3	-	-	-	-	-	-	-	3
39	Blue catfish	<i>Ictalurus furcatus</i>	10	-	1	-	-	-	-	8	-	20	-	-	39
40	Channel catfish	<i>I. punctatus</i>	76	-	18	-	122	-	57	361	121	19	-	-	774
41	Freckled madtom	<i>Noturus nocturnus</i>	3	-	-	-	1	-	-	-	-	-	-	-	4
42	Flathead catfish	<i>Pylodictis olivaris</i>	19	-	2	-	3	-	-	14	17	4	-	-	59

43	Blackstripe topminnow	<i>Fundulus notatus</i>	4	-	-	-	6	-	-	-	-	-	-	-	10
44	Blackspotted topminnow	<i>F. olivaceus</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
45	Western mosquitofish	<i>Gambusia affinis</i>	2	-	-	-	10	-	7	-	-	-	-	-	19
46	Brook silverside	<i>Labidesthes sicculus</i>	38	-	-	-	3	-	36	-	-	-	-	-	77
47	Inland silverside	<i>Menidia beryllina</i>	14	-	-	-	8	-	23	-	-	-	-	-	45
48	White bass	<i>Morone chrysops</i>	48	-	30	-	28	-	9	3	9	-	-	-	127
49	Green sunfish	<i>Lepomis cyanellus</i>	10	-	-	-	-	-	-	-	-	-	-	-	10
50	Warmouth	<i>L. gulosus</i>	2	-	-	-	2	-	-	-	-	-	-	-	4
51	Orangespotted sunfish	<i>L. humilis</i>	42	-	-	-	8	-	-	-	-	-	-	-	50
52	Bluegill	<i>L. macrochirus</i>	24	-	2	-	133	-	4	1	-	-	-	-	164
53	Longear sunfish	<i>L. megalotis</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
54	Smallmouth bass	<i>Micropterus dolomieu</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
55	Spotted bass	<i>M. punctulatus</i>	45	-	-	-	8	-	3	-	-	-	-	-	56
56	Largemouth bass	<i>M. salmoides</i>	8	-	-	-	-	-	-	-	-	-	-	-	8
57	White crappie	<i>Pomoxis annularis</i>	2	-	6	-	1	-	-	-	-	-	-	-	9
58	Black crappie	<i>P. nigromaculatus</i>	-	-	-	-	4	-	1	-	-	-	-	-	5
59	Logperch	<i>Percina caprodes</i>	-	-	-	-	-	-	1	-	-	-	-	-	1
60	Sauger	<i>Stizostedion canadense</i>	11	-	2	-	-	-	-	1	1	-	-	-	15
61	Freshwater drum	<i>Aplodinotus grunniens</i>	176	-	57	-	362	-	59	7	47	9	-	-	717
62	Striped mullet	<i>Mugil cephalus</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
63	Larval fish	Unidentified	1	-	-	-	261	-	4	-	-	-	-	-	266
			<b>5068</b>	<b>0</b>	<b>268</b>	<b>0</b>	<b>2405</b>	<b>0</b>	<b>2636</b>	<b>474</b>	<b>726</b>	<b>169</b>	<b>0</b>	<b>0</b>	<b>11746</b>

**Sampling gears:****D - Day electrofishing****N - Night electrofishing****F - Fyke netting****X - Tandem fyke netting**

- M - Mini fyke netting**
- Y - Tandem mini fyke netting**
- S - Seining**
- HS - Small hoop netting**
- HL - Large hoop netting**
- G - Gill netting**
- TA - Trammel netting**
- T- Trawling**

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## Open River Tables

Table*	Stratified Random Sampling
<a href="#">4.5</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">6.5</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">8.5</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">10.5</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">11.5</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">12.5</a>	Mean catch-per-unit-effort for fish collected by seining
<a href="#">13.5</a>	Mean catch-per-unit-effort for fish collected by gill netting
	Fixed-site Sampling
<a href="#">14.5</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">16.5</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">17.5</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">18.5</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">19.5</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">20.5</a>	Mean catch-per-unit-effort for fish collected by seining

\*Table numbers are not always in sequence because some gears were not fished in some study areas. Table numbers for each gear type are consistent among study areas.

Content manager: [Jennie Sauer](#)

*Last updated on August 24, 2004*

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**Table 4.5** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in Open River of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.5](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	MCBW	SCB
<b>Chestnut lamprey</b>	0.08	0.08		0.04
	(0.07)	(0.08)		(0.04)
<b>Paddlefish</b>	0.00			0.04
	(0.00)			(0.04)
<b>Longnose gar</b>	0.07	0.08		
	(0.07)	(0.08)		
<b>Shortnose gar</b>	1.02	1.00	0.38	1.21
	(0.31)	(0.35)	(0.18)	(0.29)
<b>Bowfin</b>	0.01			0.13
	(0.01)			(0.09)
<b>Goldeye</b>	0.83	0.92	1.00	0.21
	(0.25)	(0.29)	(0.53)	(0.12)
<b>American eel</b>	0.01		0.13	0.08
	(0.01)		(0.13)	(0.06)
<b>Skipjack herring</b>	0.63	0.67	0.38	0.42
	(0.36)	(0.41)	(0.18)	(0.21)
<b>Gizzard shad</b>	37.31	34.75	81.13	52.54

	(14.16)	(16.18)	(33.56)	(10.96)
<b>Threadfin shad</b>	7.50	8.33	6.50	1.46
	(6.87)	(7.88)	(3.77)	(0.78)
<b>Red shiner</b>	0.56	0.08	0.38	4.08
	(0.22)	(0.08)	(0.26)	(1.75)
<b>Blacktail shiner</b>	0.02			0.21
	(0.02)			(0.21)
<b>Common carp</b>	3.12	3.17	5.13	2.58
	(1.14)	(1.30)	(1.93)	(0.66)
<b>Mississippi silvery minnow</b>	0.01			0.08
	(0.01)			(0.06)
<b>Silver carp</b>	0.01			0.13
	(0.01)			(0.07)
<b>Bighead carp</b>	0.00			0.04
	(0.00)			(0.04)
<b>Silver chub</b>	0.00			0.04
	(0.00)			(0.04)
<b>Emerald shiner</b>	10.39	8.83	10.13	21.88
	(2.94)	(3.23)	(5.08)	(7.21)
<b>River shiner</b>	0.01			0.08
	(0.01)			(0.08)
<b>Silverband shiner</b>	0.27	0.25		0.42
	(0.12)	(0.13)		(0.26)
<b>Channel shiner</b>	1.05	0.67	0.38	3.96
	(0.29)	(0.28)	(0.26)	(1.31)
<b>Bluntnose minnow</b>	0.01			0.13
	(0.01)			(0.09)
<b>Bullhead minnow</b>	0.00			0.04
	(0.00)			(0.04)
<b>River carpsucker</b>	1.44	1.25	0.50	2.88



	(0.60)	(0.68)	(0.27)	(1.04)
<b>Blue sucker</b>	0.01			0.08
	(0.01)			(0.06)
<b>Smallmouth buffalo</b>	0.94	1.00	0.25	0.54
	(0.44)	(0.51)	(0.16)	(0.23)
<b>Bigmouth buffalo</b>	0.20	0.17	0.25	0.46
	(0.15)	(0.17)	(0.16)	(0.20)
<b>Black buffalo</b>	0.75	0.83		0.21
	(0.26)	(0.30)		(0.12)
<b>Shorthead redhorse</b>	0.02			0.21
	(0.02)			(0.17)
<b>Blue catfish</b>	0.23	0.25	0.88	
	(0.22)	(0.25)	(0.61)	
<b>Channel catfish</b>	1.42	1.42	1.63	1.46
	(0.52)	(0.60)	(0.78)	(0.53)
<b>Freckled madtom</b>	0.00		0.38	
	(0.00)		(0.26)	
<b>Flathead catfish</b>	0.24	0.25	1.75	0.08
	(0.16)	(0.18)	(0.37)	(0.08)
<b>Blackstripe topminnow</b>	0.00			0.04
	(0.00)			(0.04)
<b>Brook silverside</b>	0.29	0.17	0.13	1.25
	(0.15)	(0.11)	(0.13)	(0.96)
<b>Inland silverside</b>	0.54	0.58		0.29
	(0.51)	(0.58)		(0.29)
<b>White bass</b>	1.07	1.08	0.88	1.00
	(0.33)	(0.38)	(0.44)	(0.30)
<b>Green sunfish</b>	0.02		1.00	0.08
	(0.01)		(0.87)	(0.06)
<b>Warmouth</b>	0.00			0.04

	(0.00)			(0.04)
<b>Orangespotted sunfish</b>	0.06		1.50	0.42
	(0.03)		(1.00)	(0.22)
<b>Bluegill</b>	0.04		0.38	0.33
	(0.02)		(0.26)	(0.16)
<b>Longear sunfish</b>	0.01			0.08
	(0.01)			(0.06)
<b>Smallmouth bass</b>	0.01			0.08
	(0.01)			(0.08)
<b>Spotted bass</b>	0.24	0.17	2.13	0.67
	(0.10)	(0.11)	(0.55)	(0.27)
<b>Sauger</b>	0.25	0.25	0.13	0.25
	(0.12)	(0.13)	(0.13)	(0.15)
<b>Freshwater drum</b>	3.56	3.42	0.75	4.83
	(1.26)	(1.40)	(0.25)	(2.75)
<b>Striped mullet</b>	0.00			0.04
	(0.00)			(0.04)
<b>Larval fish</b>	0.00			0.04
	(0.00)			(0.04)

**Sampling strata:****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/open/tb3\\_or0003.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb3_or0003.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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**Table 6.5** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in Open River of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.5](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	SCB
<b>Shortnose gar</b>	6.75	6.75
	(4.35)	(4.36)
<b>Gizzard shad</b>	1.05	1.05
	(0.86)	(0.86)
<b>Threadfin shad</b>	0.10	0.10
	(0.09)	(0.10)
<b>Common carp</b>	1.15	1.15
	(0.61)	(0.61)
<b>River carpsucker</b>	0.52	0.52
	(0.25)	(0.25)
<b>Smallmouth buffalo</b>	0.10	0.10
	(0.10)	(0.10)
<b>Bigmouth buffalo</b>	0.12	0.12
	(0.12)	(0.12)
<b>Blue catfish</b>	0.11	0.11
	(0.11)	(0.11)
<b>Channel catfish</b>	1.17	1.17

	(0.87)	(0.87)
<b>Flathead catfish</b>	0.19	0.19
	(0.19)	(0.19)
<b>White bass</b>	1.46	1.46
	(0.71)	(0.71)
<b>White crappie</b>	0.20	0.20
	(0.20)	(0.20)
<b>Sauger</b>	0.10	0.10
	(0.10)	(0.10)
<b>Freshwater drum</b>	1.82	1.82
	(1.11)	(1.11)

**Sampling stratum:  
SCB - Side channel border**

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**Table 8.5** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Open River of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.5](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	MCBW	SCB
Longnose gar	0.00		0.23	
	(0.00)		(0.23)	
Shortnose gar	0.20	0.18		0.42
	(0.15)	(0.18)		(0.16)
Goldeye	0.46	0.50		0.16
	(0.36)	(0.42)		(0.13)
Skipjack herring	0.09	0.09	0.34	0.12
	(0.08)	(0.09)	(0.34)	(0.09)
Gizzard shad	0.47	0.52	0.24	0.14
	(0.26)	(0.30)	(0.16)	(0.10)
Threadfin shad	0.33	0.30		0.60
	(0.27)	(0.30)		(0.42)
Grass carp	0.01			0.12
	(0.01)			(0.09)
Red shiner	0.91	0.38	2.29	4.64
	(0.30)	(0.22)	(0.82)	(2.00)
Spotfin shiner	0.09	0.09		0.04

	(0.08)	(0.09)		(0.04)
<b>Blacktail shiner</b>	0.11	0.08	0.39	0.26
	(0.08)	(0.08)	(0.39)	(0.22)
<b>Common carp</b>	2.73	3.08	0.22	0.36
	(1.59)	(1.83)	(0.15)	(0.23)
<b>Silver carp</b>	0.74	0.83		0.13
	(0.59)	(0.67)		(0.07)
<b>Bighead carp</b>	0.03			0.25
	(0.02)			(0.17)
<b>Speckled chub</b>	0.71	0.77	0.46	0.34
	(0.59)	(0.67)	(0.46)	(0.30)
<b>Emerald shiner</b>	2.33	1.70	6.45	6.65
	(0.63)	(0.58)	(2.16)	(3.17)
<b>River shiner</b>	0.39	0.42		0.21
	(0.37)	(0.42)		(0.18)
<b>Silverband shiner</b>	1.04	0.87	3.23	2.06
	(0.30)	(0.33)	(2.81)	(0.69)
<b>Channel shiner</b>	7.66	6.37	7.11	17.25
	(2.77)	(2.88)	(4.20)	(9.91)
<b>Bluntnose minnow</b>	0.11	0.10		0.22
	(0.09)	(0.10)		(0.14)
<b>Bullhead minnow</b>	0.01		0.40	0.04
	(0.01)		(0.40)	(0.04)
<b>River carpsucker</b>	0.16		0.56	1.33
	(0.13)		(0.44)	(1.13)
<b>Black buffalo</b>	0.06			0.53
	(0.06)			(0.49)
<b>Yellow bullhead</b>	0.01			0.08
	(0.01)			(0.05)
<b>Channel catfish</b>	1.82	1.79	6.10	1.72

	(0.57)	(0.65)	(1.32)	(0.58)
<b>Freckled madtom</b>	0.00			0.04
	(0.00)			(0.04)
<b>Flathead catfish</b>	0.00		0.24	
	(0.00)		(0.16)	
<b>Blackstripe topminnow</b>	0.00		0.11	
	(0.00)		(0.11)	
<b>Western mosquitofish</b>	0.00		0.47	
	(0.00)		(0.34)	
<b>Brook silverside</b>	0.01			0.09
	(0.01)			(0.06)
<b>Inland silverside</b>	0.02			0.13
	(0.01)			(0.09)
<b>White bass</b>	0.50	0.51	1.49	0.34
	(0.26)	(0.30)	(1.23)	(0.24)
<b>Orangespotted sunfish</b>	0.02		0.38	0.13
	(0.01)		(0.27)	(0.10)
<b>Bluegill</b>	0.95	0.99	2.66	0.56
	(0.69)	(0.79)	(1.50)	(0.22)
<b>Spotted bass</b>	0.10	0.08	0.25	0.21
	(0.07)	(0.08)	(0.16)	(0.17)
<b>White crappie</b>	0.01			0.05
	(0.01)			(0.05)
<b>Black crappie</b>	0.34	0.39		
	(0.34)	(0.39)		
<b>Freshwater drum</b>	5.74	5.58	8.90	6.71
	(1.87)	(2.12)	(3.20)	(2.70)
<b>Larval fish</b>	1.49	0.34		10.11
	(0.87)	(0.26)		(7.16)

### Sampling strata:

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**SCB - Side channel border**

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**Table 10.5** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Open River of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.5](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	MCBW	SCB
<b>Shortnose gar</b>	0.01			0.05
	(0.00)			(0.03)
<b>Common carp</b>	0.99	1.07	0.69	0.48
	(0.37)	(0.43)	(0.32)	(0.20)
<b>River carpsucker</b>	0.01			0.07
	(0.00)			(0.04)
<b>Smallmouth buffalo</b>	0.08	0.10		
	(0.08)	(0.10)		
<b>Bigmouth buffalo</b>	0.00			0.02
	(0.00)			(0.02)
<b>Black buffalo</b>	0.01		0.17	0.05
	(0.00)		(0.11)	(0.03)
<b>Blue catfish</b>	0.19	0.21		0.10
	(0.10)	(0.11)		(0.04)
<b>Channel catfish</b>	6.77	7.23	2.39	3.70
	(4.24)	(4.86)	(1.03)	(1.53)
<b>Flathead catfish</b>	0.32	0.35	0.08	0.10

	(0.20)	(0.23)	(0.08)	(0.05)
<b>White bass</b>	0.01			0.07
	(0.00)			(0.04)
<b>Bluegill</b>	0.00			0.02
	(0.00)			(0.02)
<b>Freshwater drum</b>	0.10	0.10		0.07
	(0.09)	(0.10)		(0.04)

**Sampling strata:****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/open/tb3\\_or0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb3_or0006.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶



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**Table 11.5** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Open River of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.5](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	MCBW	SCB
<b>Shovelnose sturgeon</b>	0.00		0.18	
	(0.00)		(0.18)	
<b>Longnose gar</b>	0.00			0.02
	(0.00)			(0.02)
<b>Shortnose gar</b>	0.04	0.04		0.05
	(0.04)	(0.04)		(0.05)
<b>Gizzard shad</b>	0.02			0.19
	(0.01)			(0.11)
<b>Grass carp</b>	0.04	0.04		0.02
	(0.04)	(0.04)		(0.02)
<b>Common carp</b>	2.48	2.75	0.09	0.68
	(1.82)	(2.08)	(0.09)	(0.23)
<b>River carpsucker</b>	0.28	0.13		1.38
	(0.13)	(0.09)		(0.88)
<b>Smallmouth buffalo</b>	2.78	3.03	0.35	1.11
	(0.64)	(0.73)	(0.26)	(0.34)
<b>Bigmouth buffalo</b>	0.08	0.04		0.32

	(0.05)	(0.04)		(0.25)
<b>Black buffalo</b>	0.15			1.24
	(0.08)			(0.65)
<b>Channel catfish</b>	1.92	2.13	0.44	0.54
	(0.95)	(1.09)	(0.28)	(0.18)
<b>Flathead catfish</b>	0.22	0.23	0.70	0.10
	(0.09)	(0.11)	(0.60)	(0.05)
<b>White bass</b>	0.25	0.28	0.09	0.05
	(0.14)	(0.16)	(0.09)	(0.03)
<b>Freshwater drum</b>	0.29	0.28	0.09	0.35
	(0.11)	(0.13)	(0.09)	(0.14)

**Sampling strata:****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/open/tb3\\_or0007.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb3_or0007.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 12.5** Mean catch-per-unit-effort and (standard error) for fish collected by seining in Open River of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.5](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
Longnose gar	0.04	0.04	
	(0.04)	(0.04)	
Shortnose gar	0.00		0.03
	(0.00)		(0.03)
Goldeye	0.84	0.96	
	(0.46)	(0.52)	
Skipjack herring	0.01		0.06
	(0.01)		(0.04)
Gizzard shad	7.62	8.08	4.19
	(5.43)	(6.17)	(1.22)
Threadfin shad	0.11	0.08	0.29
	(0.06)	(0.06)	(0.29)
Red shiner	2.80	0.71	18.16
	(0.95)	(0.24)	(7.82)
Spotfin shiner	0.00		0.03
	(0.00)		(0.03)
Common carp	0.04	0.04	

	(0.04)	(0.04)	
<b>Mississippi silvery minnow</b>	0.11	0.13	0.03
	(0.11)	(0.13)	(0.03)
<b>Silver carp</b>	0.10	0.08	0.26
	(0.08)	(0.08)	(0.15)
<b>Bighead carp</b>	0.02		0.13
	(0.01)		(0.09)
<b>Speckled chub</b>	0.37	0.33	0.68
	(0.23)	(0.25)	(0.33)
<b>Silver chub</b>	0.04	0.04	
	(0.04)	(0.04)	
<b>Emerald shiner</b>	10.29	8.50	23.45
	(3.66)	(3.99)	(8.67)
<b>Silverband shiner</b>	0.66	0.33	3.03
	(0.21)	(0.17)	(1.32)
<b>Sand shiner</b>	0.01		0.06
	(0.01)		(0.04)
<b>Channel shiner</b>	1.58	1.00	5.84
	(0.45)	(0.46)	(1.76)
<b>Pugnose minnow</b>	0.00		0.03
	(0.00)		(0.03)
<b>Bullhead minnow</b>	0.01		0.06
	(0.01)		(0.04)
<b>River carpsucker</b>	0.51	0.04	3.97
	(0.28)	(0.04)	(2.38)
<b>Unidentified buffalo</b>	0.01		0.06
	(0.01)		(0.06)
<b>Channel catfish</b>	1.89	2.13	0.19
	(1.10)	(1.25)	(0.11)
<b>Western mosquitofish</b>	0.03		0.23

	(0.02)		(0.16)
<b>Brook silverside</b>	0.14		1.16
	(0.11)		(0.94)
<b>Inland silverside</b>	0.12	0.04	0.71
	(0.05)	(0.04)	(0.30)
<b>White bass</b>	0.07	0.04	0.26
	(0.04)	(0.04)	(0.10)
<b>Bluegill</b>	0.11	0.13	0.03
	(0.08)	(0.09)	(0.03)
<b>Spotted bass</b>	0.01		0.10
	(0.01)		(0.05)
<b>Black crappie</b>	0.00		0.03
	(0.00)		(0.03)
<b>Logperch</b>	0.00		0.03
	(0.00)		(0.03)
<b>Freshwater drum</b>	1.40	1.50	0.65
	(0.55)	(0.62)	(0.27)
<b>Larval fish</b>	0.02		0.13
	(0.01)		(0.09)

**Sampling strata:****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/open/tb3\\_or0008.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb3_or0008.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►

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**Table 13.5** Mean catch-per-unit-effort and (standard error) for fish collected by gill netting in Open River of the Upper Mississippi River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.5](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	MCBW	SCB
<b>Shovelnose sturgeon</b>	0.56	0.35	2.46	2.00
	(0.37)	(0.35)	(0.74)	(1.75)
<b>Paddlefish</b>	0.08		0.27	0.67
	(0.04)		(0.27)	(0.30)
<b>Shortnose gar</b>	0.03			0.22
	(0.02)			(0.15)
<b>Bowfin</b>	0.03			0.21
	(0.02)			(0.14)
<b>American eel</b>	0.26	0.30		
	(0.26)	(0.30)		
<b>Skipjack herring</b>	0.01			0.11
	(0.01)			(0.11)
<b>Gizzard shad</b>	0.36	0.27		1.09
	(0.25)	(0.27)		(0.65)
<b>Common carp</b>	1.34	1.21		2.38
	(0.14)	(0.06)		(1.06)
<b>Silver carp</b>	0.06			0.53



	(0.04)			(0.32)
<b>Bighead carp</b>	0.08			0.66
	(0.04)			(0.37)
<b>River carpsucker</b>	0.14		0.30	1.19
	(0.07)		(0.30)	(0.55)
<b>Blue sucker</b>	0.23	0.27		
	(0.23)	(0.27)		
<b>Smallmouth buffalo</b>	0.65	0.65		0.76
	(0.33)	(0.38)		(0.44)
<b>Bigmouth buffalo</b>	0.01			0.12
	(0.01)			(0.12)
<b>Black buffalo</b>	0.05			0.43
	(0.03)			(0.24)
<b>Blue catfish</b>	0.58	0.54	3.23	0.65
	(0.47)	(0.54)	(3.23)	(0.23)
<b>Channel catfish</b>	1.04	0.96		1.69
	(0.58)	(0.66)		(0.65)
<b>Flathead catfish</b>	0.27	0.27		0.32
	(0.24)	(0.27)		(0.16)
<b>Freshwater drum</b>	0.35	0.30	0.30	0.75
	(0.27)	(0.30)	(0.30)	(0.35)

**Sampling strata:****MCBU - Main channel border, unstructured****MCBW - Main channel border, wing dam****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb3_or0009.html)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/open/tb3\\_or0009.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb3_or0009.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►




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**Table 14.5** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in Open River of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	MCBU	TRI
<b>Spotted gar</b>	0.00	0.60
	(0.00)	(0.40)
<b>Shortnose gar</b>	1.00	1.40
	(0.58)	(1.17)
<b>Bowfin</b>	0.00	0.40
	(0.00)	(0.40)
<b>Goldeye</b>	0.33	0.20
	(0.33)	(0.20)
<b>Skipjack herring</b>	1.00	0.00
	(0.58)	(0.00)
<b>Gizzard shad</b>	44.67	55.00
	(19.94)	(17.31)
<b>Threadfin shad</b>	0.00	1.00
	(0.00)	(0.63)
<b>Red shiner</b>	0.33	0.00
	(0.33)	(0.00)
<b>Blacktail shiner</b>	0.00	0.20
	(0.00)	(0.20)

<b>Common carp</b>	0.67	8.00
	(0.67)	(4.17)
<b>Silver carp</b>	0.00	0.20
	(0.00)	(0.20)
<b>Emerald shiner</b>	3.33	1.80
	(0.88)	(0.92)
<b>Bullhead minnow</b>	0.00	0.60
	(0.00)	(0.40)
<b>River carpsucker</b>	0.67	0.00
	(0.67)	(0.00)
<b>Smallmouth buffalo</b>	0.00	0.60
	(0.00)	(0.40)
<b>Bigmouth buffalo</b>	0.00	1.40
	(0.00)	(1.17)
<b>Black buffalo</b>	0.00	0.20
	(0.00)	(0.20)
<b>Shorthead redhorse</b>	0.00	0.20
	(0.00)	(0.20)
<b>Channel catfish</b>	1.33	1.00
	(0.33)	(0.63)
<b>Blackstripe topminnow</b>	0.00	0.60
	(0.00)	(0.24)
<b>Blackspotted topminnow</b>	0.00	0.40
	(0.00)	(0.40)
<b>Western mosquitofish</b>	0.00	0.20
	(0.00)	(0.20)
<b>Brook silverside</b>	0.33	0.80
	(0.33)	(0.49)
<b>White bass</b>	0.67	0.40
	(0.33)	(0.24)

<b>Warmouth</b>	0.00	0.20
	(0.00)	(0.20)
<b>Orangespotted sunfish</b>	0.00	2.00
	(0.00)	(0.84)
<b>Bluegill</b>	0.00	2.60
	(0.00)	(0.40)
<b>Spotted bass</b>	0.00	2.00
	(0.00)	(1.52)
<b>Largemouth bass</b>	0.33	1.40
	(0.33)	(0.87)
<b>White crappie</b>	0.00	0.40
	(0.00)	(0.24)
<b>Sauger</b>	0.33	0.00
	(0.33)	(0.00)
<b>Freshwater drum</b>	0.33	1.20
	(0.33)	(0.37)

