



## 2001 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](#)

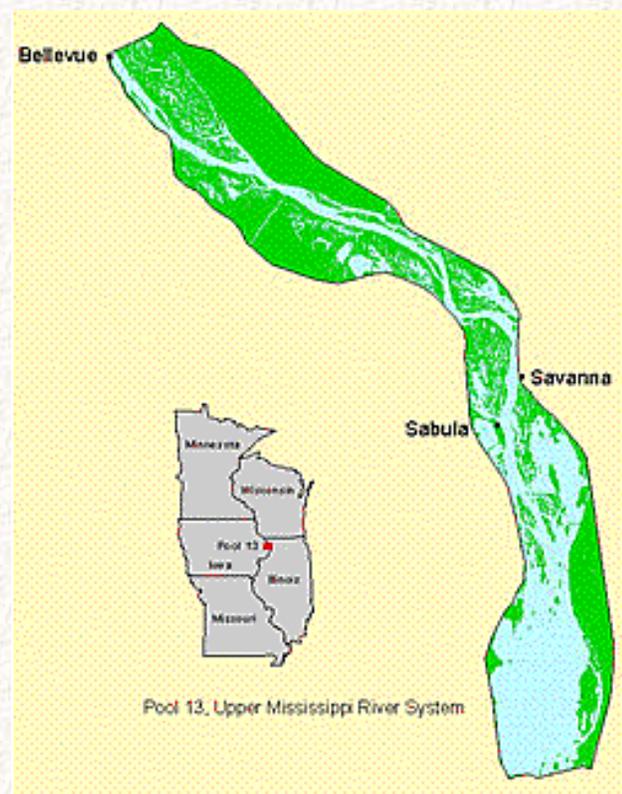
**Navigation** [Pool 4](#) is 73.3 km (44 river miles) long and includes 14,700 ha (36,300 acres) of aquatic habitat. It is located between Lock and Dam 3 (above Red Wing, Minnesota) and Lock and Dam 4 (Alma, Wisconsin). Major tributaries include the Cannon and Vermillion Rivers on the Minnesota side 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

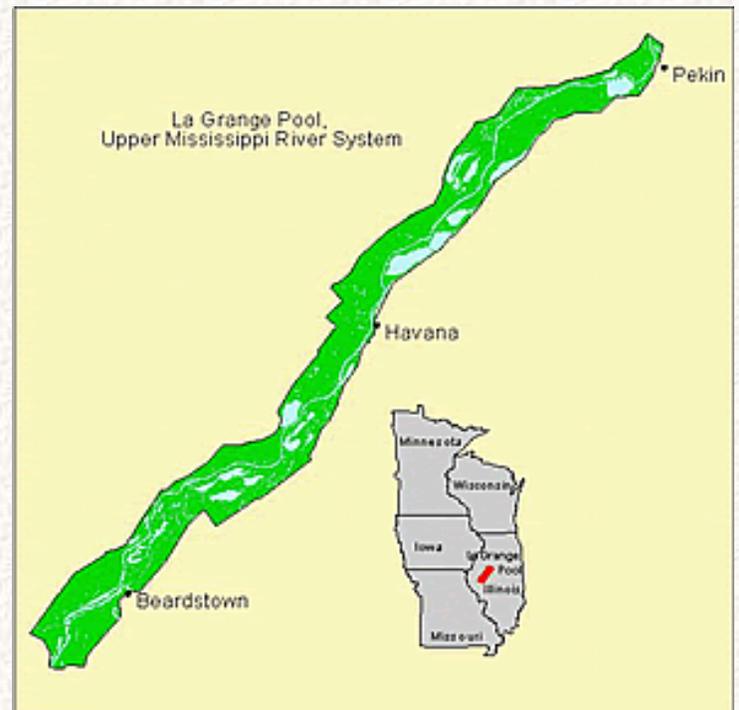
area includes water bodies along the Upper Mississippi River from Lock and Dam 25 (Winfield, Missouri) to Lock and Dam 26 (Alton, Illinois) and the lower Illinois River from its confluence with the Mississippi River north to Illinois River mile 12. This reach of the two rivers is bordered by high bluffs 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. blennioides</i>
Bigeye shiner		<i>N. boops</i>
Ghost shiner		<i>N. buechanani</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 x S. vitreum</i>
	<b>Sciaenidae</b>	
Freshwater drum		<i>Aplodinotus grunniens</i>

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## Pool 4, Upper Mississippi River 2001 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 2001. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 338 fish collections were conducted using 10 gear types ([Table 2.1](#)).
- Gear allocations among strata remained consistent for all three sampling periods except for four fewer day electrofishing runs during period 3.
- Water levels were significantly above the long-term mean from April until mid-June ([Figure 1.1](#)). Sampling started on June 25 when water levels were receding. Water levels remained close to the mean until period 2 started. Water levels then dropped below the long-term average mean for periods 2 and 3. During period 3, four electrofishing runs were not completed because of low water conditions in the backwater areas of upper Pool 4.
- Of the 338 fish collections, 284 sites were from randomly selected sites. Fifty-four were from fixed sites.
- Backwater, main channel border, and side channel received the most sampling effort ([Table 2.1](#)).
- 62,884 fish, representing 66 species and 3 hybrids, were collected ([Table 3.1](#)).
- Historical fish distribution records for the Upper Mississippi River (Pitlo et al. 1995) document 99 fish species from Pool 4. To date, the Lake City Field Station has collected a total 89 species and 5 hybrids.
- During the 2001 fish sampling season, the highest three total catch were 37,231

emerald shiners, 5,928 gizzard shad, and 4,465 bluegill.

- One paddlefish, a Minnesota-listed threatened species, was collected. One black buffalo and one blue sucker, Minnesota-listed special concern species, were collected ([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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*Last updated on September 13, 2004*

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**Table 2.1** Allocation of fish sampling effort among strata in Pool 4 of the Upper Mississippi River during 2001. 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					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>

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

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>

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

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	TOTAL
Day electrofishing	4		8	8	4					24
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>16</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>122</b>
<b>Total</b>	<b>56</b>	<b>48</b>	<b>114</b>	<b>96</b>	<b>12</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>48</b>	<b>374</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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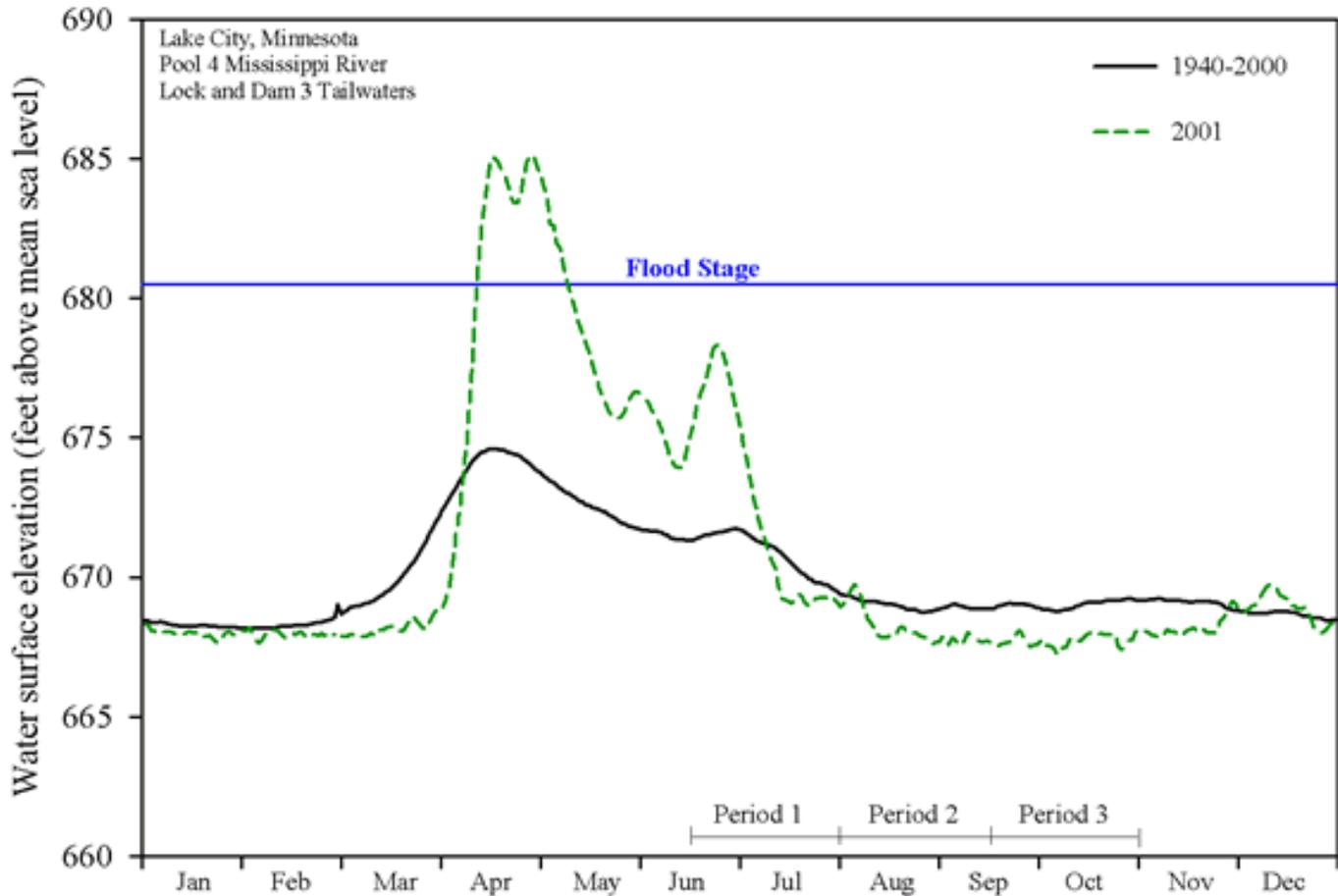


Figure 1.1. Daily water surface elevation from Lock and Dam 3 for Pool 4, Upper Mississippi River, during 2001 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski 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 2001. 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	T	TOTAL
1	Chestnut lamprey	<i>Ichthyomyzon castaneus</i>	2	-	-	-	-	-	-	1	-	-	-	3
2	Silver lamprey	<i>I. unicuspis</i>	4	2	-	-	-	1	-	-	-	-	-	7
3	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	2	-	13	15
4	Paddlefish	<i>Polyodon spathula</i>	-	1	-	-	-	-	-	-	-	-	-	1
5	Longnose gar	<i>Lepisosteus osseus</i>	2	3	2	3	-	1	4	-	-	-	-	15
6	Shortnose gar	<i>L. platostomus</i>	-	5	3	18	2	-	-	-	-	-	-	28
7	Bowfin	<i>Amia calva</i>	11	1	26	25	7	-	-	-	-	-	-	70
8	Goldeye	<i>Hiodon alosoides</i>	-	1	-	-	-	-	-	-	-	-	-	1
9	Mooneye	<i>H. tergisus</i>	2	1	-	-	-	-	-	-	-	-	-	3
10	American eel	<i>Anguilla rostrata</i>	-	-	-	-	-	-	-	1	-	-	-	1
11	Gizzard shad	<i>Dorosoma cepedianum</i>	3394	603	8	504	74	36	1303	-	-	-	6	5928
12	Spotfin shiner	<i>Cyprinella spiloptera</i>	174	6	-	-	337	34	579	-	-	-	-	1130
13	Common carp	<i>Cyprinus carpio</i>	376	96	57	64	7	5	4	60	112	-	-	781
14	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	-	-	-	15	-	-	-	-	-	4	19
15	Silver chub	<i>M. storeriana</i>	2	7	4	-	5	1	1	8	-	-	-	28
16	Golden shiner	<i>Notemigonus crysoleucas</i>	7	-	-	-	1	1	-	-	-	-	-	9
17	Emerald shiner	<i>Notropis atherinoides</i>	2062	5262	-	-	22484	21	7402	-	-	-	-	37231
18	River shiner	<i>N. blennius</i>	34	-	-	-	4	-	353	-	-	-	-	391
19	Spottail shiner	<i>N. hudsonius</i>	3	-	-	-	20	22	26	-	-	-	-	71

20	Sand shiner	<i>N. stramineus</i>	1	-	-	-	-	-	19	-	-	-	-	20
21	Weed shiner	<i>N. texanus</i>	-	-	-	-	13	17	-	-	-	-	-	30
22	Mimic shiner	<i>N. volucellus</i>	272	90	-	-	524	6	91	-	-	-	-	983
23	Pugnose minnow	<i>Opsopoeodus emiliae</i>	29	-	-	-	151	642	2	-	-	-	-	824
24	Bluntnose minnow	<i>Pimephales notatus</i>	5	-	-	-	10	1	7	-	-	-	-	23
25	Fathead minnow	<i>P. promelas</i>	1	-	-	-	-	-	-	-	-	-	-	1
26	Bullhead minnow	<i>P. vigilax</i>	76	3	-	-	105	460	480	-	-	-	-	1124
27	Unidentified minnow	Unidentified Cyprinidae	-	-	-	-	19	-	-	-	-	-	-	19
28	River carpsucker	<i>Carpionodes carpio</i>	7	1	5	4	-	-	-	-	-	-	-	17
29	Quillback	<i>C. cyprinus</i>	54	3	6	2	-	-	10	-	-	-	-	75
30	Unidentified carpsucker	<i>Carpionodes</i> sp.	-	-	-	-	-	-	30	-	-	-	-	30
31	White sucker	<i>Catostomus commersoni</i>	2	1	-	3	1	-	-	-	1	-	-	8
32	Blue sucker	<i>Cycleptus elongatus</i>	-	1	-	-	-	-	-	-	-	-	-	1
33	Northern hog sucker	<i>Hypentelium nigricans</i>	-	-	-	-	-	-	2	-	-	-	-	2
34	Smallmouth buffalo	<i>Ictiobus bubalus</i>	23	7	12	19	2	32	2	12	195	-	-	304
35	Bigmouth buffalo	<i>I. cyprinellus</i>	6	2	-	-	3	2	-	-	-	-	-	13
36	Black buffalo	<i>I. niger</i>	1	-	-	-	-	-	-	-	-	-	-	1
37	Unidentified buffalo	<i>Ictiobus</i> sp.	-	1	-	-	-	1	-	-	-	-	-	2
38	Spotted sucker	<i>Minytrema melanops</i>	22	1	18	8	1	-	-	-	-	-	-	50
39	Silver redhorse	<i>Moxostoma anisurum</i>	143	4	100	119	7	12	-	3	17	-	-	405
40	River redhorse	<i>M. carinatum</i>	63	-	-	-	-	-	-	-	-	-	-	63
41	Golden redhorse	<i>M. erythrurum</i>	37	8	10	7	1	-	-	-	-	-	-	63
42	Shorthead redhorse	<i>M. macrolepidotum</i>	295	35	57	51	5	-	1	6	22	-	1	473
43	Unidentified redhorse	<i>Moxostoma</i> sp.	12	-	-	-	-	-	7	-	-	-	-	19

44	Unidentified sucker	Unidentified Catostomidae	1	-	-	-	-	-	-	-	-	-	-	-	1
45	Black bullhead	<i>Ameiurus melas</i>	1	-	-	1	-	-	-	-	-	-	-	-	2
46	Yellow bullhead	<i>A. natalis</i>	1	-	1	-	1	-	-	-	-	-	-	-	3
47	Channel catfish	<i>Ictalurus punctatus</i>	9	4	6	2	2	-	1	50	75	-	47	196	
48	Unidentified catfish	<i>Ictalurus</i> sp.	-	-	-	-	-	2	-	-	-	-	-	2	
49	Tadpole madtom	<i>Noturus gyrinus</i>	1	-	-	-	1	2	3	-	-	-	-	7	
50	Flathead catfish	<i>Pylodictis olivaris</i>	8	21	2	5	1	8	-	2	12	-	27	86	
51	Northern pike	<i>Esox lucius</i>	31	8	7	13	17	1	21	-	4	-	-	102	
52	Trout perch	<i>Percopsis omiscomaycus</i>	-	-	-	-	6	20	1	-	-	-	-	27	
53	Brook silverside	<i>Labidesthes sicculus</i>	3	3	-	-	2	-	53	-	-	-	-	61	
54	White bass	<i>Morone chrysops</i>	166	169	209	66	30	31	8	5	38	-	-	722	
55	Rock bass	<i>Ambloplites rupestris</i>	85	1	30	58	41	46	38	2	-	-	-	301	
56	Green sunfish	<i>Lepomis cyanellus</i>	8	7	1	-	2	-	2	-	-	-	-	20	
57	Pumpkinseed	<i>L. gibbosus</i>	4	-	35	13	2	2	-	-	-	-	-	56	
58	Orangespotted sunfish	<i>L. humilis</i>	-	1	-	-	-	-	-	-	-	-	-	1	
59	Bluegill	<i>L. macrochirus</i>	500	247	695	517	861	1213	401	22	9	-	-	4465	
60	Green x pumpkinseed sunfish	<i>L. cyanellus x gibbosus</i>	1	-	-	-	1	-	-	-	-	-	-	2	
61	Green x bluegill sunfish	<i>L. cyanellus x macrochirus</i>	1	-	3	2	-	-	-	1	-	-	-	7	
62	Pumpkinseed x bluegill	<i>L. gibbosus x macrochirus</i>	1	-	1	-	3	1	-	-	-	-	-	6	
63	Smallmouth bass	<i>Micropterus dolomieu</i>	205	102	1	-	5	1	23	4	1	-	-	342	
64	Largemouth bass	<i>M. salmoides</i>	448	96	8	2	54	35	103	-	-	-	-	746	
65	White crappie	<i>Pomoxis annularis</i>	10	19	52	40	6	33	-	-	1	-	-	161	
66	Black crappie	<i>P. nigromaculatus</i>	76	48	248	446	90	332	25	3	11	-	1	1280	

67	Unidentified sunfish	Unidentified Centrarchidae	-	-	-	-	10	1576	19	-	-	-	-	1605
68	Mud darter	<i>Etheostoma asprigene</i>	-	-	-	-	5	4	5	-	-	-	-	14
69	Johnny darter	<i>E.nigrum</i>	3	-	-	-	22	20	38	-	-	-	-	83
70	Yellow perch	<i>Perca flavescens</i>	190	3	63	186	11	9	39	-	-	-	-	501
71	Logperch	<i>Percina caprodes</i>	69	20	-	-	32	11	6	-	-	-	-	138
72	Slenderhead darter	<i>P. phoxocephala</i>	5	-	-	-	-	-	1	-	-	-	-	6
73	River darter	<i>Percina shumardi</i>	8	1	-	-	18	8	2	-	-	-	3	40
74	Sauger	<i>Stizostedion canadense</i>	28	304	117	4	1	1	-	1	19	-	4	479
75	Walleye	<i>S. vitreum</i>	98	226	9	8	2	1	4	-	4	-	5	357
76	Freshwater drum	<i>Aplodinotus grunniens</i>	76	74	120	128	25	18	18	6	36	-	99	600
77	Larval fish	Unidentified	-	-	-	-	49	13	52	-	-	-	-	114
78	Unidentified	Unidentified	-	-	-	-	67	-	2	-	-	-	-	69
			<b>9159</b>	<b>7499</b>	<b>1916</b>	<b>2318</b>	<b>25165</b>	<b>4683</b>	<b>11188</b>	<b>187</b>	<b>559</b>	<b>0</b>	<b>210</b>	<b>62884</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 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.

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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 2001. 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>	0.03	0.05			0.04
	(0.03)	(0.05)			(0.04)
<b>Silver lamprey</b>	0.05	0.05			0.08
	(0.03)	(0.05)			(0.06)
<b>Longnose gar</b>	0.03	0.05			0.04
	(0.03)	(0.05)			(0.04)
<b>Bowfin</b>	0.18	0.30	0.04		0.13
	(0.07)	(0.16)	(0.04)		(0.07)
<b>Mooneye</b>	0.03				0.08
	(0.02)				(0.06)
<b>Gizzard shad</b>	45.02	43.65	73.63	4.86	24.92
	(11.76)	(17.41)	(33.96)	(4.63)	(10.88)
<b>Spotfin shiner</b>	2.14	0.15	2.00		4.92

	(0.49)	(0.11)	(0.54)		(1.49)
<b>Common carp</b>	5.59	6.30	3.58	0.17	6.25
	(0.96)	(1.85)	(0.80)	(0.17)	(1.62)
<b>Silver chub</b>	0.02		0.04		0.04
	(0.02)		(0.04)		(0.04)
<b>Golden shiner</b>	0.15	0.35			
	(0.11)	(0.26)			
<b>Emerald shiner</b>	21.32	5.05	25.79	25.50	39.54
	(7.66)	(2.66)	(7.49)	(25.50)	(23.04)
<b>River shiner</b>	0.38		1.00		0.42
	(0.14)		(0.39)		(0.31)
<b>Spottail shiner</b>	0.05	0.10	0.04		
	(0.03)	(0.07)	(0.04)		
<b>Sand shiner</b>	0.01				0.04
	(0.01)				(0.04)
<b>Mimic shiner</b>	3.03	0.15	3.17		6.79
	(1.22)	(0.11)	(1.64)		(3.62)
<b>Pugnose minnow</b>	0.60	1.35	0.04		0.04
	(0.33)	(0.78)	(0.04)		(0.04)
<b>Fathead minnow</b>	0.01		0.04		
	(0.01)		(0.04)		
<b>Bullhead minnow</b>	1.16	1.85	0.88		0.46
	(0.33)	(0.69)	(0.54)		(0.26)

<b>River carpsucker</b>	0.11	0.15	0.08		0.08
	(0.05)	(0.11)	(0.06)		(0.06)
<b>Quillback</b>	0.72	0.65	0.71	0.33	0.83
	(0.20)	(0.20)	(0.35)	(0.21)	(0.50)
<b>White sucker</b>	0.02	0.05		0.17	
	(0.02)	(0.05)		(0.17)	
<b>Smallmouth buffalo</b>	0.43	0.85	0.04	0.25	0.17
	(0.14)	(0.31)	(0.04)	(0.25)	(0.10)
<b>Bigmouth buffalo</b>	0.07	0.15		0.50	
	(0.05)	(0.11)		(0.50)	
<b>Spotted sucker</b>	0.42	0.80			0.25
	(0.15)	(0.34)			(0.12)
<b>Silver redhorse</b>	1.77	1.10	1.04	3.47	3.21
	(0.35)	(0.29)	(0.39)	(2.12)	(0.97)
<b>River redhorse</b>	0.28	0.05	0.08	7.40	0.67
	(0.10)	(0.05)	(0.06)	(2.89)	(0.32)
<b>Golden redhorse</b>	0.52	0.50	0.21	0.36	0.79
	(0.14)	(0.17)	(0.15)	(0.23)	(0.35)
<b>Shorthead redhorse</b>	2.73	1.90	2.67	13.63	3.79
	(0.51)	(0.58)	(1.10)	(2.22)	(1.10)
<b>Unidentified redhorse</b>	0.18	0.15	0.13		0.25
	(0.06)	(0.08)	(0.07)		(0.15)
<b>Unidentified sucker</b>	0.01				0.04

	(0.01)				(0.04)
<b>Black bullhead</b>	0.02	0.05			
	(0.02)	(0.05)			
<b>Yellow bullhead</b>	0.02	0.05			
	(0.02)	(0.05)			
<b>Channel catfish</b>	0.10	0.10	0.13		0.08
	(0.04)	(0.07)	(0.07)		(0.06)
<b>Tadpole madtom</b>	0.01		0.04		
	(0.01)		(0.04)		
<b>Flathead catfish</b>	0.08	0.10	0.04		0.08
	(0.04)	(0.07)	(0.04)		(0.08)
<b>Northern pike</b>	0.56	1.00	0.21		0.25
	(0.18)	(0.41)	(0.08)		(0.09)
<b>Brook silverside</b>	0.04	0.10			
	(0.03)	(0.07)			
<b>White bass</b>	1.68	0.40	2.67	0.42	2.63
	(0.28)	(0.18)	(0.80)	(0.27)	(0.55)
<b>Rock bass</b>	1.22	1.05	1.17		1.50
	(0.26)	(0.35)	(0.43)		(0.58)
<b>Green sunfish</b>	0.09	0.20			
	(0.09)	(0.20)			
<b>Pumpkinseed</b>	0.07	0.10	0.04		0.04
	(0.03)	(0.07)	(0.04)		(0.04)

<b>Bluegill</b>	8.39	14.40	2.00	0.17	5.42
	(2.02)	(4.52)	(0.76)	(0.17)	(1.74)
<b>Green x pumpkinseed sunfish</b>	0.01				0.04
	(0.01)				(0.04)
<b>Green x bluegill sunfish</b>	0.02	0.05			
	(0.02)	(0.05)			
<b>Pumpkinseed x bluegill</b>	0.02	0.05			
	(0.02)	(0.05)			
<b>Smallmouth bass</b>	1.75	0.75	2.29	6.67	2.63
	(0.31)	(0.45)	(0.54)	(5.50)	(0.66)
<b>Largemouth bass</b>	6.83	8.75	1.46	0.19	8.50
	(1.47)	(2.58)	(0.60)	(0.19)	(3.03)
<b>White crappie</b>	0.17	0.30	0.17		
	(0.13)	(0.30)	(0.13)		
<b>Black crappie</b>	0.96	0.70	2.17		0.38
	(0.41)	(0.31)	(1.55)		(0.18)
<b>Johnny darter</b>	0.04	0.05	0.08		
	(0.03)	(0.05)	(0.06)		
<b>Yellow perch</b>	3.40	6.00	1.46		1.46
	(0.94)	(2.11)	(0.79)		(0.54)
<b>Logperch</b>	0.46	0.50	0.83		0.13
	(0.22)	(0.35)	(0.63)		(0.07)
<b>Slenderhead darter</b>	0.01		0.04	0.17	

	(0.01)		(0.04)	(0.17)	
<b>River darter</b>	0.01		0.04	0.17	
	(0.01)		(0.04)	(0.17)	
<b>Sauger</b>	0.32	0.45	0.13		0.29
	(0.09)	(0.17)	(0.07)		(0.18)
<b>Walleye</b>	1.21	2.00	0.79	0.50	0.50
	(0.56)	(1.28)	(0.40)	(0.50)	(0.16)
<b>Freshwater drum</b>	1.01	1.35	0.54	1.66	0.92
	(0.17)	(0.33)	(0.22)	(0.56)	(0.27)

**Sampling strata:****BWCS - Backwater, contiguous, 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/2001/pool\\_4/tb3\\_mn0003.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/pool_4/tb3_mn0003.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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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 2001. 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
<b>Longnose gar</b>	0.11	0.11
	(0.11)	(0.11)
<b>Shortnose gar</b>	0.17	0.17
	(0.12)	(0.12)
<b>Bowfin</b>	1.32	1.32
	(0.38)	(0.39)
<b>Gizzard shad</b>	0.48	0.48
	(0.21)	(0.21)
<b>Common carp</b>	2.34	2.34
	(0.65)	(0.65)
<b>River carpsucker</b>	0.29	0.29
	(0.23)	(0.23)
<b>Quillback</b>	0.34	0.34

	(0.23)	(0.23)
<b>Smallmouth buffalo</b>	0.68	0.68
	(0.36)	(0.36)
<b>Spotted sucker</b>	1.05	1.05
	(0.57)	(0.57)
<b>Silver redhorse</b>	5.66	5.66
	(2.14)	(2.15)
<b>Golden redhorse</b>	0.40	0.40
	(0.28)	(0.29)
<b>Shorthead redhorse</b>	2.55	2.55
	(1.44)	(1.44)
<b>Yellow bullhead</b>	0.06	0.06
	(0.06)	(0.06)
<b>Channel catfish</b>	0.23	0.23
	(0.17)	(0.17)
<b>Flathead catfish</b>	0.06	0.06
	(0.06)	(0.06)
<b>Northern pike</b>	0.34	0.34
	(0.20)	(0.20)
<b>White bass</b>	0.34	0.34
	(0.14)	(0.14)
<b>Rock bass</b>	1.77	1.77
	(0.63)	(0.63)

<b>Green sunfish</b>	0.05	0.05
	(0.05)	(0.05)
<b>Pumpkinseed</b>	2.02	2.02
	(1.27)	(1.27)
<b>Bluegill</b>	41.36	41.36
	(20.68)	(20.73)
<b>Green x bluegill sunfish</b>	0.21	0.21
	(0.15)	(0.15)
<b>Pumpkinseed x bluegill</b>	0.06	0.06
	(0.06)	(0.06)
<b>Smallmouth bass</b>	0.06	0.06
	(0.06)	(0.06)
<b>Largemouth bass</b>	0.52	0.52
	(0.31)	(0.31)
<b>White crappie</b>	2.76	2.76
	(2.47)	(2.48)
<b>Black crappie</b>	12.52	12.52
	(3.98)	(3.99)
<b>Yellow perch</b>	3.89	3.89
	(1.45)	(1.46)
<b>Walleye</b>	0.13	0.13
	(0.09)	(0.09)
<b>Freshwater drum</b>	1.26	1.26

	(0.56)	(0.56)
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**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 2001. 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>	0.06	0.06
	(0.05)	(0.05)
<b>Shortnose gar</b>	0.40	0.40
	(0.26)	(0.26)
<b>Bowfin</b>	0.54	0.54
	(0.25)	(0.25)
<b>Gizzard shad</b>	10.86	10.86
	(9.32)	(9.35)
<b>Common carp</b>	1.36	1.36
	(0.37)	(0.37)
<b>River carpsucker</b>	0.09	0.09
	(0.07)	(0.07)
<b>Quillback</b>	0.04	0.04

	(0.03)	(0.03)
<b>White sucker</b>	0.06	0.06
	(0.06)	(0.06)
<b>Smallmouth buffalo</b>	0.41	0.41
	(0.28)	(0.28)
<b>Spotted sucker</b>	0.18	0.18
	(0.11)	(0.11)
<b>Silver redhorse</b>	2.59	2.59
	(1.06)	(1.07)
<b>Golden redhorse</b>	0.15	0.15
	(0.08)	(0.08)
<b>Shorthead redhorse</b>	1.08	1.08
	(0.39)	(0.39)
<b>Black bullhead</b>	0.02	0.02
	(0.02)	(0.02)
<b>Channel catfish</b>	0.04	0.04
	(0.03)	(0.03)
<b>Flathead catfish</b>	0.10	0.10
	(0.06)	(0.06)
<b>Northern pike</b>	0.27	0.27
	(0.10)	(0.10)
<b>White bass</b>	1.43	1.43
	(0.63)	(0.64)

<b>Rock bass</b>	1.21	1.21
	(0.33)	(0.34)
<b>Pumpkinseed</b>	0.28	0.28
	(0.10)	(0.10)
<b>Bluegill</b>	10.87	10.87
	(1.77)	(1.78)
<b>Green x bluegill sunfish</b>	0.04	0.04
	(0.03)	(0.03)
<b>Largemouth bass</b>	0.04	0.04
	(0.03)	(0.03)
<b>White crappie</b>	0.78	0.78
	(0.59)	(0.59)
<b>Black crappie</b>	9.25	9.25
	(1.30)	(1.30)
<b>Yellow perch</b>	3.95	3.95
	(1.44)	(1.44)
<b>Sauger</b>	0.09	0.09
	(0.05)	(0.05)
<b>Walleye</b>	0.17	0.17
	(0.08)	(0.08)
<b>Freshwater drum</b>	2.66	2.66
	(0.49)	(0.49)

**Sampling stratum:**

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

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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 2001. 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>Shortnose gar</b>	0.04	0.06		0.05
	(0.03)	(0.06)		(0.05)
<b>Bowfin</b>	0.14	0.28		0.05
	(0.05)	(0.11)		(0.05)
<b>Gizzard shad</b>	1.32	1.52	1.36	1.04
	(0.51)	(0.84)	(1.20)	(0.64)
<b>Spotfin shiner</b>	5.31	1.03	1.02	14.38
	(3.78)	(0.87)	(0.54)	(11.75)
<b>Common carp</b>	0.10	0.23		
	(0.04)	(0.11)		
<b>Speckled chub</b>	0.02			0.06
	(0.02)			(0.06)
<b>Golden shiner</b>	0.02	0.05		

	(0.02)	(0.05)		
<b>Emerald shiner</b>	9.06	11.17	10.65	5.01
	(3.69)	(6.99)	(6.68)	(4.28)
<b>River shiner</b>	0.09		0.35	
	(0.09)		(0.35)	
<b>Spottail shiner</b>	0.23	0.18		0.48
	(0.12)	(0.18)		(0.29)
<b>Weed shiner</b>	0.21			0.65
	(0.21)			(0.65)
<b>Mimic shiner</b>	0.31		0.83	0.33
	(0.16)		(0.52)	(0.27)
<b>Pugnose minnow</b>	2.93	2.93	0.40	4.89
	(1.58)	(1.58)	(0.40)	(4.44)
<b>Bluntnose minnow</b>	0.23	0.49	0.09	
	(0.21)	(0.49)	(0.09)	
<b>Bullhead minnow</b>	1.69	1.29	2.00	1.99
	(0.68)	(0.94)	(1.27)	(1.37)
<b>Unidentified minnow</b>	0.48	1.12		
	(0.48)	(1.12)		
<b>White sucker</b>	0.03	0.06		
	(0.03)	(0.06)		
<b>Smallmouth buffalo</b>	0.04	0.10		
	(0.04)	(0.10)		

<b>Bigmouth buffalo</b>	0.04	0.10		
	(0.04)	(0.10)		
<b>Spotted sucker</b>	0.02	0.06		
	(0.02)	(0.06)		
<b>Silver redhorse</b>	0.16	0.29	0.09	0.06
	(0.08)	(0.19)	(0.09)	(0.06)
<b>Golden redhorse</b>	0.03	0.06		
	(0.03)	(0.06)		
<b>Shorthead redhorse</b>	0.10		0.09	0.24
	(0.05)		(0.09)	(0.14)
<b>Yellow bullhead</b>	0.02	0.05		
	(0.02)	(0.05)		
<b>Channel catfish</b>	0.04		0.09	0.06
	(0.03)		(0.09)	(0.06)
<b>Tadpole madtom</b>	0.03	0.06		
	(0.03)	(0.06)		
<b>Flathead catfish</b>	0.02		0.08	
	(0.02)		(0.08)	
<b>Northern pike</b>	0.33	0.11	0.34	0.60
	(0.14)	(0.08)	(0.18)	(0.42)
<b>Trout perch</b>	0.08	0.06		0.17
	(0.05)	(0.06)		(0.12)
<b>White bass</b>	0.54	0.59	0.34	0.62

	(0.21)	(0.42)	(0.27)	(0.29)
<b>Rock bass</b>	0.88	0.71	0.88	1.11
	(0.19)	(0.26)	(0.28)	(0.42)
<b>Pumpkinseed</b>	0.04	0.06		0.06
	(0.03)	(0.06)		(0.06)
<b>Bluegill</b>	19.27	35.18	4.98	9.14
	(9.67)	(22.42)	(1.87)	(3.37)
<b>Green x pumpkinseed sunfish</b>	0.03	0.06		
	(0.03)	(0.06)		
<b>Pumpkinseed x bluegill</b>	0.08	0.18		
	(0.04)	(0.10)		
<b>Smallmouth bass</b>	0.07			0.22
	(0.05)			(0.17)
<b>Largemouth bass</b>	1.01	0.70	0.32	1.96
	(0.62)	(0.41)	(0.24)	(1.85)
<b>White crappie</b>	0.15	0.29	0.09	
	(0.09)	(0.20)	(0.09)	
<b>Black crappie</b>	1.63	2.33	0.33	1.71
	(0.57)	(0.93)	(0.19)	(1.24)
<b>Unidentified sunfish</b>	0.25	0.59		
	(0.25)	(0.59)		
<b>Mud darter</b>	0.10	0.11		0.18
	(0.05)	(0.08)		(0.13)

<b>Johnny darter</b>	0.45	0.45	0.18	0.67
	(0.15)	(0.23)	(0.12)	(0.34)
<b>Yellow perch</b>	0.23	0.45		0.11
	(0.09)	(0.20)		(0.11)
<b>Logperch</b>	0.48		0.09	1.42
	(0.42)		(0.09)	(1.30)
<b>River darter</b>	0.15		0.62	
	(0.15)		(0.62)	
<b>Sauger</b>	0.02			0.05
	(0.02)			(0.05)
<b>Walleye</b>	0.03			0.10
	(0.02)			(0.07)
<b>Freshwater drum</b>	0.22	0.33	0.16	0.12
	(0.09)	(0.20)	(0.11)	(0.08)
<b>Larval fish</b>	0.90	1.09	0.54	0.93
	(0.47)	(0.85)	(0.54)	(0.82)
<b>Unidentified</b>	1.44		5.76	
	(1.44)		(5.76)	

**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 netting in Pool 4 of the Upper Mississippi River using stratified random sampling during 2001. 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>	0.02	0.02
	(0.02)	(0.02)
<b>Gizzard shad</b>	0.78	0.78
	(0.25)	(0.26)
<b>Spotfin shiner</b>	0.73	0.73
	(0.66)	(0.66)
<b>Common carp</b>	0.11	0.11
	(0.04)	(0.04)
<b>Silver chub</b>	0.02	0.02
	(0.02)	(0.02)
<b>Golden shiner</b>	0.02	0.02

	(0.02)	(0.02)
<b>Emerald shiner</b>	0.46	0.46
	(0.15)	(0.15)
<b>Spottail shiner</b>	0.49	0.49
	(0.29)	(0.29)
<b>Weed shiner</b>	0.37	0.37
	(0.37)	(0.37)
<b>Mimic shiner</b>	0.12	0.12
	(0.12)	(0.12)
<b>Pugnose minnow</b>	14.56	14.56
	(7.94)	(7.96)
<b>Bluntnose minnow</b>	0.02	0.02
	(0.02)	(0.02)
<b>Bullhead minnow</b>	10.33	10.33
	(2.92)	(2.92)
<b>Smallmouth buffalo</b>	0.67	0.67
	(0.55)	(0.55)
<b>Bigmouth buffalo</b>	0.04	0.04
	(0.04)	(0.04)
<b>Unidentified buffalo</b>	0.02	0.02
	(0.02)	(0.02)
<b>Silver redhorse</b>	0.28	0.28
	(0.12)	(0.12)

<b>Tadpole madtom</b>	0.04	0.04
	(0.03)	(0.03)
<b>Flathead catfish</b>	0.16	0.16
	(0.11)	(0.11)
<b>Northern pike</b>	0.02	0.02
	(0.02)	(0.02)
<b>Trout perch</b>	0.43	0.43
	(0.41)	(0.41)
<b>White bass</b>	0.64	0.64
	(0.45)	(0.45)
<b>Rock bass</b>	1.00	1.00
	(0.19)	(0.19)
<b>Pumpkinseed</b>	0.04	0.04
	(0.04)	(0.04)
<b>Bluegill</b>	27.16	27.16
	(16.16)	(16.20)
<b>Pumpkinseed x bluegill</b>	0.02	0.02
	(0.02)	(0.02)
<b>Smallmouth bass</b>	0.02	0.02
	(0.02)	(0.02)
<b>Largemouth bass</b>	0.72	0.72
	(0.67)	(0.67)
<b>White crappie</b>	0.73	0.73

	(0.47)	(0.47)
<b>Black crappie</b>	6.95	6.95
	(3.41)	(3.42)
<b>Unidentified sunfish</b>	32.83	32.83
	(28.11)	(28.18)
<b>Mud darter</b>	0.08	0.08
	(0.05)	(0.05)
<b>Johnny darter</b>	0.42	0.42
	(0.16)	(0.16)
<b>Yellow perch</b>	0.20	0.20
	(0.07)	(0.07)
<b>Logperch</b>	0.22	0.22
	(0.18)	(0.18)
<b>River darter</b>	0.16	0.16
	(0.14)	(0.14)
<b>Sauger</b>	0.02	0.02
	(0.02)	(0.02)
<b>Walleye</b>	0.02	0.02
	(0.02)	(0.02)
<b>Freshwater drum</b>	0.39	0.39
	(0.11)	(0.11)
<b>Larval fish</b>	0.26	0.26
	(0.24)	(0.24)

**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 2001. 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
American eel	0.02	0.04	
	(0.02)	(0.04)	
Common carp	0.23		0.41
	(0.15)		(0.27)
Silver chub	0.13	0.09	0.17
	(0.05)	(0.09)	(0.07)
Smallmouth buffalo	0.16	0.22	0.11
	(0.06)	(0.10)	(0.07)
Silver redhorse	0.05	0.09	0.03
	(0.04)	(0.09)	(0.03)
Shorthead redhorse	0.08	0.17	
	(0.06)	(0.13)	
Channel catfish	0.80	0.08	1.36

	(0.63)	(0.06)	(1.13)
<b>Flathead catfish</b>	0.03	0.04	0.03
	(0.02)	(0.04)	(0.03)
<b>White bass</b>	0.08	0.04	0.11
	(0.05)	(0.04)	(0.09)
<b>Rock bass</b>	0.03	0.04	0.03
	(0.02)	(0.04)	(0.03)
<b>Bluegill</b>	0.40	0.72	0.14
	(0.28)	(0.63)	(0.10)
<b>Green x bluegill sunfish</b>	0.02		0.03
	(0.02)		(0.03)
<b>Smallmouth bass</b>	0.07	0.04	0.09
	(0.05)	(0.04)	(0.09)
<b>Black crappie</b>	0.03		0.06
	(0.02)		(0.04)
<b>Freshwater drum</b>	0.05		0.08
	(0.03)		(0.05)

**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 2001. 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>	0.90	0.04	1.58
	(0.29)	(0.04)	(0.51)
<b>White sucker</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Smallmouth buffalo</b>	1.51	2.67	0.61
	(0.36)	(0.77)	(0.24)
<b>Silver redhorse</b>	0.27	0.25	0.28
	(0.13)	(0.15)	(0.21)
<b>Shorthead redhorse</b>	0.31	0.42	0.23
	(0.09)	(0.17)	(0.08)
<b>Channel catfish</b>	1.29	1.43	1.18
	(0.52)	(0.97)	(0.55)
<b>Flathead catfish</b>	0.16	0.04	0.26

	(0.06)	(0.04)	(0.09)
<b>Northern pike</b>	0.06	0.04	0.08
	(0.03)	(0.04)	(0.04)
<b>White bass</b>	0.43	0.13	0.67
	(0.16)	(0.07)	(0.28)
<b>Bluegill</b>	0.16	0.25	0.08
	(0.10)	(0.21)	(0.06)
<b>White crappie</b>	0.02		0.03
	(0.02)		(0.03)
<b>Black crappie</b>	0.19	0.17	0.21
	(0.09)	(0.13)	(0.13)
<b>Walleye</b>	0.05	0.04	0.06
	(0.03)	(0.04)	(0.04)
<b>Freshwater drum</b>	0.46	0.34	0.56
	(0.12)	(0.18)	(0.16)

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

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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 2001. 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>Longnose gar</b>	0.05	0.11	
	(0.03)	(0.07)	
<b>Gizzard shad</b>	16.64	29.92	6.28
	(8.90)	(20.21)	(2.59)
<b>Spotfin shiner</b>	7.68	11.00	5.08
	(2.20)	(4.70)	(1.47)
<b>Common carp</b>	0.06	0.06	0.06
	(0.04)	(0.06)	(0.06)
<b>Silver chub</b>	0.02		0.03
	(0.02)		(0.03)
<b>Emerald shiner</b>	110.24	42.61	163.00
	(48.74)	(14.39)	(86.58)
<b>River shiner</b>	5.12	3.11	6.69

	(2.52)	(0.97)	(4.45)
<b>Spottail shiner</b>	0.35	0.42	0.31
	(0.12)	(0.21)	(0.14)
<b>Sand shiner</b>	0.30		0.53
	(0.23)		(0.42)
<b>Mimic shiner</b>	1.22	1.61	0.92
	(0.49)	(0.79)	(0.62)
<b>Pugnose minnow</b>	0.03	0.03	0.03
	(0.02)	(0.03)	(0.03)
<b>Bluntnose minnow</b>	0.09	0.19	
	(0.06)	(0.14)	
<b>Bullhead minnow</b>	6.87	5.03	8.31
	(1.72)	(2.33)	(2.50)
<b>Quillback</b>	0.15	0.03	0.25
	(0.09)	(0.03)	(0.16)
<b>Unidentified carpsucker</b>	0.46	0.08	0.75
	(0.21)	(0.05)	(0.37)
<b>Northern hog sucker</b>	0.02	0.06	
	(0.02)	(0.04)	
<b>Smallmouth buffalo</b>	0.03		0.06
	(0.02)		(0.04)
<b>Shorthead redhorse</b>	0.01	0.03	
	(0.01)	(0.03)	

<b>Unidentified redhorse</b>	0.10	0.08	0.11
	(0.05)	(0.05)	(0.09)
<b>Channel catfish</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Tadpole madtom</b>	0.05		0.08
	(0.05)		(0.08)
<b>Northern pike</b>	0.31	0.14	0.44
	(0.11)	(0.06)	(0.18)
<b>Trout perch</b>	0.02		0.03
	(0.02)		(0.03)
<b>Brook silverside</b>	0.82	0.06	1.42
	(0.61)	(0.04)	(1.10)
<b>White bass</b>	0.11	0.11	0.11
	(0.05)	(0.09)	(0.05)
<b>Rock bass</b>	0.57	0.19	0.86
	(0.26)	(0.12)	(0.46)
<b>Green sunfish</b>	0.02	0.06	
	(0.02)	(0.06)	
<b>Bluegill</b>	5.68	4.69	6.44
	(2.18)	(3.03)	(3.12)
<b>Smallmouth bass</b>	0.35	0.11	0.53
	(0.10)	(0.05)	(0.18)
<b>Largemouth bass</b>	1.45	1.25	1.61

	(0.34)	(0.56)	(0.44)
<b>Black crappie</b>	0.38	0.11	0.58
	(0.25)	(0.09)	(0.45)
<b>Unidentified sunfish</b>	0.30		0.53
	(0.20)		(0.36)
<b>Mud darter</b>	0.06	0.11	0.03
	(0.05)	(0.11)	(0.03)
<b>Johnny darter</b>	0.56	0.31	0.75
	(0.16)	(0.14)	(0.27)
<b>Yellow perch</b>	0.49	0.94	0.14
	(0.34)	(0.78)	(0.06)
<b>Logperch</b>	0.08	0.08	0.08
	(0.04)	(0.06)	(0.06)
<b>Slenderhead darter</b>	0.02		0.03
	(0.02)		(0.03)
<b>River darter</b>	0.03		0.06
	(0.03)		(0.06)
<b>Walleye</b>	0.05	0.08	0.03
	(0.03)	(0.06)	(0.03)
<b>Freshwater drum</b>	0.25	0.22	0.28
	(0.10)	(0.11)	(0.15)
<b>Larval fish</b>	0.81	0.03	1.42
	(0.79)	(0.03)	(1.42)

<b>Unidentified</b>	0.03		0.06
	(0.03)		(0.06)

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

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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 2001. 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
Silver lamprey	0.17
	(0.17)
Bowfin	0.17
	(0.17)
Gizzard shad	21.96
	(11.82)
Spotfin shiner	0.88
	(0.48)
Common carp	2.42
	(0.84)
Emerald shiner	40.63
	(16.24)
Mimic shiner	5.00
	(5.00)

<b>Bluntnose minnow</b>	0.83
	(0.83)
<b>Bullhead minnow</b>	1.17
	(0.83)
<b>Quillback</b>	0.38
	(0.24)
<b>Black buffalo</b>	0.17
	(0.17)
<b>River redhorse</b>	0.21
	(0.21)
<b>Golden redhorse</b>	0.21
	(0.21)
<b>Shorthead redhorse</b>	4.79
	(1.51)
<b>Channel catfish</b>	0.33
	(0.21)
<b>Flathead catfish</b>	0.50
	(0.34)
<b>Brook silverside</b>	0.17
	(0.17)
<b>White bass</b>	5.08
	(1.79)
<b>Green sunfish</b>	0.67

	(0.33)
<b>Bluegill</b>	5.63
	(4.08)
<b>Smallmouth bass</b>	5.42
	(2.11)
<b>Largemouth bass</b>	5.92
	(3.60)
<b>Black crappie</b>	0.17
	(0.17)
<b>Logperch</b>	6.00
	(2.88)
<b>Slenderhead darter</b>	0.50
	(0.34)
<b>River darter</b>	1.00
	(0.63)
<b>Sauger</b>	1.50
	(0.96)
<b>Walleye</b>	4.17
	(2.79)
<b>Freshwater drum</b>	0.88
	(0.48)

**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 2001. 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>Silver lamprey</b>	0.17
	(0.11)
<b>Paddlefish</b>	0.08
	(0.08)
<b>Longnose gar</b>	0.25
	(0.18)
<b>Shortnose gar</b>	0.42
	(0.19)
<b>Bowfin</b>	0.08
	(0.08)
<b>Goldeye</b>	0.08
	(0.08)
<b>Mooneye</b>	0.08
	(0.08)

<b>Gizzard shad</b>	50.25
	(32.21)
<b>Spotfin shiner</b>	0.50
	(0.42)
<b>Common carp</b>	8.00
	(1.21)
<b>Silver chub</b>	0.58
	(0.29)
<b>Emerald shiner</b>	438.50
	(177.42)
<b>Mimic shiner</b>	7.50
	(4.51)
<b>Bullhead minnow</b>	0.25
	(0.13)
<b>River carpsucker</b>	0.08
	(0.08)
<b>Quillback</b>	0.25
	(0.13)
<b>White sucker</b>	0.08
	(0.08)
<b>Blue sucker</b>	0.08
	(0.08)
<b>Smallmouth buffalo</b>	0.58

	(0.36)
<b>Bigmouth buffalo</b>	0.17
	(0.17)
<b>Unidentified buffalo</b>	0.08
	(0.08)
<b>Spotted sucker</b>	0.08
	(0.08)
<b>Silver redhorse</b>	0.33
	(0.19)
<b>Golden redhorse</b>	0.67
	(0.51)
<b>Shorthead redhorse</b>	2.92
	(1.28)
<b>Channel catfish</b>	0.33
	(0.14)
<b>Flathead catfish</b>	1.75
	(0.63)
<b>Northern pike</b>	0.67
	(0.36)
<b>Brook silverside</b>	0.25
	(0.18)
<b>White bass</b>	14.08
	(3.25)

<b>Rock bass</b>	0.08
	(0.08)
<b>Green sunfish</b>	0.58
	(0.42)
<b>Orangespotted sunfish</b>	0.08
	(0.08)
<b>Bluegill</b>	20.58
	(9.66)
<b>Smallmouth bass</b>	8.50
	(1.82)
<b>Largemouth bass</b>	8.00
	(4.11)
<b>White crappie</b>	1.58
	(1.14)
<b>Black crappie</b>	4.00
	(1.74)
<b>Yellow perch</b>	0.25
	(0.13)
<b>Logperch</b>	1.67
	(0.50)
<b>River darter</b>	0.08
	(0.08)
<b>Sauger</b>	25.33

	(10.01)
<b>Walleye</b>	18.83
	(7.49)
<b>Freshwater drum</b>	6.17
	(2.75)

**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 2001. 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>	0.60
	(0.60)
<b>Common carp</b>	3.15
	(2.95)
<b>Silver chub</b>	0.71
	(0.71)
<b>Silver redhorse</b>	0.35
	(0.35)
<b>Golden redhorse</b>	0.53
	(0.53)
<b>Shorthead redhorse</b>	2.18
	(0.90)
<b>Channel catfish</b>	0.37
	(0.24)

<b>Flathead catfish</b>	0.20
	(0.20)
<b>Northern pike</b>	0.18
	(0.18)
<b>White bass</b>	36.15
	(17.07)
<b>Bluegill</b>	9.66
	(3.27)
<b>White crappie</b>	0.72
	(0.36)
<b>Black crappie</b>	6.92
	(2.69)
<b>Sauger</b>	20.71
	(17.91)
<b>Walleye</b>	1.24
	(0.89)
<b>Freshwater drum</b>	18.73
	(12.53)

**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 2001. 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>	0.20
	(0.20)
<b>Gizzard shad</b>	2.77
	(1.67)
<b>Spotfin shiner</b>	10.10
	(5.32)
<b>Common carp</b>	0.52
	(0.52)
<b>Speckled chub</b>	2.46
	(2.23)
<b>Silver chub</b>	1.00
	(0.65)
<b>Emerald shiner</b>	3842.73
	(3046.50)

<b>Spottail shiner</b>	1.59
	(1.59)
<b>Mimic shiner</b>	100.03
	(84.84)
<b>Bullhead minnow</b>	4.42
	(3.03)
<b>Bigmouth buffalo</b>	0.20
	(0.20)
<b>Trout perch</b>	0.38
	(0.24)
<b>Brook silverside</b>	0.35
	(0.22)
<b>White bass</b>	0.95
	(0.46)
<b>Green sunfish</b>	0.35
	(0.22)
<b>Bluegill</b>	10.90
	(8.96)
<b>Smallmouth bass</b>	0.18
	(0.18)
<b>Largemouth bass</b>	0.18
	(0.18)
<b>Black crappie</b>	2.49

	(1.86)
<b>Yellow perch</b>	0.17
	(0.17)
<b>Logperch</b>	0.97
	(0.78)
<b>River darter</b>	1.99
	(1.40)
<b>Freshwater drum</b>	2.63
	(2.40)
<b>Larval fish</b>	0.79
	(0.79)

**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 2001. 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	0.08
	(0.08)
Common carp	3.99
	(1.73)
Smallmouth buffalo	0.25
	(0.25)
Shorthead redhorse	0.17
	(0.17)
Channel catfish	0.08
	(0.08)
Black crappie	0.08
	(0.08)
Sauger	0.08
	(0.08)

<b>Freshwater drum</b>	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 2001. 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>Shovelnose sturgeon</b>	0.18
	(0.18)
<b>Common carp</b>	4.71
	(2.16)
<b>Smallmouth buffalo</b>	9.55
	(8.67)
<b>Silver redhorse</b>	0.17
	(0.17)
<b>Shorthead redhorse</b>	0.42
	(0.42)
<b>Flathead catfish</b>	0.17
	(0.11)
<b>White bass</b>	0.93
	(0.93)

<b>Smallmouth bass</b>	0.08
	(0.08)
<b>Sauger</b>	1.60
	(1.60)
<b>Walleye</b>	0.08
	(0.08)
<b>Freshwater drum</b>	0.68
	(0.40)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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 2001. 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>Shovelnose sturgeon</b>	1.08
	(0.45)
<b>Gizzard shad</b>	0.50
	(0.29)
<b>Speckled chub</b>	0.33
	(0.19)
<b>Shorthead redhorse</b>	0.08
	(0.08)
<b>Channel catfish</b>	3.92
	(0.76)
<b>Flathead catfish</b>	2.25
	(2.16)
<b>Black crappie</b>	0.08
	(0.08)

<b>River darter</b>	0.25
	(0.25)
<b>Sauger</b>	0.33
	(0.22)
<b>Walleye</b>	0.42
	(0.34)
<b>Freshwater drum</b>	8.25
	(3.19)

**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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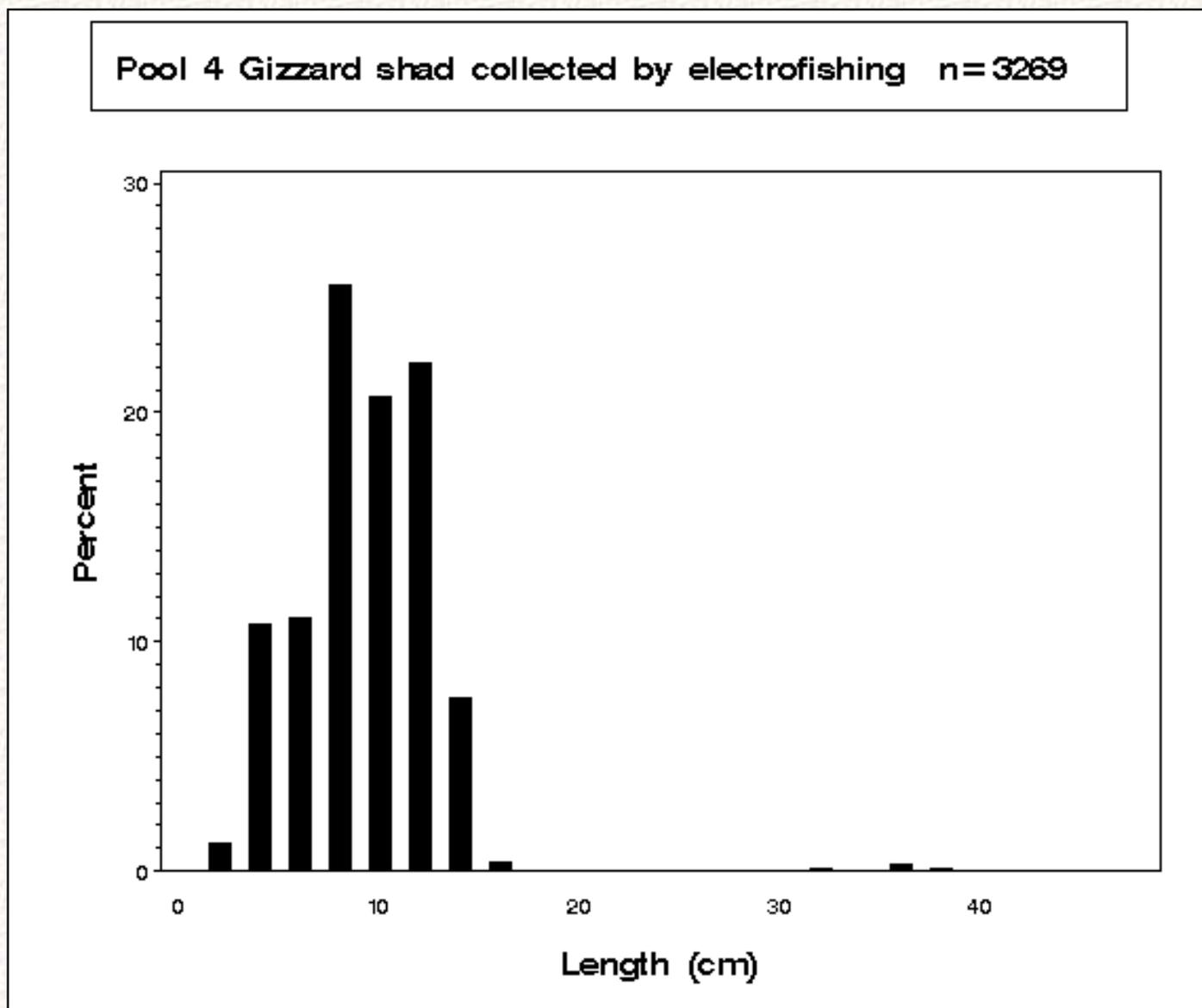
[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2001/figures/mn\\_figures\\_length.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/figures/mn_figures_length.html)

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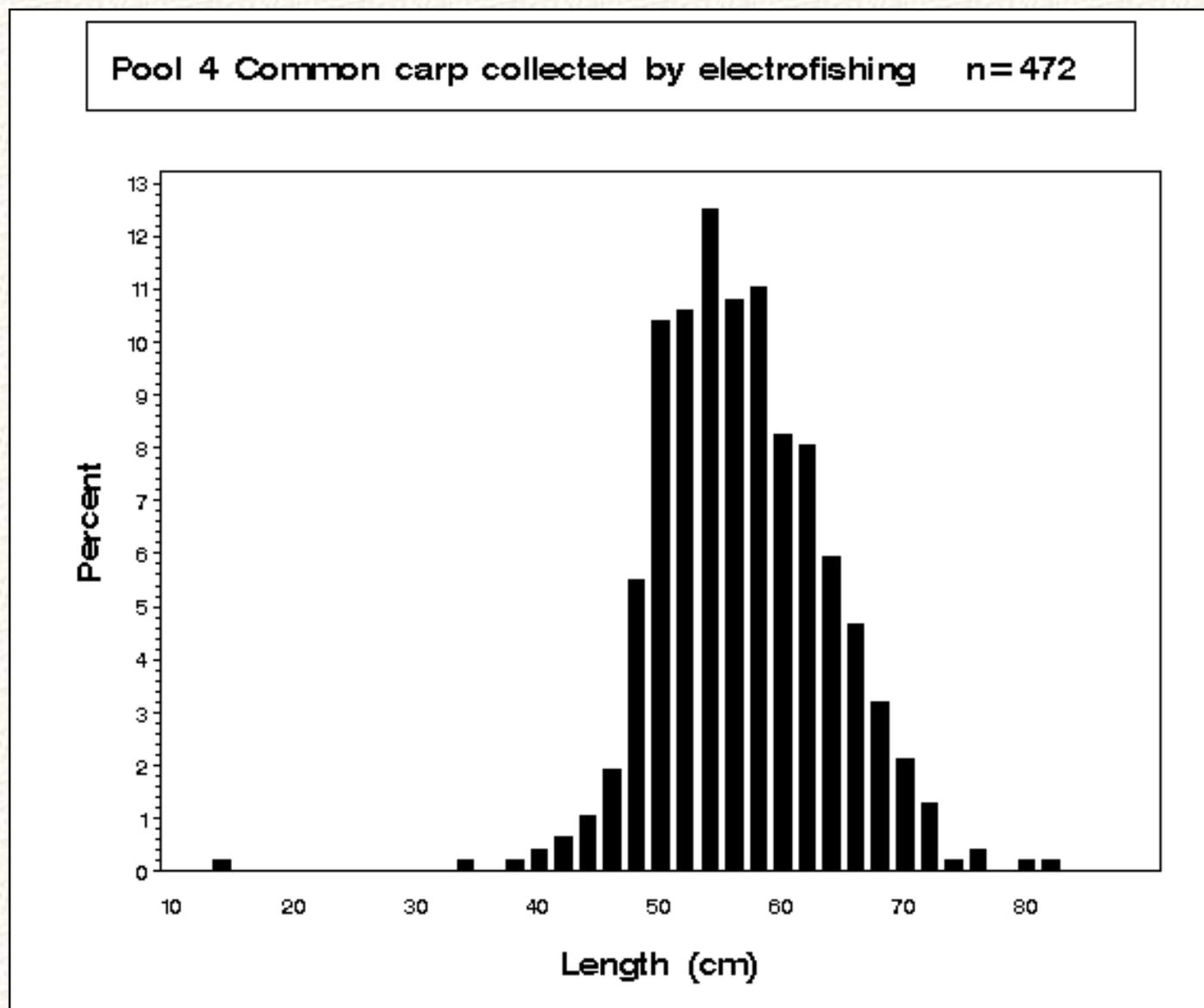
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**Figure 2.1** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



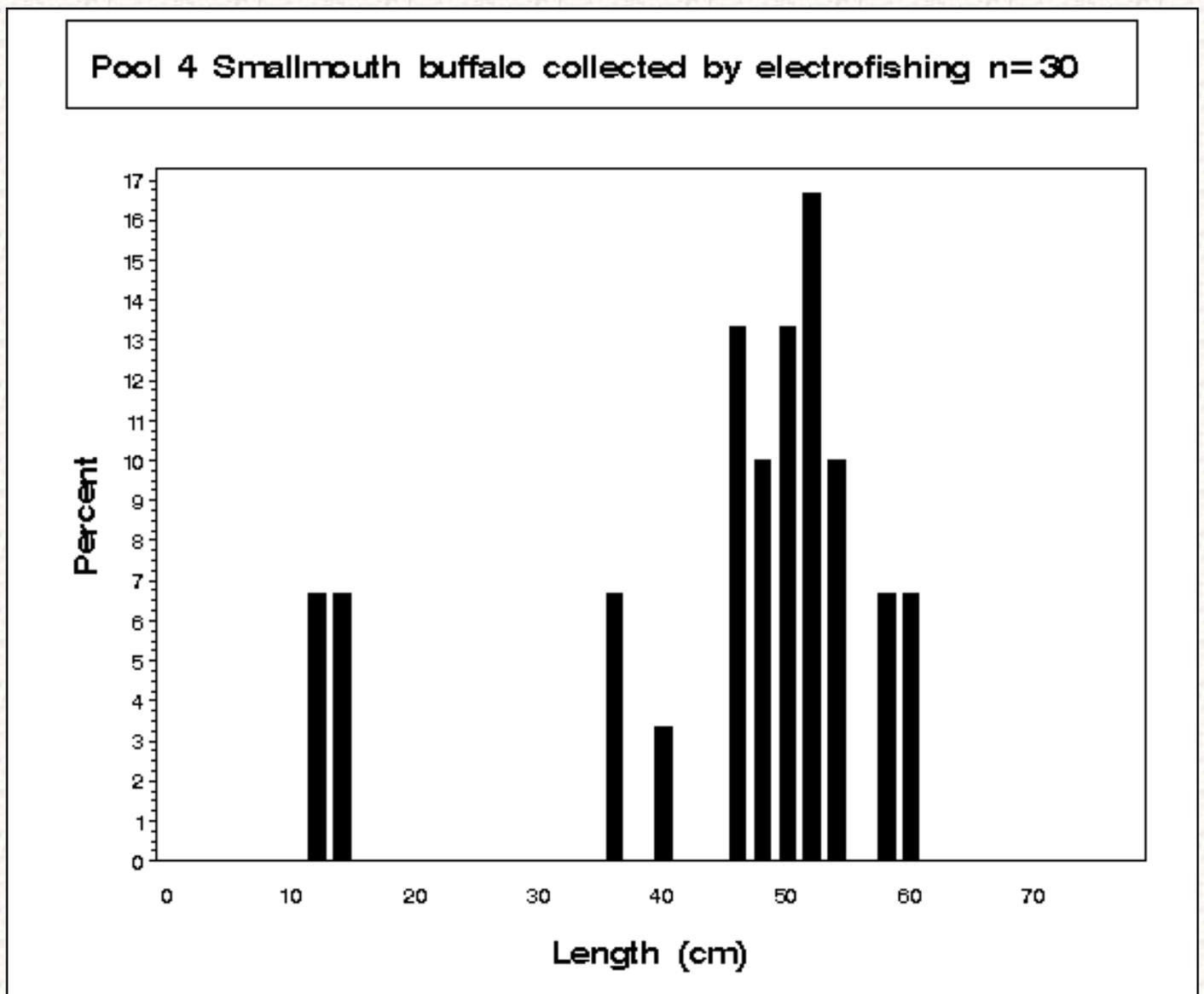
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**Figure 3.1** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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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 2001. [Click here](#) to view this species' length distributions in all study reaches.



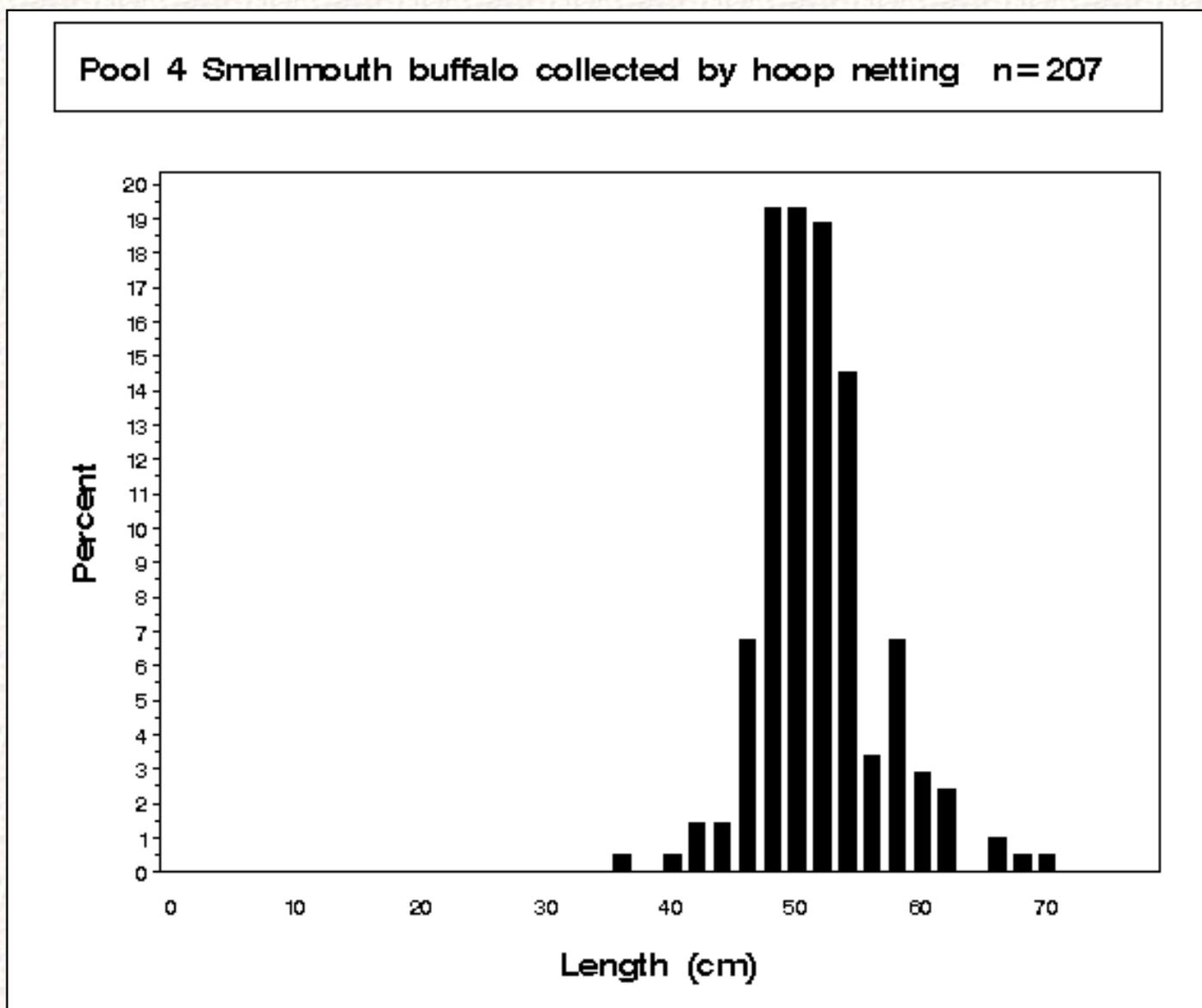


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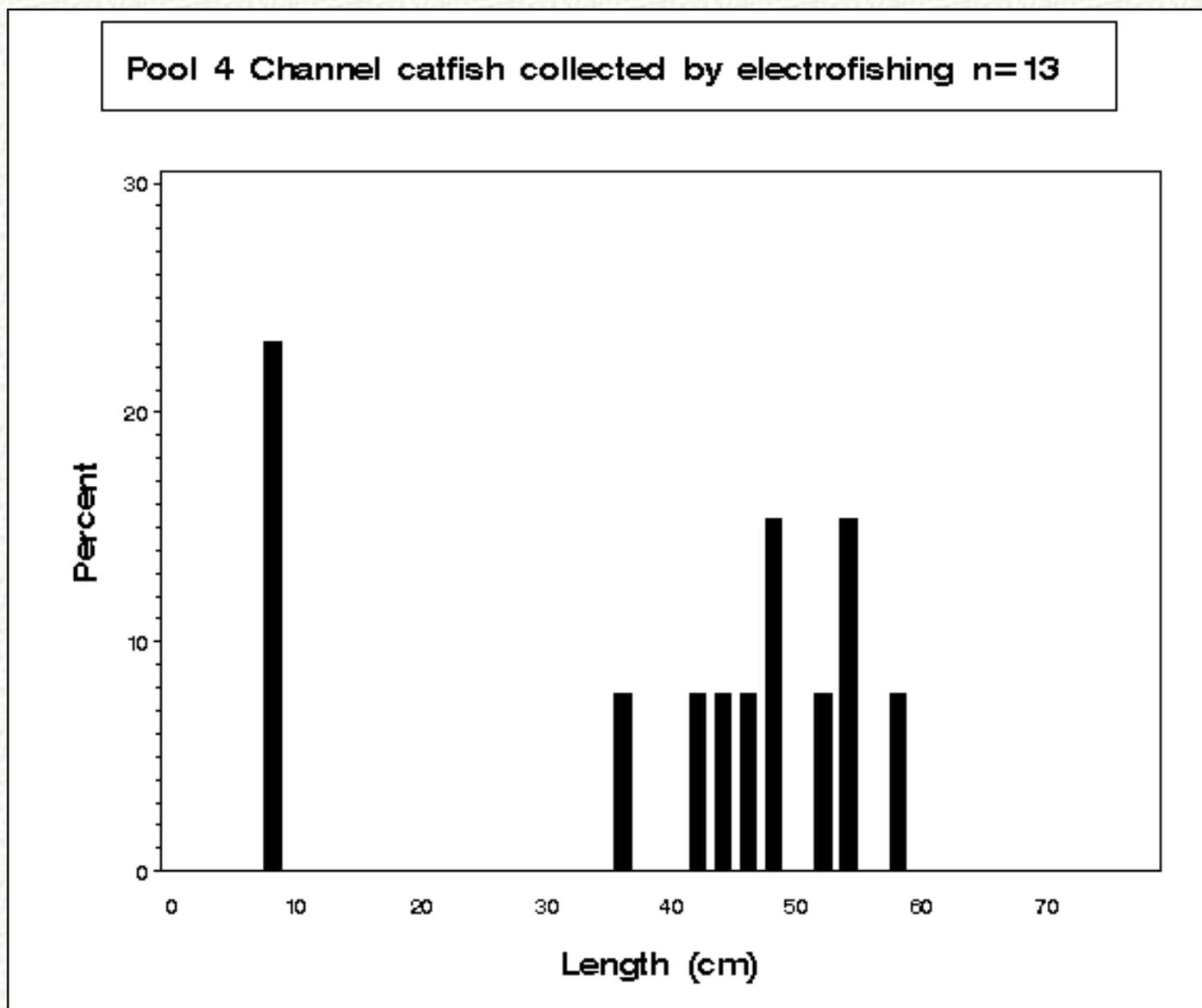
**Figure 5.1** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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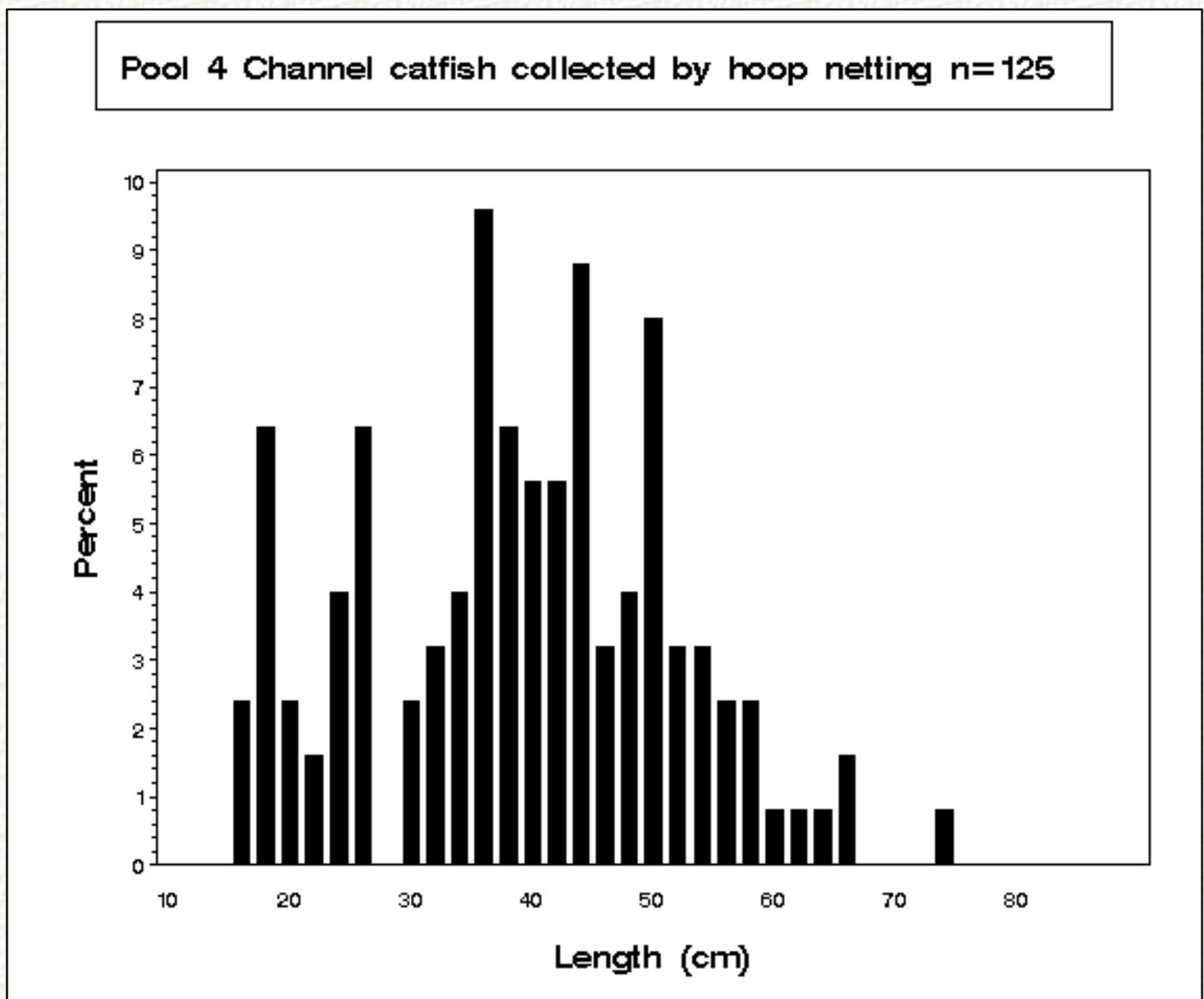
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**Figure 6.1** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



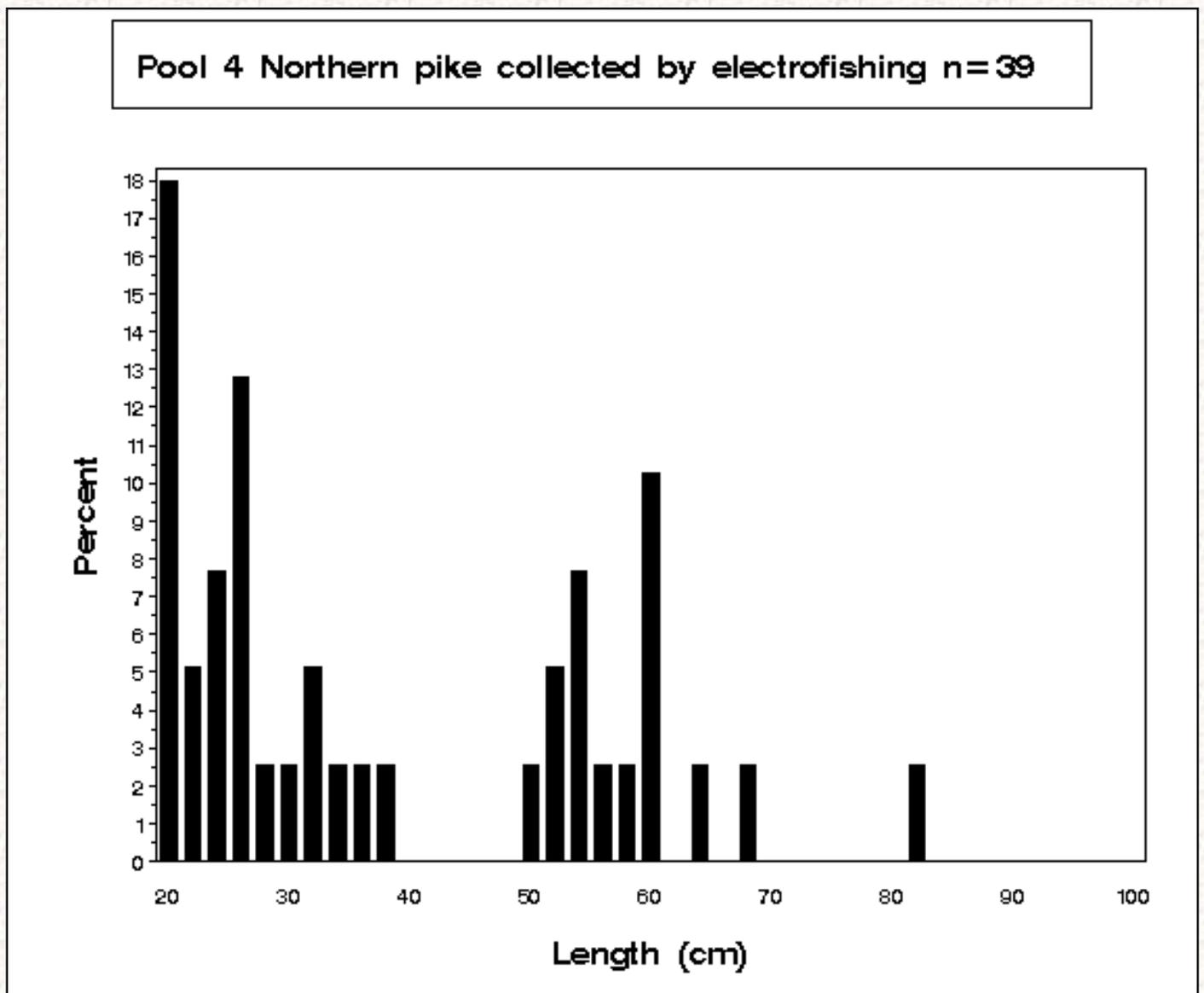
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**Figure 7.1** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