**Sampling strata:****MCBU - Main channel border, unstructured****TRI - Tributary mouth***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/open/tb4\\_or0010.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb4_or0010.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 16.5** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in Open River of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	MCBU	TRI
<b>Shortnose gar</b>	3.41	0.00
	(2.52)	(0.00)
<b>Bowfin</b>	0.31	0.00
	(0.31)	(0.00)
<b>Gizzard shad</b>	4.09	0.19
	(4.09)	(0.19)
<b>Common carp</b>	1.04	2.13
	(1.04)	(1.32)
<b>River carpsucker</b>	0.35	1.07
	(0.35)	(0.70)
<b>Smallmouth buffalo</b>	0.00	0.35
	(0.00)	(0.22)
<b>Channel catfish</b>	0.63	0.64
	(0.63)	(0.47)
<b>White bass</b>	4.09	0.55
	(4.09)	(0.37)
<b>Bluegill</b>	0.00	0.32
	(0.00)	(0.32)

<b>White crappie</b>	0.00	0.68
	(0.00)	(0.48)
<b>Sauger</b>	0.31	0.00
	(0.31)	(0.00)
<b>Freshwater drum</b>	3.84	4.51
	(2.80)	(3.22)

**Sampling strata:**  
**MCBU - Main channel border, unstructured**  
**TRI - Tributary mouth**

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**Table 17.5** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in Open River of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	MCBU	TRI
<b>Skipjack herring</b>	0.00	0.16
	(0.00)	(0.16)
<b>Gizzard shad</b>	8.38	0.83
	(6.17)	(0.64)
<b>Threadfin shad</b>	0.63	0.19
	(0.63)	(0.19)
<b>Red shiner</b>	0.31	0.17
	(0.31)	(0.17)
<b>Spotfin shiner</b>	0.94	0.00
	(0.94)	(0.00)
<b>Common carp</b>	0.00	9.85
	(0.00)	(9.85)
<b>Bighead carp</b>	0.00	2.41
	(0.00)	(2.04)
<b>Emerald shiner</b>	25.61	0.49
	(13.06)	(0.49)
<b>Silverband shiner</b>	0.63	0.76
	(0.63)	(0.38)



<b>Channel shiner</b>	2.20	3.48
	(2.20)	(1.59)
<b>Bluntnose minnow</b>	0.00	1.00
	(0.00)	(1.00)
<b>River carpsucker</b>	0.00	0.19
	(0.00)	(0.19)
<b>Yellow bullhead</b>	0.00	0.17
	(0.00)	(0.17)
<b>Channel catfish</b>	2.33	0.51
	(1.49)	(0.34)
<b>Flathead catfish</b>	0.34	0.00
	(0.34)	(0.00)
<b>Blackstripe topminnow</b>	0.34	0.65
	(0.34)	(0.65)
<b>Western mosquitofish</b>	0.00	0.97
	(0.00)	(0.97)
<b>Brook silverside</b>	0.00	0.16
	(0.00)	(0.16)
<b>Inland silverside</b>	1.28	0.16
	(0.83)	(0.16)
<b>White bass</b>	0.31	0.00
	(0.31)	(0.00)
<b>Warmouth</b>	0.00	0.40
	(0.00)	(0.40)
<b>Orangespotted sunfish</b>	0.00	0.33
	(0.00)	(0.33)
<b>Bluegill</b>	0.63	15.29
	(0.63)	(8.37)
<b>Freshwater drum</b>	6.46	8.50
	(6.46)	(7.45)

Larval fish	0.00	1.78
	(0.00)	(1.78)

**Sampling strata:**  
**MCBU - Main channel border, unstructured**  
**TRI - Tributary mouth**

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**Table 18.5** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in Open River of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	MCBU	TRI
Shortnose gar	0.00	0.09
	(0.00)	(0.09)
Common carp	0.85	1.02
	(0.45)	(0.60)
Channel catfish	0.67	2.43
	(0.17)	(1.52)
Flathead catfish	0.17	0.09
	(0.17)	(0.09)
Sauger	0.00	0.08
	(0.00)	(0.08)
Freshwater drum	0.17	0.08
	(0.17)	(0.08)

**Sampling strata:**

**MCBU - Main channel border, unstructured**

**TRI - Tributary mouth**

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**Table 19.5** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in Open River of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	MCBU	TRI
<b>Shortnose gar</b>	0.00	0.17
	(0.00)	(0.11)
<b>Bowfin</b>	0.00	0.08
	(0.00)	(0.08)
<b>Grass carp</b>	0.17	0.00
	(0.17)	(0.00)
<b>Common carp</b>	1.02	9.50
	(0.59)	(3.04)
<b>Bighead carp</b>	0.00	0.09
	(0.00)	(0.09)
<b>River carpsucker</b>	7.35	1.10
	(7.35)	(0.42)
<b>Smallmouth buffalo</b>	2.04	1.49
	(1.06)	(0.97)
<b>Bigmouth buffalo</b>	0.85	0.09
	(0.85)	(0.09)
<b>Black buffalo</b>	0.51	1.09
	(0.29)	(0.53)

<b>Channel catfish</b>	0.17	4.37
	(0.17)	(3.25)
<b>Flathead catfish</b>	0.00	0.17
	(0.00)	(0.11)
<b>Sauger</b>	0.17	0.00
	(0.17)	(0.00)
<b>Freshwater drum</b>	1.37	1.66
	(1.37)	(1.05)

**Sampling strata:****MCBU - Main channel border, unstructured****TRI - Tributary mouth***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/open/tb4\\_or0014.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/open/tb4_or0014.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 20.5** Mean catch-per-unit-effort and (standard error) for fish collected by seining in Open River of the Upper Mississippi River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	MCBU
Shortnose gar	0.13
	(0.13)
Gizzard shad	4.25
	(2.15)
Threadfin shad	0.75
	(0.49)
Emerald shiner	3.38
	(1.16)
Channel shiner	0.38
	(0.38)
Freshwater drum	0.38
	(0.38)

**Sampling stratum:**  
**MCBU - Main channel border, unstructured**

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## Open River Length Distributions

Length distributions (length) as a percentage of catch (percent) for selected species of interest collected by the Long Term Resource Monitoring Program. Fish species are listed in phylogenetical order following Robins et al. (1991) nomenclature. In some instances, meaningful biological interpretation of these distributions may be limited by small sample size or size selectivity of the gear (Anderson and Neumann 1996). Some fish histograms with small sample sizes (<100) are included because of local interest, while others were omitted (reach dependent). Scientific names for the species listed can be found in [Table 1](#).

Figure*	<a href="#">Species</a>	<a href="#">Method</a>
<a href="#">2.5</a>	Gizzard shad	Electrofishing
<a href="#">3.5</a>	Common carp	Electrofishing
<a href="#">4.5</a>	Smallmouth buffalo	Electrofishing
<a href="#">5.5</a>	Smallmouth buffalo	Hoop netting
<a href="#">6.5</a>	Channel catfish	Electrofishing
<a href="#">7.5</a>	Channel catfish	Hoop netting
<a href="#">10.5</a>	White bass	Electrofishing
<a href="#">11.5</a>	Bluegill	Electrofishing
<a href="#">12.5</a>	Bluegill	Fyke netting
<a href="#">13.5</a>	Largemouth bass	Electrofishing
<a href="#">14.5</a>	White crappie	Fyke netting
<a href="#">16.5</a>	Sauger	Electrofishing
<a href="#">18.5</a>	Freshwater drum	Electrofishing
<a href="#">19.5</a>	Freshwater drum	Fyke netting

\*Figure numbers are not always in sequence because some species were not caught in some study areas. Figure numbers for each species and gear type are consistent among study areas.

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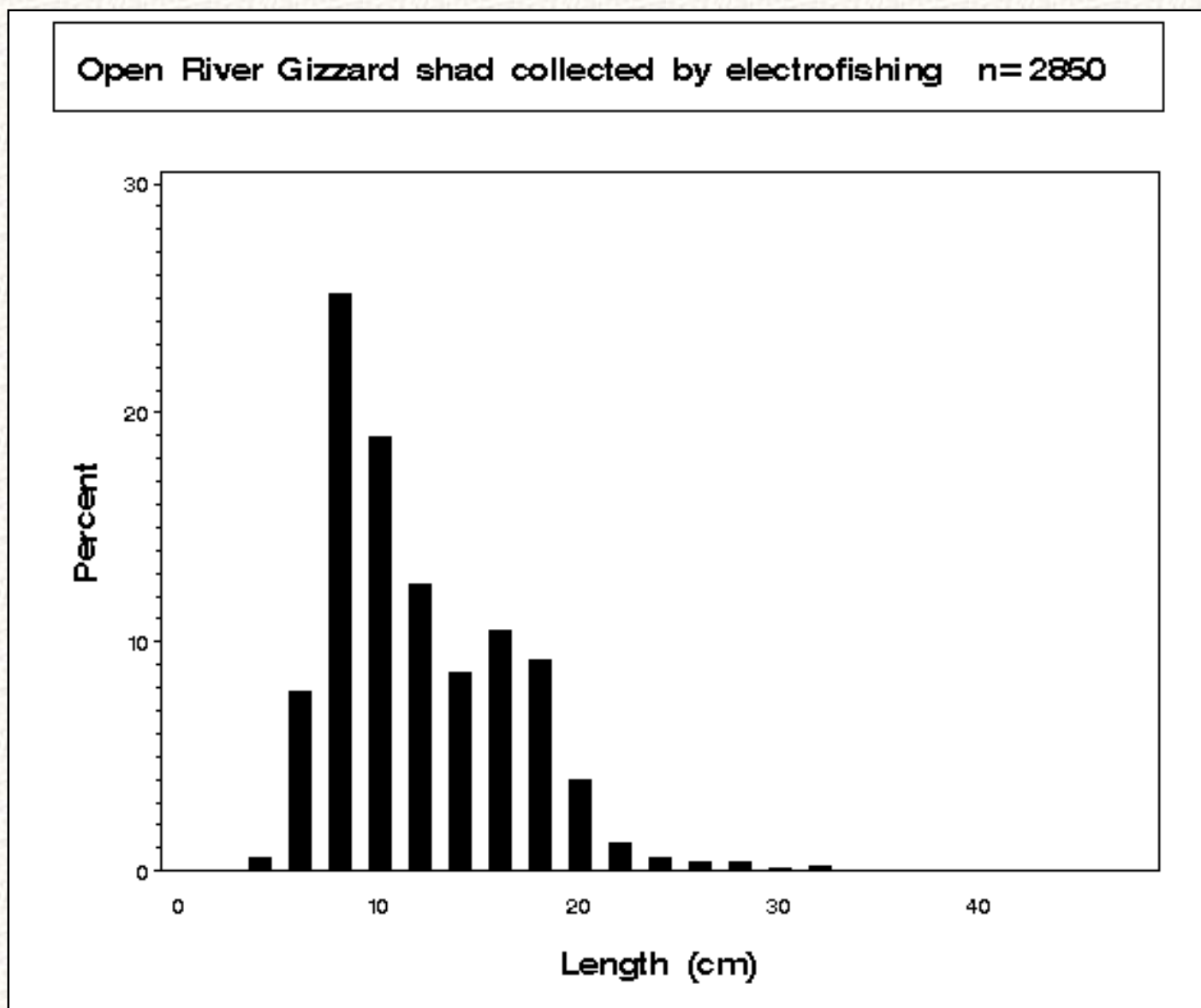
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**Figure 2.5** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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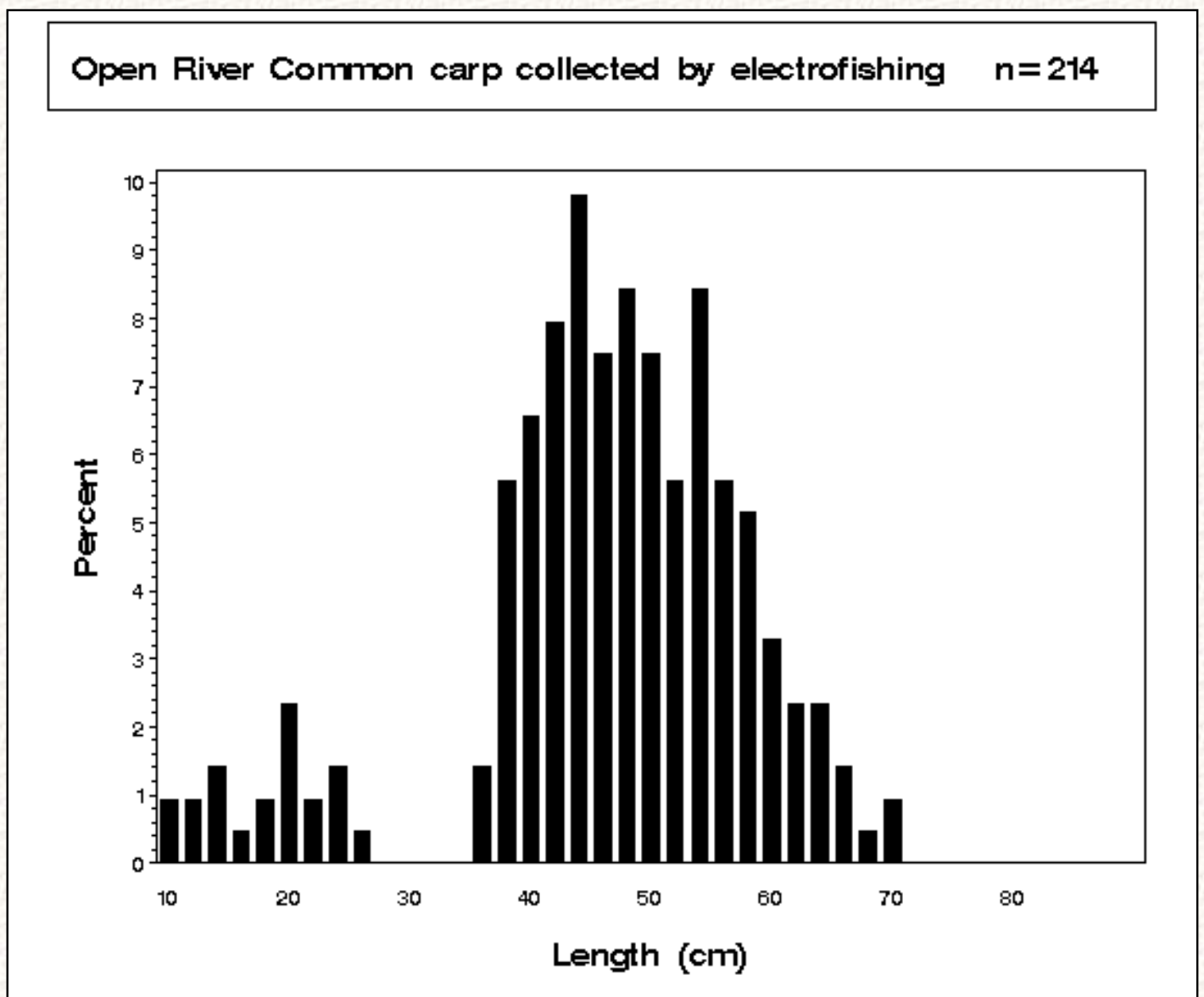
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**Figure 3.5** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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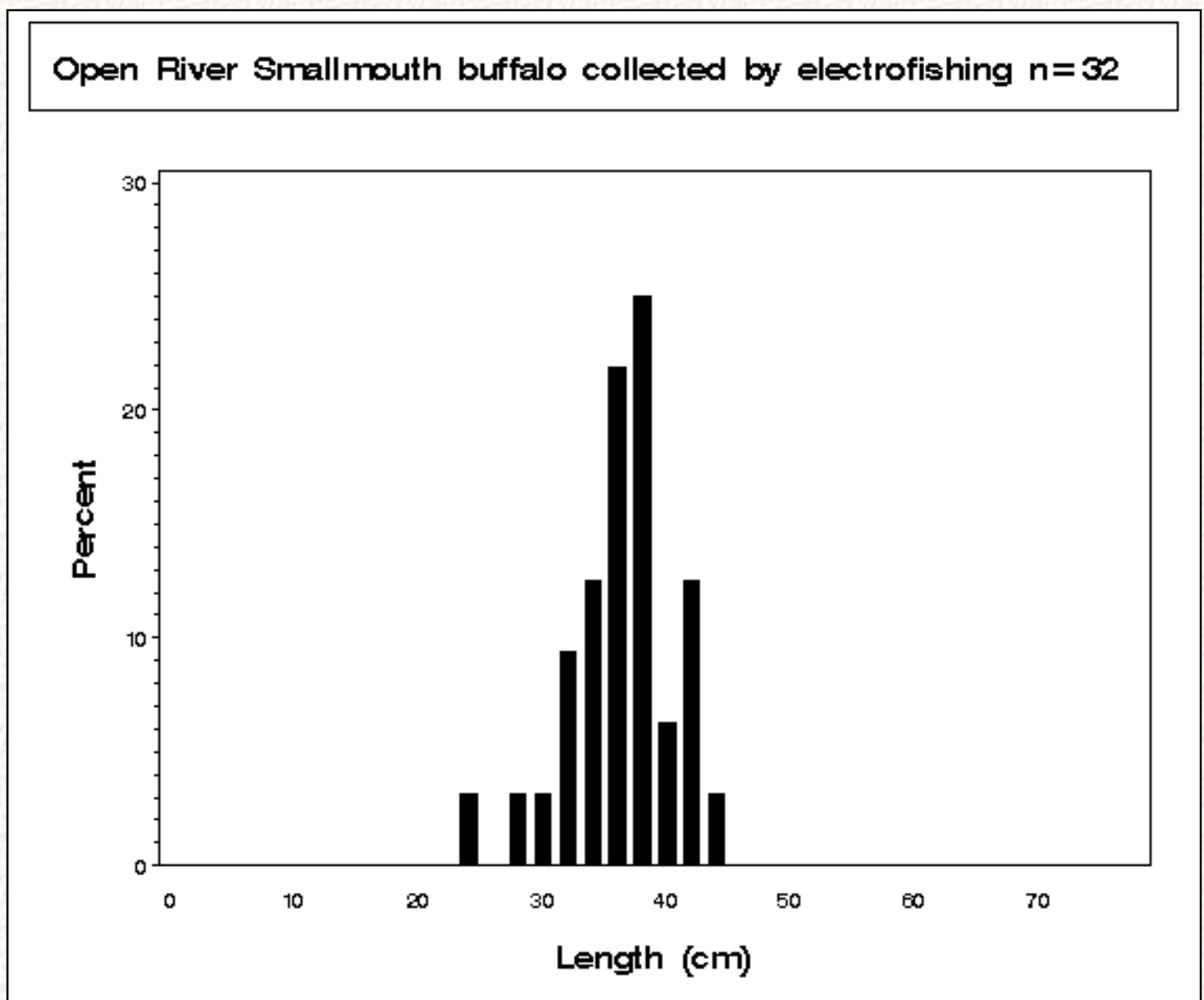
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**Figure 4.5** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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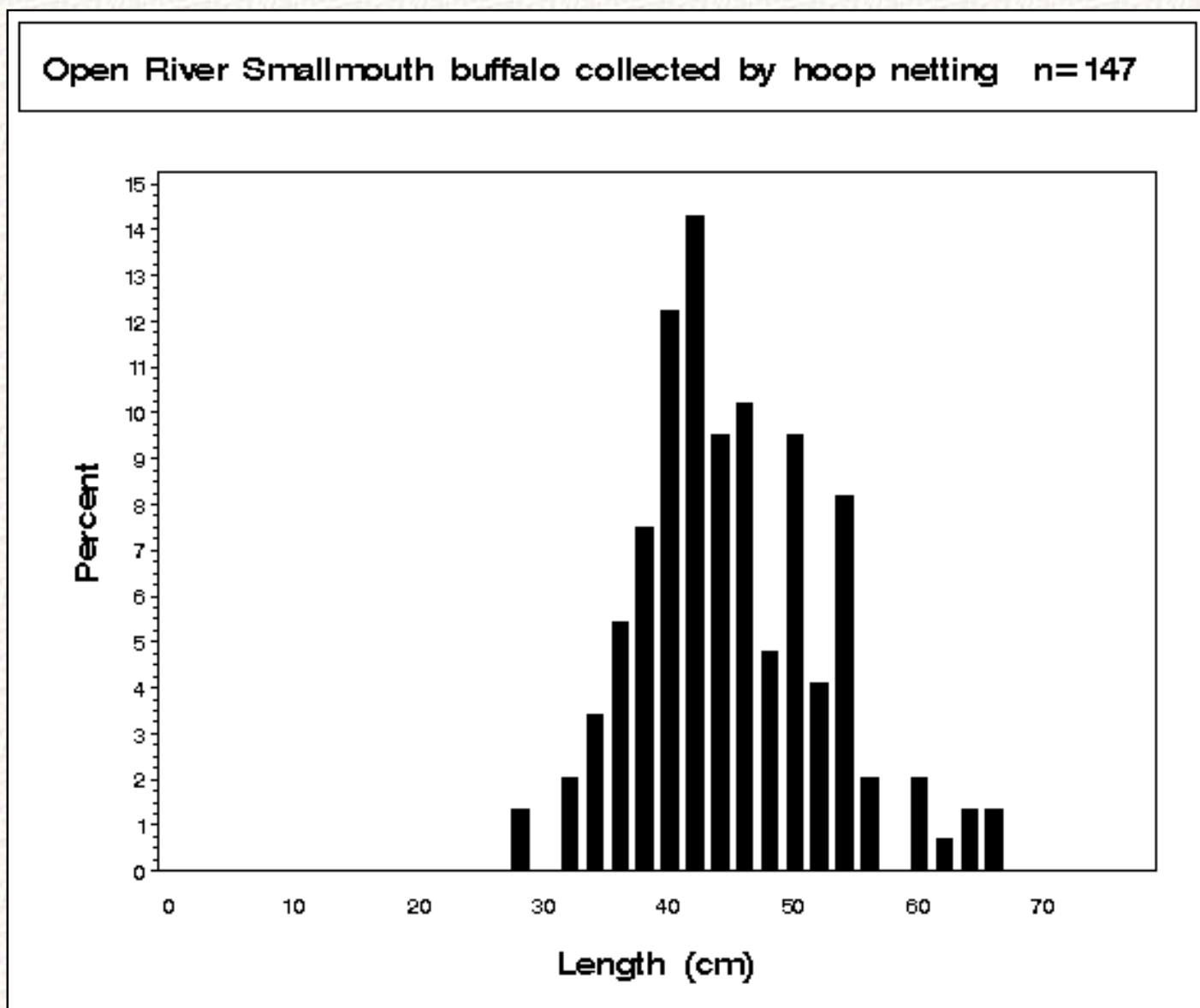
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**Figure 5.5** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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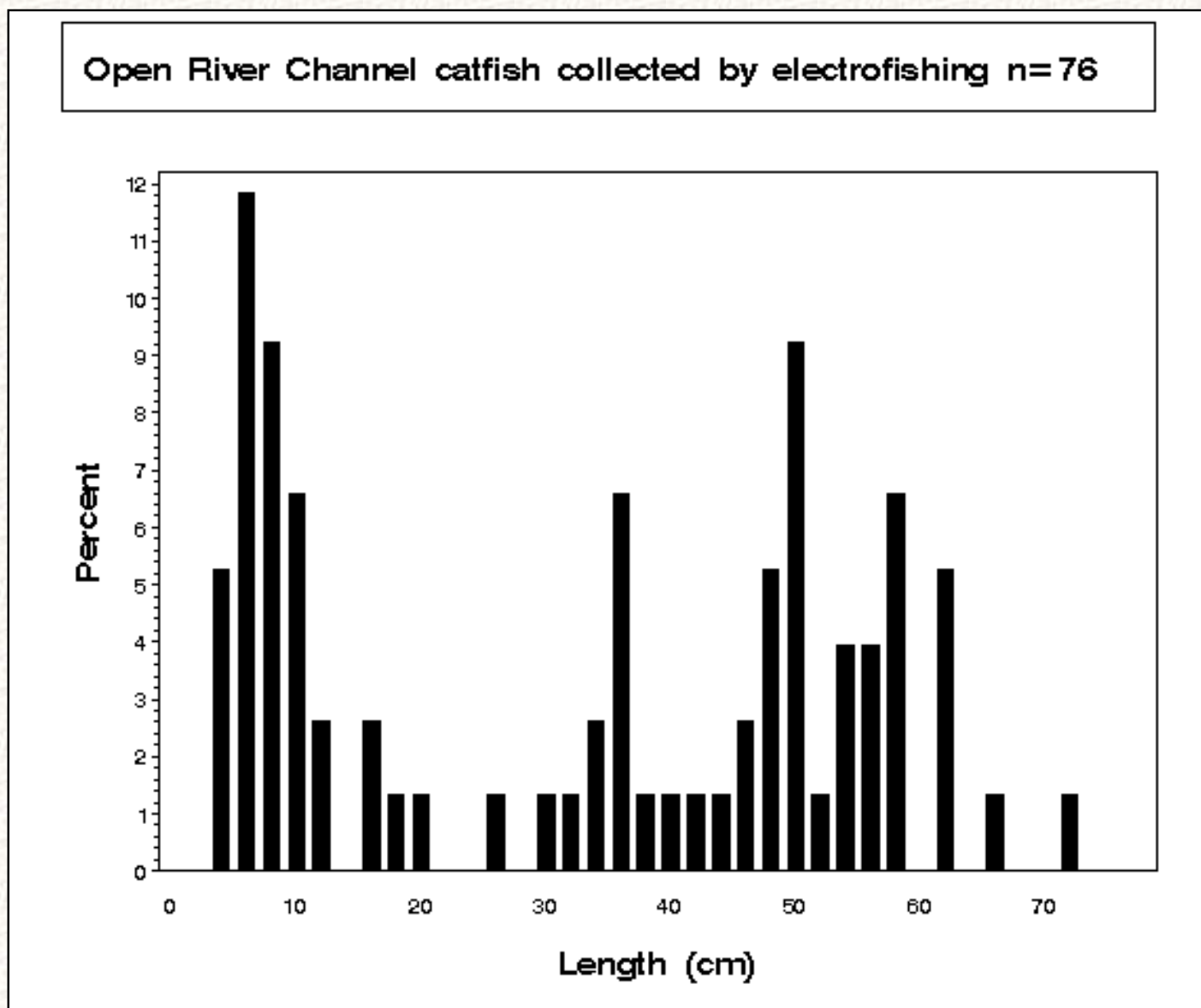
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**Figure 6.5** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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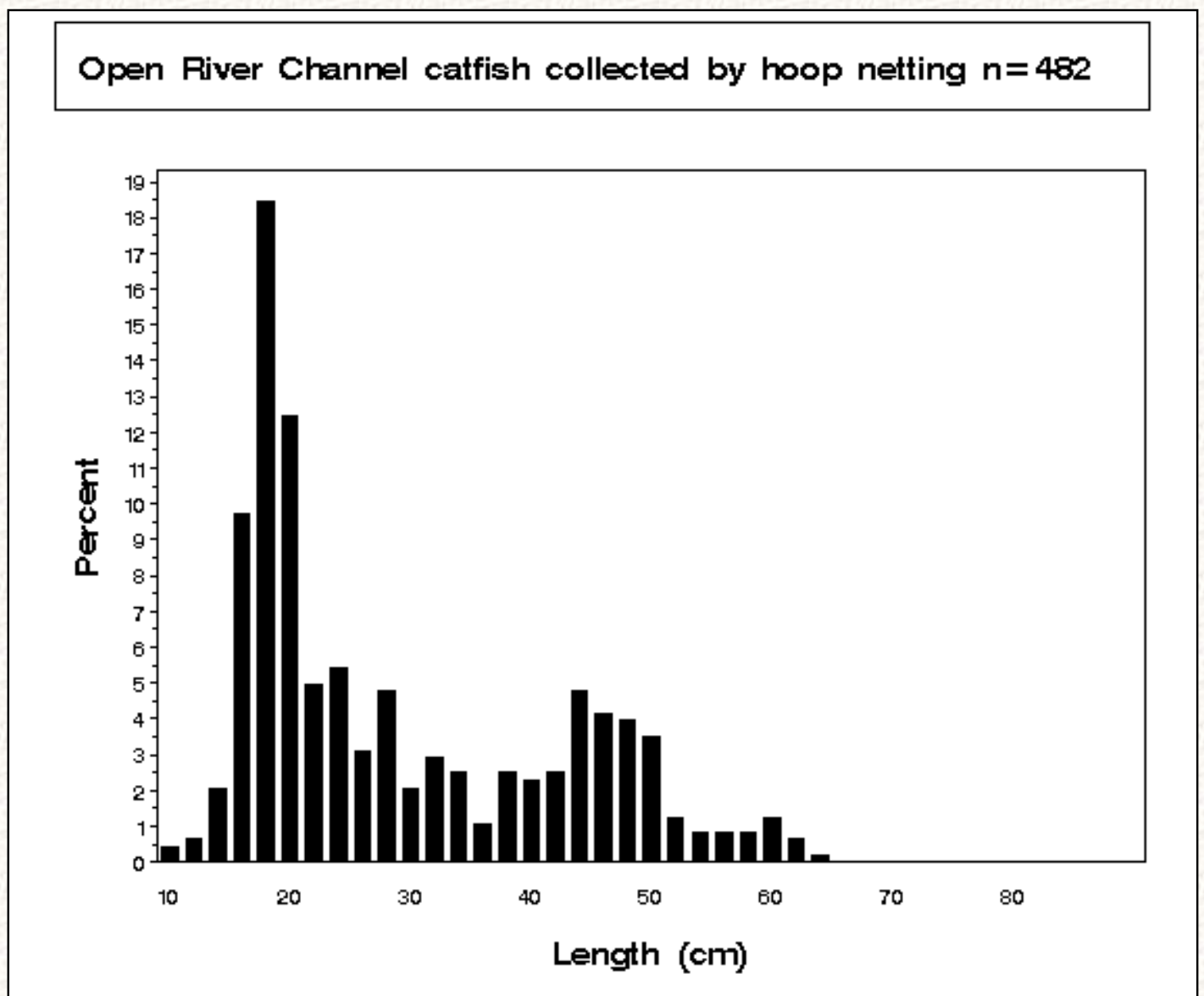
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**Figure 7.5** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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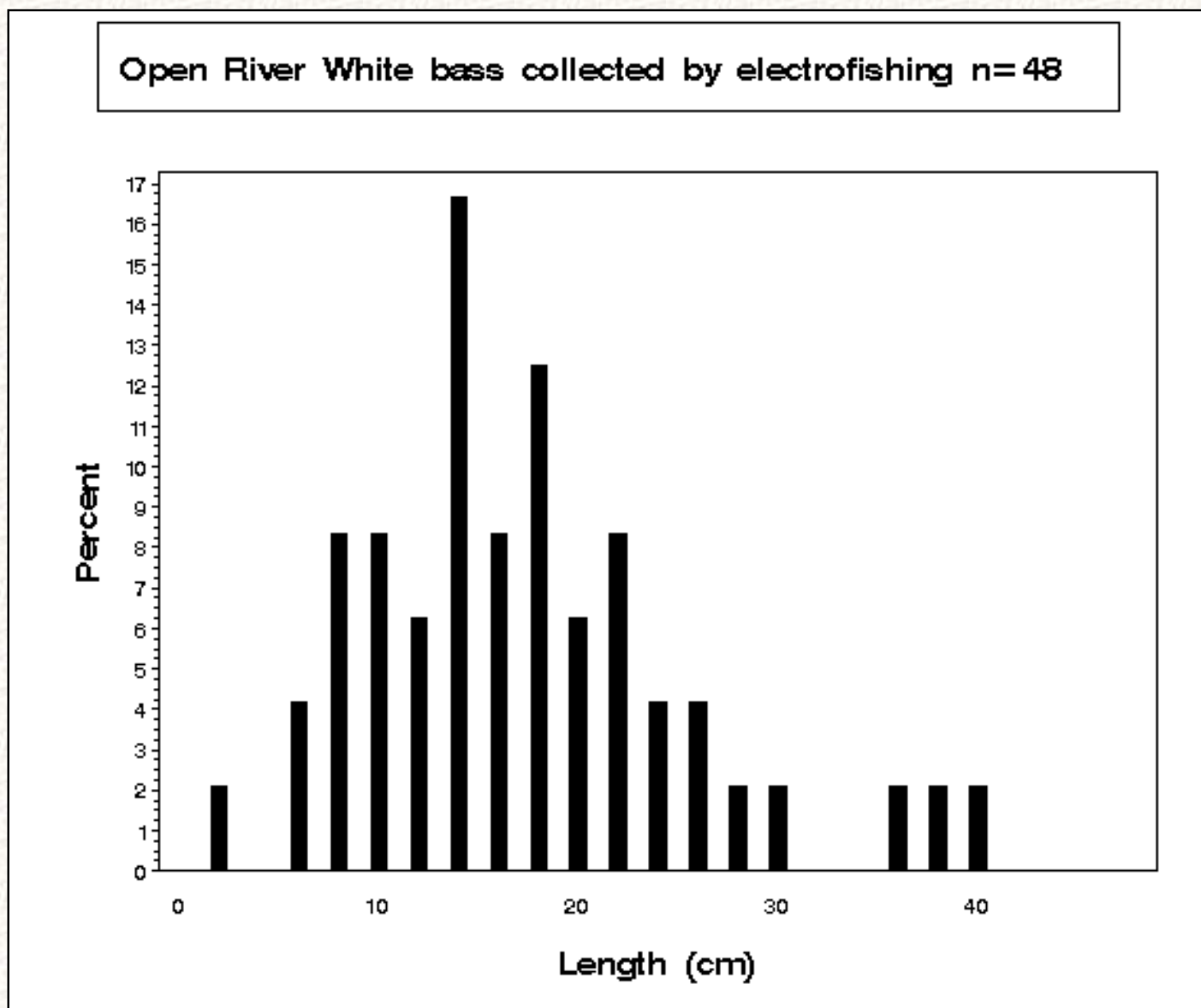
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**Figure 10.5** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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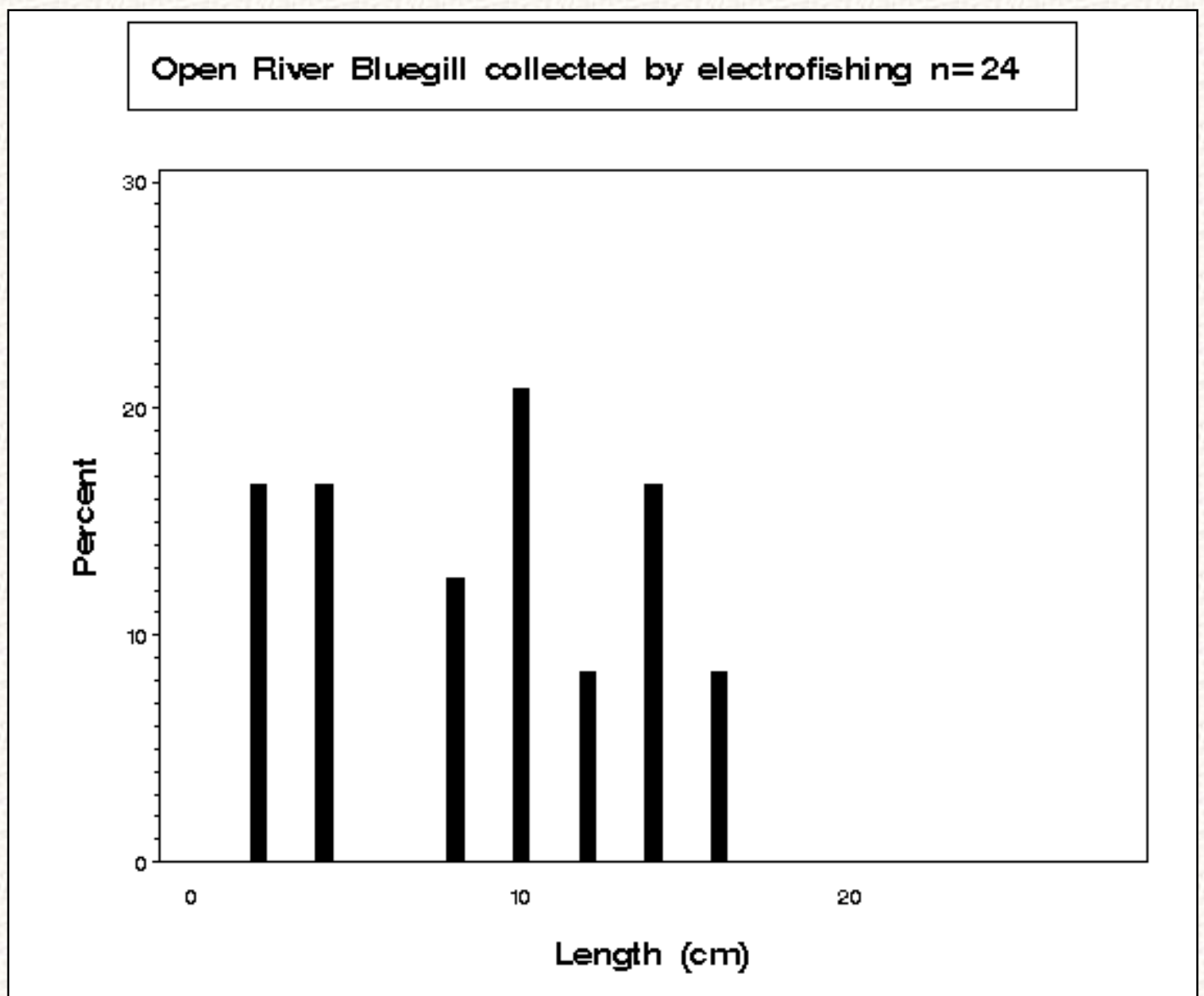
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**Figure 11.5** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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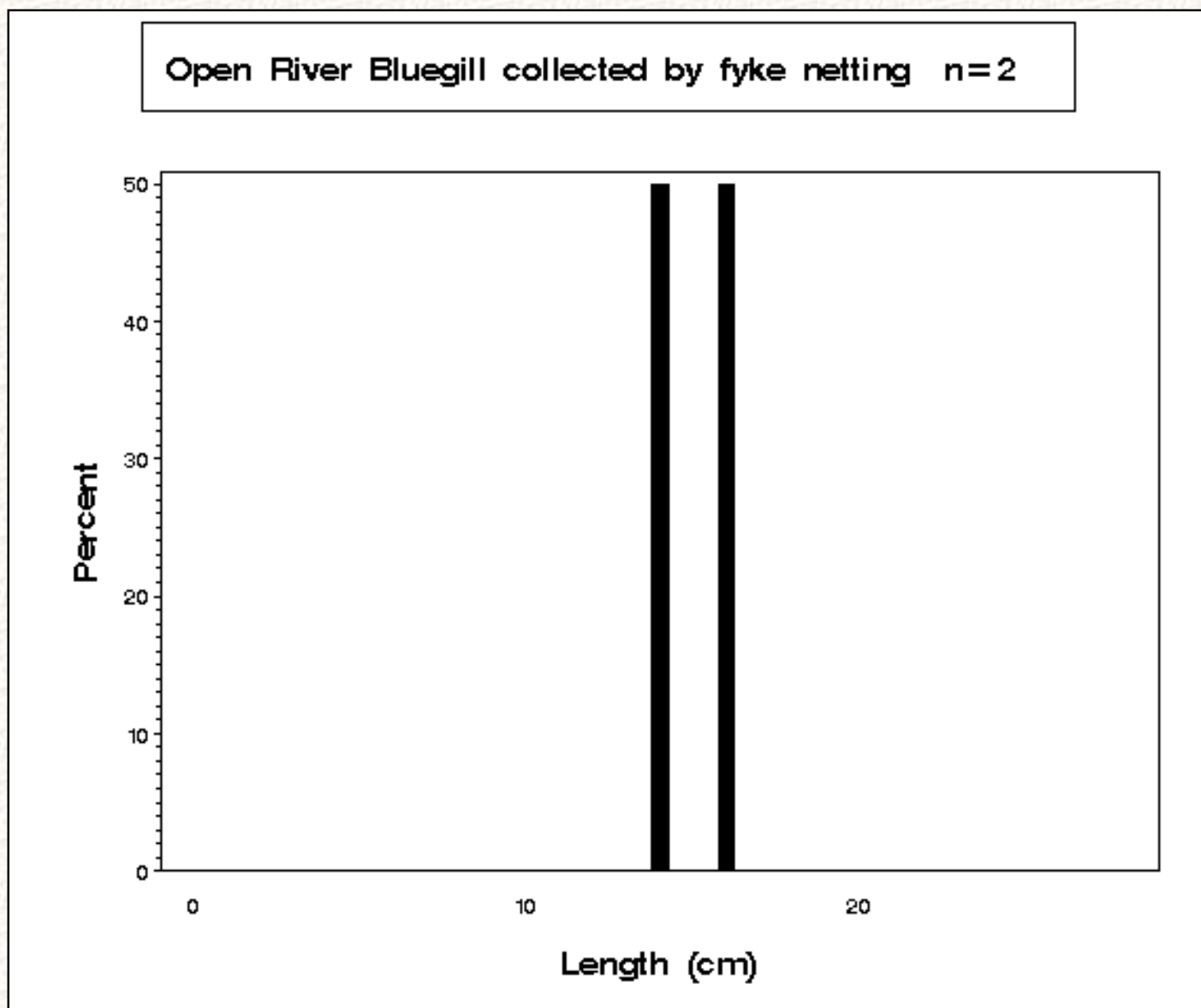
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**Figure 12.5** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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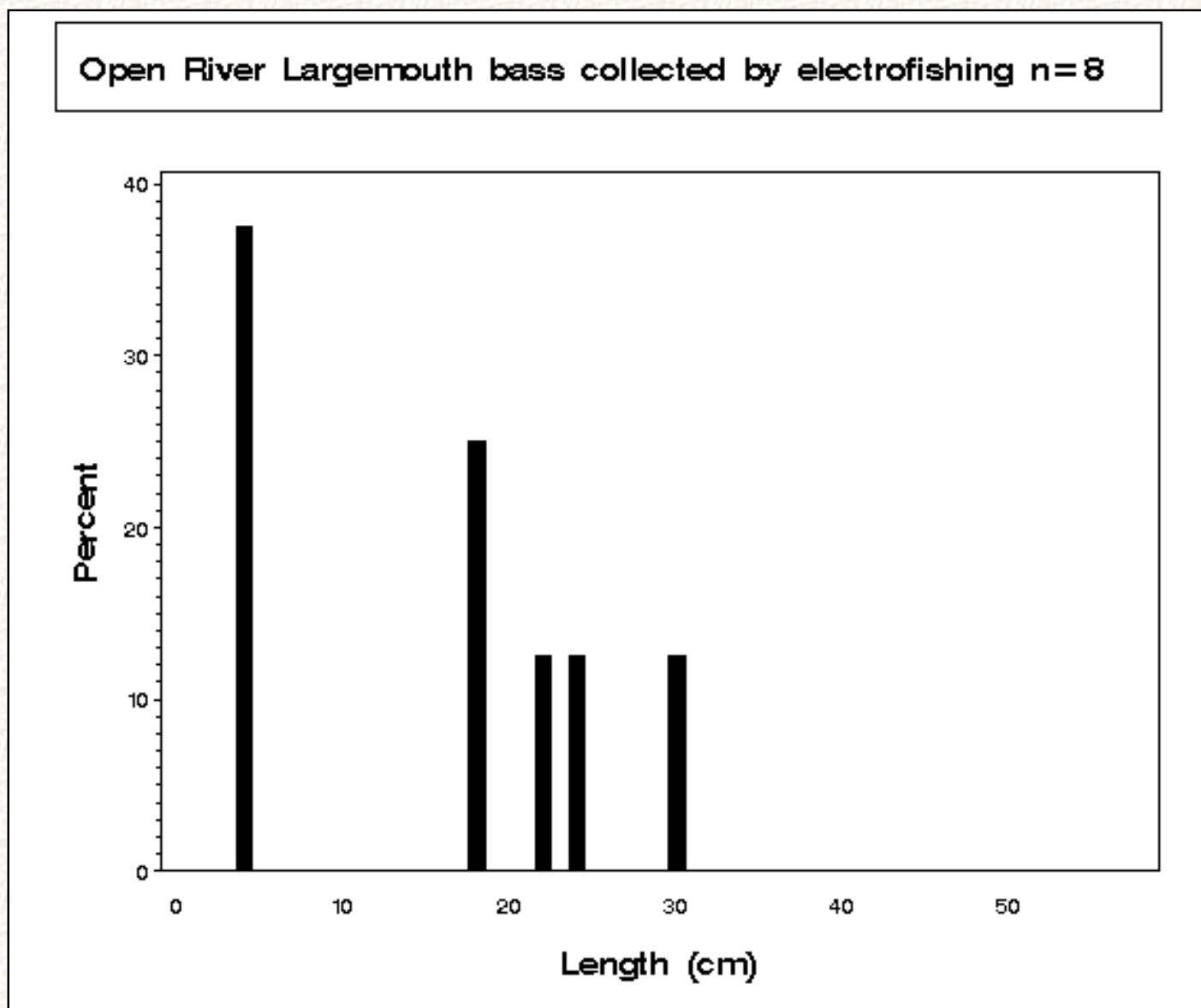
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**Figure 13.5** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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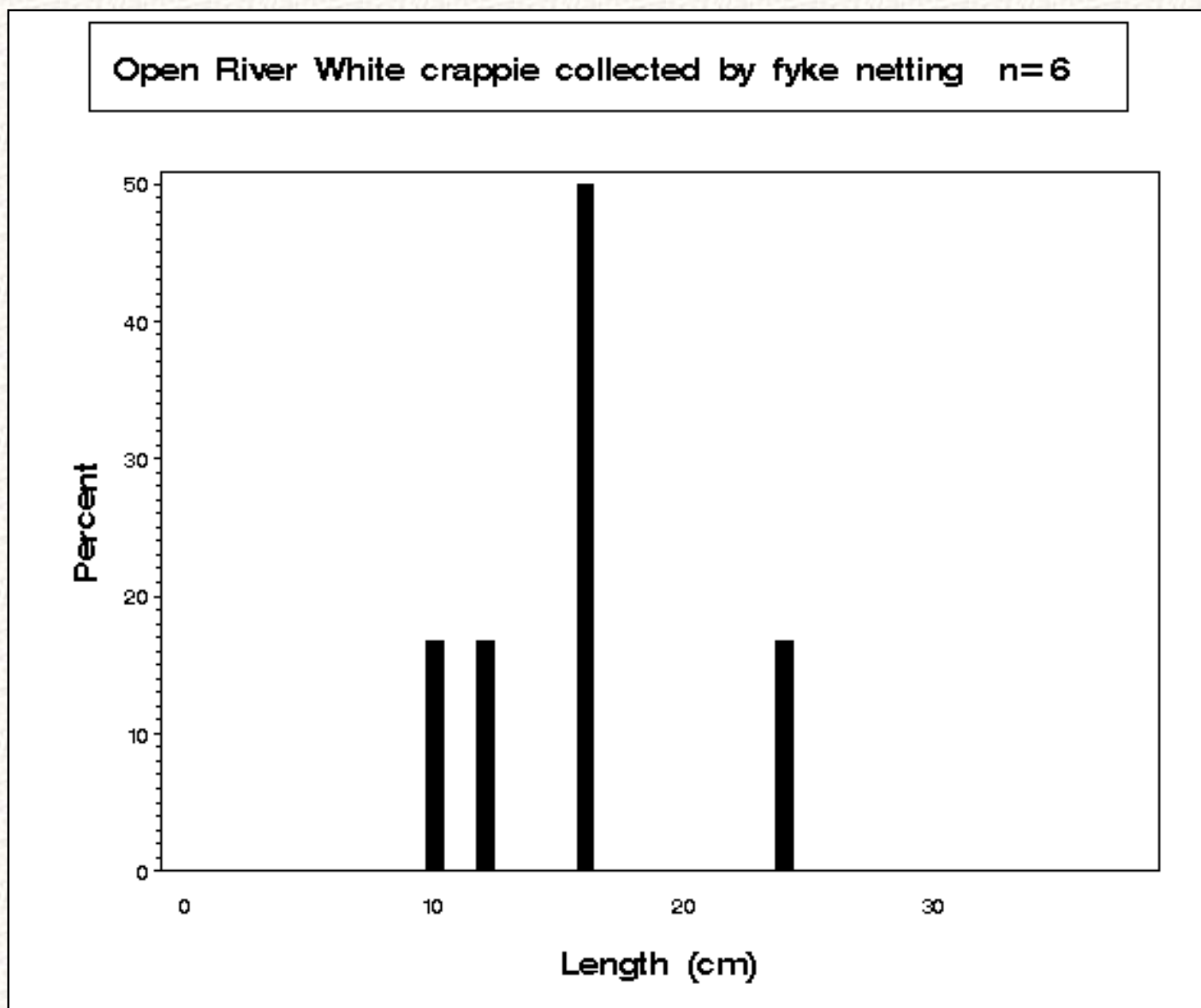
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**Figure 14.5** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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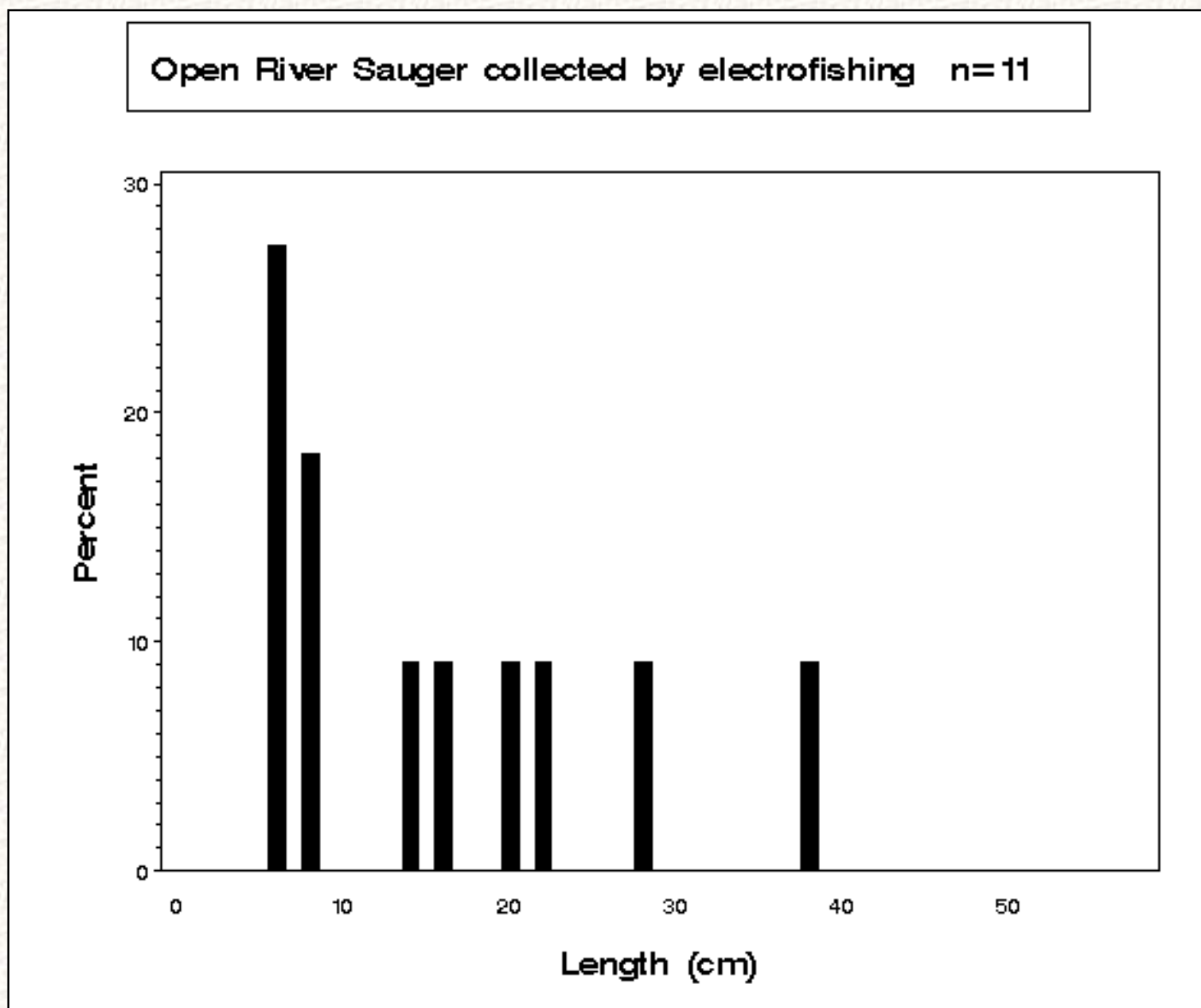
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**Figure 16.5** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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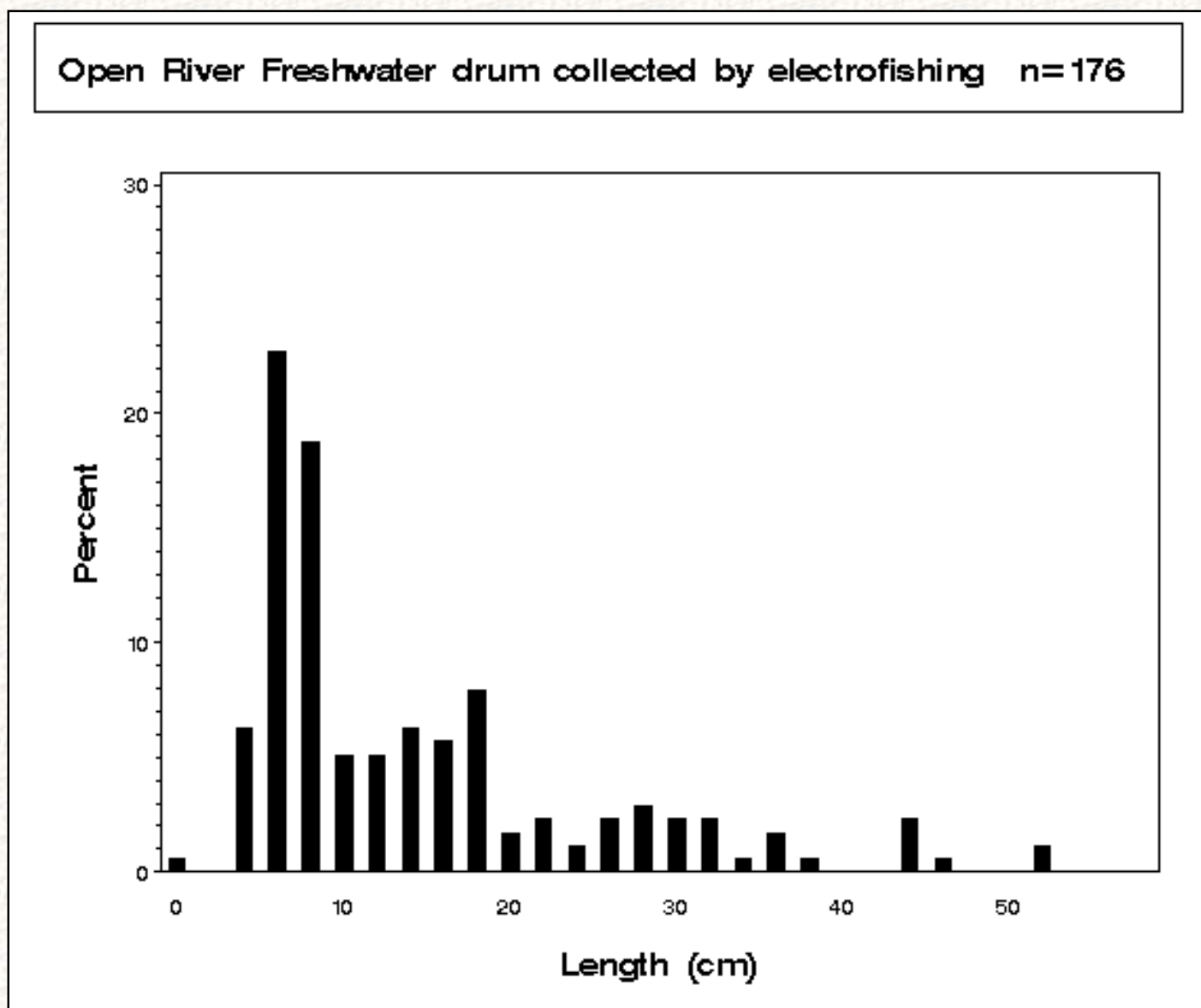
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**Figure 18.5** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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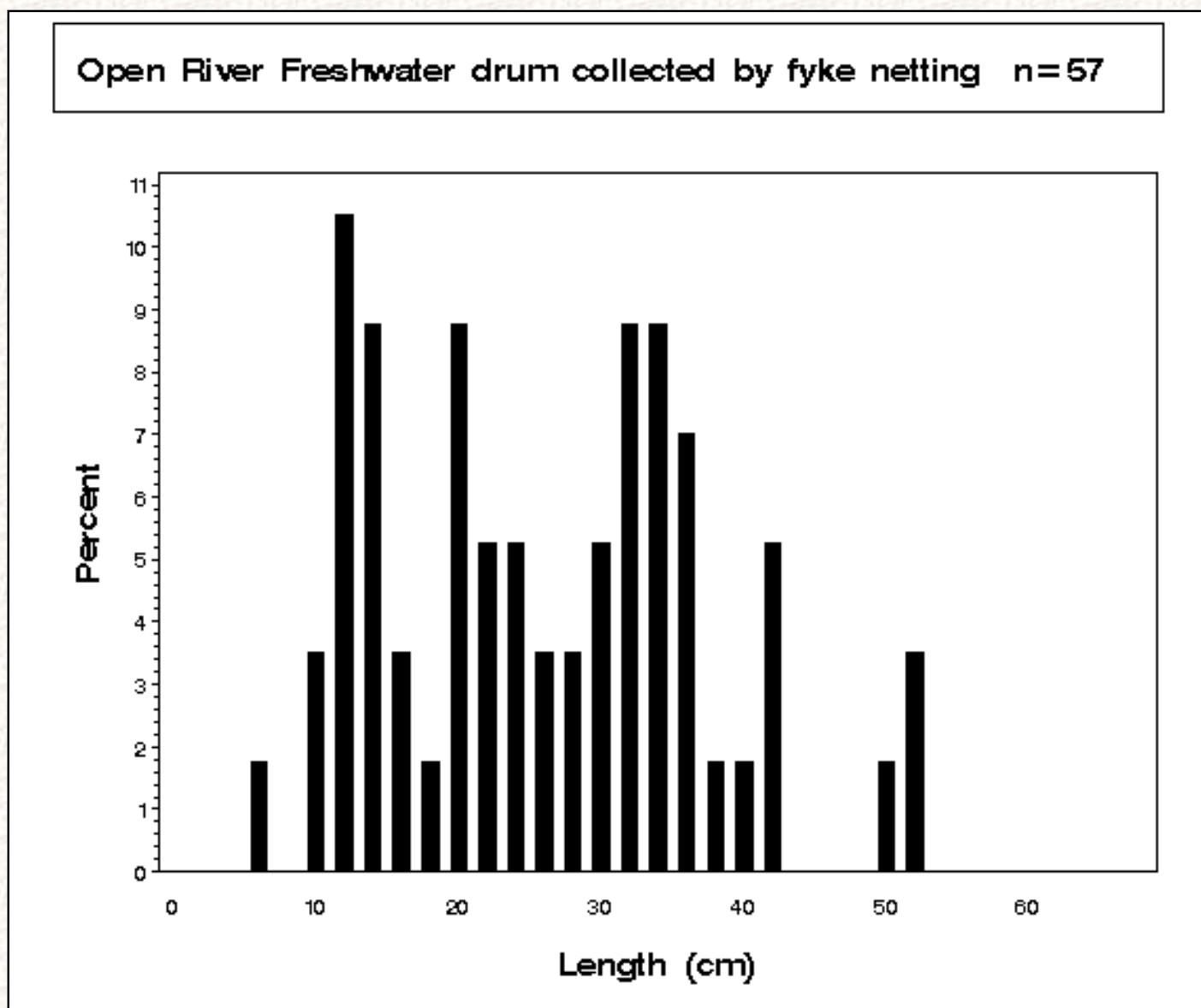
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**Figure 19.5** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by fyke netting in Open River of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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## La Grange Pool, Illinois River 2000 Fish Collection Summary