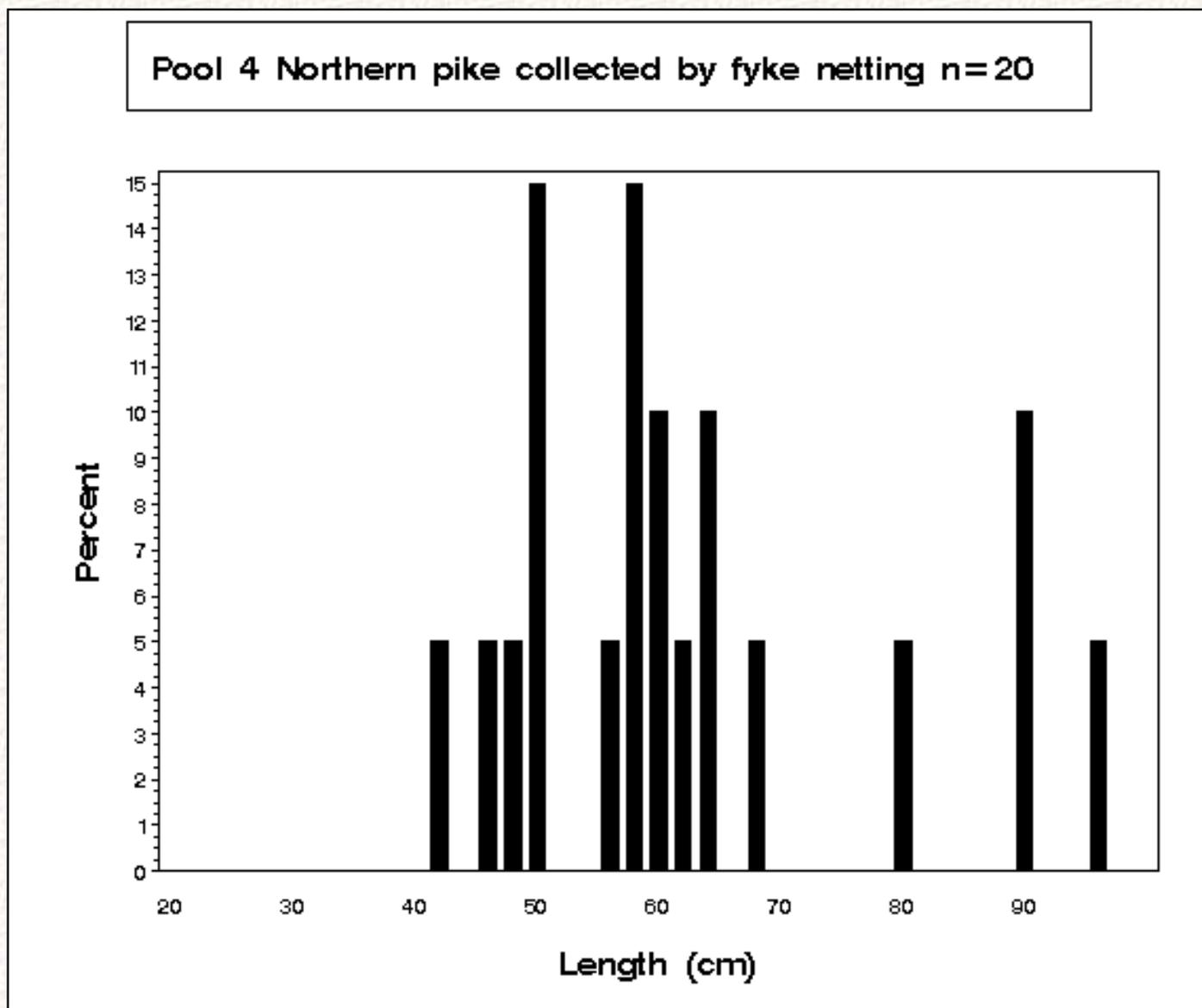
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**Figure 8.1** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



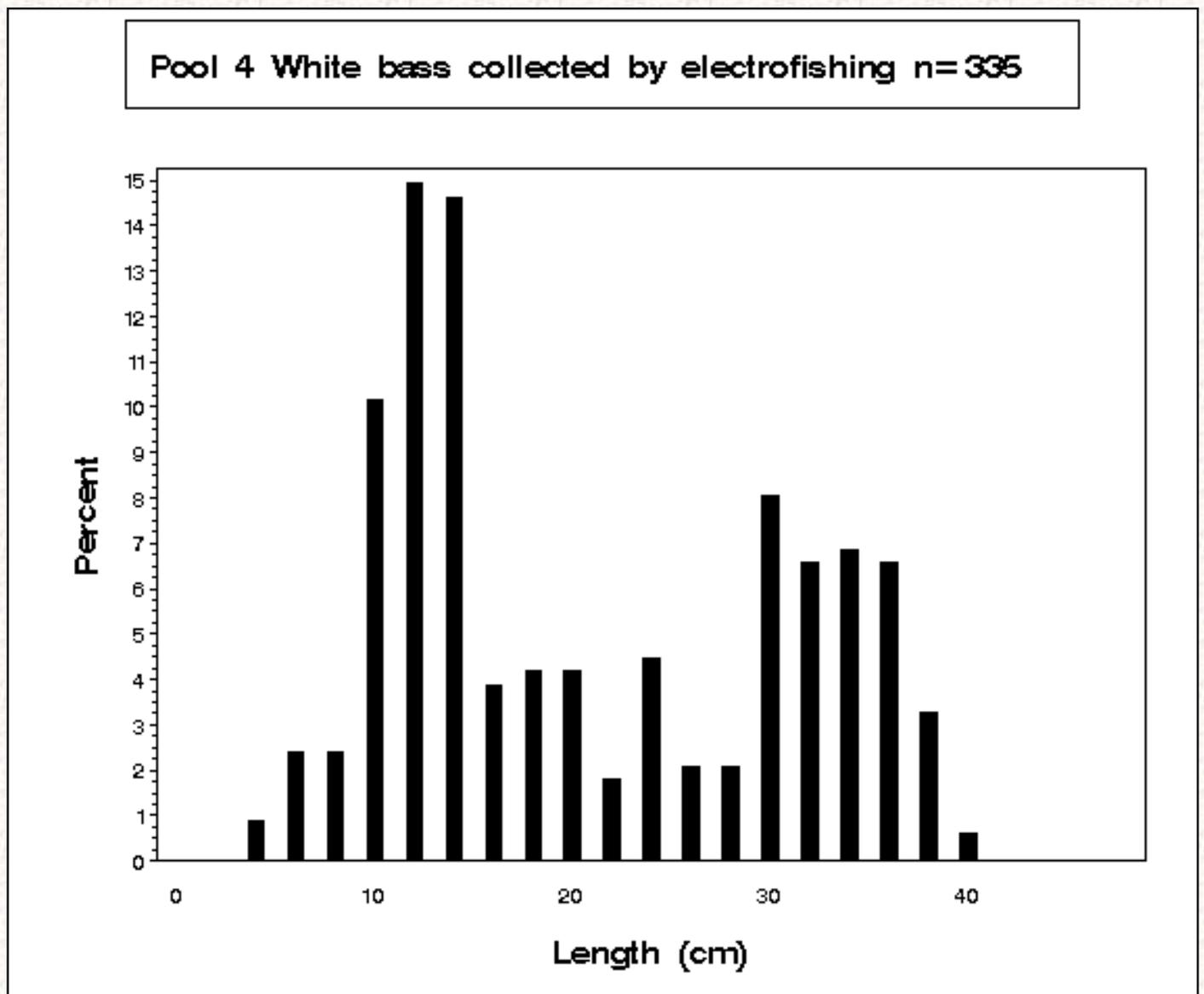
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**Figure 9.1** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



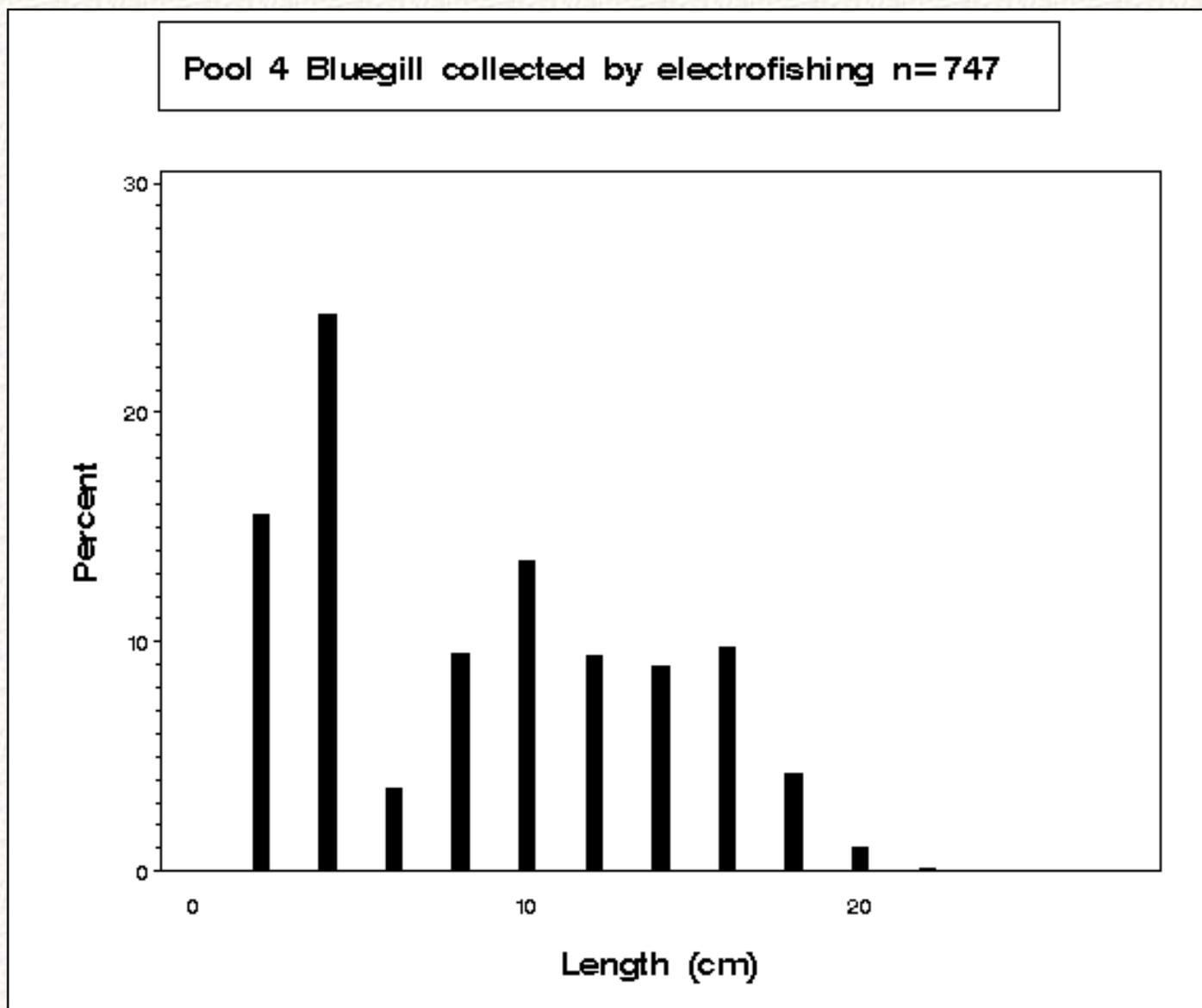
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**Figure 10.1** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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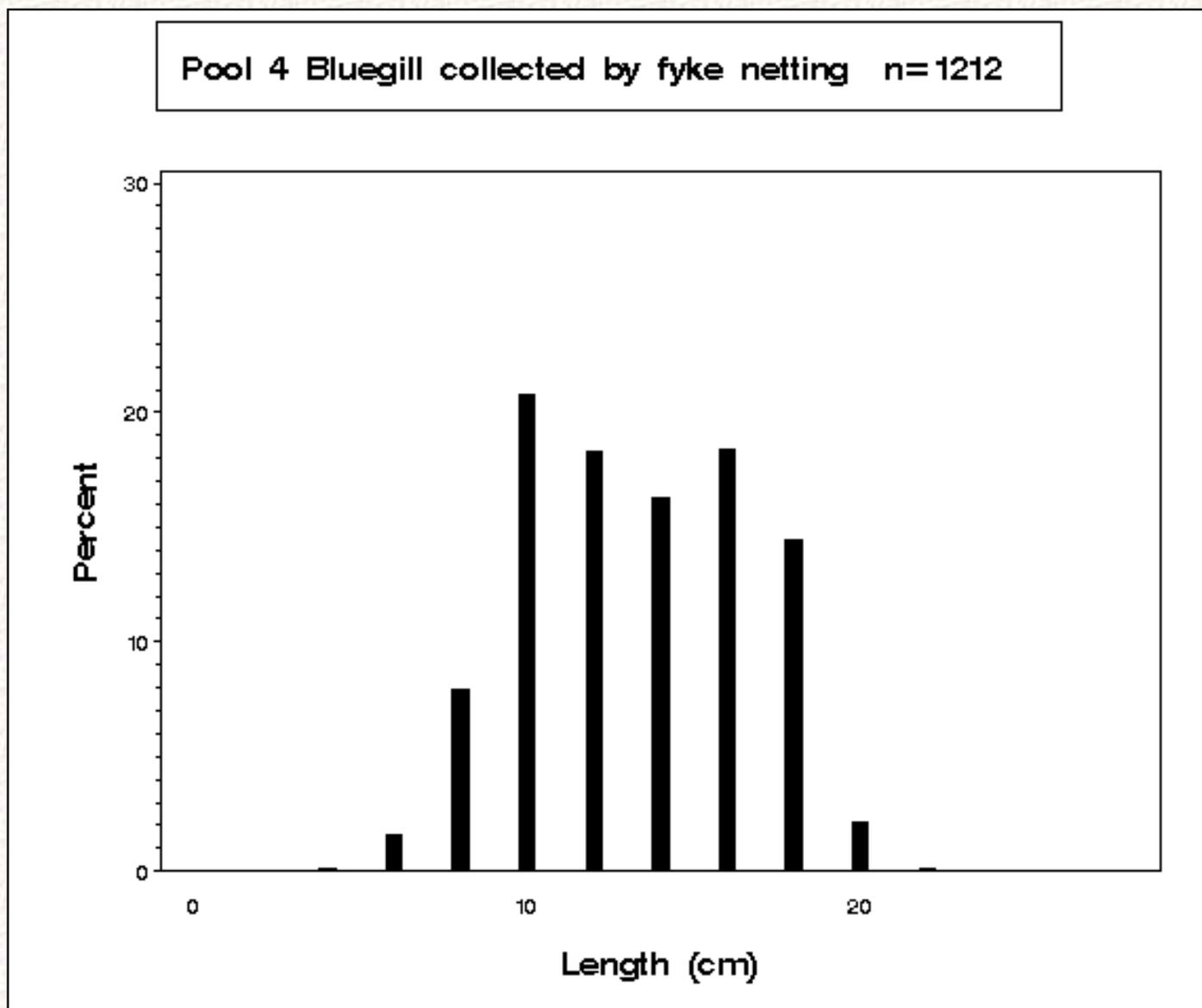
**Figure 11.1** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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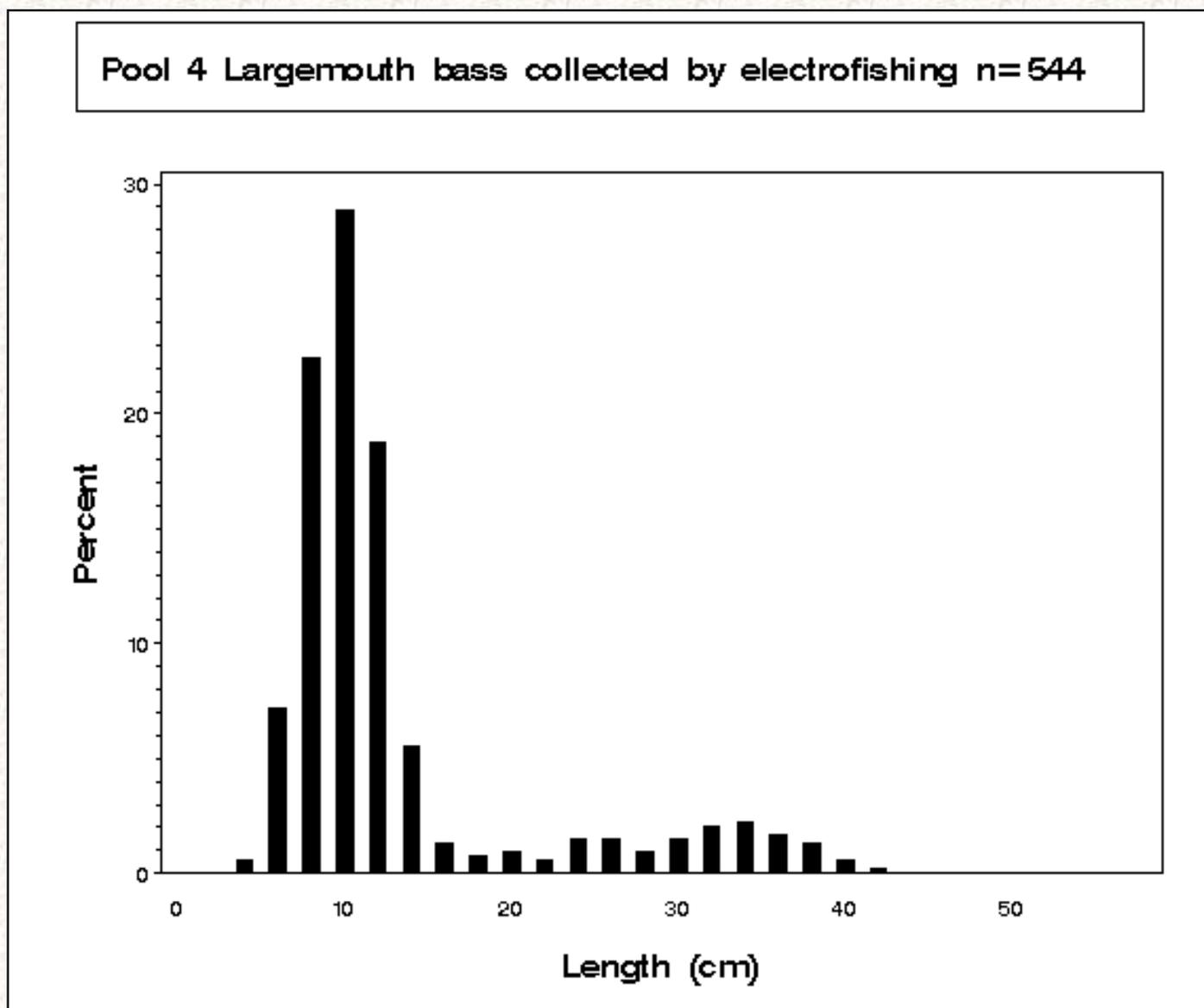
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**Figure 12.1** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



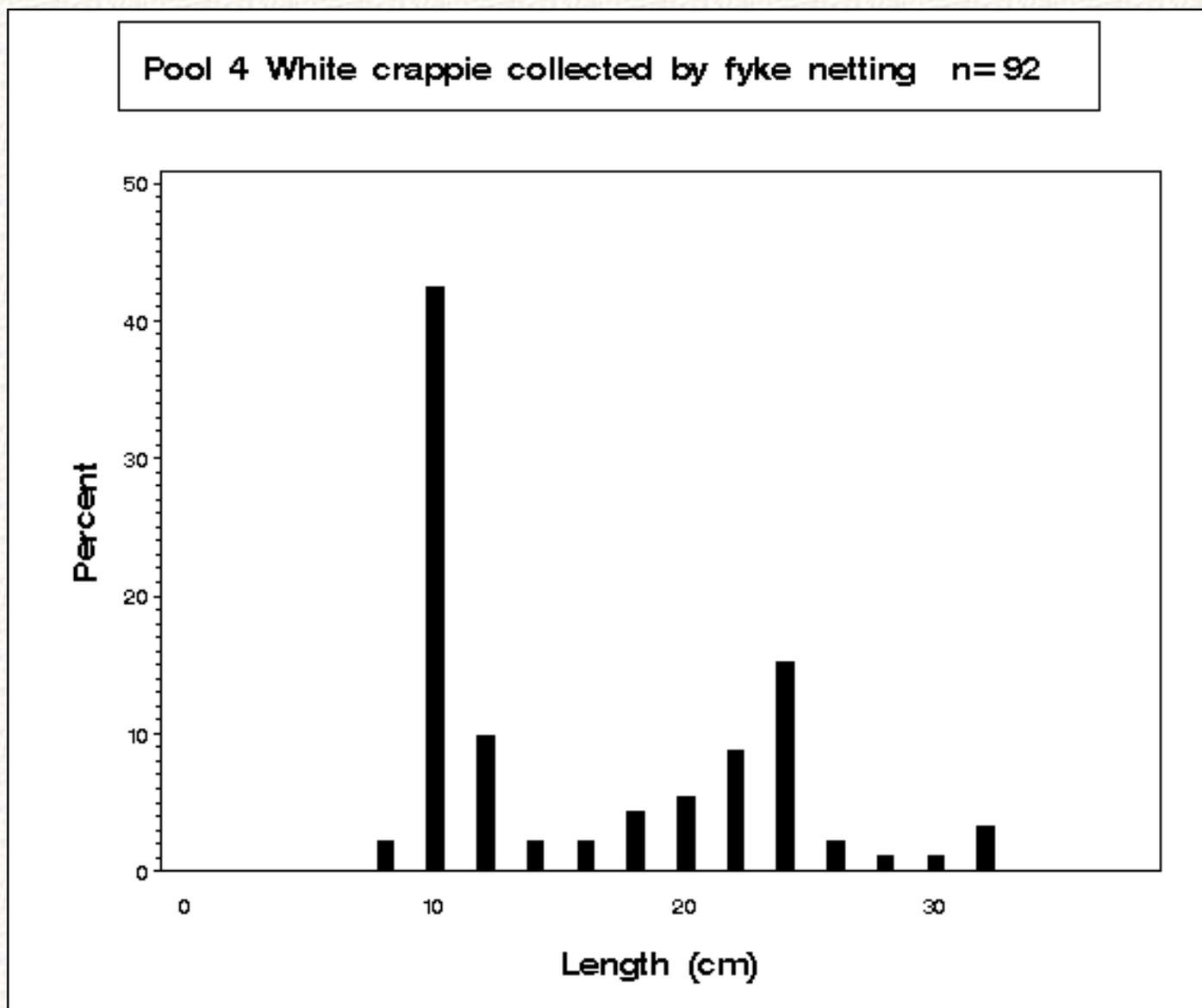
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**Figure 13.1** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



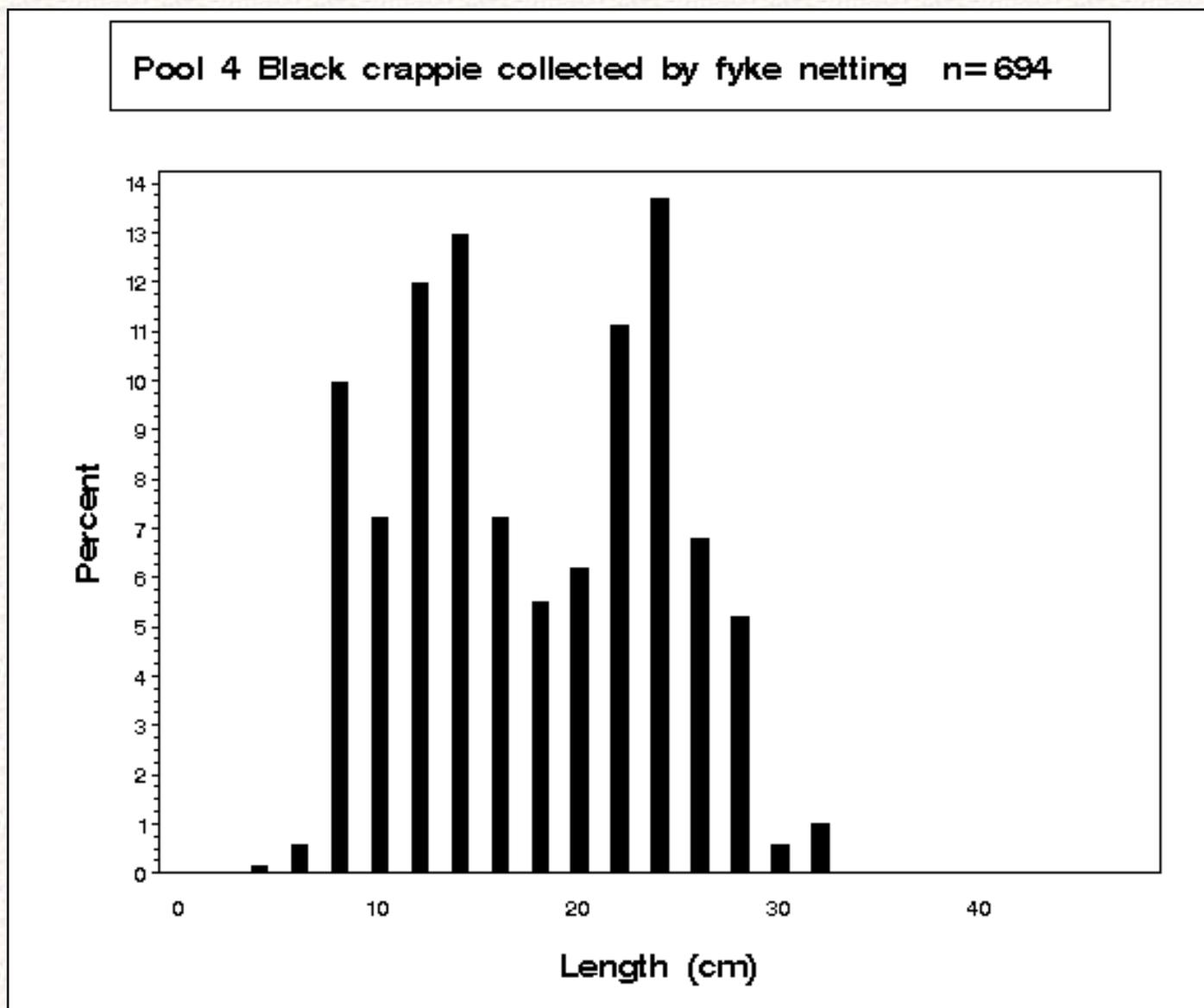
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**Figure 14.1** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



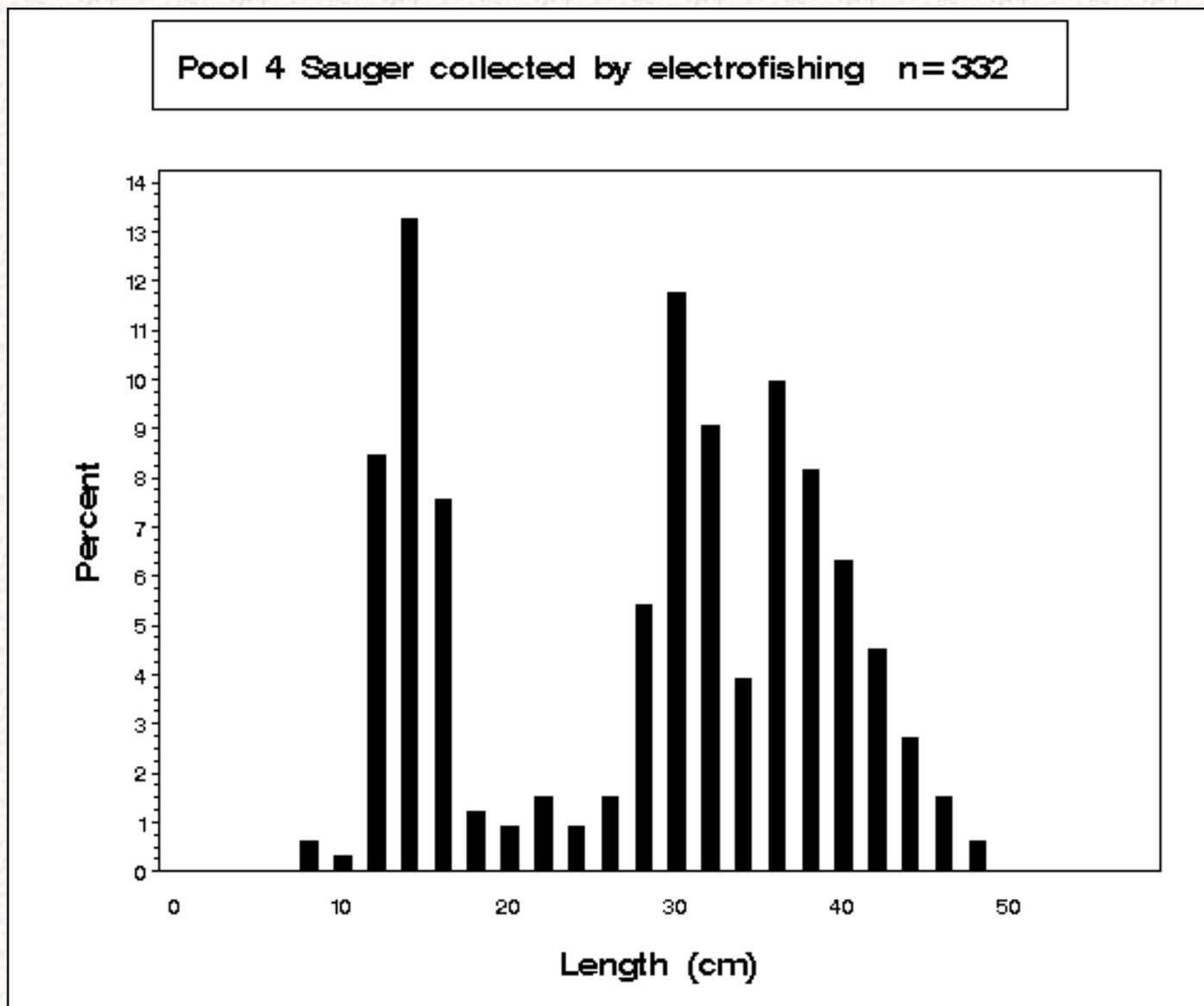
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**Figure 15.1** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



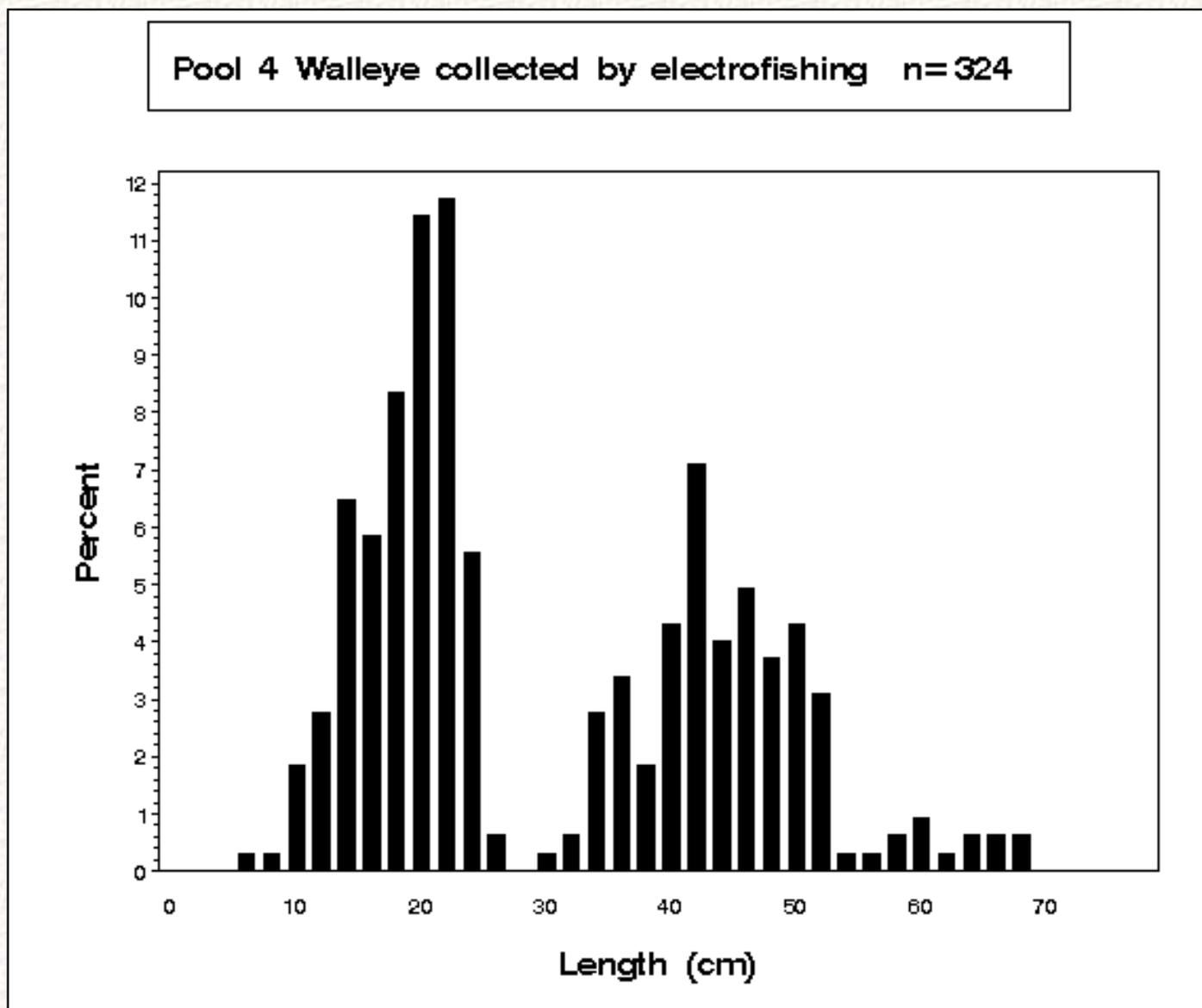
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**Figure 16.1** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



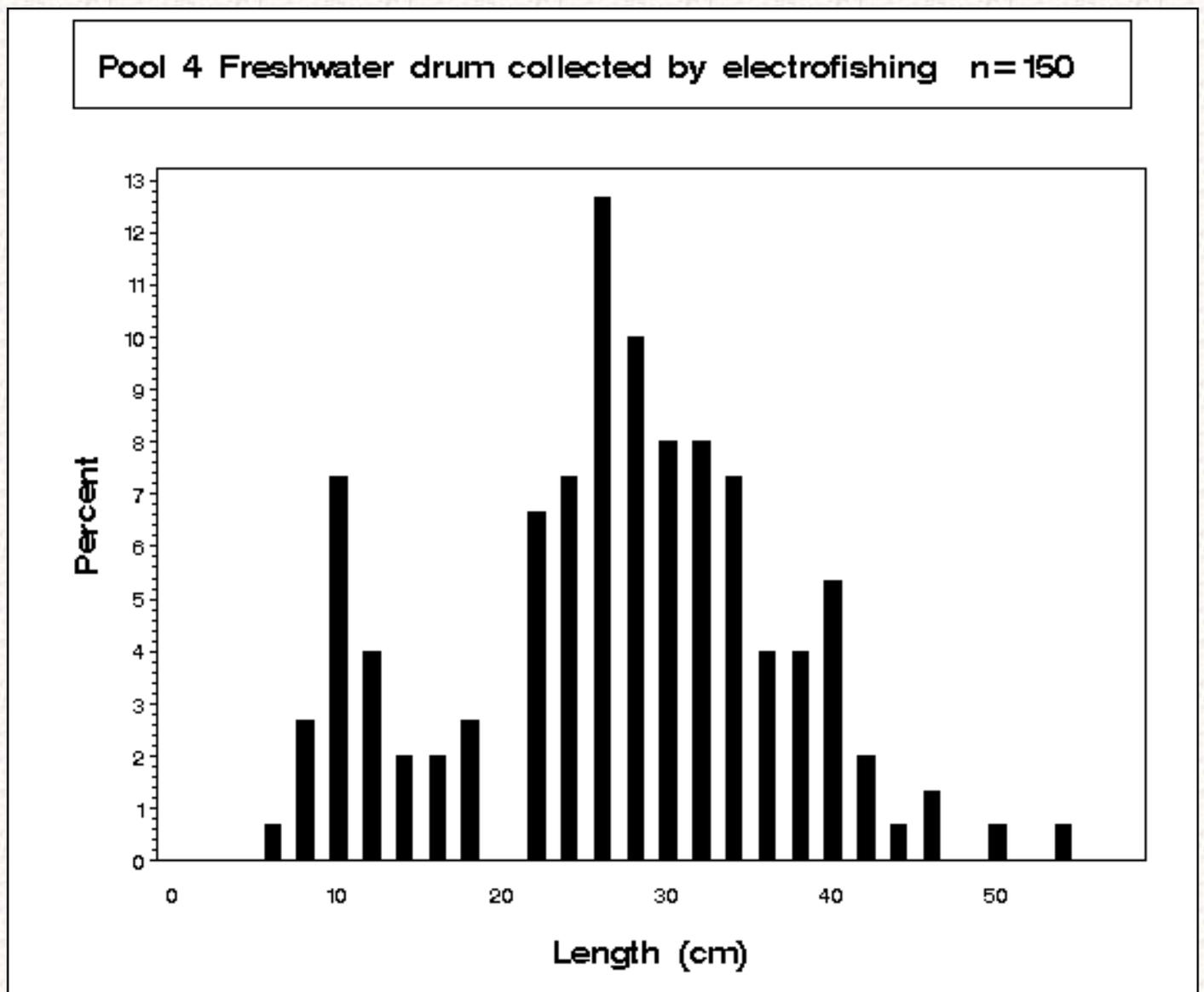

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**Figure 17.1** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



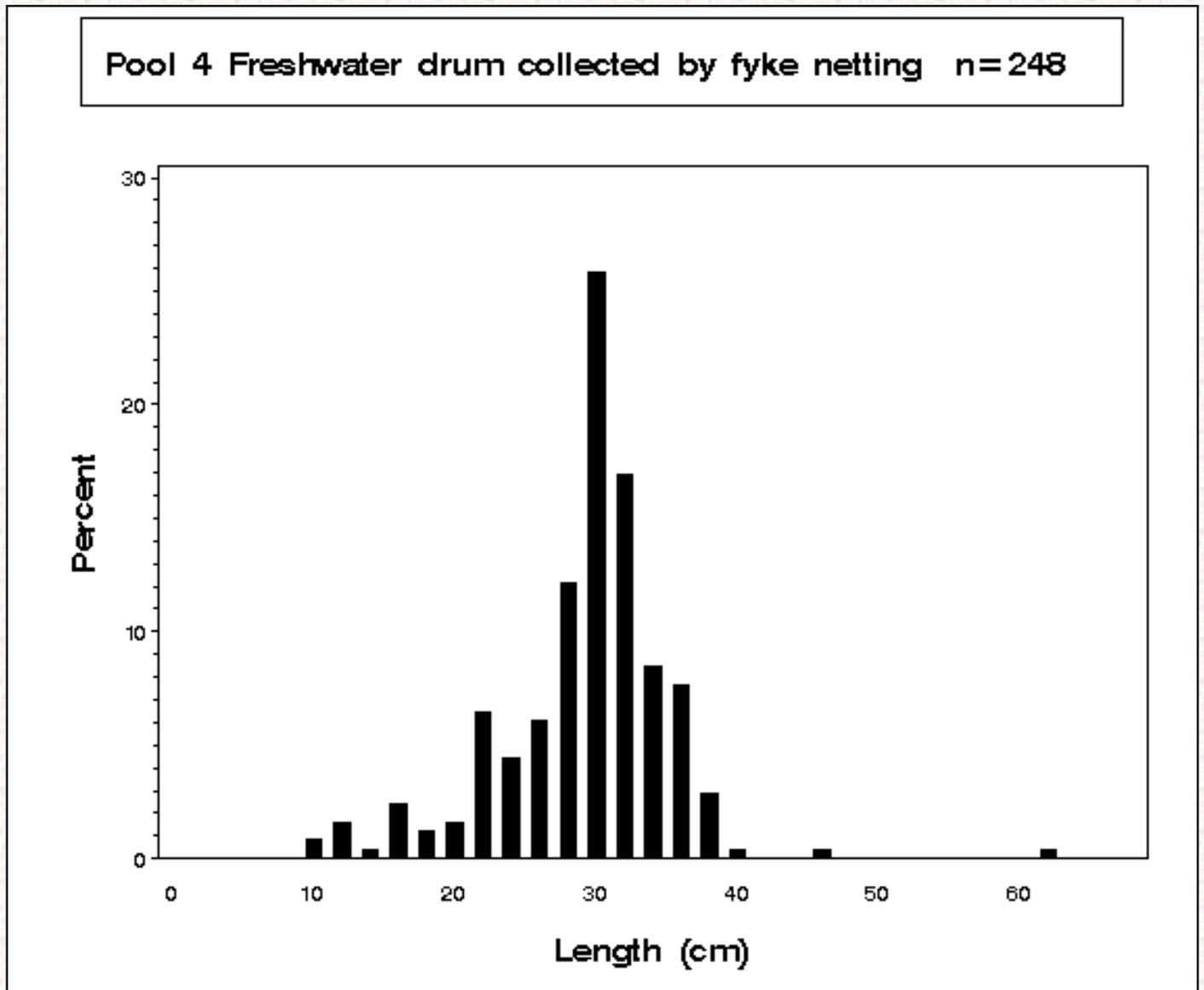
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**Figure 18.1** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Pool 4 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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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 2001. [Click here](#) to view this species' length distributions in all study reaches.



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## Pool 8, Upper Mississippi River 2001 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 2001. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 431 fish collections were conducted using 10 gear types ([Table 2.2](#)).
- 42 collections of the 160 that were eliminated in 2000 were restored in an effort to bolster catches of adult fish ([Table 2.2](#)). These included day electrofishing, fyke net, and hoop net collections.
- Despite near-record flooding in April and a pool-wide drawdown during much of the sampling season, water levels had only minor effects on sampling—one large hoop net was lost in high water during period 1 ([Table 2.2](#); [Figure 1.2](#)).
- Of the 431 collections, 378 were from randomly selected sites. Fifty-three collections were made at fixed sites.
- Backwater, main channel border, and side channel border strata received the most sampling effort ([Table 2.2](#)).
- 99,023 fish were collected representing 75 species and 3 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 pallid shiner was collected, a Wisconsin-listed endangered species ([Table](#)

[3.2](#)).

- One speckled chub, 44 river redhorse, and six blue suckers, 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 2001. 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	4	4	4				28
Fyke net	12					4				16
Large hoop net			4	4			4		1	13
Small hoop net			4	4			4		2	14
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>28</b>	<b>8</b>	<b>32</b>	<b>28</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>0</b>	<b>17</b>	<b>143</b>

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

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	TOTAL
Day electrofishing	8		8	4	4	4				28
Fyke net	12					4				16
Large hoop net			4	4			4		2	14
Small hoop net			4	4			4		2	14
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>28</b>	<b>8</b>	<b>32</b>	<b>28</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>0</b>	<b>18</b>	<b>144</b>

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

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	TOTAL
Day electrofishing	8		8	4	4	4				28
Fyke net	12					4				16
Large hoop net			4	4			4		2	14
Small hoop net			4	4			4		2	14
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>28</b>	<b>8</b>	<b>32</b>	<b>28</b>	<b>8</b>	<b>12</b>	<b>10</b>	<b>0</b>	<b>18</b>	<b>144</b>
<b>Total</b>	<b>84</b>	<b>24</b>	<b>96</b>	<b>84</b>	<b>24</b>	<b>36</b>	<b>30</b>	<b>0</b>	<b>53</b>	<b>431</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**



## Upper Midwest Environmental Sciences Center

### Reports and Publications

#### Fish Reports

#### 2001 Report

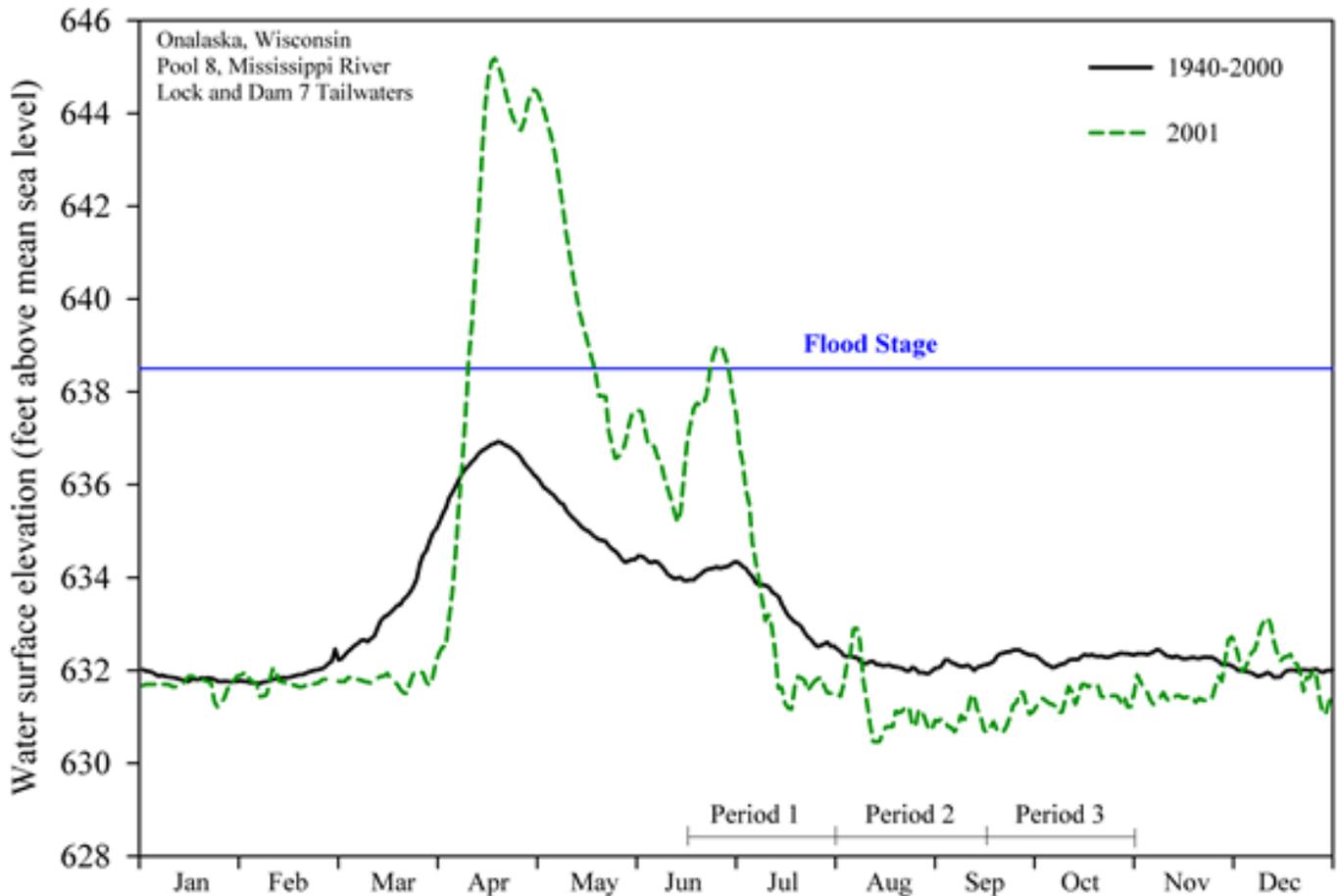


Figure 1.2. Daily water surface elevation from Lock and Dam 7 for Pool 8, Upper Mississippi River, during 2001 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski 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 2001. 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	T	TOTAL
1	Chestnut lamprey	<i>Ichthyomyzon castaneus</i>	1	-	-	-	-	-	-	-	-	-	-	1
2	Silver lamprey	<i>I. unicuspis</i>	5	6	-	-	-	-	-	-	-	-	1	12
3	American brook lamprey	<i>Lampetra appendix</i>	-	1	-	-	-	-	-	-	-	-	-	1
4	Unidentified lamprey	Petromyzontidae	-	2	-	-	-	-	-	-	-	-	-	2
5	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	-	-	10	10
6	Longnose gar	<i>Lepisosteus osseus</i>	21	28	46	26	8	-	3	-	3	-	-	135
7	Shortnose gar	<i>L. platostomus</i>	2	2	44	44	7	2	-	-	-	-	-	101
8	Bowfin	<i>Amia calva</i>	11	14	79	54	5	-	-	-	-	-	-	163
9	Mooneye	<i>Hiodon tergisus</i>	6	38	-	-	-	-	-	-	-	-	-	44
10	Gizzard shad	<i>Dorosoma cepedianum</i>	2516	1132	384	182	102	20	42	-	-	-	1	4379
11	Spotfin shiner	<i>Cyprinella spiloptera</i>	1342	2206	-	-	1933	27	4994	-	-	-	-	10502
12	Common carp	<i>Cyprinus carpio</i>	428	193	499	141	68	4	10	8	6	-	4	1361
13	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	-	-	-	-	-	-	-	-	-	1	1
14	Silver chub	<i>M. storeriana</i>	1	33	-	-	-	-	-	4	-	-	-	38
15	Golden shiner	<i>Notemigonus crysoleucas</i>	11	14	2	4	95	13	1	-	-	-	-	140
16	Pallid shiner	<i>Notropis amnis</i>	-	-	-	-	-	-	1	-	-	-	-	1
17	Emerald shiner	<i>N. atherinoides</i>	1458	4688	-	-	2305	47	3759	-	-	-	-	12257
18	River shiner	<i>N. blennius</i>	383	1219	-	-	1244	-	736	-	-	-	-	3582
19	Spottail shiner	<i>N. hudsonius</i>	21	67	-	-	48	20	75	-	-	-	-	231
20	Sand shiner	<i>N. stramineus</i>	-	2	-	-	1	-	1	-	-	-	-	4
21	Weed shiner	<i>N. texanus</i>	43	25	-	-	1619	24	221	-	-	-	-	1932

22	Mimic shiner	<i>N. volucellus</i>	834	4784	-	-	2642	84	244	-	-	-	-	8588
23	Unidentified shiner	<i>Notropis</i> sp.	-	-	-	-	-	-	776	-	-	-	-	776
24	Pugnose minnow	<i>Opsopoeodus emiliae</i>	141	41	-	-	450	592	44	-	-	-	-	1268
25	Bluntnose minnow	<i>Pimephales notatus</i>	-	-	-	-	1	-	1	-	-	-	-	2
26	Fathead minnow	<i>P. promelas</i>	-	1	-	-	3	-	1	-	-	-	-	5
27	Bullhead minnow	<i>P. vigilax</i>	1303	928	-	-	1389	2304	576	-	-	-	-	6500
28	River carpsucker	<i>Carpiodes carpio</i>	8	14	2	1	6	-	10	-	-	-	-	41
29	Quillback	<i>C. cyprinus</i>	8	65	2	-	1	-	4	-	-	-	-	80
30	Highfin carpsucker	<i>C. velifer</i>	-	2	-	-	-	-	-	-	-	-	-	2
31	Unidentified carpsucker	<i>Carpiodes</i> sp.	5	-	-	-	-	-	-	-	-	-	-	5
32	White sucker	<i>Catostomus commersoni</i>	-	4	-	1	-	-	-	-	-	-	1	6
33	Blue sucker	<i>Cycleptus elongatus</i>	-	5	-	-	-	-	-	-	1	-	-	6
34	Northern hog sucker	<i>Hypentelium nigricans</i>	2	-	-	-	-	-	-	-	-	-	-	2
35	Smallmouth buffalo	<i>Ictiobus bubalus</i>	3	9	2	1	-	-	-	2	29	-	-	46
36	Bigmouth buffalo	<i>I. cyprinellus</i>	-	2	2	-	1	-	1	-	-	-	-	6
37	Spotted sucker	<i>Minytrema melanops</i>	176	54	25	35	1	-	4	-	-	-	-	295
38	Silver redhorse	<i>Moxostoma anisurum</i>	151	120	90	87	4	8	4	6	14	-	1	485
39	River redhorse	<i>M. carinatum</i>	14	30	-	-	-	-	-	-	-	-	-	44
40	Golden redhorse	<i>M. erythrurum</i>	99	103	3	6	1	-	6	2	1	-	-	221
41	Shorthead redhorse	<i>M. macrolepidotum</i>	444	604	36	66	5	1	10	23	27	-	5	1221
42	Unidentified redhorse	<i>Moxostoma</i> sp.	-	-	-	-	11	-	-	-	-	-	-	11
43	Unidentified sucker	Unidentified Catostomidae	6	-	-	-	-	1	-	-	-	-	-	7
44	Black bullhead	<i>Ameiurus melas</i>	-	-	-	2	1	-	-	-	-	-	-	3
45	Yellow bullhead	<i>A. natalis</i>	-	-	-	5	-	-	-	-	-	-	-	5

46	Brown bullhead	<i>A. nebulosus</i>	-	-	1	-	-	-	-	-	-	-	-	1
47	Channel catfish	<i>Ictalurus punctatus</i>	12	230	2	5	11	-	-	64	153	-	51	528
48	Stonecat	<i>Noturus flavus</i>	-	-	-	-	-	-	-	3	-	-	-	3
49	Tadpole madtom	<i>N. gyrinus</i>	-	13	-	-	70	12	11	-	-	-	1	107
50	Flathead catfish	<i>Pylodictis olivaris</i>	11	24	15	25	-	-	-	2	7	-	2	86
51	Northern pike	<i>Esox lucius</i>	51	31	42	29	38	-	5	-	1	-	-	197
52	Central mudminnow	<i>Umbra limi</i>	-	-	-	-	4	-	-	-	-	-	-	4
53	Trout perch	<i>Percopsis omiscomaycus</i>	-	-	-	-	3	1	-	-	-	-	-	4
54	Burbot	<i>Lota lota</i>	-	1	-	-	-	-	-	-	-	-	-	1
55	Brook silverside	<i>Labidesthes sicculus</i>	130	426	-	-	21	-	279	-	-	-	-	856
56	White bass	<i>Morone chrysops</i>	96	2499	75	231	106	93	92	3	2	-	-	3197
57	Rock bass	<i>Ambloplites rupestris</i>	169	201	66	16	51	12	8	19	2	-	-	544
58	Green sunfish	<i>Lepomis cyanellus</i>	66	39	1	2	26	-	4	-	-	-	-	138
59	Pumpkinseed	<i>L. gibbosus</i>	36	7	32	8	51	-	2	-	1	-	-	137
60	Warmouth	<i>L. gulosus</i>	6	7	4	17	13	7	-	-	-	-	-	54
61	Orangespotted sunfish	<i>L. humilis</i>	36	5	3	1	8	2	17	-	-	-	-	72
62	Bluegill	<i>L. macrochirus</i>	2510	2446	2116	713	4720	419	543	25	30	-	3	13525
63	Green x pumpkinseed sunfish	<i>L. cyanellus x gibbosus</i>	3	6	1	1	1	-	-	-	-	-	-	12
64	Green x bluegill sunfish	<i>L. cyanellus x macrochirus</i>	2	2	5	-	-	-	-	-	-	-	-	9
65	Pumpkinseed x orangespotted sunfish	<i>L. gibbosus x humilis</i>	-	-	2	-	-	-	-	-	-	-	-	2
66	Unidentified Lepomis	<i>Lepomis sp.</i>	190	63	-	-	11578	3112	69	-	-	-	-	15012
67	Smallmouth bass	<i>Micropterus dolomieu</i>	204	449	-	2	9	-	3	-	1	-	-	668
68	Largemouth bass	<i>M. salmoides</i>	1728	1152	82	45	481	129	213	-	-	-	-	3830
69	White crappie	<i>Pomoxis annularis</i>	1	-	12	30	1	1	-	-	1	-	-	46

70	Black crappie	<i>P. nigromaculatus</i>	75	77	584	468	207	300	10	7	23	-	-	1751
71	Western sand darter	<i>Ammocrypta clara</i>	1	13	-	-	4	-	13	-	-	-	-	31
72	Mud darter	<i>Etheostoma asprigene</i>	23	24	-	-	80	5	18	-	-	-	-	150
73	Iowa darter	<i>E. exile</i>	-	1	-	-	3	-	1	-	-	-	-	5
74	Fantail darter	<i>E. flabellare</i>	1	-	-	-	-	-	-	-	-	-	-	1
75	Johnny darter	<i>E. nigrum</i>	46	61	-	-	365	56	75	-	-	-	-	603
76	Banded darter	<i>E. zonale</i>	-	1	-	-	-	-	-	-	-	-	-	1
77	Yellow perch	<i>Perca flavescens</i>	58	105	45	68	5	1	23	-	-	-	-	305
78	Logperch	<i>Percina caprodes</i>	29	78	-	-	11	-	4	-	-	-	-	122
79	Blackside darter	<i>P. maculata</i>	-	-	-	-	-	-	1	-	-	-	-	1
80	Slenderhead darter	<i>P. phoxocephala</i>	2	8	-	-	-	-	2	-	-	-	-	12
81	River darter	<i>P. shumardi</i>	-	4	-	-	1	-	2	-	-	-	-	7
82	Sauger	<i>Stizostedion canadense</i>	25	775	3	5	1	-	-	-	-	-	14	823
83	Walleye	<i>S. vitreum</i>	22	996	2	7	3	-	-	-	-	-	9	1039
84	Freshwater drum	<i>Aplodinotus grunniens</i>	73	271	44	34	13	3	31	8	32	-	108	617
			<b>15049</b>	<b>26451</b>	<b>4353</b>	<b>2362</b>	<b>29836</b>	<b>7300</b>	<b>12950</b>	<b>176</b>	<b>334</b>	<b>0</b>	<b>212</b>	<b>99023</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
<a href="#">12.2</a>	Mean catch-per-unit-effort for fish collected by seining
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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**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 2001. 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>	0.02					0.04
	(0.02)					(0.04)
<b>Silver lamprey</b>	0.08	0.04		0.08		0.13
	(0.05)	(0.04)		(0.08)		(0.13)
<b>Longnose gar</b>	0.33	0.38	0.08	0.50		0.21
	(0.12)	(0.15)	(0.08)	(0.42)		(0.12)
<b>Shortnose gar</b>	0.03	0.08				
	(0.02)	(0.06)				
<b>Bowfin</b>	0.16	0.38				0.08
	(0.05)	(0.13)				(0.06)
<b>Mooneye</b>	0.02				0.30	0.04
	(0.02)				(0.30)	(0.04)
<b>Gizzard shad</b>	36.58	53.92	18.17	45.58	2.18	18.17

	(14.76)	(38.30)	(7.43)	(25.88)	(2.08)	(9.82)
<b>Spotfin shiner</b>	18.72	8.71	17.58	24.75	3.08	24.33
	(2.71)	(3.83)	(8.10)	(5.86)	(1.51)	(5.09)
<b>Common carp</b>	3.93	2.42	19.17	2.75	0.55	4.04
	(0.59)	(0.60)	(6.32)	(0.86)	(0.15)	(1.08)
<b>Silver chub</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Golden shiner</b>	0.15	0.38	0.08			0.04
	(0.06)	(0.17)	(0.08)			(0.04)
<b>Emerald shiner</b>	17.74	5.58	25.33	35.25	12.57	17.13
	(4.38)	(2.21)	(19.03)	(15.40)	(6.70)	(6.13)
<b>River shiner</b>	4.19	0.42	15.92	12.00	0.42	1.33
	(1.09)	(0.26)	(9.88)	(4.09)	(0.20)	(0.73)
<b>Spottail shiner</b>	0.28	0.25	0.33			0.46
	(0.11)	(0.21)	(0.22)			(0.23)
<b>Weed shiner</b>	0.65	0.83		0.17		0.88
	(0.17)	(0.34)		(0.17)		(0.31)
<b>Mimic shiner</b>	11.62	21.54	5.00	7.83	1.51	5.92
	(5.87)	(16.56)	(4.64)	(3.42)	(0.89)	(3.92)
<b>Pugnose minnow</b>	1.82	4.21	1.83	0.42		0.54
	(0.59)	(1.69)	(0.99)	(0.42)		(0.23)
<b>Bullhead minnow</b>	16.76	17.71	22.83	4.33	0.27	22.75
	(4.31)	(5.79)	(16.86)	(2.39)	(0.16)	(9.82)

<b>River carpsucker</b>	0.09	0.13	0.25	0.08		0.04
	(0.04)	(0.09)	(0.13)	(0.08)		(0.04)
<b>Quillback</b>	0.11	0.04	0.17	0.17		0.13
	(0.06)	(0.04)	(0.17)	(0.11)		(0.13)
<b>Unidentified carpsucker</b>	0.02		0.42			
	(0.02)		(0.42)			
<b>Northern hog sucker</b>	0.00				0.07	
	(0.00)				(0.05)	
<b>Smallmouth buffalo</b>	0.02	0.04	0.17			
	(0.02)	(0.04)	(0.11)			
<b>Spotted sucker</b>	2.48	6.33	0.42	0.08		0.75
	(0.76)	(2.22)	(0.23)	(0.08)		(0.29)
<b>Silver redhorse</b>	1.00	0.83	0.50	1.25	4.28	1.04
	(0.21)	(0.18)	(0.26)	(0.74)	(1.17)	(0.27)
<b>River redhorse</b>	0.06	0.04			0.60	0.13
	(0.05)	(0.04)			(0.25)	(0.13)
<b>Golden redhorse</b>	1.11	0.79	0.17	1.83	1.18	1.08
	(0.26)	(0.23)	(0.11)	(0.88)	(0.62)	(0.36)
<b>Shorthead redhorse</b>	2.19	1.88	1.58	2.58	12.76	2.25
	(0.35)	(0.56)	(0.43)	(0.97)	(2.63)	(0.53)
<b>Unidentified sucker</b>	0.02		0.50			
	(0.02)		(0.50)			
<b>Channel catfish</b>	0.11	0.21	0.17	0.08	0.13	0.04

	(0.04)	(0.08)	(0.11)	(0.08)	(0.07)	(0.04)
<b>Flathead catfish</b>	0.15	0.25		0.08	0.06	0.13
	(0.06)	(0.14)		(0.08)	(0.06)	(0.07)
<b>Northern pike</b>	0.71	1.08	0.33	0.17	0.04	0.75
	(0.18)	(0.39)	(0.19)	(0.17)	(0.04)	(0.33)
<b>Brook silverside</b>	1.82	2.04	0.67	1.92	0.75	1.71
	(0.45)	(0.91)	(0.33)	(1.06)	(0.67)	(0.59)
<b>White bass</b>	1.07	0.63	2.67	2.25	0.53	0.54
	(0.26)	(0.26)	(1.21)	(0.97)	(0.44)	(0.18)
<b>Rock bass</b>	2.13	3.17	2.75	0.50	0.15	2.13
	(0.57)	(1.46)	(1.09)	(0.23)	(0.10)	(0.74)
<b>Green sunfish</b>	0.82	2.13	0.58	0.17	0.31	0.08
	(0.49)	(1.44)	(0.58)	(0.11)	(0.20)	(0.06)
<b>Pumpkinseed</b>	0.41	0.88	0.92	0.08		0.13
	(0.22)	(0.63)	(0.74)	(0.08)		(0.07)
<b>Warmouth</b>	0.08	0.17	0.08			0.04
	(0.03)	(0.08)	(0.08)			(0.04)
<b>Orangespotted sunfish</b>	0.41	0.88	0.92			0.17
	(0.27)	(0.75)	(0.83)			(0.17)
<b>Bluegill</b>	32.40	58.54	32.50	7.50	3.66	24.13
	(5.06)	(13.03)	(10.09)	(2.25)	(1.63)	(6.21)
<b>Green x pumpkinseed sunfish</b>	0.04		0.08			0.08
	(0.03)		(0.08)			(0.08)

<b>Green x bluegill sunfish</b>	0.03	0.08				
	(0.02)	(0.06)				
<b>Unidentified Lepomis</b>	2.82	4.21			0.03	3.67
	(1.16)	(2.05)			(0.03)	(2.47)
<b>Smallmouth bass</b>	1.81	0.63	3.83	2.92	3.58	1.92
	(0.34)	(0.24)	(1.71)	(0.93)	(0.93)	(0.61)
<b>Largemouth bass</b>	23.63	36.88	13.08	5.50	2.70	24.21
	(2.93)	(5.36)	(5.47)	(1.33)	(1.16)	(5.98)
<b>White crappie</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Black crappie</b>	1.07	2.42	0.08	0.08	0.03	0.58
	(0.40)	(1.15)	(0.08)	(0.08)	(0.03)	(0.25)
<b>Western sand darter</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Mud darter</b>	0.34	0.38	0.08	0.17		0.46
	(0.12)	(0.13)	(0.08)	(0.11)		(0.29)
<b>Fantail darter</b>	0.00				0.04	
	(0.00)				(0.04)	
<b>Johnny darter</b>	0.60	0.50	0.83	0.17		0.92
	(0.20)	(0.27)	(0.49)	(0.17)		(0.44)
<b>Yellow perch</b>	0.75	1.25	0.83			0.75
	(0.28)	(0.44)	(0.37)			(0.62)
<b>Logperch</b>	0.25	0.38		0.33	0.64	0.13

	(0.11)	(0.22)		(0.33)	(0.43)	(0.07)
<b>Slenderhead darter</b>	0.02				0.04	0.04
	(0.02)				(0.04)	(0.04)
<b>Sauger</b>	0.37	0.58	0.08	0.17		0.33
	(0.10)	(0.22)	(0.08)	(0.11)		(0.18)
<b>Walleye</b>	0.13	0.33	0.33		0.50	
	(0.05)	(0.14)	(0.14)		(0.21)	
<b>Freshwater drum</b>	0.63	0.75	3.00	0.42	0.29	0.33
	(0.16)	(0.35)	(1.31)	(0.26)	(0.14)	(0.13)

**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/2001/pool\\_8/tb3\\_wi0003.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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>Silver lamprey</b>	0.03	0.08	0.10	
	(0.03)	(0.08)	(0.10)	
<b>American brook lamprey</b>	0.03	0.08		
	(0.03)	(0.08)		
<b>Unidentified lamprey</b>	0.00		0.07	
	(0.00)		(0.05)	
<b>Longnose gar</b>	0.81	0.92	0.04	0.75
	(0.19)	(0.29)	(0.04)	(0.25)
<b>Shortnose gar</b>	0.03	0.08	0.04	
	(0.03)	(0.08)	(0.04)	
<b>Bowfin</b>	0.03	0.08		
	(0.03)	(0.08)		
<b>Mooneye</b>	0.12	0.17	0.95	0.08

	(0.08)	(0.17)	(0.32)	(0.08)
<b>Gizzard shad</b>	18.61	23.75	5.99	15.58
	(6.36)	(12.18)	(1.87)	(7.16)
<b>Spotfin shiner</b>	40.36	8.58	1.19	59.83
	(27.97)	(2.76)	(0.93)	(45.10)
<b>Common carp</b>	4.67	7.33	1.15	3.08
	(1.89)	(4.49)	(0.44)	(1.38)
<b>Silver chub</b>	0.99	2.50	0.04	0.08
	(0.94)	(2.50)	(0.04)	(0.08)
<b>Emerald shiner</b>	146.12	205.75	10.16	110.92
	(52.70)	(111.88)	(4.98)	(51.57)
<b>River shiner</b>	5.70	6.50	0.20	5.25
	(2.95)	(3.74)	(0.12)	(4.19)
<b>Spottail shiner</b>	1.56	1.25	0.03	1.75
	(0.64)	(0.82)	(0.03)	(0.91)
<b>Weed shiner</b>	0.72	0.67		0.75
	(0.22)	(0.28)		(0.30)
<b>Mimic shiner</b>	112.80	191.17	4.37	66.08
	(39.07)	(94.49)	(1.77)	(26.71)
<b>Pugnose minnow</b>	1.73	0.33	0.07	2.58
	(0.49)	(0.26)	(0.07)	(0.77)
<b>Fathead minnow</b>	0.03	0.08		
	(0.03)	(0.08)		

<b>Bullhead minnow</b>	26.56	11.75	3.07	35.67
	(5.42)	(2.29)	(2.47)	(8.64)
<b>River carpsucker</b>	0.18	0.33	0.09	0.08
	(0.11)	(0.26)	(0.06)	(0.08)
<b>Quillback</b>	0.17	0.17	0.11	0.17
	(0.11)	(0.11)	(0.11)	(0.17)
<b>White sucker</b>	0.05			0.08
	(0.05)			(0.08)
<b>Blue sucker</b>	0.00		0.23	
	(0.00)		(0.20)	
<b>Smallmouth buffalo</b>	0.28	0.75		
	(0.22)	(0.59)		
<b>Bigmouth buffalo</b>	0.03	0.08		
	(0.03)	(0.08)		
<b>Spotted sucker</b>	0.78			1.25
	(0.40)			(0.65)
<b>Silver redhorse</b>	2.69	2.75	1.57	2.67
	(0.56)	(0.98)	(0.45)	(0.69)
<b>River redhorse</b>	0.07	0.17	1.15	
	(0.04)	(0.11)	(0.32)	
<b>Golden redhorse</b>	1.55	1.08	1.30	1.83
	(0.82)	(0.34)	(0.58)	(1.31)
<b>Shorthead redhorse</b>	6.25	6.75	9.79	5.92

	(1.67)	(2.10)	(2.42)	(2.38)
<b>Channel catfish</b>	1.74	3.25	0.76	0.83
	(0.66)	(1.61)	(0.43)	(0.42)
<b>Tadpole madtom</b>	0.24	0.08	0.10	0.33
	(0.12)	(0.08)	(0.10)	(0.19)
<b>Flathead catfish</b>	0.37	0.58	0.17	0.25
	(0.14)	(0.31)	(0.08)	(0.13)
<b>Northern pike</b>	0.27	0.17	0.10	0.33
	(0.12)	(0.11)	(0.10)	(0.19)
<b>Burbot</b>	0.00		0.04	
	(0.00)		(0.04)	
<b>Brook silverside</b>	7.49	6.58	1.15	8.08
	(1.86)	(2.36)	(1.15)	(2.64)
<b>White bass</b>	19.36	34.17	3.11	10.50
	(4.92)	(11.14)	(1.46)	(4.23)
<b>Rock bass</b>	4.31	3.33	1.00	4.92
	(0.89)	(0.96)	(0.42)	(1.32)
<b>Green sunfish</b>	0.22	0.58	0.21	
	(0.09)	(0.23)	(0.21)	
<b>Warmouth</b>	0.00		0.03	
	(0.00)		(0.03)	
<b>Orangespotted sunfish</b>	0.03	0.08		
	(0.03)	(0.08)		

<b>Bluegill</b>	32.09	43.08	8.57	25.58
	(6.66)	(10.94)	(7.10)	(8.47)
<b>Green x pumpkinseed sunfish</b>	0.03	0.08		
	(0.03)	(0.08)		
<b>Unidentified Lepomis</b>	2.26	2.17		2.33
	(0.85)	(0.99)		(1.23)
<b>Smallmouth bass</b>	4.96	11.08	6.57	1.25
	(1.23)	(3.21)	(2.04)	(0.45)
<b>Largemouth bass</b>	16.41	9.67	2.33	20.58
	(3.99)	(2.99)	(2.29)	(6.18)
<b>Black crappie</b>	2.05	1.75	0.38	2.25
	(0.83)	(0.55)	(0.22)	(1.30)
<b>Western sand darter</b>	0.10			0.17
	(0.10)			(0.17)
<b>Mud darter</b>	0.28	0.33	0.10	0.25
	(0.13)	(0.26)	(0.10)	(0.13)
<b>Johnny darter</b>	1.37	1.58	0.10	1.25
	(0.53)	(0.74)	(0.10)	(0.73)
<b>Banded darter</b>	0.03	0.08		
	(0.03)	(0.08)		
<b>Yellow perch</b>	0.40	0.25	0.10	0.50
	(0.16)	(0.18)	(0.10)	(0.23)
<b>Logperch</b>	0.85	1.17	0.34	0.67

	(0.33)	(0.60)	(0.16)	(0.40)
<b>Slenderhead darter</b>	0.03	0.08	0.17	
	(0.03)	(0.08)	(0.12)	
<b>Sauger</b>	3.27	5.67	1.44	1.83
	(1.43)	(3.76)	(0.44)	(0.41)
<b>Walleye</b>	5.89	7.67	3.27	4.83
	(1.87)	(3.56)	(1.36)	(2.11)
<b>Freshwater drum</b>	2.71	3.17	5.75	2.42
	(0.77)	(1.48)	(2.80)	(0.87)

**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/2001/pool\\_8/tb3\\_wi0004.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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>Longnose gar</b>	1.03	1.17	0.08
	(0.39)	(0.45)	(0.08)
<b>Shortnose gar</b>	0.84	0.78	1.26
	(0.20)	(0.19)	(0.87)
<b>Bowfin</b>	1.59	1.61	1.47
	(0.41)	(0.46)	(0.77)
<b>Gizzard shad</b>	4.48	0.81	29.67
	(3.44)	(0.35)	(27.29)
<b>Common carp</b>	5.32	0.76	36.61
	(2.72)	(0.15)	(21.62)
<b>Golden shiner</b>	0.04	0.03	0.09
	(0.03)	(0.03)	(0.09)
<b>River carpsucker</b>	0.05	0.05	

	(0.03)	(0.04)	
<b>Quillback</b>	0.05	0.05	
	(0.03)	(0.04)	
<b>Smallmouth buffalo</b>	0.05	0.06	
	(0.03)	(0.04)	
<b>Bigmouth buffalo</b>	0.05	0.05	
	(0.05)	(0.05)	
<b>Spotted sucker</b>	0.52	0.54	0.45
	(0.14)	(0.15)	(0.37)
<b>Silver redhorse</b>	1.82	1.85	1.64
	(0.36)	(0.39)	(0.78)
<b>Golden redhorse</b>	0.05	0.03	0.18
	(0.03)	(0.03)	(0.12)
<b>Shorthead redhorse</b>	0.53	0.31	2.02
	(0.15)	(0.11)	(0.90)
<b>Brown bullhead</b>	0.02	0.03	
	(0.02)	(0.03)	
<b>Channel catfish</b>	0.04	0.05	
	(0.04)	(0.05)	
<b>Flathead catfish</b>	0.32	0.37	
	(0.17)	(0.19)	
<b>Northern pike</b>	0.86	0.89	0.64
	(0.30)	(0.35)	(0.22)

<b>White bass</b>	1.43	1.34	2.02
	(0.50)	(0.56)	(0.83)
<b>Rock bass</b>	1.17	1.07	1.87
	(0.47)	(0.53)	(0.91)
<b>Green sunfish</b>	0.02	0.03	
	(0.02)	(0.03)	
<b>Pumpkinseed</b>	0.61	0.58	0.78
	(0.23)	(0.26)	(0.30)
<b>Warmouth</b>	0.09	0.10	
	(0.09)	(0.10)	
<b>Orangespotted sunfish</b>	0.07	0.08	
	(0.04)	(0.04)	
<b>Bluegill</b>	42.36	43.61	33.74
	(14.39)	(16.50)	(10.07)
<b>Green x pumpkinseed sunfish</b>	0.02	0.03	
	(0.02)	(0.03)	
<b>Green x bluegill sunfish</b>	0.09	0.08	0.15
	(0.04)	(0.04)	(0.10)
<b>Pumpkinseed x orangespotted sunfish</b>	0.04	0.05	
	(0.04)	(0.05)	
<b>Largemouth bass</b>	1.29	0.97	3.47
	(0.51)	(0.48)	(2.36)
<b>White crappie</b>	0.28	0.33	

	(0.20)	(0.23)	
<b>Black crappie</b>	12.49	13.27	7.13
	(3.32)	(3.81)	(2.30)
<b>Yellow perch</b>	0.95	1.00	0.58
	(0.30)	(0.34)	(0.23)
<b>Sauger</b>	0.07	0.08	
	(0.04)	(0.05)	
<b>Walleye</b>	0.03	0.02	0.08
	(0.02)	(0.02)	(0.08)
<b>Freshwater drum</b>	0.71	0.48	2.33
	(0.23)	(0.13)	(1.64)

**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/2001/pool\\_8/tb3\\_wi0005.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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	IMPO
Longnose gar	0.38	0.77	0.33
	(0.20)	(0.65)	(0.21)
Shortnose gar	0.19	1.52	
	(0.11)	(0.91)	
Bowfin	0.25	2.02	
	(0.08)	(0.62)	
Gizzard shad	10.54	1.38	11.83
	(5.42)	(0.56)	(6.18)
Common carp	7.54	1.31	8.42
	(4.58)	(0.47)	(5.23)
Golden shiner	0.02	0.16	
	(0.01)	(0.09)	
River carpsucker	0.00	0.04	

	(0.00)	(0.04)	
<b>White sucker</b>	0.00	0.04	
	(0.00)	(0.04)	
<b>Smallmouth buffalo</b>	0.01	0.04	
	(0.01)	(0.04)	
<b>Spotted sucker</b>	0.24	1.30	0.09
	(0.13)	(0.80)	(0.09)
<b>Silver redhorse</b>	1.96	2.38	1.90
	(0.61)	(0.74)	(0.69)
<b>Golden redhorse</b>	0.10	0.19	0.09
	(0.08)	(0.08)	(0.09)
<b>Shorthead redhorse</b>	1.32	1.98	1.22
	(0.36)	(0.62)	(0.40)
<b>Black bullhead</b>	0.01	0.08	
	(0.01)	(0.05)	
<b>Yellow bullhead</b>	0.02	0.20	
	(0.02)	(0.20)	
<b>Channel catfish</b>	0.21	0.08	0.23
	(0.13)	(0.05)	(0.15)
<b>Flathead catfish</b>	0.11	0.93	
	(0.06)	(0.45)	
<b>Northern pike</b>	0.20	1.00	0.09
	(0.09)	(0.40)	(0.09)