This report is a bullet summary of the [Long Term Resource Monitoring Program's](#) (LTRMP) fish collection efforts conducted by the [Havana Field Station](#) on [La Grange Pool](#), Illinois River during 2000. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 544 fish collections were made in La Grange Pool during 2000 using 10 gear types ([Table 2.6](#)).
- Gear allocations among strata varied for all three sampling periods because of low and high water extremes ([Table 2.6](#); [Figure 1.6](#)).
- Of the 544 fish collections, 413 were from randomly selected sites. One hundred-thirty-one collections were made at fixed sites.
- Two tailwater sites were sampled, La Grange Lock and Dam and Peoria Lock and Dam; data from both tailwater sites were combined for analysis ([Table 2.6](#)).
- Side channel border and main channel border, unstructured received the most sampling effort ([Table 2.6](#)).
- 90,544 fish were collected representing 62 species and 3 hybrids ([Table 3.6](#)).
- Fish distribution records for the Illinois River (Smith 1979) document 115 fish species from La Grange Pool.
- The LTRMP species total for La Grange Pool before the 2000 season was 83; a shovelnose sturgeon was collected for the first time during 2000 ([Table 3.6](#)).
- Mean catch-per-unit-effort and standard effort for fish collected by gears using

stratified random ([Tables 4.6-12.6](#)) and fixed-site sampling ([Tables 14.6-21.6](#)) for each stratum are shown.

- Length distributions for selected species of fish are shown in [Figures 2.6 to 19.6](#).

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**Table 2.6** Allocation of fish sampling effort among strata in La Grange Pool of the Illinois River during 2000. Table entries are numbers of successfully completed standardized monitoring collections.

#### Sampling period = 1: June 15–July 31

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	12		14	11					4	41
Fyke net	10								4	14
Large hoop net			8	8					4	20
Small hoop net			8	8					4	20
Mini fyke net	10		8	7					4	29
Night electrofishing			2						4	6
Seine	8		13	12						33
Trawling									8	8
Tandem fyke net		6								6
Tandem mini fyke net		6								6
<b>Subtotal</b>	<b>40</b>	<b>12</b>	<b>53</b>	<b>46</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>183</b>

#### Sampling period = 2: August 1–September 14

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	12		14	12					4	42
Fyke net	9								4	13
Large hoop net			8	8					4	20
Small hoop net			8	8					4	20

Mini fyke net	10		7	8					4	29
Night electrofishing			2						4	6
Seine	8		10	9						27
Trawling									8	8
Tandem fyke net		6								6
Tandem mini fyke net		6								6
<b>Subtotal</b>	<b>39</b>	<b>12</b>	<b>49</b>	<b>45</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>177</b>

### Sampling period = 3: September 15–October 31

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	Total
Day electrofishing	12		14	12					4	42
Fyke net	10								4	14
Large hoop net			8	8					4	20
Small hoop net			8	8					4	20
Mini fyke net	10		8	8					4	30
Night electrofishing			2						4	6
Seine	8		12	12						32
Trawling									8	8
Tandem fyke net		6								6
Tandem mini fyke net		6								6
<b>Subtotal</b>	<b>40</b>	<b>12</b>	<b>52</b>	<b>48</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>32</b>	<b>184</b>
<b>Total</b>	<b>119</b>	<b>36</b>	<b>154</b>	<b>139</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>96</b>	<b>544</b>

### Sampling srata:

**BWCS - Backwater, contiguous, shoreline**

**BWCO - Backwater, contiguous, offshore**

**SCB - Side channel border**

**MCBU - Main channel border, unstructured**

**MCBW - Main channel border, wing dam**

**IMPS - Impounded, shoreline**

**IMPO - Impounded, offshore**

**TRI - Tributary mouth**

## TWZ - Tailwater

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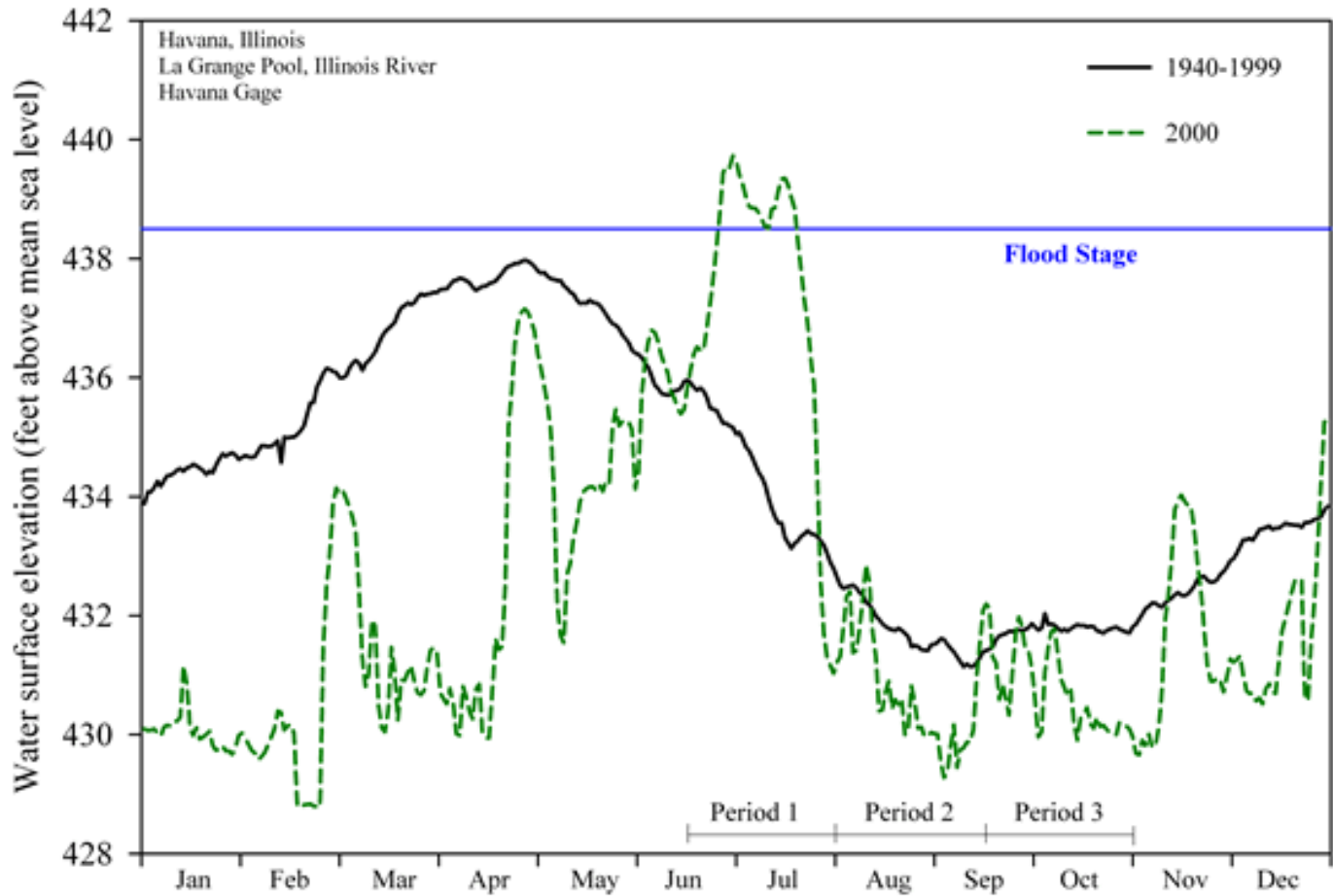


Figure 1.6 Daily water surface elevation from Havana Gage for La Grange Pool, Illinois River, during 2000 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski et al. 1995).

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**Table 3.6** Total catches, by gear type, of fish collected in La Grange Pool of the Illinois River during 2000. See [Table 2.6](#) for the list of sampling gears actually deployed in this study reach.

Species	Common name	Scientific name	D	N	F	X	M	Y	S	HS	HL	G	TA	T	Total
1	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	-	-	-	1	1
2	Spotted gar	<i>Lepisosteus oculatus</i>	6	3	-	-	-	-	-	-	-	-	-	-	9
3	Longnose gar	<i>L. osseus</i>	6	10	-	-	3	-	3	-	-	-	-	-	22
4	Shortnose gar	<i>L. platostomus</i>	43	21	58	20	29	1	2	-	-	-	-	-	174
5	Bowfin	<i>Amia calva</i>	7	3	5	-	-	-	-	-	-	-	-	-	15
6	Skipjack herring	<i>Alosa chrysochloris</i>	152	11	9	2	86	4	53	-	-	-	-	-	317
7	Gizzard shad	<i>Dorosoma cepedianum</i>	7736	1068	295	1025	13120	1054	3746	9	11	-	-	-	28064
8	Threadfin shad	<i>D. petenense</i>	171	6	10	1	204	61	103	-	-	-	-	-	556
9	Unidentified herring	<i>Clupeidae</i> sp.	6	-	-	-	46	-	-	-	-	-	-	-	52
10	Goldfish	<i>Carassius auratus</i>	23	3	2	1	-	-	3	-	-	-	-	-	32
11	Grass carp	<i>Ctenopharyngodon idella</i>	104	14	4	-	65	2	76	-	4	-	-	-	269
12	Red shiner	<i>Cyprinella lutrensis</i>	10	1	-	-	37	-	44	-	-	-	-	-	92
13	Common carp	<i>Cyprinus carpio</i>	1830	218	66	36	608	16	45	374	403	-	-	2	3598
14	Carp x goldfish hybrid	<i>C. carpio x auratus</i>	21	5	2	-	-	-	4	-	1	-	-	-	33
15	Silver carp	<i>Hypophthalmichthys molitrix</i>	37	16	3	-	4	-	12	-	2	-	-	-	74
16	Bighead carp	<i>H. nobilis</i>	57	7	70	165	654	12	171	2	4	-	-	-	1142
17	Silver chub	<i>Macrhybopsis storeriana</i>	16	-	-	-	68	4	65	-	-	-	-	-	153
18	Golden shiner	<i>Notemigonus crysoleucas</i>	4	-	-	-	10	-	2	-	-	-	-	-	16
19	Emerald shiner	<i>Notropis atherinoides</i>	788	68	-	-	28967	80	4725	-	-	-	-	-	34628
20	River shiner	<i>N. blennius</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
21	Spottail shiner	<i>N. hudsonius</i>	-	-	-	-	-	-	5	-	-	-	-	-	5

22	Silverband shiner	<i>N. shumardi</i>	6	-	-	-	16	2	6	-	-	-	-	-	30
23	Bluntnose minnow	<i>Pimephales notatus</i>	1	-	-	-	31	-	6	-	-	-	-	-	38
24	Fathead minnow	<i>P. promelas</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
25	Bullhead minnow	<i>P. vigilax</i>	16	-	-	-	76	2	88	-	-	-	-	-	182
26	Creek chub	<i>Semotilus atromaculatus</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
27	River carpsucker	<i>Carpionodes carpio</i>	109	26	59	12	4	-	5	1	6	-	-	-	222
28	Quillback	<i>C. cyprinus</i>	3	-	1	-	-	-	-	-	1	-	-	-	5
29	Highfin carpsucker	<i>C. velifer</i>	2	-	-	-	-	-	-	-	-	-	-	-	2
30	Smallmouth buffalo	<i>Ictiobus bubalus</i>	766	304	78	4	4	-	5	43	792	-	-	-	1996
31	Bigmouth buffalo	<i>I. cyprinellus</i>	679	99	20	6	1	1	-	-	-	-	-	-	806
32	Black buffalo	<i>I. niger</i>	62	12	6	1	-	-	-	1	7	-	-	-	89
33	Unidentified buffalo	<i>Ictiobus</i> sp.	20	-	-	-	244	2	49	-	-	-	-	-	315
34	Silver redhorse	<i>Moxostoma anisurum</i>	1	-	1	-	-	-	-	-	-	-	-	-	2
35	Golden redhorse	<i>M. erythrurum</i>	8	-	3	-	1	-	1	-	-	-	-	-	13
36	Shorthead redhorse	<i>M. macrolepidotum</i>	22	3	60	3	1	-	-	-	-	-	-	-	89
37	Black bullhead	<i>Ameiurus melas</i>	6	-	11	6	29	2	-	-	-	-	-	-	54
38	Yellow bullhead	<i>A. natalis</i>	10	1	8	6	13	1	-	-	-	-	-	-	39
39	Brown bullhead	<i>A. nebulosus</i>	2	-	10	21	-	-	-	1	1	-	-	-	35
40	Blue catfish	<i>Ictalurus furcatus</i>	-	-	-	-	-	-	-	-	-	-	-	1	1
41	Channel catfish	<i>I. punctatus</i>	305	17	20	1	144	7	62	242	56	-	-	181	1035
42	Tadpole madtom	<i>Noturus gyrinus</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
43	Flathead catfish	<i>Pylodictis olivaris</i>	76	18	4	-	3	1	1	9	16	-	-	1	129
44	Grass pickerel	<i>Esox americanus vermiculatus</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
45	Blackstripe topminnow	<i>Fundulus notatus</i>	2	-	-	-	3	-	4	-	-	-	-	-	9
46	Western mosquitofish	<i>Gambusia affinis</i>	3	-	-	-	130	1	51	-	-	-	-	-	185
47	Brook silverside	<i>Labidesthes sicculus</i>	6	1	-	-	3	-	29	-	-	-	-	-	39



48	White perch	<i>Morone americana</i>	7	13	11	3	-	1	-	-	-	-	-	2	37
49	White bass	<i>M. chrysops</i>	1239	503	1454	110	634	54	185	11	17	-	-	1	4208
50	Yellow bass	<i>M. mississippiensis</i>	40	48	41	40	31	1	-	-	-	-	-	4	205
51	Striped x white bass	<i>M. saxatilis x chrysops</i>	1	1	-	-	-	-	-	-	-	-	-	-	2
52	Green sunfish	<i>Lepomis cyanellus</i>	16	-	-	-	8	-	3	-	-	-	-	-	27
53	Warmouth	<i>L. gulosus</i>	19	-	3	-	13	-	1	-	-	-	-	-	36
54	Orangespotted sunfish	<i>L. humilis</i>	37	-	3	-	51	3	7	-	-	-	-	-	101
55	Bluegill	<i>L. macrochirus</i>	1163	165	425	70	3005	410	1841	1	1	-	-	-	7081
56	Redear sunfish	<i>L. microlophus</i>	4	-	-	-	-	-	-	-	-	-	-	-	4
57	Green x bluegill sunfish	<i>L. cyanellus x macrochirus</i>	3	2	-	-	-	-	2	-	-	-	-	-	7
58	Smallmouth bass	<i>Micropterus dolomieu</i>	1	1	-	-	-	-	-	-	-	-	-	-	2
59	Largemouth bass	<i>M. salmoides</i>	573	146	11	-	23	-	66	-	-	-	-	-	819
60	White crappie	<i>Pomoxis annularis</i>	80	20	100	19	75	8	21	-	1	-	-	-	324
61	Black crappie	<i>P. nigromaculatus</i>	154	28	143	18	28	2	5	-	-	-	-	-	378
62	Unidentified sunfish	Unidentified Centrarchidae	-	-	-	-	-	-	5	-	-	-	-	-	5
63	Mud darter	<i>Etheostoma asprigene</i>	-	-	-	-	1	-	-	-	-	-	-	-	1
64	Logperch	<i>Percina caprodes</i>	10	1	-	-	6	-	1	-	-	-	-	-	18
65	Slenderhead darter	<i>P. phoxocephala</i>	1	-	-	-	2	-	1	-	-	-	-	-	4
66	Sauger	<i>Stizostedion canadense</i>	41	58	5	-	5	-	-	-	-	-	-	-	109
67	Walleye	<i>S. vitreum</i>	2	9	3	-	-	-	-	-	-	-	-	-	14
68	Freshwater drum	<i>Aplodinotus grunniens</i>	549	106	268	120	907	250	85	15	72	-	-	218	2590
			<b>17063</b>	<b>3036</b>	<b>3272</b>	<b>1690</b>	<b>49397</b>	<b>1982</b>	<b>11589</b>	<b>709</b>	<b>1395</b>	<b>0</b>	<b>0</b>	<b>411</b>	<b>90544</b>

**Sampling gears:****D - Day electrofishing****N - Night electrofishing****F - Fyke netting****X - Tandem fyke netting****M - Mini fyke netting****Y - Tandem mini fyke netting****S - Seining****HS - Small hoop netting****HL - Large hoop netting****G - Gill netting****TA - Trammel netting****T- Trawling**

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## La Grange Pool Tables

Table*	Stratified Random Sampling
<a href="#">4.6</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">6.6</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">7.6</a>	Mean catch-per-unit-effort for fish collected by tandem fyke netting
<a href="#">8.6</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">9.6</a>	Mean catch-per-unit-effort for fish collected by tandem mini fyke netting
<a href="#">10.6</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">11.6</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">12.6</a>	Mean catch-per-unit-effort for fish collected by seining
Fixed-site Sampling	
<a href="#">14.6</a>	Mean catch-per-unit-effort for fish collected by day electrofishing
<a href="#">15.6</a>	Mean catch-per-unit-effort for fish collected by night electrofishing
<a href="#">16.6</a>	Mean catch-per-unit-effort for fish collected by fyke netting
<a href="#">17.6</a>	Mean catch-per-unit-effort for fish collected by mini fyke netting
<a href="#">18.6</a>	Mean catch-per-unit-effort for fish collected by small hoop netting
<a href="#">19.6</a>	Mean catch-per-unit-effort for fish collected by large hoop netting
<a href="#">20.6</a>	Mean catch-per-unit-effort for fish collected by seining
<a href="#">21.6</a>	Mean catch-per-unit-effort for fish collected by bottom trawling
<p>*Table numbers are not always in sequence because some gears were not fished in some study areas. Table numbers for each gear type are consistent among study areas.</p>	

Content manager: [Jennie Sauer](#)

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**Table 4.6** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	MCBU	SCB
<b>Spotted gar</b>	0.07	0.11	0.06	
	(0.03)	(0.07)	(0.04)	
<b>Longnose gar</b>	0.02		0.03	0.08
	(0.02)		(0.03)	(0.05)
<b>Shortnose gar</b>	0.28	0.39	0.23	0.44
	(0.10)	(0.13)	(0.14)	(0.26)
<b>Bowfin</b>	0.03	0.11		0.03
	(0.02)	(0.07)		(0.03)
<b>Skipjack herring</b>	2.20	0.19	3.06	0.44
	(0.77)	(0.14)	(1.11)	(0.13)
<b>Gizzard shad</b>	73.17	50.97	82.74	52.33
	(13.78)	(7.56)	(19.61)	(8.77)
<b>Threadfin shad</b>	2.21	0.56	2.91	0.72
	(0.77)	(0.26)	(1.11)	(0.29)
<b>Goldfish</b>	0.19	0.17	0.20	0.19
	(0.06)	(0.09)	(0.08)	(0.09)
<b>Grass carp</b>	1.00	0.28	1.26	1.14

	(0.42)	(0.13)	(0.61)	(0.48)
<b>Red shiner</b>	0.03	0.08		0.19
	(0.02)	(0.06)		(0.12)
<b>Common carp</b>	9.41	18.42	5.31	21.08
	(1.18)	(3.99)	(0.81)	(4.29)
<b>Carp x goldfish hybrid</b>	0.14	0.36	0.06	0.06
	(0.04)	(0.13)	(0.04)	(0.04)
<b>Silver carp</b>	0.21	0.31	0.17	0.25
	(0.08)	(0.18)	(0.09)	(0.09)
<b>Bighead carp</b>	0.74	0.11	1.00	0.33
	(0.48)	(0.05)	(0.70)	(0.20)
<b>Silver chub</b>	0.19		0.26	0.17
	(0.07)		(0.09)	(0.12)
<b>Golden shiner</b>	0.03	0.03	0.03	0.03
	(0.02)	(0.03)	(0.03)	(0.03)
<b>Emerald shiner</b>	5.20	3.00	6.03	4.94
	(2.56)	(1.59)	(3.63)	(1.42)
<b>Silverband shiner</b>	0.05	0.03	0.06	0.08
	(0.04)	(0.03)	(0.06)	(0.05)
<b>Bluntnose minnow</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Bullhead minnow</b>	0.13	0.17	0.11	0.17
	(0.07)	(0.07)	(0.09)	(0.12)
<b>River carpsucker</b>	0.97	1.17	0.91	0.78
	(0.22)	(0.35)	(0.30)	(0.23)
<b>Quillback</b>	0.02		0.03	0.03
	(0.02)		(0.03)	(0.03)
<b>Highfin carpsucker</b>	0.00			0.03
	(0.00)			(0.03)
<b>Smallmouth buffalo</b>	3.93	8.00	2.29	5.97

	(0.47)	(1.26)	(0.48)	(1.37)
<b>Bigmouth buffalo</b>	3.01	8.47	0.74	6.83
	(0.83)	(3.01)	(0.41)	(2.08)
<b>Black buffalo</b>	0.37	1.36		0.33
	(0.15)	(0.58)		(0.20)
<b>Unidentified buffalo</b>	0.13	0.50		0.03
	(0.09)	(0.35)		(0.03)
<b>Silver redhorse</b>	0.00			0.03
	(0.00)			(0.03)
<b>Golden redhorse</b>	0.08		0.11	
	(0.06)		(0.08)	
<b>Shorthead redhorse</b>	0.17	0.08	0.20	0.28
	(0.06)	(0.06)	(0.09)	(0.15)
<b>Black bullhead</b>	0.05	0.11	0.03	
	(0.03)	(0.08)	(0.03)	
<b>Yellow bullhead</b>	0.06	0.25		
	(0.03)	(0.12)		
<b>Brown bullhead</b>	0.01	0.06		
	(0.01)	(0.04)		
<b>Channel catfish</b>	2.34	3.06	2.09	2.11
	(0.37)	(0.91)	(0.41)	(0.48)
<b>Flathead catfish</b>	0.37	0.25	0.40	0.69
	(0.10)	(0.09)	(0.14)	(0.15)
<b>Grass pickerel</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Blackstripe topminnow</b>	0.01	0.06		
	(0.01)	(0.04)		
<b>Western mosquitofish</b>	0.02	0.06		0.03
	(0.01)	(0.04)		(0.03)
<b>Brook silverside</b>	0.06	0.08	0.06	

	(0.03)	(0.05)	(0.04)	
<b>White perch</b>	0.04		0.06	0.03
	(0.03)		(0.04)	(0.03)
<b>White bass</b>	4.53	2.94	5.06	5.42
	(0.84)	(0.56)	(1.19)	(0.94)
<b>Yellow bass</b>	0.07	0.19	0.03	0.03
	(0.03)	(0.08)	(0.03)	(0.03)
<b>Striped x white bass</b>	0.00			0.03
	(0.00)			(0.03)
<b>Green sunfish</b>	0.10	0.36		0.06
	(0.04)	(0.14)		(0.04)
<b>Warmouth</b>	0.12	0.47		0.03
	(0.06)	(0.24)		(0.03)
<b>Orangespotted sunfish</b>	0.25	0.94		0.06
	(0.10)	(0.37)		(0.06)
<b>Bluegill</b>	6.56	24.03	0.31	3.25
	(1.31)	(5.11)	(0.13)	(0.61)
<b>Redear sunfish</b>	0.03	0.11		
	(0.02)	(0.09)		
<b>Green x bluegill sunfish</b>	0.02		0.03	
	(0.02)		(0.03)	
<b>Largemouth bass</b>	2.90	9.17	0.63	2.08
	(0.44)	(1.60)	(0.23)	(0.38)
<b>White crappie</b>	0.40	1.44	0.03	0.22
	(0.13)	(0.49)	(0.03)	(0.15)
<b>Black crappie</b>	0.62	2.31		0.56
	(0.24)	(0.95)		(0.23)
<b>Logperch</b>	0.01	0.06		
	(0.01)	(0.04)		
<b>Slenderhead darter</b>	0.01	0.03		



	(0.01)	(0.03)		
<b>Sauger</b>	0.35	0.31	0.37	0.28
	(0.08)	(0.13)	(0.11)	(0.11)
<b>Freshwater drum</b>	3.87	7.22	2.60	4.39
	(0.68)	(1.50)	(0.81)	(1.06)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/lagrange/tb3\\_ha0003.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/lagrange/tb3_ha0003.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 6.6** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS
<b>Shortnose gar</b>	1.43	1.43
	(0.41)	(0.41)
<b>Bowfin</b>	0.11	0.11
	(0.08)	(0.08)
<b>Skipjack herring</b>	0.07	0.07
	(0.05)	(0.05)
<b>Gizzard shad</b>	8.04	8.04
	(2.41)	(2.42)
<b>Threadfin shad</b>	0.14	0.14
	(0.07)	(0.07)
<b>Goldfish</b>	0.04	0.04
	(0.04)	(0.04)
<b>Grass carp</b>	0.10	0.10
	(0.06)	(0.06)
<b>Common carp</b>	1.82	1.82
	(0.40)	(0.40)
<b>Bighead carp</b>	1.40	1.40

	(0.60)	(0.60)
<b>River carpsucker</b>	1.90	1.90
	(0.51)	(0.51)
<b>Smallmouth buffalo</b>	2.59	2.59
	(0.73)	(0.74)
<b>Bigmouth buffalo</b>	0.68	0.68
	(0.27)	(0.27)
<b>Black buffalo</b>	0.21	0.21
	(0.09)	(0.09)
<b>Silver redhorse</b>	0.03	0.03
	(0.03)	(0.03)
<b>Golden redhorse</b>	0.03	0.03
	(0.03)	(0.03)
<b>Shorthead redhorse</b>	1.95	1.95
	(1.27)	(1.28)
<b>Black bullhead</b>	0.24	0.24
	(0.24)	(0.24)
<b>Yellow bullhead</b>	0.24	0.24
	(0.17)	(0.17)
<b>Brown bullhead</b>	0.25	0.25
	(0.12)	(0.12)
<b>Channel catfish</b>	0.29	0.29
	(0.11)	(0.11)
<b>Flathead catfish</b>	0.03	0.03
	(0.03)	(0.03)
<b>White perch</b>	0.21	0.21
	(0.11)	(0.11)
<b>White bass</b>	6.46	6.46
	(1.67)	(1.68)
<b>Yellow bass</b>	1.05	1.05

	(0.34)	(0.34)
<b>Warmouth</b>	0.11	0.11
	(0.06)	(0.06)
<b>Orangespotted sunfish</b>	0.11	0.11
	(0.08)	(0.08)
<b>Bluegill</b>	13.77	13.77
	(7.72)	(7.75)
<b>Largemouth bass</b>	0.25	0.25
	(0.10)	(0.10)
<b>White crappie</b>	3.02	3.02
	(0.90)	(0.90)
<b>Black crappie</b>	3.02	3.02
	(0.77)	(0.77)
<b>Freshwater drum</b>	6.50	6.50
	(1.60)	(1.61)

**Sampling stratum:  
BWCS - Backwater, contiguous, shoreline**

*Last updated on August 26, 2004*

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**Table 7.6** Mean catch-per-unit-effort and (standard error) for fish collected by tandem fyke netting in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO
Shortnose gar	0.57	0.57
	(0.16)	(0.16)
Skipjack herring	0.06	0.06
	(0.04)	(0.04)
Gizzard shad	29.29	29.29
	(14.21)	(14.23)
Threadfin shad	0.03	0.03
	(0.03)	(0.03)
Goldfish	0.03	0.03
	(0.03)	(0.03)
Common carp	1.04	1.04
	(0.34)	(0.34)
Bighead carp	4.71	4.71
	(2.59)	(2.59)
River carpsucker	0.33	0.33
	(0.20)	(0.20)
Smallmouth buffalo	0.11	0.11

	(0.06)	(0.06)
<b>Bigmouth buffalo</b>	0.17	0.17
	(0.09)	(0.09)
<b>Black buffalo</b>	0.03	0.03
	(0.03)	(0.03)
<b>Shorthead redhorse</b>	0.08	0.08
	(0.06)	(0.06)
<b>Black bullhead</b>	0.17	0.17
	(0.15)	(0.15)
<b>Yellow bullhead</b>	0.17	0.17
	(0.08)	(0.08)
<b>Brown bullhead</b>	0.61	0.61
	(0.28)	(0.28)
<b>Channel catfish</b>	0.03	0.03
	(0.03)	(0.03)
<b>White perch</b>	0.09	0.09
	(0.05)	(0.05)
<b>White bass</b>	3.08	3.08
	(0.66)	(0.66)
<b>Yellow bass</b>	1.12	1.12
	(0.53)	(0.53)
<b>Bluegill</b>	1.96	1.96
	(0.72)	(0.73)
<b>White crappie</b>	0.54	0.54
	(0.21)	(0.21)
<b>Black crappie</b>	0.52	0.52
	(0.19)	(0.19)
<b>Freshwater drum</b>	3.40	3.40
	(0.87)	(0.87)

**Sampling stratum:**

## **BWCO - Backwater, contiguous, offshore**

*Last updated on August 26, 2004*

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**Table 8.6** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	MCBU	SCB
<b>Longnose gar</b>	0.03		0.05	
	(0.03)		(0.05)	
<b>Shortnose gar</b>	0.38	0.07	0.49	0.58
	(0.15)	(0.05)	(0.22)	(0.41)
<b>Skipjack herring</b>	0.10	0.41		
	(0.07)	(0.27)		
<b>Gizzard shad</b>	39.45	11.15	47.23	80.54
	(13.68)	(3.29)	(19.25)	(58.72)
<b>Threadfin shad</b>	1.45	0.31	1.53	6.82
	(0.66)	(0.24)	(0.86)	(5.85)
<b>Grass carp</b>	0.27	0.17	0.27	0.88
	(0.13)	(0.07)	(0.18)	(0.67)
<b>Red shiner</b>	0.65	0.53	0.72	0.24
	(0.31)	(0.53)	(0.39)	(0.14)
<b>Common carp</b>	16.85	1.53	23.55	1.02
	(16.00)	(1.13)	(22.99)	(0.54)
<b>Silver carp</b>	0.01			0.17



	(0.01)			(0.13)
<b>Bighead carp</b>	2.26	0.13	2.03	17.77
	(1.06)	(0.06)	(1.06)	(16.85)
<b>Silver chub</b>	0.49		0.57	2.02
	(0.17)		(0.22)	(1.57)
<b>Golden shiner</b>	0.15		0.21	0.11
	(0.07)		(0.11)	(0.08)
<b>Emerald shiner</b>	90.09	79.43	83.69	248.26
	(31.62)	(68.69)	(36.74)	(132.29)
<b>River shiner</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Silverband shiner</b>	0.19	0.22	0.18	0.24
	(0.08)	(0.17)	(0.10)	(0.18)
<b>Bluntnose minnow</b>	0.33	0.46	0.27	0.54
	(0.20)	(0.29)	(0.27)	(0.42)
<b>Bullhead minnow</b>	0.87	1.48	0.68	0.35
	(0.38)	(1.06)	(0.39)	(0.12)
<b>Creek chub</b>	0.00			0.06
	(0.00)			(0.06)
<b>River carpsucker</b>	0.04	0.03	0.04	0.05
	(0.03)	(0.03)	(0.04)	(0.05)
<b>Smallmouth buffalo</b>	0.02	0.07		
	(0.02)	(0.07)		
<b>Bigmouth buffalo</b>	0.01	0.04		
	(0.01)	(0.04)		
<b>Unidentified buffalo</b>	0.67	0.70	0.18	7.95
	(0.33)	(0.49)	(0.10)	(6.66)
<b>Shorthead redhorse</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Black bullhead</b>	0.33	0.71	0.21	0.17

	(0.19)	(0.50)	(0.21)	(0.09)
<b>Yellow bullhead</b>	0.11	0.27	0.04	0.17
	(0.05)	(0.15)	(0.04)	(0.09)
<b>Channel catfish</b>	2.42	0.13	3.34	1.36
	(1.36)	(0.08)	(1.95)	(0.44)
<b>Tadpole madtom</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Flathead catfish</b>	0.03		0.05	
	(0.03)		(0.05)	
<b>Blackstripe topminnow</b>	0.02	0.07		0.06
	(0.01)	(0.05)		(0.06)
<b>Western mosquitofish</b>	0.61	1.25	0.39	0.30
	(0.21)	(0.59)	(0.21)	(0.11)
<b>Brook silverside</b>	0.09		0.13	
	(0.07)		(0.10)	
<b>White bass</b>	5.76	4.33	6.20	7.21
	(1.09)	(2.95)	(1.12)	(2.02)
<b>Yellow bass</b>	0.10	0.03	0.14	
	(0.05)	(0.03)	(0.07)	
<b>Green sunfish</b>	0.05	0.03	0.04	0.16
	(0.03)	(0.03)	(0.04)	(0.16)
<b>Warmouth</b>	0.08	0.13	0.04	0.39
	(0.04)	(0.08)	(0.04)	(0.33)
<b>Orangespotted sunfish</b>	0.37	1.11	0.09	0.51
	(0.22)	(0.81)	(0.09)	(0.29)
<b>Bluegill</b>	27.71	65.29	14.12	22.93
	(8.08)	(24.93)	(7.07)	(9.11)
<b>Largemouth bass</b>	0.18	0.16	0.17	0.47
	(0.07)	(0.07)	(0.10)	(0.41)
<b>White crappie</b>	0.50	1.22	0.18	1.40

	(0.18)	(0.66)	(0.08)	(0.84)
<b>Black crappie</b>	0.15	0.16	0.13	0.30
	(0.07)	(0.08)	(0.10)	(0.24)
<b>Mud darter</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Logperch</b>	0.04		0.04	0.29
	(0.03)		(0.04)	(0.24)
<b>Sauger</b>	0.06		0.09	0.05
	(0.06)		(0.09)	(0.05)
<b>Freshwater drum</b>	10.01	2.34	12.62	13.39
	(2.46)	(0.59)	(3.51)	(4.37)

**Sampling strata:****BWCS - Backwater, contiguous, shoreline****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/lagrange/tb3\\_ha0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/lagrange/tb3_ha0006.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 9.6** Mean catch-per-unit-effort and (standard error) for fish collected by tandem mini fyke netting in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCO
<b>Shortnose gar</b>	0.03	0.03
	(0.03)	(0.03)
<b>Skipjack herring</b>	0.11	0.11
	(0.07)	(0.07)
<b>Gizzard shad</b>	29.48	29.48
	(15.98)	(16.00)
<b>Threadfin shad</b>	1.71	1.71
	(0.94)	(0.95)
<b>Grass carp</b>	0.05	0.05
	(0.05)	(0.05)
<b>Common carp</b>	0.45	0.45
	(0.21)	(0.21)
<b>Bighead carp</b>	0.34	0.34
	(0.33)	(0.34)
<b>Silver chub</b>	0.11	0.11
	(0.09)	(0.09)
<b>Emerald shiner</b>	2.25	2.25

	(1.46)	(1.46)
<b>Silverband shiner</b>	0.05	0.05
	(0.05)	(0.05)
<b>Bullhead minnow</b>	0.06	0.06
	(0.04)	(0.04)
<b>Bigmouth buffalo</b>	0.03	0.03
	(0.03)	(0.03)
<b>Unidentified buffalo</b>	0.06	0.06
	(0.04)	(0.04)
<b>Black bullhead</b>	0.05	0.05
	(0.05)	(0.05)
<b>Yellow bullhead</b>	0.03	0.03
	(0.03)	(0.03)
<b>Channel catfish</b>	0.20	0.20
	(0.09)	(0.09)
<b>Flathead catfish</b>	0.03	0.03
	(0.03)	(0.03)
<b>Western mosquitofish</b>	0.03	0.03
	(0.03)	(0.03)
<b>White perch</b>	0.03	0.03
	(0.03)	(0.03)
<b>White bass</b>	1.53	1.53
	(0.73)	(0.73)
<b>Yellow bass</b>	0.03	0.03
	(0.03)	(0.03)
<b>Orangespotted sunfish</b>	0.08	0.08
	(0.06)	(0.06)
<b>Bluegill</b>	11.27	11.27
	(7.73)	(7.74)
<b>White crappie</b>	0.23	0.23

	(0.09)	(0.09)
<b>Black crappie</b>	0.06	0.06
	(0.04)	(0.04)
<b>Freshwater drum</b>	7.10	7.10
	(2.83)	(2.84)

**Sampling stratum:  
BWCO - Backwater, contiguous, offshore**

*Last updated on August 26, 2004*

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**Table 10.6** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Gizzard shad</b>	0.16	0.16	0.03
	(0.14)	(0.14)	(0.03)
<b>Common carp</b>	3.63	3.64	3.57
	(0.68)	(0.73)	(1.03)
<b>Bighead carp</b>	0.00		0.05
	(0.00)		(0.04)
<b>River carpsucker</b>	0.00		0.03
	(0.00)		(0.03)
<b>Smallmouth buffalo</b>	0.23	0.19	0.86
	(0.07)	(0.07)	(0.53)
<b>Black buffalo</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Brown bullhead</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Channel catfish</b>	2.22	2.12	3.76
	(0.57)	(0.60)	(1.63)
<b>Flathead catfish</b>	0.14	0.15	0.03

	(0.06)	(0.06)	(0.03)
<b>White bass</b>	0.07	0.07	0.19
	(0.06)	(0.07)	(0.19)
<b>Bluegill</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Freshwater drum</b>	0.17	0.17	0.14
	(0.07)	(0.08)	(0.07)

**Sampling strata:**

**MCBU - Main channel border, unstructured**

**SCB - Side channel border**

*Last updated on August 26, 2004*

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**Table 11.6** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	MCBU	SCB
<b>Gizzard shad</b>	0.09	0.08	0.17
	(0.04)	(0.05)	(0.07)
<b>Grass carp</b>	0.04	0.04	0.06
	(0.03)	(0.03)	(0.06)
<b>Common carp</b>	2.11	2.11	2.04
	(0.54)	(0.58)	(0.60)
<b>Silver carp</b>	0.00		0.05
	(0.00)		(0.05)
<b>Bighead carp</b>	0.04	0.04	0.06
	(0.03)	(0.03)	(0.06)
<b>River carpsucker</b>	0.01		0.08
	(0.00)		(0.06)
<b>Quillback</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Smallmouth buffalo</b>	4.42	4.14	8.75
	(0.87)	(0.91)	(2.94)
<b>Black buffalo</b>	0.02	0.02	0.08

	(0.02)	(0.02)	(0.04)
<b>Brown bullhead</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Channel catfish</b>	0.45	0.46	0.39
	(0.15)	(0.16)	(0.10)
<b>Flathead catfish</b>	0.08	0.09	0.03
	(0.04)	(0.04)	(0.03)
<b>White bass</b>	0.04	0.02	0.41
	(0.03)	(0.02)	(0.41)
<b>Bluegill</b>	0.00		0.03
	(0.00)		(0.03)
<b>White crappie</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Freshwater drum</b>	0.65	0.68	0.28
	(0.17)	(0.19)	(0.15)

**Sampling strata:****MCBU - Main channel border, unstructured****SCB - Side channel border***Last updated on August 26, 2004*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2000/lagrange/tb3\\_ha0009.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2000/lagrange/tb3_ha0009.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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**Table 12.6** Mean catch-per-unit-effort and (standard error) for fish collected by seining in La Grange Pool of the Illinois River using stratified random sampling during 2000. The statistics under ALL pertain to unbiased means over all strata sampled by this gear (as indicated by nonmissing entries below and by [Table 2.6](#)). See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	ALL	BWCS	MCBU	SCB
Longnose gar	0.04		0.06	0.04
	(0.04)		(0.06)	(0.04)
Shortnose gar	0.03	0.04	0.03	
	(0.02)	(0.04)	(0.03)	
Skipjack herring	0.60		0.79	1.00
	(0.26)		(0.37)	(0.64)
Gizzard shad	57.40	7.79	78.76	11.29
	(25.65)	(3.63)	(36.86)	(3.68)
Threadfin shad	1.19	2.00	0.91	0.92
	(0.43)	(1.39)	(0.35)	(0.47)
Goldfish	0.01			0.13
	(0.00)			(0.09)
Grass carp	0.29	0.13	0.24	2.04
	(0.08)	(0.09)	(0.09)	(0.81)
Red shiner	0.21	0.21	0.15	1.25
	(0.08)	(0.17)	(0.09)	(0.75)
Common carp	0.17	0.17	0.12	0.92

	(0.06)	(0.13)	(0.06)	(0.58)
<b>Carp x goldfish hybrid</b>	0.06	0.08	0.06	
	(0.04)	(0.08)	(0.04)	
<b>Silver carp</b>	0.02			0.46
	(0.02)			(0.42)
<b>Bighead carp</b>	1.61	0.04	2.21	1.38
	(0.62)	(0.04)	(0.88)	(0.73)
<b>Silver chub</b>	0.50	0.13	0.62	0.83
	(0.19)	(0.07)	(0.27)	(0.46)
<b>Golden shiner</b>	0.00			0.08
	(0.00)			(0.08)
<b>Emerald shiner</b>	25.84	8.92	26.62	109.79
	(6.45)	(4.39)	(8.26)	(60.61)
<b>Spottail shiner</b>	0.04	0.17		0.04
	(0.04)	(0.17)		(0.04)
<b>Silverband shiner</b>	0.07	0.17	0.03	0.04
	(0.03)	(0.10)	(0.03)	(0.04)
<b>Bluntnose minnow</b>	0.04	0.04	0.03	0.17
	(0.02)	(0.04)	(0.03)	(0.10)
<b>Bullhead minnow</b>	0.75	2.17	0.24	0.71
	(0.23)	(0.84)	(0.11)	(0.31)
<b>River carpsucker</b>	0.04		0.06	
	(0.04)		(0.06)	
<b>Smallmouth buffalo</b>	0.01			0.21
	(0.01)			(0.13)
<b>Unidentified buffalo</b>	0.16	0.50		0.79
	(0.08)	(0.29)		(0.44)
<b>Golden redhorse</b>	0.00			0.04
	(0.00)			(0.04)
<b>Channel catfish</b>	0.47		0.59	1.25

	(0.14)		(0.19)	(0.68)
<b>Flathead catfish</b>	0.02		0.03	
	(0.02)		(0.03)	
<b>Blackstripe topminnow</b>	0.04	0.17		
	(0.03)	(0.13)		
<b>Western mosquitofish</b>	0.44	1.25	0.15	0.25
	(0.15)	(0.47)	(0.12)	(0.15)
<b>Brook silverside</b>	0.33	1.13	0.06	
	(0.18)	(0.69)	(0.06)	
<b>White bass</b>	1.64	0.67	1.85	3.83
	(0.39)	(0.29)	(0.53)	(2.21)
<b>Green sunfish</b>	0.04		0.06	0.04
	(0.03)		(0.04)	(0.04)
<b>Warmouth</b>	0.01	0.04		
	(0.01)	(0.04)		
<b>Orangespotted sunfish</b>	0.02	0.08		0.04
	(0.01)	(0.06)		(0.04)
<b>Bluegill</b>	17.04	47.33	6.03	14.00
	(7.85)	(29.58)	(2.76)	(7.79)
<b>Green x bluegill sunfish</b>	0.02	0.08		
	(0.02)	(0.08)		
<b>Largemouth bass</b>	0.45	1.25	0.09	1.38
	(0.19)	(0.72)	(0.06)	(0.62)
<b>White crappie</b>	0.19	0.71		0.08
	(0.10)	(0.40)		(0.06)
<b>Black crappie</b>	0.03	0.08		0.13
	(0.02)	(0.08)		(0.09)
<b>Unidentified sunfish</b>	0.02	0.04		0.17
	(0.01)	(0.04)		(0.13)
<b>Logperch</b>	0.00			0.04

	(0.00)			(0.04)
<b>Slenderhead darter</b>	0.02		0.03	
	(0.02)		(0.03)	
<b>Freshwater drum</b>	0.51	0.21	0.59	1.13
	(0.14)	(0.21)	(0.19)	(0.55)