<b>White bass</b>	8.28	4.39	8.83
	(4.30)	(3.54)	(4.88)
<b>Rock bass</b>	0.08	0.62	
	(0.04)	(0.36)	
<b>Green sunfish</b>	0.01	0.07	
	(0.01)	(0.07)	
<b>Pumpkinseed</b>	0.04	0.30	
	(0.01)	(0.10)	
<b>Warmouth</b>	0.08	0.62	
	(0.05)	(0.37)	
<b>Orangespotted sunfish</b>	0.00	0.04	
	(0.00)	(0.04)	
<b>Bluegill</b>	8.78	24.81	6.52
	(5.51)	(5.83)	(6.24)
<b>Green x pumpkinseed sunfish</b>	0.00	0.04	
	(0.00)	(0.04)	
<b>Smallmouth bass</b>	0.13		0.14
	(0.13)		(0.14)
<b>Largemouth bass</b>	0.35	1.69	0.16
	(0.22)	(1.37)	(0.16)
<b>White crappie</b>	0.13	1.08	
	(0.13)	(1.04)	
<b>Black crappie</b>	3.48	16.73	1.62

	(1.51)	(6.93)	(1.43)
<b>Yellow perch</b>	0.75	2.45	0.51
	(0.32)	(1.24)	(0.32)
<b>Sauger</b>	0.21	0.08	0.23
	(0.13)	(0.05)	(0.15)
<b>Walleye</b>	0.03	0.27	
	(0.02)	(0.16)	
<b>Freshwater drum</b>	0.80	0.87	0.79
	(0.13)	(0.20)	(0.14)

**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/2001/pool\\_8/tb3\\_wi0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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
<b>Longnose gar</b>	0.08	0.22			
	(0.06)	(0.16)			
<b>Shortnose gar</b>	0.09	0.19			0.08
	(0.04)	(0.09)			(0.08)
<b>Bowfin</b>	0.05	0.11	0.15		
	(0.02)	(0.06)	(0.10)		
<b>Gizzard shad</b>	1.44	0.79	0.34	4.07	0.57
	(0.86)	(0.27)	(0.19)	(3.70)	(0.29)
<b>Spotfin shiner</b>	11.82	1.03	135.29	5.32	9.29
	(4.88)	(0.81)	(87.42)	(4.72)	(5.37)
<b>Common carp</b>	0.51	0.04	4.47	0.40	0.49
	(0.15)	(0.04)	(1.58)	(0.33)	(0.26)
<b>Golden shiner</b>	1.21	3.45			0.08

	(0.59)	(1.73)			(0.08)
<b>Emerald shiner</b>	12.26	2.40	175.49	0.49	6.87
	(6.62)	(1.06)	(129.88)	(0.49)	(4.52)
<b>River shiner</b>	5.30	0.76	87.70	2.83	0.08
	(3.38)	(0.53)	(67.64)	(2.53)	(0.08)
<b>Spottail shiner</b>	0.72	1.28	0.07		0.73
	(0.32)	(0.83)	(0.07)		(0.40)
<b>Weed shiner</b>	20.79	55.04	0.25	0.15	5.17
	(15.76)	(46.17)	(0.18)	(0.10)	(3.44)
<b>Mimic shiner</b>	5.47	3.47	52.96	1.12	3.70
	(2.20)	(3.11)	(35.80)	(0.70)	(2.01)
<b>Pugnose minnow</b>	6.20	13.52	0.92	0.54	3.72
	(3.24)	(9.28)	(0.41)	(0.39)	(1.95)
<b>Fathead minnow</b>	0.04	0.11			
	(0.04)	(0.11)			
<b>Bullhead minnow</b>	16.14	18.87	55.29	1.77	17.26
	(4.83)	(10.32)	(45.36)	(0.58)	(6.46)
<b>River carpsucker</b>	0.02		0.50		
	(0.02)		(0.41)		
<b>Quillback</b>	0.00		0.08		
	(0.00)		(0.08)		
<b>Bigmouth buffalo</b>	0.00		0.07		
	(0.00)		(0.07)		

<b>Silver redhorse</b>	0.09				0.24
	(0.05)				(0.13)
<b>Golden redhorse</b>	0.02			0.08	
	(0.02)			(0.08)	
<b>Shorthead redhorse</b>	0.11	0.04	0.09		0.25
	(0.07)	(0.04)	(0.09)		(0.18)
<b>Unidentified redhorse</b>	0.04		0.77		
	(0.04)		(0.77)		
<b>Black bullhead</b>	0.02			0.08	
	(0.02)			(0.08)	
<b>Channel catfish</b>	0.14		0.17	0.56	
	(0.11)		(0.17)	(0.48)	
<b>Tadpole madtom</b>	0.63	1.34	1.87	0.24	0.08
	(0.18)	(0.50)	(0.82)	(0.17)	(0.08)
<b>Northern pike</b>	0.38	0.67	0.09		0.38
	(0.18)	(0.31)	(0.09)		(0.38)
<b>Central mudminnow</b>	0.05	0.15			
	(0.04)	(0.12)			
<b>Trout perch</b>	0.06			0.15	0.08
	(0.05)			(0.15)	(0.08)
<b>Brook silverside</b>	0.23	0.29	0.83		0.25
	(0.12)	(0.15)	(0.83)		(0.25)
<b>White bass</b>	1.02	1.27	0.26	1.87	0.40

	(0.37)	(0.87)	(0.18)	(0.92)	(0.18)
<b>Rock bass</b>	0.88	0.88	0.50	0.79	0.98
	(0.31)	(0.30)	(0.28)	(0.35)	(0.74)
<b>Green sunfish</b>	0.35	0.25	0.64	0.08	0.57
	(0.19)	(0.12)	(0.26)	(0.08)	(0.49)
<b>Pumpkinseed</b>	1.22	0.72	0.15		2.54
	(0.79)	(0.49)	(0.10)		(2.05)
<b>Warmouth</b>	0.20	0.21	0.32	0.08	0.24
	(0.10)	(0.21)	(0.18)	(0.08)	(0.17)
<b>Orangespotted sunfish</b>	0.14	0.24			0.15
	(0.07)	(0.12)			(0.15)
<b>Bluegill</b>	117.10	41.54	25.60	10.07	261.77
	(81.63)	(21.12)	(22.80)	(6.09)	(214.54)
<b>Unidentified Lepomis</b>	131.32	344.30	190.34	18.18	0.55
	(80.29)	(234.81)	(147.14)	(16.96)	(0.38)
<b>Smallmouth bass</b>	0.16	0.19		0.16	0.16
	(0.08)	(0.15)		(0.16)	(0.11)
<b>Largemouth bass</b>	4.43	10.61	2.07	0.95	1.28
	(2.58)	(7.53)	(1.30)	(0.59)	(0.62)
<b>White crappie</b>	0.01	0.04			
	(0.01)	(0.04)			
<b>Black crappie</b>	2.86	7.58	0.08		0.72
	(1.12)	(3.25)	(0.08)		(0.45)

<b>Western sand darter</b>	0.04	0.12			
	(0.03)	(0.09)			
<b>Mud darter</b>	1.26	1.52		2.37	0.53
	(0.58)	(0.60)		(2.29)	(0.36)
<b>Iowa darter</b>	0.04	0.11			
	(0.04)	(0.11)			
<b>Johnny darter</b>	6.04	4.60	0.33	15.02	2.66
	(2.99)	(2.13)	(0.19)	(12.07)	(2.33)
<b>Yellow perch</b>	0.09	0.08			0.17
	(0.07)	(0.06)			(0.17)
<b>Logperch</b>	0.16	0.12		0.38	0.08
	(0.07)	(0.08)		(0.24)	(0.08)
<b>River darter</b>	0.02			0.07	
	(0.02)			(0.07)	
<b>Walleye</b>	0.05	0.04		0.16	
	(0.04)	(0.04)		(0.16)	
<b>Freshwater drum</b>	0.18	0.23	0.17	0.42	
	(0.08)	(0.10)	(0.17)	(0.33)	

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


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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 2001. 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>	0.07	0.07
	(0.07)	(0.07)
<b>Gizzard shad</b>	0.79	0.79
	(0.30)	(0.30)
<b>Spotfin shiner</b>	1.08	1.08
	(0.65)	(0.65)
<b>Common carp</b>	0.16	0.16
	(0.12)	(0.12)
<b>Golden shiner</b>	0.45	0.45
	(0.30)	(0.31)
<b>Emerald shiner</b>	1.93	1.93
	(1.42)	(1.43)
<b>Spottail shiner</b>	0.80	0.80

	(0.43)	(0.43)
<b>Weed shiner</b>	0.97	0.97
	(0.82)	(0.82)
<b>Mimic shiner</b>	3.42	3.42
	(2.38)	(2.38)
<b>Pugnose minnow</b>	23.80	23.80
	(18.10)	(18.15)
<b>Bullhead minnow</b>	92.07	92.07
	(56.56)	(56.74)
<b>Silver redhorse</b>	0.30	0.30
	(0.19)	(0.19)
<b>Shorthead redhorse</b>	0.04	0.04
	(0.04)	(0.04)
<b>Unidentified sucker</b>	0.03	0.03
	(0.03)	(0.03)
<b>Tadpole madtom</b>	0.44	0.44
	(0.32)	(0.32)
<b>Trout perch</b>	0.04	0.04
	(0.04)	(0.04)
<b>White bass</b>	3.68	3.68
	(3.34)	(3.35)
<b>Rock bass</b>	0.46	0.46
	(0.17)	(0.17)

<b>Warmouth</b>	0.24	0.24
	(0.24)	(0.24)
<b>Orangespotted sunfish</b>	0.08	0.08
	(0.08)	(0.08)
<b>Bluegill</b>	16.87	16.87
	(10.83)	(10.86)
<b>Unidentified Lepomis</b>	109.38	109.38
	(84.64)	(84.90)
<b>Largemouth bass</b>	4.43	4.43
	(4.17)	(4.18)
<b>White crappie</b>	0.04	0.04
	(0.04)	(0.04)
<b>Black crappie</b>	11.57	11.57
	(8.68)	(8.71)
<b>Mud darter</b>	0.18	0.18
	(0.14)	(0.14)
<b>Johnny darter</b>	2.00	2.00
	(1.83)	(1.83)
<b>Yellow perch</b>	0.04	0.04
	(0.04)	(0.04)
<b>Freshwater drum</b>	0.11	0.11
	(0.08)	(0.08)

**Sampling stratum:**

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

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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 2001. 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	IMPO	MCBU	SCB
<b>Common carp</b>	0.14	0.20		0.04
	(0.11)	(0.16)		(0.04)
<b>Silver chub</b>	0.02		0.13	0.04
	(0.02)		(0.13)	(0.04)
<b>Smallmouth buffalo</b>	0.04	0.04		0.04
	(0.03)	(0.04)		(0.04)
<b>Silver redhorse</b>	0.09	0.08		0.16
	(0.04)	(0.05)		(0.09)
<b>Golden redhorse</b>	0.02			0.08
	(0.02)			(0.08)
<b>Shorthead redhorse</b>	0.14	0.12	0.04	0.27
	(0.06)	(0.06)	(0.04)	(0.23)
<b>Channel catfish</b>	0.58	0.44	0.65	1.01

	(0.21)	(0.28)	(0.27)	(0.35)
<b>Stonecat</b>	0.02		0.08	0.04
	(0.01)		(0.08)	(0.04)
<b>White bass</b>	0.08	0.12		
	(0.06)	(0.09)		
<b>Rock bass</b>	0.16	0.12		0.36
	(0.07)	(0.09)		(0.17)
<b>Bluegill</b>	0.08		0.12	0.34
	(0.05)		(0.06)	(0.26)
<b>Black crappie</b>	0.05		0.04	0.24
	(0.04)		(0.04)	(0.20)
<b>Freshwater drum</b>	0.08	0.04	0.08	0.20
	(0.04)	(0.04)	(0.05)	(0.11)

**Sampling strata:****IMPO - Impounded, offshore****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/2001/pool\\_8/tb3\\_wi0009.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/pool_8/tb3_wi0009.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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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 2001. 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	IMPO	MCBU	SCB
<b>Longnose gar</b>	0.06	0.08		0.04
	(0.04)	(0.06)		(0.04)
<b>Common carp</b>	0.09	0.08		0.16
	(0.04)	(0.05)		(0.09)
<b>Smallmouth buffalo</b>	0.25	0.16	0.91	0.12
	(0.10)	(0.11)	(0.52)	(0.06)
<b>Silver redhorse</b>	0.17	0.20	0.04	0.16
	(0.07)	(0.09)	(0.04)	(0.09)
<b>Golden redhorse</b>	0.03	0.04		
	(0.03)	(0.04)		
<b>Shorthead redhorse</b>	0.24	0.25	0.08	0.32
	(0.09)	(0.13)	(0.08)	(0.15)
<b>Channel catfish</b>	1.35	0.32	0.62	5.19

	(0.58)	(0.19)	(0.27)	(2.80)
<b>Flathead catfish</b>	0.07	0.04	0.13	0.12
	(0.03)	(0.04)	(0.09)	(0.06)
<b>Northern pike</b>	0.01			0.04
	(0.01)			(0.04)
<b>White bass</b>	0.01		0.04	0.04
	(0.01)		(0.04)	(0.04)
<b>Rock bass</b>	0.01		0.08	
	(0.01)		(0.05)	
<b>Pumpkinseed</b>	0.03	0.04		
	(0.03)	(0.04)		
<b>Bluegill</b>	0.25	0.16	0.36	0.47
	(0.10)	(0.12)	(0.26)	(0.22)
<b>White crappie</b>	0.01			0.04
	(0.01)			(0.04)
<b>Black crappie</b>	0.16	0.08	0.08	0.47
	(0.06)	(0.05)	(0.06)	(0.23)
<b>Freshwater drum</b>	0.27	0.12	0.16	0.84
	(0.10)	(0.09)	(0.12)	(0.41)

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


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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 2001. 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>Gizzard shad</b>	0.52	1.25	0.08
	(0.27)	(0.70)	(0.08)
<b>Spotfin shiner</b>	75.10	154.04	27.33
	(38.32)	(100.85)	(9.78)
<b>Common carp</b>	0.10	0.13	0.08
	(0.05)	(0.09)	(0.06)
<b>Pallid shiner</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Emerald shiner</b>	53.74	113.08	17.83
	(19.94)	(52.08)	(6.41)
<b>River shiner</b>	12.71	23.13	6.42

	(4.33)	(9.51)	(3.95)
<b>Spottail shiner</b>	1.40	0.83	1.75
	(0.78)	(0.35)	(1.24)
<b>Sand shiner</b>	0.03		0.04
	(0.03)		(0.04)
<b>Weed shiner</b>	3.64	5.67	2.42
	(1.72)	(4.01)	(1.33)
<b>Mimic shiner</b>	3.73	2.25	4.63
	(1.46)	(0.95)	(2.28)
<b>Unidentified shiner</b>	12.19	32.33	
	(8.73)	(23.27)	
<b>Pugnose minnow</b>	0.48	0.04	0.75
	(0.41)	(0.04)	(0.67)
<b>Bluntnose minnow</b>	0.03		0.04
	(0.03)		(0.04)
<b>Fathead minnow</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Bullhead minnow</b>	7.22	4.96	8.58
	(2.75)	(3.77)	(3.79)
<b>River carpsucker</b>	0.26		0.42
	(0.19)		(0.31)
<b>Quillback</b>	0.09	0.04	0.13
	(0.08)	(0.04)	(0.13)

<b>Bigmouth buffalo</b>	0.03		0.04
	(0.03)		(0.04)
<b>Spotted sucker</b>	0.08		0.13
	(0.06)		(0.09)
<b>Silver redhorse</b>	0.09	0.04	0.13
	(0.06)	(0.04)	(0.09)
<b>Golden redhorse</b>	0.16		0.25
	(0.11)		(0.18)
<b>Shorthead redhorse</b>	0.26		0.42
	(0.26)		(0.42)
<b>Tadpole madtom</b>	0.12	0.04	0.17
	(0.06)	(0.04)	(0.10)
<b>Northern pike</b>	0.10		0.17
	(0.05)		(0.08)
<b>Brook silverside</b>	3.90	2.83	4.54
	(1.40)	(2.06)	(1.87)
<b>White bass</b>	2.02	0.88	2.71
	(1.60)	(0.71)	(2.54)
<b>Rock bass</b>	0.07	0.13	0.04
	(0.05)	(0.13)	(0.04)
<b>Green sunfish</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Orangespotted sunfish</b>	0.44		0.71

	(0.41)		(0.67)
<b>Bluegill</b>	2.92	1.63	3.71
	(1.50)	(0.77)	(2.37)
<b>Unidentified Lepomis</b>	0.73	1.67	0.17
	(0.49)	(1.29)	(0.10)
<b>Smallmouth bass</b>	0.07	0.04	0.08
	(0.04)	(0.04)	(0.06)
<b>Largemouth bass</b>	3.77	0.42	5.79
	(0.97)	(0.19)	(1.56)
<b>Black crappie</b>	0.26		0.42
	(0.23)		(0.38)
<b>Western sand darter</b>	0.28	0.25	0.29
	(0.13)	(0.14)	(0.19)
<b>Mud darter</b>	0.12	0.04	0.17
	(0.08)	(0.04)	(0.13)
<b>Johnny darter</b>	1.27	0.13	1.96
	(0.51)	(0.07)	(0.82)
<b>Yellow perch</b>	0.03		0.04
	(0.03)		(0.04)
<b>Slenderhead darter</b>	0.05		0.08
	(0.05)		(0.08)
<b>Freshwater drum</b>	0.78	0.08	1.21
	(0.52)	(0.08)	(0.84)

## **Sampling strata:**

**MCBU - Main channel border, unstructured**

**SCB - Side channel border**

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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 2001. 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>Silver lamprey</b>	0.19
	(0.12)
<b>Longnose gar</b>	0.34
	(0.18)
<b>Bowfin</b>	0.66
	(0.25)
<b>Mooneye</b>	0.55
	(0.38)
<b>Gizzard shad</b>	26.30
	(11.35)
<b>Spotfin shiner</b>	66.89
	(41.23)
<b>Common carp</b>	2.25
	(0.76)

<b>Silver chub</b>	0.04
	(0.04)
<b>Golden shiner</b>	0.67
	(0.39)
<b>Emerald shiner</b>	36.02
	(13.01)
<b>River shiner</b>	53.58
	(36.77)
<b>Spottail shiner</b>	1.47
	(0.96)
<b>Sand shiner</b>	0.10
	(0.07)
<b>Weed shiner</b>	0.41
	(0.13)
<b>Mimic shiner</b>	81.95
	(36.53)
<b>Pugnose minnow</b>	0.24
	(0.19)
<b>Bullhead minnow</b>	15.04
	(6.61)
<b>River carpsucker</b>	0.27
	(0.22)
<b>Quillback</b>	2.68

	(1.51)
<b>Highfin carpsucker</b>	0.09
	(0.06)
<b>White sucker</b>	0.16
	(0.09)
<b>Bigmouth buffalo</b>	0.04
	(0.04)
<b>Spotted sucker</b>	1.81
	(1.18)
<b>Silver redhorse</b>	1.23
	(0.38)
<b>Golden redhorse</b>	1.71
	(0.53)
<b>Shorthead redhorse</b>	9.46
	(3.82)
<b>Channel catfish</b>	6.87
	(4.78)
<b>Tadpole madtom</b>	0.29
	(0.16)
<b>Flathead catfish</b>	0.46
	(0.25)
<b>Northern pike</b>	1.22
	(0.54)

<b>Brook silverside</b>	11.60
	(4.21)
<b>White bass</b>	82.68
	(25.46)
<b>Rock bass</b>	4.17
	(1.10)
<b>Green sunfish</b>	1.44
	(0.37)
<b>Pumpkinseed</b>	0.38
	(0.19)
<b>Warmouth</b>	0.28
	(0.16)
<b>Orangespotted sunfish</b>	0.18
	(0.14)
<b>Bluegill</b>	75.71
	(23.77)
<b>Green x pumpkinseed sunfish</b>	0.23
	(0.16)
<b>Green x bluegill sunfish</b>	0.10
	(0.07)
<b>Unidentified Lepomis</b>	0.51
	(0.41)
<b>Smallmouth bass</b>	7.87

	(3.48)
<b>Largemouth bass</b>	37.72
	(7.81)
<b>Black crappie</b>	1.13
	(0.29)
<b>Western sand darter</b>	0.51
	(0.24)
<b>Mud darter</b>	0.70
	(0.33)
<b>Iowa darter</b>	0.04
	(0.04)
<b>Johnny darter</b>	1.21
	(0.49)
<b>Yellow perch</b>	4.76
	(2.45)
<b>Logperch</b>	2.40
	(1.17)
<b>Slenderhead darter</b>	0.16
	(0.12)
<b>River darter</b>	0.17
	(0.17)
<b>Sauger</b>	32.37
	(12.92)

<b>Walleye</b>	37.73
	(17.37)
<b>Freshwater drum</b>	3.98
	(1.29)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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 2001. 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	0.31
	(0.31)
Shortnose gar	0.16
	(0.16)
Gizzard shad	4.01
	(3.20)
Spotfin shiner	20.61
	(12.82)
Common carp	0.30
	(0.30)
Golden shiner	0.60
	(0.60)
Emerald shiner	9.37
	(8.78)

<b>River shiner</b>	21.65
	(20.17)
<b>Spottail shiner</b>	1.14
	(1.14)
<b>Sand shiner</b>	0.16
	(0.16)
<b>Weed shiner</b>	27.12
	(26.54)
<b>Mimic shiner</b>	288.98
	(183.69)
<b>Pugnose minnow</b>	6.89
	(5.63)
<b>Bluntnose minnow</b>	0.16
	(0.16)
<b>Bullhead minnow</b>	2.99
	(1.60)
<b>Spotted sucker</b>	0.19
	(0.19)
<b>Silver redhorse</b>	0.19
	(0.19)
<b>Channel catfish</b>	0.34
	(0.22)
<b>Tadpole madtom</b>	1.65

	(0.93)
<b>Northern pike</b>	2.25
	(1.83)
<b>Brook silverside</b>	0.19
	(0.19)
<b>White bass</b>	7.55
	(5.23)
<b>Green sunfish</b>	0.60
	(0.30)
<b>Bluegill</b>	14.33
	(7.41)
<b>Green x pumpkinseed sunfish</b>	0.15
	(0.15)
<b>Unidentified Lepomis</b>	9.52
	(9.52)
<b>Largemouth bass</b>	23.09
	(20.82)
<b>Black crappie</b>	0.60
	(0.60)
<b>Western sand darter</b>	0.15
	(0.15)
<b>Mud darter</b>	0.38
	(0.38)

<b>Johnny darter</b>	1.20
	(1.02)
<b>Yellow perch</b>	0.19
	(0.19)
<b>Logperch</b>	0.30
	(0.30)
<b>Sauger</b>	0.19
	(0.19)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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 2001. 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	0.17
	(0.17)
Shorthead redhorse	0.97
	(0.97)
Channel catfish	0.95
	(0.24)
Flathead catfish	0.16
	(0.10)
Rock bass	0.57
	(0.32)
Bluegill	1.14
	(0.78)

**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 2001. 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
Blue sucker	0.10
	(0.10)
Silver redhorse	0.39
	(0.39)
Shorthead redhorse	1.06
	(1.06)
Channel catfish	0.10
	(0.10)
Bluegill	0.50
	(0.50)
Smallmouth bass	0.10
	(0.10)
Black crappie	0.70
	(0.70)

<b>Freshwater drum</b>	0.39
	(0.19)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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 2001. 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
	(0.11)
Gizzard shad	0.83
	(0.59)
Spotfin shiner	53.42
	(23.38)
Common carp	0.42
	(0.15)
Golden shiner	0.08
	(0.08)
Emerald shiner	51.42
	(30.81)
River shiner	2.25
	(1.25)

<b>Spottail shiner</b>	1.08
	(0.58)
<b>Weed shiner</b>	2.25
	(1.16)
<b>Mimic shiner</b>	6.58
	(4.95)
<b>Pugnose minnow</b>	2.08
	(1.10)
<b>Bullhead minnow</b>	20.92
	(6.63)
<b>Spotted sucker</b>	0.08
	(0.08)
<b>Tadpole madtom</b>	0.50
	(0.29)
<b>Northern pike</b>	0.08
	(0.08)
<b>Brook silverside</b>	8.50
	(4.46)
<b>White bass</b>	0.50
	(0.29)
<b>Rock bass</b>	0.33
	(0.14)
<b>Green sunfish</b>	0.25

	(0.18)
<b>Pumpkinseed</b>	0.17
	(0.11)
<b>Bluegill</b>	34.58
	(15.78)
<b>Unidentified Lepomis</b>	2.08
	(1.23)
<b>Largemouth bass</b>	5.33
	(2.01)
<b>Mud darter</b>	1.08
	(0.36)
<b>Iowa darter</b>	0.08
	(0.08)
<b>Johnny darter</b>	2.08
	(0.65)
<b>Yellow perch</b>	1.83
	(1.01)
<b>Logperch</b>	0.33
	(0.19)
<b>Blackside darter</b>	0.08
	(0.08)
<b>River darter</b>	0.17
	(0.17)

## **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
<b>Silver lamprey</b>	0.08
	(0.08)
<b>Shovelnose sturgeon</b>	0.83
	(0.44)
<b>Gizzard shad</b>	0.08
	(0.08)
<b>Common carp</b>	0.33
	(0.26)
<b>Speckled chub</b>	0.08
	(0.08)
<b>White sucker</b>	0.08
	(0.08)
<b>Silver redhorse</b>	0.08
	(0.08)

<b>Shorthead redhorse</b>	0.42
	(0.23)
<b>Channel catfish</b>	4.25
	(2.27)
<b>Tadpole madtom</b>	0.08
	(0.08)
<b>Flathead catfish</b>	0.17
	(0.11)
<b>Bluegill</b>	0.25
	(0.18)
<b>Sauger</b>	1.17
	(0.63)
<b>Walleye</b>	0.75
	(0.51)
<b>Freshwater drum</b>	9.00
	(4.28)

**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
<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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*Last updated on September 22, 2004*

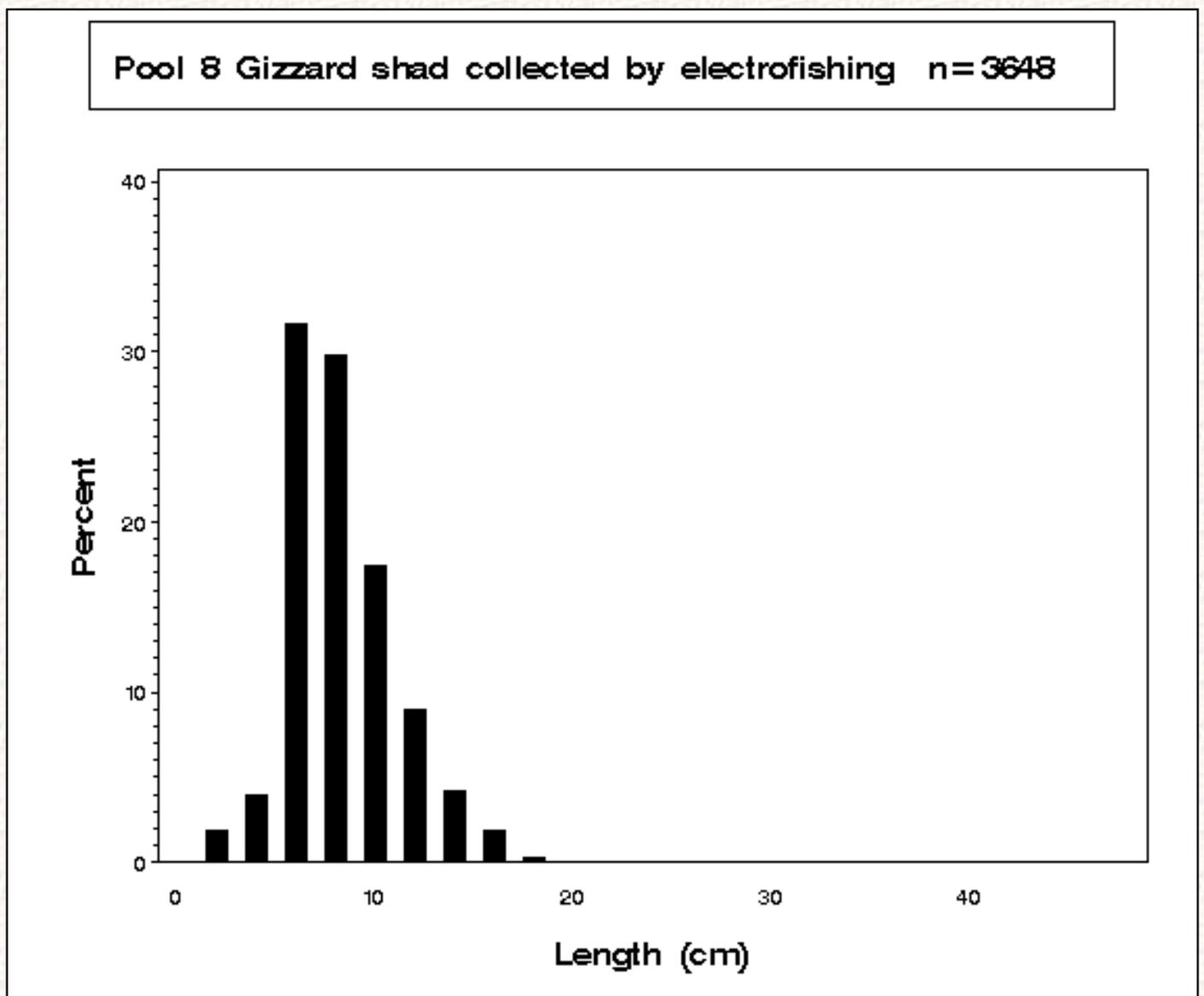
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[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2001/figures/wi\\_figures\\_length.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/figures/wi_figures_length.html)

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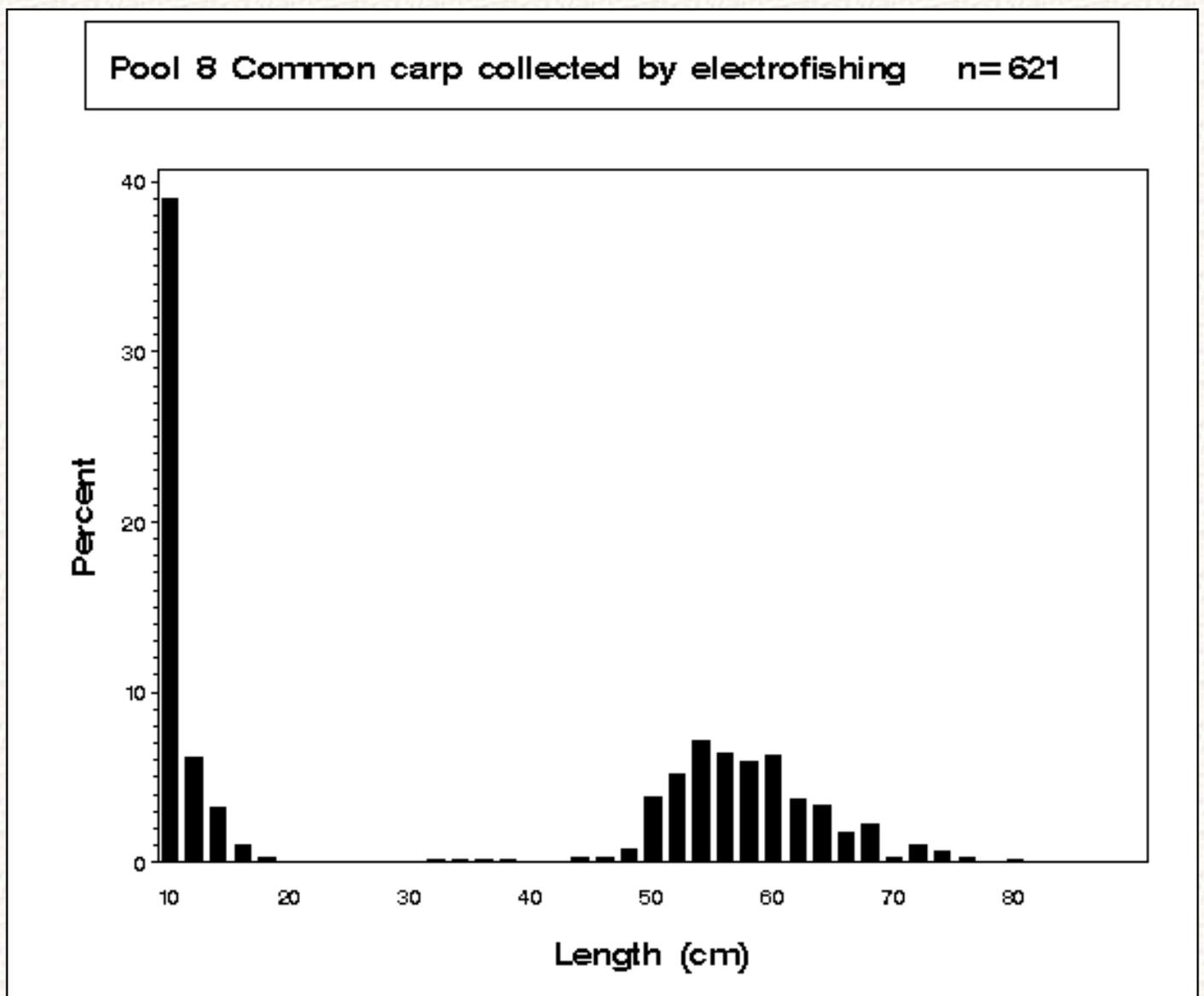
**Figure 2.2** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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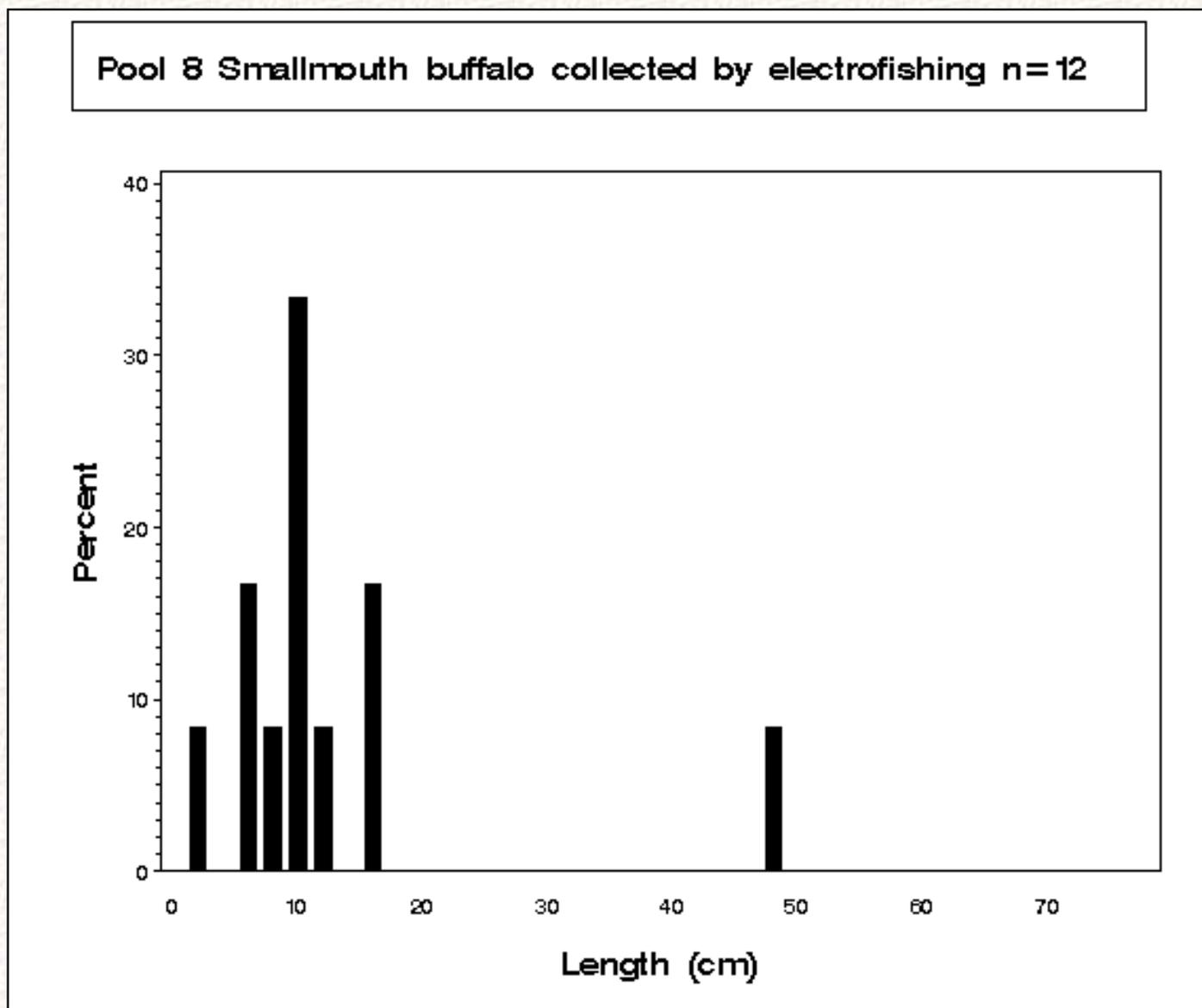
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**Figure 3.2** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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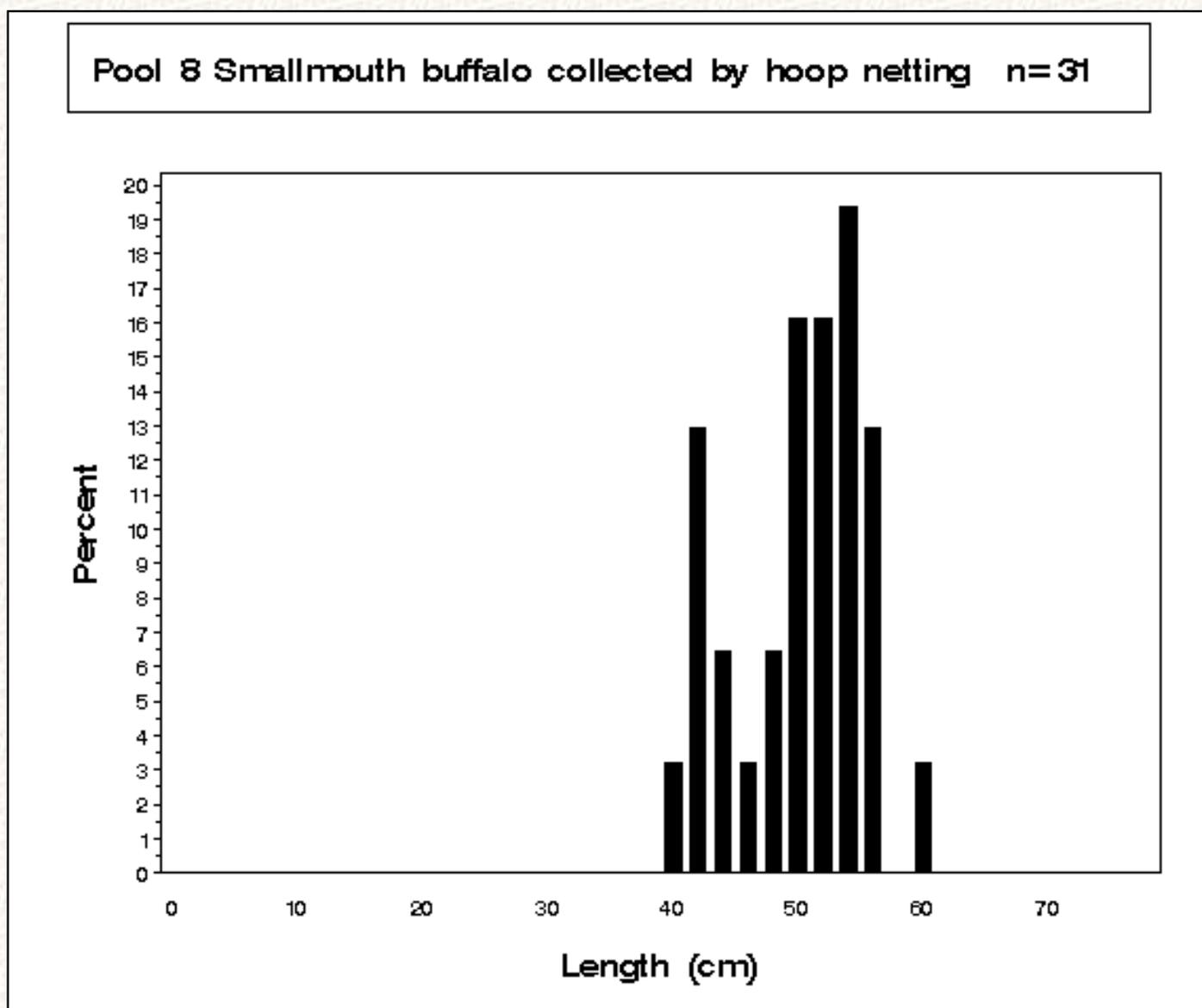
**Figure 4.2** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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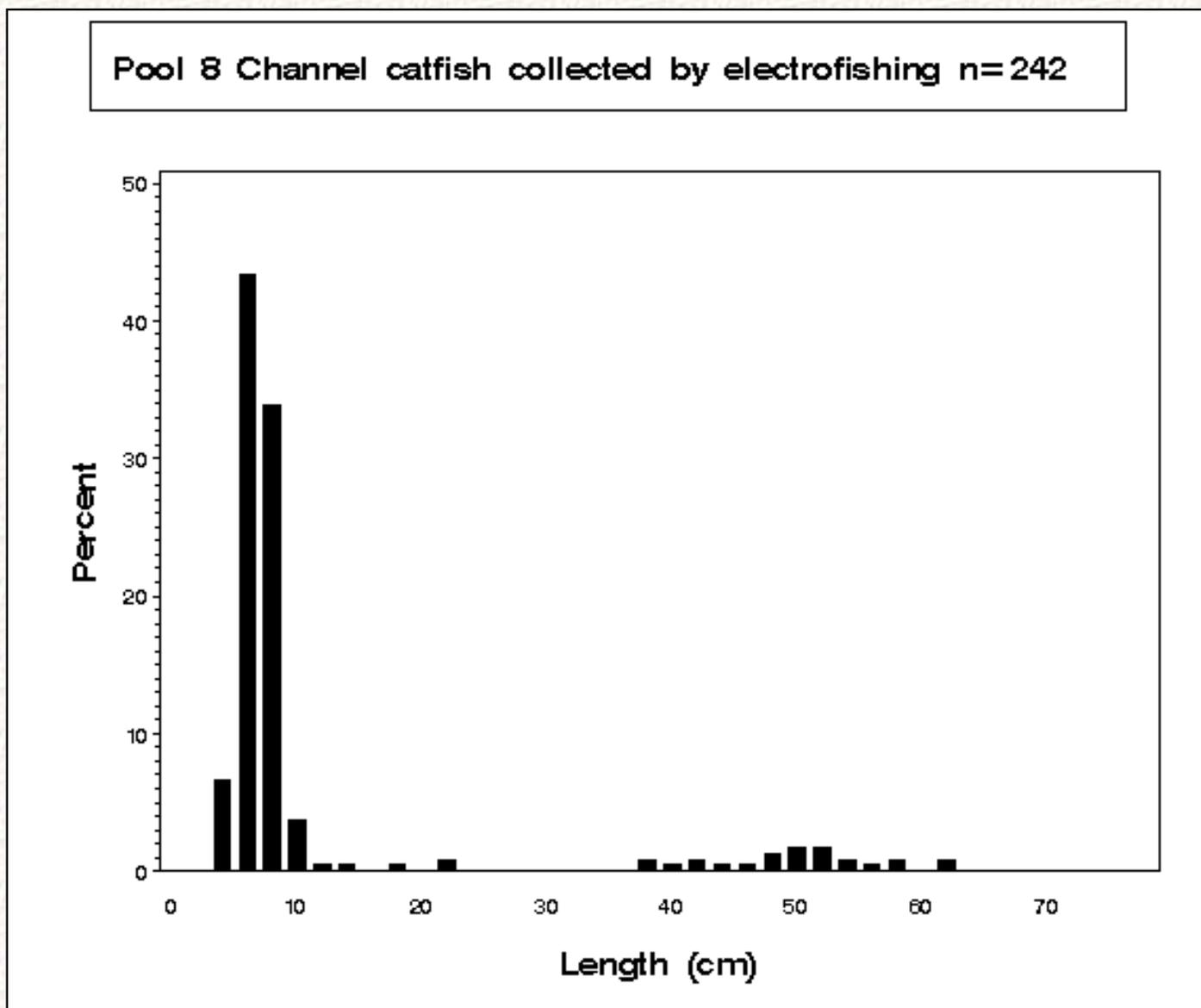
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**Figure 5.2** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



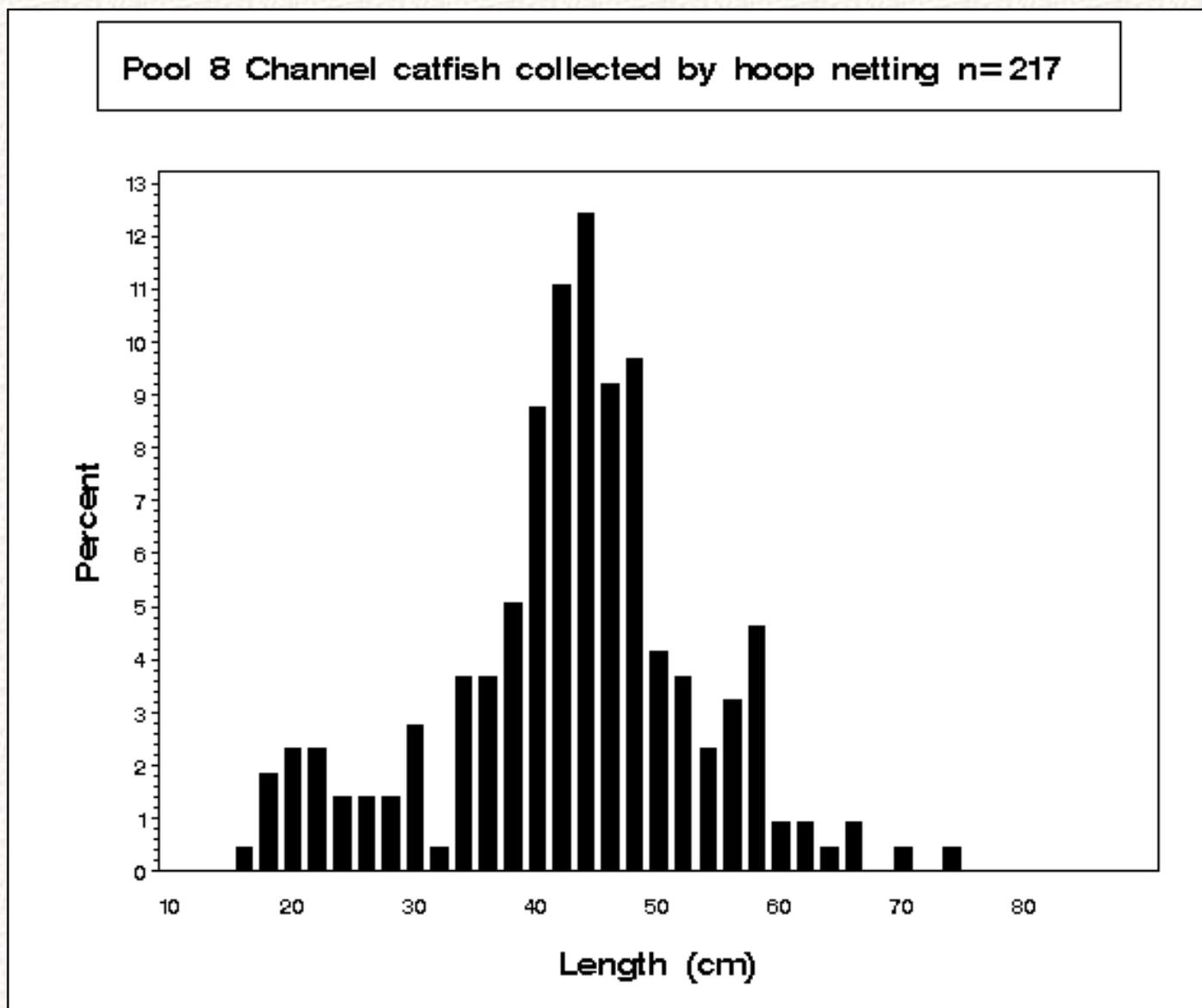
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**Figure 6.2** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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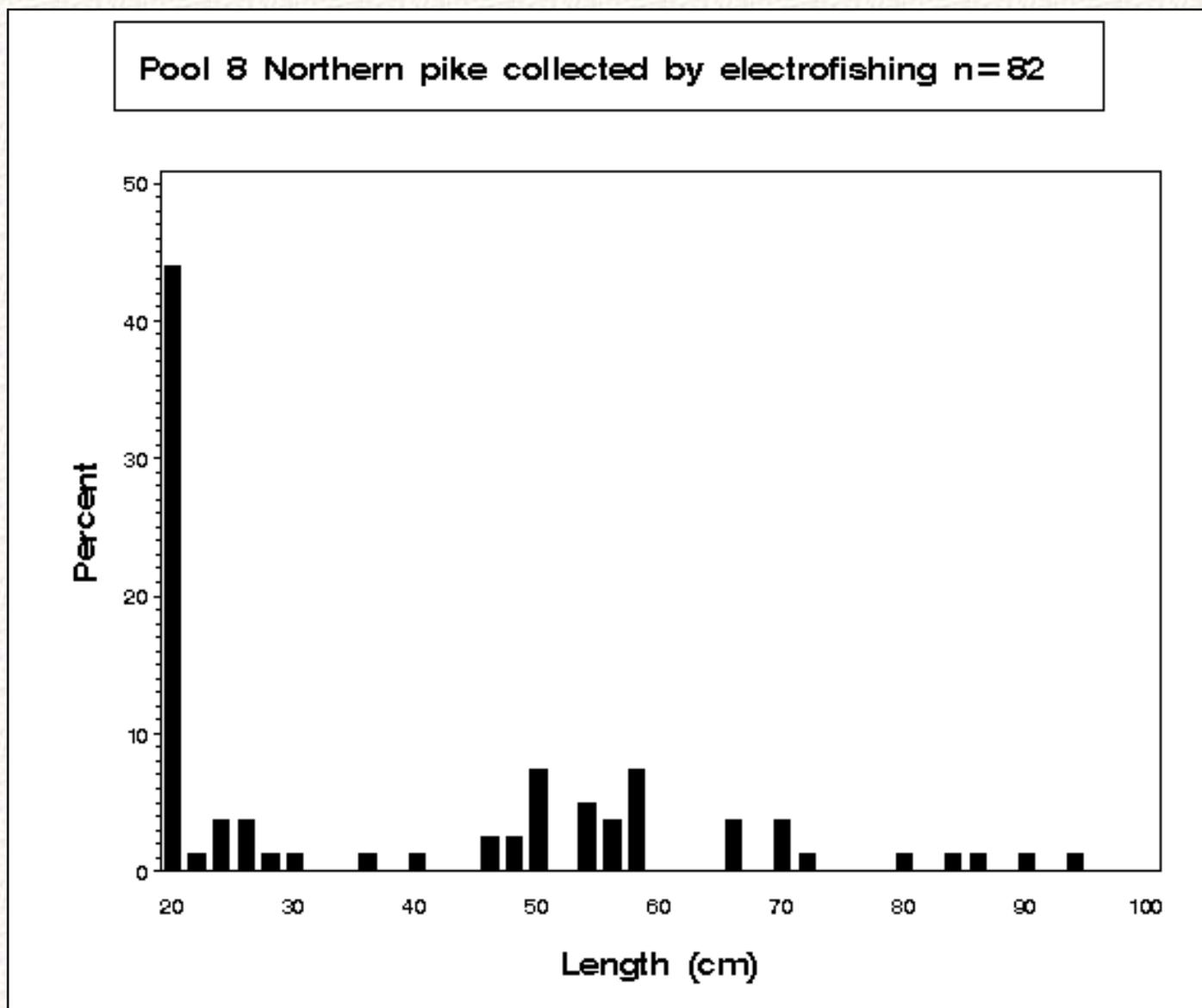
**Figure 7.2** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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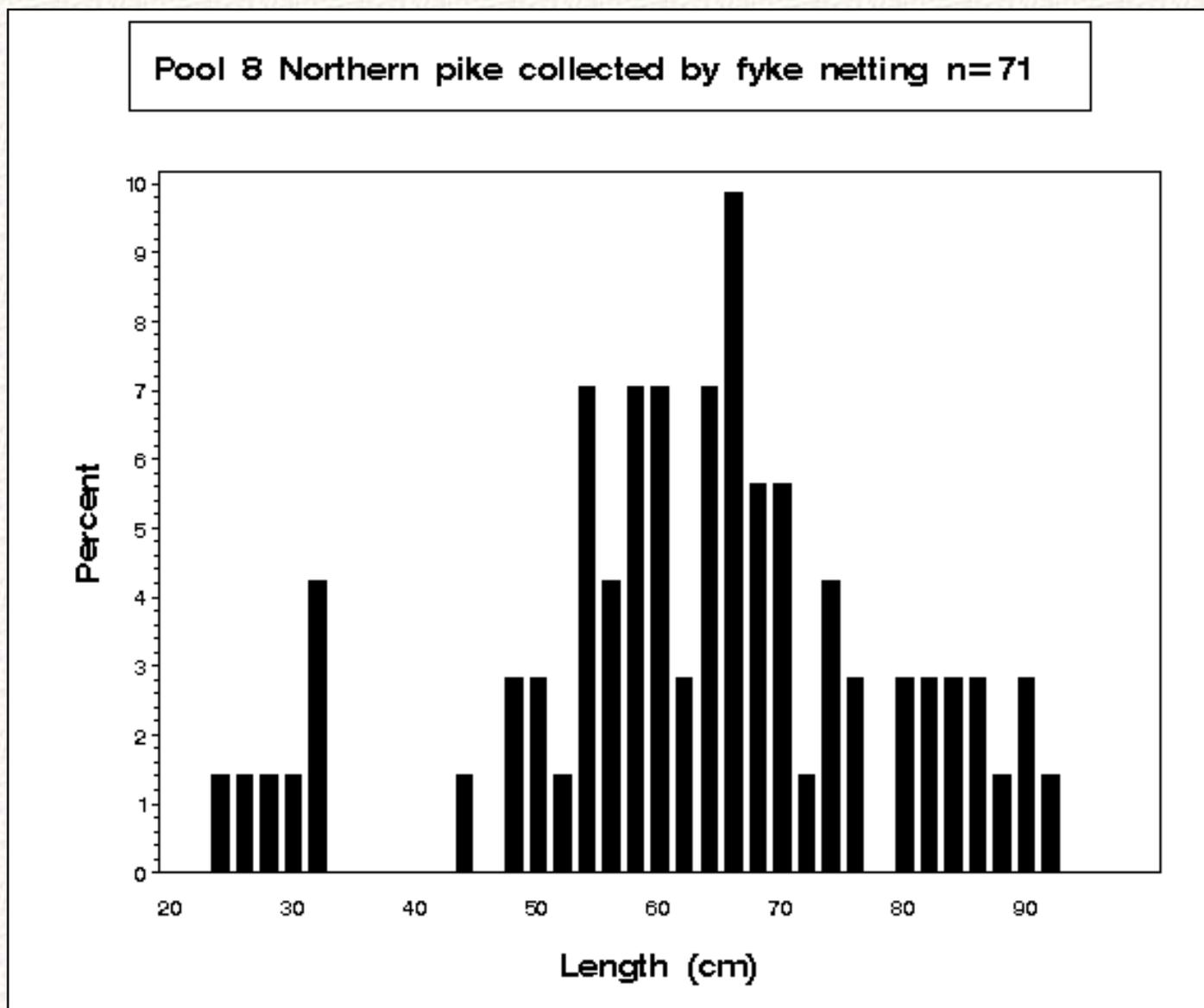
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**Figure 8.2** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



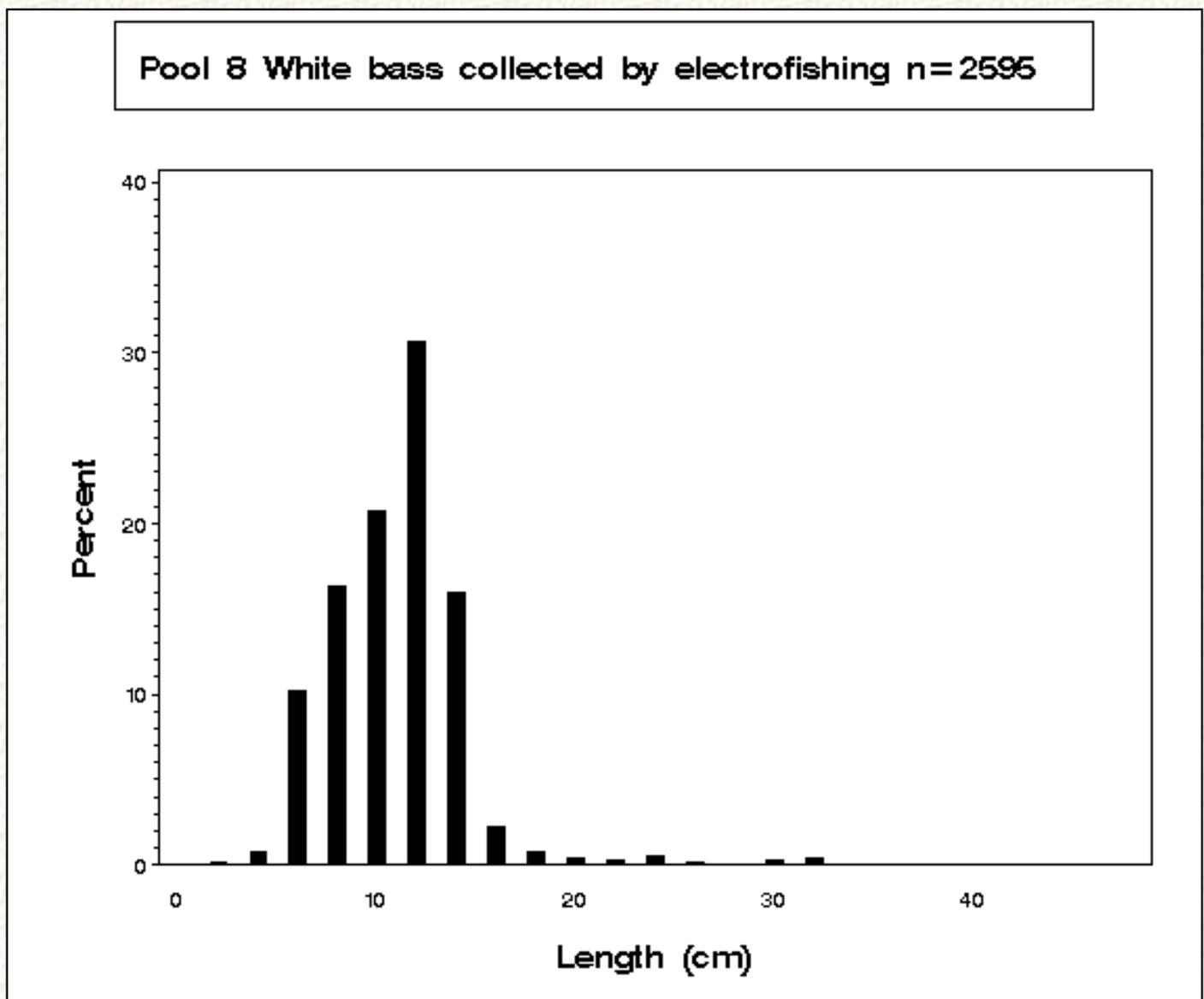
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**Figure 9.2** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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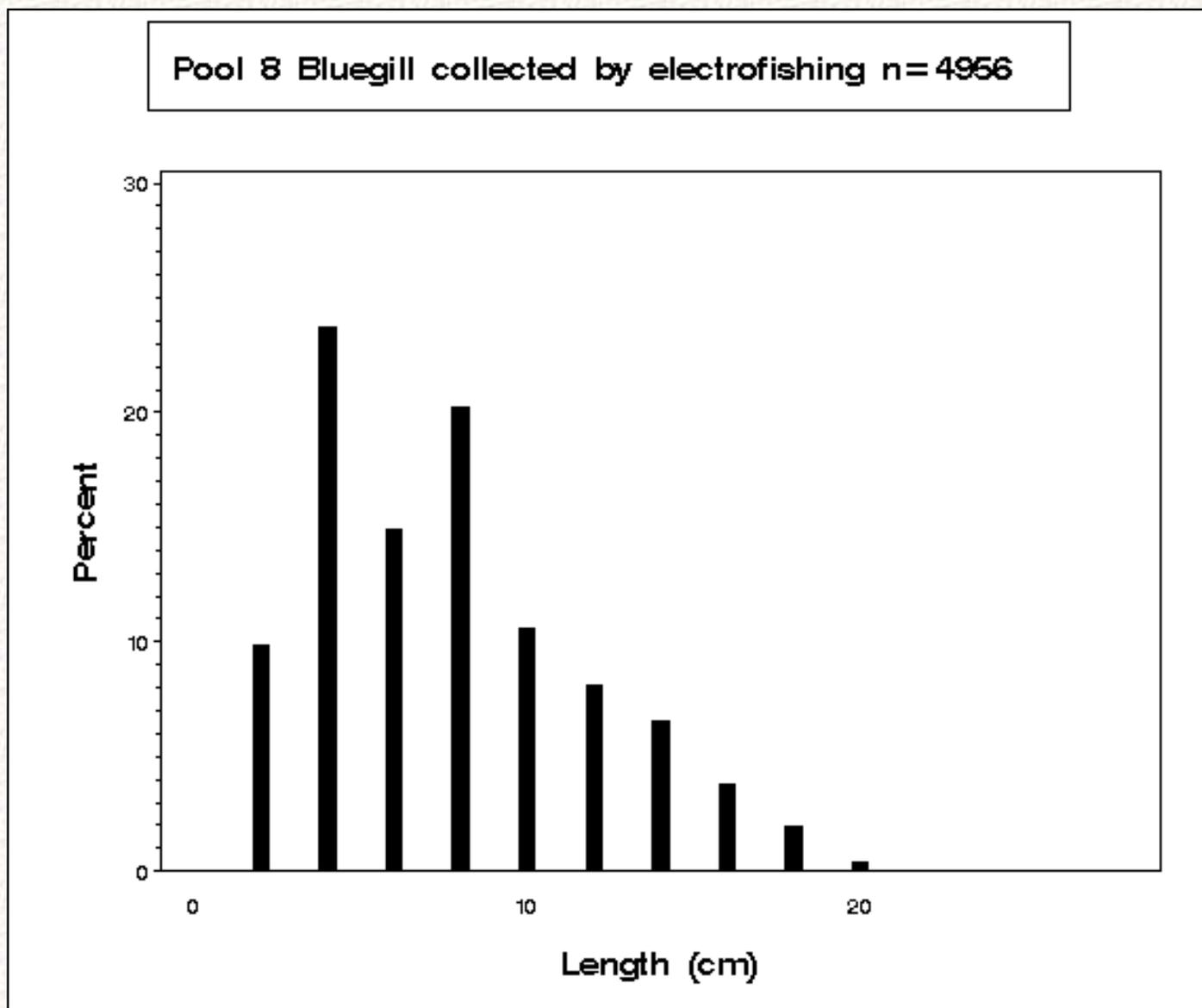
**Figure 10.2** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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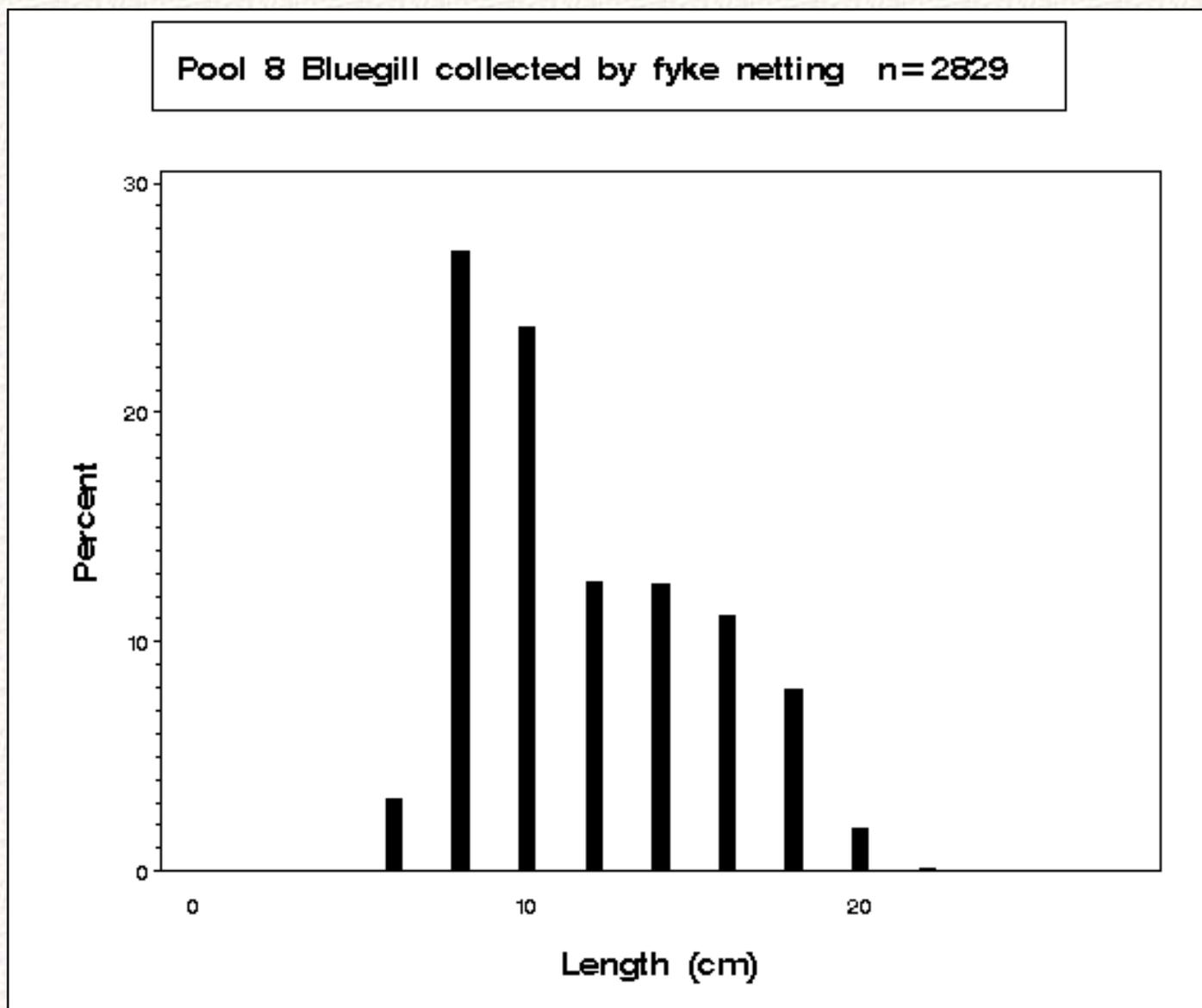
**Figure 11.2** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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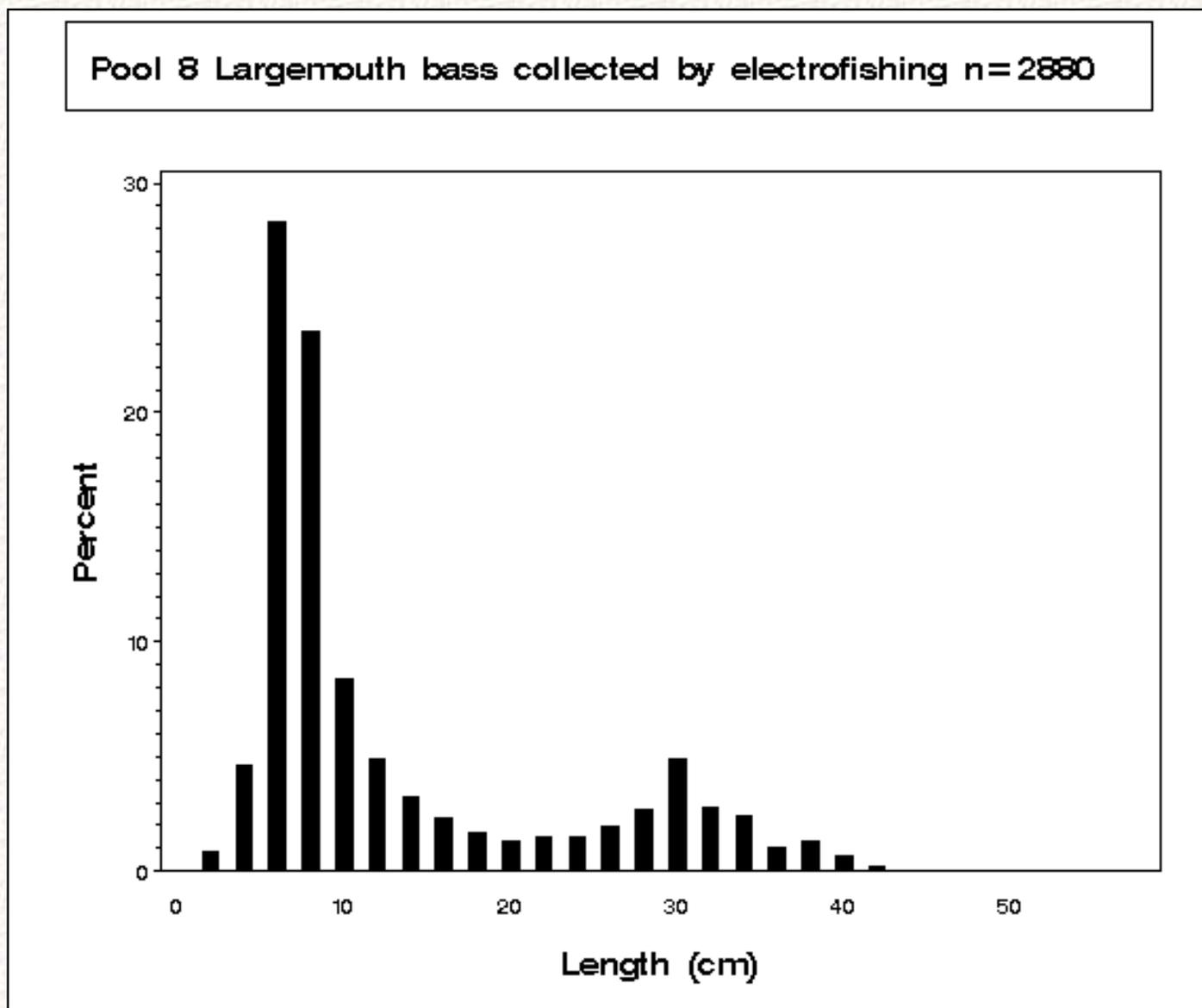
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**Figure 12.2** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



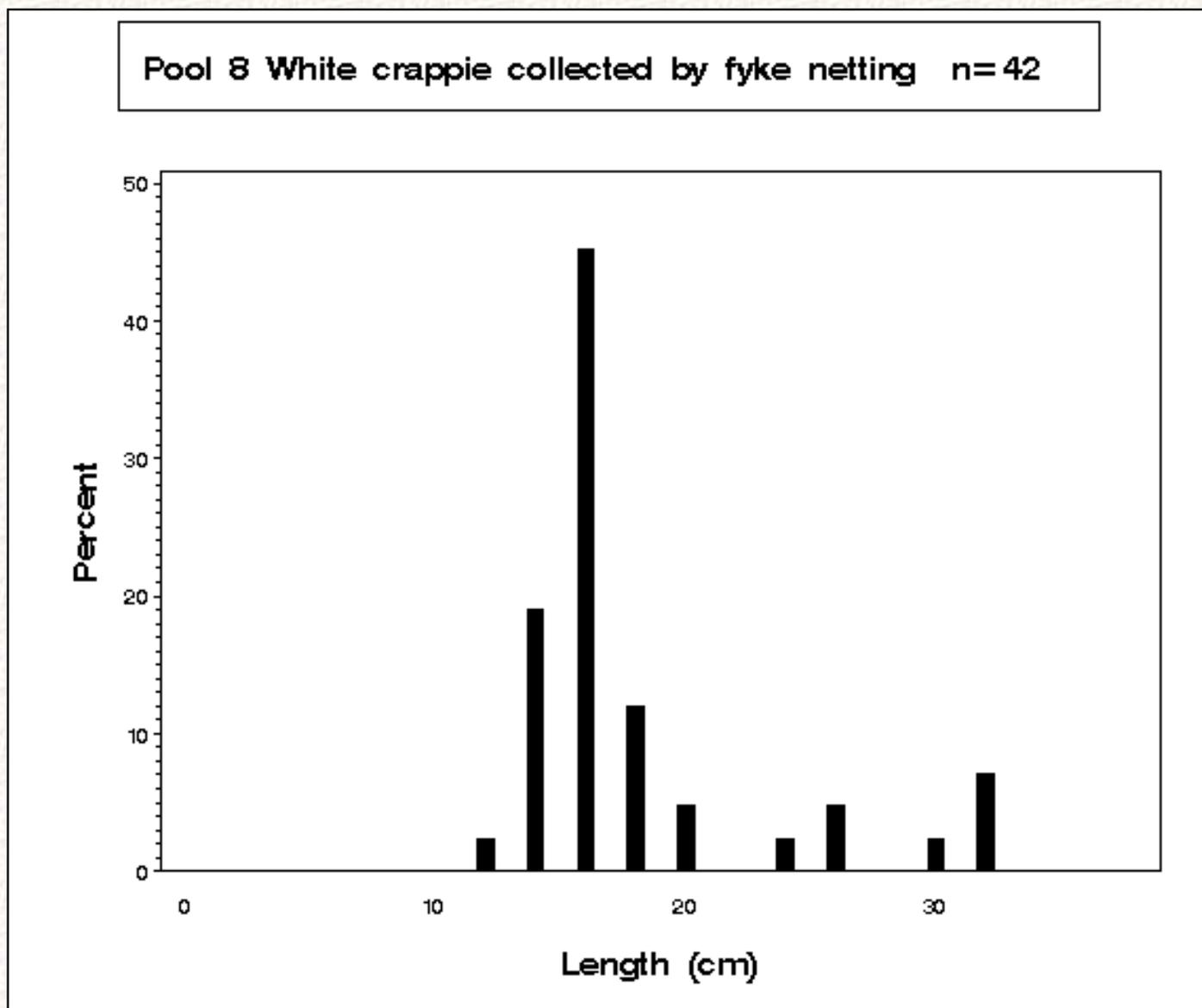
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**Figure 13.2** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



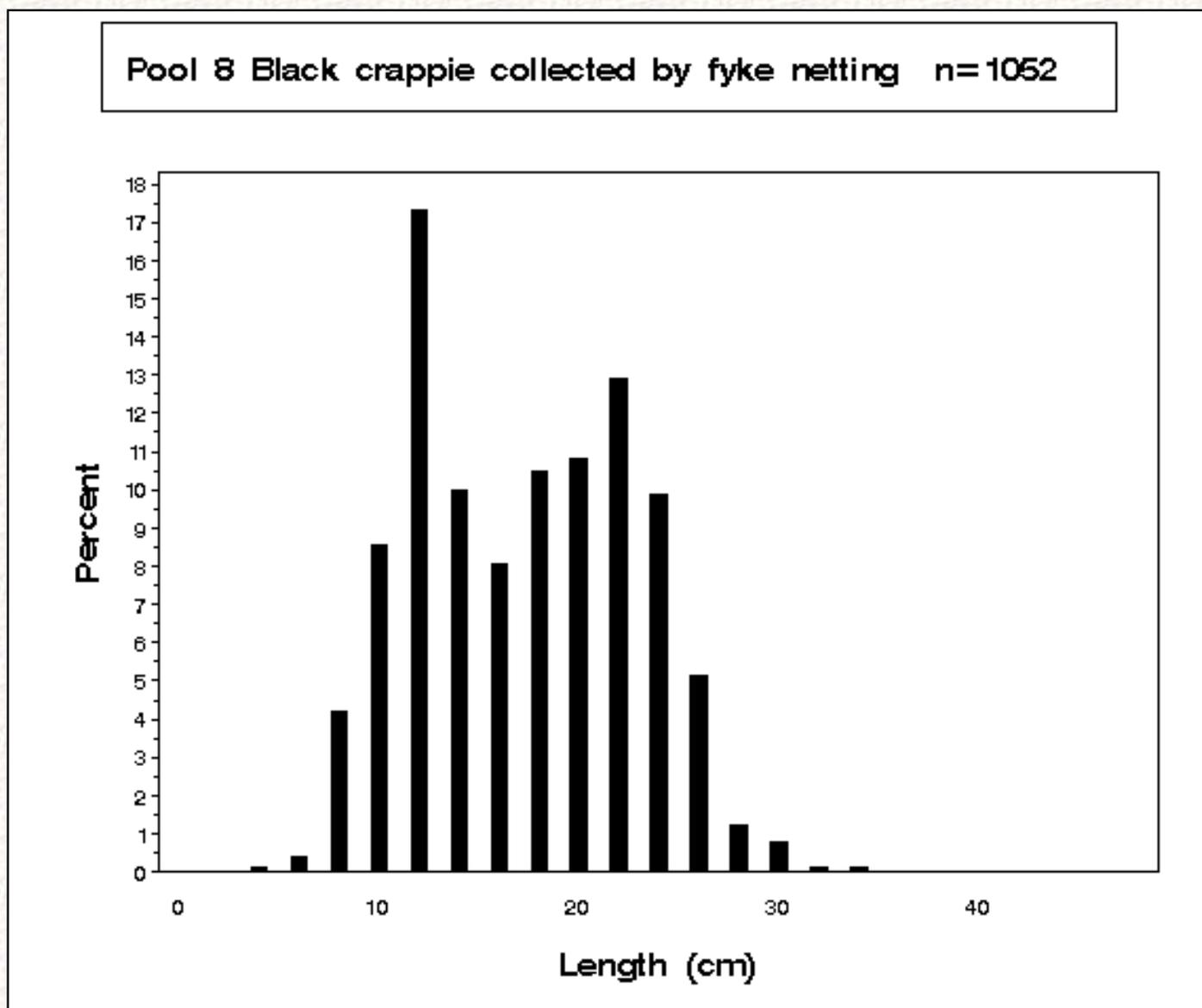
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**Figure 14.2** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



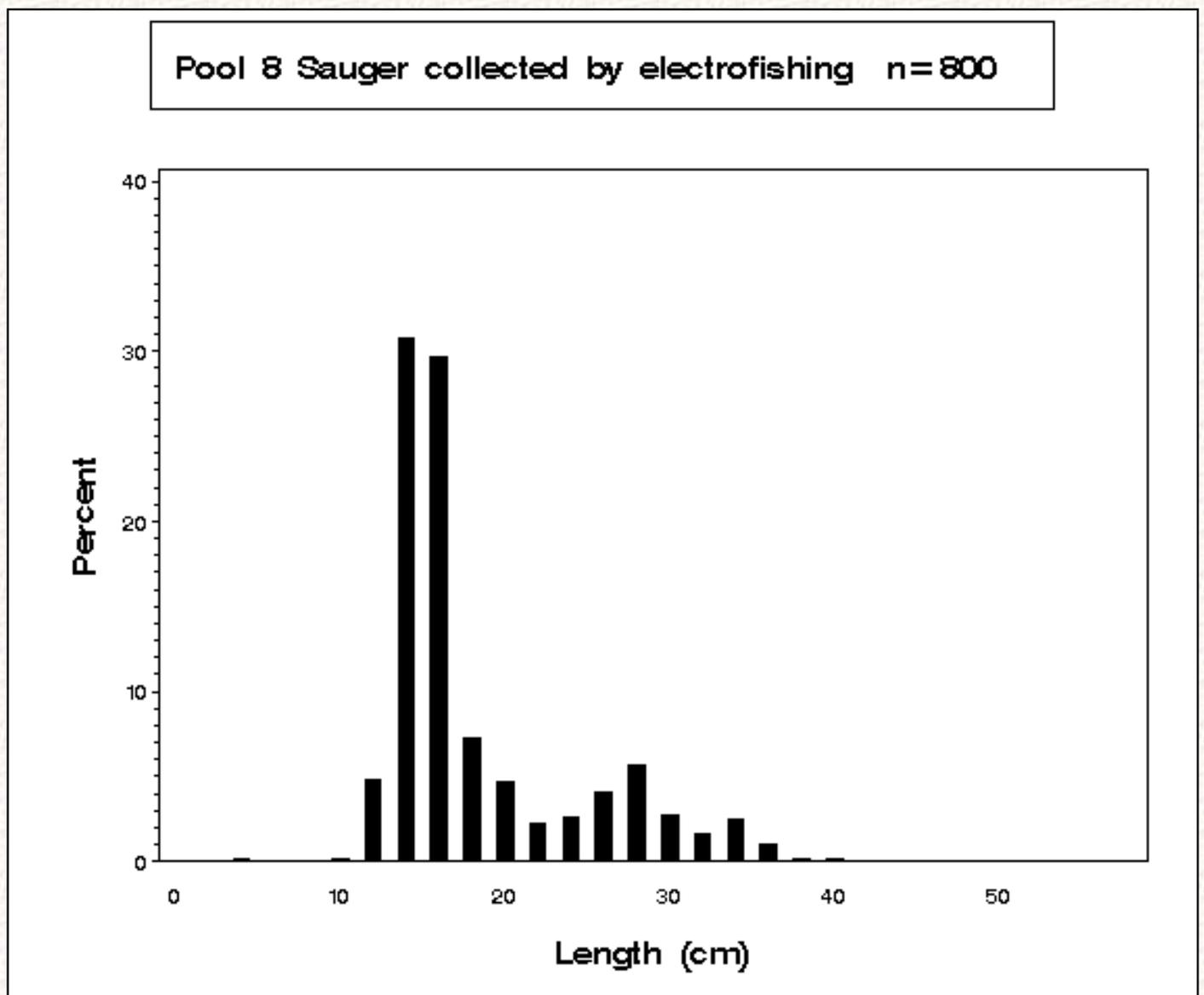
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**Figure 15.2** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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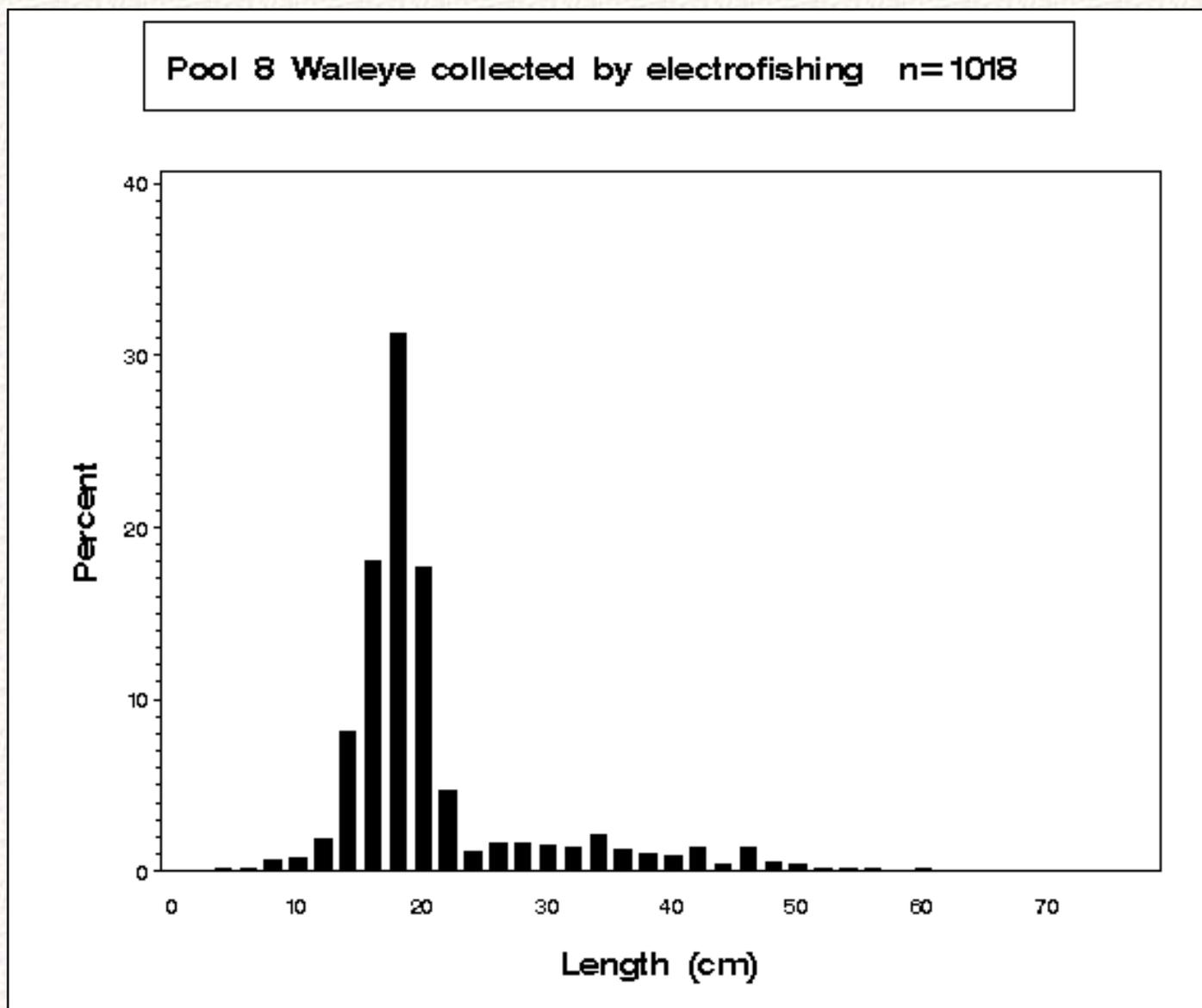
**Figure 16.2** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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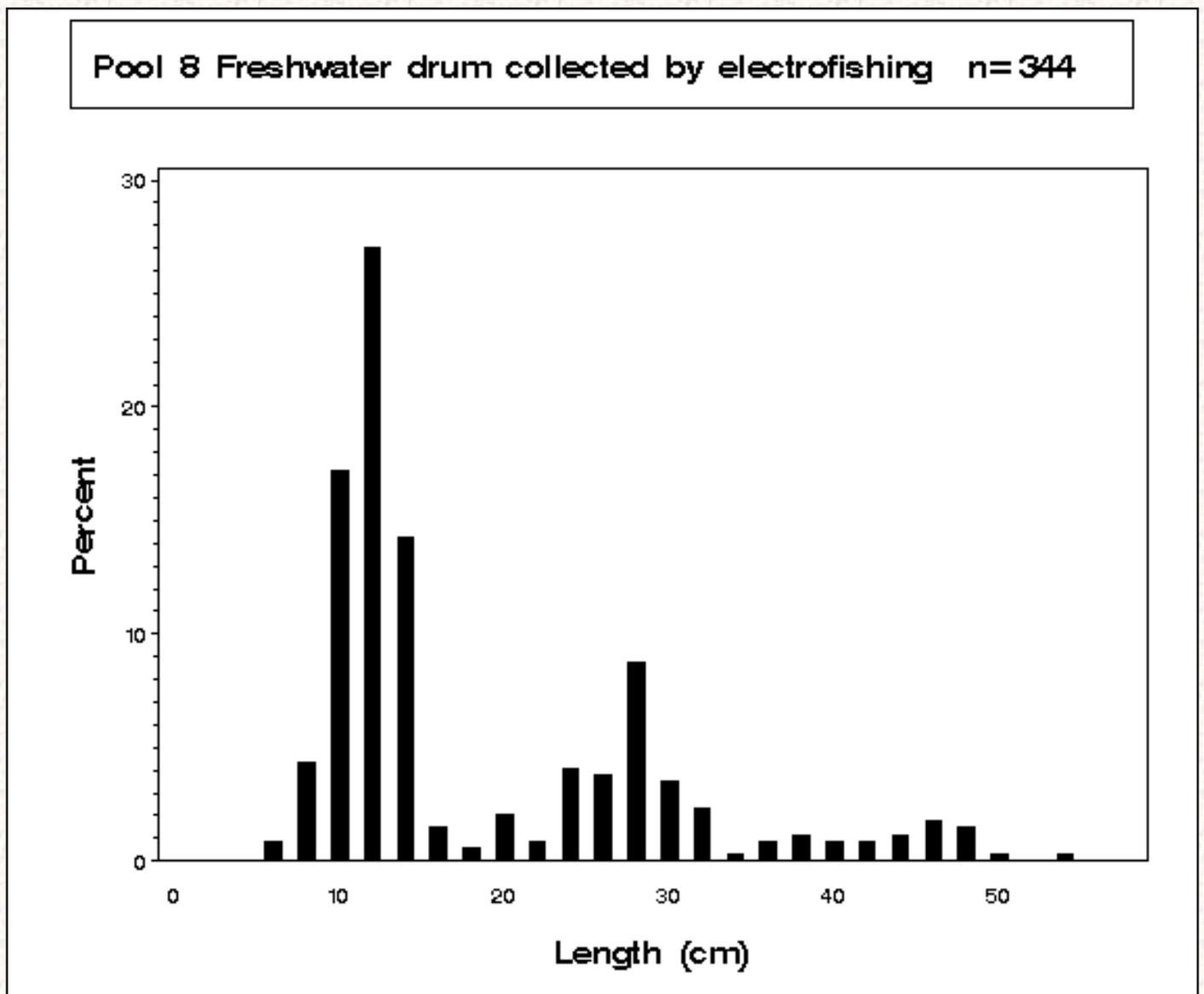
**Figure 17.2** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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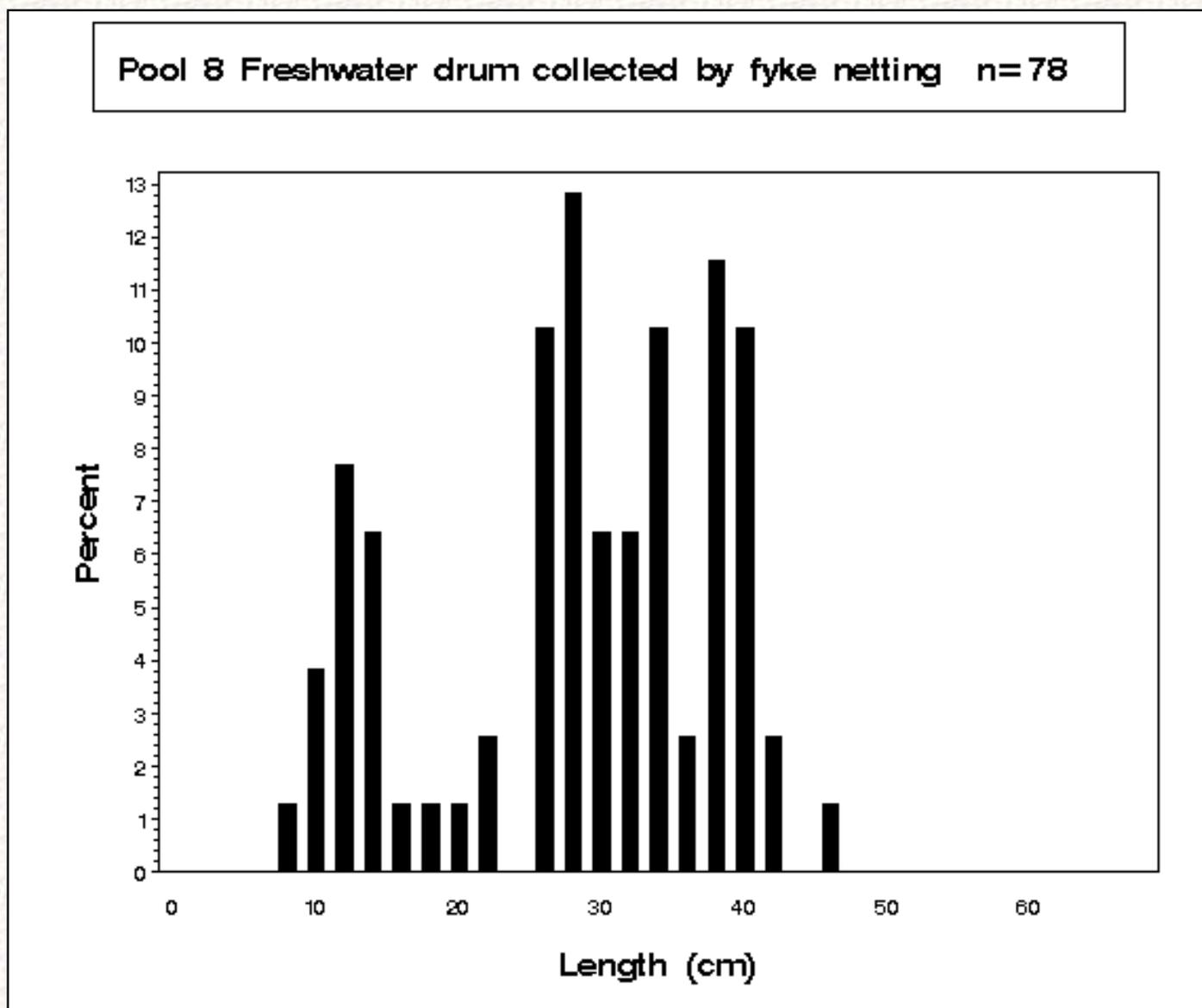
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**Figure 18.2** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Pool 8 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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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 2001. [Click here](#) to view this species' length distributions in all study reaches.



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## Pool 13, Upper Mississippi River 2001 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 2001. 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](#)).
- 46,624 fish were collected representing 66 species and 1 hybrid ([Table 3.3](#)). This total includes 167 unidentified buffalo (*Ictiobus* sp.) less than 150 mm long and 8 unidentified redhorse (*Moxostoma* sp.).
- The LTRMP species total for Pool 13 before the 2001 season was 84; one new species was collected: freckled madtom (1) ([Table 3.3](#)).
- Four bluntnose darters and one freckled madtom were collected that are Iowa-listed endangered species ([Table 3.3](#)).
- Four western sand darters were collected that are Iowa-listed threatened species ([Table 3.3](#)).
- Twenty-three 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 black buffalo, central mudminnow, fathead minnow, goldeye, green sunfish, Mississippi silvery minnow, quillback, sand shiner, slenderhead darter, smallmouth bass, stonecat, and white sucker ([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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*Last updated on September 10, 2004*

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**Table 2.3** Allocation of fish sampling effort among strata in Pool 13 of the Upper Mississippi River during 2001. 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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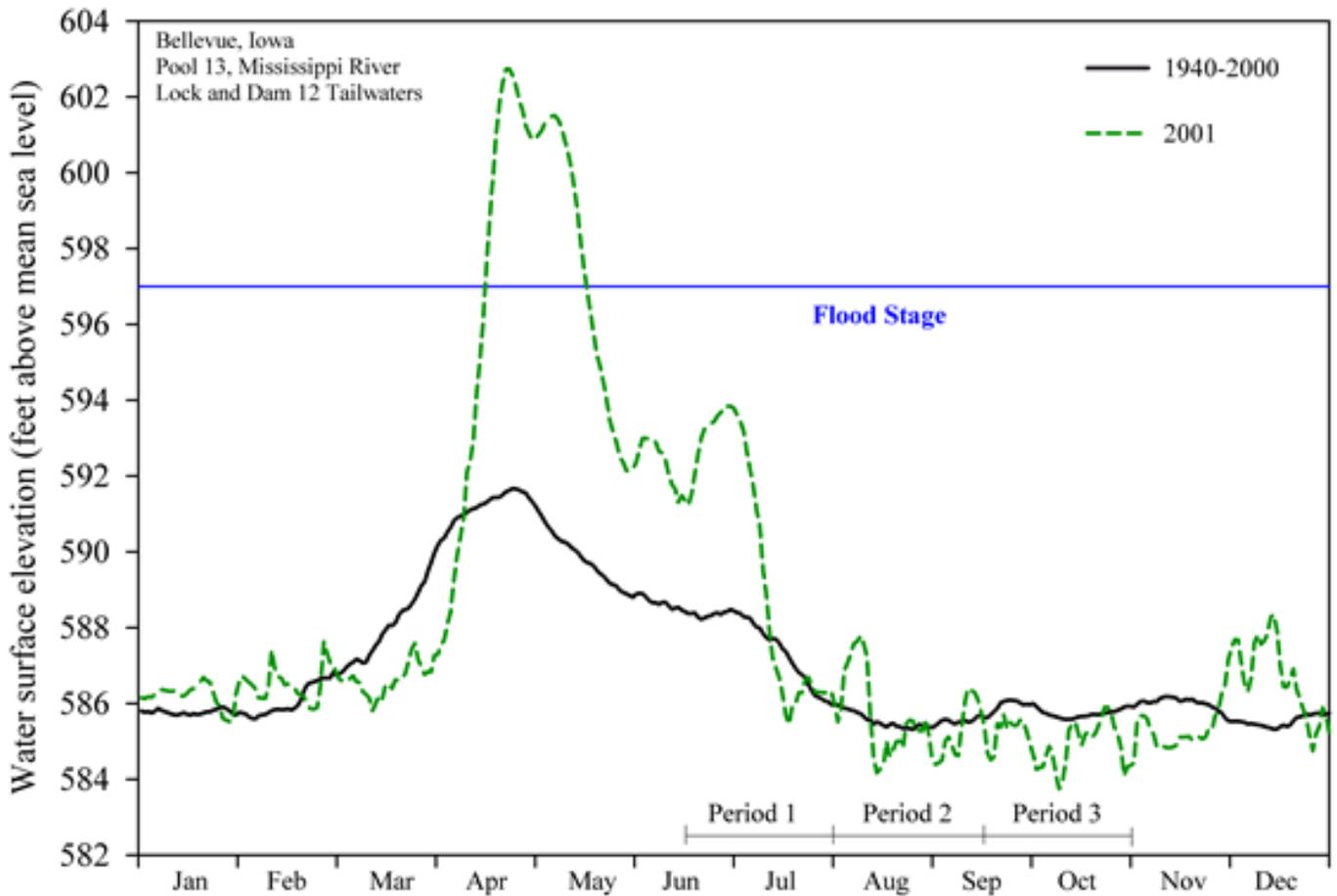


Figure 1.3. Daily water surface elevation from Lock and Dam 12 for Pool 13, Upper Mississippi River, during 2001 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski 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 2001. 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	T	TOTAL
1	Silver lamprey	<i>Ichthyomyzon unicuspis</i>	1	-	-	-	-	-	-	-	-	-	-	1
2	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	2	-	67	69
3	Longnose gar	<i>Lepisosteus osseus</i>	4	15	23	6	3	-	1	1	-	-	-	53
4	Shortnose gar	<i>L. platostomus</i>	5	17	158	177	36	5	7	-	-	-	-	405
5	Bowfin	<i>Amia calva</i>	3	-	72	5	17	1	-	-	-	-	-	98
6	Goldeye	<i>Hiodon alosoides</i>	1	-	-	-	-	-	-	-	-	-	-	1
7	Mooneye	<i>H. tergisus</i>	4	1	-	1	-	-	-	-	1	-	-	7
8	Gizzard shad	<i>Dorosoma cepedianum</i>	1276	553	49	31	137	26	130	-	1	-	-	2203
9	Spotfin shiner	<i>Cyprinella spiloptera</i>	235	93	-	-	255	18	276	1	-	-	-	878
10	Common carp	<i>Cyprinus carpio</i>	141	43	66	67	81	163	10	7	7	-	-	585
11	Mississippi silvery minnow	<i>Hybognathus nuchalis</i>	-	1	-	-	1	-	3	-	-	-	-	5
12	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	-	-	-	1	-	-	-	-	-	59	60
13	Silver chub	<i>M.storeriana</i>	15	72	-	1	2	2	39	1	-	-	-	132
14	Golden shiner	<i>Notemigonus crysoleucas</i>	81	2	6	41	59	10	3	-	-	-	-	202
15	Emerald shiner	<i>Notropis atherinoides</i>	1734	429	-	-	214	11	1032	-	-	-	-	3420
16	River shiner	<i>N. blennius</i>	255	478	-	-	342	1	3066	-	-	-	-	4142
17	Spottail shiner	<i>N. hudsonius</i>	19	14	-	-	181	40	50	-	-	-	-	304
18	Sand shiner	<i>N. stramineus</i>	-	-	-	-	-	-	2	-	-	-	-	2
19	Mimic shiner	<i>N. volucellus</i>	265	1920	-	-	5219	77	2039	-	-	-	2	9522
20	Pugnose minnow	<i>Opsopoeodus emiliae</i>	4	-	-	-	10	7	2	-	-	-	-	23
21	Fathead minnow	<i>Pimephales promelas</i>	-	-	-	-	1	-	-	-	-	-	-	1

22	Bullhead minnow	<i>P. vigilax</i>	83	129	-	-	635	91	811	-	-	-	-	1749
23	Creek chub	<i>Semotilus atromaculatus</i>	-	-	-	-	1	-	-	-	-	-	-	1
24	River carpsucker	<i>Carpionodes carpio</i>	18	9	8	4	7	-	3	-	2	-	-	51
25	Quillback	<i>C. cyprinus</i>	1	1	3	-	-	-	-	-	1	-	-	6
26	Highfin carpsucker	<i>C. velifer</i>	5	2	-	-	-	-	-	-	-	-	-	7
27	White sucker	<i>Catostomus commersoni</i>	-	-	1	-	-	-	-	-	-	-	-	1
28	Smallmouth buffalo	<i>Ictiobus bubalus</i>	2	8	3	-	-	-	-	25	164	-	-	202
29	Bigmouth buffalo	<i>I. cyprinellus</i>	12	2	2	-	2	-	3	-	1	-	-	22
30	Black buffalo	<i>I. niger</i>	-	2	1	-	-	-	-	-	-	-	-	3
31	Unidentified buffalo	<i>Ictiobus</i> sp.	35	31	9	16	38	6	32	-	-	-	-	167
32	Spotted sucker	<i>Minytrema melanops</i>	19	3	24	11	-	1	-	-	-	-	-	58
33	Golden redhorse	<i>Moxostoma erythrurum</i>	4	2	-	-	-	-	-	-	-	-	-	6
34	Shorthead redhorse	<i>M. macrolepidotum</i>	41	22	8	8	-	-	-	3	8	-	-	90
35	Unidentified redhorse	<i>Moxostoma</i> sp.	-	1	-	-	6	-	1	-	-	-	-	8
36	Black bullhead	<i>Ameiurus melas</i>	-	-	1	-	3	-	-	-	-	-	-	4
37	Yellow bullhead	<i>A. natalis</i>	-	-	11	-	4	-	-	-	-	-	-	15
38	Channel catfish	<i>Ictalurus punctatus</i>	25	23	3	4	11	2	10	251	21	-	140	490
39	Stonecat	<i>Noturus flavus</i>	-	1	-	-	1	-	-	-	-	-	6	8
40	Tadpole madtom	<i>N. gyrinus</i>	4	1	-	-	70	20	22	-	-	-	-	117
41	Freckled madtom	<i>N. nocturnus</i>	-	-	-	-	-	-	-	-	-	-	1	1
42	Flathead catfish	<i>Pylodictis olivaris</i>	2	18	7	3	5	-	-	8	8	-	17	68
43	Northern pike	<i>Esox lucius</i>	8	2	16	1	3	-	3	-	5	-	-	38
44	Central mudminnow	<i>Umbra limi</i>	-	-	-	-	2	-	-	-	-	-	-	2
45	Brook silverside	<i>Labidesthes sicculus</i>	31	27	-	-	5	-	98	-	-	-	-	161
46	White bass	<i>Morone chrysops</i>	42	259	450	53	115	16	40	6	7	-	-	988
47	Yellow bass	<i>M. mississippiensis</i>	2	8	4	1	-	-	-	-	-	-	-	15
48	Rock bass	<i>Ambloplites rupestris</i>	7	28	3	1	9	1	-	-	1	-	-	50
49	Green sunfish	<i>Lepomis cyanellus</i>	-	6	-	-	8	-	1	-	-	-	-	15
50	Pumpkinseed	<i>L. gibbosus</i>	27	6	96	134	200	44	90	20	1	-	-	618
51	Warmouth	<i>L. gulosus</i>	2	3	5	-	2	4	2	-	-	-	-	18
52	Orangespotted sunfish	<i>L. humilis</i>	68	110	11	4	351	21	81	-	-	-	-	646
53	Bluegill	<i>L. macrochirus</i>	266	346	800	802	4390	7455	496	12	13	-	1	14581

54	Pumpkinseed x bluegill	<i>L. gibbosus x macrochirus</i>	1	-	-	-	-	-	-	-	-	-	-	1
55	Smallmouth bass	<i>Micropterus dolomieu</i>	17	64	-	1	-	-	1	-	-	-	-	83
56	Largemouth bass	<i>M. salmoides</i>	261	216	66	13	157	11	241	1	-	-	-	966
57	White crappie	<i>Pomoxis annularis</i>	33	17	235	70	10	96	1	1	4	-	-	467
58	Black crappie	<i>P. nigromaculatus</i>	40	28	462	169	264	548	-	1	8	-	-	1520
59	Western sand darter	<i>Ammocrypta clara</i>	-	-	-	-	-	-	3	-	-	-	1	4
60	Mud darter	<i>Etheostoma asprigene</i>	2	2	-	-	18	25	2	-	-	-	-	49
61	Bluntnose darter	<i>E. chlorosomum</i>	-	-	-	-	4	-	-	-	-	-	-	4
62	Johnny darter	<i>E. nigrum</i>	5	-	-	-	147	1	130	-	-	-	-	283
63	Yellow perch	<i>Perca flavescens</i>	26	1	2	58	1	19	5	-	-	-	-	112
64	Logperch	<i>Percina caprodes</i>	11	19	-	-	106	1	4	-	-	-	-	141
65	Slenderhead darter	<i>P. phoxocephala</i>	-	-	-	-	2	-	3	-	-	-	-	5
66	River darter	<i>P. shumardi</i>	1	-	-	-	7	-	2	-	-	-	-	10
67	Sauger	<i>Stizostedion canadense</i>	51	177	6	20	6	5	4	1	-	-	1	271
68	Walleye	<i>S. vitreum</i>	14	95	4	3	11	1	16	-	-	-	1	145
69	Freshwater drum	<i>Aplodinotus grunniens</i>	17	126	17	15	5	1	20	10	25	-	8	244
			<b>5226</b>	<b>5433</b>	<b>2632</b>	<b>1720</b>	<b>13165</b>	<b>8730</b>	<b>8785</b>	<b>349</b>	<b>280</b>	<b>0</b>	<b>304</b>	<b>46624</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 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.	

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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 2001. 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>	0.00				0.11	
	(0.00)				(0.11)	
<b>Longnose gar</b>	0.13	0.04		0.08		0.33
	(0.09)	(0.04)		(0.08)		(0.33)
<b>Shortnose gar</b>	0.07	0.08	0.08		0.11	0.17
	(0.05)	(0.06)	(0.08)		(0.11)	(0.17)
<b>Bowfin</b>	0.04	0.13				
	(0.02)	(0.07)				
<b>Goldeye</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Mooneye</b>	0.04		0.08	0.08	0.22	
	(0.03)		(0.08)	(0.08)	(0.22)	
<b>Gizzard shad</b>	23.89	36.08	1.50	29.92	1.89	2.67

	(6.94)	(14.32)	(0.83)	(13.55)	(0.90)	(1.71)
<b>Spotfin shiner</b>	7.62	1.75	0.67	3.83	0.78	22.00
	(2.67)	(0.57)	(0.31)	(1.44)	(0.57)	(10.30)
<b>Common carp</b>	2.50	3.46	1.08	1.92	0.89	2.33
	(0.55)	(1.10)	(0.57)	(0.54)	(0.35)	(1.41)
<b>Silver chub</b>	0.25	0.46		0.25	0.11	
	(0.11)	(0.26)		(0.18)	(0.11)	
<b>Golden shiner</b>	0.89	2.38	1.92	0.08		
	(0.43)	(1.28)	(1.14)	(0.08)		
<b>Emerald shiner</b>	56.01	10.25	5.08	37.00	7.78	152.17
	(29.23)	(4.05)	(2.24)	(14.31)	(3.58)	(113.28)
<b>River shiner</b>	5.61	3.75	2.17	10.50	0.44	1.50
	(1.79)	(1.70)	(1.04)	(4.54)	(0.34)	(0.72)
<b>Spottail shiner</b>	0.21	0.58	0.42			
	(0.10)	(0.30)	(0.19)			
<b>Mimic shiner</b>	6.78	4.67	0.42	7.75		9.17
	(2.13)	(3.45)	(0.34)	(3.34)		(5.11)
<b>Pugnose minnow</b>	0.04	0.13	0.08			
	(0.02)	(0.07)	(0.08)			
<b>Bullhead minnow</b>	1.39	1.75	1.33	1.00	0.44	1.50
	(0.35)	(0.77)	(1.08)	(0.46)	(0.34)	(0.62)
<b>River carpsucker</b>	0.31	0.58	0.08	0.08		0.33
	(0.11)	(0.21)	(0.08)	(0.08)		(0.33)

<b>Quillback</b>	0.03			0.08		
	(0.03)			(0.08)		
<b>Highfin carpsucker</b>	0.12	0.08		0.25		
	(0.07)	(0.06)		(0.18)		
<b>Smallmouth buffalo</b>	0.03	0.08				
	(0.02)	(0.06)				
<b>Bigmouth buffalo</b>	0.17	0.42	0.08	0.08		
	(0.10)	(0.28)	(0.08)	(0.08)		
<b>Unidentified buffalo</b>	0.45	1.08	0.58	0.08		0.17
	(0.21)	(0.60)	(0.42)	(0.08)		(0.17)
<b>Spotted sucker</b>	0.26	0.79				
	(0.10)	(0.31)				
<b>Golden redhorse</b>	0.04	0.13			0.11	
	(0.03)	(0.09)			(0.11)	
<b>Shorthead redhorse</b>	0.29	0.21	0.08	0.42	3.22	0.17
	(0.10)	(0.08)	(0.08)	(0.23)	(1.18)	(0.17)
<b>Channel catfish</b>	0.55	0.50		0.58	0.22	0.67
	(0.18)	(0.23)		(0.26)	(0.15)	(0.49)
<b>Tadpole madtom</b>	0.02	0.04	0.25			
	(0.02)	(0.04)	(0.18)			
<b>Flathead catfish</b>	0.00		0.08		0.11	
	(0.00)		(0.08)		(0.11)	
<b>Northern pike</b>	0.27	0.04	0.08			1.00

	(0.25)	(0.04)	(0.08)			(1.00)
<b>Brook silverside</b>	0.38	0.17	1.67	0.25		0.67
	(0.14)	(0.13)	(1.12)	(0.18)		(0.42)
<b>White bass</b>	0.88	0.67	0.42	1.17	0.22	0.83
	(0.23)	(0.31)	(0.42)	(0.47)	(0.15)	(0.40)
<b>Yellow bass</b>	0.04	0.04		0.08		
	(0.03)	(0.04)		(0.08)		
<b>Rock bass</b>	0.15	0.13	0.08	0.17		0.17
	(0.09)	(0.13)	(0.08)	(0.17)		(0.17)
<b>Pumpkinseed</b>	0.26	0.33	1.33	0.17		0.17
	(0.08)	(0.14)	(0.92)	(0.11)		(0.17)
<b>Warmouth</b>	0.03	0.08				
	(0.03)	(0.08)				
<b>Orangespotted sunfish</b>	0.93	2.79	0.08			
	(0.25)	(0.74)	(0.08)			
<b>Bluegill</b>	3.68	9.25	2.33	0.58	0.22	1.17
	(0.81)	(2.38)	(1.05)	(0.26)	(0.22)	(0.65)
<b>Pumpkinseed x bluegill</b>	0.04					0.17
	(0.04)					(0.17)
<b>Smallmouth bass</b>	0.42		0.17	1.00	0.22	0.17
	(0.13)		(0.17)	(0.33)	(0.15)	(0.17)
<b>Largemouth bass</b>	4.16	6.21	3.67	3.67	1.11	2.33
	(0.80)	(1.00)	(1.15)	(1.81)	(0.59)	(1.05)

<b>White crappie</b>	0.49	1.33				0.17
	(0.17)	(0.48)				(0.17)
<b>Black crappie</b>	0.66	1.46	0.08			0.67
	(0.23)	(0.49)	(0.08)			(0.67)
<b>Mud darter</b>	0.04	0.04		0.08		
	(0.03)	(0.04)		(0.08)		
<b>Johnny darter</b>	0.05	0.13	0.17			
	(0.03)	(0.09)	(0.11)			
<b>Yellow perch</b>	0.40	0.92	0.08	0.25		
	(0.23)	(0.65)	(0.08)	(0.25)		
<b>Logperch</b>	0.29	0.13		0.67		
	(0.16)	(0.07)		(0.41)		
<b>River darter</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Sauger</b>	0.90	1.50	0.17	0.83	0.11	0.33
	(0.26)	(0.68)	(0.11)	(0.32)	(0.11)	(0.21)
<b>Walleye</b>	0.25	0.33		0.25	0.22	0.17
	(0.09)	(0.19)		(0.13)	(0.15)	(0.17)
<b>Freshwater drum</b>	0.26	0.54	0.17	0.08		0.17
	(0.09)	(0.23)	(0.17)	(0.08)		(0.17)

**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 2001. 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>	0.29	0.33	0.33	0.17
	(0.15)	(0.33)	(0.21)	(0.17)
<b>Shortnose gar</b>	0.61	1.00	0.33	0.50
	(0.31)	(0.82)	(0.21)	(0.34)
<b>Mooneye</b>	0.04			0.17
	(0.04)			(0.17)
<b>Gizzard shad</b>	13.61	12.17	11.00	19.33
	(3.63)	(4.88)	(4.16)	(10.48)
<b>Spotfin shiner</b>	2.15	0.50	1.33	5.50
	(0.64)	(0.22)	(0.80)	(2.09)
<b>Common carp</b>	2.12	2.00	1.17	3.67
	(0.51)	(0.37)	(0.48)	(1.73)
<b>Silver chub</b>	1.09	0.33	1.50	1.50

	(0.47)	(0.33)	(0.56)	(1.50)
<b>Emerald shiner</b>	11.82	12.17	4.67	21.83
	(2.14)	(3.77)	(1.87)	(5.77)
<b>River shiner</b>	1.49	0.67	2.00	1.83
	(0.45)	(0.42)	(1.03)	(0.60)
<b>Spottail shiner</b>	0.72	1.50	0.50	
	(0.28)	(0.56)	(0.50)	
<b>Mimic shiner</b>	8.57	4.33	11.50	9.83
	(2.83)	(2.54)	(6.42)	(3.85)
<b>Bullhead minnow</b>	5.72	6.67	6.50	3.33
	(1.51)	(3.56)	(1.95)	(1.58)
<b>River carpsucker</b>	0.37	0.50	0.17	0.50
	(0.16)	(0.34)	(0.17)	(0.34)
<b>Highfin carpsucker</b>	0.06	0.17		
	(0.06)	(0.17)		
<b>Smallmouth buffalo</b>	0.28	0.50	0.17	0.17
	(0.14)	(0.34)	(0.17)	(0.17)
<b>Bigmouth buffalo</b>	0.09			0.33
	(0.09)			(0.33)
<b>Black buffalo</b>	0.11		0.17	0.17
	(0.08)		(0.17)	(0.17)
<b>Unidentified buffalo</b>	1.71	4.17	0.33	0.50
	(0.68)	(1.87)	(0.33)	(0.50)

<b>Spotted sucker</b>	0.11		0.17	0.17
	(0.08)		(0.17)	(0.17)
<b>Golden redhorse</b>	0.09			0.33
	(0.09)			(0.33)
<b>Shorthead redhorse</b>	1.11	1.00	0.83	1.67
	(0.40)	(0.82)	(0.40)	(0.88)
<b>Unidentified redhorse</b>	0.06		0.17	
	(0.06)		(0.17)	
<b>Channel catfish</b>	1.10	0.67	1.67	0.83
	(0.37)	(0.49)	(0.71)	(0.65)
<b>Stonecat</b>	0.06	0.17		
	(0.06)	(0.17)		
<b>Tadpole madtom</b>	0.06	0.17		
	(0.06)	(0.17)		
<b>Flathead catfish</b>	0.23	0.17		0.67
	(0.11)	(0.17)		(0.33)
<b>Northern pike</b>	0.06	0.17		
	(0.06)	(0.17)		
<b>Brook silverside</b>	1.12	1.83	0.67	0.83
	(0.42)	(0.95)	(0.49)	(0.65)
<b>White bass</b>	6.62	3.67	11.50	3.33
	(1.13)	(1.56)	(2.26)	(1.76)
<b>Yellow bass</b>	0.41	1.17		

	(0.17)	(0.48)		
<b>Rock bass</b>	0.04			0.17
	(0.04)			(0.17)
<b>Pumpkinseed</b>	0.35	0.83	0.17	
	(0.30)	(0.83)	(0.17)	
<b>Warmouth</b>	0.17	0.50		
	(0.17)	(0.50)		
<b>Orangespotted sunfish</b>	4.37	10.17	0.67	2.17
	(1.23)	(3.43)	(0.49)	(0.95)
<b>Bluegill</b>	14.38	28.67	4.33	10.33
	(3.17)	(8.38)	(1.99)	(3.78)
<b>Smallmouth bass</b>	0.37	0.50	0.17	0.50
	(0.16)	(0.34)	(0.17)	(0.34)
<b>Largemouth bass</b>	6.89	13.33	3.67	3.17
	(1.84)	(4.81)	(1.89)	(1.01)
<b>White crappie</b>	0.64	0.83	0.33	0.83
	(0.21)	(0.40)	(0.21)	(0.48)
<b>Black crappie</b>	0.99	1.83	0.33	0.83
	(0.34)	(0.79)	(0.21)	(0.65)
<b>Mud darter</b>	0.12	0.33		
	(0.12)	(0.33)		
<b>Yellow perch</b>	0.06	0.17		
	(0.06)	(0.17)		

<b>Logperch</b>	0.25	0.17	0.50	
	(0.20)	(0.17)	(0.50)	
<b>Sauger</b>	4.44	2.67	6.33	4.00
	(1.39)	(1.15)	(2.53)	(3.42)
<b>Walleye</b>	2.04	1.33	3.50	0.83
	(0.53)	(0.80)	(1.12)	(0.54)
<b>Freshwater drum</b>	3.05	5.67	2.33	0.67
	(1.67)	(4.67)	(0.95)	(0.33)

**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/2001/pool\\_13/tb3\\_\\_ia0004.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/pool_13/tb3__ia0004.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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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 2001. 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
Longnose gar	0.71	0.79	
	(0.47)	(0.53)	
Shortnose gar	4.32	4.50	2.54
	(0.82)	(0.91)	(1.03)
Bowfin	2.15	2.36	0.16
	(0.55)	(0.61)	(0.16)
Gizzard shad	0.86	0.63	3.00
	(0.29)	(0.21)	(2.35)
Common carp	1.16	0.94	3.28
	(0.30)	(0.29)	(1.46)
Golden shiner	0.16	0.17	0.10
	(0.13)	(0.14)	(0.10)
River carpsucker	0.23	0.25	0.10

	(0.10)	(0.11)	(0.10)
<b>Quillback</b>	0.05	0.03	0.20
	(0.04)	(0.03)	(0.20)
<b>White sucker</b>	0.03	0.03	
	(0.03)	(0.03)	
<b>Smallmouth buffalo</b>	0.09	0.10	
	(0.07)	(0.08)	
<b>Bigmouth buffalo</b>	0.06	0.07	
	(0.04)	(0.05)	
<b>Black buffalo</b>	0.03	0.04	
	(0.03)	(0.04)	
<b>Unidentified buffalo</b>	0.25	0.25	0.19
	(0.14)	(0.16)	(0.19)
<b>Spotted sucker</b>	0.79	0.87	
	(0.50)	(0.56)	
<b>Shorthead redhorse</b>	0.24	0.25	0.09
	(0.14)	(0.16)	(0.09)
<b>Black bullhead</b>	0.03	0.03	
	(0.03)	(0.03)	
<b>Yellow bullhead</b>	0.27	0.27	0.25
	(0.25)	(0.27)	(0.18)
<b>Channel catfish</b>	0.05	0.03	0.17
	(0.03)	(0.03)	(0.17)

<b>Flathead catfish</b>	0.22	0.24	
	(0.09)	(0.10)	
<b>Northern pike</b>	0.34	0.31	0.59
	(0.12)	(0.12)	(0.26)
<b>White bass</b>	13.63	15.05	0.19
	(5.04)	(5.60)	(0.13)
<b>Yellow bass</b>	0.12	0.13	
	(0.09)	(0.10)	
<b>Rock bass</b>	0.05	0.03	0.17
	(0.03)	(0.03)	(0.11)
<b>Pumpkinseed</b>	1.11	0.52	6.72
	(0.32)	(0.21)	(2.71)
<b>Warmouth</b>	0.10	0.10	0.17
	(0.06)	(0.07)	(0.11)
<b>Orangespotted sunfish</b>	0.35	0.39	
	(0.14)	(0.15)	
<b>Bluegill</b>	21.29	22.16	13.05
	(6.07)	(6.72)	(4.55)
<b>Largemouth bass</b>	1.67	1.72	1.21
	(0.79)	(0.88)	(0.73)
<b>White crappie</b>	7.29	8.06	
	(2.46)	(2.73)	
<b>Black crappie</b>	14.29	15.77	0.26

	(3.70)	(4.11)	(0.19)
<b>Yellow perch</b>	0.04	0.04	0.08
	(0.03)	(0.04)	(0.08)
<b>Sauger</b>	0.15	0.14	0.20
	(0.08)	(0.08)	(0.20)
<b>Walleye</b>	0.10	0.11	0.08
	(0.05)	(0.06)	(0.08)
<b>Freshwater drum</b>	0.54	0.60	
	(0.24)	(0.26)	

**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/2001/pool\\_13/tb3\\_\\_ia0005.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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
Longnose gar	0.12	0.17	0.09
	(0.06)	(0.08)	(0.09)
Shortnose gar	3.10	5.11	1.93
	(1.25)	(2.30)	(1.46)
Bowfin	0.06	0.16	
	(0.04)	(0.10)	
Mooneye	0.01	0.03	
	(0.01)	(0.03)	
Gizzard shad	0.81	0.69	0.88
	(0.35)	(0.29)	(0.53)
Common carp	2.41	1.08	3.18
	(1.36)	(0.51)	(2.13)
Silver chub	0.05		0.09

	(0.05)		(0.09)
<b>Golden shiner</b>	0.52	1.27	0.08
	(0.28)	(0.75)	(0.08)
<b>River carpsucker</b>	0.13	0.07	0.17
	(0.07)	(0.05)	(0.11)
<b>Unidentified buffalo</b>	0.20	0.55	
	(0.08)	(0.22)	
<b>Spotted sucker</b>	0.17	0.31	0.08
	(0.08)	(0.18)	(0.08)
<b>Shorthead redhorse</b>	0.27	0.15	0.35
	(0.12)	(0.10)	(0.17)
<b>Channel catfish</b>	0.05	0.14	
	(0.03)	(0.08)	
<b>Flathead catfish</b>	0.04	0.11	
	(0.03)	(0.08)	
<b>Northern pike</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>White bass</b>	2.48	0.36	3.71
	(1.22)	(0.23)	(1.92)
<b>Yellow bass</b>	0.01	0.04	
	(0.01)	(0.04)	
<b>Rock bass</b>	0.05		0.08
	(0.05)		(0.08)

<b>Pumpkinseed</b>	2.41	3.75	1.64
	(0.84)	(1.65)	(0.92)
<b>Orangespotted sunfish</b>	0.05	0.13	
	(0.02)	(0.06)	
<b>Bluegill</b>	11.88	24.77	4.37
	(3.14)	(7.88)	(1.90)
<b>Smallmouth bass</b>	0.01	0.04	
	(0.01)	(0.04)	
<b>Largemouth bass</b>	0.37	0.26	0.44
	(0.28)	(0.10)	(0.44)
<b>White crappie</b>	0.83	2.24	
	(0.44)	(1.19)	
<b>Black crappie</b>	2.36	5.22	0.70
	(0.64)	(1.59)	(0.43)
<b>Yellow perch</b>	0.74	1.87	0.09
	(0.35)	(0.95)	(0.09)
<b>Sauger</b>	0.28	0.60	0.09
	(0.14)	(0.35)	(0.09)
<b>Walleye</b>	0.17		0.26
	(0.11)		(0.18)
<b>Freshwater drum</b>	0.45	0.31	0.53
	(0.18)	(0.11)	(0.27)

**Sampling strata:**

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

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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 2001. 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
Longnose gar	0.03			0.08	0.11	
	(0.03)			(0.08)	(0.11)	
Shortnose gar	0.43	1.00	0.25	0.23	0.12	
	(0.12)	(0.27)	(0.18)	(0.23)	(0.12)	
Bowfin	0.19	0.58			0.12	
	(0.06)	(0.17)			(0.12)	
Gizzard shad	1.51	4.34		0.15	0.23	
	(0.87)	(2.60)		(0.15)	(0.15)	
Spotfin shiner	2.42	3.30	2.95	2.13	4.68	1.57
	(0.63)	(1.42)	(1.43)	(0.96)	(3.05)	(0.86)
Common carp	0.86	2.33	1.44	0.08		
	(0.68)	(2.06)	(1.26)	(0.08)		
Mississippi silvery minnow	0.00				0.11	

	(0.00)				(0.11)	
<b>Speckled chub</b>	0.00				0.11	
	(0.00)				(0.11)	
<b>Silver chub</b>	0.00				0.12	
	(0.00)				(0.12)	
<b>Golden shiner</b>	0.39	0.83	3.04		0.13	
	(0.14)	(0.30)	(3.04)		(0.13)	
<b>Emerald shiner</b>	2.03	2.12	1.01	2.61	4.86	1.15
	(0.65)	(0.76)	(0.63)	(1.56)	(3.21)	(0.62)
<b>River shiner</b>	3.26	2.53	6.36	5.43	1.61	0.63
	(1.56)	(1.11)	(4.53)	(4.05)	(0.61)	(0.63)
<b>Spottail shiner</b>	2.89	1.68	0.17	4.86	0.24	2.04
	(1.94)	(1.47)	(0.11)	(4.86)	(0.24)	(2.04)
<b>Mimic shiner</b>	103.16	39.67	6.43	61.75	51.83	261.84
	(69.19)	(21.87)	(3.96)	(57.13)	(35.40)	(258.20)
<b>Pugnose minnow</b>	0.20	0.17		0.16		0.33
	(0.11)	(0.07)		(0.16)		(0.33)
<b>Fathead minnow</b>	0.03			0.08		
	(0.03)			(0.08)		
<b>Bullhead minnow</b>	7.17	9.85	0.70	9.29	3.09	1.52
	(2.33)	(4.25)	(0.52)	(4.92)	(1.16)	(1.33)
<b>Creek chub</b>	0.03			0.08		
	(0.03)			(0.08)		

<b>River carpsucker</b>	0.08	0.10	0.17		0.12	0.17
	(0.05)	(0.10)	(0.12)		(0.12)	(0.17)
<b>Bigmouth buffalo</b>	0.02	0.07				
	(0.02)	(0.05)				
<b>Unidentified buffalo</b>	0.57	1.01	0.08	0.27	0.24	0.50
	(0.20)	(0.42)	(0.08)	(0.20)	(0.16)	(0.50)
<b>Unidentified redhorse</b>	0.07	0.21				
	(0.07)	(0.21)				
<b>Black bullhead</b>	0.04	0.11				
	(0.03)	(0.11)				
<b>Yellow bullhead</b>	0.05	0.15				
	(0.03)	(0.10)				
<b>Channel catfish</b>	0.11	0.14		0.17	0.55	
	(0.05)	(0.08)		(0.11)	(0.43)	
<b>Stonecat</b>	0.03			0.08		
	(0.03)			(0.08)		
<b>Tadpole madtom</b>	0.62	1.39	2.47	0.08		0.17
	(0.34)	(1.01)	(1.56)	(0.08)		(0.17)
<b>Flathead catfish</b>	0.04	0.03		0.08	0.12	
	(0.03)	(0.03)		(0.08)	(0.12)	
<b>Northern pike</b>	0.07	0.06				0.20
	(0.05)	(0.04)				(0.20)
<b>Central mudminnow</b>	0.00		0.08		0.11	

	(0.00)		(0.08)		(0.11)	
<b>Brook silverside</b>	0.04	0.11				
	(0.03)	(0.08)				
<b>White bass</b>	1.35	2.34	0.24	0.94	0.50	0.82
	(0.50)	(1.36)	(0.24)	(0.44)	(0.27)	(0.47)
<b>Rock bass</b>	0.09	0.13	0.08			0.17
	(0.05)	(0.08)	(0.08)			(0.17)
<b>Green sunfish</b>	0.08	0.10				0.19
	(0.06)	(0.10)				(0.19)
<b>Pumpkinseed</b>	1.10	1.84	12.35			0.19
	(0.71)	(1.80)	(11.20)			(0.19)
<b>Warmouth</b>	0.02	0.07				
	(0.02)	(0.05)				
<b>Orangespotted sunfish</b>	1.64	3.76	0.69	0.85	0.44	0.18
	(0.53)	(1.46)	(0.69)	(0.53)	(0.24)	(0.18)
<b>Bluegill</b>	52.88	146.24	4.16	4.40	0.99	9.24
	(35.07)	(105.36)	(1.94)	(2.64)	(0.56)	(8.62)
<b>Largemouth bass</b>	2.87	1.22	0.69	1.18	0.34	7.87
	(1.75)	(0.48)	(0.45)	(0.91)	(0.23)	(6.75)
<b>White crappie</b>	0.06	0.17			0.59	
	(0.03)	(0.09)			(0.31)	
<b>Black crappie</b>	2.85	8.54			0.98	
	(2.62)	(7.88)			(0.51)	

<b>Mud darter</b>	0.24	0.56		0.15		
	(0.14)	(0.39)		(0.15)		
<b>Bluntnose darter</b>	0.01	0.04				
	(0.01)	(0.04)				
<b>Johnny darter</b>	1.43	3.48	0.09	0.47	0.46	0.35
	(1.07)	(3.19)	(0.09)	(0.33)	(0.26)	(0.22)
<b>Yellow perch</b>	0.05					0.19
	(0.05)					(0.19)
<b>Logperch</b>	0.13			0.23	0.13	0.18
	(0.08)			(0.16)	(0.13)	(0.18)
<b>Slenderhead darter</b>	0.04	0.04		0.08		
	(0.03)	(0.04)		(0.08)		
<b>River darter</b>	0.10	0.21		0.08		
	(0.08)	(0.21)		(0.08)		
<b>Sauger</b>	0.09	0.07	0.08	0.16		
	(0.05)	(0.07)	(0.08)	(0.11)		
<b>Walleye</b>	0.06	0.17	0.18		0.10	
	(0.04)	(0.11)	(0.12)		(0.10)	
<b>Freshwater drum</b>	0.05	0.07		0.08		
	(0.03)	(0.05)		(0.08)		

**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 2001. 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>	0.10	0.13	0.08
	(0.06)	(0.10)	(0.08)
<b>Bowfin</b>	0.02	0.04	
	(0.02)	(0.04)	
<b>Gizzard shad</b>	0.56	0.68	0.49
	(0.35)	(0.43)	(0.49)
<b>Spotfin shiner</b>	0.87	0.07	1.33
	(0.84)	(0.05)	(1.33)
<b>Common carp</b>	2.79	5.20	1.39
	(1.63)	(4.01)	(1.11)
<b>Silver chub</b>	0.07	0.04	0.08
	(0.05)	(0.04)	(0.08)
<b>Golden shiner</b>	0.17	0.32	0.08

	(0.09)	(0.21)	(0.08)
<b>Emerald shiner</b>	0.46	0.11	0.67
	(0.32)	(0.06)	(0.50)
<b>River shiner</b>	0.05		0.08
	(0.05)		(0.08)
<b>Spottail shiner</b>	1.01	0.92	1.06
	(0.47)	(0.49)	(0.69)
<b>Mimic shiner</b>	3.02	0.91	4.25
	(1.48)	(0.88)	(2.29)
<b>Pugnose minnow</b>	0.09	0.23	
	(0.09)	(0.23)	
<b>Bullhead minnow</b>	3.88	0.78	5.69
	(2.01)	(0.44)	(3.17)
<b>Unidentified buffalo</b>	0.20	0.11	0.25
	(0.16)	(0.08)	(0.25)
<b>Spotted sucker</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Channel catfish</b>	0.10		0.16
	(0.10)		(0.16)
<b>Tadpole madtom</b>	0.90	0.14	1.33
	(0.42)	(0.08)	(0.66)
<b>White bass</b>	0.41	0.40	0.42
	(0.18)	(0.17)	(0.27)

<b>Rock bass</b>	0.05		0.08
	(0.05)		(0.08)
<b>Pumpkinseed</b>	0.75	1.32	0.42
	(0.27)	(0.69)	(0.15)
<b>Warmouth</b>	0.09	0.12	0.08
	(0.06)	(0.09)	(0.08)
<b>Orangespotted sunfish</b>	0.28	0.76	
	(0.11)	(0.30)	
<b>Bluegill</b>	100.25	267.89	2.59
	(78.35)	(213.10)	(1.56)
<b>Largemouth bass</b>	0.18	0.35	0.08
	(0.08)	(0.16)	(0.08)
<b>White crappie</b>	1.27	3.45	
	(0.50)	(1.37)	
<b>Black crappie</b>	7.39	20.08	
	(4.26)	(11.60)	
<b>Mud darter</b>	0.33	0.90	
	(0.30)	(0.81)	
<b>Johnny darter</b>	0.01	0.03	
	(0.01)	(0.03)	
<b>Yellow perch</b>	0.28	0.62	0.08
	(0.12)	(0.29)	(0.08)
<b>Logperch</b>	0.01	0.03	

	(0.01)	(0.03)	
<b>Sauger</b>	0.10	0.14	0.08
	(0.06)	(0.08)	(0.08)
<b>Walleye</b>	0.05		0.08
	(0.05)		(0.08)
<b>Freshwater drum</b>	0.01	0.03	
	(0.01)	(0.03)	

**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/2001/pool\\_13/tb3\\_\\_ia0008.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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>Longnose gar</b>	0.01		0.04		
	(0.01)		(0.04)		
<b>Spotfin shiner</b>	0.00				0.02
	(0.00)				(0.02)
<b>Common carp</b>	0.01				0.05
	(0.01)				(0.04)
<b>Silver chub</b>	0.00				0.02
	(0.00)				(0.02)
<b>Smallmouth buffalo</b>	0.20		0.63		0.24
	(0.12)		(0.46)		(0.16)
<b>Shorthead redhorse</b>	0.01				0.07
	(0.01)				(0.05)
<b>Channel catfish</b>	1.96	0.09	6.22	1.37	1.94

	(1.16)	(0.09)	(4.50)	(0.66)	(1.52)
<b>Flathead catfish</b>	0.09	0.08	0.12	0.05	0.05
	(0.05)	(0.08)	(0.09)	(0.05)	(0.03)
<b>White bass</b>	0.17	0.25	0.08		0.02
	(0.14)	(0.25)	(0.08)		(0.02)
<b>Pumpkinseed</b>	0.85	1.46	0.04		0.03
	(0.77)	(1.35)	(0.04)		(0.03)
<b>Bluegill</b>	0.08	0.08	0.04	0.33	0.10
	(0.05)	(0.08)	(0.04)	(0.18)	(0.07)
<b>Largemouth bass</b>	0.00				0.03
	(0.00)				(0.03)
<b>White crappie</b>	0.00				0.02
	(0.00)				(0.02)
<b>Black crappie</b>	0.00				0.02
	(0.00)				(0.02)
<b>Sauger</b>	0.00			0.06	
	(0.00)			(0.06)	
<b>Freshwater drum</b>	0.10	0.09	0.08		0.15
	(0.06)	(0.09)	(0.06)		(0.08)

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


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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 2001. 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>Shovelnose sturgeon</b>	0.00				0.02
	(0.00)				(0.02)
<b>Mooneye</b>	0.00				0.02
	(0.00)				(0.02)
<b>Gizzard shad</b>	0.05	0.09			
	(0.05)	(0.09)			
<b>River carpsucker</b>	0.01				0.05
	(0.01)				(0.03)
<b>Quillback</b>	0.00			0.06	
	(0.00)			(0.06)	
<b>Smallmouth buffalo</b>	1.12	0.76	1.45	0.95	1.87
	(0.41)	(0.57)	(0.84)	(0.16)	(0.74)
<b>Bigmouth buffalo</b>	0.05	0.09			

	(0.05)	(0.09)			
<b>Shorthead redhorse</b>	0.04		0.13	0.22	0.02
	(0.02)		(0.09)	(0.12)	(0.02)
<b>Channel catfish</b>	0.15	0.18	0.09	0.59	0.14
	(0.07)	(0.11)	(0.09)	(0.29)	(0.09)
<b>Flathead catfish</b>	0.02		0.05	0.17	0.05
	(0.01)		(0.05)	(0.12)	(0.03)
<b>Northern pike</b>	0.02				0.12
	(0.01)				(0.05)
<b>White bass</b>	0.04		0.09		0.12
	(0.02)		(0.06)		(0.08)
<b>Pumpkinseed</b>	0.05	0.08			
	(0.05)	(0.08)			
<b>Bluegill</b>	0.05		0.04	0.11	0.24
	(0.03)		(0.04)	(0.07)	(0.16)
<b>White crappie</b>	0.01				0.07
	(0.01)				(0.05)
<b>Black crappie</b>	0.01			0.16	0.07
	(0.01)			(0.16)	(0.04)
<b>Freshwater drum</b>	0.17	0.18	0.17	0.56	0.15
	(0.07)	(0.11)	(0.10)	(0.20)	(0.06)

**Sampling strata:****IMPO - Impounded, offshore****MCBU - Main channel border, unstructured**

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

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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 2001. 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
Longnose gar	0.00		0.04		
	(0.00)		(0.04)		
Shortnose gar	0.05	0.14	0.08		
	(0.02)	(0.06)	(0.08)		
Gizzard shad	1.32	2.42		1.03	0.50
	(0.36)	(0.77)		(0.65)	(0.34)
Spotfin shiner	2.40	2.53	4.00	1.22	3.75
	(0.62)	(0.98)	(1.28)	(0.27)	(2.04)
Common carp	0.08	0.14	0.13	0.03	0.08
	(0.04)	(0.11)	(0.09)	(0.03)	(0.08)
Mississippi silvery minnow	0.03	0.08			
	(0.02)	(0.06)			
Silver chub	0.36	1.08			

	(0.22)	(0.66)			
<b>Golden shiner</b>	0.04	0.06			0.08
	(0.02)	(0.04)			(0.08)
<b>Emerald shiner</b>	9.19	4.22	7.13	19.31	1.17
	(4.60)	(1.59)	(3.59)	(12.24)	(1.08)
<b>River shiner</b>	19.32	30.78	54.33	17.44	2.17
	(3.87)	(10.47)	(20.67)	(3.96)	(0.96)
<b>Spottail shiner</b>	0.47	0.81	0.25	0.33	0.25
	(0.15)	(0.39)	(0.21)	(0.20)	(0.13)
<b>Sand shiner</b>	0.00		0.08		
	(0.00)		(0.08)		
<b>Mimic shiner</b>	22.63	28.64	6.58	13.50	30.33
	(4.87)	(12.79)	(2.86)	(2.89)	(8.20)
<b>Pugnose minnow</b>	0.02	0.06			
	(0.01)	(0.04)			
<b>Bullhead minnow</b>	8.18	11.61	7.75	1.00	14.25
	(1.22)	(2.64)	(3.84)	(0.42)	(3.22)
<b>River carpsucker</b>	0.02	0.06	0.04		
	(0.01)	(0.04)	(0.04)		
<b>Bigmouth buffalo</b>	0.01	0.03	0.08		
	(0.01)	(0.03)	(0.06)		
<b>Unidentified buffalo</b>	0.40	0.50	0.13	0.03	0.83
	(0.18)	(0.22)	(0.07)	(0.03)	(0.66)

<b>Unidentified redhorse</b>	0.01	0.03			
	(0.01)	(0.03)			
<b>Channel catfish</b>	0.11	0.06		0.19	0.08
	(0.04)	(0.04)		(0.08)	(0.08)
<b>Tadpole madtom</b>	0.22	0.17	0.38		0.58
	(0.15)	(0.09)	(0.19)		(0.58)
<b>Northern pike</b>	0.03	0.08			
	(0.02)	(0.05)			
<b>Brook silverside</b>	0.92	1.22	0.54	0.97	0.50
	(0.30)	(0.56)	(0.33)	(0.59)	(0.29)
<b>White bass</b>	0.42	0.14		0.94	0.08
	(0.18)	(0.06)		(0.47)	(0.08)
<b>Green sunfish</b>	0.01	0.03			
	(0.01)	(0.03)			
<b>Pumpkinseed</b>	0.13		3.75		
	(0.07)		(1.93)		
<b>Warmouth</b>	0.00		0.08		
	(0.00)		(0.06)		
<b>Orangespotted sunfish</b>	0.85	2.00		0.03	0.67
	(0.23)	(0.64)		(0.03)	(0.36)
<b>Bluegill</b>	2.05	4.19	14.04	0.06	0.50
	(0.49)	(1.29)	(6.63)	(0.04)	(0.26)
<b>Smallmouth bass</b>	0.01			0.03	

	(0.01)			(0.03)	
<b>Largemouth bass</b>	2.14	4.58	1.92	0.25	1.75
	(0.40)	(1.00)	(0.72)	(0.12)	(0.84)
<b>White crappie</b>	0.01	0.03			
	(0.01)	(0.03)			
<b>Western sand darter</b>	0.00		0.13		
	(0.00)		(0.13)		
<b>Mud darter</b>	0.00		0.08		
	(0.00)		(0.08)		
<b>Johnny darter</b>	1.30	2.86	0.17	0.39	0.75
	(0.36)	(1.04)	(0.10)	(0.23)	(0.25)
<b>Yellow perch</b>	0.05	0.11		0.03	
	(0.03)	(0.09)		(0.03)	
<b>Logperch</b>	0.04	0.06		0.06	
	(0.02)	(0.04)		(0.04)	
<b>Slenderhead darter</b>	0.04	0.06			0.08
	(0.03)	(0.06)			(0.08)
<b>River darter</b>	0.02	0.06			
	(0.01)	(0.04)			
<b>Sauger</b>	0.05	0.08			0.08
	(0.03)	(0.06)			(0.08)
<b>Walleye</b>	0.09	0.14	0.33	0.08	
	(0.03)	(0.07)	(0.21)	(0.05)	

<b>Freshwater drum</b>	0.19	0.50		0.06	
	(0.07)	(0.20)		(0.04)	

**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/2001/pool\\_13/tb3\\_\\_ai0011.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/pool_13/tb3__ai0011.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶

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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 2001. 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	1.67
	(1.28)
Shortnose gar	1.00
	(0.63)
Gizzard shad	49.67
	(20.49)
Spotfin shiner	8.17
	(4.23)
Common carp	0.33
	(0.33)
Mississippi silvery minnow	0.17
	(0.17)
Silver chub	8.67
	(7.29)

<b>Golden shiner</b>	0.33
	(0.21)
<b>Emerald shiner</b>	32.83
	(29.11)
<b>River shiner</b>	75.17
	(70.21)
<b>Spottail shiner</b>	0.33
	(0.33)
<b>Mimic shiner</b>	294.33
	(270.56)
<b>Bullhead minnow</b>	5.00
	(3.10)
<b>River carpsucker</b>	0.33
	(0.33)
<b>Quillback</b>	0.17
	(0.17)
<b>Highfin carpsucker</b>	0.17
	(0.17)
<b>Smallmouth buffalo</b>	0.50
	(0.22)
<b>Unidentified buffalo</b>	0.17
	(0.17)
<b>Spotted sucker</b>	0.17

	(0.17)
<b>Shorthead redhorse</b>	0.17
	(0.17)
<b>Channel catfish</b>	0.67
	(0.33)
<b>Flathead catfish</b>	2.17
	(0.98)
<b>Northern pike</b>	0.17
	(0.17)
<b>Brook silverside</b>	1.17
	(0.83)
<b>White bass</b>	24.67
	(6.83)
<b>Yellow bass</b>	0.17
	(0.17)
<b>Rock bass</b>	4.50
	(1.23)
<b>Green sunfish</b>	1.00
	(0.52)
<b>Orangespotted sunfish</b>	5.33
	(2.80)
<b>Bluegill</b>	14.33
	(4.45)

<b>Smallmouth bass</b>	9.50
	(3.11)
<b>Largemouth bass</b>	15.83
	(7.37)
<b>White crappie</b>	0.83
	(0.31)
<b>Black crappie</b>	1.67
	(0.42)
<b>Logperch</b>	2.50
	(1.73)
<b>Sauger</b>	16.50
	(7.99)
<b>Walleye</b>	10.17
	(3.94)
<b>Freshwater drum</b>	12.33
	(9.07)

**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 2001. 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	0.16
	(0.16)
Shortnose gar	0.16
	(0.16)
Gizzard shad	1.64
	(0.98)
Spotfin shiner	7.98
	(4.50)
Silver chub	0.16
	(0.16)
Emerald shiner	9.31
	(9.31)
River shiner	16.65
	(14.60)

<b>Spottail shiner</b>	8.66
	(8.47)
<b>Mimic shiner</b>	183.16
	(172.66)
<b>Pugnose minnow</b>	0.17
	(0.17)
<b>Bullhead minnow</b>	31.77
	(17.38)
<b>Tadpole madtom</b>	0.17
	(0.17)
<b>Flathead catfish</b>	0.33
	(0.33)
<b>Brook silverside</b>	0.33
	(0.21)
<b>White bass</b>	3.27
	(1.18)
<b>Rock bass</b>	0.49
	(0.33)
<b>Green sunfish</b>	0.65
	(0.65)
<b>Pumpkinseed</b>	0.16
	(0.16)
<b>Orangespotted sunfish</b>	34.80

	(34.21)
<b>Bluegill</b>	0.82
	(0.53)
<b>Largemouth bass</b>	7.62
	(6.18)
<b>Black crappie</b>	0.17
	(0.17)
<b>Bluntnose darter</b>	0.49
	(0.49)
<b>Johnny darter</b>	5.68
	(4.72)
<b>Logperch</b>	16.34
	(16.34)
<b>Sauger</b>	0.16
	(0.16)
<b>Walleye</b>	0.49
	(0.49)
<b>Freshwater drum</b>	0.33
	(0.21)

**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 2001. 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	0.42
	(0.24)
Channel catfish	0.17
	(0.11)
Flathead catfish	0.08
	(0.08)
Freshwater drum	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 2001. 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	0.09
	(0.09)
Common carp	0.58
	(0.32)
Smallmouth buffalo	2.21
	(1.76)
Flathead catfish	0.17
	(0.17)
Rock bass	0.08
	(0.08)
White crappie	0.09
	(0.09)
Black crappie	0.17
	(0.17)

<b>Freshwater drum</b>	0.25
	(0.17)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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 2001. 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>Shovelnose sturgeon</b>	2.79
	(0.67)
<b>Speckled chub</b>	2.46
	(0.85)
<b>Mimic shiner</b>	0.08
	(0.06)
<b>Channel catfish</b>	5.83
	(1.33)
<b>Stonecat</b>	0.25
	(0.11)
<b>Freckled madtom</b>	0.04
	(0.04)
<b>Flathead catfish</b>	0.71
	(0.24)

<b>Bluegill</b>	0.04
	(0.04)
<b>Western sand darter</b>	0.04
	(0.04)
<b>Sauger</b>	0.04
	(0.04)
<b>Walleye</b>	0.04
	(0.04)
<b>Freshwater drum</b>	0.33
	(0.12)

**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*	Species	Method
<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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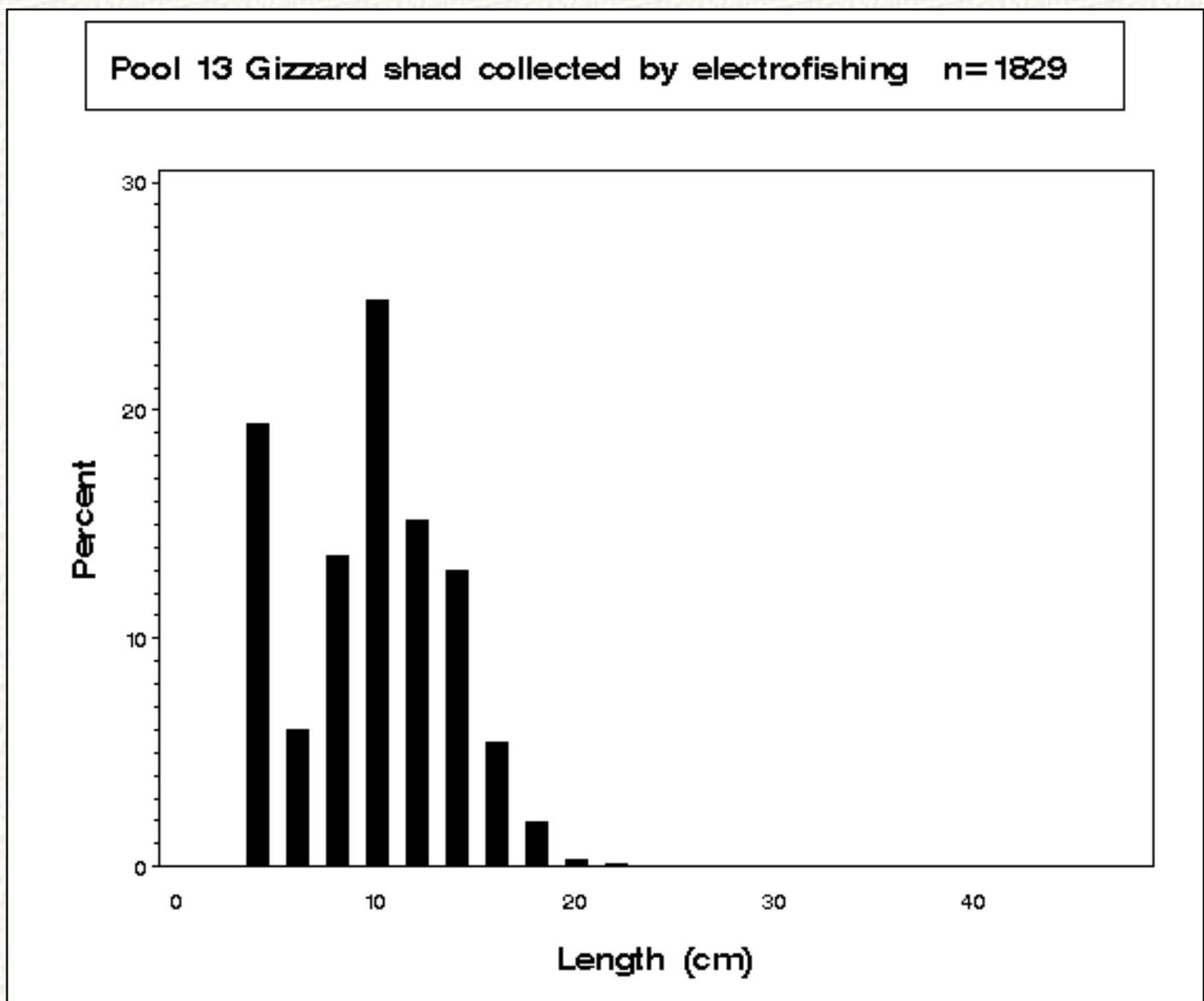
[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2001/figures/ia\\_figures\\_length.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/figures/ia_figures_length.html)

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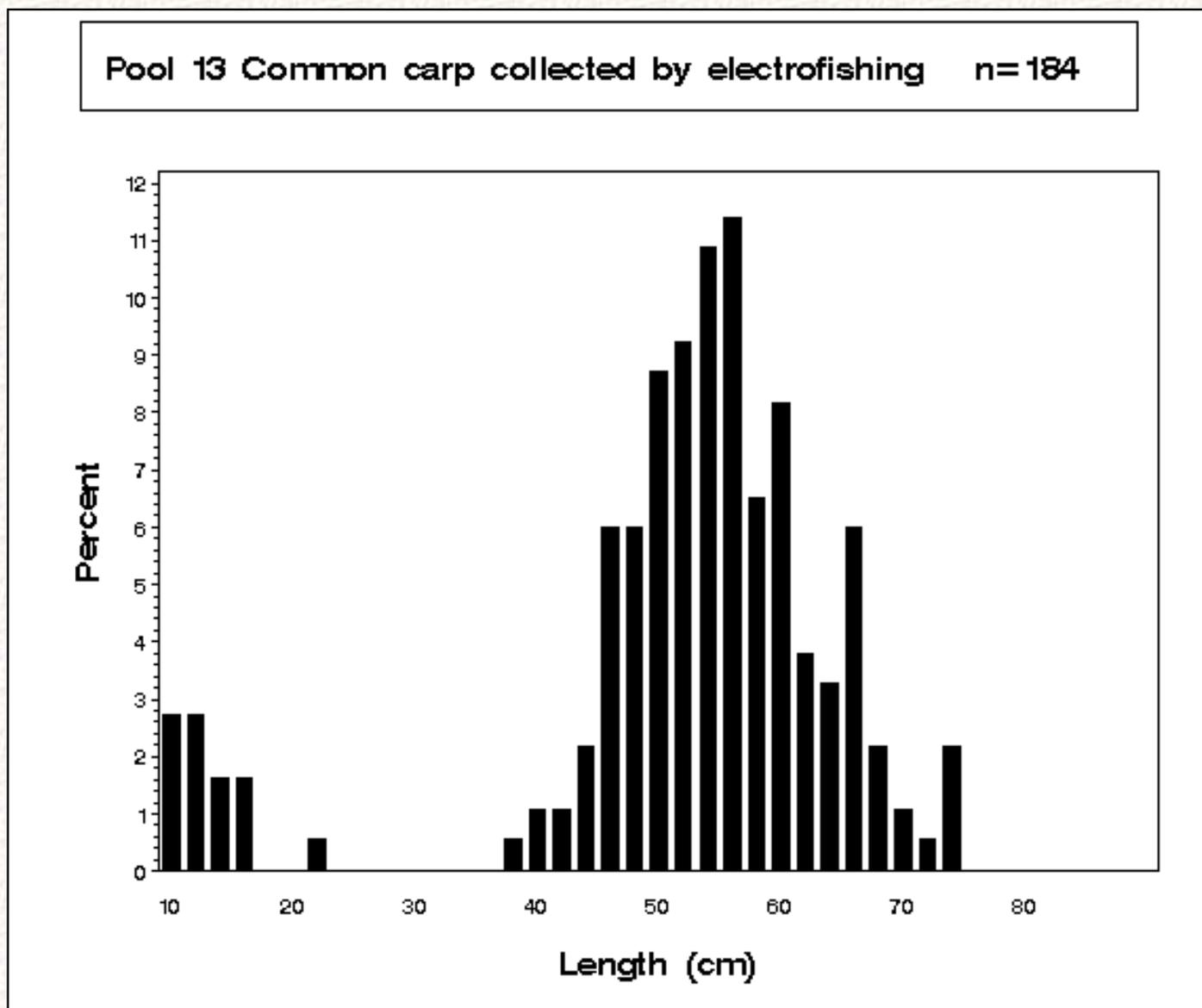
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**Figure 2.3** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



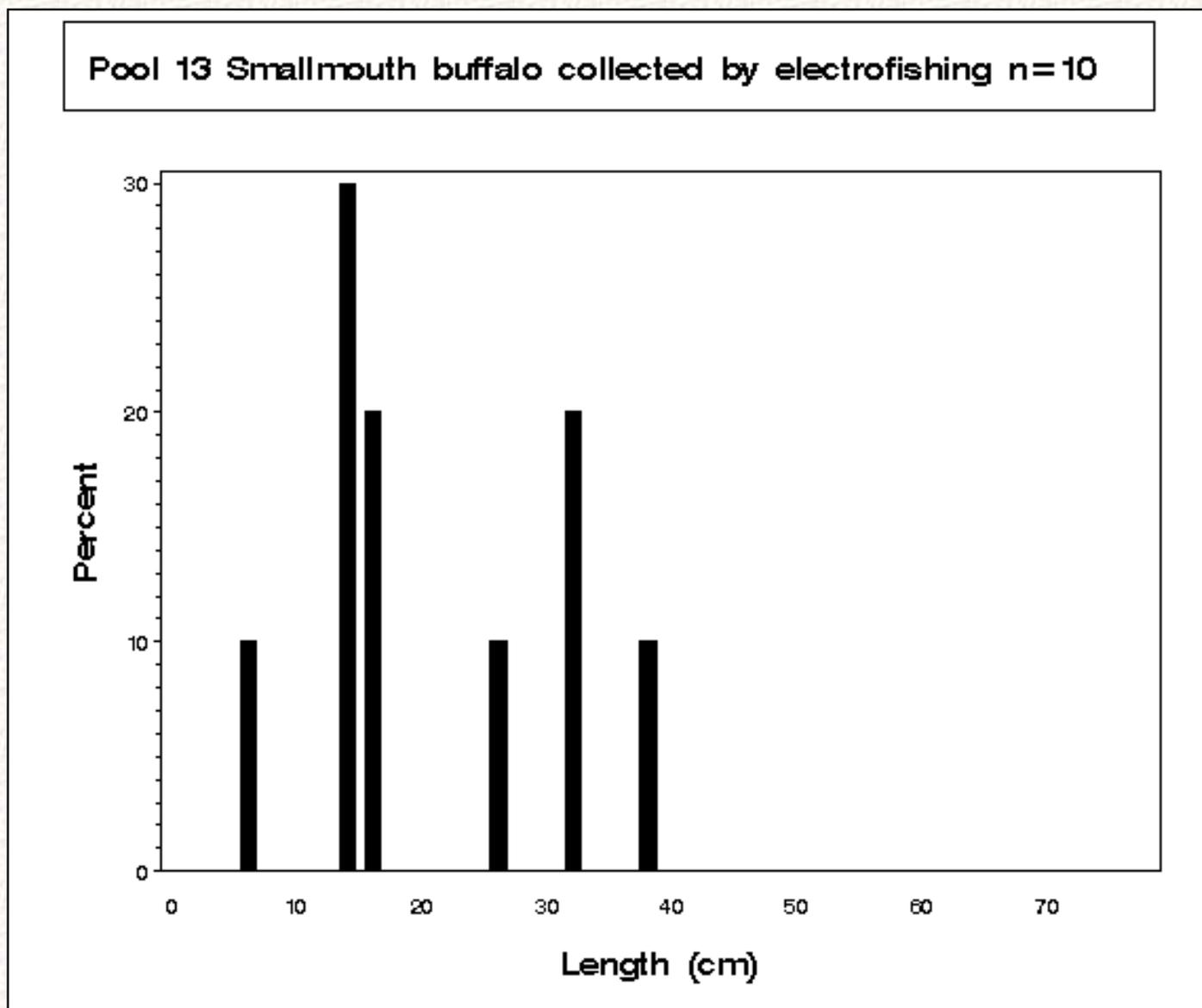
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**Figure 3.3** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