**Sampling strata:**

**BWCS - Backwater, contiguous, shoreline**

**MCBU - Main channel border, unstructured**

**SCB - Side channel border**

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**Table 14.6** Mean catch-per-unit-effort and (standard error) for fish collected by day electrofishing in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	SCB	TWZ
<b>Longnose gar</b>	0.00	0.17
	(0.00)	(0.11)
<b>Shortnose gar</b>	0.17	0.33
	(0.17)	(0.19)
<b>Bowfin</b>	0.00	0.17
	(0.00)	(0.11)
<b>Skipjack herring</b>	0.50	1.58
	(0.34)	(0.53)
<b>Gizzard shad</b>	67.33	59.75
	(43.21)	(14.88)
<b>Threadfin shad</b>	1.33	1.25
	(0.49)	(0.37)
<b>Goldfish</b>	0.17	0.17
	(0.17)	(0.11)
<b>Grass carp</b>	0.83	0.33
	(0.40)	(0.19)
<b>Common carp</b>	14.17	11.42
	(3.24)	(3.23)

<b>Carp x goldfish hybrid</b>	0.00	0.33
	(0.00)	(0.19)
<b>Silver carp</b>	0.67	0.58
	(0.49)	(0.34)
<b>Bighead carp</b>	0.33	0.33
	(0.33)	(0.14)
<b>Silver chub</b>	0.00	0.08
	(0.00)	(0.08)
<b>Golden shiner</b>	0.00	0.08
	(0.00)	(0.08)
<b>Emerald shiner</b>	14.67	16.92
	(11.93)	(15.29)
<b>River carpsucker</b>	0.17	0.50
	(0.17)	(0.26)
<b>Quillback</b>	0.00	0.08
	(0.00)	(0.08)
<b>Highfin carpsucker</b>	0.00	0.08
	(0.00)	(0.08)
<b>Smallmouth buffalo</b>	7.00	11.75
	(1.41)	(5.68)
<b>Bigmouth buffalo</b>	16.17	0.42
	(3.08)	(0.15)
<b>Black buffalo</b>	0.17	0.00
	(0.17)	(0.00)
<b>Unidentified buffalo</b>	0.00	0.08
	(0.00)	(0.08)
<b>Golden redhorse</b>	0.00	0.33
	(0.00)	(0.19)
<b>Shorthead redhorse</b>	0.33	0.00
	(0.21)	(0.00)



<b>Black bullhead</b>	0.00	0.08
	(0.00)	(0.08)
<b>Yellow bullhead</b>	0.00	0.08
	(0.00)	(0.08)
<b>Channel catfish</b>	1.00	3.33
	(0.45)	(2.19)
<b>Flathead catfish</b>	2.17	1.25
	(0.87)	(0.39)
<b>Brook silverside</b>	0.00	0.08
	(0.00)	(0.08)
<b>White perch</b>	0.00	0.33
	(0.00)	(0.14)
<b>White bass</b>	7.50	59.67
	(2.38)	(21.65)
<b>Yellow bass</b>	0.00	2.58
	(0.00)	(1.10)
<b>Green sunfish</b>	0.00	0.08
	(0.00)	(0.08)
<b>Warmouth</b>	0.00	0.08
	(0.00)	(0.08)
<b>Orangespotted sunfish</b>	0.17	0.00
	(0.17)	(0.00)
<b>Bluegill</b>	5.50	11.42
	(2.01)	(4.13)
<b>Green x bluegill sunfish</b>	0.00	0.17
	(0.00)	(0.11)
<b>Smallmouth bass</b>	0.00	0.08
	(0.00)	(0.08)
<b>Largemouth bass</b>	2.50	10.92
	(0.50)	(4.09)

<b>White crappie</b>	0.33	1.42
	(0.21)	(0.65)
<b>Black crappie</b>	0.67	3.92
	(0.33)	(1.81)
<b>Logperch</b>	0.00	0.67
	(0.00)	(0.67)
<b>Sauger</b>	0.00	0.58
	(0.00)	(0.29)
<b>Walleye</b>	0.00	0.17
	(0.00)	(0.17)
<b>Freshwater drum</b>	1.83	2.42
	(1.05)	(0.77)

**Sampling strata:**  
**SCB - Side channel border**  
**TWZ - Tailwater**

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**Table 15.6** Mean catch-per-unit-effort and (standard error) for fish collected by night electrofishing in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	SCB	TWZ
<b>Spotted gar</b>	0.50	0.00
	(0.34)	(0.00)
<b>Longnose gar</b>	1.33	0.17
	(0.99)	(0.11)
<b>Shortnose gar</b>	0.00	1.75
	(0.00)	(0.57)
<b>Bowfin</b>	0.00	0.25
	(0.00)	(0.25)
<b>Skipjack herring</b>	0.50	0.67
	(0.34)	(0.50)
<b>Gizzard shad</b>	40.83	68.58
	(15.07)	(16.09)
<b>Threadfin shad</b>	0.17	0.42
	(0.17)	(0.23)
<b>Goldfish</b>	0.00	0.25
	(0.00)	(0.18)
<b>Grass carp</b>	1.00	0.67
	(0.63)	(0.28)

<b>Red shiner</b>	0.17	0.00
	(0.17)	(0.00)
<b>Common carp</b>	15.83	10.25
	(5.30)	(2.75)
<b>Carp x goldfish hybrid</b>	0.17	0.33
	(0.17)	(0.19)
<b>Silver carp</b>	2.33	0.17
	(1.80)	(0.11)
<b>Bighead carp</b>	0.17	0.50
	(0.17)	(0.23)
<b>Emerald shiner</b>	2.00	4.67
	(0.63)	(1.61)
<b>River carpsucker</b>	0.50	1.92
	(0.34)	(1.02)
<b>Smallmouth buffalo</b>	8.83	20.92
	(2.70)	(8.18)
<b>Bigmouth buffalo</b>	13.00	1.75
	(3.64)	(0.74)
<b>Black buffalo</b>	0.83	0.58
	(0.54)	(0.29)
<b>Shorthead redhorse</b>	0.33	0.08
	(0.33)	(0.08)
<b>Yellow bullhead</b>	0.00	0.08
	(0.00)	(0.08)
<b>Channel catfish</b>	0.50	1.17
	(0.22)	(0.68)
<b>Flathead catfish</b>	1.83	0.58
	(0.54)	(0.23)
<b>Brook silverside</b>	0.00	0.08
	(0.00)	(0.08)

<b>White perch</b>	0.00	1.08
	(0.00)	(0.71)
<b>White bass</b>	2.50	40.67
	(1.18)	(12.80)
<b>Yellow bass</b>	0.17	3.92
	(0.17)	(2.04)
<b>Striped x white bass</b>	0.00	0.08
	(0.00)	(0.08)
<b>Bluegill</b>	7.33	10.08
	(3.45)	(2.62)
<b>Green x bluegill sunfish</b>	0.17	0.08
	(0.17)	(0.08)
<b>Smallmouth bass</b>	0.00	0.08
	(0.00)	(0.08)
<b>Largemouth bass</b>	3.83	10.25
	(1.40)	(4.19)
<b>White crappie</b>	0.50	1.42
	(0.50)	(0.53)
<b>Black crappie</b>	0.50	2.08
	(0.34)	(0.47)
<b>Logperch</b>	0.00	0.08
	(0.00)	(0.08)
<b>Sauger</b>	0.00	4.83
	(0.00)	(2.08)
<b>Walleye</b>	0.00	0.75
	(0.00)	(0.41)
<b>Freshwater drum</b>	8.17	4.75
	(3.04)	(2.53)

**Sampling strata:  
SCB - Side channel border**

## TWZ - Tailwater

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**Table 16.6** Mean catch-per-unit-effort and (standard error) for fish collected by fyke netting in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Shortnose gar	1.43
	(0.52)
Bowfin	0.17
	(0.12)
Skipjack herring	0.59
	(0.43)
Gizzard shad	5.65
	(2.04)
Threadfin shad	0.48
	(0.48)
Goldfish	0.08
	(0.08)
Grass carp	0.09
	(0.09)
Common carp	1.17
	(0.62)
Carp x goldfish hybrid	0.17
	(0.11)

<b>Silver carp</b>	0.25
	(0.18)
<b>Bighead carp</b>	2.68
	(2.24)
<b>River carpsucker</b>	0.42
	(0.23)
<b>Quillback</b>	0.08
	(0.08)
<b>Smallmouth buffalo</b>	0.34
	(0.15)
<b>Golden redhorse</b>	0.17
	(0.17)
<b>Shorthead redhorse</b>	0.42
	(0.23)
<b>Black bullhead</b>	0.34
	(0.26)
<b>Yellow bullhead</b>	0.09
	(0.09)
<b>Brown bullhead</b>	0.26
	(0.26)
<b>Channel catfish</b>	1.01
	(0.69)
<b>Flathead catfish</b>	0.25
	(0.18)
<b>White perch</b>	0.42
	(0.35)
<b>White bass</b>	108.96
	(78.20)
<b>Yellow bass</b>	0.93
	(0.24)



<b>Bluegill</b>	2.81
	(1.53)
<b>Largemouth bass</b>	0.33
	(0.14)
<b>White crappie</b>	1.10
	(0.23)
<b>Black crappie</b>	4.73
	(1.81)
<b>Sauger</b>	0.43
	(0.20)
<b>Walleye</b>	0.25
	(0.13)
<b>Freshwater drum</b>	6.98
	(2.53)

**Sampling stratum:  
TWZ - Tailwater**

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**Table 17.6** Mean catch-per-unit-effort and (standard error) for fish collected by mini fyke netting in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	SCB	TWZ
<b>Longnose gar</b>	0.00	0.17
	(0.00)	(0.11)
<b>Shortnose gar</b>	0.34	0.33
	(0.22)	(0.25)
<b>Skipjack herring</b>	10.53	0.34
	(10.33)	(0.34)
<b>Gizzard shad</b>	67.61	833.06
	(43.65)	(628.42)
<b>Threadfin shad</b>	1.39	2.30
	(1.00)	(1.62)
<b>Grass carp</b>	1.63	2.49
	(1.03)	(2.23)
<b>Red shiner</b>	0.00	0.08
	(0.00)	(0.08)
<b>Common carp</b>	0.81	0.34
	(0.52)	(0.26)
<b>Silver carp</b>	0.16	0.00
	(0.16)	(0.00)

<b>Bighead carp</b>	0.83	25.26
	(0.83)	(23.53)
<b>Silver chub</b>	3.20	0.00
	(2.26)	(0.00)
<b>Golden shiner</b>	0.00	0.25
	(0.00)	(0.18)
<b>Emerald shiner</b>	121.16	1688.33
	(90.40)	(1616.08)
<b>Silverband shiner</b>	0.00	0.08
	(0.00)	(0.08)
<b>Bluntnose minnow</b>	0.34	0.00
	(0.22)	(0.00)
<b>Fathead minnow</b>	0.00	0.08
	(0.00)	(0.08)
<b>Bullhead minnow</b>	1.36	0.34
	(0.82)	(0.19)
<b>River carpsucker</b>	0.16	0.00
	(0.16)	(0.00)
<b>Smallmouth buffalo</b>	0.00	0.17
	(0.00)	(0.11)
<b>Unidentified buffalo</b>	13.49	0.00
	(9.12)	(0.00)
<b>Golden redhorse</b>	0.00	0.08
	(0.00)	(0.08)
<b>Yellow bullhead</b>	0.00	0.08
	(0.00)	(0.08)
<b>Channel catfish</b>	0.80	2.89
	(0.62)	(1.19)
<b>Flathead catfish</b>	0.00	0.17
	(0.00)	(0.11)

<b>Western mosquitofish</b>	0.32	6.62
	(0.20)	(6.62)
<b>White bass</b>	11.78	13.99
	(7.02)	(6.24)
<b>Yellow bass</b>	0.00	2.24
	(0.00)	(1.57)
<b>Green sunfish</b>	0.00	0.25
	(0.00)	(0.18)
<b>Warmouth</b>	0.00	0.08
	(0.00)	(0.08)
<b>Orangespotted sunfish</b>	0.51	0.17
	(0.51)	(0.11)
<b>Bluegill</b>	28.69	10.61
	(22.50)	(8.53)
<b>Largemouth bass</b>	0.16	0.42
	(0.16)	(0.23)
<b>White crappie</b>	0.63	0.50
	(0.40)	(0.23)
<b>Black crappie</b>	0.00	1.28
	(0.00)	(0.60)
<b>Slenderhead darter</b>	0.16	0.09
	(0.16)	(0.09)
<b>Sauger</b>	0.00	0.17
	(0.00)	(0.11)
<b>Freshwater drum</b>	33.73	9.56
	(15.29)	(3.86)

**Sampling strata:**  
**SCB - Side channel border**  
**TWZ - Tailwater**

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**Table 18.6** Mean catch-per-unit-effort and (standard error) for fish collected by small hoop netting in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	SCB	TWZ
Common carp	1.72	2.30
	(1.72)	(0.98)
Smallmouth buffalo	0.09	0.08
	(0.09)	(0.08)
Channel catfish	0.00	0.08
	(0.00)	(0.06)
Flathead catfish	0.00	0.04
	(0.00)	(0.04)
White bass	0.00	0.04
	(0.00)	(0.04)
Freshwater drum	0.00	0.08
	(0.00)	(0.06)

**Sampling strata:**
**SCB - Side channel border**
**TWZ - Tailwater**

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**Table 19.6** Mean catch-per-unit-effort and (standard error) for fish collected by large hoop netting in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	SCB	TWZ
<b>Gizzard shad</b>	0.00	0.04
	(0.00)	(0.04)
<b>Common carp</b>	5.25	6.96
	(1.57)	(3.52)
<b>Carp x goldfish hybrid</b>	0.00	0.04
	(0.00)	(0.04)
<b>River carpsucker</b>	0.00	0.12
	(0.00)	(0.12)
<b>Smallmouth buffalo</b>	1.37	10.82
	(0.91)	(5.98)
<b>Black buffalo</b>	0.00	0.12
	(0.00)	(0.09)
<b>Channel catfish</b>	0.00	0.84
	(0.00)	(0.54)
<b>Flathead catfish</b>	0.00	0.46
	(0.00)	(0.20)
<b>White bass</b>	0.00	0.04
	(0.00)	(0.04)



<b>Freshwater drum</b>	0.77	0.88
	(0.49)	(0.42)

**Sampling strata:**  
**SCB - Side channel border**  
**TWZ - Tailwater**

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**Table 20.6** Mean catch-per-unit-effort and (standard error) for fish collected by seining in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	SCB
Skipjack herring	0.20
	(0.13)
Gizzard shad	61.00
	(28.05)
Threadfin shad	0.20
	(0.13)
Grass carp	1.60
	(1.01)
Red shiner	0.40
	(0.27)
Common carp	1.50
	(0.79)
Silver carp	0.10
	(0.10)
Bighead carp	6.20
	(4.91)
Silver chub	2.10
	(0.75)

<b>Emerald shiner</b>	97.10
	(36.40)
<b>Bullhead minnow</b>	1.10
	(0.35)
<b>River carpsucker</b>	0.30
	(0.21)
<b>Unidentified buffalo</b>	1.80
	(0.79)
<b>Channel catfish</b>	1.20
	(0.70)
<b>Western mosquitofish</b>	1.00
	(0.56)
<b>White bass</b>	1.40
	(0.58)
<b>Orangespotted sunfish</b>	0.40
	(0.40)
<b>Bluegill</b>	16.40
	(5.83)
<b>White crappie</b>	0.20
	(0.13)
<b>Freshwater drum</b>	3.30
	(0.90)

**Sampling stratum:  
SCB - Side channel border**

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**Table 21.6** Mean catch-per-unit-effort and (standard error) for fish collected by bottom trawling in La Grange Pool of the Illinois River using fixed-site sampling during 2000. See [Methods](#) for definitions of catch-per-unit-effort and standard error. Scientific names for the species listed can be found in [Table 1](#).

Common name	TWZ
Shovelnose sturgeon	0.04
	(0.04)
Common carp	0.08
	(0.06)
Blue catfish	0.04
	(0.04)
Channel catfish	7.54
	(2.93)
Flathead catfish	0.04
	(0.04)
White perch	0.08
	(0.06)
White bass	0.04
	(0.04)
Yellow bass	0.17
	(0.13)
Freshwater drum	9.08
	(3.89)

## Sampling stratum: TWZ - Tailwater

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## La Grange Pool Length Distributions

Length distributions (length) as a percentage of catch (percent) for selected species of interest collected by the Long Term Resource Monitoring Program. Fish species are listed in phylogenetical order following Robins et al. (1991) nomenclature. In some instances, meaningful biological interpretation of these distributions may be limited by small sample size or size selectivity of the gear (Anderson and Neumann 1996). Some fish histograms with small sample sizes (<100) are included because of local interest, while others were omitted (reach dependent). Scientific names for the species listed can be found in [Table 1](#).

Figure*	Species	Method
<a href="#">2.6</a>	Gizzard shad	Electrofishing
<a href="#">3.6</a>	Common carp	Electrofishing
<a href="#">4.6</a>	Smallmouth buffalo	Electrofishing
<a href="#">5.6</a>	Smallmouth buffalo	Hoop netting
<a href="#">6.6</a>	Channel catfish	Electrofishing
<a href="#">7.6</a>	Channel catfish	Hoop netting
<a href="#">10.6</a>	White bass	Electrofishing
<a href="#">11.6</a>	Bluegill	Electrofishing
<a href="#">12.6</a>	Bluegill	Fyke netting
<a href="#">13.6</a>	Largemouth bass	Electrofishing
<a href="#">14.6</a>	White crappie	Fyke netting
<a href="#">15.6</a>	Black crappie	Fyke netting
<a href="#">16.6</a>	Sauger	Electrofishing

<a href="#">17.6</a>	Walleye	Electrofishing
<a href="#">18.6</a>	Freshwater drum	Electrofishing
<a href="#">19.6</a>	Freshwater drum	Fyke netting
*Figure numbers are not always in sequence because some species were not caught in some study areas. Figure numbers for each species and gear type are consistent among study areas.		