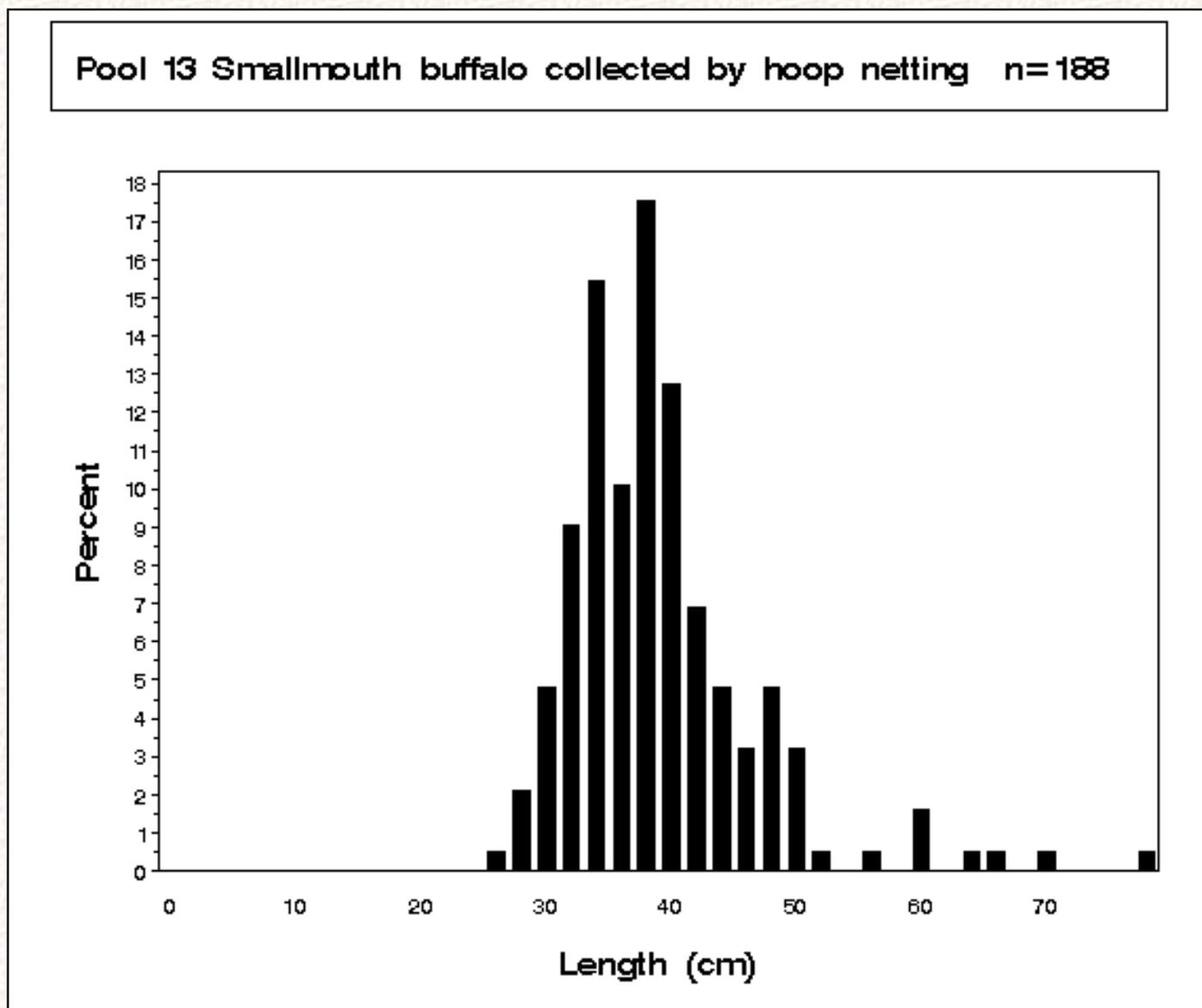
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**Figure 4.3** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



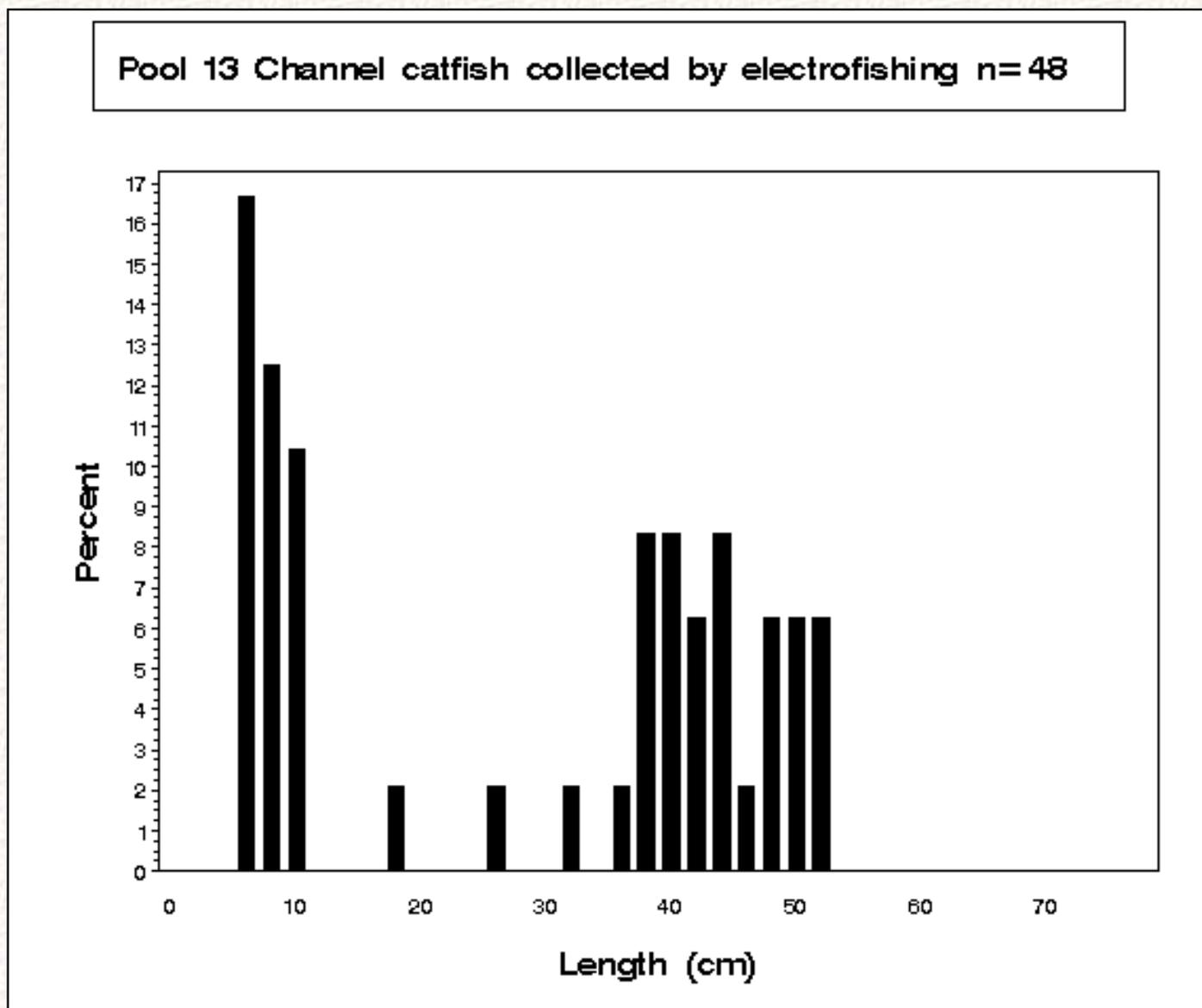
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**Figure 5.3** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



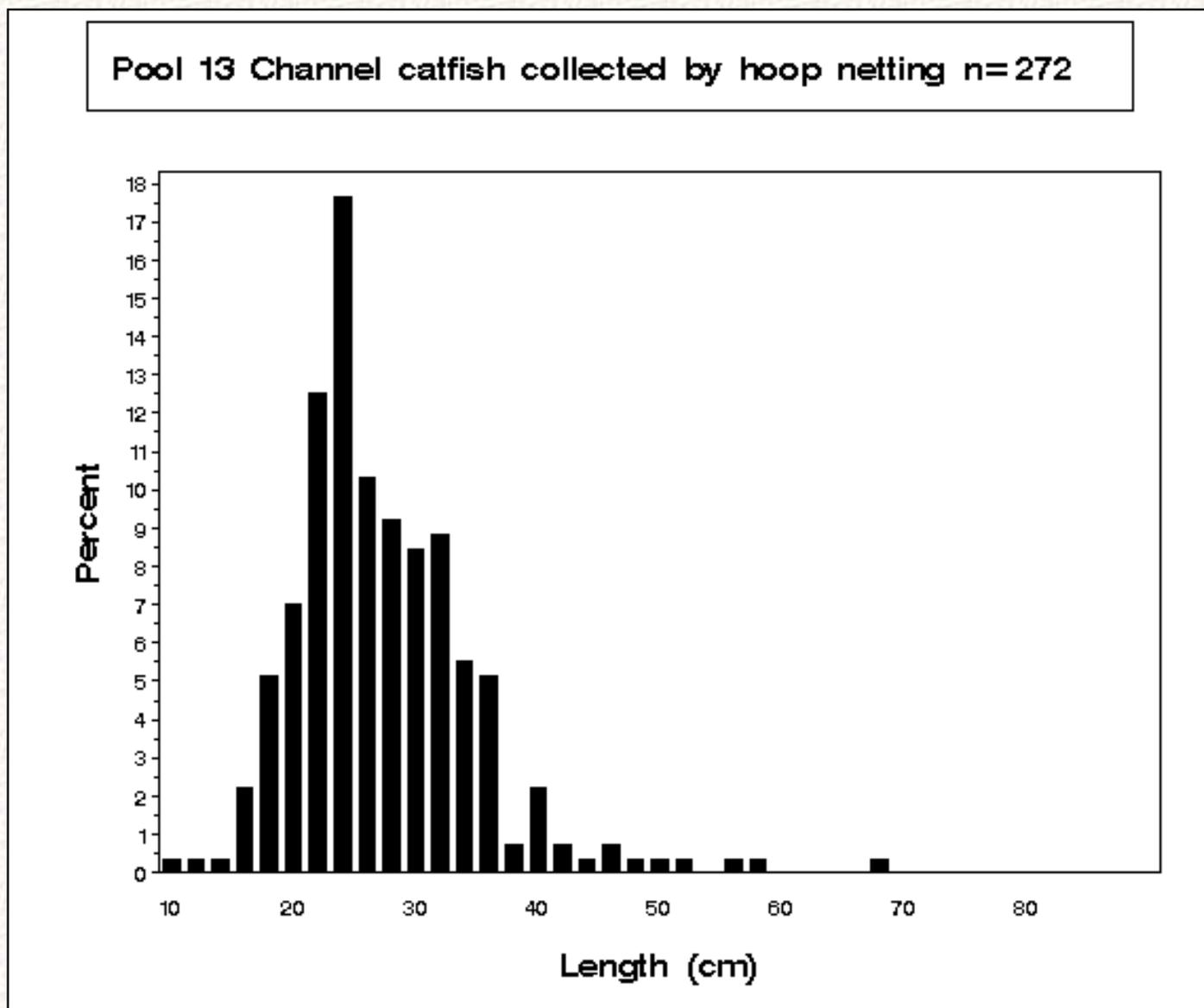
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**Figure 6.3** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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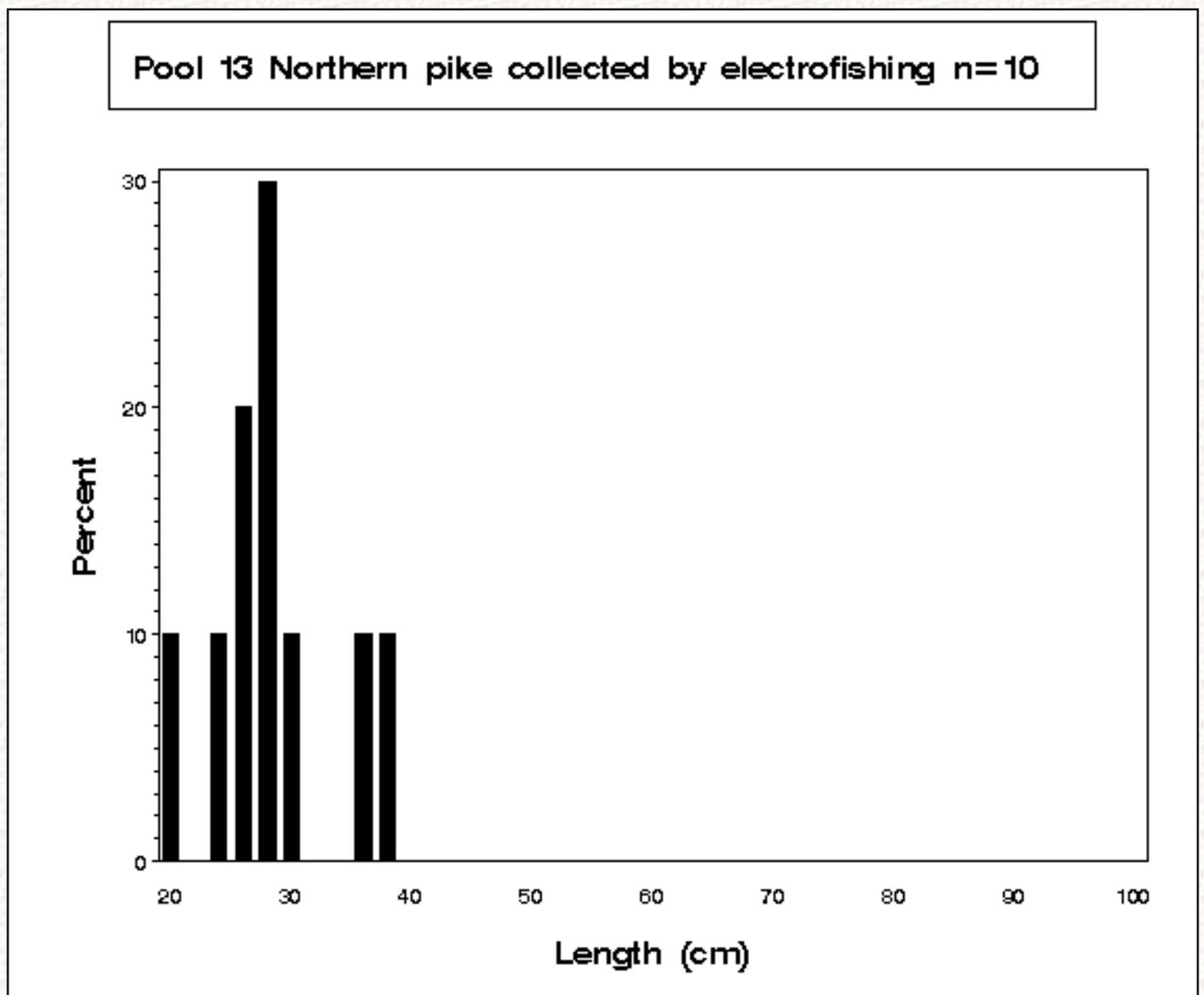
**Figure 7.3** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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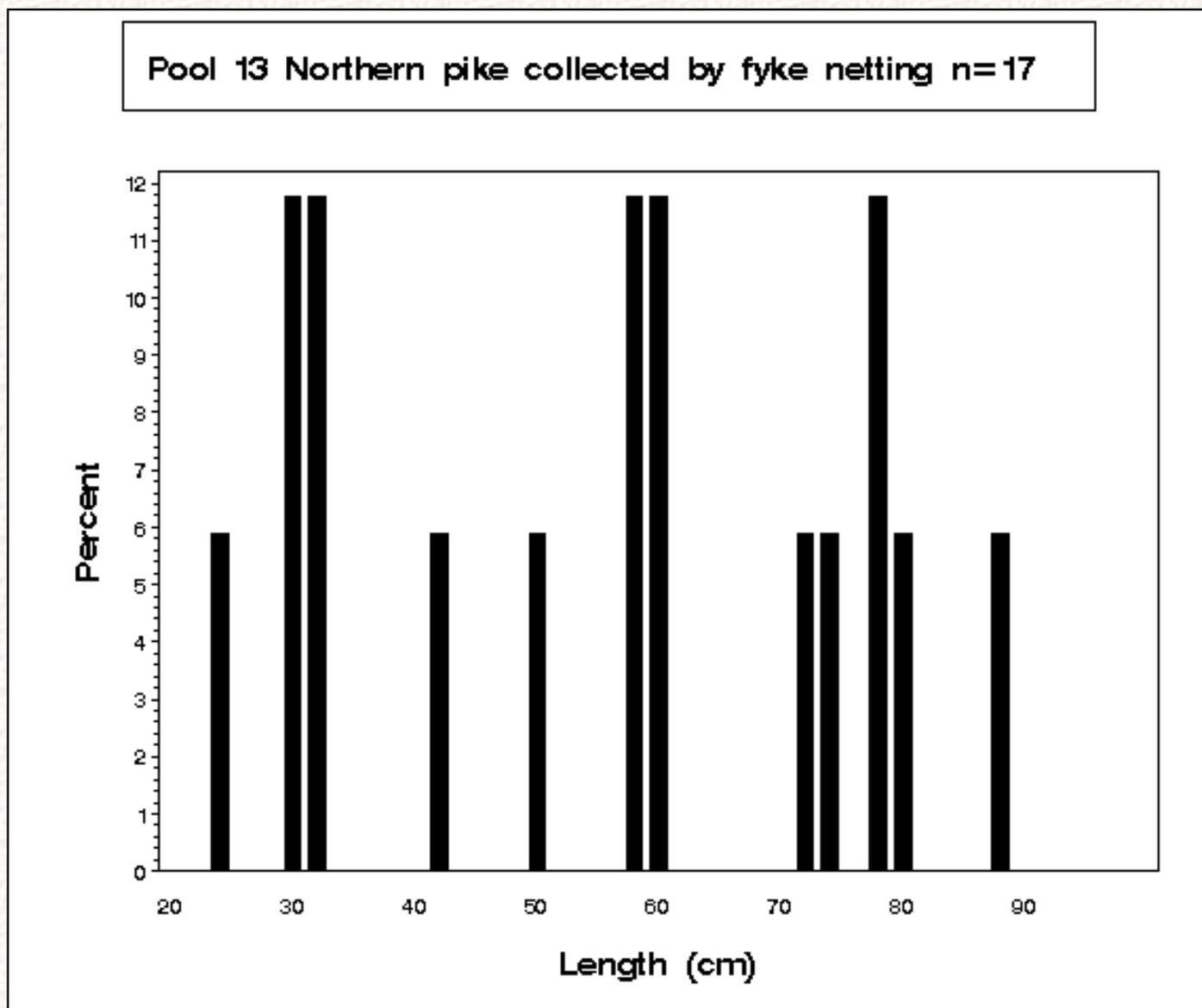
**Figure 8.3** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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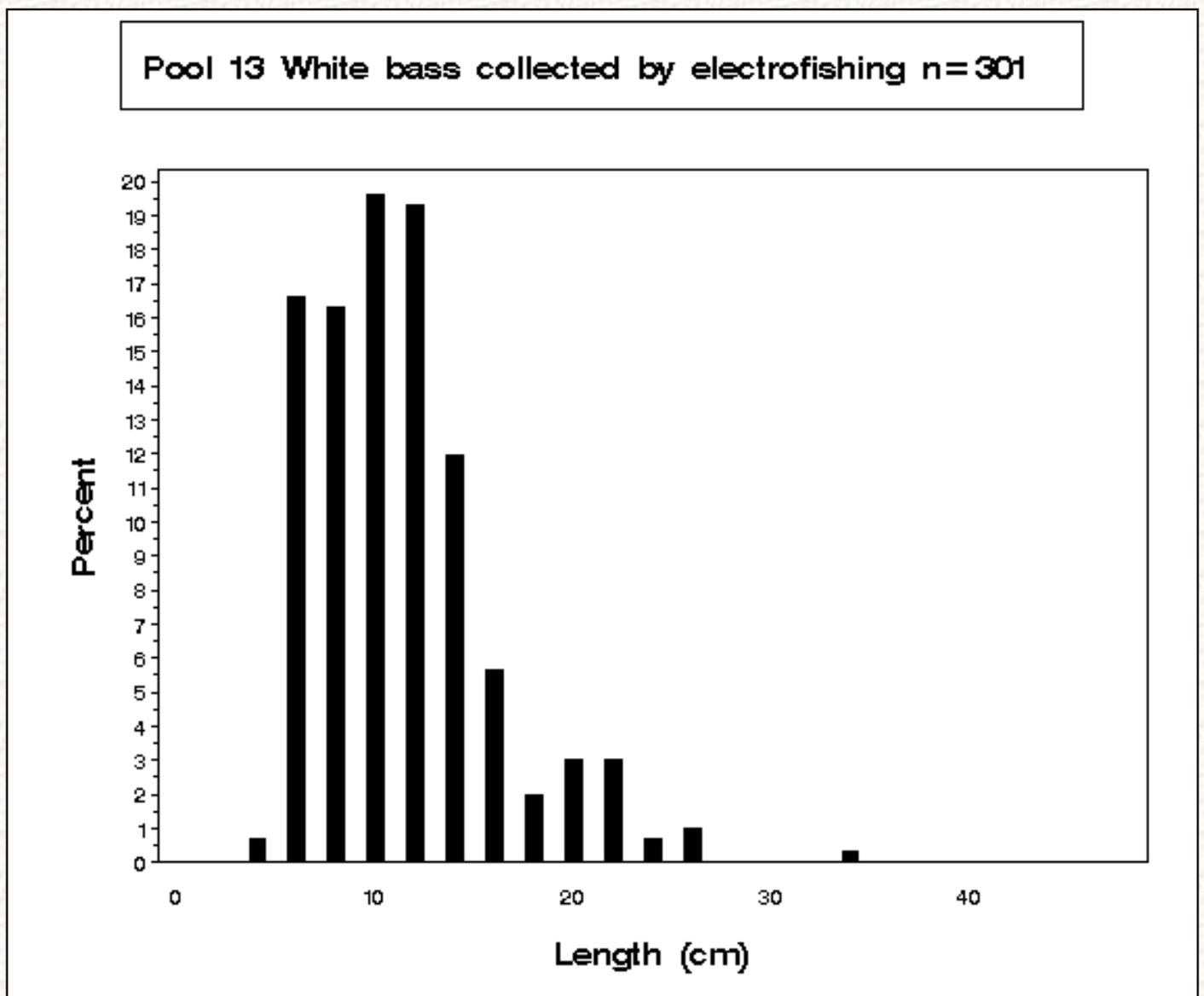

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**Figure 9.3** Length distributions (*length*) as a percentage of catch (*percent*) for northern pike (*Esox lucius*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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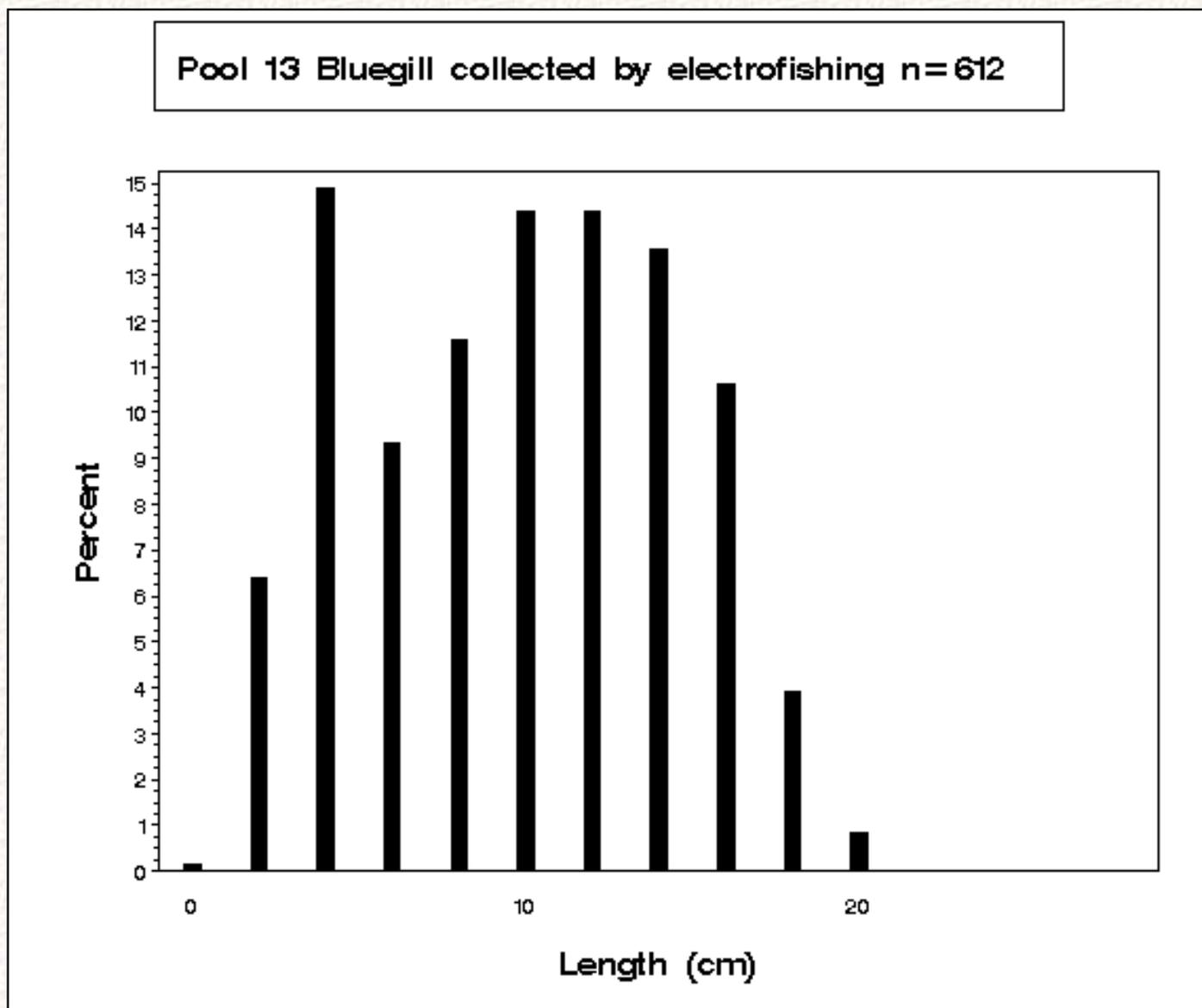
**Figure 10.3** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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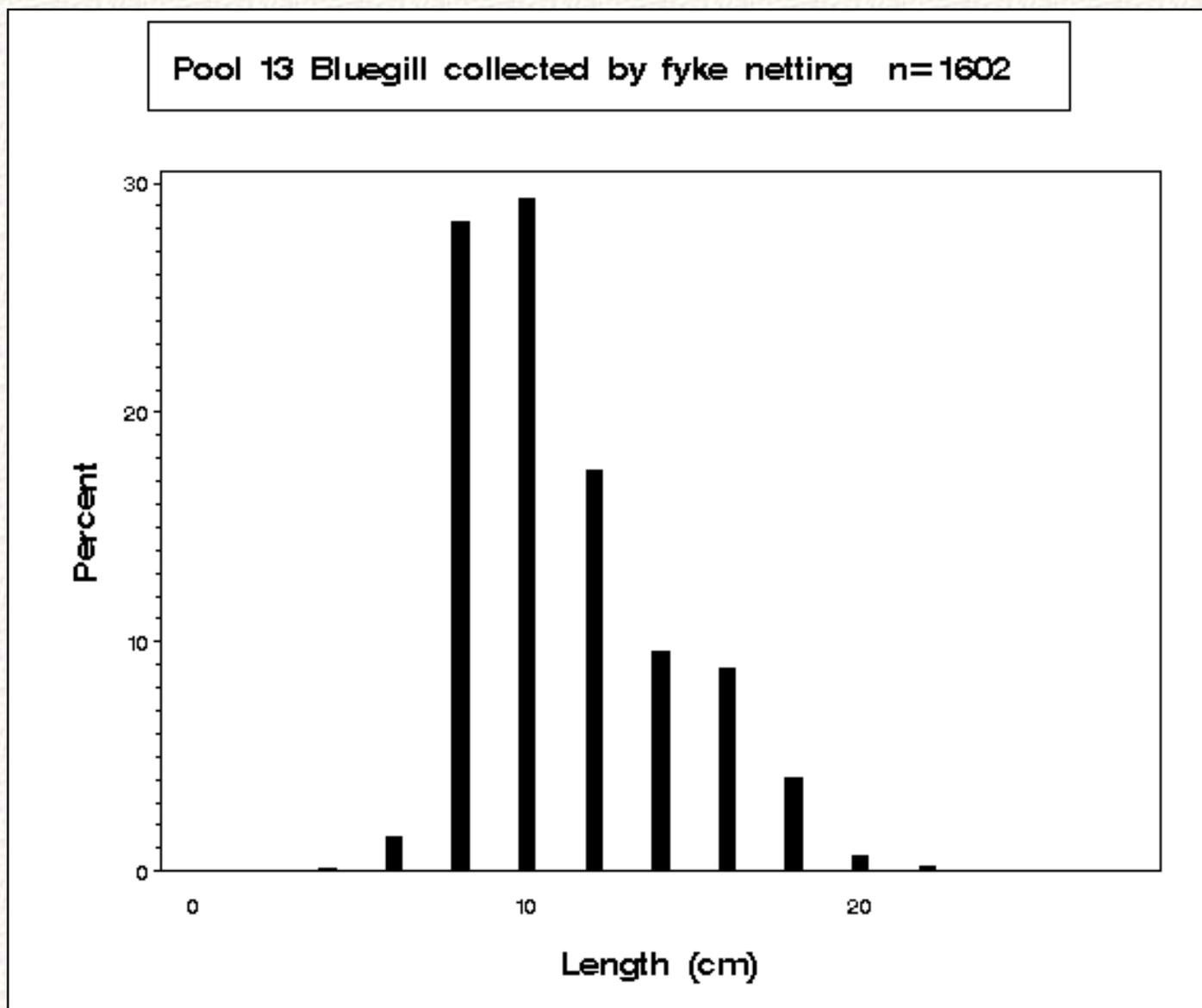
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**Figure 11.3** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



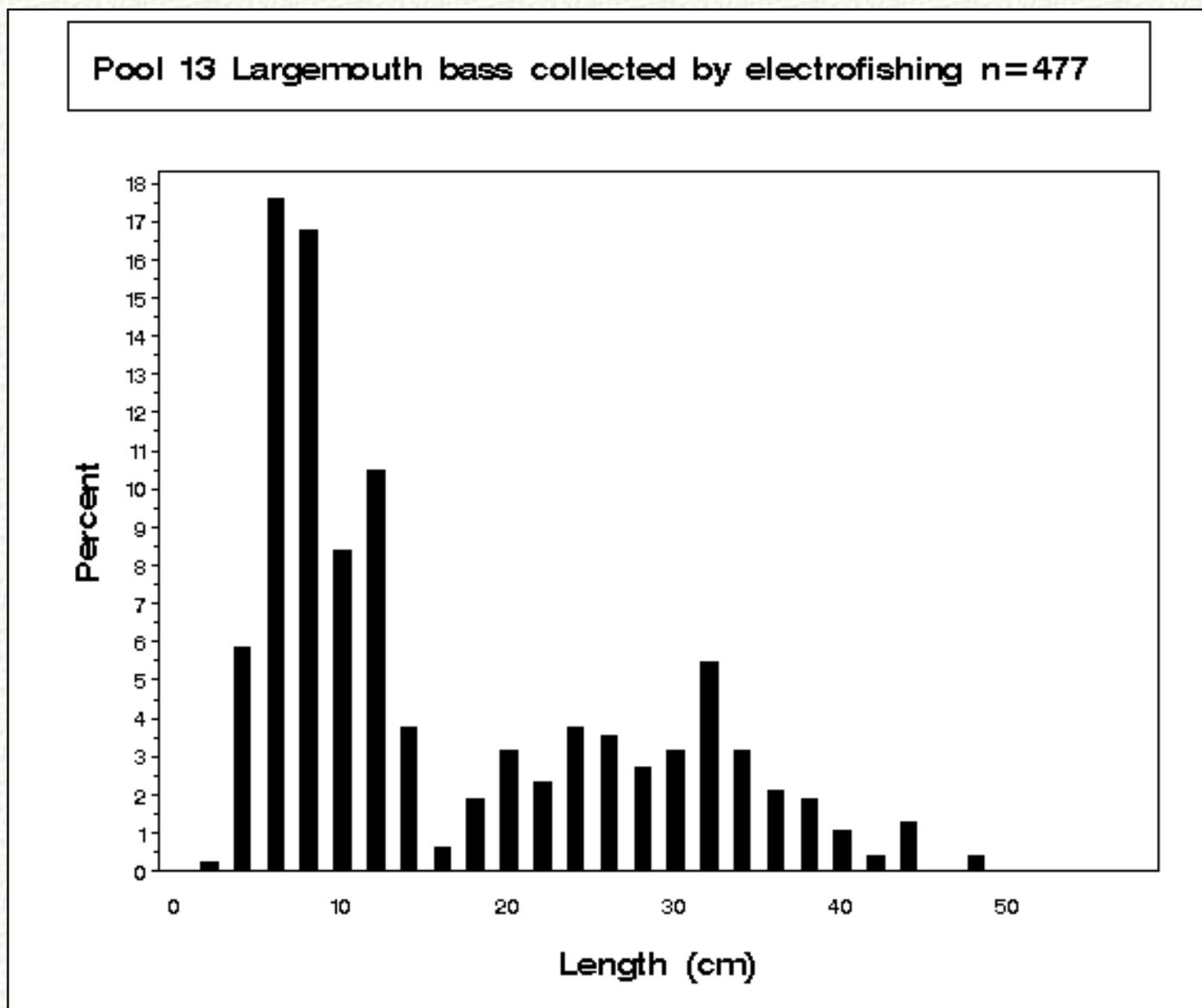
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**Figure 12.3** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.




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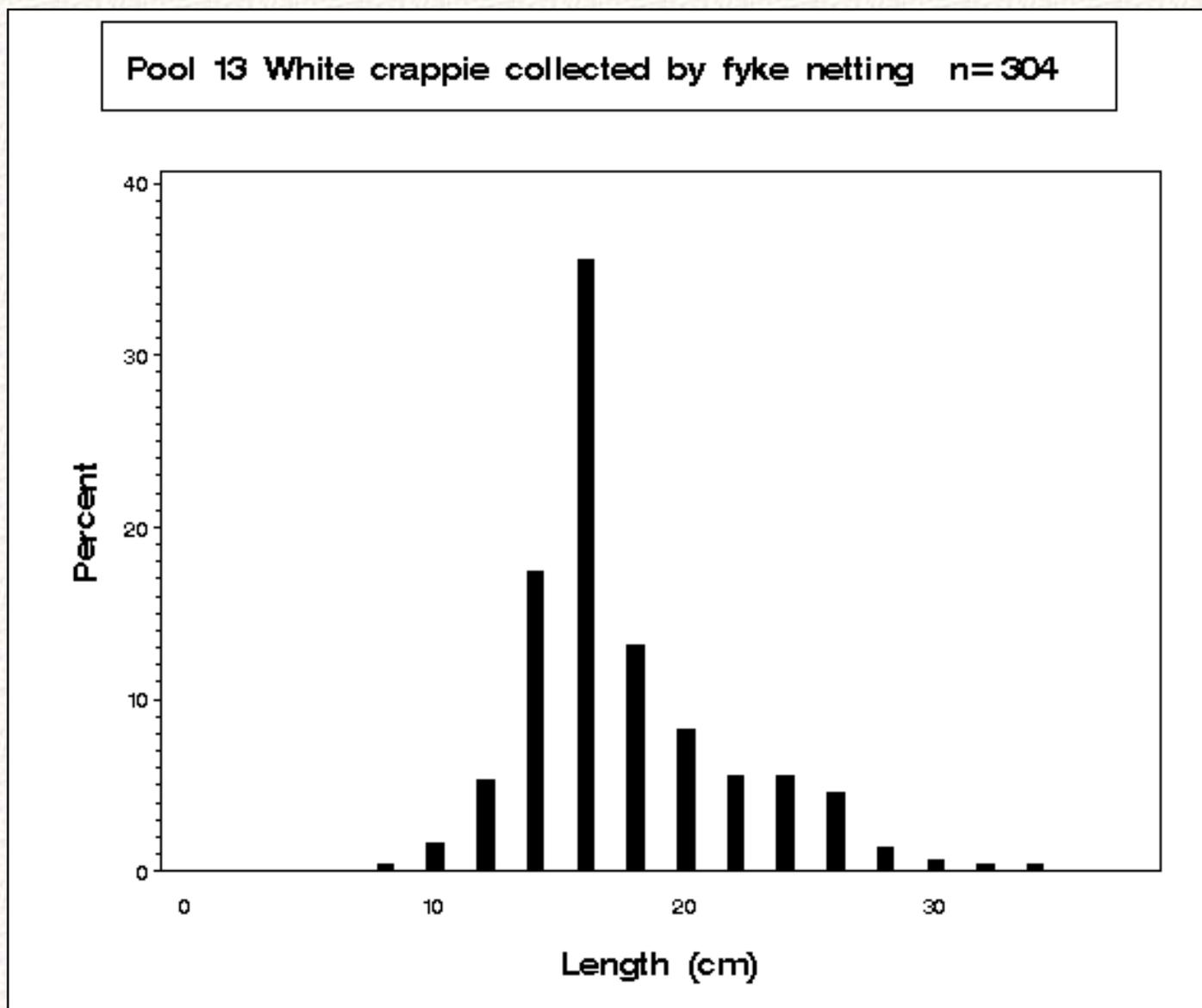
**Figure 13.3** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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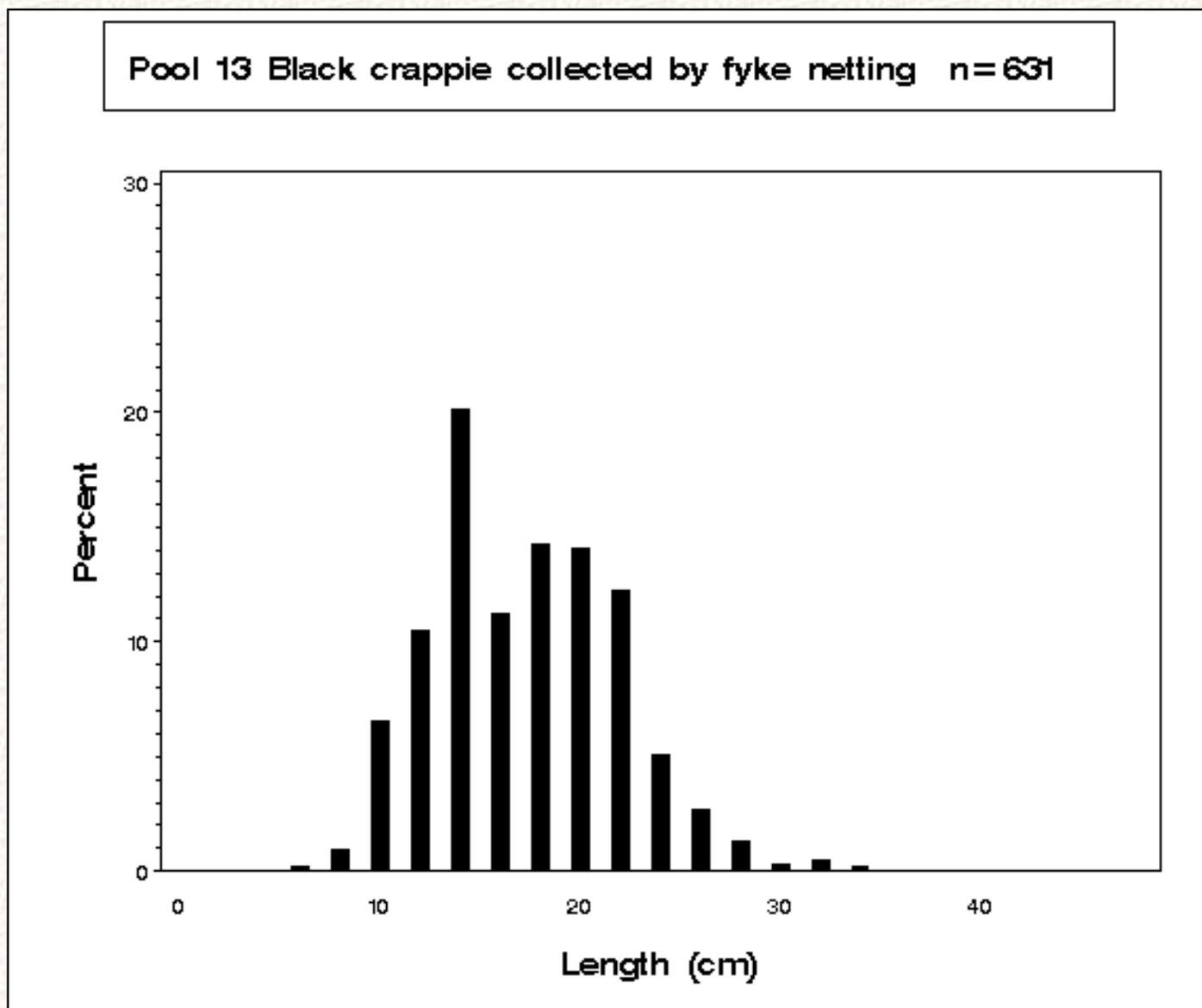
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**Figure 14.3** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



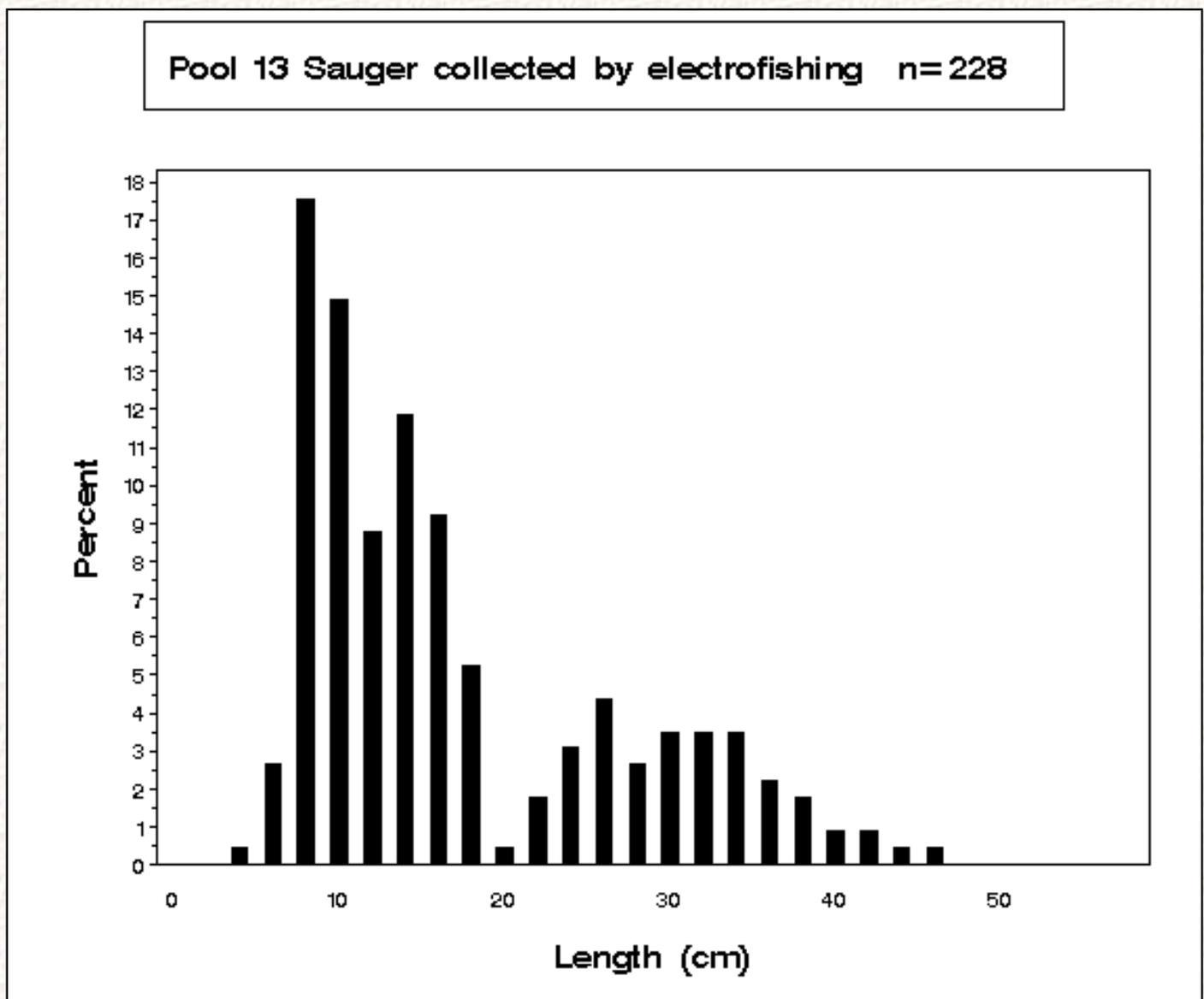
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**Figure 15.3** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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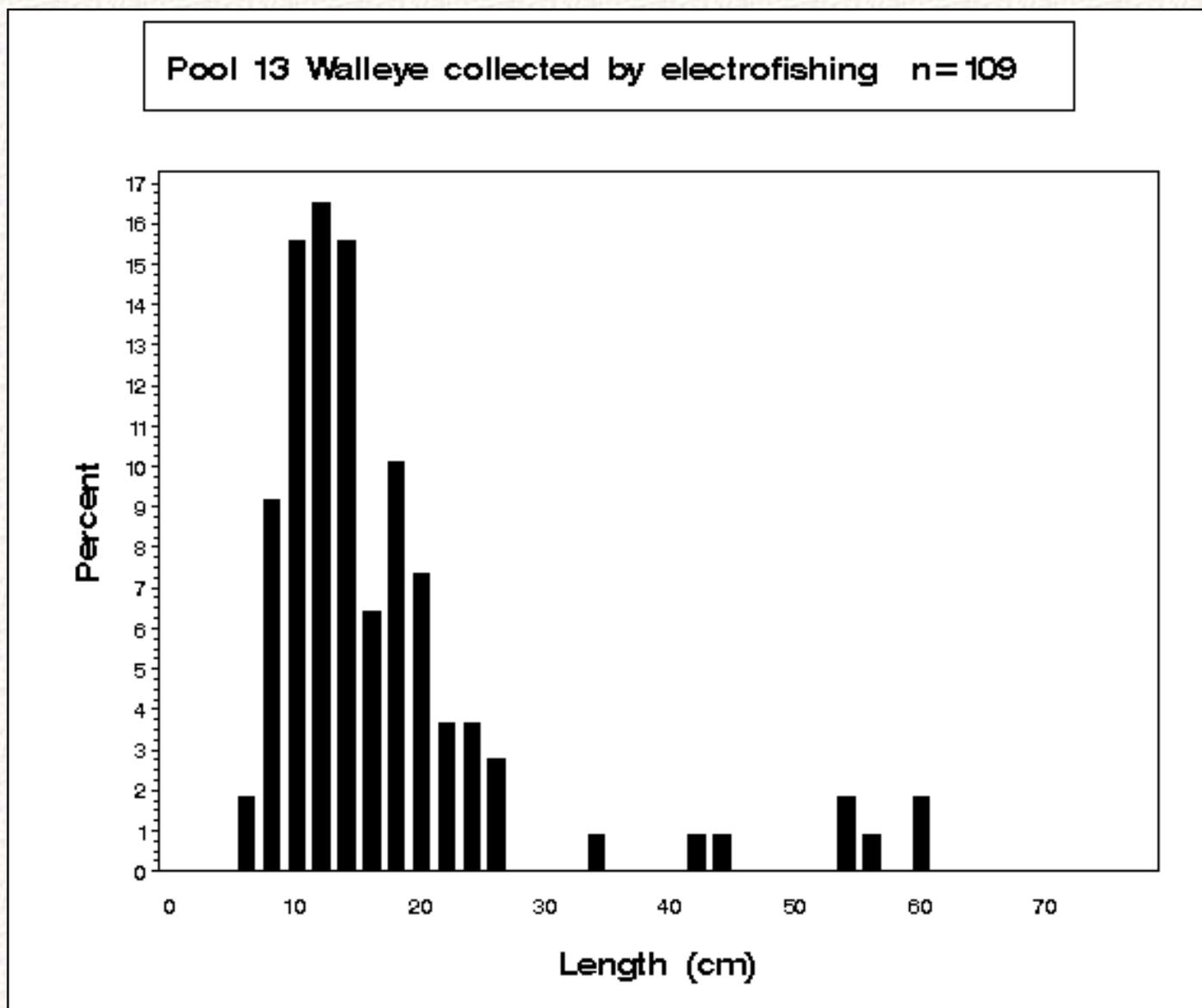
**Figure 16.3** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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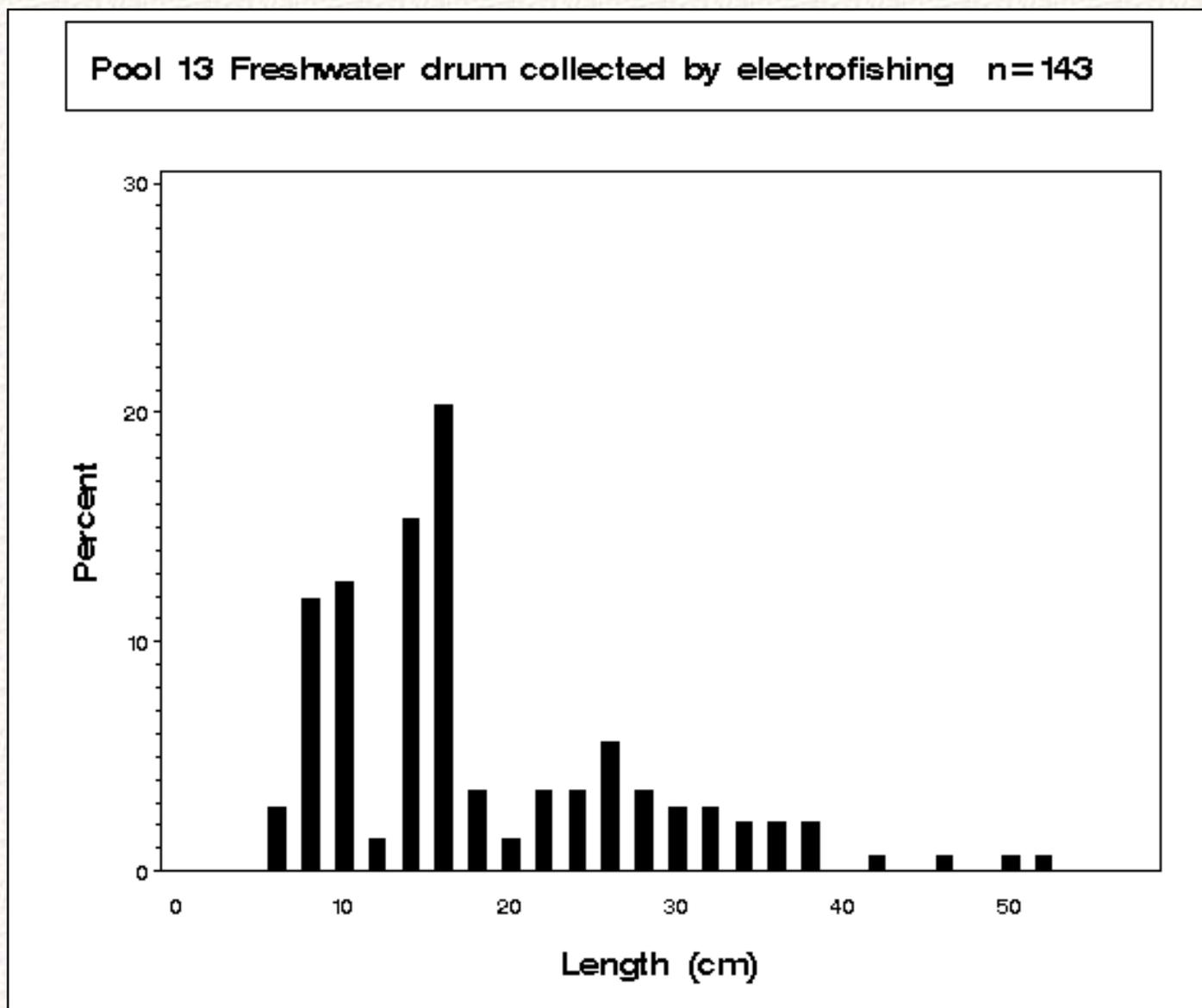
**Figure 17.3** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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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 2001. [Click here](#) to view this species' length distributions in all study reaches.



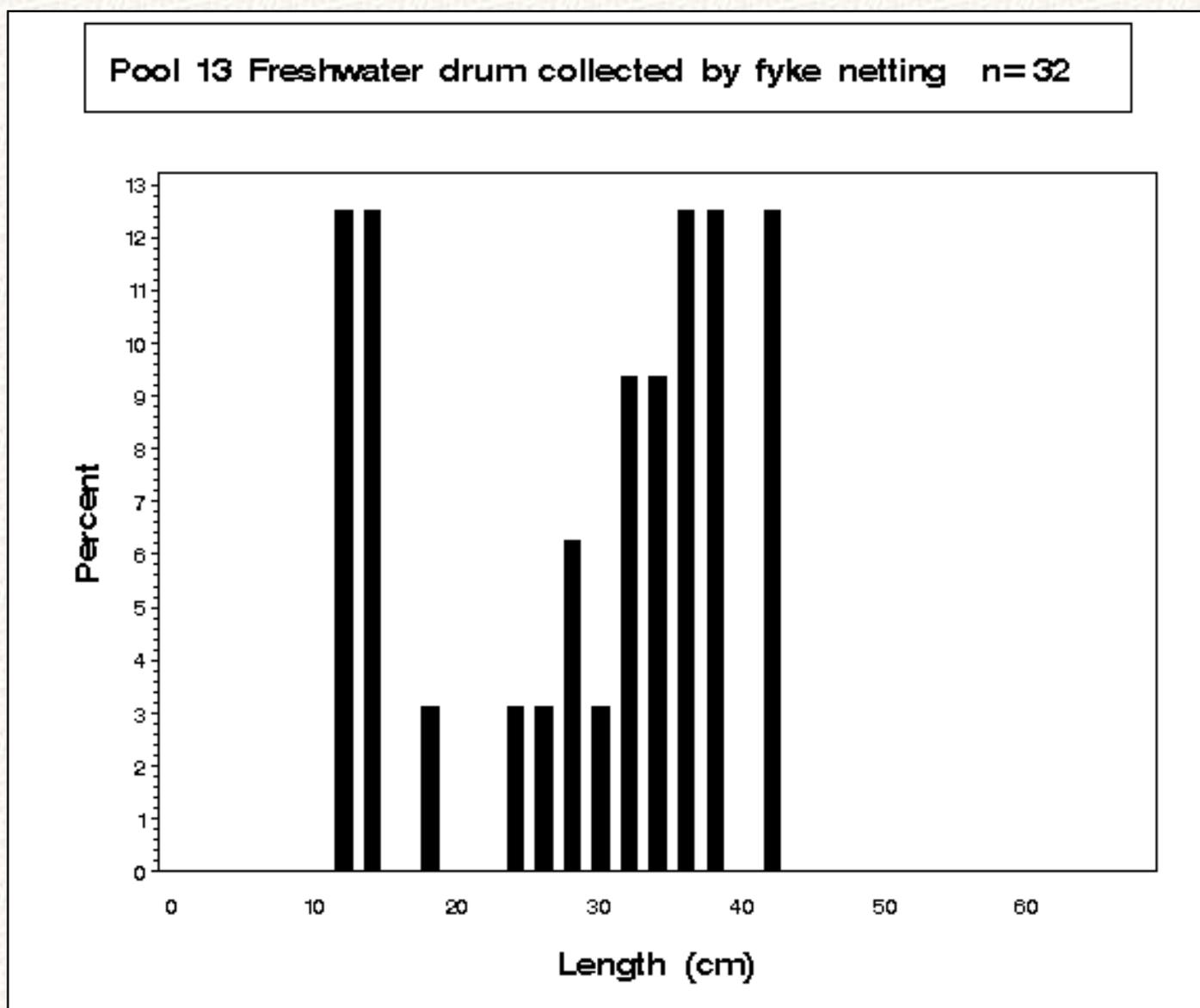


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**Figure 19.3** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by fyke netting in Pool 13 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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## Pool 26, Upper Mississippi River 2001 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 2001. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 383 fish collections were conducted using 10 gear types ([Table 2.4](#)).
- Water level extremes resulted in one missed mini fyke in period 1, two missed mini fykes in period 2, and one day electrofishing in period 3. One large hoop net was apparently stolen during period 3 resulting in an additional missed sample ([Table 2.4](#); [Figure 1.4](#)).
- Effort was reallocated slightly for 2001 to gain greater statistical power. Two large and small hoop net collections in the backwater contiguous open stratum and two in the impounded open stratum were redirected to side channel border and main channel border unstructured strata. In addition, two fyke net collections in the side channel border stratum were redirected to the impounded shoreline stratum.
- Of the 383 fish collections, 365 were from randomly selected sites. Eighteen 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](#)).
- 19,417 fish were collected representing 63 species and 2 hybrids ([Table 3.4](#)).
- Fish distribution records for the Upper Mississippi River document 99 fish species from Pool 26 (Pitlo et al. 1995).
- The LTRMP species total for Pool 26 before the 2001 season was 88; no new

species have been added to this total since 2000.

- Two lake sturgeon (Illinois-listed endangered species) were 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 2001. 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					4				8
Large hoop net			7	10	2					19
Small hoop net			7	10	2					19
Mini fyke net	4		5	2	2	2				15
Night electrofishing									2	2
Seine			12	16						28
Trawling									4	4
Tandem fyke net		2					2			4
Tandem mini fyke net		2					2			4
<b>Subtotal</b>	<b>14</b>	<b>4</b>	<b>37</b>	<b>46</b>	<b>8</b>	<b>10</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>129</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					4				8
Large hoop net			7	10	2					19
Small hoop net			7	10	2					19
Mini fyke net	4		5	2		2				13
Night electrofishing									2	2
Seine			12	16						28
Trawling									4	4

Tandem fyke net		2					2			4
Tandem mini fyke net		2					2			4
<b>Subtotal</b>	<b>14</b>	<b>4</b>	<b>37</b>	<b>46</b>	<b>6</b>	<b>10</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>127</b>

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

Sampling gear	BWCS	BWCO	SCB	MCBU	MCBW	IMPS	IMPO	TRI	TWZ	TOTAL
Day electrofishing	5		6	8	2	4				25
Fyke net	4					4				8
Large hoop net			6	10	2					18
Small hoop net			7	10	2					19
Mini fyke net	4		5	2	2	2				15
Night electrofishing									2	2
Seine			12	16						28
Trawling									4	4
Tandem fyke net		2					2			4
Tandem mini fyke net		2					2			4
<b>Subtotal</b>	<b>13</b>	<b>4</b>	<b>36</b>	<b>46</b>	<b>8</b>	<b>10</b>	<b>4</b>	<b>0</b>	<b>6</b>	<b>127</b>
<b>Total</b>	<b>41</b>	<b>12</b>	<b>110</b>	<b>138</b>	<b>22</b>	<b>30</b>	<b>12</b>	<b>0</b>	<b>18</b>	<b>383</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**

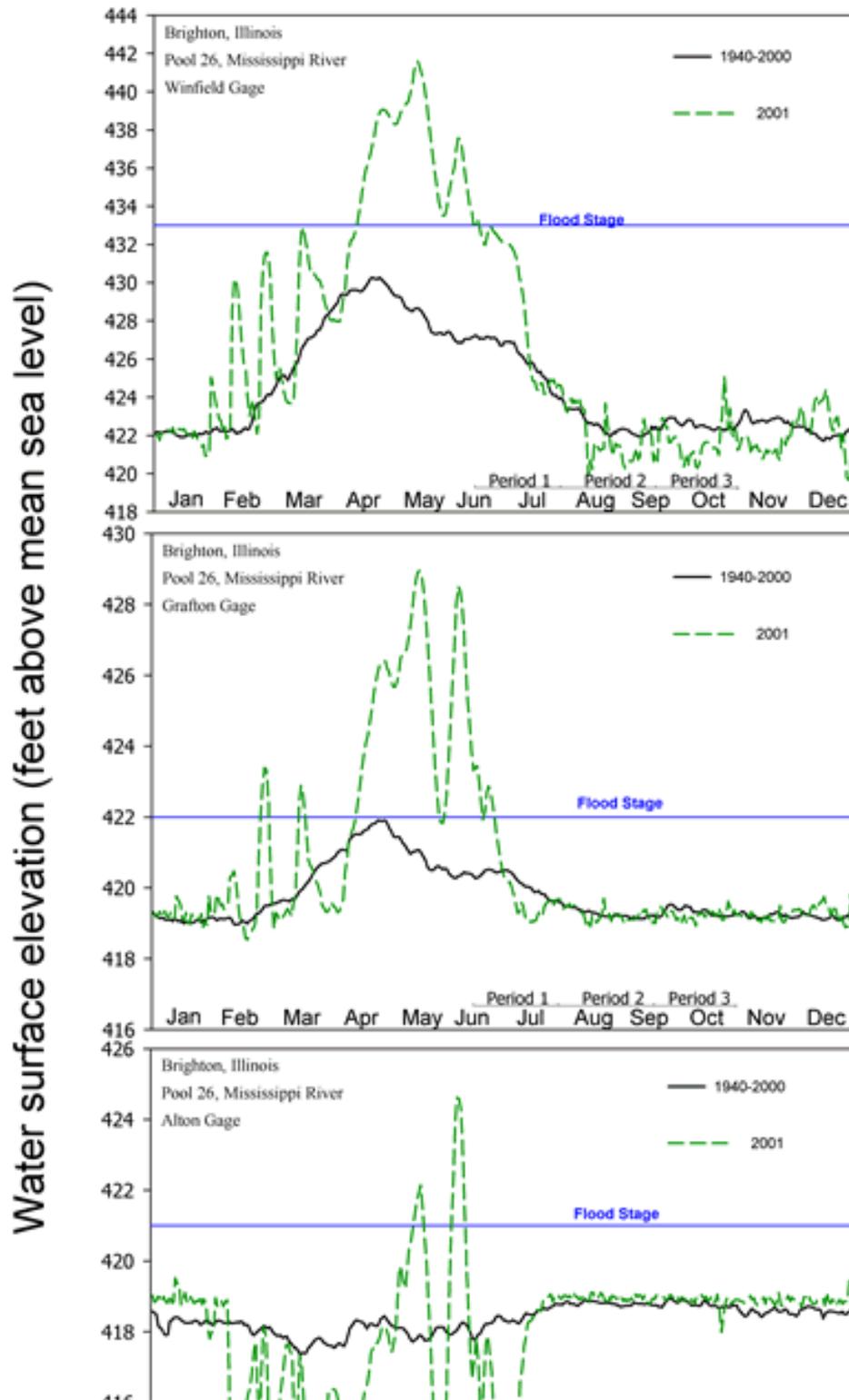


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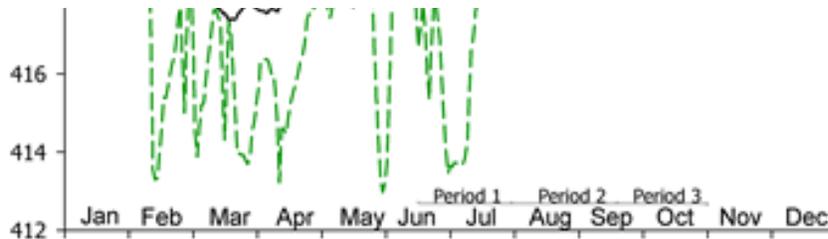


Figure 1.4. Daily water surface elevation from Winfield, Grafton, and Alton Gages for La Grange Pool, Illinois River, during 2001 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (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 2001. 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	T	TOTAL
1	Lake sturgeon	<i>Acipenser fulvescens</i>	-	-	-	-	-	-	-	-	-	-	2	2
2	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	1	-	20	21
3	Paddlefish	<i>Polyodon spathula</i>	-	1	-	-	-	-	-	-	-	-	-	1
4	Spotted gar	<i>Lepisosteus oculatus</i>	2	-	1	-	-	-	-	-	-	-	-	3
5	Longnose gar	<i>L. osseus</i>	1	3	-	-	-	-	-	-	-	-	-	4
6	Shortnose gar	<i>L. platostomus</i>	43	201	150	52	94	11	6	1	5	-	1	564
7	Bowfin	<i>Amia calva</i>	-	-	11	-	2	-	-	-	-	-	-	13
8	Goldeye	<i>Hiodon alosoides</i>	8	5	-	-	-	-	-	-	-	-	-	13
9	Mooneye	<i>H. tergisus</i>	16	-	-	-	4	3	10	-	-	-	-	33
10	Skipjack herring	<i>Alosa chrysochloris</i>	47	1	-	-	3	2	11	-	-	-	-	64
11	Gizzard shad	<i>Dorosoma cepedianum</i>	1968	343	7	20	22	28	743	1	2	-	10	3144
12	Threadfin shad	<i>D. petenense</i>	154	-	4	2	17	2	3	-	-	-	-	182
13	Grass carp	<i>Ctenopharyngodon idella</i>	3	1	-	-	3	-	-	-	1	-	-	8
14	Red shiner	<i>Cyprinella lutrensis</i>	20	-	-	-	15	-	13	-	-	-	-	48
15	Spotfin shiner	<i>C. spiloptera</i>	237	1	-	-	304	1	213	-	-	-	-	756
16	Common carp	<i>Cyprinus carpio</i>	607	105	19	11	15	57	2	17	37	-	1	871
17	Mississippi silvery minnow	<i>Hybognathus nuchalis</i>	12	1	-	-	19	2	11	-	-	-	-	45
18	Silver carp	<i>Hypophthalmichthys molitrix</i>	6	3	-	-	-	-	-	-	-	-	-	9
19	Bighead carp	<i>H. nobilis</i>	7	-	4	-	-	-	-	-	-	-	-	11

20	Speckled chub	<i>Macrhybopsis aestivalis</i>	-	-	-	-	1	12	3	-	-	-	38	54
21	Silver chub	<i>M. storeriana</i>	10	-	-	-	2	1	10	2	-	-	4	29
22	Golden shiner	<i>Notemigonus crysoleucas</i>	2	-	-	-	3	-	-	-	-	-	-	5
23	Emerald shiner	<i>Notropis atherinoides</i>	386	24	-	-	1130	197	1000	-	-	-	-	2737
24	River shiner	<i>N. blennioides</i>	104	-	-	-	94	1	247	-	-	-	-	446
25	Spottail shiner	<i>N. hudsonius</i>	1	-	-	-	9	3	-	-	-	-	-	13
26	Silverband shiner	<i>N. shumardi</i>	16	5	-	-	45	31	3	-	-	-	1	101
27	Sand shiner	<i>N. stramineus</i>	1	-	-	-	-	-	2	-	-	-	-	3
28	Channel shiner	<i>N. wickliffi</i>	602	3	-	-	473	72	306	-	-	-	1	1457
29	Unidentified shiner	<i>Notropis</i> sp.	20	-	-	-	96	13	51	-	-	-	-	180
30	Bullhead minnow	<i>Pimephales vigilax</i>	537	-	-	-	65	17	29	-	-	-	-	648
31	Creek chub	<i>Semotilus atromaculatus</i>	-	-	-	-	1	-	-	-	-	-	-	1
32	Unidentified minnow	Unidentified Cyprinidae	-	-	-	-	2	-	-	-	-	-	-	2
33	River carpsucker	<i>Carpoides carpio</i>	66	5	5	-	3	-	16	-	1	-	-	96
34	Unidentified carpsucker	<i>Carpoides</i> sp.	-	-	-	-	-	5	-	-	-	-	-	5
35	Blue sucker	<i>Cycleptus elongatus</i>	-	-	-	-	-	-	-	-	1	-	-	1
36	Smallmouth buffalo	<i>Ictiobus bubalus</i>	93	6	1	-	1	1	4	14	223	-	-	343
37	Bigmouth buffalo	<i>I. cyprinellus</i>	39	4	1	4	1	-	1	1	1	-	-	52
38	Black buffalo	<i>I. niger</i>	8	1	-	-	-	-	-	2	3	-	-	14
39	Unidentified buffalo	<i>Ictiobus</i> sp.	47	-	2	9	124	73	13	-	-	-	-	268
40	Shorthead redhorse	<i>Moxostoma macrolepidotum</i>	10	-	1	-	-	-	-	-	1	-	-	12
41	Black bullhead	<i>Ameiurus melas</i>	1	-	-	-	-	-	-	-	-	-	-	1
42	Brown bullhead	<i>A. nebulosus</i>	-	-	-	-	1	-	-	-	-	-	-	1
43	Blue catfish	<i>Ictalurus furcatus</i>	2	-	-	-	-	-	-	285	79	-	128	494
44	Channel catfish	<i>I. punctatus</i>	169	5	19	12	71	8	36	2060	99	-	380	2859
45	Stonecat	<i>Noturus flavus</i>	1	-	-	-	-	-	-	-	-	-	-	1

46	Freckled madtom	<i>N. nocturnus</i>	-	-	-	-	-	-	-	-	1	-	-	-	1
47	Flathead catfish	<i>Pylodictis olivaris</i>	35	5	3	1	1	4	1	26	13	-	-	-	89
48	Pirate perch	<i>Aphredoderus sayanus</i>	-	-	-	-	-	1	-	-	-	-	-	-	1
49	Blackstripe topminnow	<i>Fundulus notatus</i>	-	-	-	-	6	-	-	-	-	-	-	-	6
50	Western mosquitofish	<i>Gambusia affinis</i>	1	-	-	-	70	3	7	-	-	-	-	-	81
51	Brook silverside	<i>Labidesthes sicculus</i>	2	-	-	-	1	-	5	-	-	-	-	-	8
52	White bass	<i>Morone chrysops</i>	204	227	227	51	69	34	61	3	9	-	-	-	885
53	Yellow bass	<i>M. mississippiensis</i>	9	1	2	-	1	-	-	-	-	-	-	-	13
54	Striped x white bass	<i>M. saxatilis x chrysops</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
55	Green sunfish	<i>Lepomis cyanellus</i>	149	2	4	-	2	-	-	-	-	-	-	-	157
56	Warmouth	<i>L. gulosus</i>	20	-	6	1	3	1	-	-	-	-	-	-	31
57	Orangespotted sunfish	<i>L. humilis</i>	265	3	28	1	60	16	3	-	-	-	-	-	376
58	Bluegill	<i>L. macrochirus</i>	467	31	200	30	51	6	1	5	-	-	-	-	791
59	Redear sunfish	<i>L. microlophus</i>	1	-	-	-	-	-	-	-	-	-	-	-	1
60	Green x bluegill sunfish	<i>L. cyanellus x macrochirus</i>	3	1	1	-	-	-	-	-	-	-	-	-	5
61	Unidentified Lepomis	<i>Lepomis sp.</i>	-	-	-	-	48	1	-	-	-	-	-	-	49
62	Smallmouth bass	<i>Micropterus dolomieu</i>	1	-	-	-	-	-	1	-	-	-	-	-	2
63	Largemouth bass	<i>M. salmoides</i>	211	1	6	1	14	-	-	-	-	-	-	-	233
64	White crappie	<i>Pomoxis annularis</i>	21	7	70	25	48	28	3	3	-	-	-	-	205
65	Black crappie	<i>P. nigromaculatus</i>	31	12	142	25	24	4	-	1	-	-	-	-	239
66	Logperch	<i>Percina caprodes</i>	13	2	-	-	2	-	-	-	-	-	-	-	17
67	River darter	<i>P. shumardi</i>	4	-	-	-	7	8	-	-	-	-	-	-	19
68	Unidentified darter	<i>Percina or Etheostoma sp.</i>	-	-	-	-	5	-	-	-	-	-	-	-	5
69	Sauger	<i>Stizostedion canadense</i>	40	46	1	4	6	32	5	-	-	-	-	1	135
70	Walleye	<i>S. vitreum</i>	-	3	-	-	-	-	-	-	-	-	-	1	4
71	Freshwater drum	<i>Aplodinotus grunniens</i>	358	136	18	14	42	90	71	31	154	-	43	-	957
			<b>7082</b>	<b>1195</b>	<b>933</b>	<b>263</b>	<b>3080</b>	<b>768</b>	<b>2891</b>	<b>2453</b>	<b>630</b>	<b>0</b>	<b>631</b>	<b>19926</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 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 2001. 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>	0.03	0.06		0.04		
	(0.03)	(0.06)		(0.04)		
<b>Longnose gar</b>	0.03			0.04		
	(0.03)			(0.04)		
<b>Shortnose gar</b>	0.50	1.12	0.17	0.39		0.68
	(0.14)	(0.36)	(0.17)	(0.19)		(0.23)
<b>Goldeye</b>	0.18	0.06		0.26	0.17	
	(0.12)	(0.06)		(0.18)	(0.17)	
<b>Mooneye</b>	0.41			0.52		0.21
	(0.29)			(0.43)		(0.16)
<b>Skipjack herring</b>	0.75	0.29	0.08	0.96	2.00	0.37
	(0.36)	(0.21)	(0.08)	(0.54)	(1.61)	(0.17)
<b>Gizzard shad</b>	29.83	14.71	16.50	30.61	39.33	30.53

	(7.63)	(7.70)	(5.60)	(10.57)	(14.67)	(10.42)
<b>Threadfin shad</b>	0.68	2.65	6.83	0.61	1.00	0.37
	(0.19)	(1.71)	(6.12)	(0.23)	(0.63)	(0.27)
<b>Grass carp</b>	0.02		0.08		0.17	0.05
	(0.02)		(0.08)		(0.17)	(0.05)
<b>Red shiner</b>	0.08	0.65	0.58	0.04		0.05
	(0.04)	(0.54)	(0.31)	(0.04)		(0.05)
<b>Spotfin shiner</b>	2.27	0.24	10.00	2.17	2.50	2.53
	(0.74)	(0.18)	(3.88)	(1.04)	(1.12)	(0.87)
<b>Common carp</b>	10.78	3.65	1.67	12.35	13.50	8.42
	(2.22)	(0.93)	(0.47)	(3.20)	(2.16)	(2.25)
<b>Mississippi silvery minnow</b>	0.02		0.67		0.50	0.05
	(0.02)		(0.47)		(0.50)	(0.05)
<b>Silver carp</b>	0.01	0.35				
	(0.01)	(0.35)				
<b>Bighead carp</b>	0.05	0.24				0.16
	(0.05)	(0.24)				(0.16)
<b>Silver chub</b>	0.12		0.33	0.09		0.21
	(0.07)		(0.26)	(0.09)		(0.12)
<b>Golden shiner</b>	0.00	0.06	0.08			
	(0.00)	(0.06)	(0.08)			
<b>Emerald shiner</b>	2.35	2.00	17.50	1.74	6.50	3.32
	(0.44)	(0.69)	(7.23)	(0.41)	(4.26)	(1.19)

<b>River shiner</b>	0.72	0.12	5.33	0.43	0.50	1.32
	(0.34)	(0.08)	(3.63)	(0.39)	(0.34)	(0.78)
<b>Spottail shiner</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Silverband shiner</b>	0.10	0.24	0.50	0.04	0.17	0.21
	(0.05)	(0.24)	(0.50)	(0.04)	(0.17)	(0.12)
<b>Sand shiner</b>	0.02					0.05
	(0.02)					(0.05)
<b>Channel shiner</b>	1.19	0.35	46.92	0.78		0.79
	(0.46)	(0.21)	(30.76)	(0.53)		(0.44)
<b>Unidentified shiner</b>	0.05	1.18				
	(0.04)	(1.12)				
<b>Bullhead minnow</b>	0.73	1.41	41.33	0.30	0.67	0.32
	(0.25)	(0.72)	(24.11)	(0.16)	(0.67)	(0.22)
<b>River carpsucker</b>	0.25	0.59	3.92	0.17		0.26
	(0.07)	(0.23)	(2.34)	(0.08)		(0.13)
<b>Smallmouth buffalo</b>	1.02	1.59	2.08	1.35	1.17	0.16
	(0.24)	(0.61)	(0.90)	(0.35)	(0.54)	(0.12)
<b>Bigmouth buffalo</b>	0.17	1.00	1.08	0.04	0.33	0.32
	(0.06)	(0.88)	(0.68)	(0.04)	(0.21)	(0.15)
<b>Black buffalo</b>	0.08	0.18	0.08	0.04		0.16
	(0.04)	(0.10)	(0.08)	(0.04)		(0.09)
<b>Unidentified buffalo</b>	0.36	1.53	0.58	0.26		0.42

	(0.15)	(0.70)	(0.29)	(0.18)		(0.32)
<b>Shorthead redhorse</b>	0.18			0.13	0.17	0.32
	(0.06)			(0.07)	(0.17)	(0.13)
<b>Black bullhead</b>	0.00	0.06				
	(0.00)	(0.06)				
<b>Blue catfish</b>	0.04			0.04		0.05
	(0.03)			(0.04)		(0.05)
<b>Channel catfish</b>	2.31	0.59	2.75	2.04	3.17	3.16
	(0.45)	(0.17)	(1.37)	(0.56)	(1.14)	(0.91)
<b>Stonecat</b>	0.00				0.17	
	(0.00)				(0.17)	
<b>Flathead catfish</b>	0.46	0.12	0.25	0.43	1.50	0.58
	(0.12)	(0.08)	(0.18)	(0.16)	(0.96)	(0.21)
<b>Western mosquitofish</b>	0.02					0.05
	(0.02)					(0.05)
<b>Brook silverside</b>	0.00		0.08		0.17	
	(0.00)		(0.08)		(0.17)	
<b>White bass</b>	2.95	1.76	3.50	3.30	2.17	2.26
	(0.47)	(0.82)	(1.23)	(0.67)	(0.87)	(0.51)
<b>Yellow bass</b>	0.07	0.24	0.25	0.09		
	(0.04)	(0.18)	(0.13)	(0.06)		
<b>Striped x white bass</b>	0.02					0.05
	(0.02)					(0.05)

<b>Green sunfish</b>	1.22	1.65	3.83	1.39	5.00	0.68
	(0.40)	(0.73)	(1.96)	(0.57)	(1.39)	(0.43)
<b>Warmouth</b>	0.10	0.18	1.08	0.13	0.17	
	(0.09)	(0.10)	(0.91)	(0.13)	(0.17)	
<b>Orangespotted sunfish</b>	0.71	7.76	10.08	0.43	0.17	0.05
	(0.19)	(1.86)	(6.33)	(0.24)	(0.17)	(0.05)
<b>Bluegill</b>	3.76	8.47	14.08	3.52	1.67	3.32
	(1.41)	(5.41)	(7.47)	(1.94)	(0.49)	(1.87)
<b>Redear sunfish</b>	0.00		0.08			
	(0.00)		(0.08)			
<b>Green x bluegill sunfish</b>	0.03		0.08	0.04	0.17	
	(0.03)		(0.08)	(0.04)	(0.17)	
<b>Smallmouth bass</b>	0.03			0.04		
	(0.03)			(0.04)		
<b>Largemouth bass</b>	1.93	2.71	5.67	1.91	3.33	1.74
	(0.50)	(0.99)	(1.65)	(0.70)	(1.96)	(0.60)
<b>White crappie</b>	0.08	0.94	0.17			0.16
	(0.06)	(0.82)	(0.11)			(0.16)
<b>Black crappie</b>	0.17	0.65	1.08	0.09		0.26
	(0.07)	(0.65)	(0.83)	(0.06)		(0.18)
<b>Logperch</b>	0.18			0.13	0.67	0.32
	(0.09)			(0.10)	(0.33)	(0.22)
<b>River darter</b>	0.09			0.09		0.11

	(0.05)			(0.06)		(0.11)
<b>Sauger</b>	0.58	0.35	0.92	0.65		0.42
	(0.30)	(0.24)	(0.36)	(0.44)		(0.22)
<b>Freshwater drum</b>	3.94	7.06	6.00	3.70	0.83	4.00
	(0.70)	(2.23)	(2.99)	(0.95)	(0.54)	(1.01)

**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/2001/pool\\_26/tb3\\_\\_al0003.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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
<b>Spotted gar</b>	0.06	0.08	
	(0.06)	(0.08)	
<b>Shortnose gar</b>	6.30	6.24	6.56
	(1.00)	(1.19)	(1.55)
<b>Bowfin</b>	0.75	0.92	
	(0.46)	(0.57)	
<b>Gizzard shad</b>	0.43	0.50	0.10
	(0.24)	(0.29)	(0.10)
<b>Threadfin shad</b>	0.12	0.08	0.26
	(0.08)	(0.08)	(0.19)
<b>Common carp</b>	0.98	1.08	0.55
	(0.34)	(0.42)	(0.22)
<b>Bighead carp</b>	0.27	0.33	

	(0.15)	(0.19)	
<b>River carpsucker</b>	0.13	0.08	0.35
	(0.07)	(0.08)	(0.20)
<b>Smallmouth buffalo</b>	0.07	0.08	
	(0.07)	(0.08)	
<b>Bigmouth buffalo</b>	0.07	0.08	
	(0.07)	(0.08)	
<b>Unidentified buffalo</b>	0.13	0.16	
	(0.09)	(0.11)	
<b>Shorthead redhorse</b>	0.07	0.09	
	(0.07)	(0.09)	
<b>Channel catfish</b>	0.73	0.66	1.00
	(0.24)	(0.28)	(0.33)
<b>Flathead catfish</b>	0.15	0.16	0.09
	(0.13)	(0.16)	(0.09)
<b>White bass</b>	10.82	11.55	7.68
	(3.74)	(4.60)	(2.70)
<b>Yellow bass</b>	0.08	0.08	0.09
	(0.07)	(0.08)	(0.09)
<b>Green sunfish</b>	0.17	0.17	0.17
	(0.10)	(0.11)	(0.17)
<b>Warmouth</b>	0.30	0.33	0.20
	(0.27)	(0.33)	(0.20)

<b>Orangespotted sunfish</b>	1.52	1.73	0.60
	(0.91)	(1.13)	(0.30)
<b>Bluegill</b>	9.31	9.74	7.44
	(2.32)	(2.82)	(2.48)
<b>Green x bluegill sunfish</b>	0.02		0.09
	(0.02)		(0.09)
<b>Largemouth bass</b>	0.20	0.16	0.34
	(0.10)	(0.11)	(0.19)
<b>White crappie</b>	4.16	4.90	0.95
	(1.05)	(1.30)	(0.23)
<b>Black crappie</b>	5.60	5.24	7.16
	(1.20)	(1.45)	(1.55)
<b>Sauger</b>	0.02		0.09
	(0.02)		(0.09)
<b>Freshwater drum</b>	0.94	1.06	0.41
	(0.31)	(0.38)	(0.28)

**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/2001/pool\\_26/tb3\\_\\_al0004.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/pool_26/tb3__al0004.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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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 2001. 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>	2.04	3.06	1.34
	(0.73)	(0.70)	(1.14)
<b>Gizzard shad</b>	0.71	1.60	0.09
	(0.42)	(1.03)	(0.09)
<b>Threadfin shad</b>	0.08	0.08	0.09
	(0.06)	(0.08)	(0.09)
<b>Common carp</b>	0.40	0.85	0.09
	(0.18)	(0.43)	(0.09)
<b>Bigmouth buffalo</b>	0.14	0.34	
	(0.10)	(0.25)	
<b>Unidentified buffalo</b>	0.30	0.73	
	(0.23)	(0.56)	
<b>Channel catfish</b>	0.52	0.16	0.78

	(0.17)	(0.10)	(0.28)
<b>Flathead catfish</b>	0.04		0.07
	(0.04)		(0.07)
<b>White bass</b>	1.79	3.90	0.32
	(0.51)	(1.24)	(0.10)
<b>Warmouth</b>	0.04		0.07
	(0.04)		(0.07)
<b>Orangespotted sunfish</b>	0.04		0.07
	(0.04)		(0.07)
<b>Bluegill</b>	1.29	0.58	1.78
	(0.58)	(0.30)	(0.96)
<b>Largemouth bass</b>	0.03	0.08	
	(0.03)	(0.08)	
<b>White crappie</b>	1.12	0.58	1.49
	(0.48)	(0.15)	(0.82)
<b>Black crappie</b>	1.22	0.41	1.79
	(0.83)	(0.15)	(1.41)
<b>Sauger</b>	0.18		0.31
	(0.13)		(0.22)
<b>Freshwater drum</b>	0.64	0.08	1.03
	(0.26)	(0.08)	(0.44)

**Sampling strata:**  
**BWCO - Backwater, contiguous, offshore**  
**IMPO - Impounded, offshore**


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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 2001. 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>Shortnose gar</b>	0.89	5.55	2.34	0.68	0.53	0.67
	(0.31)	(1.20)	(1.87)	(0.43)	(0.53)	(0.32)
<b>Bowfin</b>	0.01	0.16				
	(0.01)	(0.16)				
<b>Mooneye</b>	0.08					0.27
	(0.08)					(0.27)
<b>Skipjack herring</b>	0.01	0.26				
	(0.01)	(0.26)				
<b>Gizzard shad</b>	0.48	0.24	0.20	0.32	0.52	0.91
	(0.21)	(0.17)	(0.20)	(0.20)	(0.52)	(0.55)
<b>Threadfin shad</b>	0.03		3.37			
	(0.03)		(3.37)			
<b>Grass carp</b>	0.04		0.22			0.14

	(0.03)		(0.22)			(0.10)
<b>Red shiner</b>	1.36		0.19	1.95		0.21
	(1.30)		(0.19)	(1.95)		(0.21)
<b>Spotfin shiner</b>	4.59	12.15	15.99	4.05		4.44
	(2.35)	(7.08)	(14.77)	(3.46)		(1.21)
<b>Common carp</b>	0.10	0.92	0.20			0.21
	(0.05)	(0.51)	(0.20)			(0.15)
<b>Mississippi silvery minnow</b>	0.26	0.72	0.62	0.18	0.26	0.36
	(0.14)	(0.57)	(0.43)	(0.18)	(0.26)	(0.23)
<b>Speckled chub</b>	0.02					0.07
	(0.02)					(0.07)
<b>Silver chub</b>	0.02	0.08				0.07
	(0.02)	(0.08)				(0.07)
<b>Golden shiner</b>	0.01	0.16	0.20			
	(0.01)	(0.16)	(0.20)			
<b>Emerald shiner</b>	5.92	32.95	125.81	0.84	0.77	10.13
	(1.55)	(15.71)	(97.37)	(0.47)	(0.77)	(3.77)
<b>River shiner</b>	1.84	0.43	0.41			6.36
	(1.00)	(0.43)	(0.25)			(3.51)
<b>Spottail shiner</b>	0.19					0.65
	(0.17)					(0.58)
<b>Silverband shiner</b>	0.30	1.85	2.57			0.70
	(0.14)	(1.52)	(2.57)			(0.42)

<b>Channel shiner</b>	5.63	1.94	68.46	5.11		5.34
	(3.12)	(1.43)	(57.49)	(4.52)		(2.32)
<b>Unidentified shiner</b>	8.61	0.42	1.78	12.89		
	(8.57)	(0.34)	(1.78)	(12.89)		
<b>Bullhead minnow</b>	0.68	1.84	4.70	0.34	0.27	1.18
	(0.29)	(0.82)	(1.66)	(0.34)	(0.27)	(0.60)
<b>Creek chub</b>	0.00	0.08				
	(0.00)	(0.08)				
<b>Unidentified minnow</b>	0.21			0.31		
	(0.21)			(0.31)		
<b>River carpsucker</b>	0.06					0.21
	(0.03)					(0.11)
<b>Smallmouth buffalo</b>	0.00		0.20			
	(0.00)		(0.20)			
<b>Bigmouth buffalo</b>	0.00	0.08				
	(0.00)	(0.08)				
<b>Unidentified buffalo</b>	0.39	8.53	3.80			0.07
	(0.21)	(5.16)	(3.54)			(0.07)
<b>Brown bullhead</b>	0.00	0.09				
	(0.00)	(0.09)				
<b>Channel catfish</b>	1.77	0.58	0.43	1.00	0.77	3.75
	(0.62)	(0.42)	(0.43)	(0.68)	(0.77)	(1.50)
<b>Flathead catfish</b>	0.02					0.06

	(0.02)					(0.06)
<b>Blackstripe topminnow</b>	0.02	0.52				
	(0.02)	(0.52)				
<b>Western mosquitofish</b>	0.78	3.82	2.15	0.64		0.64
	(0.36)	(1.40)	(1.92)	(0.47)		(0.58)
<b>Brook silverside</b>	0.00	0.09				
	(0.00)	(0.09)				
<b>White bass</b>	3.86	0.67	2.08	5.29	0.78	1.03
	(2.34)	(0.26)	(0.85)	(3.51)	(0.50)	(0.36)
<b>Yellow bass</b>	0.00	0.08				
	(0.00)	(0.08)				
<b>Green sunfish</b>	0.02	0.08				0.07
	(0.02)	(0.08)				(0.07)
<b>Warmouth</b>	0.35			0.53		
	(0.35)			(0.53)		
<b>Orangespotted sunfish</b>	0.33	4.31	0.75	0.17		0.13
	(0.13)	(1.83)	(0.75)	(0.17)		(0.09)
<b>Bluegill</b>	0.28	1.73	2.74		2.14	0.64
	(0.08)	(0.74)	(1.79)		(0.87)	(0.26)
<b>Unidentified Lepomis</b>	1.96	1.57		2.44		0.95
	(1.41)	(0.77)		(2.09)		(0.95)
<b>Largemouth bass</b>	0.14	0.97	0.19	0.16		
	(0.11)	(0.56)	(0.19)	(0.16)		

<b>White crappie</b>	1.25	1.33	0.38	1.20	0.52	1.37
	(0.55)	(0.44)	(0.38)	(0.78)	(0.30)	(0.67)
<b>Black crappie</b>	0.51	1.07	0.63	0.65	0.55	0.13
	(0.31)	(0.52)	(0.43)	(0.47)	(0.55)	(0.13)
<b>Logperch</b>	0.21			0.31		
	(0.21)			(0.31)		
<b>River darter</b>	0.18	0.08	0.38	0.18		0.20
	(0.13)	(0.08)	(0.38)	(0.18)		(0.15)
<b>Unidentified darter</b>	0.52			0.79		
	(0.52)			(0.79)		
<b>Sauger</b>	0.27	0.17		0.33		0.14
	(0.22)	(0.11)		(0.33)		(0.09)
<b>Freshwater drum</b>	0.82	0.34	0.22	0.17	0.27	2.43
	(0.58)	(0.19)	(0.22)	(0.17)	(0.27)	(2.01)

**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/2001/pool\\_26/tb3\\_\\_al0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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
Shortnose gar	0.39	0.74	0.15
	(0.14)	(0.28)	(0.15)
Mooneye	0.13		0.22
	(0.13)		(0.22)
Skipjack herring	0.08	0.08	0.08
	(0.05)	(0.08)	(0.08)
Gizzard shad	0.95	2.11	0.15
	(0.79)	(1.92)	(0.15)
Threadfin shad	0.09		0.15
	(0.09)		(0.15)
Spotfin shiner	0.04		0.07
	(0.04)		(0.07)
Common carp	1.96	4.45	0.22

	(1.12)	(2.75)	(0.15)
<b>Mississippi silvery minnow</b>	0.07	0.16	
	(0.07)	(0.16)	
<b>Speckled chub</b>	0.42	1.03	
	(0.35)	(0.85)	
<b>Silver chub</b>	0.04	0.09	
	(0.03)	(0.09)	
<b>Emerald shiner</b>	7.02	16.71	0.24
	(5.88)	(14.40)	(0.16)
<b>River shiner</b>	0.04	0.09	
	(0.04)	(0.09)	
<b>Spottail shiner</b>	0.10	0.25	
	(0.07)	(0.17)	
<b>Silverband shiner</b>	1.05	2.32	0.16
	(0.72)	(1.75)	(0.16)
<b>Channel shiner</b>	2.54	5.42	0.52
	(1.05)	(2.51)	(0.37)
<b>Unidentified shiner</b>	0.45	1.10	
	(0.23)	(0.56)	
<b>Bullhead minnow</b>	0.74	0.17	1.14
	(0.45)	(0.11)	(0.76)
<b>Unidentified carpsucker</b>	0.17	0.41	
	(0.17)	(0.41)	

<b>Smallmouth buffalo</b>	0.04	0.09	
	(0.04)	(0.09)	
<b>Unidentified buffalo</b>	2.48	5.71	0.22
	(1.54)	(3.76)	(0.15)
<b>Channel catfish</b>	0.38	0.17	0.53
	(0.17)	(0.11)	(0.28)
<b>Flathead catfish</b>	0.14	0.35	
	(0.14)	(0.35)	
<b>Pirate perch</b>	0.03	0.08	
	(0.03)	(0.08)	
<b>Western mosquitofish</b>	0.10	0.25	
	(0.07)	(0.18)	
<b>White bass</b>	1.30	1.77	0.97
	(0.56)	(1.00)	(0.64)
<b>Warmouth</b>	0.04		0.08
	(0.04)		(0.08)
<b>Orangespotted sunfish</b>	0.54	1.19	0.08
	(0.22)	(0.53)	(0.08)
<b>Bluegill</b>	0.25	0.25	0.24
	(0.12)	(0.17)	(0.17)
<b>Unidentified Lepomis</b>	0.03	0.08	
	(0.03)	(0.08)	
<b>White crappie</b>	1.07	1.50	0.76

	(0.41)	(0.87)	(0.35)
<b>Black crappie</b>	0.19	0.09	0.26
	(0.08)	(0.09)	(0.12)
<b>River darter</b>	0.31	0.32	0.30
	(0.17)	(0.32)	(0.19)
<b>Sauger</b>	1.37	0.24	2.17
	(0.83)	(0.24)	(1.40)
<b>Freshwater drum</b>	3.39	6.21	1.42
	(1.25)	(3.01)	(0.39)

**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/2001/pool\\_26/tb3\\_\\_al0007.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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	MCBW	SCB
<b>Shortnose gar</b>	0.01			0.02
	(0.01)			(0.02)
<b>Gizzard shad</b>	0.01	0.02		
	(0.01)	(0.02)		
<b>Common carp</b>	0.16	0.12		0.23
	(0.06)	(0.07)		(0.09)
<b>Silver chub</b>	0.02	0.02		0.02
	(0.01)	(0.02)		(0.02)
<b>Smallmouth buffalo</b>	0.12	0.11	0.09	0.16
	(0.05)	(0.06)	(0.09)	(0.06)
<b>Bigmouth buffalo</b>	0.01	0.02		
	(0.01)	(0.02)		
<b>Black buffalo</b>	0.01			0.05

	(0.01)			(0.03)
<b>Blue catfish</b>	3.35	4.66	0.44	0.30
	(1.27)	(1.81)	(0.44)	(0.09)
<b>Channel catfish</b>	23.39	30.89	2.06	5.97
	(8.04)	(11.45)	(1.32)	(2.72)
<b>Freckled madtom</b>	0.01	0.02		
	(0.01)	(0.02)		
<b>Flathead catfish</b>	0.19	0.16	0.43	0.27
	(0.05)	(0.06)	(0.16)	(0.11)
<b>White bass</b>	0.03	0.03		0.02
	(0.02)	(0.02)		(0.02)
<b>Bluegill</b>	0.05	0.05		0.05
	(0.04)	(0.05)		(0.05)
<b>White crappie</b>	0.02			0.07
	(0.02)			(0.07)
<b>Black crappie</b>	0.01			0.02
	(0.01)			(0.02)
<b>Freshwater drum</b>	0.30	0.37	0.34	0.13
	(0.09)	(0.13)	(0.22)	(0.08)

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


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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 2001. 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	MCBW	SCB
<b>Shovelnose sturgeon</b>	0.01	0.02		
	(0.01)	(0.02)		
<b>Shortnose gar</b>	0.06	0.09		
	(0.03)	(0.04)		
<b>Gizzard shad</b>	0.01	0.02	0.08	
	(0.01)	(0.02)	(0.08)	
<b>Grass carp</b>	0.01	0.02		
	(0.01)	(0.02)		
<b>Common carp</b>	0.30	0.11		0.74
	(0.14)	(0.06)		(0.45)
<b>River carpsucker</b>	0.01	0.02		
	(0.01)	(0.02)		
<b>Blue sucker</b>	0.01	0.02		

	(0.01)	(0.02)		
<b>Smallmouth buffalo</b>	2.13	2.21	1.39	1.94
	(0.53)	(0.66)	(0.40)	(0.91)
<b>Bigmouth buffalo</b>	0.01	0.02		
	(0.01)	(0.02)		
<b>Black buffalo</b>	0.02	0.04	0.09	
	(0.02)	(0.02)	(0.09)	
<b>Shorthead redhorse</b>	0.00		0.08	
	(0.00)		(0.08)	
<b>Blue catfish</b>	0.94	1.33	0.17	0.05
	(0.44)	(0.62)	(0.17)	(0.03)
<b>Channel catfish</b>	1.01	1.07	0.17	0.86
	(0.24)	(0.27)	(0.11)	(0.47)
<b>Flathead catfish</b>	0.14	0.17		0.07
	(0.04)	(0.05)		(0.04)
<b>White bass</b>	0.10	0.14		0.02
	(0.06)	(0.08)		(0.02)
<b>Freshwater drum</b>	1.75	2.37	0.61	0.29
	(0.61)	(0.87)	(0.43)	(0.10)

**Sampling strata:****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 2001. 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>Shortnose gar</b>	0.08	0.09	0.06
	(0.03)	(0.04)	(0.04)
<b>Mooneye</b>	0.14	0.17	0.06
	(0.08)	(0.12)	(0.04)
<b>Skipjack herring</b>	0.16	0.23	
	(0.13)	(0.19)	
<b>Gizzard shad</b>	10.01	12.40	4.44
	(3.58)	(5.03)	(2.19)
<b>Threadfin shad</b>	0.03	0.02	0.06
	(0.02)	(0.02)	(0.04)
<b>Red shiner</b>	0.19	0.26	0.03
	(0.11)	(0.16)	(0.03)
<b>Spotfin shiner</b>	2.58	2.60	2.53

	(1.14)	(1.60)	(0.84)
<b>Common carp</b>	0.02	0.02	0.03
	(0.02)	(0.02)	(0.03)
<b>Mississippi silvery minnow</b>	0.12	0.09	0.19
	(0.04)	(0.04)	(0.09)
<b>Speckled chub</b>	0.03		0.08
	(0.02)		(0.06)
<b>Silver chub</b>	0.12	0.11	0.14
	(0.06)	(0.09)	(0.06)
<b>Emerald shiner</b>	11.23	9.38	15.53
	(2.81)	(3.50)	(4.64)
<b>River shiner</b>	2.55	1.60	4.78
	(0.94)	(0.55)	(2.86)
<b>Silverband shiner</b>	0.03		0.08
	(0.02)		(0.06)
<b>Sand shiner</b>	0.02		0.06
	(0.01)		(0.04)
<b>Channel shiner</b>	3.87	4.28	2.92
	(1.32)	(1.82)	(1.21)
<b>Unidentified shiner</b>	0.44	0.04	1.36
	(0.28)	(0.04)	(0.92)
<b>Bullhead minnow</b>	0.27	0.09	0.69
	(0.11)	(0.04)	(0.36)

<b>River carpsucker</b>	0.17	0.13	0.28
	(0.06)	(0.07)	(0.12)
<b>Smallmouth buffalo</b>	0.05	0.06	0.03
	(0.03)	(0.04)	(0.03)
<b>Bigmouth buffalo</b>	0.01	0.02	
	(0.01)	(0.02)	
<b>Unidentified buffalo</b>	0.15	0.15	0.17
	(0.07)	(0.08)	(0.12)
<b>Channel catfish</b>	0.50	0.66	0.14
	(0.16)	(0.23)	(0.08)
<b>Flathead catfish</b>	0.01	0.02	
	(0.01)	(0.02)	
<b>Western mosquitofish</b>	0.08	0.06	0.11
	(0.04)	(0.05)	(0.07)
<b>Brook silverside</b>	0.04		0.14
	(0.02)		(0.07)
<b>White bass</b>	0.70	0.62	0.89
	(0.22)	(0.30)	(0.25)
<b>Orangespotted sunfish</b>	0.04	0.04	0.03
	(0.02)	(0.03)	(0.03)
<b>Bluegill</b>	0.01		0.03
	(0.01)		(0.03)
<b>Smallmouth bass</b>	0.01		0.03

	(0.01)		(0.03)
<b>White crappie</b>	0.04	0.04	0.03
	(0.03)	(0.04)	(0.03)
<b>Sauger</b>	0.05	0.04	0.08
	(0.03)	(0.04)	(0.05)
<b>Freshwater drum</b>	0.80	0.66	1.11
	(0.17)	(0.16)	(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/2001/pool\\_26/tb3\\_\\_al0010.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/pool_26/tb3__al0010.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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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 2001. 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 2001. 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>Paddlefish</b>	0.17
	(0.17)
<b>Longnose gar</b>	0.50
	(0.22)
<b>Shortnose gar</b>	33.50
	(12.82)
<b>Goldeye</b>	0.83
	(0.31)
<b>Skipjack herring</b>	0.17
	(0.17)
<b>Gizzard shad</b>	57.17
	(17.08)
<b>Grass carp</b>	0.17
	(0.17)

<b>Spotfin shiner</b>	0.17
	(0.17)
<b>Common carp</b>	17.50
	(3.42)
<b>Mississippi silvery minnow</b>	0.17
	(0.17)
<b>Silver carp</b>	0.50
	(0.34)
<b>Emerald shiner</b>	4.00
	(1.63)
<b>Silverband shiner</b>	0.83
	(0.65)
<b>Channel shiner</b>	0.50
	(0.34)
<b>River carpsucker</b>	0.83
	(0.31)
<b>Smallmouth buffalo</b>	1.00
	(0.63)
<b>Bigmouth buffalo</b>	0.67
	(0.42)
<b>Black buffalo</b>	0.17
	(0.17)
<b>Channel catfish</b>	0.83

	(0.31)
<b>Flathead catfish</b>	0.83
	(0.54)
<b>White bass</b>	37.83
	(7.35)
<b>Yellow bass</b>	0.17
	(0.17)
<b>Green sunfish</b>	0.33
	(0.21)
<b>Orangespotted sunfish</b>	0.50
	(0.50)
<b>Bluegill</b>	5.17
	(1.47)
<b>Green x bluegill sunfish</b>	0.17
	(0.17)
<b>Largemouth bass</b>	0.17
	(0.17)
<b>White crappie</b>	1.17
	(0.40)
<b>Black crappie</b>	2.00
	(0.63)
<b>Logperch</b>	0.33
	(0.21)

<b>Sauger</b>	7.67
	(5.70)
<b>Walleye</b>	0.50
	(0.34)
<b>Freshwater drum</b>	22.67
	(8.13)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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 2001. 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	0.17
	(0.11)
Shovelnose sturgeon	1.67
	(0.62)
Shortnose gar	0.08
	(0.08)
Gizzard shad	0.83
	(0.44)
Common carp	0.08
	(0.08)
Speckled chub	3.17
	(2.73)
Silver chub	0.33
	(0.22)

<b>Silverband shiner</b>	0.08
	(0.08)
<b>Channel shiner</b>	0.08
	(0.08)
<b>Blue catfish</b>	10.67
	(4.94)
<b>Channel catfish</b>	31.67
	(13.89)
<b>Sauger</b>	0.08
	(0.08)
<b>Walleye</b>	0.08
	(0.08)
<b>Freshwater drum</b>	3.58
	(2.21)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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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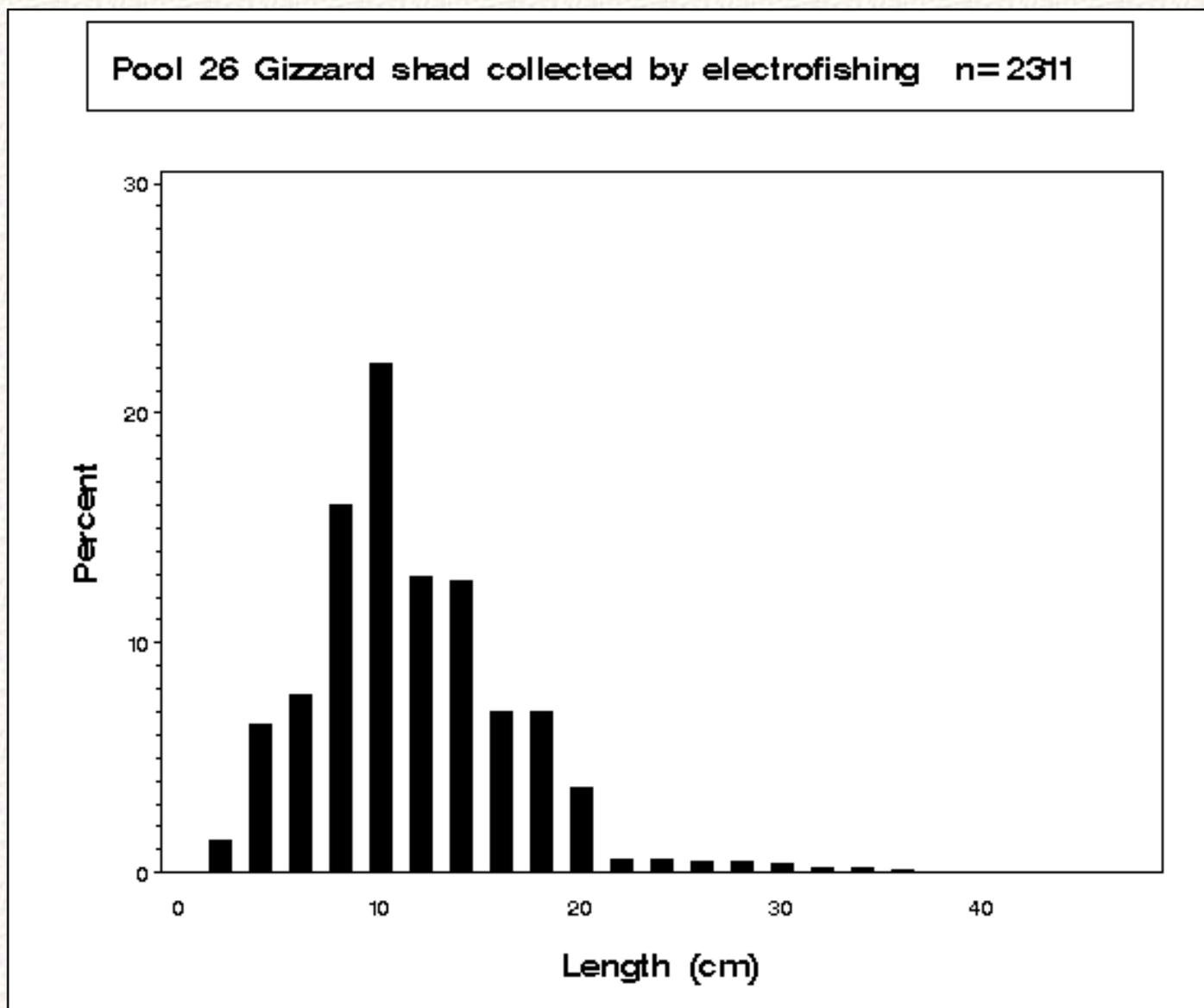
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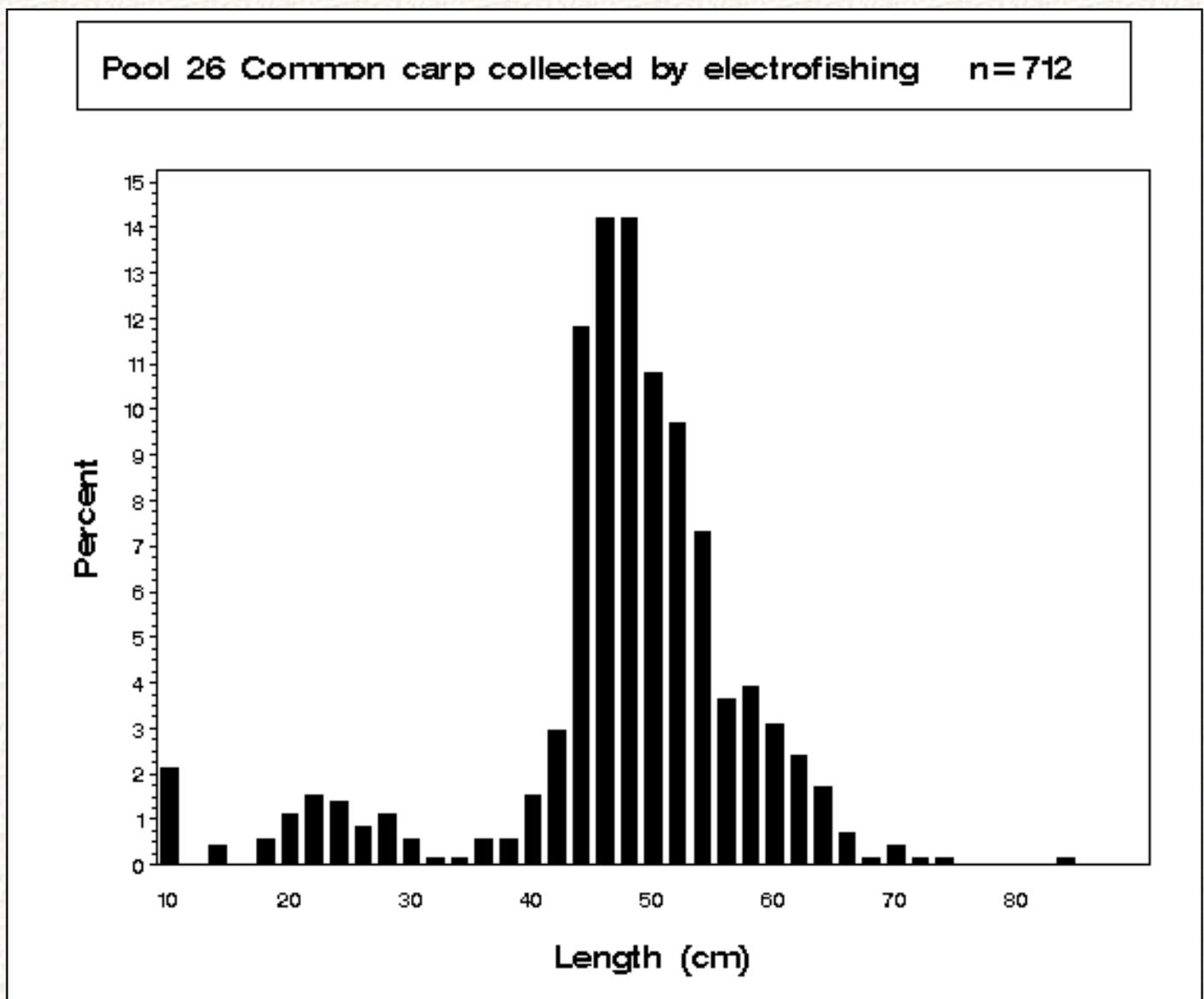
**Figure 2.4** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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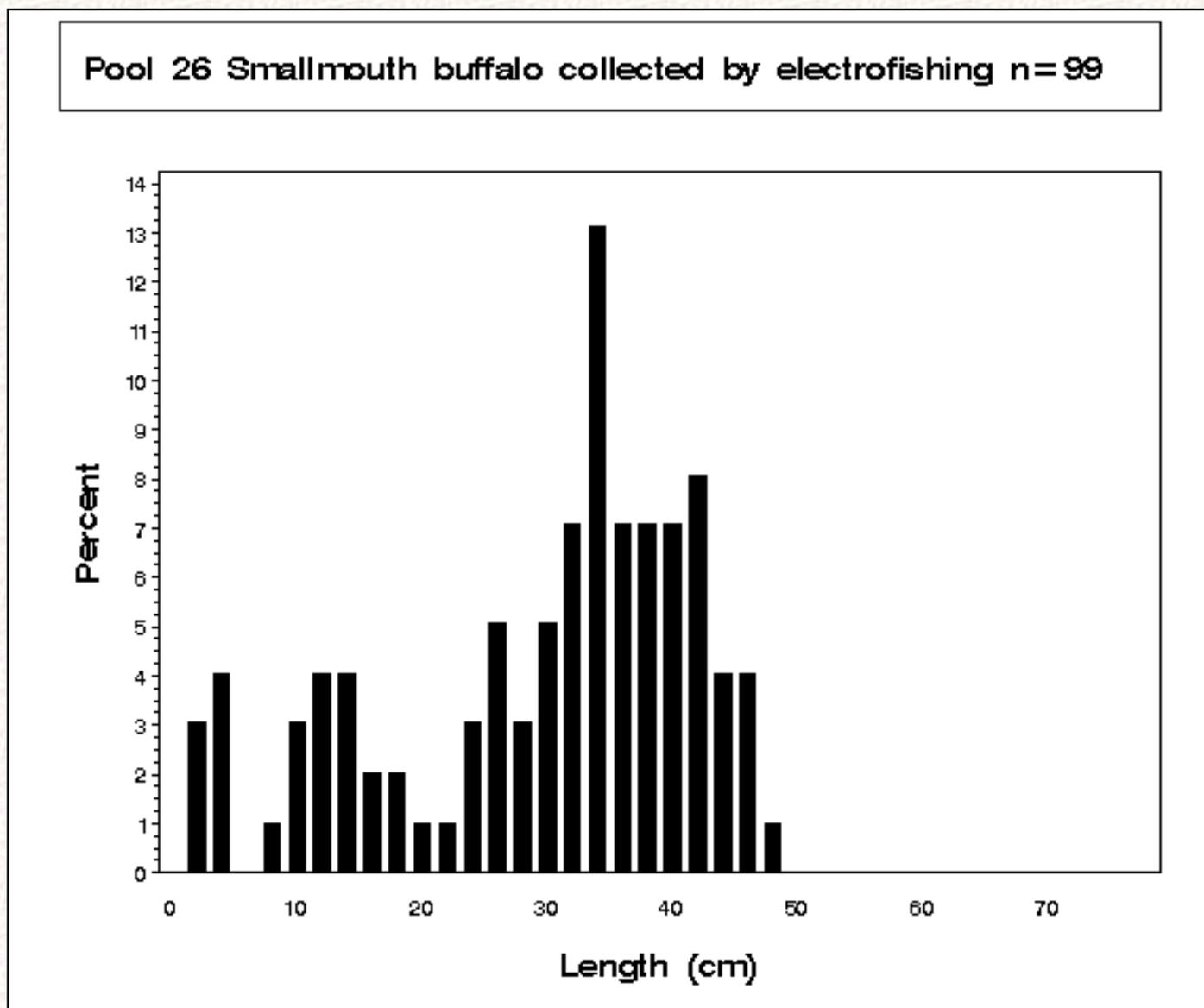
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**Figure 3.4** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



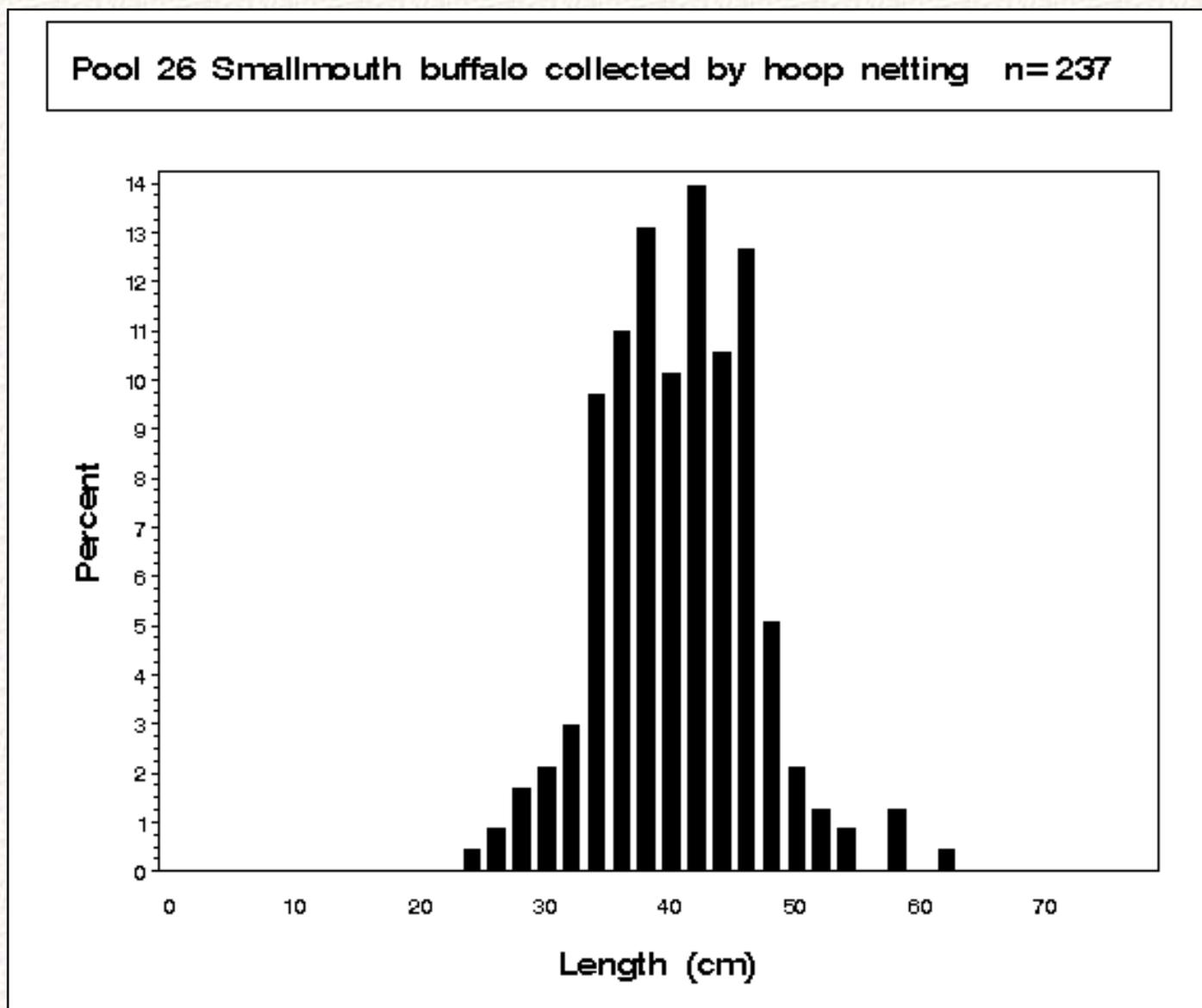
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**Figure 4.4** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



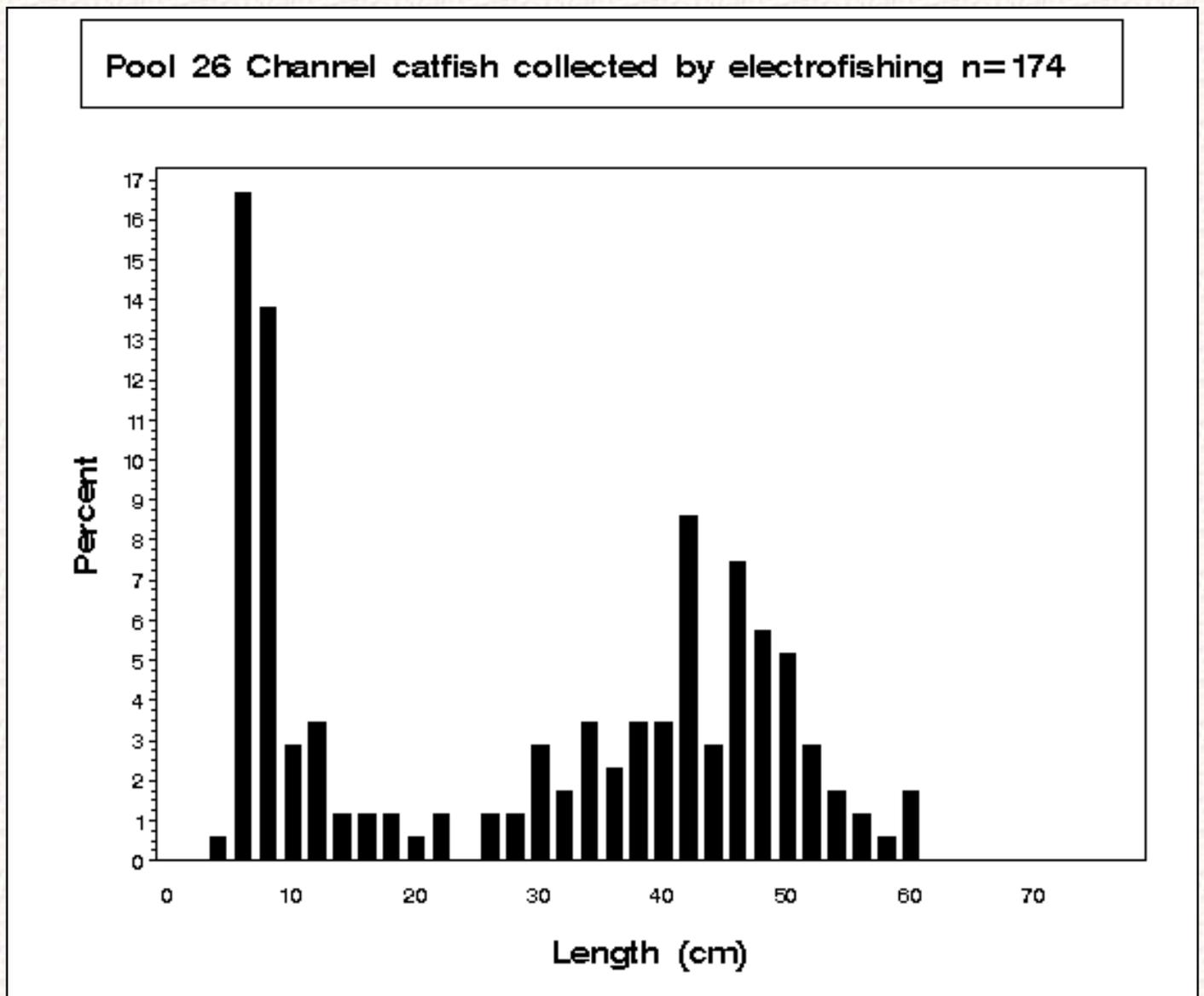
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**Figure 5.4** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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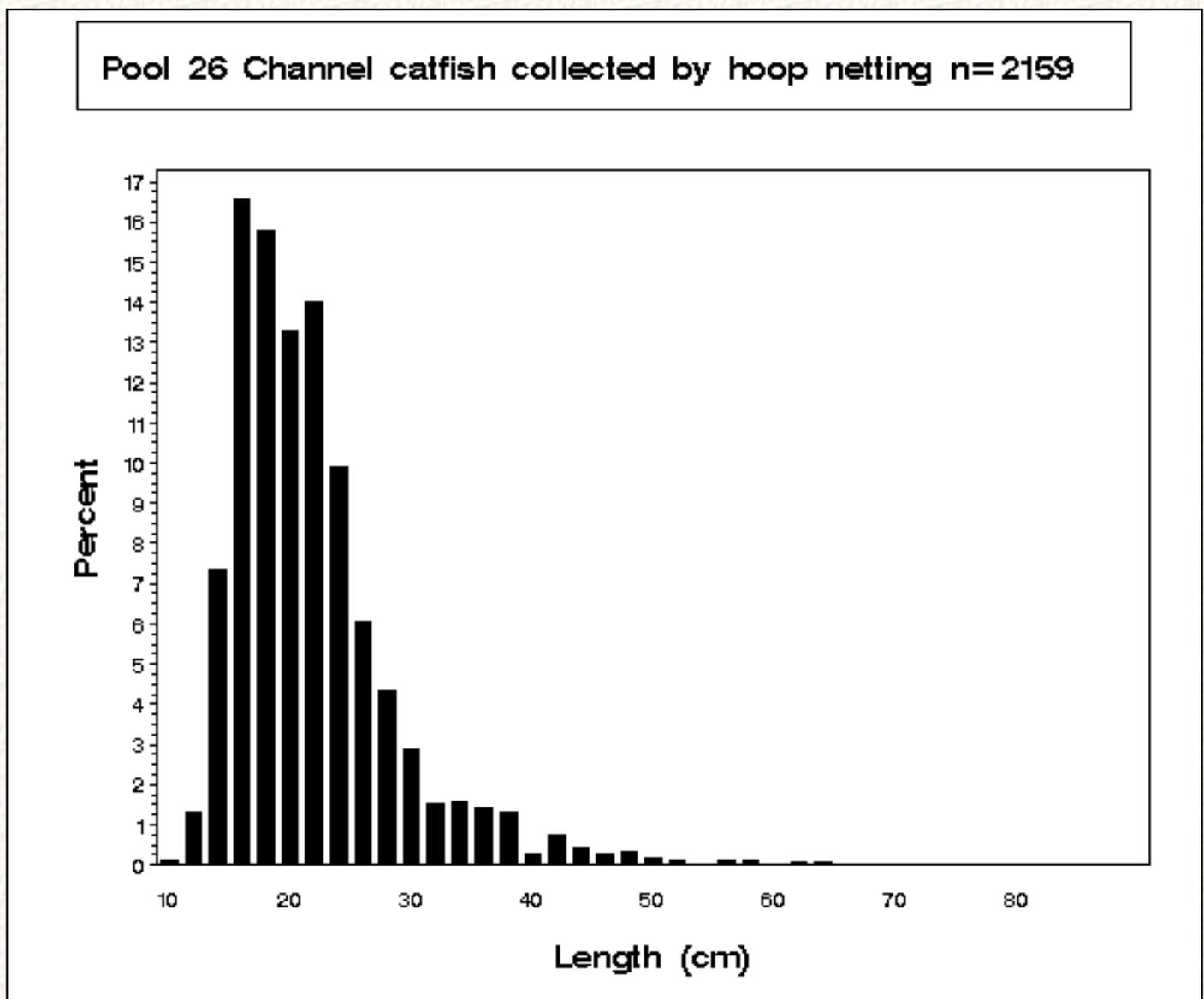
**Figure 6.4** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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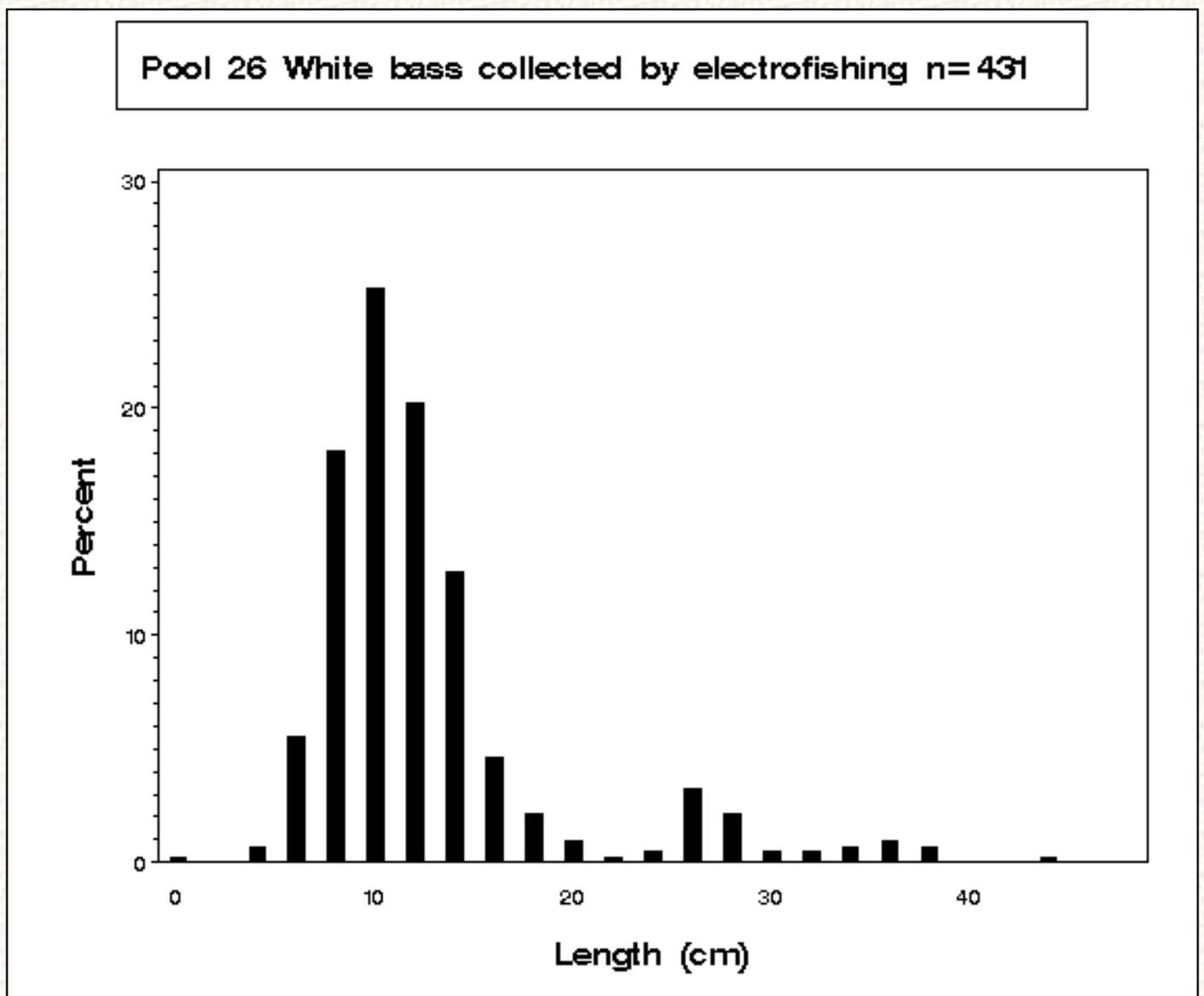
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**Figure 7.4** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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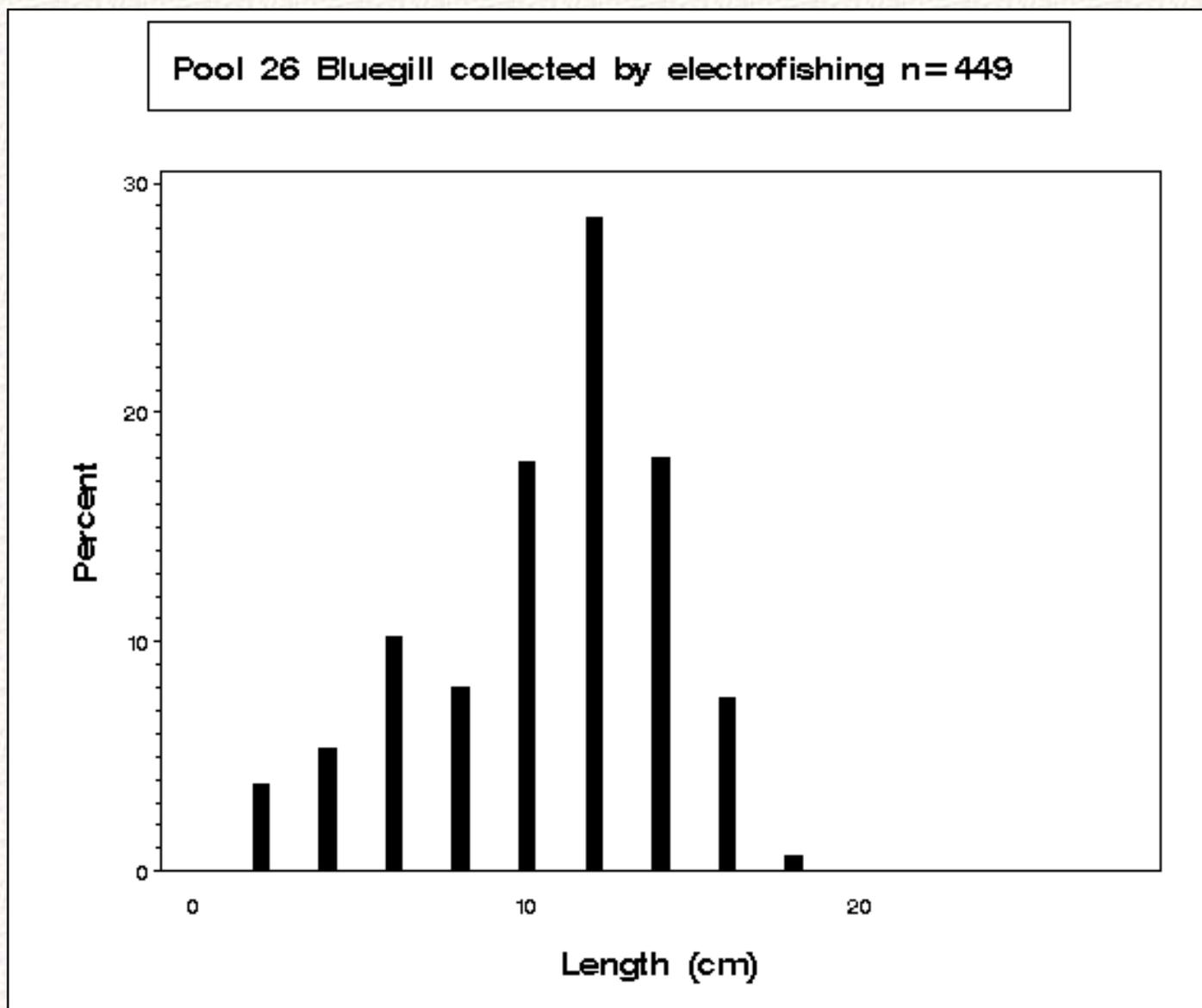
**Figure 10.4** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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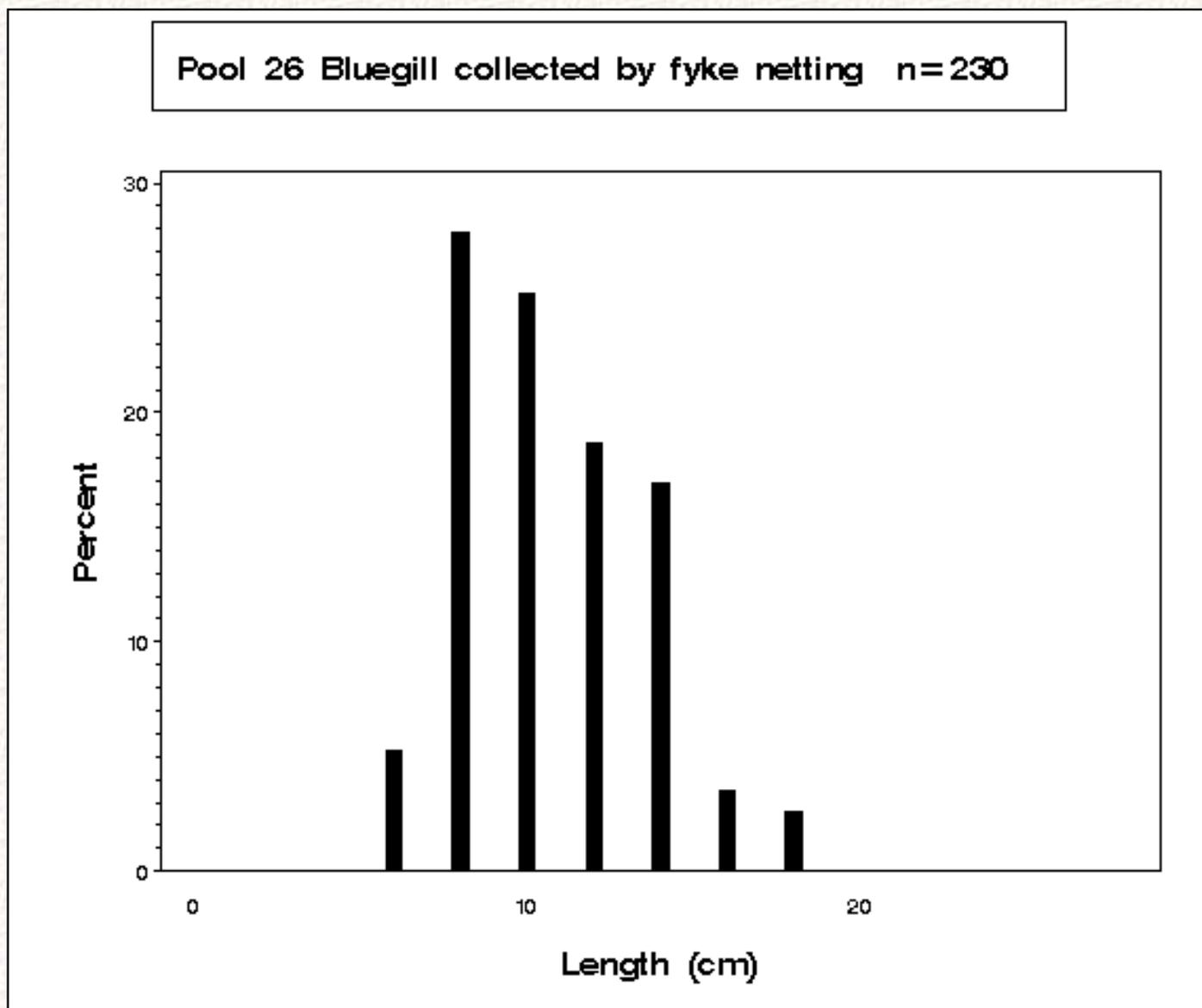
**Figure 11.4** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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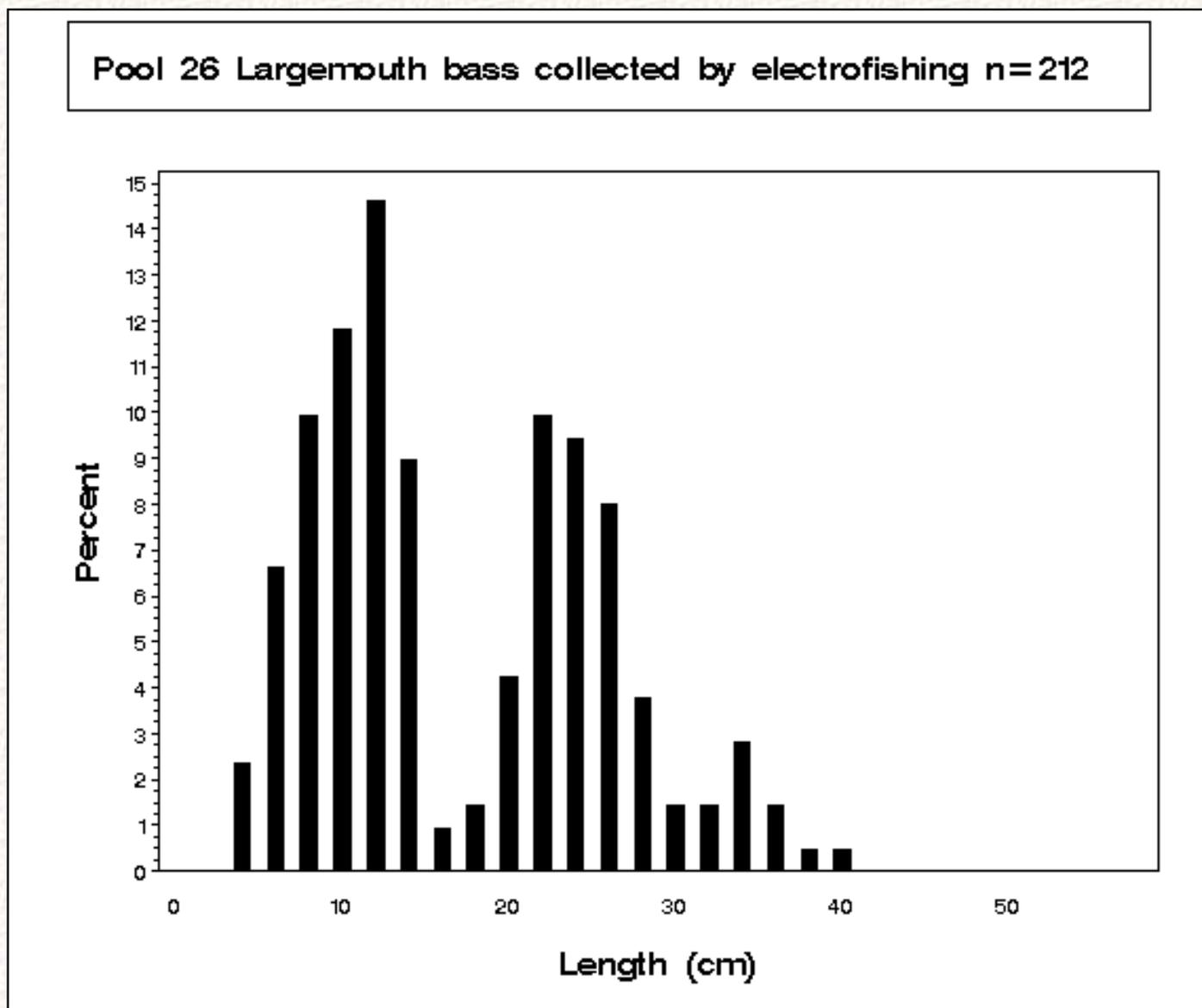
**Figure 12.4** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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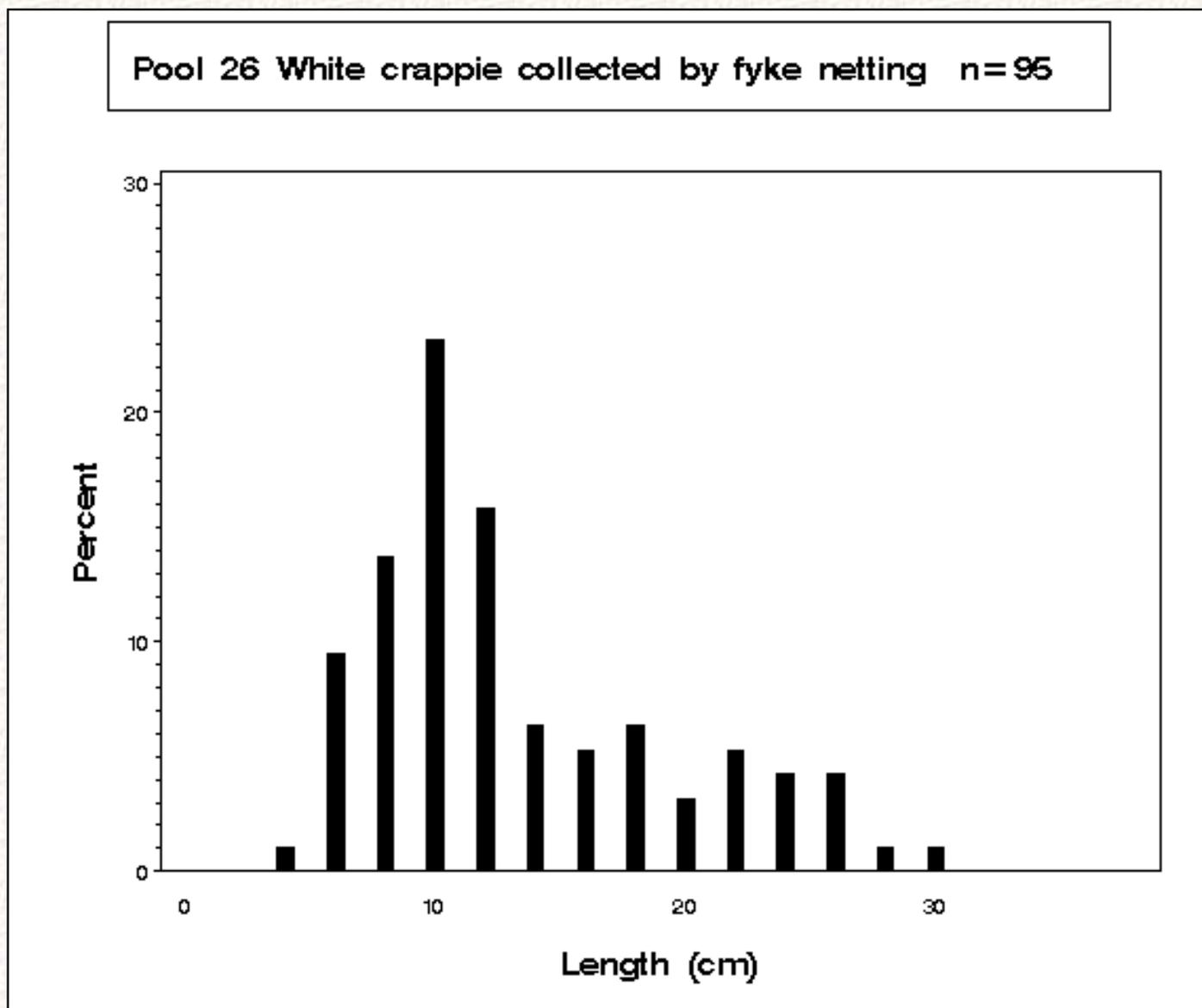
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**Figure 13.4** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



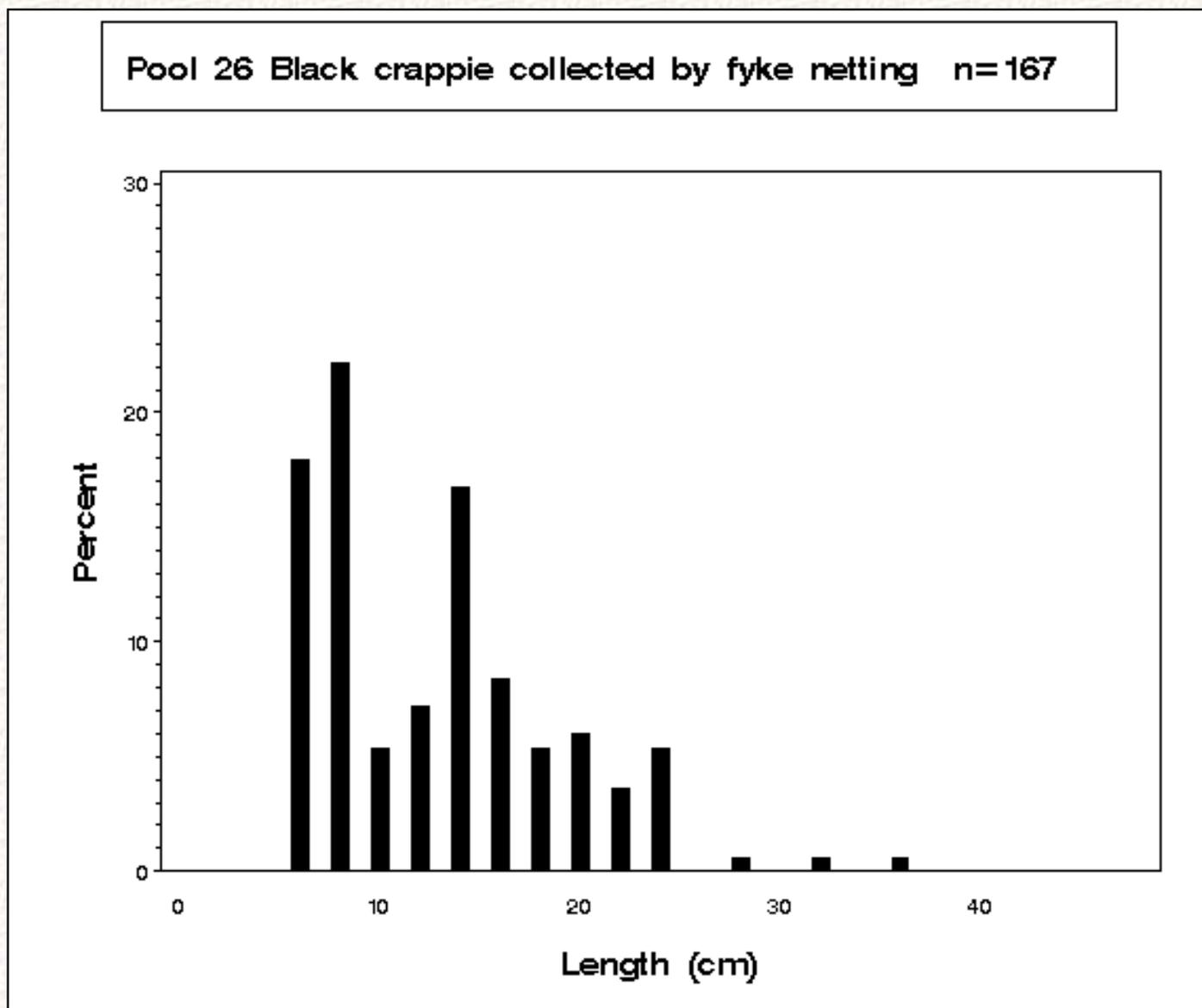
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**Figure 14.4** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



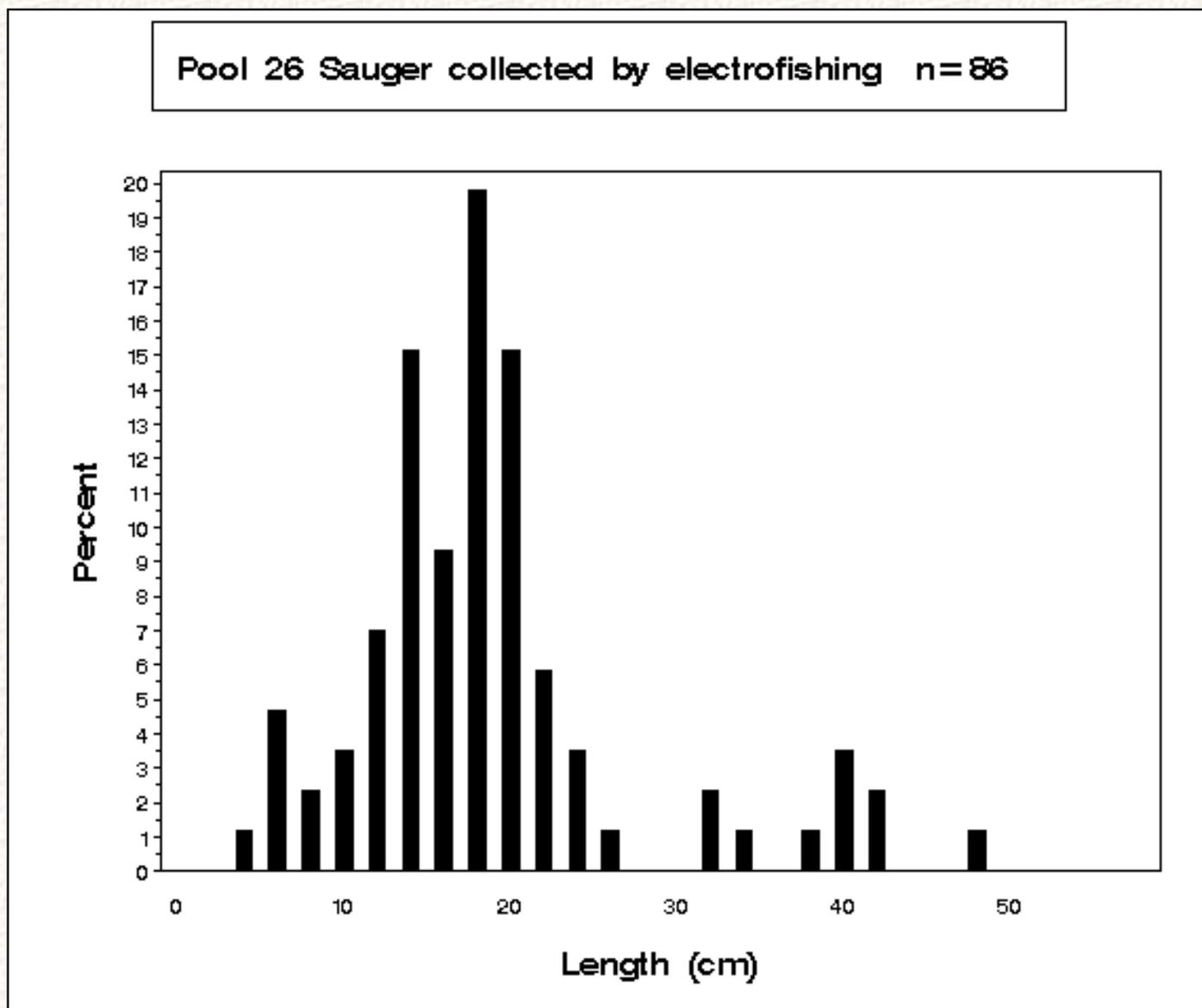
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**Figure 15.4** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



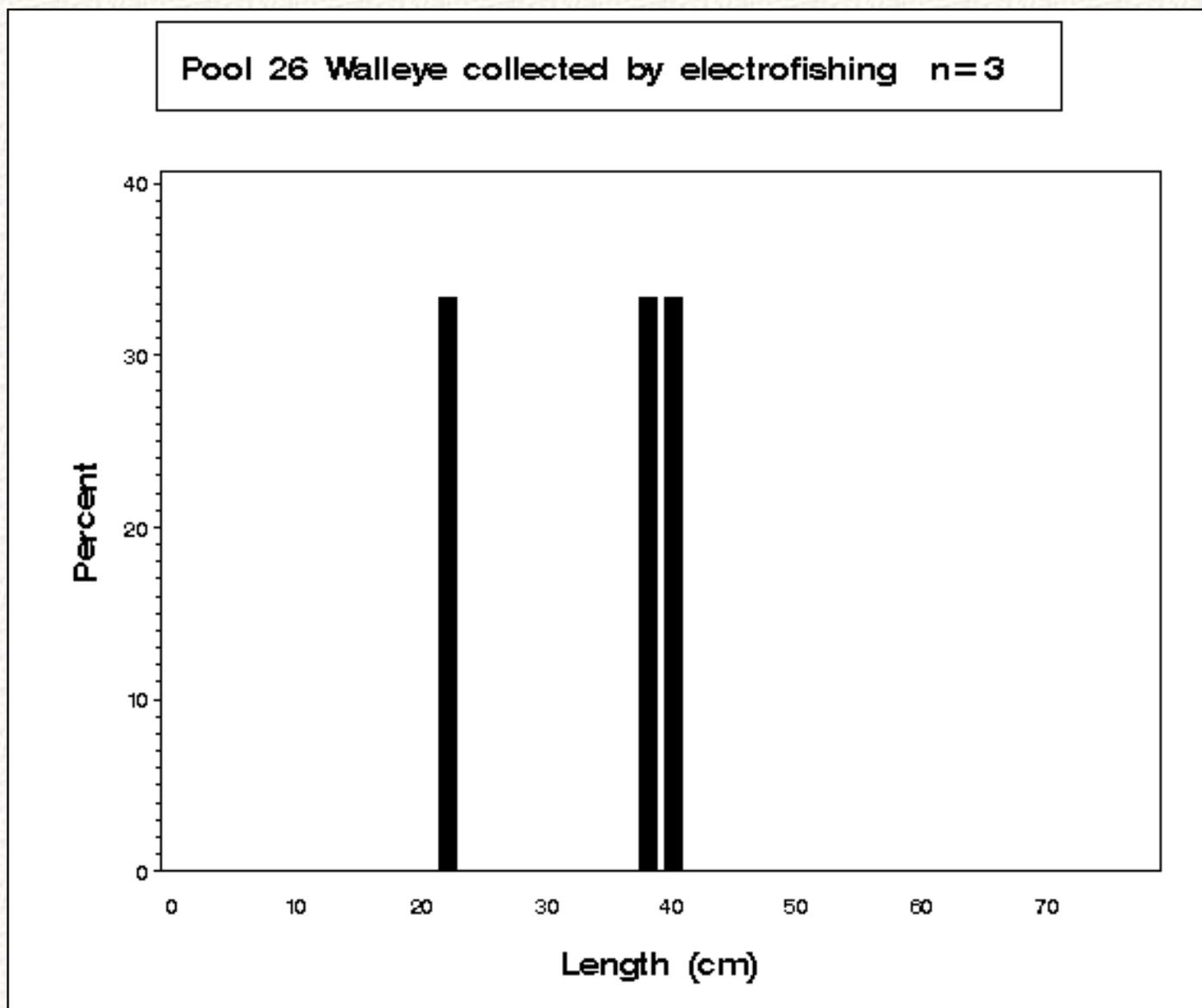
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**Figure 16.4** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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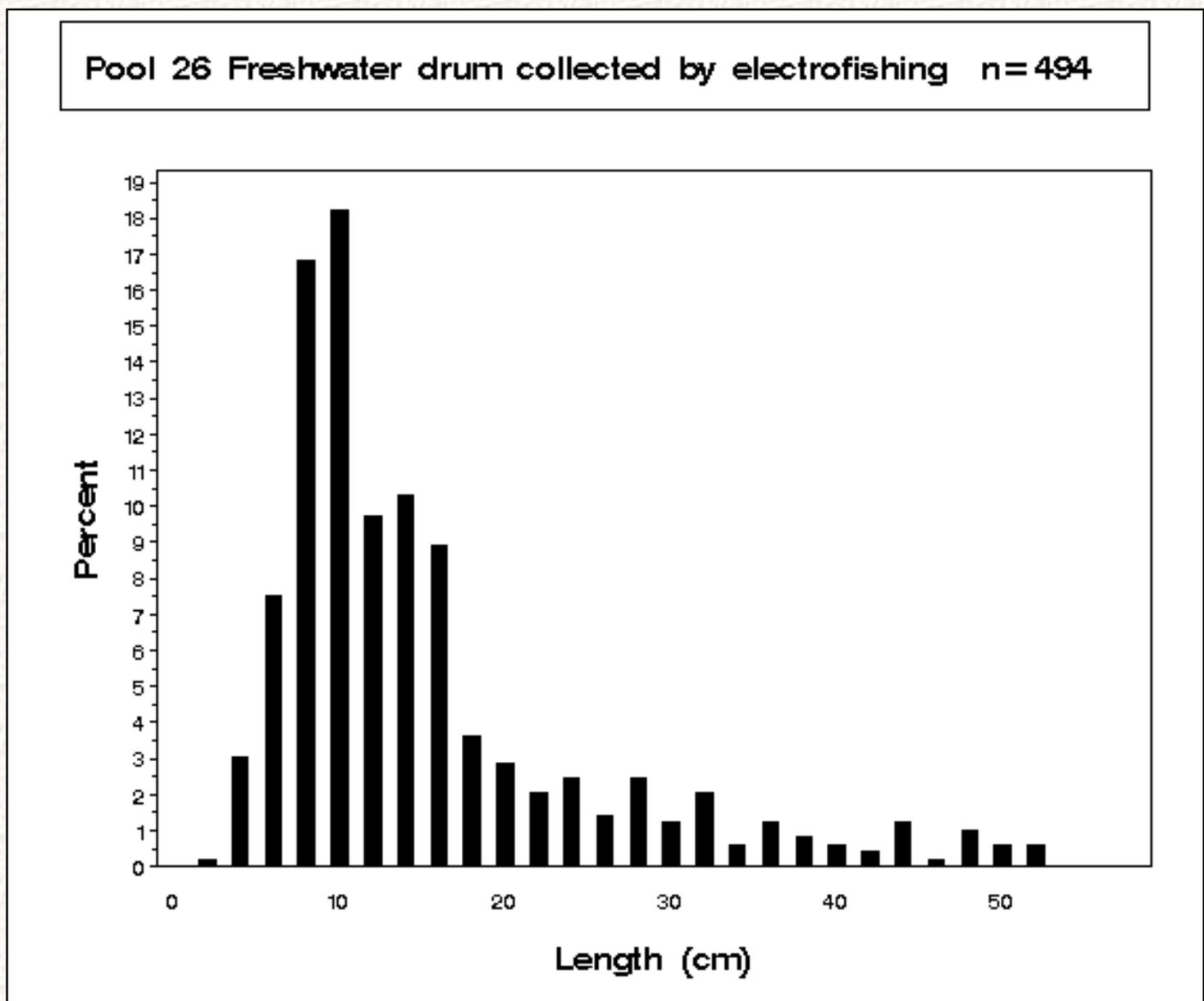
**Figure 17.4** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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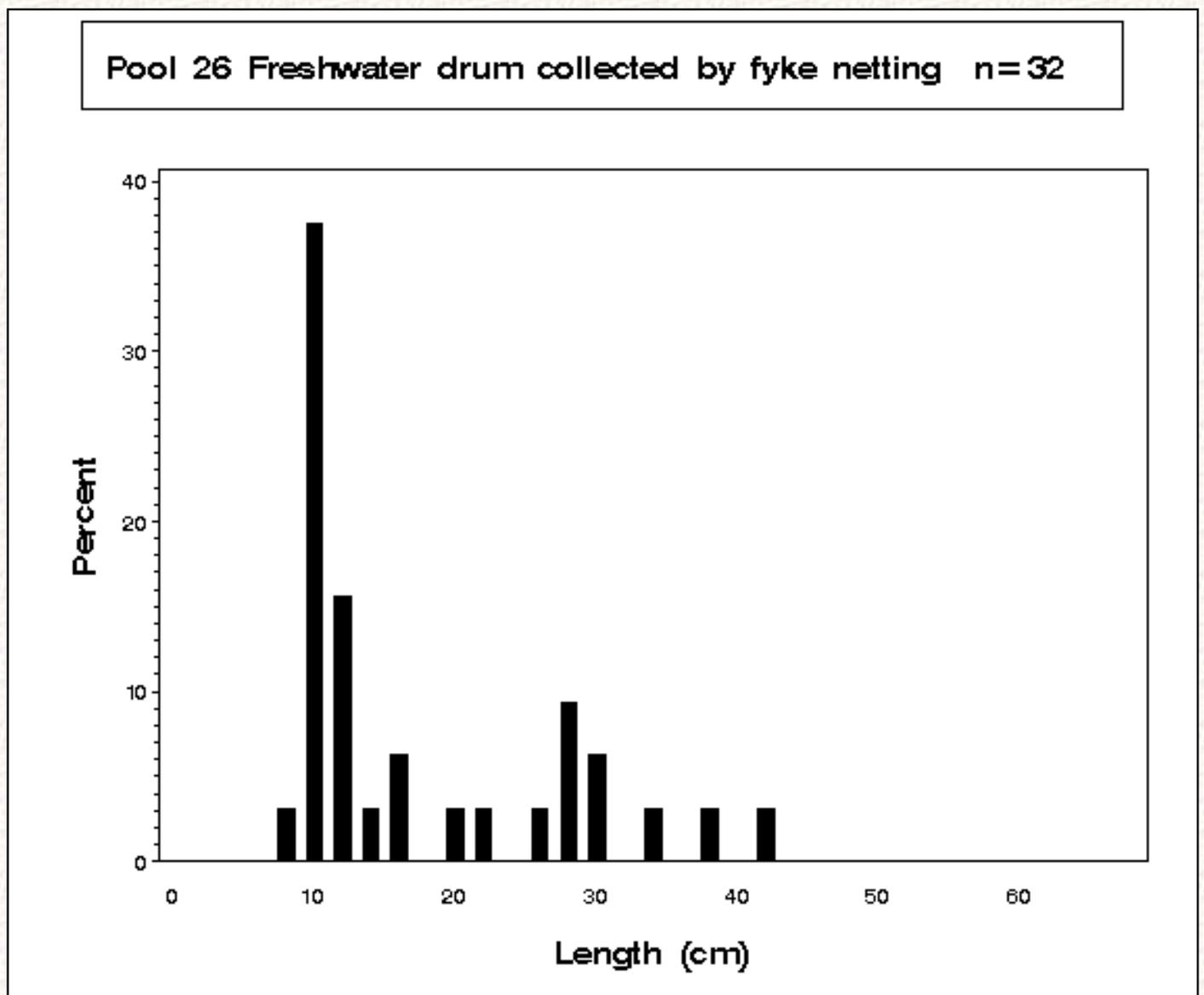
**Figure 18.4** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Pool 26 of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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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 2001. [Click here](#) to view this species' length distributions in all study reaches.