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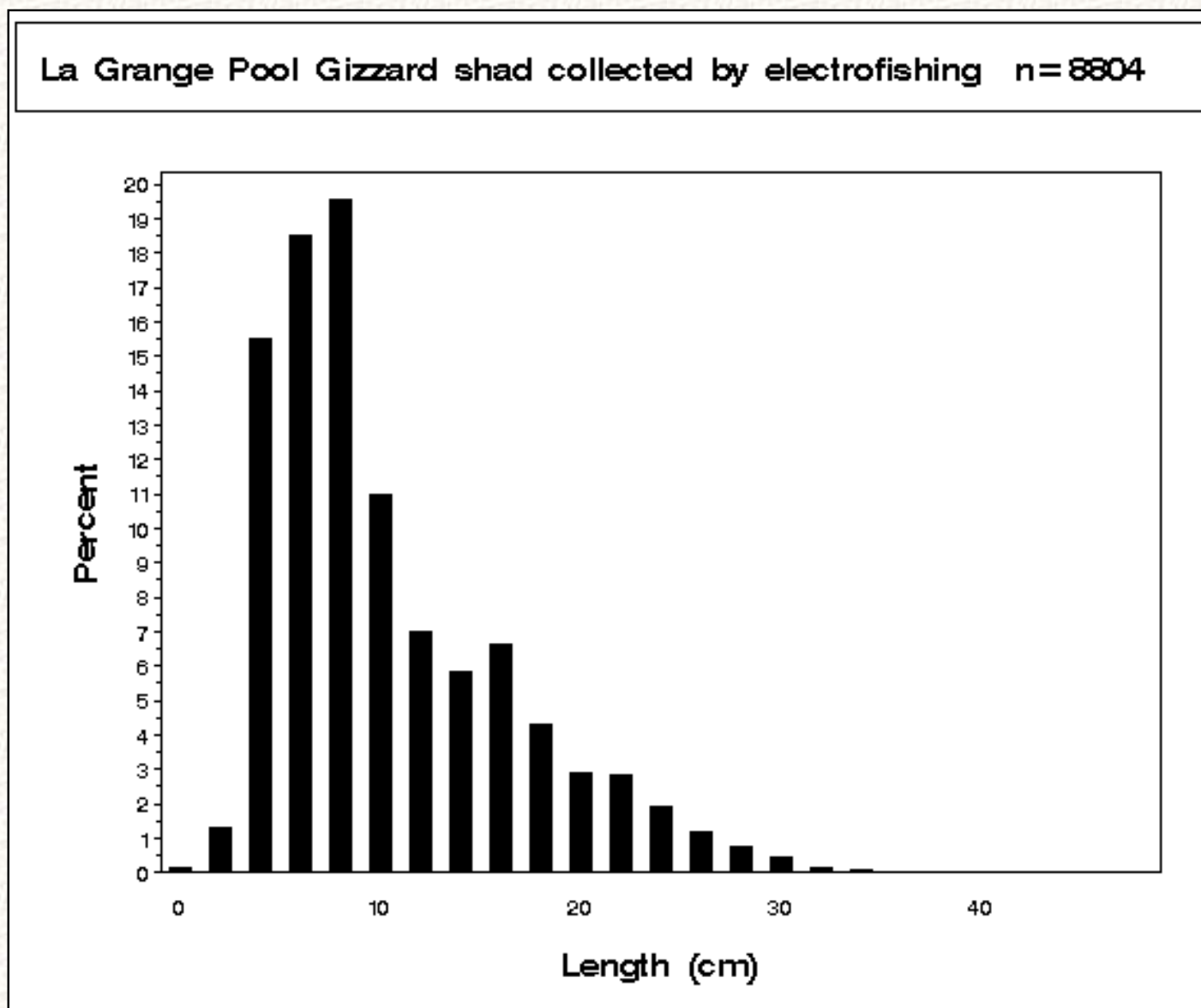
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**Figure 2.6** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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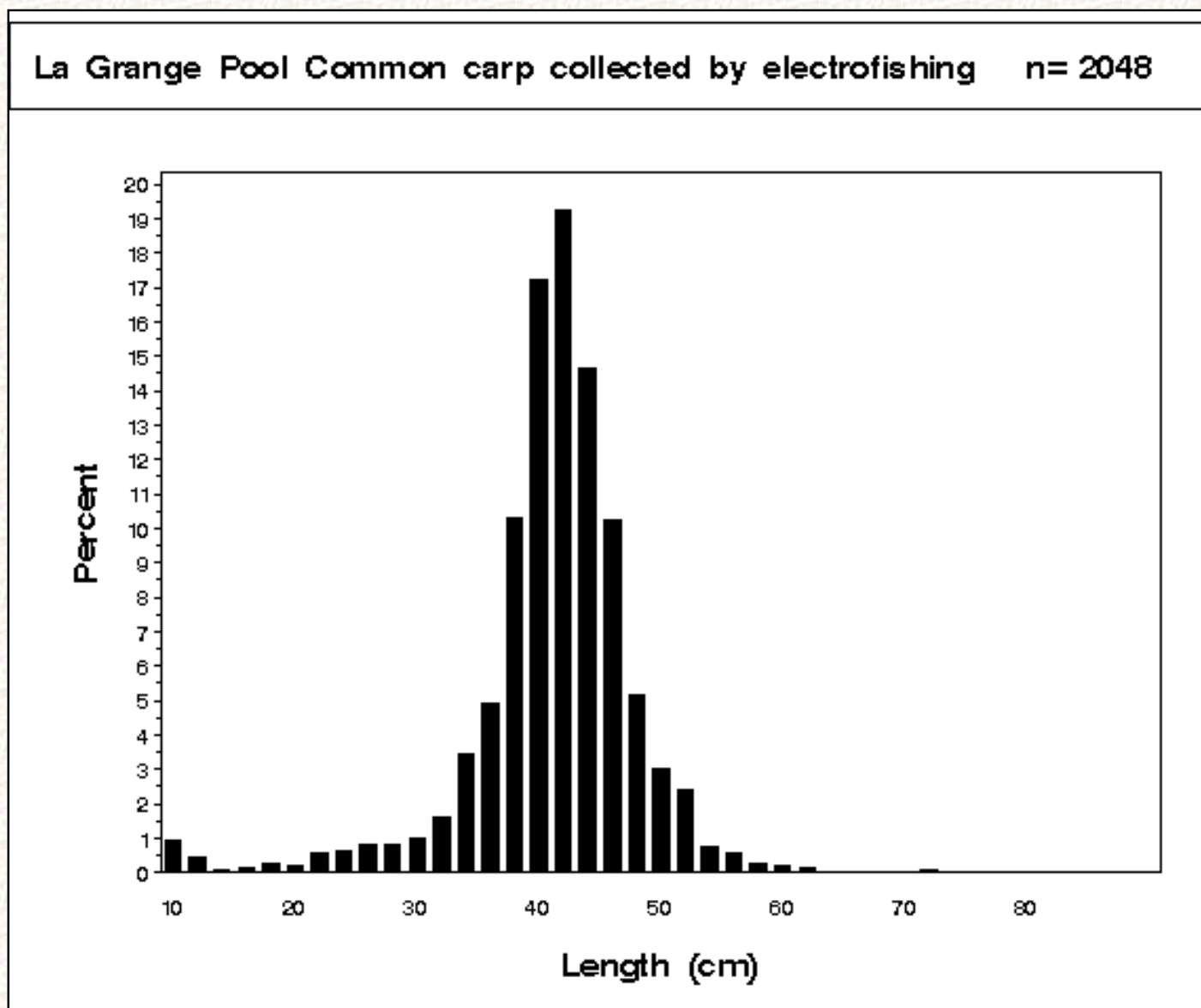
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**Figure 3.6** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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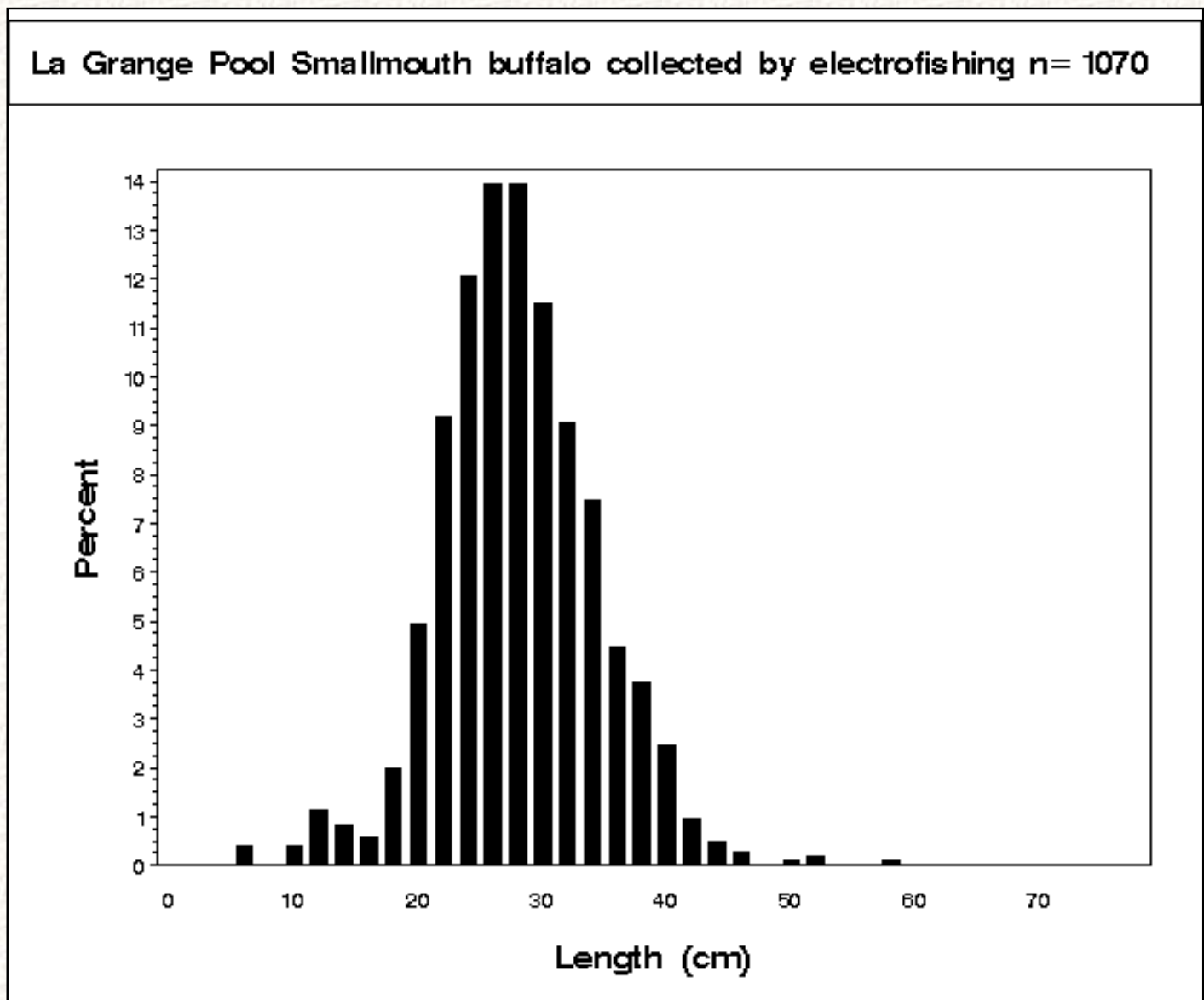
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**Figure 4.6** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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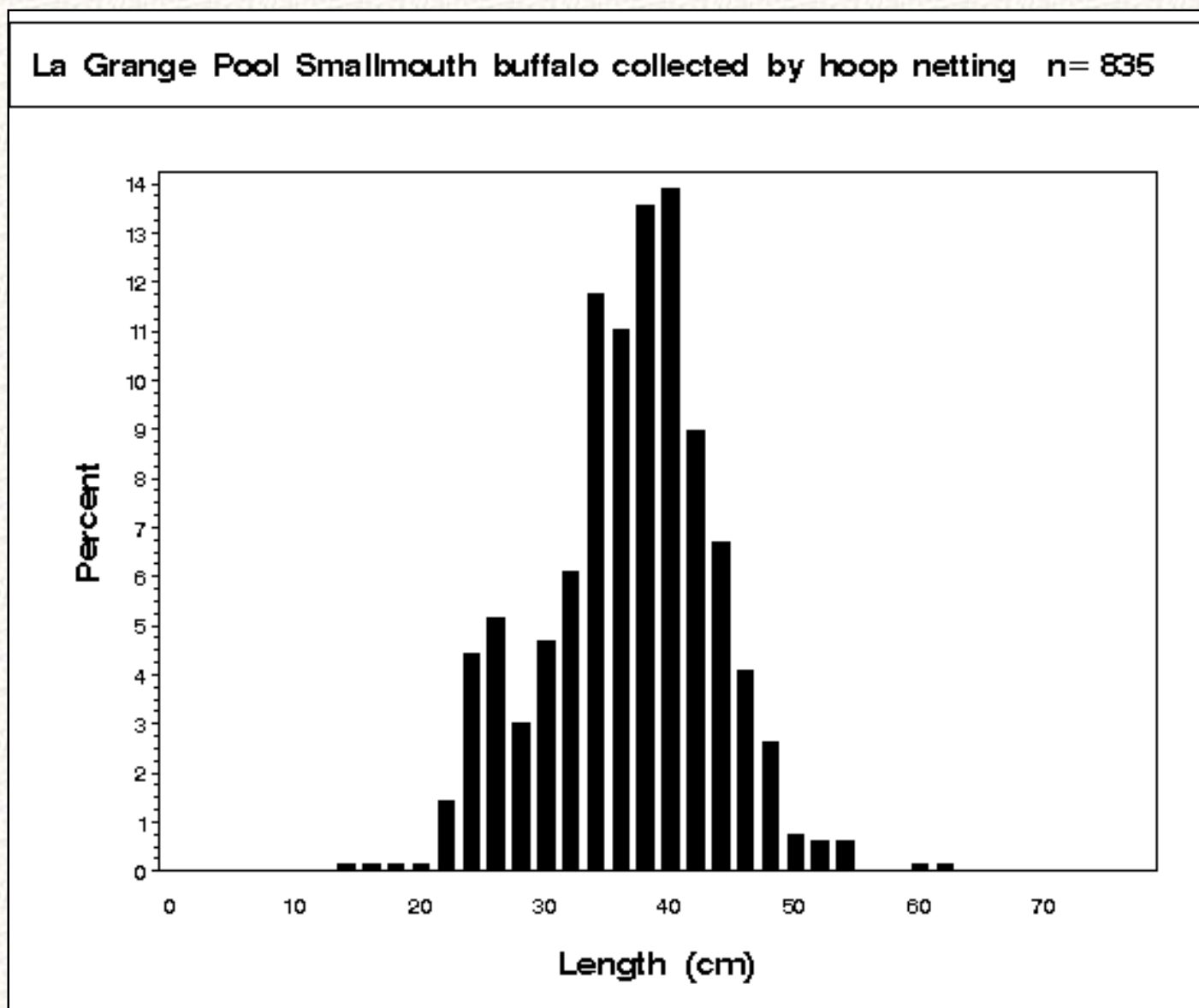
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**Figure 5.6** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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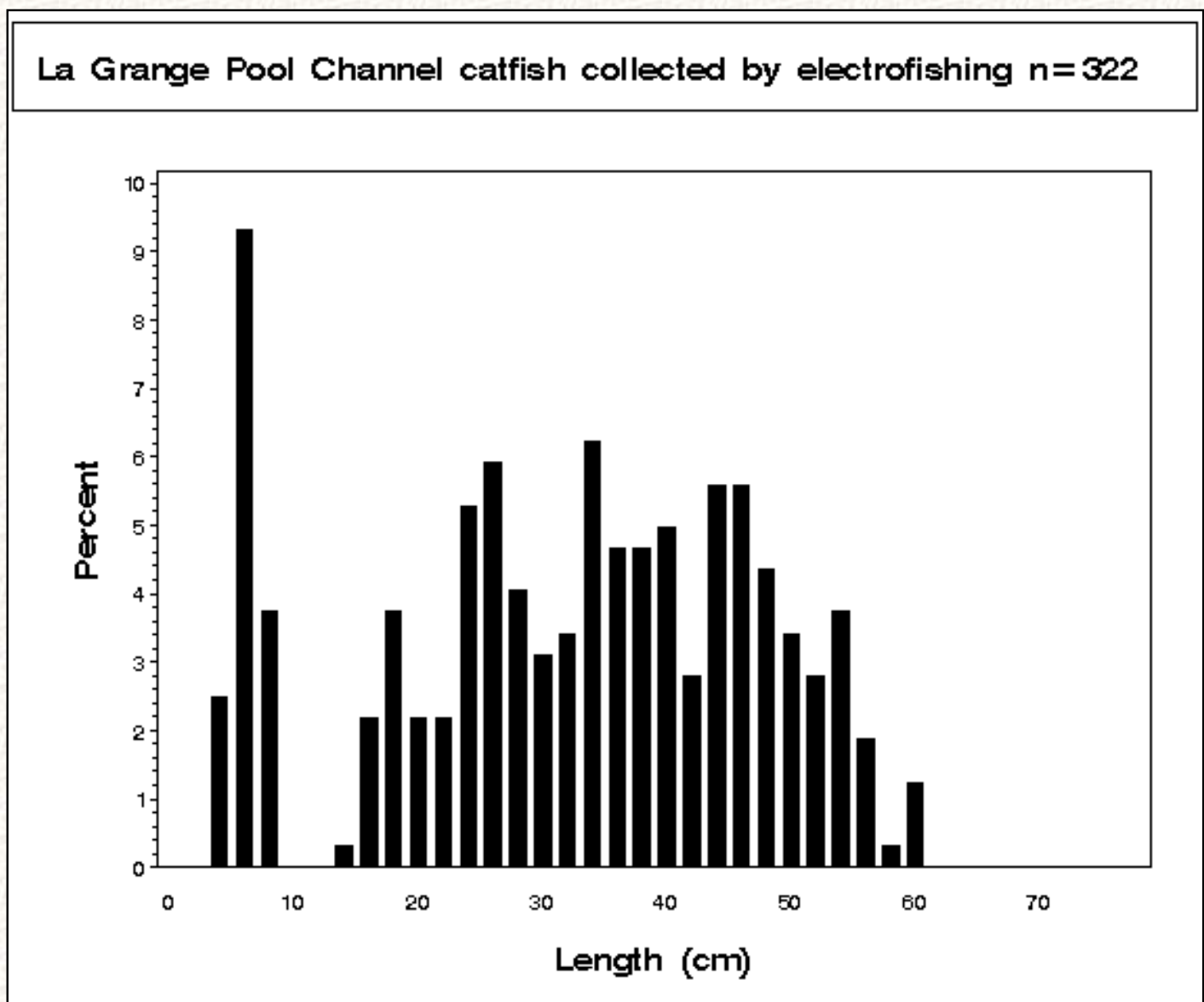
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**Figure 6.6** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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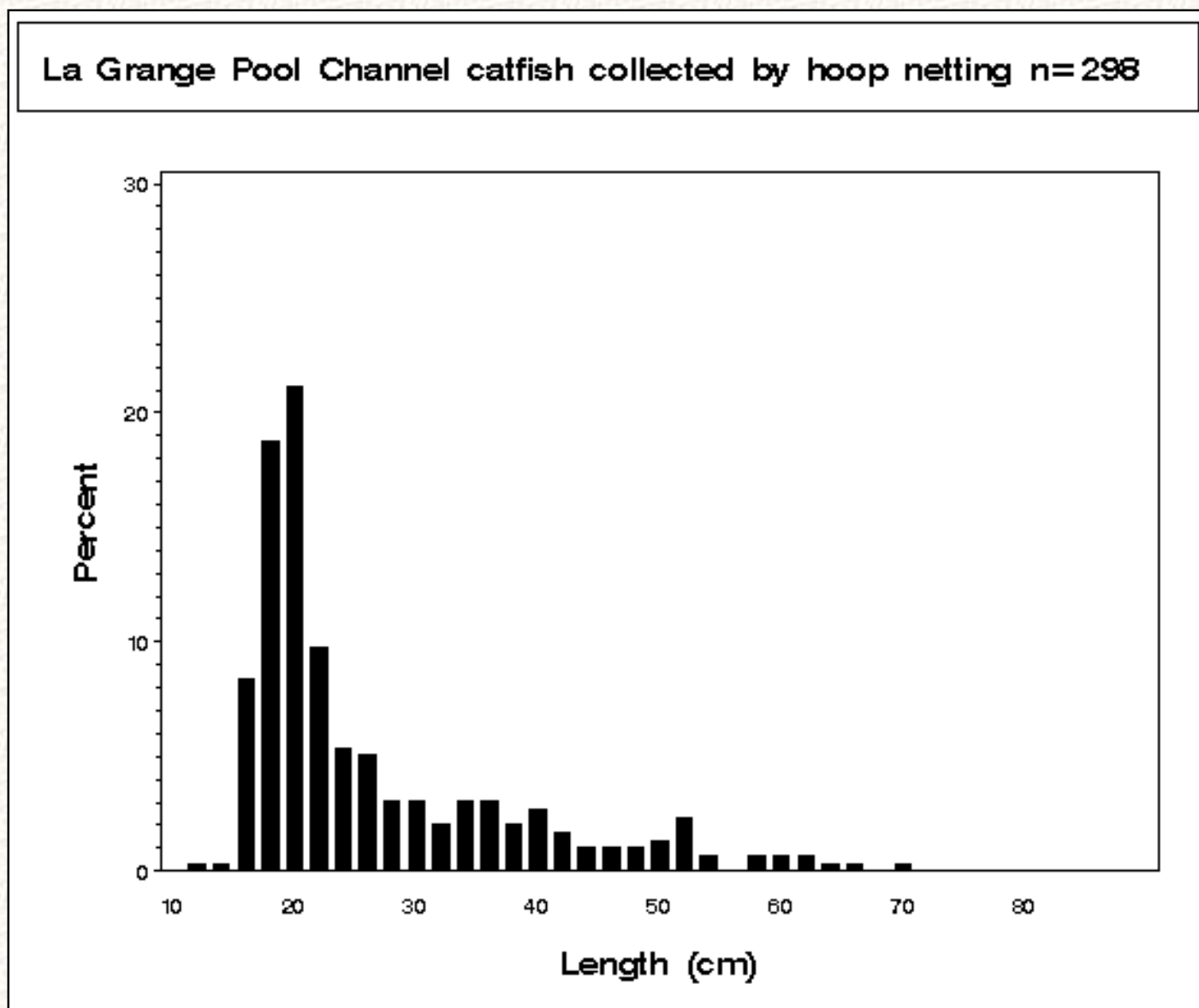
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**Figure 7.6** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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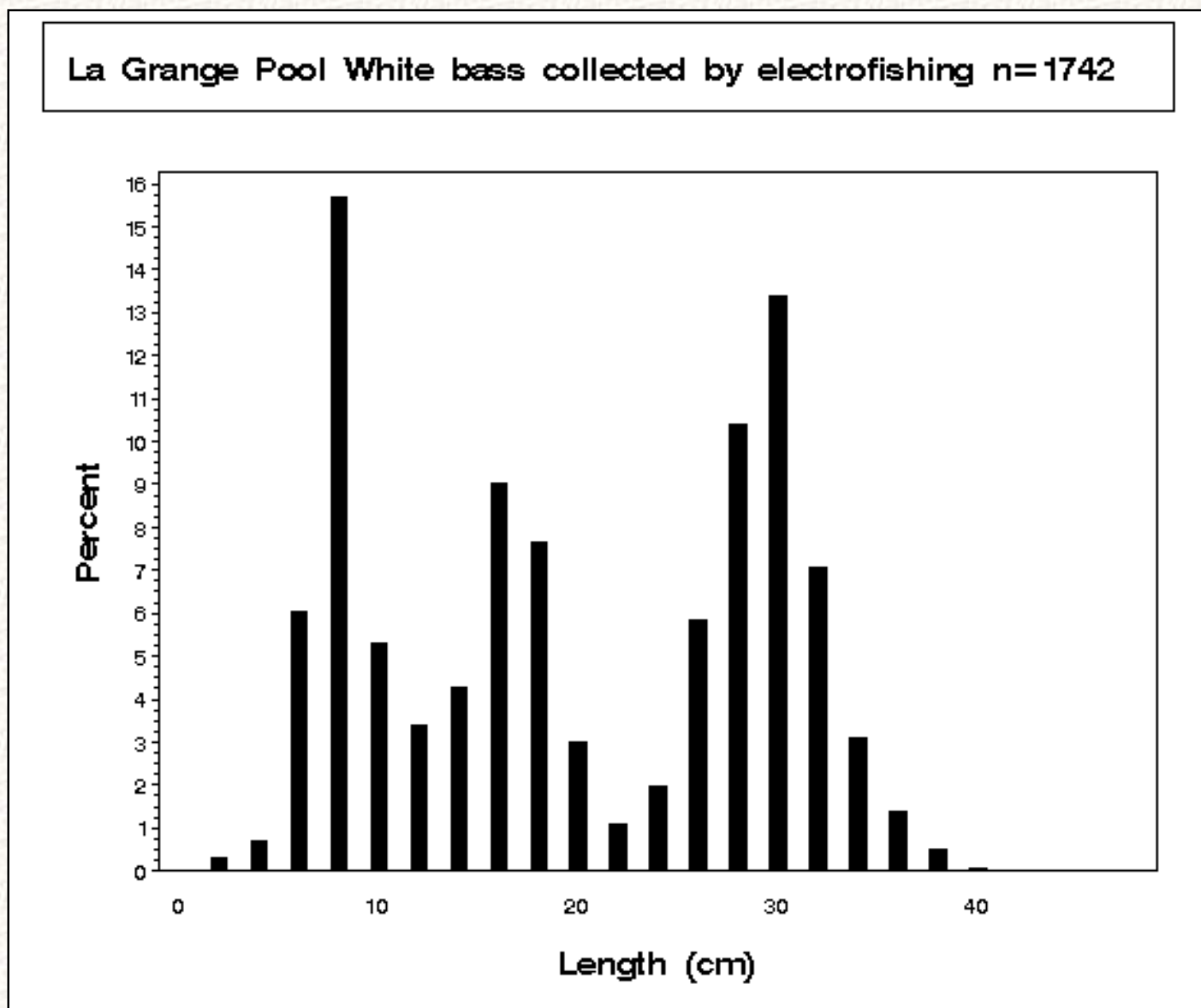
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**Figure 10.6** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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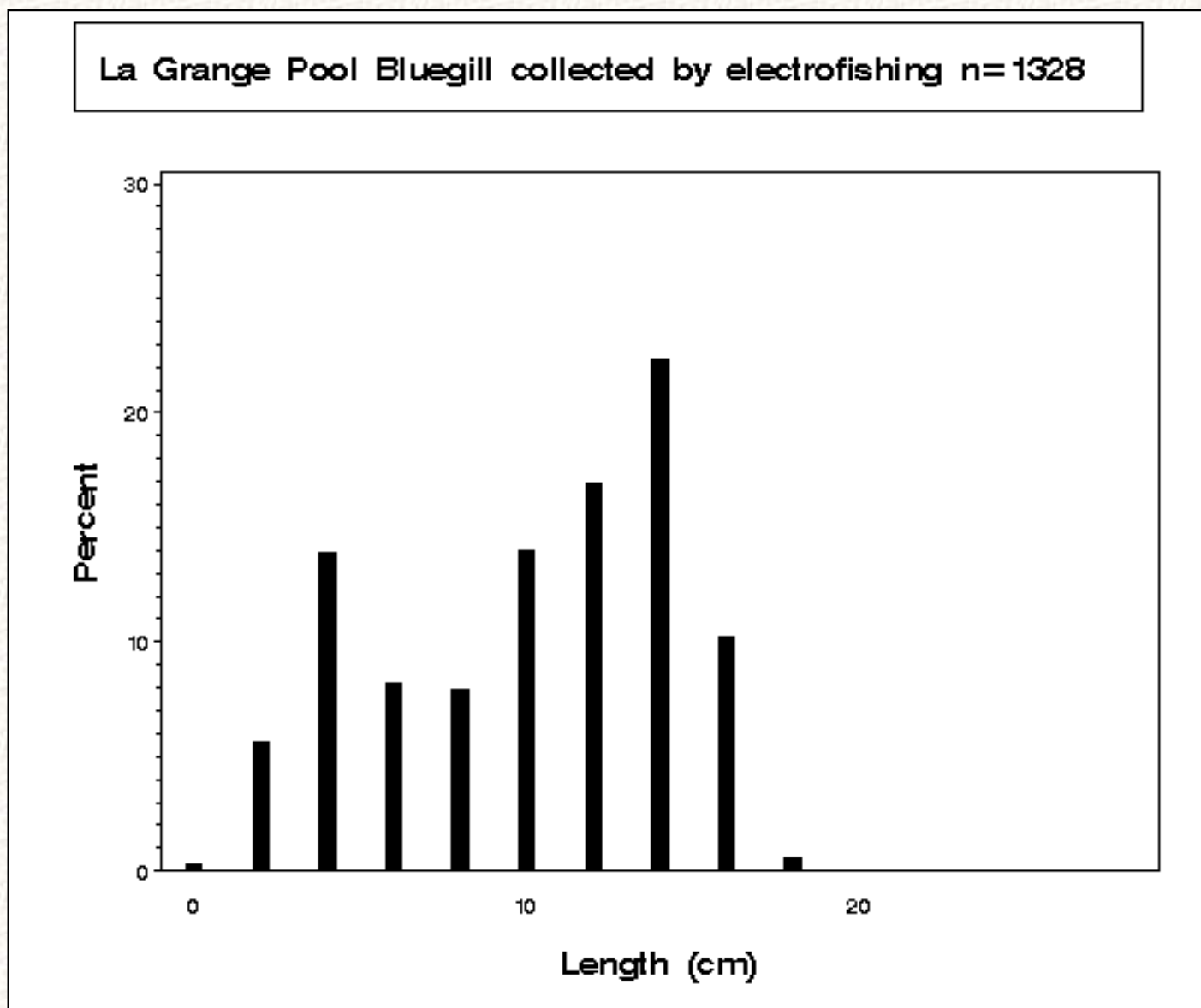
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**Figure 11.6** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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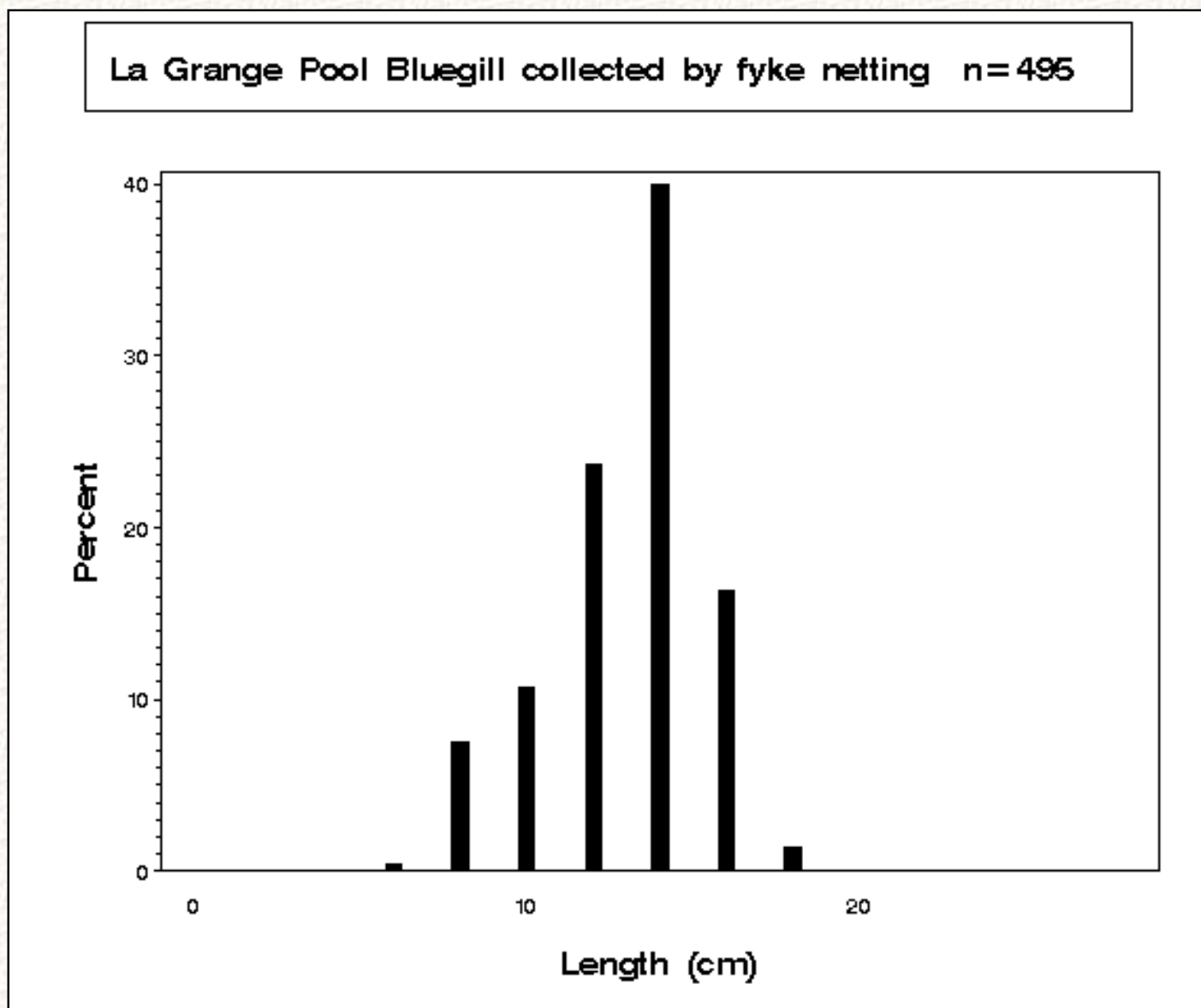