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## Open River, Upper Mississippi River 2001 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 2001. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- In 2001, the Open River reach conducted 330 fish collections using seven gear types ([Table 2.5](#)). Water levels fluctuated 30 ft during the sample season and affected seining sample allocation ([Table 2.5](#); [Figure 1.5](#)). Alternate random sites are used when original random sites are not suitable for sampling. Alternate site selection was highest during period 2 (~39%) and lowest during period 1 (~25%).
- Of the 330 fish collections, 271 were from randomly selected sites within the side channel border, main channel border, unstructured, and main channel border, wing dam strata. At tributary fixed sites, 32 collections were made and 27 were from main channel border, unstructured fixed sites.
- Side channel border strata received the most sampling effort and required highest alternate site selection because of water elevation during periods 2 (46%) and 3 (44%). Tributary strata received the least amount of sampling effort ([Table 2.5](#)).
- 13,031 fish were collected representing 65 species and 1 hybrid ([Table 3.5](#)). Day electrofishing caught the most fish and fish species.
- The LTRMP species total for the Open River reach before the 2001 season was 104. One new species was collected during 2001: Redspotted sunfish (2; [Table 3.5](#)). Species caught that are Missouri-listed species of special concern included paddlefish (2), mooneye (5), Mississippi silvery minnow (14), silver chub (22), pugnose minnow (17), blue sucker (3), and river darter (4; [Table 3.5](#)).

- Three species of asian carp were caught and included bighead carp (8), silver carp (7), and grass carp (2). These are exotic species that have been accidentally released into the Mississippi River system.
  - 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 14.5-22.5](#)) for each stratum are shown.
  - Length distributions for selected species of fish are shown in [Figures 2.5 to19.5](#).
- 

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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 2001. 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	4			2		19
Fyke net			4	1				2		7
Gill net			4	2	2			2		10
Large hoop net			8	5	4			2		19
Small hoop net			7	5	4			2		18
Mini fyke net			8	5	4			2		19
Seine			4	12						16
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>43</b>	<b>35</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>0</b>	<b>108</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			4	1				2		7
Gill net			4	2	2			1		9
Large hoop net			7	6	4			1		18
Small hoop net			7	6	4			1		18
Mini fyke net			8	5	4			2		19
Seine			12	8						20
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>50</b>	<b>33</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>0</b>	<b>110</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			1		9
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	11	0	112
Total	0	0	141	103	54	0	0	32	0	330

**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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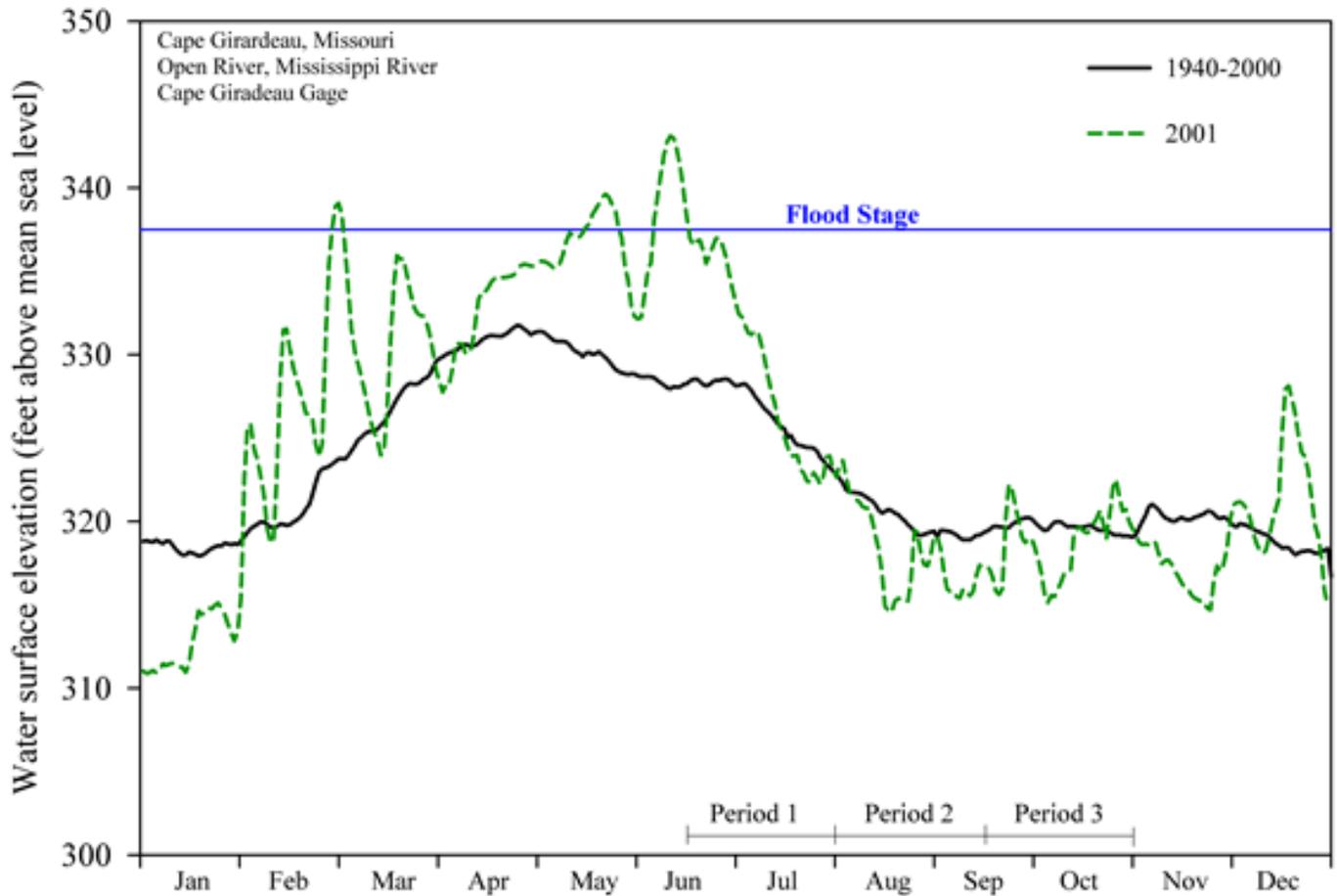


Figure 1.5. Daily water surface elevation from Cape Girardeau Gage for the Mississippi River, Open River, during 2001 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski 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 2001. 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	T	TOTAL
1	Chestnut lamprey	<i>Ichthyomyzon castaneus</i>	2	-	-	-	-	-	-	-	-	-	-	2
2	Shovelnose sturgeon	<i>Scaphirhynchus platyrhynchus</i>	-	-	-	-	-	-	-	-	3	51	-	54
3	Paddlefish	<i>Polyodon spathula</i>	-	-	-	-	-	-	-	-	-	2	-	2
4	Spotted gar	<i>Lepisosteus oculatus</i>	2	-	-	-	1	-	-	-	-	2	-	5
5	Longnose gar	<i>L. osseus</i>	12	-	-	-	-	-	-	-	-	3	-	15
6	Shortnose gar	<i>L. platostomus</i>	96	-	85	-	10	-	-	8	11	17	-	227
7	Bowfin	<i>Amia calva</i>	1	-	-	-	1	-	-	-	-	1	-	3
8	Goldeye	<i>Hiodon alosoides</i>	70	-	-	-	-	-	-	-	-	1	-	71
9	Mooneye	<i>H. tergisus</i>	5	-	-	-	-	-	-	-	-	-	-	5
10	American eel	<i>Anguilla rostrata</i>	2	-	-	-	-	-	-	-	-	-	-	2
11	Skipjack herring	<i>Alosa chrysochloris</i>	9	-	-	-	1	-	-	-	-	-	-	10
12	Gizzard shad	<i>Dorosoma cepedianum</i>	3297	-	170	-	80	-	255	1	2	34	-	3839
13	Threadfin shad	<i>D. petenense</i>	12	-	-	-	13	-	2	-	-	-	-	27
14	Grass carp	<i>Ctenopharyngodon idella</i>	-	-	-	-	-	-	-	-	1	1	-	2
15	Red shiner	<i>Cyprinella lutrensis</i>	680	-	-	-	40	-	266	-	-	-	-	986
16	Blacktail shiner	<i>C. venusta</i>	5	-	-	-	2	-	-	-	-	-	-	7
17	Common carp	<i>Cyprinus carpio</i>	249	-	12	-	10	-	-	76	159	30	-	536
18	Mississippi silvery minnow	<i>Hybognathus nuchalis</i>	6	-	-	-	-	-	8	-	-	-	-	14
19	Silver carp	<i>Hypophthalmichthys molitrix</i>	1	-	-	-	-	-	-	1	-	5	-	7
20	Bighead carp	<i>H. nobilis</i>	-	-	1	-	2	-	-	-	3	2	-	8

21	Speckled chub	<i>Macrhybopsis aestivalis</i>	1	-	-	-	33	-	3	-	-	-	-	37
22	Silver chub	<i>M. storeriana</i>	15	-	-	-	3	-	4	-	-	-	-	22
23	Emerald shiner	<i>Notropis atherinoides</i>	449	-	-	-	74	-	322	-	-	-	-	845
24	River shiner	<i>N. blennius</i>	11	-	-	-	1	-	33	-	-	-	-	45
25	Spottail shiner	<i>N. hudsonius</i>	1	-	-	-	-	-	-	-	-	-	-	1
26	Silverband shiner	<i>N. shumardi</i>	92	-	-	-	37	-	48	-	-	-	-	177
27	Channel shiner	<i>N. wickliffi</i>	392	-	-	-	382	-	163	-	-	-	-	937
28	Pugnose minnow	<i>Opsopoeodus emiliae</i>	6	-	-	-	1	-	10	-	-	-	-	17
29	Bluntnose minnow	<i>Pimephales notatus</i>	-	-	-	-	2	-	-	-	-	-	-	2
30	Bullhead minnow	<i>P. vigilax</i>	64	-	-	-	4	-	-	-	-	-	-	68
31	Unidentified minnow	Unidentified Cyprinidae	-	-	-	-	21	-	-	-	-	-	-	21
32	River carpsucker	<i>Carpionodes carpio</i>	76	-	7	-	31	-	11	-	20	15	-	160
33	Blue sucker	<i>Cycleptus elongatus</i>	1	-	-	-	-	-	-	-	-	2	-	3
34	Smallmouth buffalo	<i>Ictiobus bubalus</i>	15	-	-	-	-	-	-	1	115	5	-	136
35	Bigmouth buffalo	<i>I. cyprinellus</i>	13	-	-	-	-	-	-	-	2	4	-	19
36	Black buffalo	<i>I. niger</i>	8	-	-	-	-	-	-	3	32	3	-	46
37	Unidentified buffalo	<i>Ictiobus</i> sp.	-	-	-	-	4	-	11	-	-	-	-	15
38	Golden redhorse	<i>Moxostoma erythrurum</i>	-	-	-	-	1	-	-	-	-	-	-	1
39	Shorthead redhorse	<i>M. macrolepidotum</i>	1	-	-	-	-	-	2	-	-	1	-	4
40	Black bullhead	<i>Ameiurus melas</i>	-	-	-	-	1	-	-	-	-	-	-	1
41	Blue catfish	<i>Ictalurus furcatus</i>	8	-	1	-	3	-	-	41	6	36	-	95
42	Channel catfish	<i>I. punctatus</i>	76	-	10	-	81	-	19	531	99	17	-	833
43	Stonecat	<i>Noturus flavus</i>	-	-	-	-	2	-	-	-	-	-	-	2
44	Freckled madtom	<i>N. nocturnus</i>	-	-	-	-	4	-	-	-	-	-	-	4
45	Flathead catfish	<i>Pylodictis olivaris</i>	28	-	6	-	1	-	-	10	12	5	-	62

46	Blackstripe topminnow	<i>Fundulus notatus</i>	10	-	-	-	-	-	-	-	-	-	-	10
47	Blackspotted topminnow	<i>F. olivaceus</i>	3	-	-	1	-	-	-	-	-	-	-	4
48	Western mosquitofish	<i>Gambusia affinis</i>	14	-	-	12	-	10	-	-	-	-	-	36
49	Brook silverside	<i>Labidesthes sicculus</i>	130	-	-	13	-	20	-	-	-	-	-	163
50	White bass	<i>Morone chrysops</i>	79	-	16	19	-	14	2	8	9	-	-	147
51	Striped bass	<i>M. saxatilis</i>	6	-	-	-	-	-	-	-	-	-	-	6
52	Striped x white bass	<i>M. saxatilis x chrysops</i>	6	-	-	-	-	-	-	-	-	-	-	6
53	Green sunfish	<i>Lepomis cyanellus</i>	40	-	-	5	-	-	-	-	-	-	-	45
54	Warmouth	<i>L. gulosus</i>	13	-	-	19	-	-	-	-	-	-	-	32
55	Orangespotted sunfish	<i>L. humilis</i>	62	-	-	12	-	-	-	-	-	-	-	74
56	Bluegill	<i>L. macrochirus</i>	144	-	5	113	-	1	3	-	-	-	-	266
57	Longear sunfish	<i>L. megalotis</i>	9	-	-	-	-	-	-	-	-	-	-	9
58	Redear sunfish	<i>L. microlophus</i>	1	-	-	1	-	-	-	-	-	-	-	2
59	Spotted bass	<i>Micropterus punctulatus</i>	106	-	-	-	-	-	-	-	-	-	-	106
60	Largemouth bass	<i>M. salmoides</i>	9	-	-	-	-	-	-	-	-	-	-	9
61	White crappie	<i>Pomoxis annularis</i>	25	-	-	96	-	5	1	-	-	-	-	127
62	Black crappie	<i>P. nigromaculatus</i>	18	-	4	62	-	4	1	-	-	-	-	89
63	Logperch	<i>Percina caprodes</i>	1	-	-	-	-	-	-	-	-	-	-	1
64	Dusky darter	<i>P. sciera</i>	1	-	-	1	-	-	-	-	-	-	-	2
65	River darter	<i>P. shumardi</i>	2	-	-	2	-	-	-	-	-	-	-	4
66	Sauger	<i>Stizostedion canadense</i>	35	-	1	5	-	2	-	-	1	-	-	44
67	Freshwater drum	<i>Aplodinotus grunniens</i>	136	-	74	2184	-	25	6	8	38	-	-	2471
68	Unidentified	Unidentified	-	-	-	1	-	-	-	-	-	-	-	1
69	Redspotted sunfish	<i>Lepomis miniatus</i>	1	-	-	1	-	-	-	-	-	-	-	2
			<b>6557</b>	<b>0</b>	<b>392</b>	<b>0</b>	<b>3393</b>	<b>0</b>	<b>1238</b>	<b>685</b>	<b>481</b>	<b>285</b>	<b>0</b>	<b>13031</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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## 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
<a href="#">22.5</a>	Mean catch-per-unit-effort for fish collected by gill netting

\*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 4.5** 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 2001. 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>	0.07	0.08		
	(0.07)	(0.08)		
<b>Longnose gar</b>	0.29	0.31	0.25	0.17
	(0.12)	(0.13)	(0.25)	(0.12)
<b>Shortnose gar</b>	1.30	1.15	0.75	2.44
	(0.44)	(0.49)	(0.28)	(0.94)
<b>Bowfin</b>	0.00		0.08	
	(0.00)		(0.08)	
<b>Goldeye</b>	1.40	1.38	1.33	1.54
	(0.60)	(0.68)	(0.66)	(0.48)
<b>Mooneye</b>	0.02			0.17
	(0.01)			(0.10)
<b>American eel</b>	0.00		0.17	

	(0.00)		(0.11)	
<b>Skipjack herring</b>	0.09	0.08	0.33	0.17
	(0.07)	(0.08)	(0.22)	(0.10)
<b>Gizzard shad</b>	48.95	48.36	34.00	54.56
	(12.76)	(14.43)	(9.89)	(18.10)
<b>Threadfin shad</b>	0.25	0.23		0.38
	(0.15)	(0.17)		(0.29)
<b>Red shiner</b>	5.32	2.54	1.50	26.08
	(1.74)	(0.87)	(0.61)	(13.34)
<b>Blacktail shiner</b>	0.14	0.15	0.25	
	(0.13)	(0.15)	(0.25)	
<b>Common carp</b>	4.17	4.37	5.33	2.64
	(2.38)	(2.73)	(0.99)	(0.75)
<b>Mississippi silvery minnow</b>	0.09	0.08		0.23
	(0.07)	(0.08)		(0.09)
<b>Silver carp</b>	0.00		0.08	
	(0.00)		(0.08)	
<b>Speckled chub</b>	0.00			0.04
	(0.00)			(0.04)
<b>Silver chub</b>	0.26	0.23		0.46
	(0.15)	(0.17)		(0.46)
<b>Emerald shiner</b>	4.92	3.58	2.42	15.00
	(1.38)	(1.26)	(0.95)	(7.01)

<b>River shiner</b>	0.06			0.48
	(0.04)			(0.34)
<b>Silverband shiner</b>	0.93	0.62	0.50	3.25
	(0.31)	(0.27)	(0.23)	(1.68)
<b>Channel shiner</b>	3.01	1.38	0.67	15.13
	(1.25)	(0.55)	(0.36)	(9.85)
<b>Pugnose minnow</b>	0.01			0.06
	(0.01)			(0.06)
<b>Bullhead minnow</b>	0.31			2.63
	(0.21)			(1.79)
<b>River carpsucker</b>	0.80	0.67	1.83	1.67
	(0.23)	(0.26)	(1.30)	(0.46)
<b>Blue sucker</b>	0.00		0.08	
	(0.00)		(0.08)	
<b>Smallmouth buffalo</b>	0.18	0.15	0.25	0.33
	(0.14)	(0.15)	(0.13)	(0.21)
<b>Bigmouth buffalo</b>	0.06		0.08	0.46
	(0.02)		(0.08)	(0.17)
<b>Black buffalo</b>	0.22	0.23		0.17
	(0.11)	(0.12)		(0.08)
<b>Blue catfish</b>	0.15	0.15	0.42	0.06
	(0.09)	(0.10)	(0.26)	(0.06)
<b>Channel catfish</b>	1.20	1.13	1.58	1.67

	(0.41)	(0.47)	(0.77)	(0.47)
<b>Flathead catfish</b>	0.25	0.23	1.25	0.33
	(0.15)	(0.17)	(0.58)	(0.18)
<b>Blackstripe topminnow</b>	0.03		0.08	0.25
	(0.02)		(0.08)	(0.21)
<b>Blackspotted topminnow</b>	0.01			0.08
	(0.01)			(0.08)
<b>Western mosquitofish</b>	0.05		0.25	0.38
	(0.04)		(0.13)	(0.33)
<b>Brook silverside</b>	3.88	4.38	0.83	0.40
	(3.53)	(4.05)	(0.44)	(0.12)
<b>White bass</b>	1.10	1.08	1.67	1.21
	(0.60)	(0.68)	(0.38)	(0.28)
<b>Striped bass</b>	0.08	0.08	0.25	0.08
	(0.07)	(0.08)	(0.18)	(0.06)
<b>Striped x white bass</b>	0.03			0.25
	(0.02)			(0.17)
<b>Green sunfish</b>	0.15		0.83	1.21
	(0.06)		(0.61)	(0.52)
<b>Warmouth</b>	0.01		0.25	0.08
	(0.01)		(0.13)	(0.06)
<b>Orangespotted sunfish</b>	0.30	0.23	0.42	0.83
	(0.11)	(0.12)	(0.19)	(0.30)

<b>Bluegill</b>	1.64	1.38	1.33	3.54
	(0.96)	(1.08)	(0.38)	(1.52)
<b>Longear sunfish</b>	0.03			0.29
	(0.03)			(0.21)
<b>Spotted bass</b>	0.09			0.79
	(0.04)			(0.35)
<b>Largemouth bass</b>	0.03		0.08	0.21
	(0.01)		(0.08)	(0.10)
<b>White crappie</b>	0.07	0.08	0.25	0.04
	(0.07)	(0.08)	(0.18)	(0.04)
<b>Black crappie</b>	0.14	0.08		0.58
	(0.07)	(0.08)		(0.28)
<b>Logperch</b>	0.00		0.08	
	(0.00)		(0.08)	
<b>Dusky darter</b>	0.00		0.08	
	(0.00)		(0.08)	
<b>River darter</b>	0.00		0.17	
	(0.00)		(0.11)	
<b>Sauger</b>	0.46	0.38	0.17	1.00
	(0.17)	(0.18)	(0.11)	(0.47)
<b>Freshwater drum</b>	1.57	1.38	2.08	2.88
	(0.70)	(0.79)	(0.83)	(0.94)

### Sampling strata:

**MCBU - Main channel border, unstructured**

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

**SCB - Side channel border**

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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 2001. 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>	5.11	5.11
	(2.21)	(2.21)
<b>Gizzard shad</b>	8.48	8.48
	(7.82)	(7.82)
<b>Common carp</b>	0.41	0.41
	(0.15)	(0.15)
<b>Bighead carp</b>	0.08	0.08
	(0.08)	(0.08)
<b>River carpsucker</b>	0.17	0.17
	(0.12)	(0.12)
<b>Blue catfish</b>	0.08	0.08
	(0.08)	(0.08)
<b>Channel catfish</b>	0.58	0.58

	(0.34)	(0.34)
<b>Flathead catfish</b>	0.43	0.43
	(0.24)	(0.24)
<b>White bass</b>	0.17	0.17
	(0.11)	(0.11)
<b>Bluegill</b>		
<b>Black crappie</b>	0.26	0.26
	(0.18)	(0.18)
<b>Freshwater drum</b>	2.60	2.60
	(1.15)	(1.15)

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

*Last updated on August 26, 2004*

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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 2001. 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>	0.14	0.16	0.27	0.04
	(0.09)	(0.11)	(0.19)	(0.04)
<b>Bowfin</b>	0.00		0.08	
	(0.00)		(0.08)	
<b>Skipjack herring</b>	0.01			0.04
	(0.01)			(0.04)
<b>Gizzard shad</b>	2.11	2.23	1.32	1.31
	(1.20)	(1.37)	(0.78)	(0.70)
<b>Red shiner</b>	0.41	0.32	0.94	1.01
	(0.13)	(0.14)	(0.41)	(0.41)
<b>Blacktail shiner</b>	0.01			0.09
	(0.01)			(0.09)
<b>Common carp</b>	0.16	0.16		0.14

	(0.14)	(0.16)		(0.10)
<b>Bighead carp</b>	0.01			0.05
	(0.01)			(0.05)
<b>Speckled chub</b>	0.86	0.84		1.03
	(0.60)	(0.68)		(0.67)
<b>Silver chub</b>	0.07	0.07		0.04
	(0.07)	(0.07)		(0.04)
<b>Emerald shiner</b>	2.26	2.49	0.57	0.70
	(0.89)	(1.02)	(0.30)	(0.25)
<b>Silverband shiner</b>	1.24	1.36	0.70	0.41
	(0.58)	(0.67)	(0.45)	(0.24)
<b>Channel shiner</b>	11.73	12.87	5.63	3.87
	(5.72)	(6.56)	(2.69)	(1.96)
<b>Bluntnose minnow</b>	0.07	0.08	0.08	
	(0.07)	(0.08)	(0.08)	
<b>Bullhead minnow</b>	0.01			0.04
	(0.01)			(0.04)
<b>Unidentified minnow</b>	1.05	1.19	0.44	
	(1.04)	(1.19)	(0.44)	
<b>River carpsucker</b>	0.30	0.17	0.08	1.29
	(0.16)	(0.17)	(0.08)	(0.62)
<b>Unidentified buffalo</b>	0.07	0.07		
	(0.07)	(0.07)		

<b>Golden redhorse</b>	0.00		0.09	
	(0.00)		(0.09)	
<b>Black bullhead</b>	0.01			0.04
	(0.01)			(0.04)
<b>Blue catfish</b>	0.08	0.09	0.18	
	(0.07)	(0.09)	(0.12)	
<b>Channel catfish</b>	1.29	1.34	3.07	0.76
	(0.41)	(0.47)	(0.98)	(0.37)
<b>Stonecat</b>	0.15	0.17		
	(0.15)	(0.17)		
<b>Freckled madtom</b>	0.15	0.17	0.18	
	(0.15)	(0.17)	(0.12)	
<b>Western mosquitofish</b>	0.27	0.31		
	(0.20)	(0.23)		
<b>Brook silverside</b>	0.12	0.07	0.09	0.49
	(0.09)	(0.07)	(0.09)	(0.49)
<b>White bass</b>	0.45	0.48	0.79	0.15
	(0.25)	(0.29)	(0.35)	(0.11)
<b>Green sunfish</b>	0.16	0.17	0.09	0.09
	(0.10)	(0.11)	(0.09)	(0.06)
<b>Warmouth</b>	0.08	0.09	0.17	0.05
	(0.07)	(0.09)	(0.11)	(0.05)
<b>Orangespotted sunfish</b>	0.03		0.09	0.27

	(0.01)		(0.09)	(0.12)
<b>Bluegill</b>	1.53	1.61	1.05	0.97
	(0.41)	(0.46)	(0.34)	(0.48)
<b>White crappie</b>	0.75	0.67	2.48	1.20
	(0.33)	(0.38)	(1.26)	(0.49)
<b>Black crappie</b>	0.38	0.33	1.99	0.61
	(0.20)	(0.23)	(1.80)	(0.34)
<b>Dusky darter</b>	0.01			0.05
	(0.01)			(0.05)
<b>River darter</b>	0.08	0.08		0.05
	(0.07)	(0.08)		(0.05)
<b>Sauger</b>	0.15	0.17	0.09	0.05
	(0.15)	(0.17)	(0.09)	(0.05)
<b>Freshwater drum</b>	30.36	23.51	7.22	82.62
	(13.96)	(13.17)	(2.44)	(67.52)
<b>Unidentified</b>	0.01			0.04
	(0.01)			(0.04)

**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 2001. 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>	0.08	0.08		0.05
	(0.07)	(0.08)		(0.03)
<b>Gizzard shad</b>	0.00		0.04	
	(0.00)		(0.04)	
<b>Common carp</b>	0.55	0.59	1.17	0.24
	(0.28)	(0.32)	(0.55)	(0.11)
<b>Smallmouth buffalo</b>	0.00			0.02
	(0.00)			(0.02)
<b>Black buffalo</b>	0.04	0.04		0.02
	(0.04)	(0.04)		(0.02)
<b>Blue catfish</b>	0.23	0.16	0.23	0.68
	(0.12)	(0.11)	(0.10)	(0.60)
<b>Channel catfish</b>	2.23	1.65	0.39	6.66

	(1.01)	(1.08)	(0.31)	(3.11)
<b>Flathead catfish</b>	0.02		0.10	0.16
	(0.01)		(0.06)	(0.09)
<b>White bass</b>	0.00			0.02
	(0.00)			(0.02)
<b>Bluegill</b>	0.01			0.07
	(0.01)			(0.07)
<b>Freshwater drum</b>	0.01			0.12
	(0.01)			(0.06)

**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/2001/open/tb3\\_or0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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>	0.01			0.08
	(0.01)			(0.08)
<b>Shortnose gar</b>	0.05	0.04		0.12
	(0.04)	(0.04)		(0.08)
<b>Gizzard shad</b>	0.01			0.05
	(0.01)			(0.05)
<b>Grass carp</b>	0.00		0.04	
	(0.00)		(0.04)	
<b>Common carp</b>	0.70	0.64	1.22	1.11
	(0.37)	(0.42)	(0.63)	(0.35)
<b>Bighead carp</b>	0.04	0.05	0.04	
	(0.04)	(0.05)	(0.04)	
<b>River carpsucker</b>	0.03			0.25

	(0.01)			(0.11)
<b>Smallmouth buffalo</b>	0.80	0.74	0.90	1.26
	(0.39)	(0.44)	(0.77)	(0.33)
<b>Bigmouth buffalo</b>	0.01			0.05
	(0.00)			(0.03)
<b>Black buffalo</b>	0.15	0.09		0.59
	(0.06)	(0.06)		(0.28)
<b>Blue catfish</b>	0.09	0.09	0.04	0.07
	(0.08)	(0.09)	(0.04)	(0.04)
<b>Channel catfish</b>	0.27	0.05	0.04	1.94
	(0.14)	(0.05)	(0.04)	(1.11)
<b>Flathead catfish</b>	0.13	0.14	0.05	0.12
	(0.06)	(0.07)	(0.05)	(0.05)
<b>White bass</b>	0.13	0.14		0.12
	(0.09)	(0.10)		(0.06)
<b>Freshwater drum</b>	0.05	0.04	0.12	0.09
	(0.04)	(0.04)	(0.09)	(0.04)

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


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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 2001. 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
<b>Gizzard shad</b>	3.56	3.00	7.67
	(1.23)	(1.26)	(4.42)
<b>Threadfin shad</b>	0.01		0.08
	(0.01)		(0.08)
<b>Red shiner</b>	1.71	0.50	10.58
	(0.73)	(0.22)	(5.93)
<b>Mississippi silvery minnow</b>	0.27	0.30	0.08
	(0.26)	(0.30)	(0.08)
<b>Speckled chub</b>	0.01		0.13
	(0.01)		(0.07)
<b>Silver chub</b>	0.00		0.04
	(0.00)		(0.04)
<b>Emerald shiner</b>	2.85	1.60	12.04

	(0.79)	(0.46)	(5.70)
<b>River shiner</b>	0.16		1.33
	(0.07)		(0.61)
<b>Silverband shiner</b>	0.33	0.15	1.67
	(0.11)	(0.08)	(0.66)
<b>Channel shiner</b>	1.88	1.45	5.04
	(1.00)	(1.09)	(2.50)
<b>Pugnose minnow</b>	0.05		0.42
	(0.03)		(0.25)
<b>River carpsucker</b>	0.09	0.05	0.38
	(0.05)	(0.05)	(0.20)
<b>Unidentified buffalo</b>	0.03		0.25
	(0.03)		(0.21)
<b>Shorthead redhorse</b>	0.09	0.10	
	(0.09)	(0.10)	
<b>Channel catfish</b>	0.19	0.20	0.13
	(0.10)	(0.12)	(0.09)
<b>Western mosquitofish</b>	0.04	0.05	
	(0.04)	(0.05)	
<b>Brook silverside</b>	0.14	0.05	0.79
	(0.08)	(0.05)	(0.56)
<b>White bass</b>	0.53	0.60	
	(0.27)	(0.30)	

<b>Bluegill</b>	0.04	0.05	
	(0.04)	(0.05)	
<b>White crappie</b>	0.22	0.25	
	(0.14)	(0.16)	
<b>Black crappie</b>	0.18	0.20	
	(0.14)	(0.16)	
<b>Sauger</b>	0.00		0.04
	(0.00)		(0.04)
<b>Freshwater drum</b>	0.84	0.95	
	(0.35)	(0.40)	

**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/2001/open/tb3\\_or0008.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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>	1.44	1.22	2.04	3.01
	(0.52)	(0.56)	(1.30)	(1.51)
<b>Paddlefish</b>	0.17	0.18		0.09
	(0.16)	(0.18)		(0.09)
<b>Spotted gar</b>	0.01			0.10
	(0.01)			(0.10)
<b>Longnose gar</b>	0.16	0.18		
	(0.16)	(0.18)		
<b>Shortnose gar</b>	0.27	0.17	0.17	1.05
	(0.16)	(0.17)	(0.17)	(0.55)
<b>Goldeye</b>	0.01			0.10
	(0.01)			(0.10)
<b>Gizzard shad</b>	0.45	0.35		1.21

	(0.20)	(0.22)		(0.54)
<b>Grass carp</b>	0.01			0.09
	(0.01)			(0.09)
<b>Common carp</b>	0.73	0.71	0.18	0.90
	(0.47)	(0.54)	(0.18)	(0.50)
<b>Silver carp</b>	0.03			0.28
	(0.02)			(0.21)
<b>Bighead carp</b>	0.32	0.36		
	(0.32)	(0.36)		
<b>River carpsucker</b>	0.26	0.18	0.19	0.86
	(0.16)	(0.18)	(0.19)	(0.37)
<b>Blue sucker</b>	0.02			0.18
	(0.01)			(0.12)
<b>Smallmouth buffalo</b>	0.16	0.17	0.17	0.09
	(0.15)	(0.17)	(0.17)	(0.09)
<b>Bigmouth buffalo</b>	0.02			0.19
	(0.01)			(0.13)
<b>Black buffalo</b>	0.18	0.18		0.17
	(0.16)	(0.18)		(0.11)
<b>Shorthead redhorse</b>	0.01			0.08
	(0.01)			(0.08)
<b>Blue catfish</b>	0.60	0.35	1.41	2.33
	(0.30)	(0.22)	(0.76)	(1.95)

<b>Channel catfish</b>	0.44	0.35	0.19	1.12
	(0.20)	(0.22)	(0.19)	(0.40)
<b>Flathead catfish</b>	0.18	0.18		0.19
	(0.16)	(0.18)		(0.13)
<b>White bass</b>	0.38	0.36		0.53
	(0.32)	(0.36)		(0.31)
<b>Sauger</b>	0.01			0.11
	(0.01)			(0.11)
<b>Freshwater drum</b>	1.84	1.90	0.85	1.50
	(0.49)	(0.56)	(0.65)	(0.53)

**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/2001/open/tb3\\_or0009.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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>Chestnut lamprey</b>	0.00	0.17
	(0.00)	(0.17)
<b>Spotted gar</b>	0.00	0.33
	(0.00)	(0.33)
<b>Longnose gar</b>	0.00	0.17
	(0.00)	(0.17)
<b>Shortnose gar</b>	2.00	1.67
	(2.00)	(0.99)
<b>Mooneye</b>	0.00	0.17
	(0.00)	(0.17)
<b>Gizzard shad</b>	37.50	143.96
	(8.50)	(77.22)
<b>Red shiner</b>	0.00	1.00
	(0.00)	(0.68)

<b>Common carp</b>	1.00	10.86
	(1.00)	(7.09)
<b>Silver chub</b>	0.00	0.19
	(0.00)	(0.19)
<b>Emerald shiner</b>	1.50	1.67
	(0.50)	(0.92)
<b>Spottail shiner</b>	0.00	0.17
	(0.00)	(0.17)
<b>Channel shiner</b>	0.00	0.50
	(0.00)	(0.34)
<b>Pugnose minnow</b>	0.00	0.83
	(0.00)	(0.83)
<b>Bullhead minnow</b>	0.00	0.17
	(0.00)	(0.17)
<b>River carpsucker</b>	0.50	0.86
	(0.50)	(0.48)
<b>Smallmouth buffalo</b>	0.00	0.33
	(0.00)	(0.21)
<b>Bigmouth buffalo</b>	0.00	0.17
	(0.00)	(0.17)
<b>Black buffalo</b>	0.00	0.17
	(0.00)	(0.17)
<b>Shorthead redhorse</b>	0.00	0.17

	(0.00)	(0.17)
<b>Channel catfish</b>	0.00	0.33
	(0.00)	(0.33)
<b>Flathead catfish</b>	0.00	0.33
	(0.00)	(0.21)
<b>Blackstripe topminnow</b>	0.00	0.50
	(0.00)	(0.34)
<b>Blackspotted topminnow</b>	0.00	0.17
	(0.00)	(0.17)
<b>Western mosquitofish</b>	0.00	0.36
	(0.00)	(0.23)
<b>Brook silverside</b>	0.00	9.00
	(0.00)	(5.11)
<b>White bass</b>	0.00	2.83
	(0.00)	(1.17)
<b>Green sunfish</b>	0.00	0.17
	(0.00)	(0.17)
<b>Warmouth</b>	0.00	1.33
	(0.00)	(0.99)
<b>Orangespotted sunfish</b>	0.00	5.67
	(0.00)	(4.01)
<b>Bluegill</b>	0.00	4.17
	(0.00)	(2.23)

<b>Longear sunfish</b>	0.00	0.33
	(0.00)	(0.21)
<b>Redear sunfish</b>	0.00	0.17
	(0.00)	(0.17)
<b>Spotted bass</b>	0.00	14.50
	(0.00)	(12.18)
<b>Largemouth bass</b>	0.00	0.50
	(0.00)	(0.50)
<b>White crappie</b>	0.00	3.33
	(0.00)	(2.12)
<b>Black crappie</b>	0.00	0.50
	(0.00)	(0.34)
<b>Sauger</b>	0.00	0.67
	(0.00)	(0.49)
<b>Freshwater drum</b>	0.50	3.91
	(0.50)	(1.86)

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

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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 2001. 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>	1.09	2.60
	(1.09)	(1.74)
<b>Gizzard shad</b>	0.50	2.99
	(0.50)	(2.45)
<b>Common carp</b>	0.00	1.01
	(0.00)	(0.37)
<b>River carpsucker</b>	0.00	0.32
	(0.00)	(0.32)
<b>Channel catfish</b>	0.00	0.17
	(0.00)	(0.17)
<b>Flathead catfish</b>	0.00	0.18
	(0.00)	(0.18)
<b>White bass</b>	0.54	0.67
	(0.54)	(0.67)

<b>Bluegill</b>	1.09	0.16
	(1.09)	(0.16)
<b>Black crappie</b>	0.54	0.00
	(0.54)	(0.00)
<b>Sauger</b>	0.50	0.00
	(0.50)	(0.00)
<b>Freshwater drum</b>	4.06	0.49
	(1.88)	(0.33)

**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/2001/open/tb4\\_or0011.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/open/tb4_or0011.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶

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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 2001. 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	0.17
	(0.00)	(0.17)
<b>Shortnose gar</b>	1.11	0.36
	(1.11)	(0.23)
<b>Gizzard shad</b>	3.33	0.73
	(3.33)	(0.73)
<b>Threadfin shad</b>	0.00	2.25
	(0.00)	(2.06)
<b>Red shiner</b>	1.11	0.17
	(1.11)	(0.17)
<b>Common carp</b>	0.00	0.89
	(0.00)	(0.52)
<b>Bighead carp</b>	0.00	0.18
	(0.00)	(0.18)

<b>Silver chub</b>	0.00	0.18
	(0.00)	(0.18)
<b>Emerald shiner</b>	0.56	3.15
	(0.56)	(2.36)
<b>River shiner</b>	0.00	0.17
	(0.00)	(0.17)
<b>Silverband shiner</b>	0.00	0.52
	(0.00)	(0.52)
<b>Channel shiner</b>	3.19	10.68
	(3.19)	(8.27)
<b>Pugnose minnow</b>	0.00	0.17
	(0.00)	(0.17)
<b>Bullhead minnow</b>	0.00	0.54
	(0.00)	(0.54)
<b>Unidentified buffalo</b>	0.00	0.52
	(0.00)	(0.52)
<b>Channel catfish</b>	4.79	0.34
	(4.79)	(0.21)
<b>Flathead catfish</b>	0.53	0.00
	(0.53)	(0.00)
<b>Blackspotted topminnow</b>	0.00	0.17
	(0.00)	(0.17)
<b>Western mosquitofish</b>	0.00	1.32

	(0.00)	(1.32)
<b>White bass</b>	0.53	0.00
	(0.53)	(0.00)
<b>Warmouth</b>	0.00	2.68
	(0.00)	(2.27)
<b>Orangespotted sunfish</b>	0.00	0.87
	(0.00)	(0.41)
<b>Bluegill</b>	0.56	10.37
	(0.56)	(7.50)
<b>Redear sunfish</b>	0.00	0.18
	(0.00)	(0.18)
<b>White crappie</b>	0.56	5.85
	(0.56)	(3.49)
<b>Black crappie</b>	0.00	4.11
	(0.00)	(2.92)
<b>Sauger</b>	0.56	0.00
	(0.56)	(0.00)
<b>Freshwater drum</b>	0.53	1.90
	(0.53)	(0.91)

**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 2001. 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	0.40
	(0.00)	(0.40)
<b>Common carp</b>	0.68	1.56
	(0.34)	(0.77)
<b>Silver carp</b>	0.00	0.10
	(0.00)	(0.10)
<b>Black buffalo</b>	0.00	0.10
	(0.00)	(0.10)
<b>Channel catfish</b>	12.69	1.76
	(7.22)	(0.76)
<b>Flathead catfish</b>	0.17	0.00
	(0.17)	(0.00)
<b>White bass</b>	0.17	0.00
	(0.17)	(0.00)

<b>White crappie</b>	0.00	0.10
	(0.00)	(0.10)
<b>Black crappie</b>	0.00	0.10
	(0.00)	(0.10)
<b>Freshwater drum</b>	0.00	0.10
	(0.00)	(0.10)

**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 2001. 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	0.51
	(0.00)	(0.23)
<b>Common carp</b>	0.00	7.31
	(0.00)	(3.27)
<b>Bighead carp</b>	0.00	0.10
	(0.00)	(0.10)
<b>River carpsucker</b>	0.00	0.96
	(0.00)	(0.96)
<b>Smallmouth buffalo</b>	3.56	0.42
	(1.94)	(0.20)
<b>Black buffalo</b>	0.34	0.31
	(0.17)	(0.21)
<b>Channel catfish</b>	1.00	0.94
	(1.00)	(0.39)

<b>Flathead catfish</b>	0.50	0.00
	(0.29)	(0.00)

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

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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 2001. 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
Gizzard shad	0.92
	(0.67)
Red shiner	0.17
	(0.17)
Silver chub	0.25
	(0.13)
Emerald shiner	0.08
	(0.08)
River shiner	0.08
	(0.08)
Silverband shiner	0.42
	(0.29)
Channel shiner	1.08
	(0.61)

<b>River carpsucker</b>	0.08
	(0.08)
<b>Unidentified buffalo</b>	0.42
	(0.42)
<b>Channel catfish</b>	1.00
	(0.51)
<b>Western mosquitofish</b>	0.75
	(0.46)
<b>White bass</b>	0.17
	(0.11)
<b>Sauger</b>	0.08
	(0.08)
<b>Freshwater drum</b>	0.50
	(0.23)

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

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**Table 22.5** Mean catch-per-unit-effort and (standard error) for fish collected by gill netting in Open River of the Upper Mississippi River using fixed-site sampling during 2001. 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	TRI
Spotted gar	0.28
	(0.28)
Longnose gar	0.53
	(0.31)
Shortnose gar	1.12
	(1.12)
Bowfin	0.28
	(0.28)
Gizzard shad	5.30
	(4.61)
Common carp	4.17
	(1.93)
Silver carp	0.56
	(0.56)

<b>River carpsucker</b>	0.84
	(0.84)
<b>Smallmouth buffalo</b>	0.56
	(0.32)
<b>Bigmouth buffalo</b>	0.56
	(0.56)
<b>Blue catfish</b>	0.28
	(0.28)
<b>Channel catfish</b>	0.56
	(0.56)
<b>Flathead catfish</b>	0.56
	(0.56)
<b>White bass</b>	0.28
	(0.28)
<b>Freshwater drum</b>	1.37
	(0.54)

**Sampling stratum:  
TRI - Tributary mouth**

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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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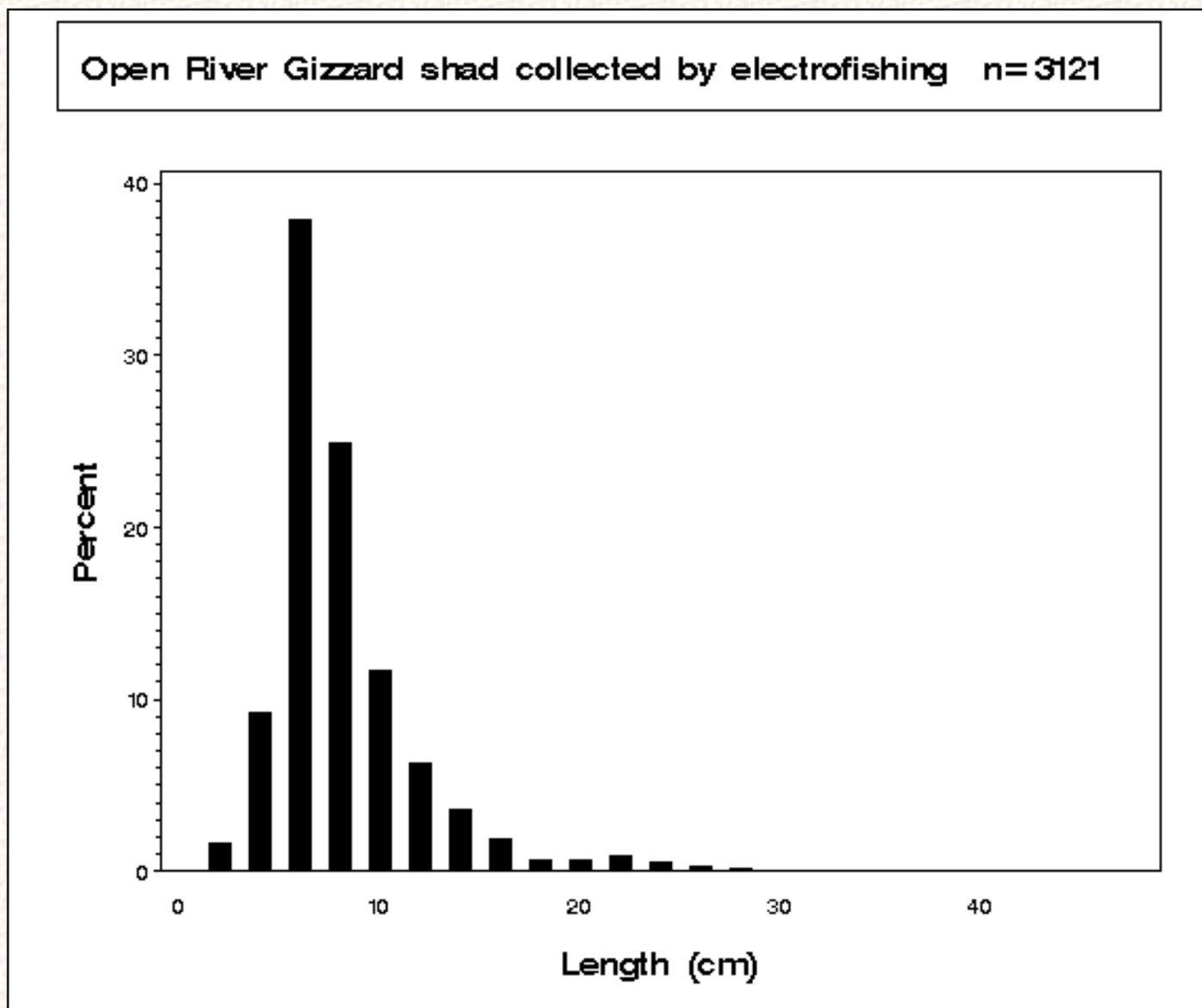
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**Figure 2.5** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.

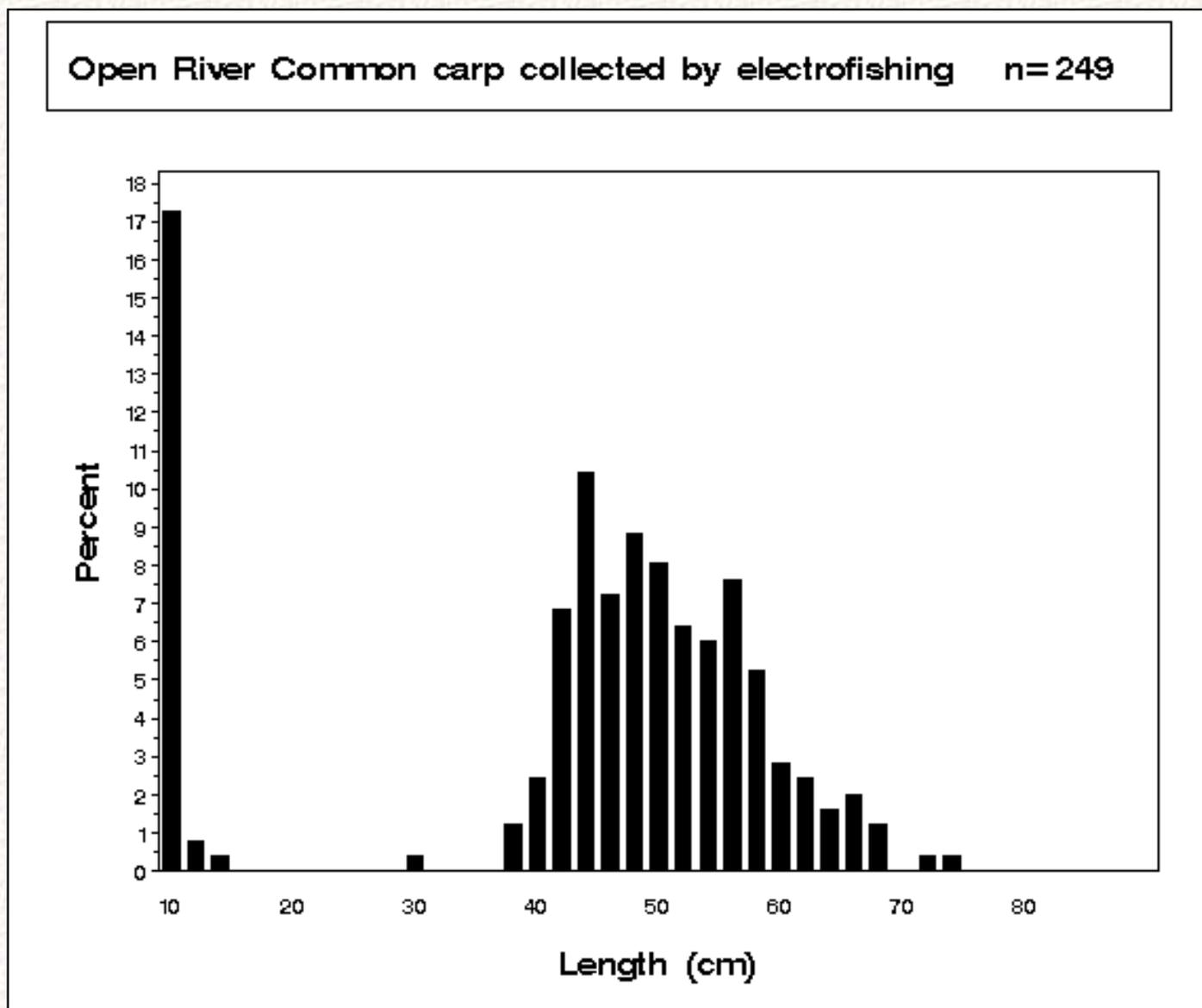




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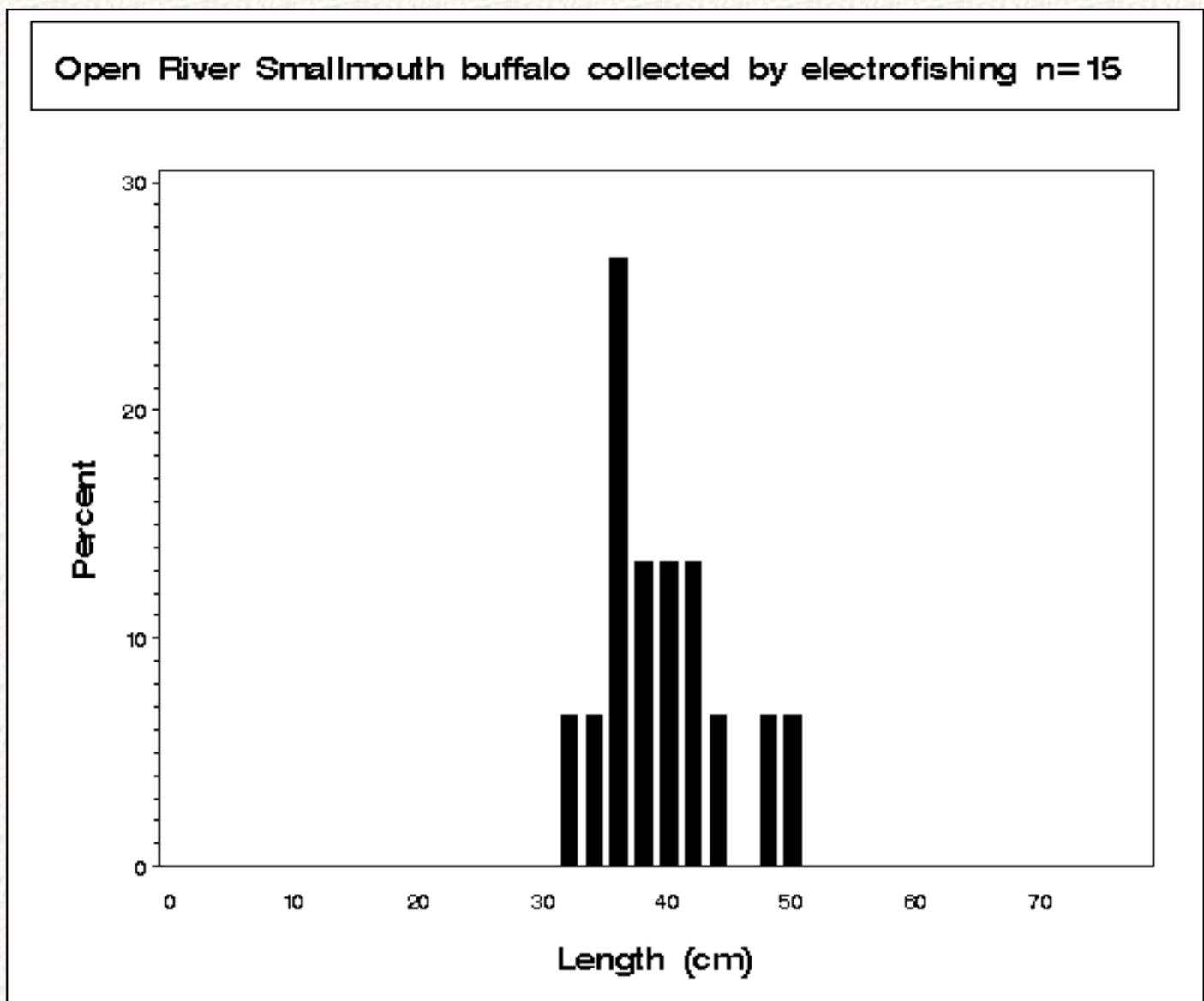
**Figure 3.5** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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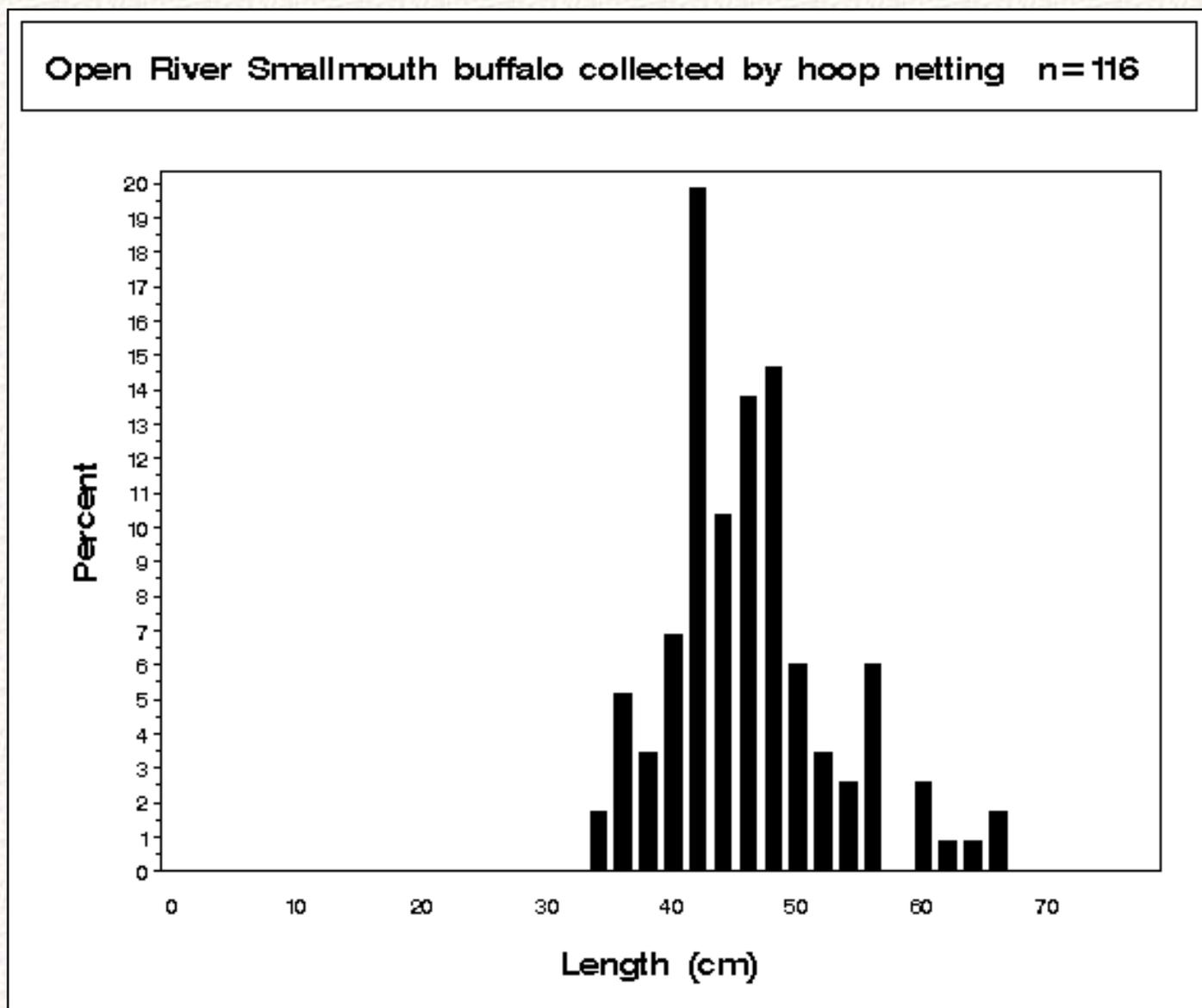
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**Figure 4.5** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.




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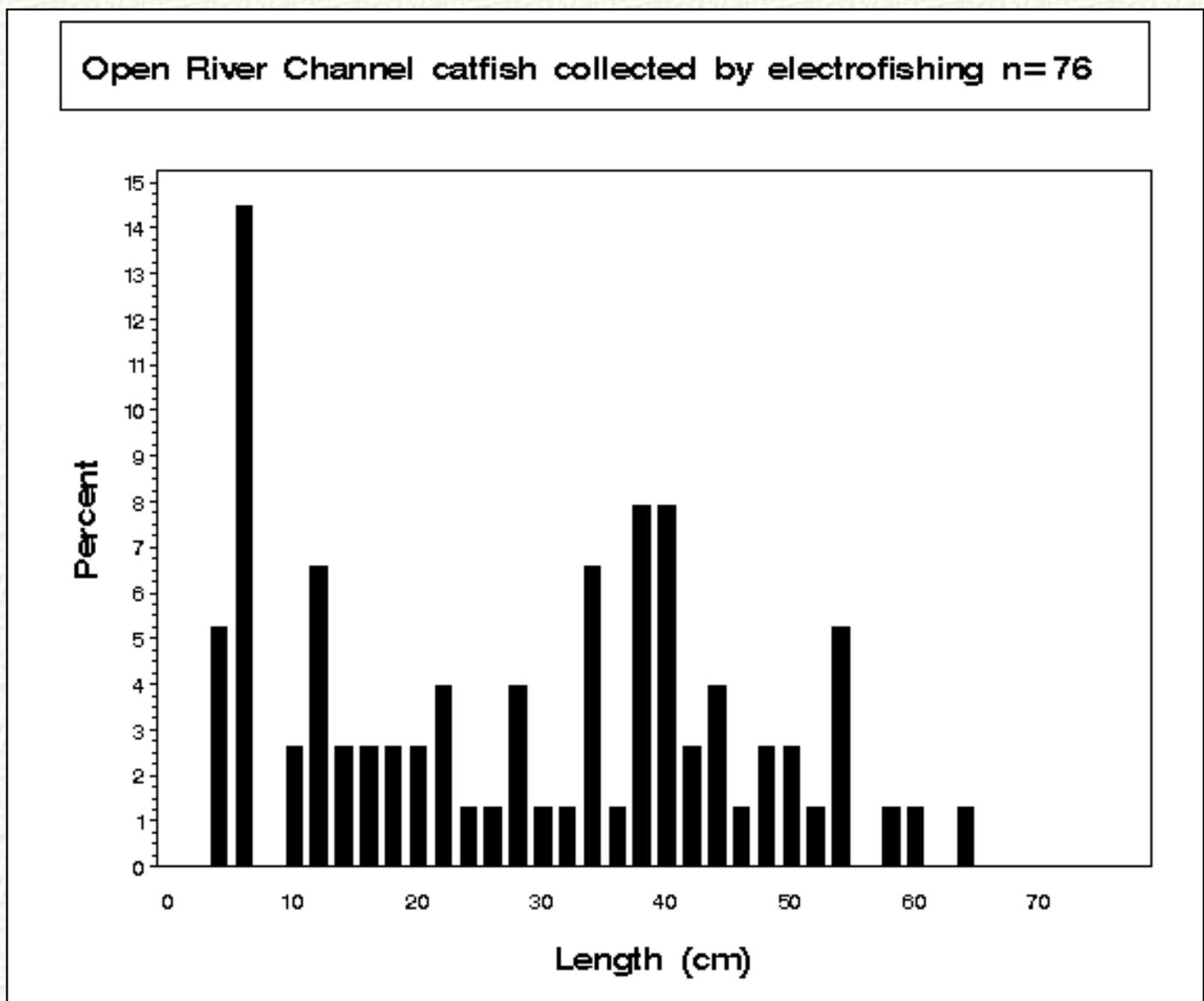
**Figure 5.5** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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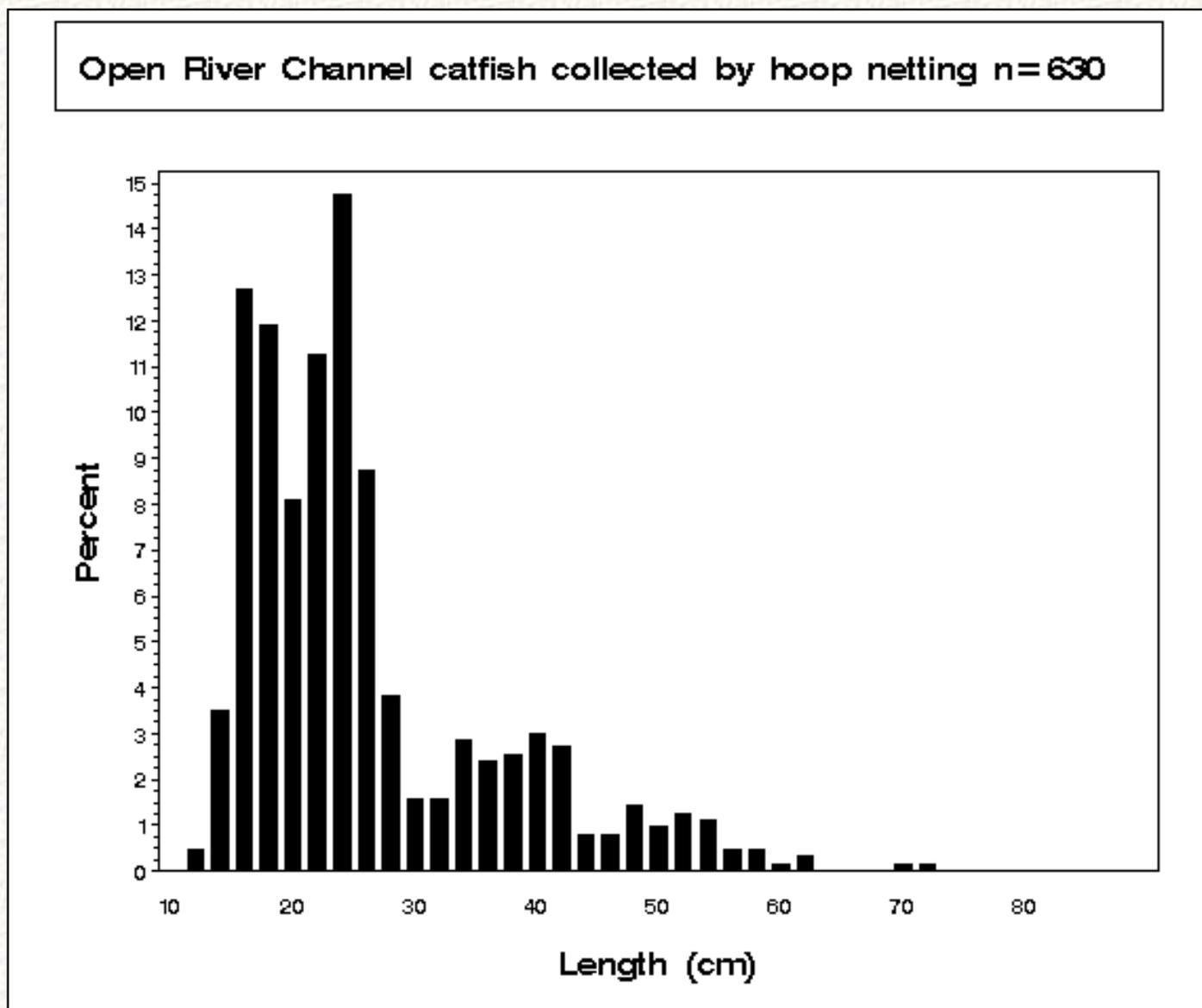
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**Figure 6.5** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