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**Figure 12.6** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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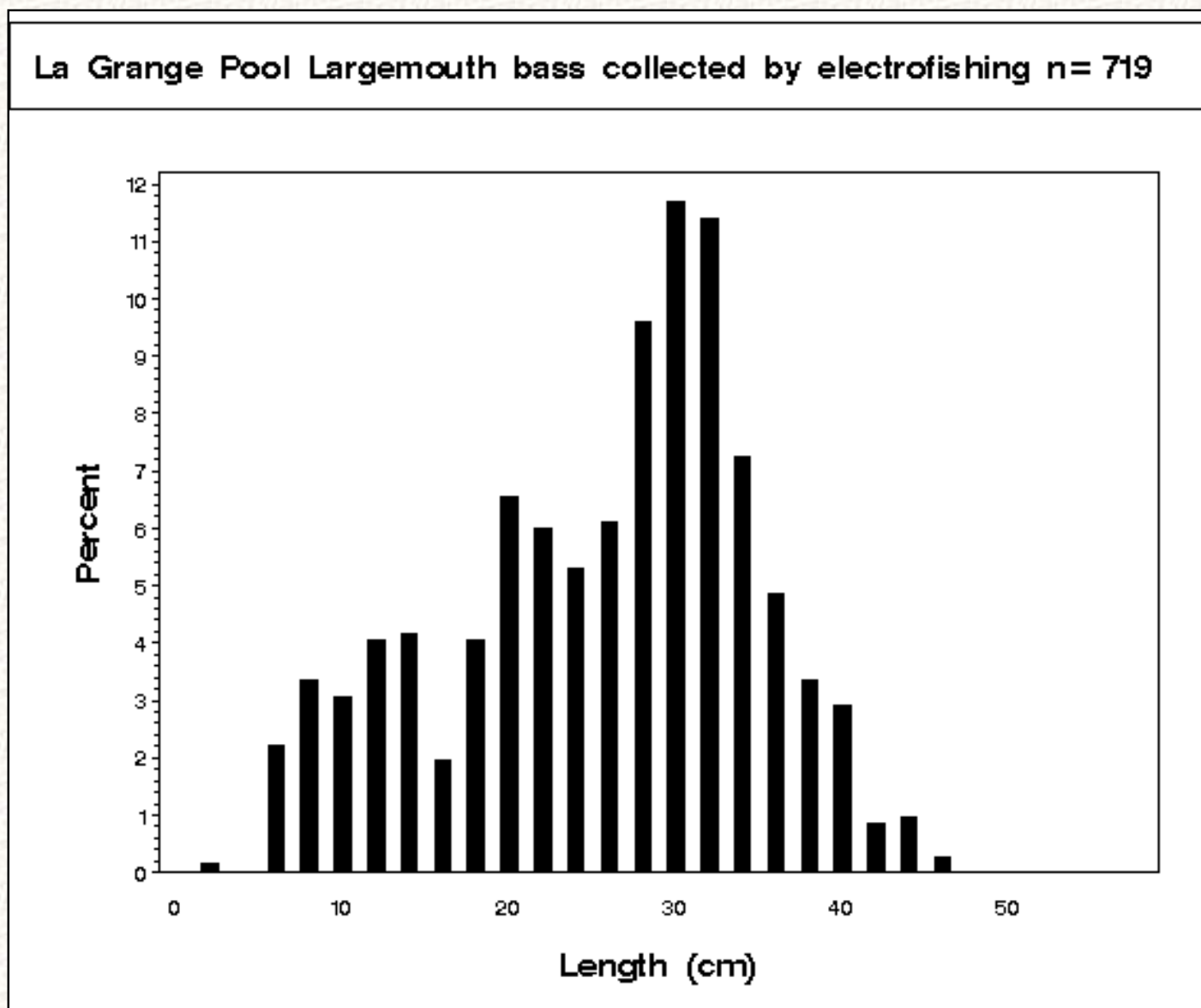
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**Figure 13.6** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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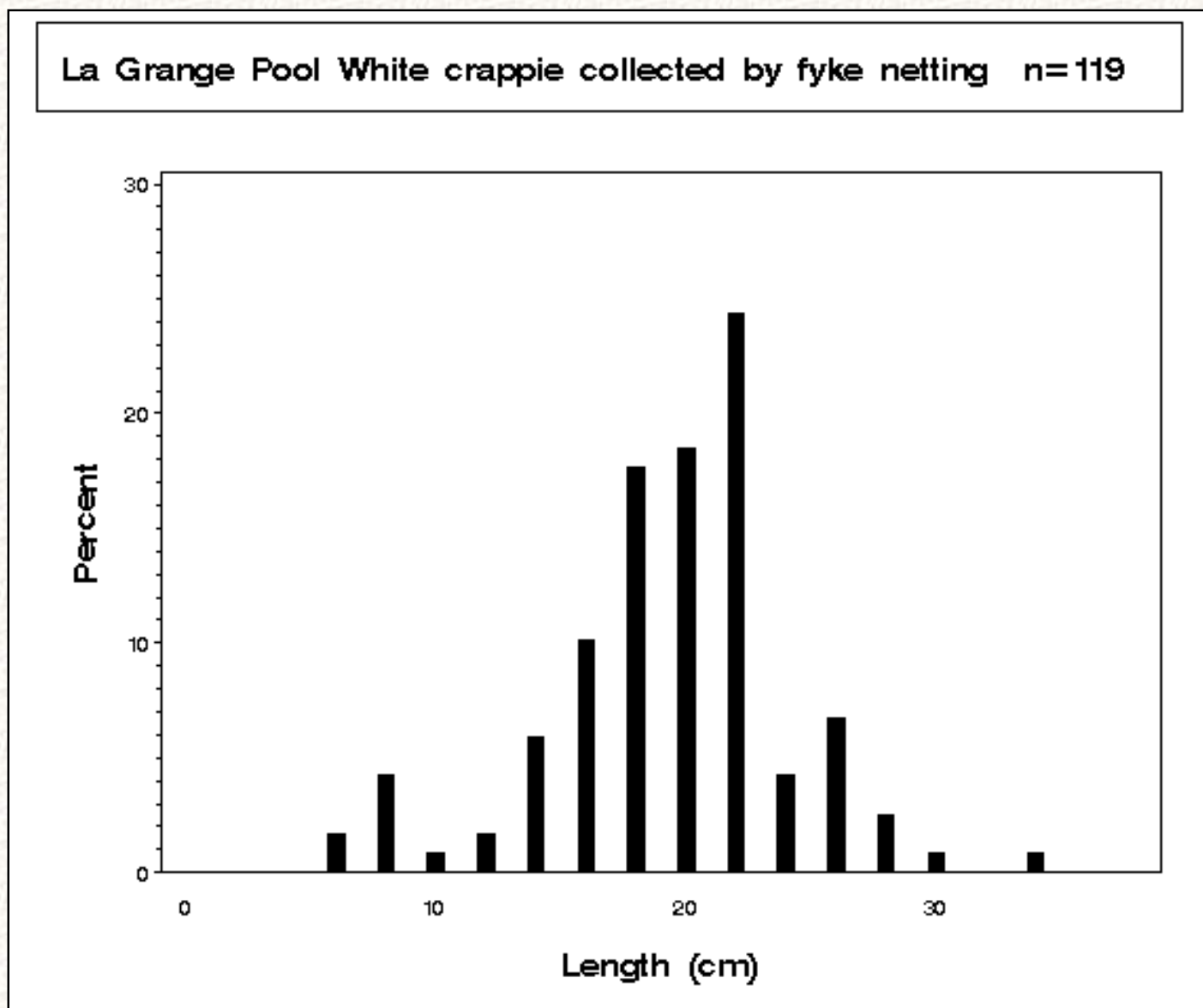
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**Figure 14.6** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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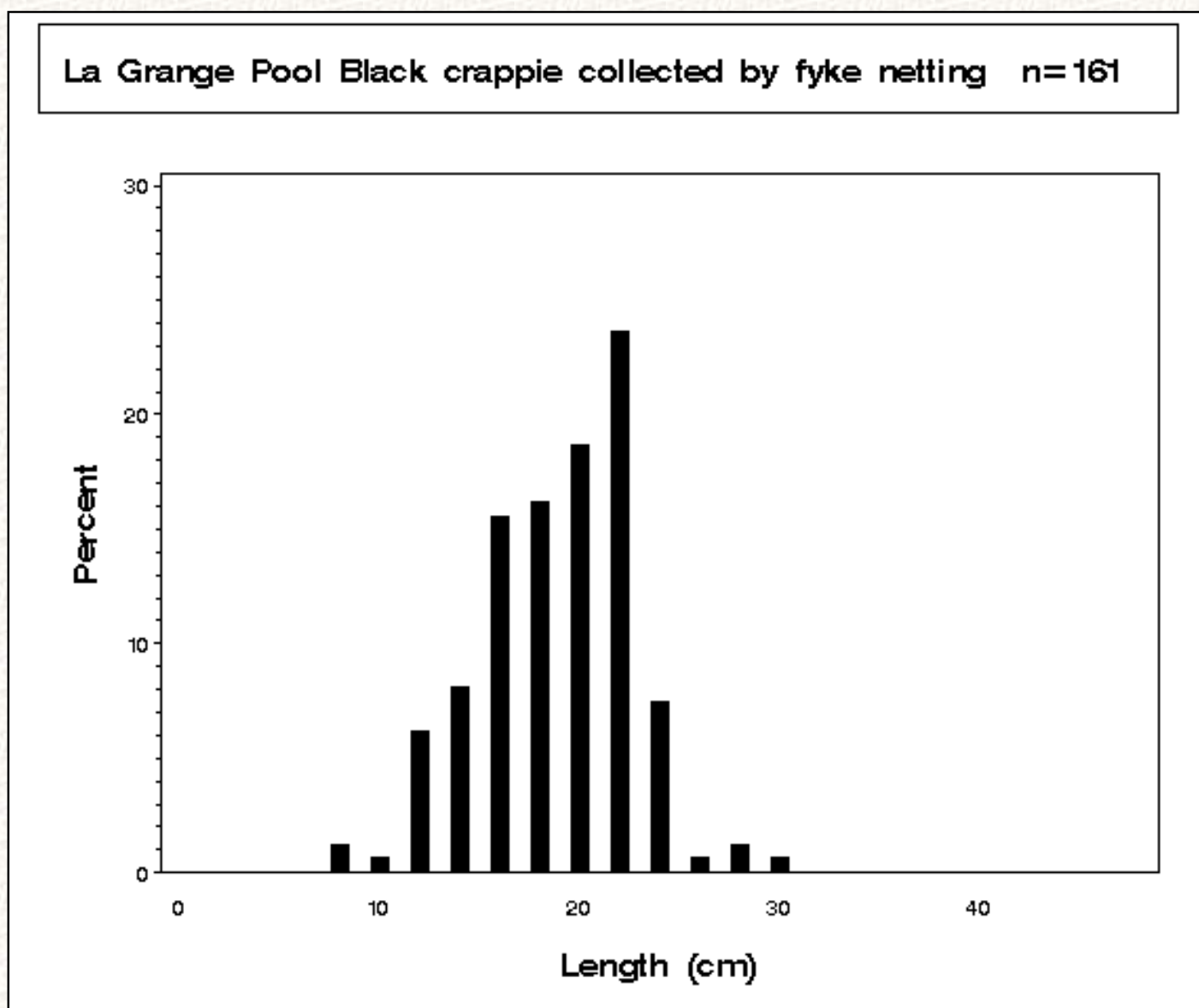
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**Figure 15.6** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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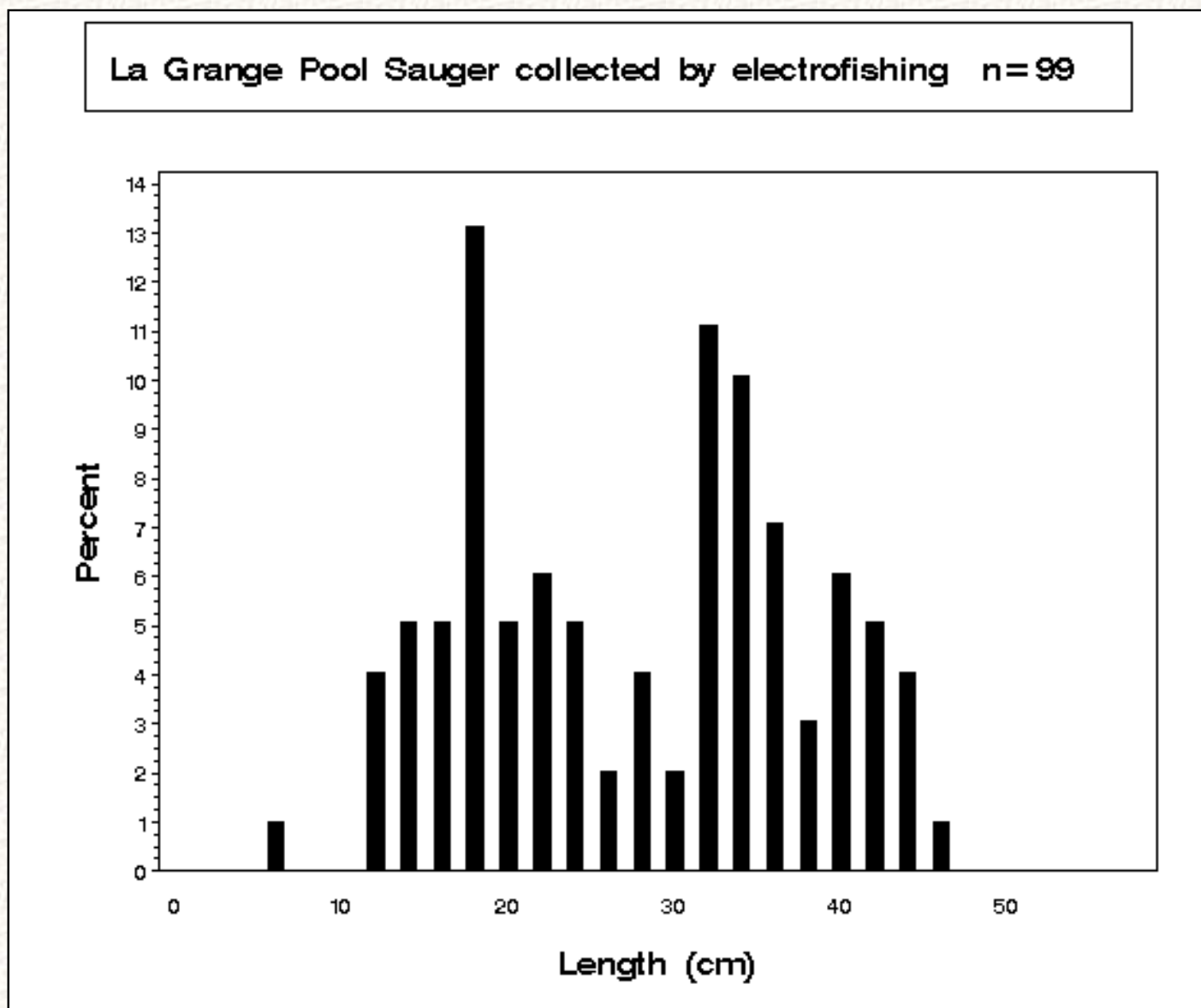
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**Figure 16.6** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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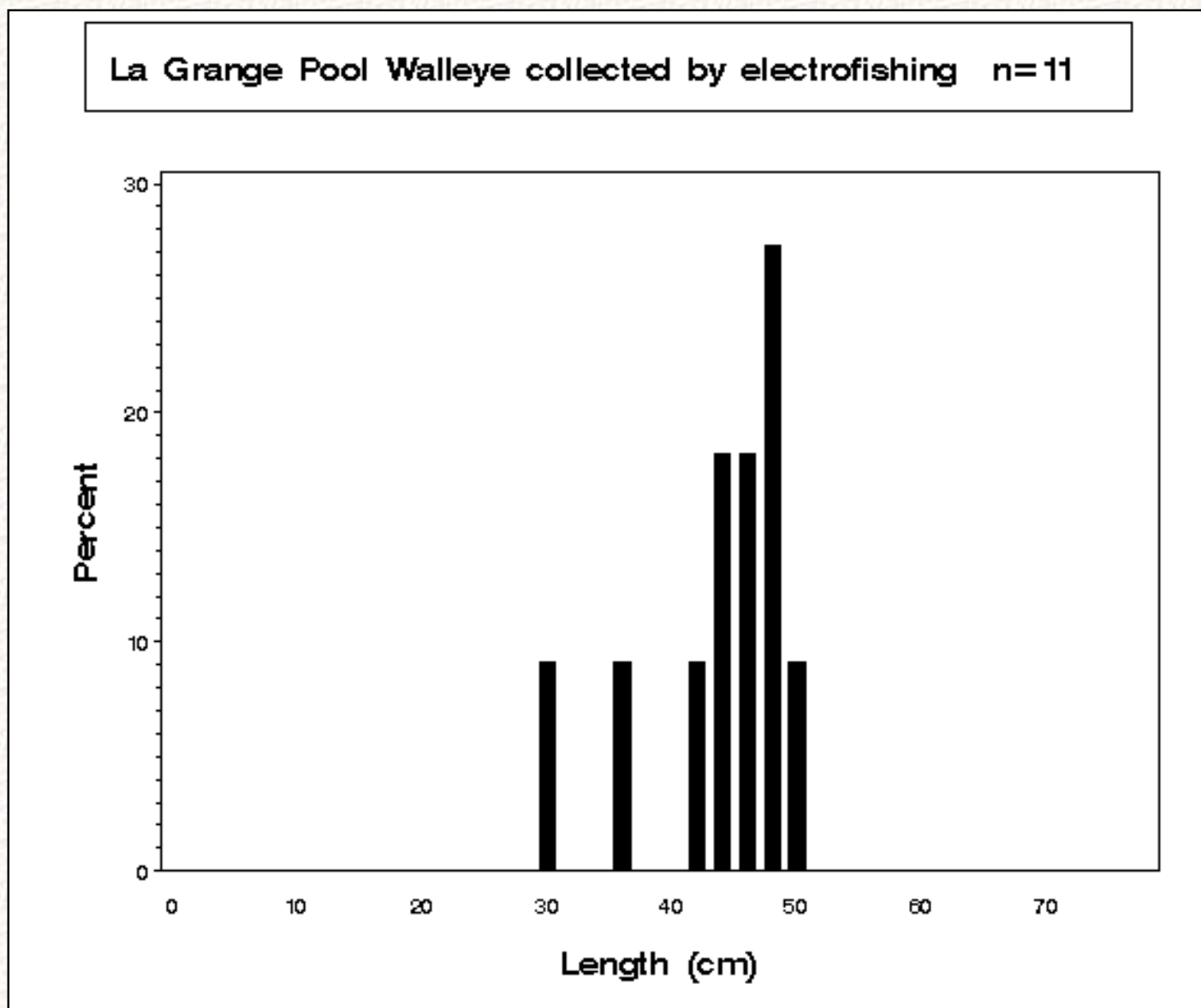
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**Figure 17.6** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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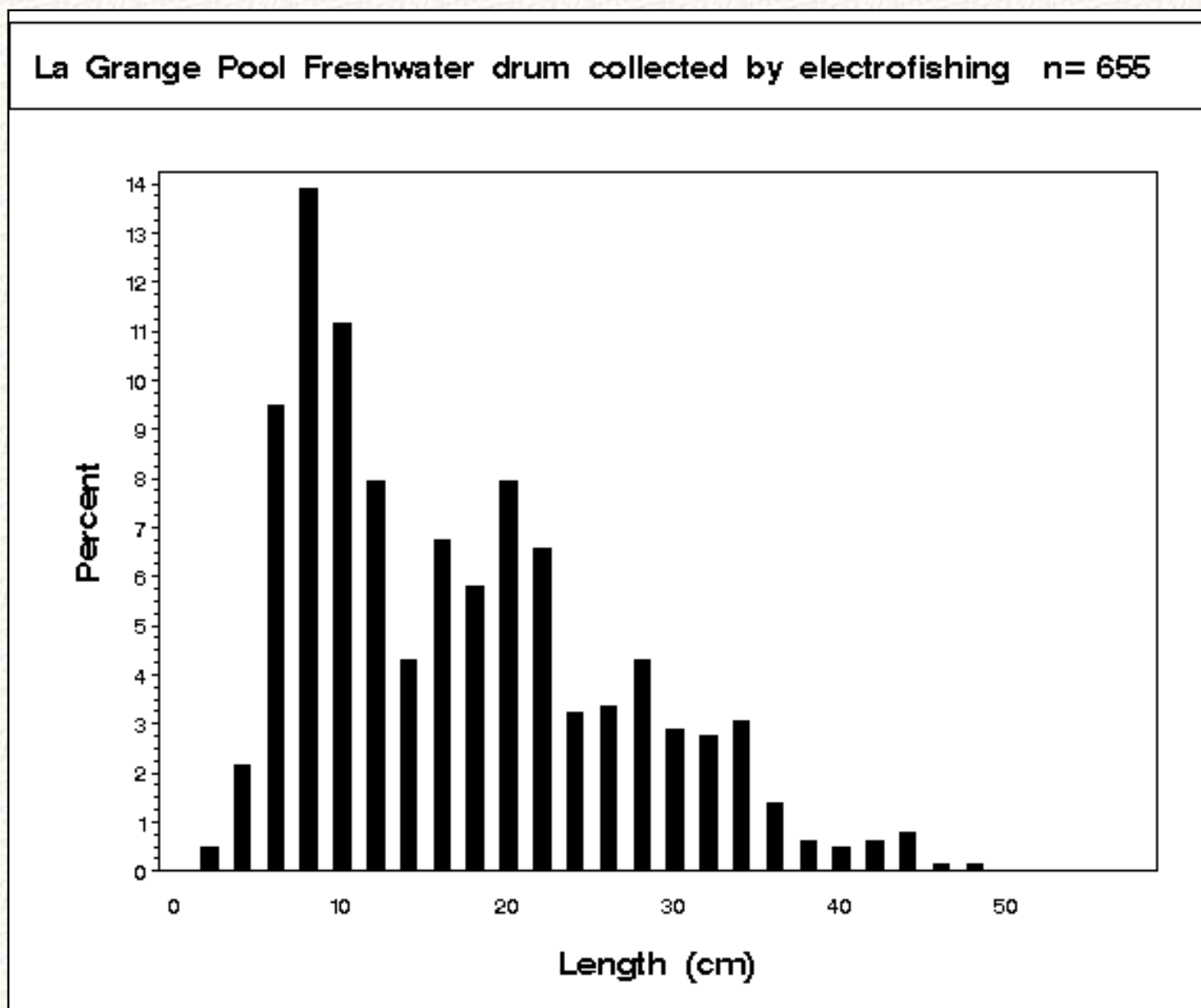
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**Figure 18.6** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in La Grange Pool of the Illinois River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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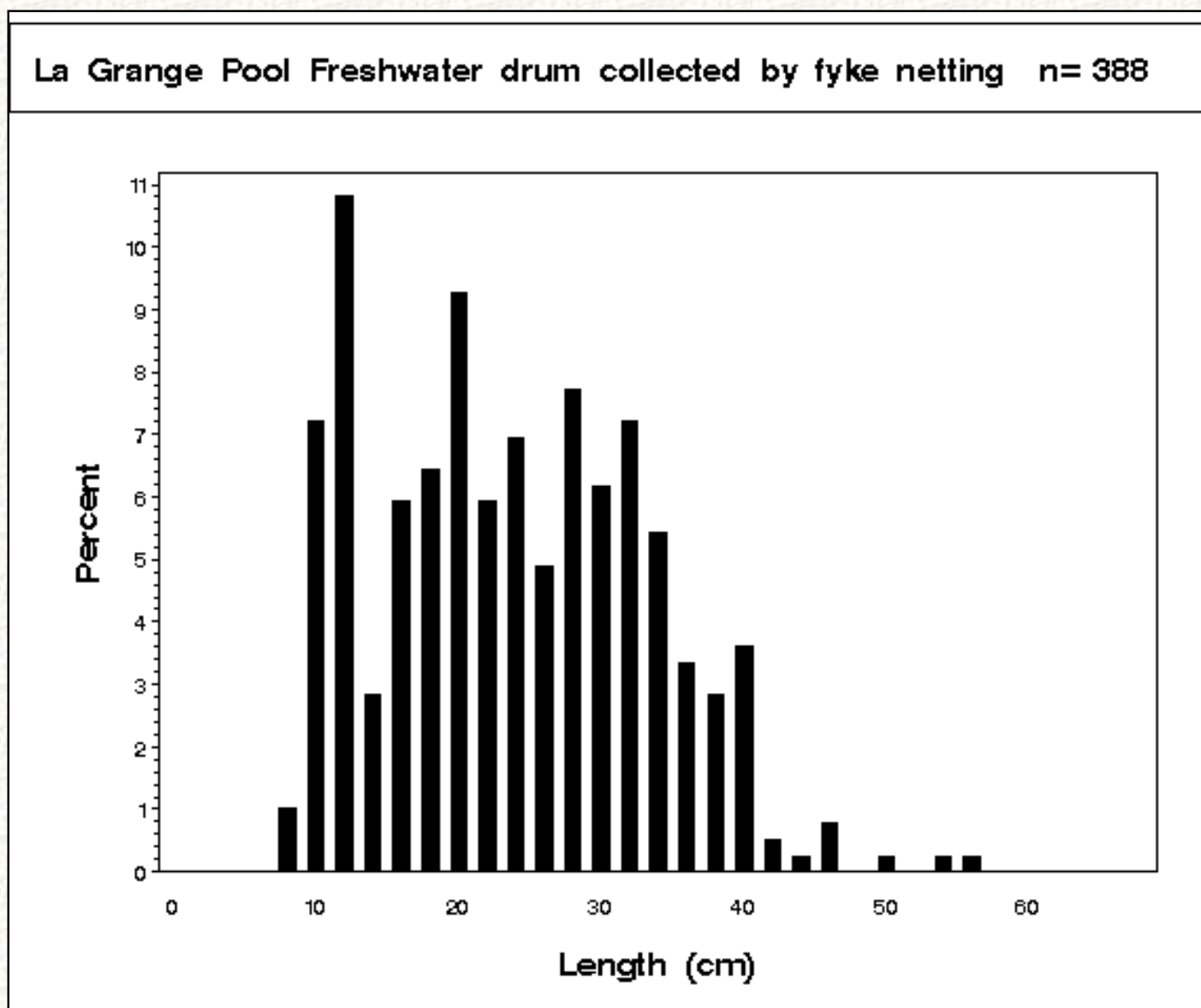
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**Figure 19.6** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by fyke netting in La Grange Pool of the Upper Mississippi River during 2000. [Click here](#) to view this species' length distributions in all study reaches.



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## Acknowledgments

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