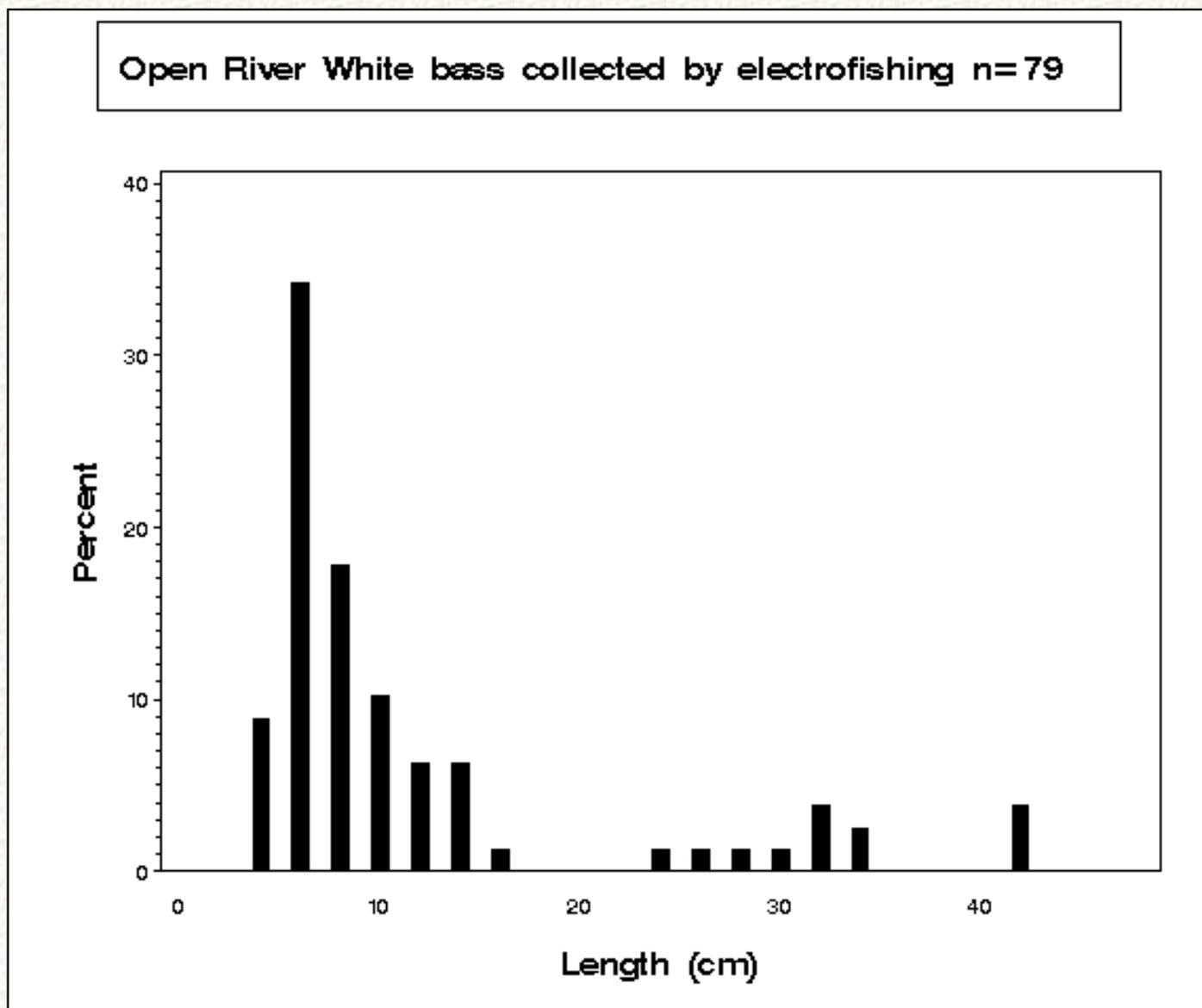
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**Figure 7.5** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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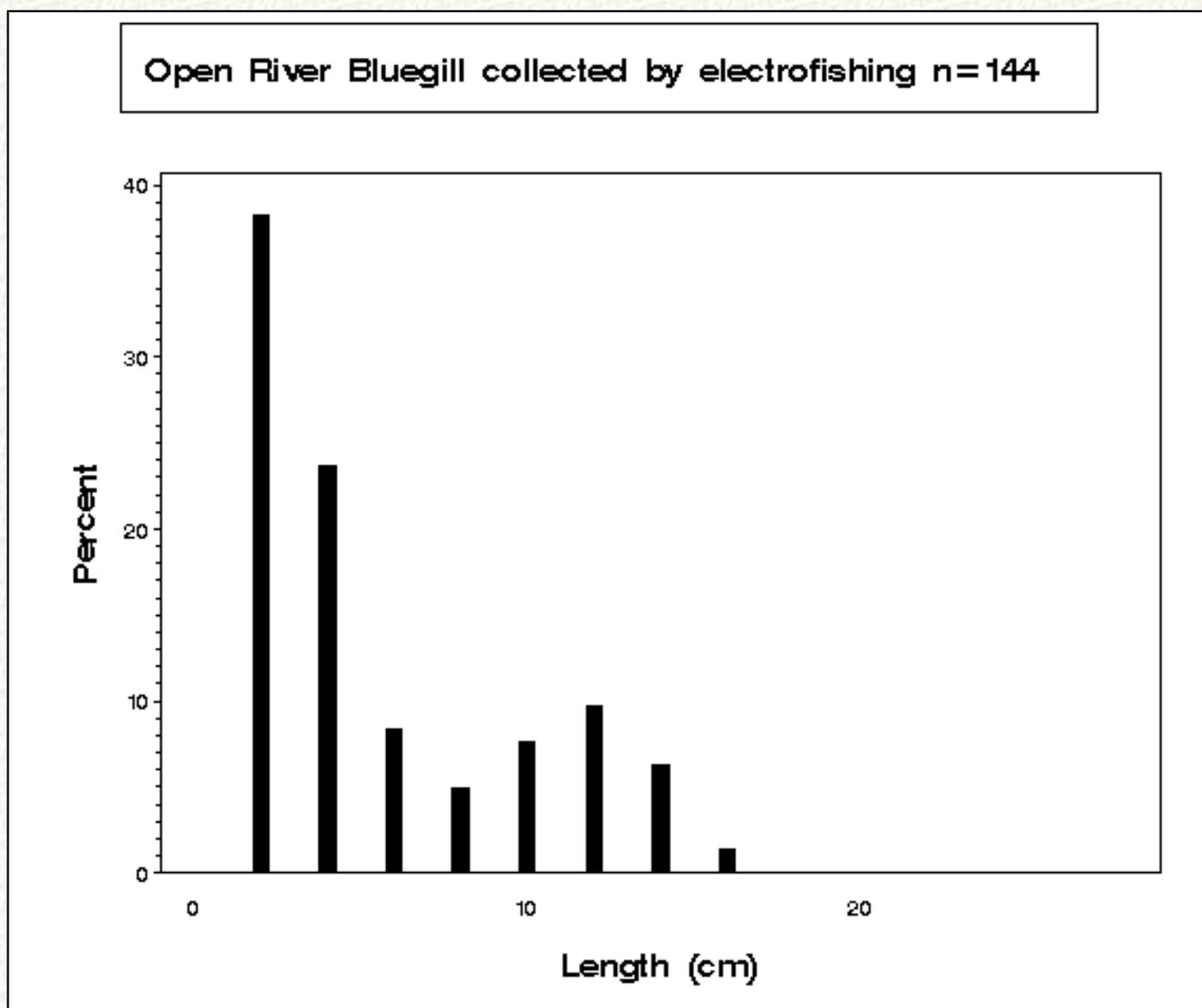
**Figure 10.5** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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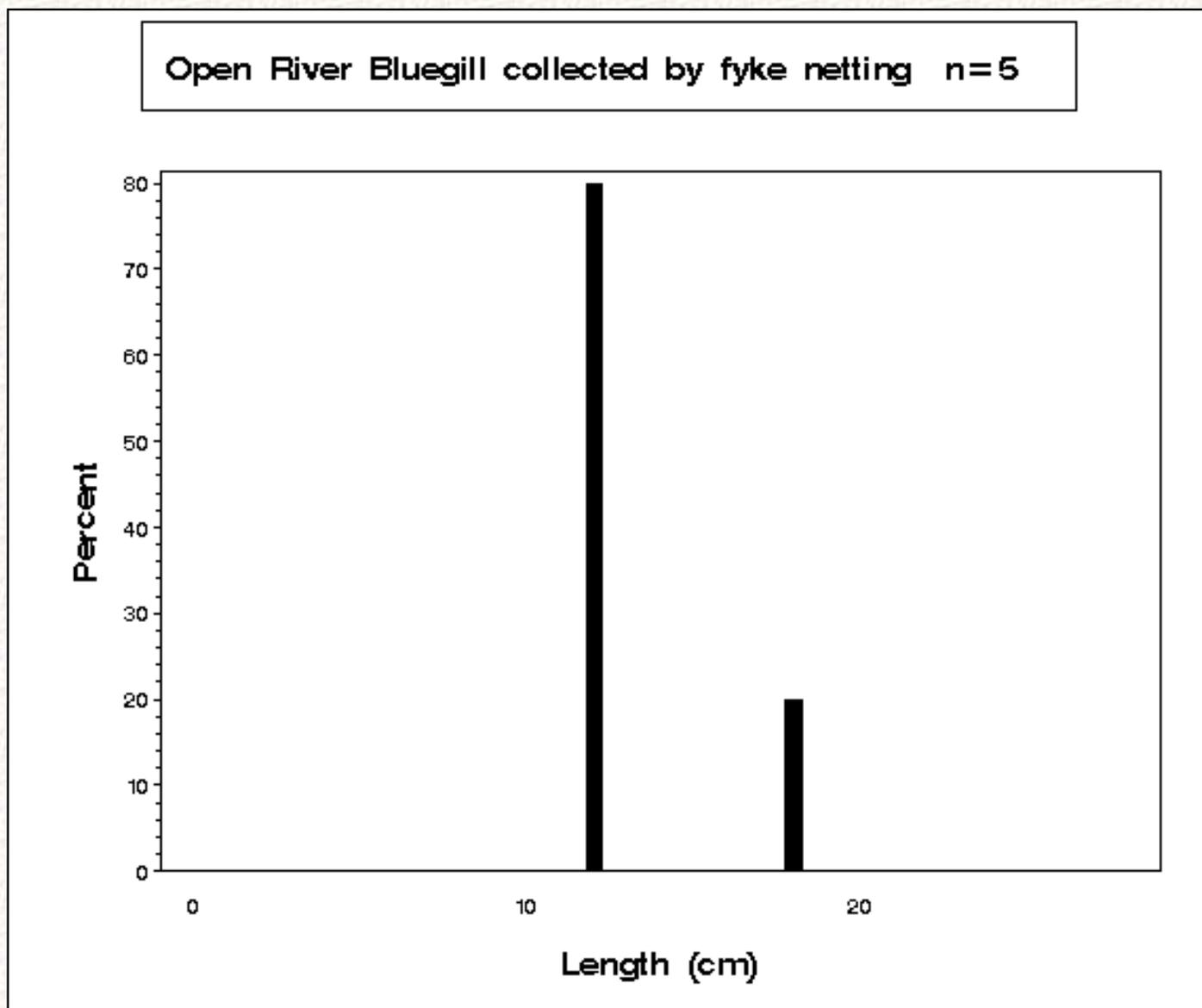
**Figure 11.5** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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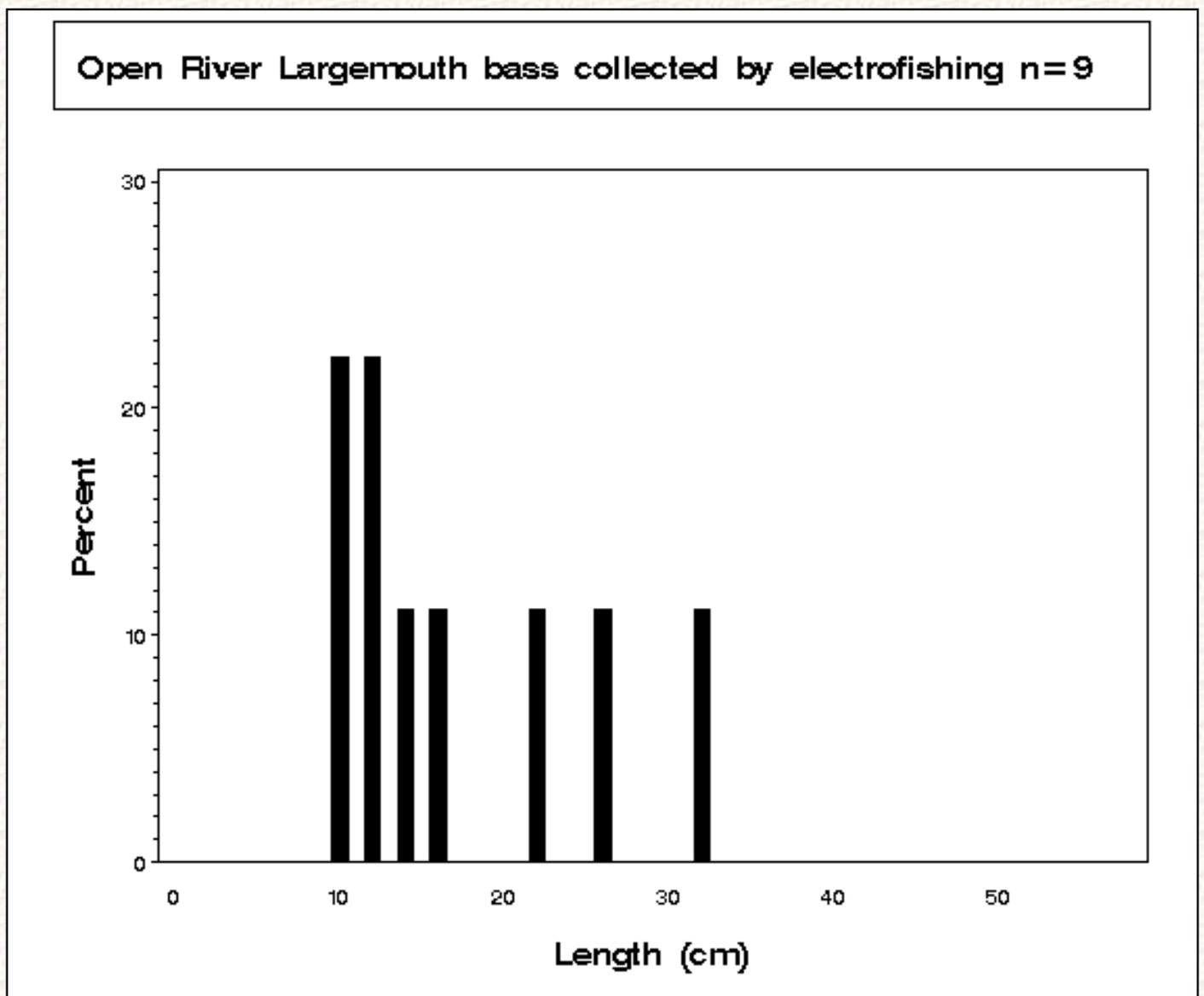
**Figure 12.5** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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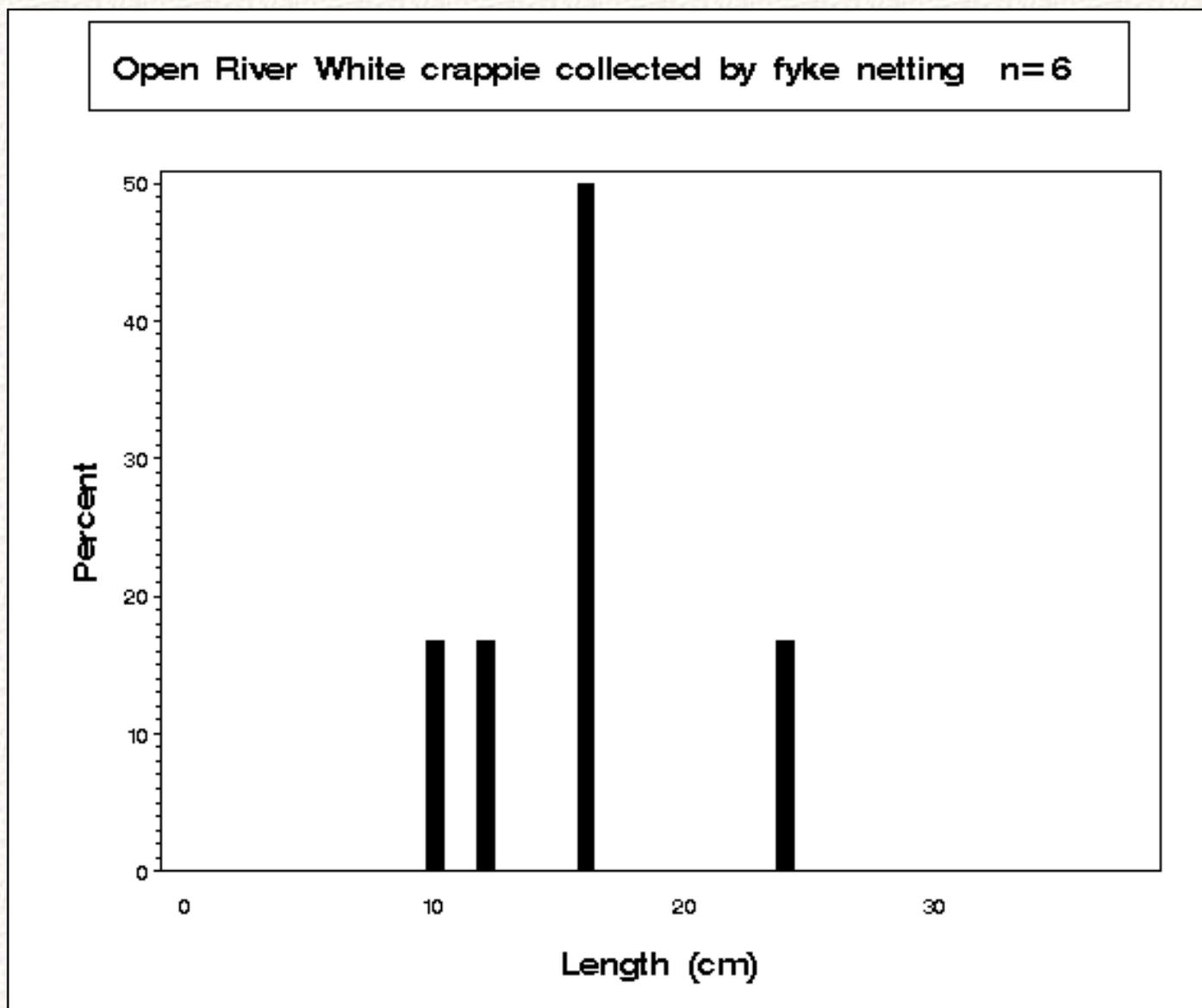
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**Figure 13.5** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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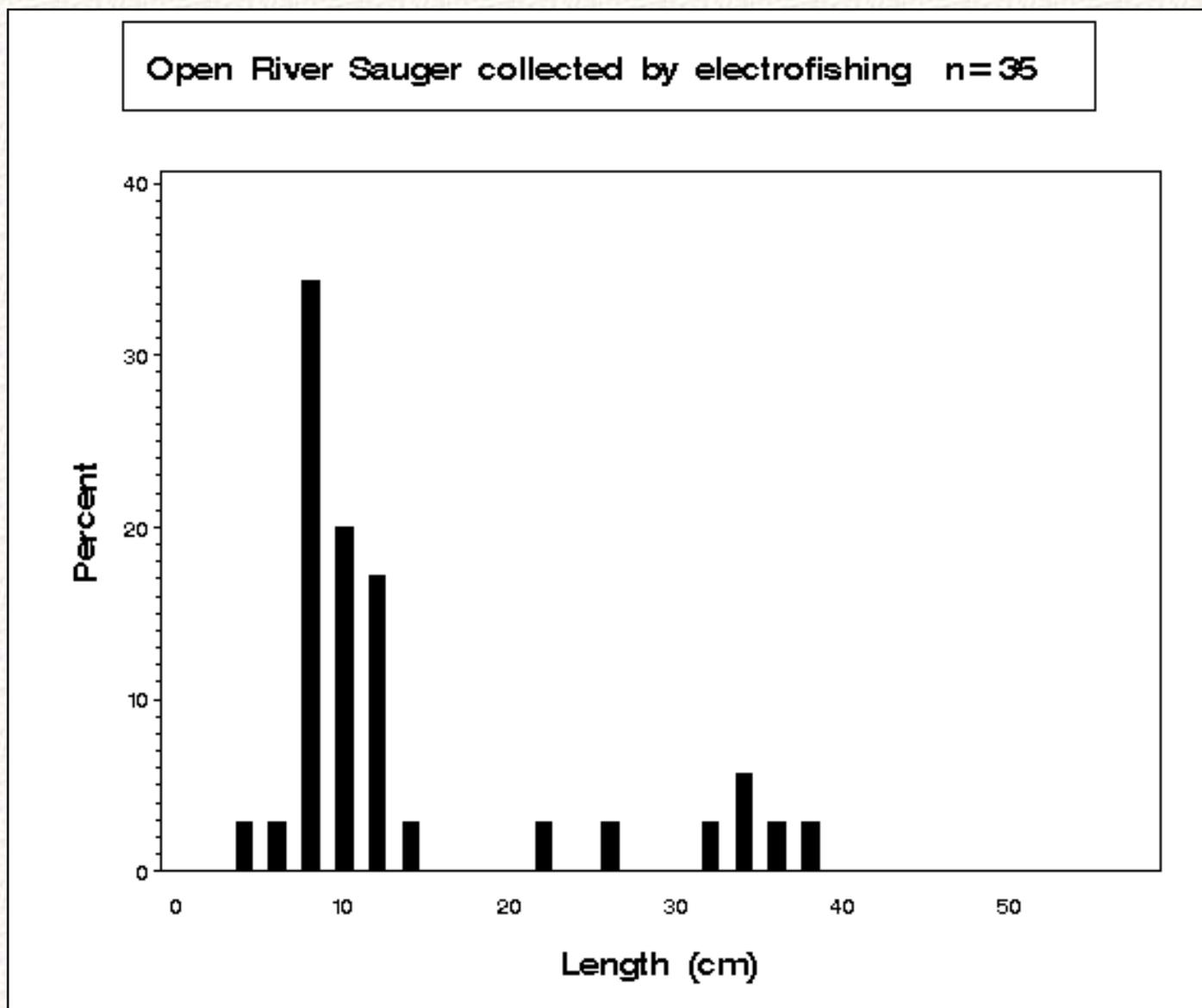
**Figure 14.5** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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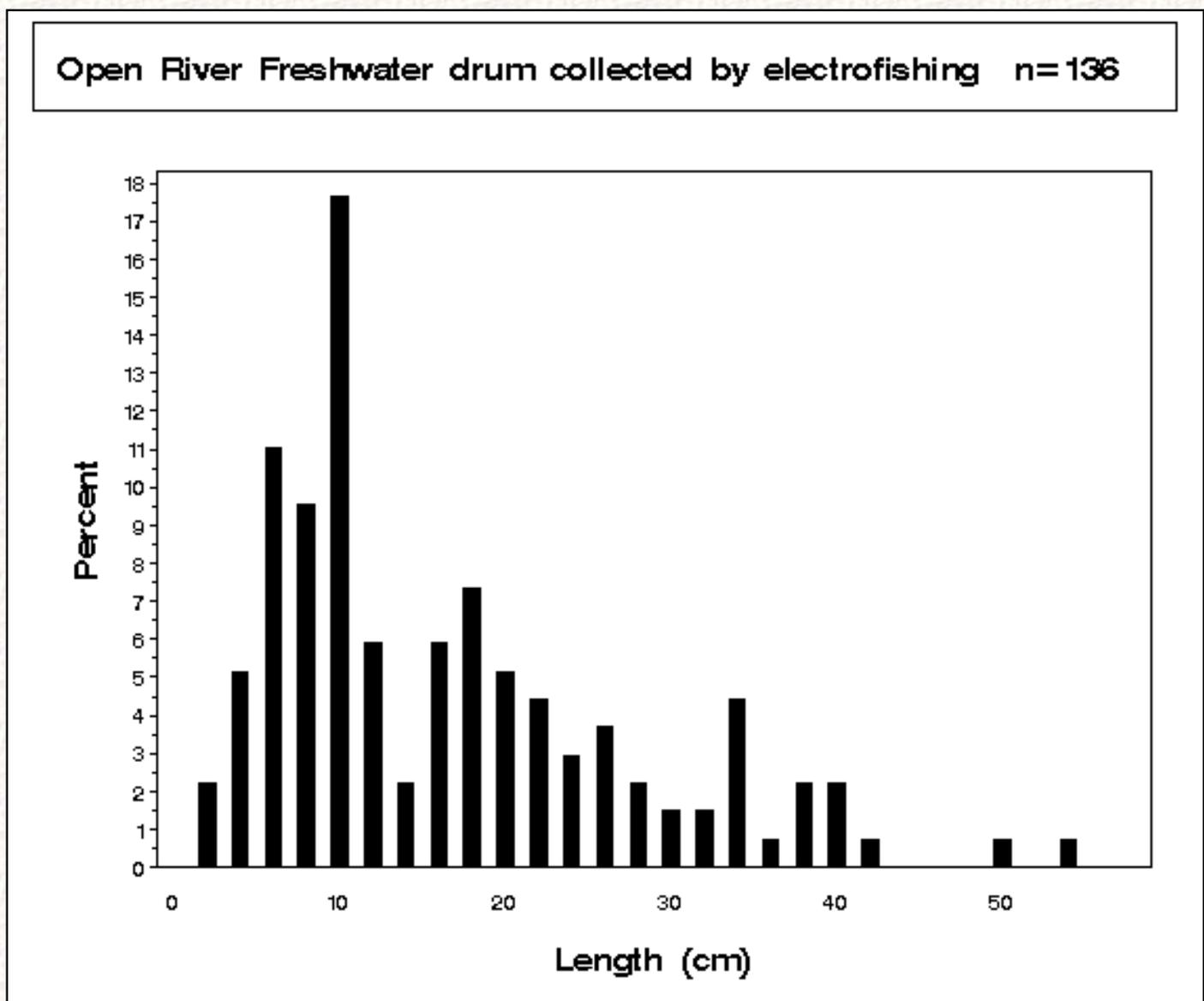
**Figure 16.5** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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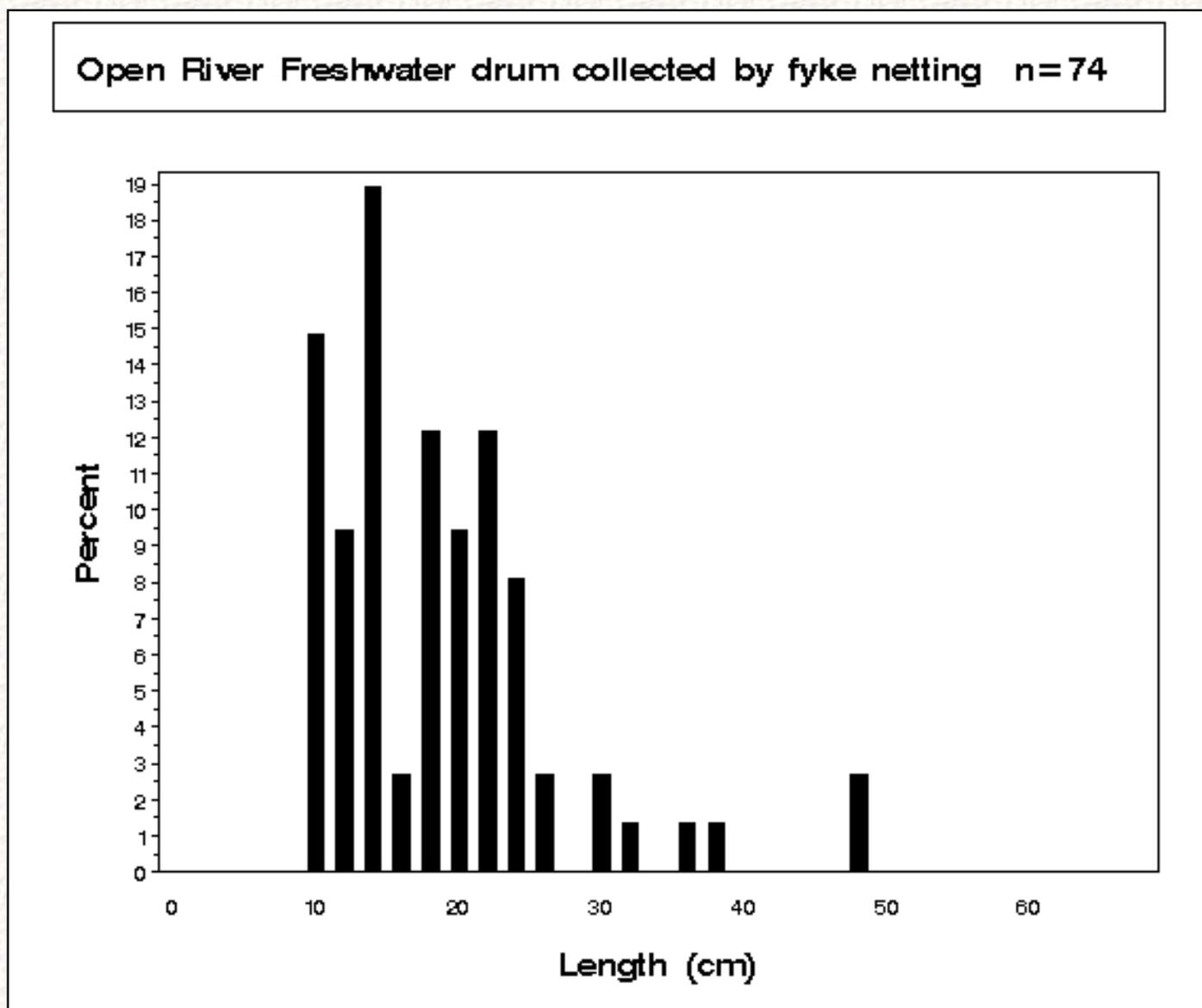
**Figure 18.5** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in Open River of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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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 2001. [Click here](#) to view this species' length distributions in all study reaches.



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## La Grange Pool, Illinois River 2001 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 2001. Information on changes in fish catch over all years can be obtained from the [Graphical Fish Database Browser](#).

- 552 fish collections were made in La Grange Pool during 2001 using 10 gear types ([Table 2.6](#)).
- All gear allocations were completed among strata for all three sampling periods ([Table 2.6](#); [Figure 1.6](#)).
- Of the 552 fish collections, 420 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](#)).
- 169,359 fish representing 71 species and 4 hybrids ([Table 3.6](#)). This was the highest annual catch for LTRMP on La Grange Pool.
- Historical fish distribution records for the Illinois River (Smith 1979) document 115 fish species from La Grange Pool.
- There were no new species collected from this reach in 2001 ([Table 3.6](#)).
- Throughout monitoring of La Grange Pool by LTRMP, we have collected a total of

940,647 fish, consisting of 84 species and 10 hybrids.

- 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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*Last updated on September 10, 2004*

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**Table 2.6** Allocation of fish sampling effort among strata in La Grange Pool of the Illinois River during 2001. 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	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>

**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	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

<b>Night electrofishing</b>			2						4	6
<b>Seine</b>	8		12	12						32
<b>Trawling</b>									8	8
<b>Tandem fyke net</b>		6								6
<b>Tandem mini fyke net</b>		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>

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

<b>Sampling gear</b>	<b>BWCS</b>	<b>BWCO</b>	<b>SCB</b>	<b>MCBU</b>	<b>MCBW</b>	<b>IMPS</b>	<b>IMPO</b>	<b>TRI</b>	<b>TWZ</b>	<b>TOTAL</b>
<b>Day electrofishing</b>	12		14	12					4	42
<b>Fyke net</b>	10								4	14
<b>Large hoop net</b>			8	8					4	20
<b>Small hoop net</b>			8	8					4	20
<b>Mini fyke net</b>	10		8	8					4	30
<b>Night electrofishing</b>			2						4	6
<b>Seine</b>	8		12	12						32
<b>Trawling</b>									8	8
<b>Tandem fyke net</b>		6								6
<b>Tandem mini fyke net</b>		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>120</b>	<b>36</b>	<b>156</b>	<b>144</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>96</b>	<b>552</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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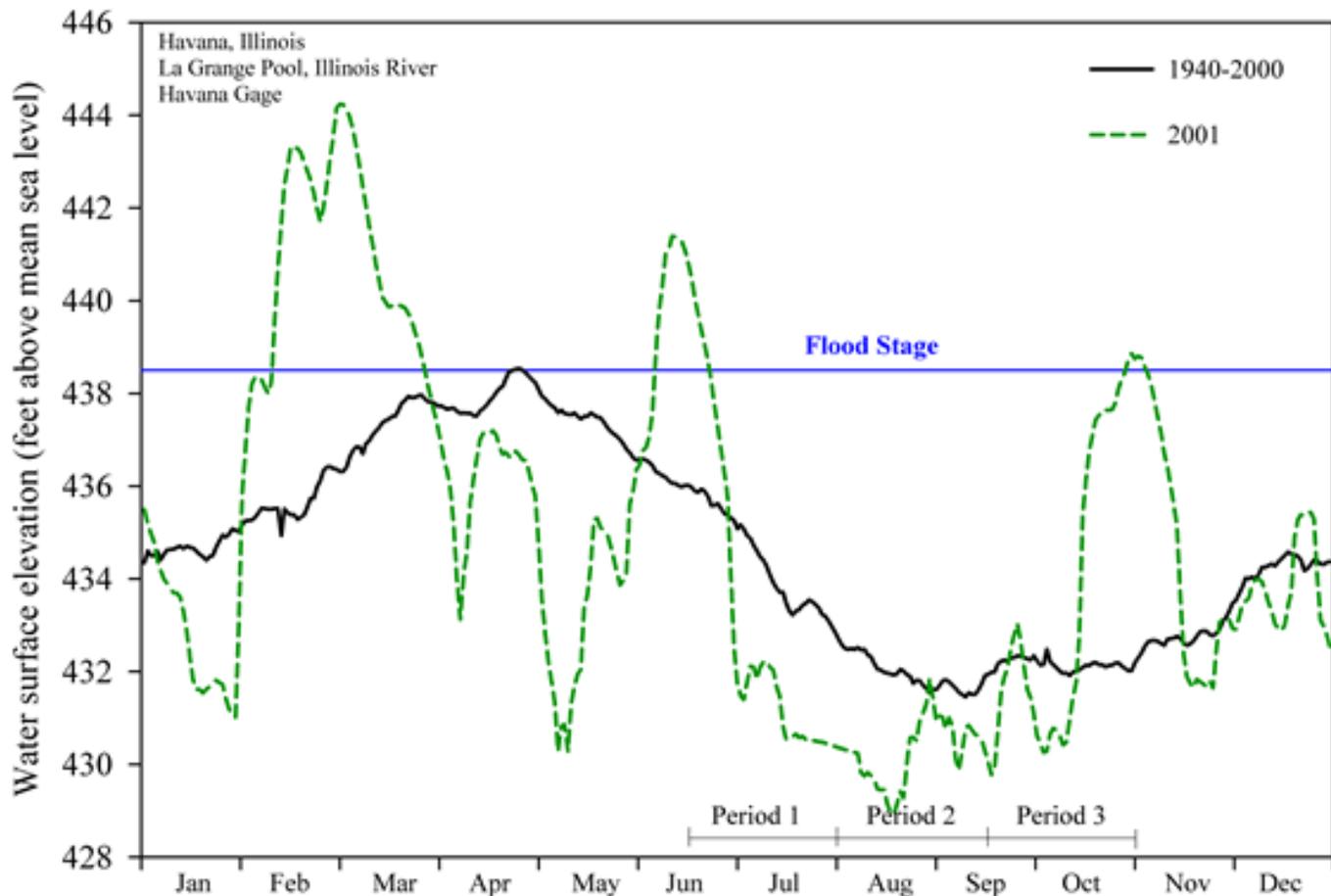


Figure 1.6. Daily water surface elevation from Havana Gage for La Grange Pool, Illinois River, during 2001 and mean elevation since 1940. The U.S. Army Corps of Engineers discharge data were obtained in accordance with Upper Midwest Environmental Sciences Center established procedures (Wlosinski et al. 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 2001. 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	T	TOTAL
1	Spotted gar	<i>Lepisosteus oculatus</i>	3	-	1	-	4	-	-	-	-	-	-	8
2	Longnose gar	<i>L. osseus</i>	11	3	2	-	2	-	-	-	-	-	-	18
3	Shortnose gar	<i>L. platostomus</i>	161	134	291	52	197	12	7	1	1	-	-	856
4	Bowfin	<i>Amia calva</i>	5	1	24	6	1	-	-	-	-	-	-	37
5	Goldeye	<i>Hiodon alosoides</i>	4	4	1	-	-	-	-	-	-	-	-	9
6	American eel	<i>Anguilla rostrata</i>	-	-	-	-	-	-	-	1	-	-	-	1
7	Skipjack herring	<i>Alosa chrysochloris</i>	175	9	4	-	35	7	41	-	-	-	-	271
8	Gizzard shad	<i>Dorosoma cepedianum</i>	9884	3473	1174	663	8312	1492	4528	-	8	-	-	29534
9	Threadfin shad	<i>D. petenense</i>	442	40	16	1	94619	120	590	-	-	-	-	95828
10	Central stoneroller	<i>Campostoma anomalum</i>	1	-	-	-	1	-	-	-	-	-	-	2
11	Unidentified herring	<i>Clupeidae</i> sp.	15	1	-	-	716	11	34	-	-	-	-	777
12	Goldfish	<i>Carassius auratus</i>	27	3	4	-	2	-	-	-	-	-	-	36
13	Grass carp	<i>Ctenopharyngodon idella</i>	33	14	5	-	7	1	2	-	-	-	-	62
14	Red shiner	<i>Cyprinella lutrensis</i>	50	8	-	-	316	-	18	-	-	-	-	392
15	Common carp	<i>Cyprinus carpio</i>	1749	166	229	61	96	21	5	312	769	-	4	3412
16	Carp x goldfish hybrid	<i>C. carpio x auratus</i>	16	4	3	-	4	-	1	-	3	-	-	31
17	Silver carp	<i>Hypophthalmichthys molitrix</i>	56	8	-	7	1	-	-	-	2	-	-	74
18	Bighead carp	<i>H. nobilis</i>	75	5	117	31	18	3	4	2	398	-	-	653
19	Silver chub	<i>Macrhybopsis storeriana</i>	3	-	-	-	2	-	1	-	-	-	-	6
20	Golden shiner	<i>Notemigonus crysoleucas</i>	8	-	-	-	29	1	2	-	-	-	-	40
21	Emerald shiner	<i>Notropis atherinoides</i>	661	2581	-	-	6471	466	4494	-	-	-	-	14673

22	River shiner	<i>N. blennius</i>	7	-	-	-	47	-	17	-	-	-	-	71
23	Spottail shiner	<i>N. hudsonius</i>	1	-	-	-	3	-	-	-	-	-	-	4
24	Silverband shiner	<i>N. shumardi</i>	5	3	-	-	88	2	10	-	-	-	-	108
25	Sand shiner	<i>N. stramineus</i>	-	-	-	-	8	-	9	-	-	-	-	17
26	Suckermouth minnow	<i>Phenacobius mirabilis</i>	-	-	-	-	1	-	-	-	-	-	-	1
27	Bluntnose minnow	<i>Pimephales notatus</i>	2	-	-	-	37	-	-	-	-	-	-	39
28	Fathead minnow	<i>P. promelas</i>	-	-	-	-	1	-	-	-	-	-	-	1
29	Bullhead minnow	<i>P. vigilax</i>	34	10	-	-	236	11	248	-	-	-	-	539
30	Creek chub	<i>Semotilus atromaculatus</i>	4	-	-	-	17	-	1	-	-	-	-	22
31	River carpsucker	<i>Carpionodes carpio</i>	78	13	36	41	1	1	10	-	9	-	-	189
32	Quillback	<i>C. cyprinus</i>	-	-	1	-	-	-	-	-	-	-	-	1
33	Highfin carpsucker	<i>C. velifer</i>	2	1	-	-	-	-	-	-	1	-	-	4
34	Northern hog sucker	<i>Hypentelium nigricans</i>	1	-	-	-	-	-	-	-	-	-	-	1
35	Smallmouth buffalo	<i>Ictiobus bubalus</i>	690	117	84	16	47	4	50	35	840	-	-	1883
36	Bigmouth buffalo	<i>I. cyprinellus</i>	633	50	31	12	26	9	1	-	3	-	-	765
37	Black buffalo	<i>I. niger</i>	31	7	3	-	2	-	-	1	12	-	-	56
38	Unidentified buffalo	<i>Ictiobus</i> sp.	55	3	-	-	175	16	73	-	-	-	-	322
39	Silver redhorse	<i>Moxostoma anisurum</i>	1	-	2	-	-	-	-	-	2	-	-	5
40	Golden redhorse	<i>M. erythrurum</i>	4	1	3	-	-	-	-	-	-	-	-	8
41	Shorthead redhorse	<i>M. macrolepidotum</i>	19	1	24	8	2	-	-	-	4	-	1	59
42	Black bullhead	<i>Ameiurus melas</i>	3	-	13	2	1074	-	39	1	-	-	-	1132
43	Yellow bullhead	<i>A. natalis</i>	11	-	13	1	24	6	-	-	-	-	-	55
44	Brown bullhead	<i>A. nebulosus</i>	2	-	11	14	-	-	-	-	1	-	-	28
45	Channel catfish	<i>Ictalurus punctatus</i>	279	23	10	2	193	9	11	458	75	-	649	1709
46	Stonecat	<i>Noturus flavus</i>	-	-	-	-	1	-	-	-	-	-	-	1
47	Tadpole madtom	<i>N. gyrinus</i>	-	-	-	-	3	-	-	-	-	-	-	3
48	Freckled madtom	<i>N. nocturnus</i>	-	-	-	-	-	-	-	-	-	-	2	2

49	Flathead catfish	<i>Pylodictis olivaris</i>	50	14	5	-	1	-	-	4	19	-	-	93
50	Northern pike	<i>Esox lucius</i>	-	-	1	-	2	-	-	-	-	-	-	3
51	Pirate perch	<i>Aphredoderus sayanus</i>	-	-	-	-	1	1	-	-	-	-	-	2
52	Blackstripe topminnow	<i>Fundulus notatus</i>	11	-	-	-	7	-	-	-	-	-	-	18
53	Western mosquitofish	<i>Gambusia affinis</i>	28	3	-	-	589	4	331	-	-	-	-	955
54	Brook silverside	<i>Labidesthes sicculus</i>	4	-	-	-	5	1	44	-	-	-	-	54
55	White perch	<i>Morone americana</i>	7	15	13	2	6	-	-	-	-	-	-	43
56	White bass	<i>M. chrysops</i>	746	367	308	58	1240	17	161	4	9	-	3	2913
57	Yellow bass	<i>M. mississippiensis</i>	43	30	114	41	26	1	5	1	-	-	1	262
58	Striped bass	<i>M. saxatilis</i>	1	3	-	-	-	-	-	-	1	-	-	5
59	Striped x white bass	<i>M. saxatilis x chrysops</i>	3	1	-	-	-	-	-	-	-	-	-	4
60	Green sunfish	<i>Lepomis cyanellus</i>	27	3	3	1	19	-	1	-	-	-	-	54
61	Warmouth	<i>L. gulosus</i>	11	1	-	-	2	1	-	-	-	-	-	15
62	Orangespotted sunfish	<i>L. humilis</i>	66	-	10	4	186	47	1	-	-	-	-	314
63	Bluegill	<i>L. macrochirus</i>	718	102	502	33	921	553	220	2	-	-	-	3051
64	Longear sunfish	<i>L. megalotis</i>	7	-	1	-	-	-	-	-	-	-	-	8
65	Redear sunfish	<i>L. microlophus</i>	-	-	-	-	1	-	-	-	-	-	-	1
66	Green x bluegill sunfish	<i>L. cyanellus x macrochirus</i>	1	1	2	-	2	-	-	-	-	-	-	6
67	Smallmouth bass	<i>Micropterus dolomieu</i>	2	3	-	-	1	-	2	-	-	-	-	8
68	Largemouth bass	<i>M. salmoides</i>	312	73	14	3	97	-	79	-	-	-	-	578
69	White crappie	<i>Pomoxis annularis</i>	89	36	136	37	336	175	33	-	-	-	-	842
70	Black crappie	<i>P. nigromaculatus</i>	82	7	303	38	133	444	34	1	3	-	-	1045
71	Mud darter	<i>Etheostoma asprigene</i>	-	-	-	-	1	-	-	-	-	-	-	1
72	Logperch	<i>Percina caprodes</i>	4	2	-	-	24	-	7	-	-	-	-	37
73	Slenderhead darter	<i>P. phoxocephala</i>	1	-	-	-	7	2	1	-	-	-	-	11
74	Sauger	<i>Stizostedion canadense</i>	45	18	9	1	71	1	13	-	-	-	3	161
75	Walleye	<i>S. vitreum</i>	5	5	2	-	1	-	-	-	-	-	2	15
76	Freshwater drum	<i>Aplodinotus grunniens</i>	455	77	255	111	2206	232	256	14	50	-	1425	5081
77	Unidentified	Unidentified	-	-	-	-	-	-	1	-	-	-	-	1

78	White perch x Yellow bass	<i>Morone americana</i> x <i>M. mississ</i>	11	9	8	1	2	1	-	1	-	-	-	33
			<b>17970</b>	<b>7453</b>	<b>3788</b>	<b>1247</b>	<b>118706</b>	<b>3672</b>	<b>11385</b>	<b>838</b>	<b>2210</b>	<b>0</b>	<b>2090</b>	<b>169359</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*[Contact the Upper Midwest Environmental Sciences Center](#)[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2001/la\\_grange/tb2\\_ha.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/la_grange/tb2_ha.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ▶


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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

\*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 4.6** 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 2001. 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>	0.01	0.03		0.05
	(0.01)	(0.03)		(0.04)
<b>Longnose gar</b>	0.05	0.03	0.06	0.14
	(0.03)	(0.03)	(0.04)	(0.07)
<b>Shortnose gar</b>	0.40	0.28	0.44	0.41
	(0.09)	(0.09)	(0.12)	(0.11)
<b>Bowfin</b>	0.02	0.08		
	(0.01)	(0.05)		
<b>Goldeye</b>	0.00			0.03
	(0.00)			(0.03)
<b>Skipjack herring</b>	1.65	0.69	2.03	1.35
	(0.38)	(0.29)	(0.53)	(0.68)
<b>Gizzard shad</b>	78.29	35.00	93.83	85.57

	(11.35)	(8.39)	(16.00)	(15.59)
<b>Threadfin shad</b>	3.15	2.97	3.19	3.43
	(0.64)	(0.78)	(0.86)	(2.09)
<b>Central stoneroller</b>	0.02		0.03	
	(0.02)		(0.03)	
<b>Goldfish</b>	0.23	0.19	0.25	0.11
	(0.12)	(0.08)	(0.17)	(0.05)
<b>Grass carp</b>	0.14	0.53		0.16
	(0.04)	(0.15)		(0.07)
<b>Red shiner</b>	0.29	0.25	0.31	0.35
	(0.18)	(0.17)	(0.25)	(0.17)
<b>Common carp</b>	10.43	23.00	5.44	15.46
	(1.15)	(2.91)	(1.25)	(2.76)
<b>Carp x goldfish hybrid</b>	0.10	0.31	0.03	0.05
	(0.03)	(0.11)	(0.03)	(0.04)
<b>Silver carp</b>	0.20	0.25	0.14	0.86
	(0.06)	(0.15)	(0.07)	(0.26)
<b>Bighead carp</b>	0.78	0.53	0.89	0.51
	(0.36)	(0.43)	(0.49)	(0.18)
<b>Silver chub</b>	0.04		0.06	
	(0.03)		(0.04)	
<b>Golden shiner</b>	0.06	0.17	0.03	0.03
	(0.03)	(0.07)	(0.03)	(0.03)

<b>Emerald shiner</b>	5.69	3.06	6.67	5.68
	(1.06)	(0.68)	(1.50)	(1.32)
<b>River shiner</b>	0.02		0.03	0.03
	(0.02)		(0.03)	(0.03)
<b>Spottail shiner</b>	0.00			0.03
	(0.00)			(0.03)
<b>Silverband shiner</b>	0.01	0.03		0.11
	(0.01)	(0.03)		(0.11)
<b>Bluntnose minnow</b>	0.03	0.03	0.03	
	(0.02)	(0.03)	(0.03)	
<b>Bullhead minnow</b>	0.24	0.50	0.14	0.22
	(0.08)	(0.18)	(0.09)	(0.17)
<b>Creek chub</b>	0.05	0.06	0.06	
	(0.04)	(0.06)	(0.06)	
<b>River carpsucker</b>	0.52	1.33	0.22	0.46
	(0.13)	(0.43)	(0.09)	(0.18)
<b>Highfin carpsucker</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Northern hog sucker</b>	0.02		0.03	
	(0.02)		(0.03)	
<b>Smallmouth buffalo</b>	3.46	10.14	0.92	4.65
	(0.53)	(1.99)	(0.19)	(0.64)
<b>Bigmouth buffalo</b>	3.89	12.14	0.86	3.59

	(0.79)	(3.01)	(0.26)	(1.28)
<b>Black buffalo</b>	0.19	0.56	0.06	0.14
	(0.04)	(0.13)	(0.04)	(0.07)
<b>Unidentified buffalo</b>	0.32	0.92	0.11	0.19
	(0.19)	(0.68)	(0.11)	(0.09)
<b>Silver redhorse</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Golden redhorse</b>	0.02	0.06		0.05
	(0.01)	(0.06)		(0.05)
<b>Shorthead redhorse</b>	0.11	0.17	0.08	0.19
	(0.05)	(0.07)	(0.06)	(0.07)
<b>Black bullhead</b>	0.01	0.06		
	(0.01)	(0.04)		
<b>Yellow bullhead</b>	0.08	0.31		
	(0.03)	(0.12)		
<b>Brown bullhead</b>	0.01	0.06		
	(0.01)	(0.06)		
<b>Channel catfish</b>	2.51	3.00	2.39	1.62
	(0.36)	(0.62)	(0.46)	(0.36)
<b>Flathead catfish</b>	0.30	0.33	0.28	0.49
	(0.08)	(0.14)	(0.11)	(0.11)
<b>Blackstripe topminnow</b>	0.01	0.06		
	(0.01)	(0.04)		

<b>Western mosquitofish</b>	0.11	0.28	0.03	0.46
	(0.05)	(0.16)	(0.03)	(0.36)
<b>Brook silverside</b>	0.03	0.11		
	(0.02)	(0.09)		
<b>White perch</b>	0.04	0.14		
	(0.02)	(0.08)		
<b>White bass</b>	3.26	4.56	2.81	2.78
	(0.55)	(1.51)	(0.55)	(0.70)
<b>Yellow bass</b>	0.23	0.83	0.03	
	(0.09)	(0.35)	(0.03)	
<b>Striped x white bass</b>	0.02		0.03	
	(0.02)		(0.03)	
<b>Green sunfish</b>	0.20	0.61	0.06	
	(0.07)	(0.23)	(0.06)	
<b>Warmouth</b>	0.06	0.25		
	(0.03)	(0.11)		
<b>Orangespotted sunfish</b>	0.48	1.61	0.08	0.14
	(0.27)	(1.05)	(0.08)	(0.09)
<b>Bluegill</b>	4.40	15.81	0.39	1.22
	(0.80)	(3.11)	(0.12)	(0.40)
<b>Longear sunfish</b>	0.05	0.19		
	(0.05)	(0.19)		
<b>Green x bluegill sunfish</b>	0.01	0.03		

	(0.01)	(0.03)		
<b>Largemouth bass</b>	1.71	5.44	0.39	0.70
	(0.31)	(1.09)	(0.18)	(0.17)
<b>White crappie</b>	0.24	0.72	0.06	0.32
	(0.06)	(0.21)	(0.04)	(0.13)
<b>Black crappie</b>	0.40	1.39	0.03	0.43
	(0.09)	(0.33)	(0.03)	(0.14)
<b>Logperch</b>	0.05	0.03	0.06	
	(0.04)	(0.03)	(0.06)	
<b>Slenderhead darter</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Sauger</b>	0.33	0.75	0.19	0.03
	(0.11)	(0.36)	(0.08)	(0.03)
<b>Walleye</b>	0.10		0.14	
	(0.10)		(0.14)	
<b>Freshwater drum</b>	3.48	8.94	1.58	1.57
	(0.52)	(1.71)	(0.40)	(0.30)

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


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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 2001. 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>Spotted gar</b>	0.03	0.03
	(0.03)	(0.03)
<b>Shortnose gar</b>	2.33	2.33
	(0.65)	(0.65)
<b>Bowfin</b>	0.73	0.73
	(0.31)	(0.31)
<b>Skipjack herring</b>	0.04	0.04
	(0.04)	(0.04)
<b>Gizzard shad</b>	10.53	10.53
	(6.95)	(6.98)
<b>Threadfin shad</b>	0.03	0.03
	(0.03)	(0.03)
<b>Goldfish</b>	0.07	0.07

	(0.05)	(0.05)
<b>Grass carp</b>	0.13	0.13
	(0.10)	(0.10)
<b>Common carp</b>	3.91	3.91
	(0.80)	(0.81)
<b>Bighead carp</b>	3.50	3.50
	(2.15)	(2.16)
<b>River carpsucker</b>	0.96	0.96
	(0.26)	(0.26)
<b>Quillback</b>	0.03	0.03
	(0.03)	(0.03)
<b>Smallmouth buffalo</b>	1.74	1.74
	(0.51)	(0.51)
<b>Bigmouth buffalo</b>	0.49	0.49
	(0.31)	(0.31)
<b>Black buffalo</b>	0.06	0.06
	(0.04)	(0.04)
<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>	0.69	0.69
	(0.31)	(0.31)

<b>Black bullhead</b>	0.16	0.16
	(0.09)	(0.09)
<b>Yellow bullhead</b>	0.33	0.33
	(0.16)	(0.17)
<b>Brown bullhead</b>	0.37	0.37
	(0.15)	(0.16)
<b>Channel catfish</b>	0.10	0.10
	(0.06)	(0.06)
<b>Flathead catfish</b>	0.03	0.03
	(0.03)	(0.03)
<b>White perch</b>	0.23	0.23
	(0.13)	(0.14)
<b>White bass</b>	2.95	2.95
	(0.88)	(0.89)
<b>Yellow bass</b>	2.62	2.62
	(1.38)	(1.39)
<b>Orangespotted sunfish</b>	0.16	0.16
	(0.11)	(0.11)
<b>Bluegill</b>	12.78	12.78
	(4.93)	(4.95)
<b>Green x bluegill sunfish</b>	0.03	0.03
	(0.03)	(0.03)
<b>Largemouth bass</b>	0.40	0.40

	(0.11)	(0.11)
<b>White crappie</b>	1.34	1.34
	(0.35)	(0.36)
<b>Black crappie</b>	6.65	6.65
	(3.06)	(3.07)
<b>Sauger</b>	0.03	0.03
	(0.03)	(0.03)
<b>Freshwater drum</b>	3.39	3.39
	(1.11)	(1.11)

**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 2001. 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>	1.44	1.44
	(0.40)	(0.40)
<b>Bowfin</b>	0.17	0.17
	(0.07)	(0.07)
<b>Gizzard shad</b>	18.47	18.47
	(7.97)	(7.98)
<b>Threadfin shad</b>	0.03	0.03
	(0.03)	(0.03)
<b>Common carp</b>	1.68	1.68
	(0.62)	(0.62)
<b>Silver carp</b>	0.19	0.19
	(0.17)	(0.17)
<b>Bighead carp</b>	0.85	0.85

	(0.32)	(0.32)
<b>River carpsucker</b>	1.16	1.16
	(0.69)	(0.69)
<b>Smallmouth buffalo</b>	0.45	0.45
	(0.15)	(0.15)
<b>Bigmouth buffalo</b>	0.34	0.34
	(0.29)	(0.29)
<b>Shorthead redhorse</b>	0.22	0.22
	(0.14)	(0.14)
<b>Black bullhead</b>	0.05	0.05
	(0.04)	(0.04)
<b>Yellow bullhead</b>	0.03	0.03
	(0.03)	(0.03)
<b>Brown bullhead</b>	0.39	0.39
	(0.17)	(0.17)
<b>Channel catfish</b>	0.06	0.06
	(0.04)	(0.04)
<b>White perch</b>	0.06	0.06
	(0.04)	(0.04)
<b>White bass</b>	1.61	1.61
	(0.44)	(0.44)
<b>Yellow bass</b>	1.14	1.14
	(0.34)	(0.35)

<b>Green sunfish</b>	0.03	0.03
	(0.03)	(0.03)
<b>Orangespotted sunfish</b>	0.11	0.11
	(0.11)	(0.11)
<b>Bluegill</b>	0.92	0.92
	(0.24)	(0.24)
<b>Largemouth bass</b>	0.08	0.08
	(0.05)	(0.05)
<b>White crappie</b>	1.04	1.04
	(0.27)	(0.27)
<b>Black crappie</b>	1.06	1.06
	(0.38)	(0.38)
<b>Sauger</b>	0.03	0.03
	(0.03)	(0.03)
<b>Freshwater drum</b>	3.13	3.13
	(0.81)	(0.81)

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

*Last updated on August 26, 2004*

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[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/2001/lagrange/tb3\\_ha0005.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/lagrange/tb3_ha0005.html)

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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 2001. 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>	0.05	0.10	0.04	
	(0.03)	(0.06)	(0.04)	
<b>Longnose gar</b>	0.01	0.03		0.05
	(0.01)	(0.03)		(0.05)
<b>Shortnose gar</b>	3.53	0.97	4.58	1.87
	(1.54)	(0.45)	(2.21)	(1.09)
<b>Bowfin</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Skipjack herring</b>	0.49	0.03	0.69	0.16
	(0.31)	(0.03)	(0.45)	(0.12)
<b>Gizzard shad</b>	154.36	47.95	200.61	49.16
	(73.09)	(18.70)	(104.81)	(26.50)
<b>Threadfin shad</b>	59.71	12.53	44.56	558.67

	(21.59)	(7.81)	(22.32)	(330.96)
<b>Goldfish</b>	0.06		0.08	
	(0.04)		(0.06)	
<b>Grass carp</b>	0.08	0.10	0.08	
	(0.06)	(0.06)	(0.08)	
<b>Red shiner</b>	3.18	6.22	2.20	1.00
	(1.09)	(3.53)	(0.87)	(0.73)
<b>Common carp</b>	0.98	0.74	1.03	1.61
	(0.39)	(0.34)	(0.54)	(1.10)
<b>Carp x goldfish hybrid</b>	0.03	0.13		
	(0.03)	(0.13)		
<b>Silver carp</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Bighead carp</b>	0.09		0.08	0.72
	(0.06)		(0.08)	(0.48)
<b>Silver chub</b>	0.04	0.03	0.04	
	(0.03)	(0.03)	(0.04)	
<b>Golden shiner</b>	0.21	0.54	0.08	0.27
	(0.09)	(0.32)	(0.06)	(0.17)
<b>Emerald shiner</b>	117.87	21.99	157.14	59.92
	(37.61)	(10.71)	(53.89)	(18.38)
<b>River shiner</b>	1.11	0.03	1.56	0.41
	(0.78)	(0.03)	(1.12)	(0.36)

<b>Spottail shiner</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Silverband shiner</b>	1.64	0.03	2.27	1.01
	(0.81)	(0.03)	(1.16)	(0.74)
<b>Sand shiner</b>	0.09		0.13	0.05
	(0.05)		(0.07)	(0.05)
<b>Suckermouth minnow</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Bluntnose minnow</b>	0.29	0.67	0.17	0.11
	(0.10)	(0.29)	(0.10)	(0.07)
<b>Bullhead minnow</b>	3.19	3.07	3.27	2.64
	(0.86)	(1.78)	(1.05)	(0.98)
<b>Creek chub</b>	0.17	0.03	0.21	0.28
	(0.12)	(0.03)	(0.17)	(0.28)
<b>River carpsucker</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Smallmouth buffalo</b>	0.40	0.99	0.21	0.05
	(0.14)	(0.37)	(0.14)	(0.05)
<b>Bigmouth buffalo</b>	0.22	0.03	0.25	0.76
	(0.10)	(0.03)	(0.14)	(0.65)
<b>Black buffalo</b>	0.02	0.06		
	(0.01)	(0.04)		
<b>Unidentified buffalo</b>	3.17	1.07	4.08	1.10

	(1.76)	(0.40)	(2.52)	(0.79)
<b>Shorthead redhorse</b>	0.03		0.04	0.06
	(0.03)		(0.04)	(0.06)
<b>Black bullhead</b>	28.21	1.35	39.96	0.61
	(27.45)	(1.00)	(39.45)	(0.51)
<b>Yellow bullhead</b>	0.22	0.72	0.04	0.06
	(0.11)	(0.42)	(0.04)	(0.06)
<b>Channel catfish</b>	2.80	1.58	3.24	3.04
	(0.85)	(0.63)	(1.20)	(1.03)
<b>Stonecat</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Tadpole madtom</b>	0.03	0.10		
	(0.01)	(0.05)		
<b>Pirate perch</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Blackstripe topminnow</b>	0.07	0.17	0.04	
	(0.04)	(0.08)	(0.04)	
<b>Western mosquitofish</b>	2.31	1.47	0.94	27.96
	(0.90)	(0.62)	(0.41)	(18.73)
<b>Brook silverside</b>	0.03		0.04	0.11
	(0.03)		(0.04)	(0.08)
<b>White perch</b>	0.08	0.10	0.08	
	(0.04)	(0.07)	(0.06)	

<b>White bass</b>	14.57	1.99	18.76	21.73
	(2.85)	(0.69)	(4.06)	(8.01)
<b>Yellow bass</b>	0.38	0.16	0.47	0.17
	(0.16)	(0.13)	(0.22)	(0.12)
<b>Green sunfish</b>	0.31	0.13	0.40	
	(0.25)	(0.06)	(0.35)	
<b>Orangespotted sunfish</b>	1.66	5.03	0.48	0.50
	(0.47)	(1.70)	(0.24)	(0.15)
<b>Bluegill</b>	13.27	14.92	13.25	4.27
	(5.42)	(4.53)	(7.60)	(1.15)
<b>Redear sunfish</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Green x bluegill sunfish</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Smallmouth bass</b>	0.03		0.04	
	(0.03)		(0.04)	
<b>Largemouth bass</b>	1.50	0.23	1.98	1.26
	(0.45)	(0.08)	(0.64)	(0.72)
<b>White crappie</b>	3.43	2.93	3.43	6.25
	(0.83)	(0.78)	(1.16)	(1.82)
<b>Black crappie</b>	1.22	1.98	0.95	0.87
	(0.41)	(0.88)	(0.50)	(0.53)
<b>Mud darter</b>	0.00			0.05

	(0.00)			(0.05)
<b>Loggerhead</b>	0.15	0.13	0.17	0.06
	(0.07)	(0.08)	(0.10)	(0.06)
<b>Slenderhead darter</b>	0.08	0.07	0.08	0.11
	(0.06)	(0.05)	(0.08)	(0.08)
<b>Sauger</b>	0.15		0.21	
	(0.10)		(0.14)	
<b>Walleye</b>	0.01	0.03		
	(0.01)	(0.03)		
<b>Freshwater drum</b>	31.06	3.17	40.89	38.54
	(19.59)	(1.04)	(28.12)	(18.12)

**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/2001/lagrange/tb3\\_ha0006.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/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 2001. 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>	0.36	0.36
	(0.16)	(0.16)
<b>Skipjack herring</b>	0.21	0.21
	(0.21)	(0.21)
<b>Gizzard shad</b>	42.77	42.77
	(32.54)	(32.58)
<b>Threadfin shad</b>	3.48	3.48
	(2.14)	(2.14)
<b>Grass carp</b>	0.03	0.03
	(0.03)	(0.03)
<b>Common carp</b>	0.62	0.62
	(0.36)	(0.36)
<b>Bighead carp</b>	0.09	0.09

	(0.05)	(0.05)
<b>Golden shiner</b>	0.03	0.03
	(0.03)	(0.03)
<b>Emerald shiner</b>	13.66	13.66
	(8.70)	(8.72)
<b>Silverband shiner</b>	0.06	0.06
	(0.04)	(0.04)
<b>Bullhead minnow</b>	0.26	0.26
	(0.15)	(0.15)
<b>River carpsucker</b>	0.03	0.03
	(0.03)	(0.03)
<b>Smallmouth buffalo</b>	0.12	0.12
	(0.05)	(0.05)
<b>Bigmouth buffalo</b>	0.27	0.27
	(0.20)	(0.20)
<b>Unidentified buffalo</b>	0.47	0.47
	(0.21)	(0.21)
<b>Yellow bullhead</b>	0.17	0.17
	(0.14)	(0.14)
<b>Channel catfish</b>	0.24	0.24
	(0.08)	(0.08)
<b>Pirate perch</b>	0.03	0.03
	(0.03)	(0.03)

<b>Western mosquitofish</b>	0.12	0.12
	(0.12)	(0.12)
<b>White bass</b>	0.50	0.50
	(0.26)	(0.26)
<b>Yellow bass</b>	0.03	0.03
	(0.03)	(0.03)
<b>Warmouth</b>	0.03	0.03
	(0.03)	(0.03)
<b>Orangespotted sunfish</b>	1.35	1.35
	(0.84)	(0.84)
<b>Bluegill</b>	15.98	15.98
	(10.45)	(10.47)
<b>White crappie</b>	5.25	5.25
	(2.56)	(2.56)
<b>Black crappie</b>	13.28	13.28
	(8.20)	(8.21)
<b>Slenderhead darter</b>	0.06	0.06
	(0.06)	(0.06)
<b>Sauger</b>	0.03	0.03
	(0.03)	(0.03)
<b>Freshwater drum</b>	6.75	6.75
	(4.68)	(4.68)

**Sampling stratum:**


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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 2001. 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>Shortnose gar</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>American eel</b>	0.00		0.03
	(0.00)		(0.03)
<b>Common carp</b>	2.29	2.31	1.85
	(0.62)	(0.66)	(0.81)
<b>Bighead carp</b>	0.04	0.04	
	(0.03)	(0.03)	
<b>Smallmouth buffalo</b>	0.38	0.40	0.11
	(0.13)	(0.14)	(0.08)
<b>Black bullhead</b>	0.00		0.03
	(0.00)		(0.03)
<b>Channel catfish</b>	4.61	4.51	6.23

	(1.24)	(1.30)	(3.25)
<b>Flathead catfish</b>	0.06	0.06	
	(0.03)	(0.03)	
<b>White bass</b>	0.02	0.02	0.03
	(0.02)	(0.02)	(0.03)
<b>Yellow bass</b>	0.00		0.03
	(0.00)		(0.03)
<b>Bluegill</b>	0.04	0.04	
	(0.04)	(0.04)	
<b>Black crappie</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Freshwater drum</b>	0.14	0.14	0.14
	(0.14)	(0.14)	(0.07)

**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/2001/lagrange/tb3\\_ha0008.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/lagrange/tb3_ha0008.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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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 2001. 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>Shortnose gar</b>	0.00		0.03
	(0.00)		(0.03)
<b>Gizzard shad</b>	0.09	0.08	0.11
	(0.05)	(0.05)	(0.09)
<b>Common carp</b>	4.28	4.23	5.16
	(1.07)	(1.13)	(1.47)
<b>Carp x goldfish hybrid</b>	0.02	0.02	0.06
	(0.02)	(0.02)	(0.04)
<b>Silver carp</b>	0.00		0.06
	(0.00)		(0.04)
<b>Bighead carp</b>	1.85	1.78	2.86
	(0.76)	(0.80)	(1.49)
<b>River carpsucker</b>	0.08	0.08	0.08

	(0.08)	(0.08)	(0.06)
<b>Highfin carpsucker</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Smallmouth buffalo</b>	10.14	10.43	5.79
	(2.60)	(2.77)	(1.41)
<b>Bigmouth buffalo</b>	0.04	0.04	
	(0.03)	(0.03)	
<b>Black buffalo</b>	0.07	0.06	0.20
	(0.03)	(0.03)	(0.14)
<b>Silver redhorse</b>	0.00		0.06
	(0.00)		(0.06)
<b>Shorthead redhorse</b>	0.04	0.04	0.06
	(0.03)	(0.03)	(0.06)
<b>Brown bullhead</b>	0.02	0.02	
	(0.02)	(0.02)	
<b>Channel catfish</b>	0.72	0.72	0.81
	(0.25)	(0.27)	(0.44)
<b>Flathead catfish</b>	0.14	0.15	
	(0.05)	(0.06)	
<b>White bass</b>	0.04	0.04	0.03
	(0.04)	(0.04)	(0.03)
<b>Black crappie</b>	0.04	0.04	0.03
	(0.04)	(0.04)	(0.03)

<b>Freshwater drum</b>	0.44	0.46	0.17
	(0.23)	(0.25)	(0.10)

**Sampling strata:**

**MCBU - Main channel border, unstructured**

**SCB - Side channel border**

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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 2001. 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>Shortnose gar</b>	0.05		0.06	0.17
	(0.04)		(0.06)	(0.10)
<b>Skipjack herring</b>	0.46	0.41	0.50	0.04
	(0.13)	(0.24)	(0.17)	(0.04)
<b>Gizzard shad</b>	69.61	2.59	96.75	33.71
	(38.92)	(1.14)	(55.96)	(11.73)
<b>Threadfin shad</b>	7.45	0.50	10.28	3.63
	(3.93)	(0.17)	(5.66)	(1.42)
<b>Grass carp</b>	0.03	0.05	0.03	
	(0.02)	(0.05)	(0.03)	
<b>Red shiner</b>	0.15	0.41	0.06	0.17
	(0.07)	(0.20)	(0.06)	(0.10)
<b>Common carp</b>	0.04	0.14		

	(0.02)	(0.07)		
<b>Carp x goldfish hybrid</b>	0.01	0.05		
	(0.01)	(0.05)		
<b>Bighead carp</b>	0.05	0.05	0.06	
	(0.04)	(0.05)	(0.06)	
<b>Silver chub</b>	0.02		0.03	
	(0.02)		(0.03)	
<b>Golden shiner</b>	0.04		0.06	
	(0.03)		(0.04)	
<b>Emerald shiner</b>	53.98	28.27	64.25	42.50
	(22.77)	(6.72)	(32.62)	(21.45)
<b>River shiner</b>	0.22	0.45	0.14	0.04
	(0.12)	(0.41)	(0.07)	(0.04)
<b>Silverband shiner</b>	0.17		0.25	
	(0.14)		(0.20)	
<b>Sand shiner</b>	0.17		0.25	
	(0.11)		(0.16)	
<b>Bullhead minnow</b>	2.72	8.64	0.67	0.63
	(1.28)	(4.93)	(0.29)	(0.17)
<b>River carpsucker</b>	0.12	0.45		
	(0.07)	(0.26)		
<b>Smallmouth buffalo</b>	0.57	1.36	0.31	0.17
	(0.18)	(0.62)	(0.12)	(0.10)

<b>Bigmouth buffalo</b>	0.01	0.05		
	(0.01)	(0.05)		
<b>Unidentified buffalo</b>	0.46	1.14	0.17	1.08
	(0.13)	(0.47)	(0.07)	(0.33)
<b>Black bullhead</b>	0.07			1.63
	(0.07)			(1.58)
<b>Channel catfish</b>	0.08	0.05	0.08	0.25
	(0.04)	(0.05)	(0.05)	(0.14)
<b>Western mosquitofish</b>	0.86	0.32	0.78	5.17
	(0.31)	(0.14)	(0.41)	(2.55)
<b>Brook silverside</b>	0.40	1.50		0.33
	(0.18)	(0.69)		(0.19)
<b>White bass</b>	1.14	0.59	1.28	2.17
	(0.49)	(0.45)	(0.68)	(0.95)
<b>Yellow bass</b>	0.05	0.18		
	(0.04)	(0.14)		
<b>Green sunfish</b>	0.01	0.05		
	(0.01)	(0.05)		
<b>Bluegill</b>	1.67	5.45	0.28	1.54
	(0.55)	(2.11)	(0.13)	(0.61)
<b>Smallmouth bass</b>	0.03	0.05	0.03	
	(0.02)	(0.05)	(0.03)	
<b>Largemouth bass</b>	0.69	2.45	0.06	0.50

	(0.22)	(0.86)	(0.04)	(0.18)
<b>White crappie</b>	0.26	0.82	0.06	0.25
	(0.18)	(0.68)	(0.04)	(0.15)
<b>Black crappie</b>	0.32	1.09	0.06	0.04
	(0.16)	(0.63)	(0.04)	(0.04)
<b>Logperch</b>	0.06	0.14	0.03	0.08
	(0.03)	(0.10)	(0.03)	(0.06)
<b>Slenderhead darter</b>	0.01	0.05		
	(0.01)	(0.05)		
<b>Sauger</b>	0.17	0.50	0.06	
	(0.11)	(0.41)	(0.04)	
<b>Freshwater drum</b>	1.03	0.36	1.06	4.46
	(0.31)	(0.15)	(0.43)	(1.92)
<b>Unidentified</b>	0.00			0.04
	(0.00)			(0.04)

**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/2001/lagrange/tb3\\_ha0010.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/2001/lagrange/tb3_ha0010.html)[USGS Privacy Statement](#) || [Disclaimer](#) || [Accessibility](#) || [FOIA](#)[Center home page](#) ►


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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 2001. 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>	0.20	0.17
	(0.20)	(0.17)
<b>Shortnose gar</b>	1.20	9.50
	(0.49)	(4.97)
<b>Bowfin</b>	0.00	0.17
	(0.00)	(0.17)
<b>Goldeye</b>	0.00	0.25
	(0.00)	(0.18)
<b>Skipjack herring</b>	1.40	1.67
	(0.51)	(0.58)
<b>Gizzard shad</b>	51.20	152.00
	(15.78)	(46.40)
<b>Threadfin shad</b>	0.00	7.75
	(0.00)	(3.74)

<b>Goldfish</b>	0.00	0.58
	(0.00)	(0.23)
<b>Grass carp</b>	0.40	0.50
	(0.24)	(0.19)
<b>Red shiner</b>	1.40	0.83
	(1.17)	(0.58)
<b>Common carp</b>	8.20	9.33
	(1.66)	(1.76)
<b>Carp x goldfish hybrid</b>	0.40	0.00
	(0.24)	(0.00)
<b>Silver carp</b>	1.60	0.17
	(0.81)	(0.17)
<b>Bighead carp</b>	1.00	0.00
	(0.55)	(0.00)
<b>Silver chub</b>	0.00	0.08
	(0.00)	(0.08)
<b>Emerald shiner</b>	1.40	7.83
	(0.98)	(5.85)
<b>River shiner</b>	0.00	0.42
	(0.00)	(0.42)
<b>Bullhead minnow</b>	0.20	0.17
	(0.20)	(0.11)
<b>River carpsucker</b>	0.00	0.42

	(0.00)	(0.15)
<b>Highfin carpsucker</b>	0.20	0.00
	(0.20)	(0.00)
<b>Smallmouth buffalo</b>	4.40	8.17
	(1.12)	(3.36)
<b>Bigmouth buffalo</b>	4.80	0.67
	(1.59)	(0.22)
<b>Black buffalo</b>	0.40	0.17
	(0.24)	(0.11)
<b>Unidentified buffalo</b>	0.00	0.92
	(0.00)	(0.92)
<b>Shorthead redhorse</b>	0.00	0.25
	(0.00)	(0.13)
<b>Black bullhead</b>	0.00	0.08
	(0.00)	(0.08)
<b>Channel catfish</b>	0.20	2.00
	(0.20)	(1.09)
<b>Flathead catfish</b>	1.00	0.42
	(0.55)	(0.23)
<b>Blackstripe topminnow</b>	0.20	0.67
	(0.20)	(0.67)
<b>White perch</b>	0.00	0.17
	(0.00)	(0.11)

<b>White bass</b>	2.40	30.50
	(1.69)	(7.45)
<b>Yellow bass</b>	0.00	1.00
	(0.00)	(0.51)
<b>Striped bass</b>	0.00	0.08
	(0.00)	(0.08)
<b>Striped x white bass</b>	0.00	0.17
	(0.00)	(0.17)
<b>Green sunfish</b>	0.00	0.25
	(0.00)	(0.18)
<b>Warmouth</b>	0.00	0.17
	(0.00)	(0.17)
<b>Bluegill</b>	1.80	6.75
	(0.97)	(1.77)
<b>Smallmouth bass</b>	0.00	0.17
	(0.00)	(0.11)
<b>Largemouth bass</b>	1.20	5.83
	(0.49)	(2.07)
<b>White crappie</b>	0.40	3.92
	(0.24)	(1.87)
<b>Black crappie</b>	0.40	1.08
	(0.24)	(0.42)
<b>Logperch</b>	0.00	0.08

	(0.00)	(0.08)
<b>Sauger</b>	0.00	0.83
	(0.00)	(0.37)
<b>Freshwater drum</b>	1.40	0.92
	(1.17)	(0.34)

**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 2001. 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	0.25
	(0.00)	(0.13)
<b>Shortnose gar</b>	1.00	10.67
	(0.26)	(5.12)
<b>Bowfin</b>	0.00	0.08
	(0.00)	(0.08)
<b>Goldeye</b>	0.33	0.17
	(0.33)	(0.17)
<b>Skipjack herring</b>	0.83	0.33
	(0.40)	(0.14)
<b>Gizzard shad</b>	189.17	194.83
	(144.53)	(71.47)
<b>Threadfin shad</b>	0.33	3.17
	(0.33)	(2.10)

<b>Goldfish</b>	0.00	0.25
	(0.00)	(0.18)
<b>Grass carp</b>	0.67	0.83
	(0.21)	(0.34)
<b>Red shiner</b>	0.67	0.33
	(0.33)	(0.26)
<b>Common carp</b>	11.50	8.08
	(2.67)	(1.60)
<b>Carp x goldfish hybrid</b>	0.33	0.17
	(0.33)	(0.11)
<b>Silver carp</b>	0.83	0.25
	(0.31)	(0.13)
<b>Bighead carp</b>	0.67	0.08
	(0.42)	(0.08)
<b>Emerald shiner</b>	6.83	211.67
	(4.57)	(209.04)
<b>Silverband shiner</b>	0.17	0.17
	(0.17)	(0.11)
<b>Bullhead minnow</b>	0.00	0.83
	(0.00)	(0.83)
<b>River carpsucker</b>	0.17	1.00
	(0.17)	(0.58)
<b>Highfin carpsucker</b>	0.00	0.08

	(0.00)	(0.08)
<b>Smallmouth buffalo</b>	4.00	7.75
	(0.93)	(3.00)
<b>Bigmouth buffalo</b>	6.00	1.17
	(1.03)	(0.75)
<b>Black buffalo</b>	0.50	0.33
	(0.22)	(0.26)
<b>Unidentified buffalo</b>	0.00	0.25
	(0.00)	(0.25)
<b>Golden redbreast</b>	0.00	0.08
	(0.00)	(0.08)
<b>Shorthead redbreast</b>	0.00	0.08
	(0.00)	(0.08)
<b>Channel catfish</b>	0.50	1.67
	(0.22)	(1.32)
<b>Flathead catfish</b>	1.00	0.67
	(0.26)	(0.28)
<b>Western mosquitofish</b>	0.50	0.00
	(0.50)	(0.00)
<b>White perch</b>	0.00	1.25
	(0.00)	(0.60)
<b>White bass</b>	4.50	28.33
	(1.84)	(10.63)

<b>Yellow bass</b>	0.00	2.50
	(0.00)	(0.83)
<b>Striped bass</b>	0.00	0.25
	(0.00)	(0.13)
<b>Striped x white bass</b>	0.00	0.08
	(0.00)	(0.08)
<b>Green sunfish</b>	0.00	0.25
	(0.00)	(0.18)
<b>Warmouth</b>	0.17	0.00
	(0.17)	(0.00)
<b>Bluegill</b>	3.17	6.92
	(1.87)	(2.33)
<b>Green x bluegill sunfish</b>	0.00	0.08
	(0.00)	(0.08)
<b>Smallmouth bass</b>	0.00	0.25
	(0.00)	(0.13)
<b>Largemouth bass</b>	0.50	5.83
	(0.50)	(1.97)
<b>White crappie</b>	0.50	2.75
	(0.34)	(1.52)
<b>Black crappie</b>	0.83	0.17
	(0.65)	(0.11)
<b>Logperch</b>	0.00	0.17

	(0.00)	(0.17)
<b>Sauger</b>	0.17	1.42
	(0.17)	(0.56)
<b>Walleye</b>	0.00	0.42
	(0.00)	(0.29)
<b>Freshwater drum</b>	4.50	4.17
	(0.72)	(1.37)

**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 2001. 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
	(0.11)
Shortnose gar	18.68
	(6.59)
Bowfin	0.17
	(0.12)
Goldeye	0.08
	(0.08)
Skipjack herring	0.26
	(0.18)
Gizzard shad	77.25
	(63.60)
Threadfin shad	1.34
	(1.04)

<b>Goldfish</b>	0.16
	(0.16)
<b>Grass carp</b>	0.09
	(0.09)
<b>Common carp</b>	9.24
	(3.61)
<b>Carp x goldfish hybrid</b>	0.25
	(0.18)
<b>Bighead carp</b>	1.05
	(0.69)
<b>River carpsucker</b>	0.56
	(0.28)
<b>Smallmouth buffalo</b>	2.60
	(0.86)
<b>Bigmouth buffalo</b>	1.31
	(0.98)
<b>Black buffalo</b>	0.08
	(0.08)
<b>Silver redhorse</b>	0.08
	(0.08)
<b>Golden redhorse</b>	0.17
	(0.12)
<b>Shorthead redhorse</b>	0.35

	(0.20)
<b>Black bullhead</b>	0.68
	(0.43)
<b>Yellow bullhead</b>	0.26
	(0.18)
<b>Channel catfish</b>	0.59
	(0.36)
<b>Flathead catfish</b>	0.35
	(0.20)
<b>Northern pike</b>	0.08
	(0.08)
<b>White perch</b>	0.50
	(0.29)
<b>White bass</b>	18.32
	(5.24)
<b>Yellow bass</b>	2.70
	(0.92)
<b>Green sunfish</b>	0.26
	(0.13)
<b>Orangespotted sunfish</b>	0.42
	(0.26)
<b>Bluegill</b>	9.61
	(3.32)

<b>Longear sunfish</b>	0.08
	(0.08)
<b>Green x bluegill sunfish</b>	0.09
	(0.09)
<b>Largemouth bass</b>	0.17
	(0.11)
<b>White crappie</b>	8.26
	(3.38)
<b>Black crappie</b>	8.57
	(3.41)
<b>Sauger</b>	0.67
	(0.28)
<b>Walleye</b>	0.17
	(0.17)
<b>Freshwater drum</b>	12.45
	(6.43)

**Sampling stratum:  
TWZ - Tailwater**

*Last updated on August 26, 2004*

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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 2001. 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>Shortnose gar</b>	0.17	2.09
	(0.17)	(1.02)
<b>Skipjack herring</b>	1.72	0.36
	(1.52)	(0.15)
<b>Gizzard shad</b>	77.46	51.68
	(34.13)	(33.11)
<b>Threadfin shad</b>	348.43	6616.00
	(334.20)	(6610.04)
<b>Central stoneroller</b>	0.17	0.00
	(0.17)	(0.00)
<b>Grass carp</b>	0.00	0.17
	(0.00)	(0.11)
<b>Red shiner</b>	7.50	0.82
	(6.70)	(0.58)

<b>Common carp</b>	0.86	1.37
	(0.86)	(0.74)
<b>Bighead carp</b>	0.52	0.00
	(0.52)	(0.00)
<b>Golden shiner</b>	0.86	0.08
	(0.56)	(0.08)
<b>Emerald shiner</b>	89.33	34.77
	(63.81)	(29.35)
<b>River shiner</b>	0.00	0.16
	(0.00)	(0.16)
<b>Spottail shiner</b>	0.00	0.18
	(0.00)	(0.12)
<b>Silverband shiner</b>	0.86	0.97
	(0.86)	(0.97)
<b>Sand shiner</b>	0.00	0.33
	(0.00)	(0.22)
<b>Bluntnose minnow</b>	0.87	0.51
	(0.68)	(0.51)
<b>Fathead minnow</b>	0.00	0.08
	(0.00)	(0.08)
<b>Bullhead minnow</b>	1.18	0.69
	(0.79)	(0.44)
<b>Creek chub</b>	0.35	0.33

	(0.22)	(0.33)
<b>Smallmouth buffalo</b>	0.35	0.82
	(0.35)	(0.47)
<b>Bigmouth buffalo</b>	0.00	0.41
	(0.00)	(0.33)
<b>Unidentified buffalo</b>	1.21	1.70
	(0.87)	(1.43)
<b>Black bullhead</b>	0.34	0.42
	(0.34)	(0.34)
<b>Channel catfish</b>	0.68	0.53
	(0.34)	(0.25)
<b>Flathead catfish</b>	0.00	0.10
	(0.00)	(0.10)
<b>Northern pike</b>	0.00	0.17
	(0.00)	(0.11)
<b>Blackstripe topminnow</b>	0.17	0.00
	(0.17)	(0.00)
<b>Western mosquitofish</b>	0.85	0.74
	(0.85)	(0.74)
<b>Brook silverside</b>	0.35	0.00
	(0.35)	(0.00)
<b>White perch</b>	0.00	0.09
	(0.00)	(0.09)

<b>White bass</b>	21.00	19.14
	(11.60)	(11.16)
<b>Yellow bass</b>	0.00	0.50
	(0.00)	(0.34)
<b>Green sunfish</b>	0.16	0.35
	(0.16)	(0.26)
<b>Warmouth</b>	0.00	0.18
	(0.00)	(0.12)
<b>Orangespotted sunfish</b>	0.00	1.16
	(0.00)	(0.68)
<b>Bluegill</b>	5.63	3.93
	(4.05)	(1.80)
<b>Green x bluegill sunfish</b>	0.00	0.09
	(0.00)	(0.09)
<b>Largemouth bass</b>	2.56	0.38
	(1.09)	(0.30)
<b>White crappie</b>	3.44	2.65
	(1.84)	(1.60)
<b>Black crappie</b>	1.22	2.53
	(1.22)	(1.70)
<b>Logperch</b>	0.35	1.15
	(0.35)	(0.56)
<b>Slenderhead darter</b>	0.00	0.09

	(0.00)	(0.09)
<b>Sauger</b>	0.00	6.25
	(0.00)	(5.49)
<b>Freshwater drum</b>	60.52	6.90
	(53.10)	(2.67)

**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 2001. 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>Common carp</b>	0.17	5.73
	(0.17)	(2.70)
<b>Smallmouth buffalo</b>	0.00	0.51
	(0.00)	(0.46)
<b>Black buffalo</b>	0.00	0.04
	(0.00)	(0.04)
<b>Channel catfish</b>	0.33	0.84
	(0.33)	(0.53)
<b>Flathead catfish</b>	0.00	0.04
	(0.00)	(0.04)
<b>White bass</b>	0.00	0.08
	(0.00)	(0.08)
<b>Freshwater drum</b>	0.00	0.08
	(0.00)	(0.08)

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

*Last updated on August 26, 2004*

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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 2001. 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>Common carp</b>	5.45	13.50
	(2.87)	(6.97)
<b>Bighead carp</b>	3.58	7.16
	(3.48)	(7.06)
<b>River carpsucker</b>	0.00	0.08
	(0.00)	(0.06)
<b>Smallmouth buffalo</b>	2.92	4.37
	(1.53)	(1.68)
<b>Bigmouth buffalo</b>	0.00	0.04
	(0.00)	(0.04)
<b>Black buffalo</b>	0.16	0.00
	(0.10)	(0.00)
<b>Channel catfish</b>	0.00	0.50
	(0.00)	(0.19)

<b>Flathead catfish</b>	0.00	0.51
	(0.00)	(0.20)
<b>White bass</b>	0.00	0.25
	(0.00)	(0.21)
<b>Striped bass</b>	0.00	0.04
	(0.00)	(0.04)
<b>Freshwater drum</b>	0.00	0.93
	(0.00)	(0.31)

**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 2001. 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	BWCS	SCB
<b>Shortnose gar</b>	0.00	0.08
	(0.00)	(0.08)
<b>Skipjack herring</b>	0.00	1.08
	(0.00)	(0.58)
<b>Gizzard shad</b>	0.50	14.83
	(0.50)	(4.15)
<b>Threadfin shad</b>	0.00	10.17
	(0.00)	(4.19)
<b>Red shiner</b>	0.00	0.25
	(0.00)	(0.13)
<b>Common carp</b>	0.00	0.17
	(0.00)	(0.11)
<b>Bighead carp</b>	0.00	0.08
	(0.00)	(0.08)

<b>Emerald shiner</b>	8.00	43.58
	(7.00)	(16.90)
<b>River shiner</b>	0.00	0.08
	(0.00)	(0.08)
<b>Silverband shiner</b>	0.00	0.08
	(0.00)	(0.08)
<b>Bullhead minnow</b>	4.00	0.92
	(0.00)	(0.43)
<b>Creek chub</b>	0.00	0.08
	(0.00)	(0.08)
<b>Smallmouth buffalo</b>	0.50	0.33
	(0.50)	(0.19)
<b>Unidentified buffalo</b>	0.00	1.33
	(0.00)	(0.72)
<b>Channel catfish</b>	0.00	0.08
	(0.00)	(0.08)
<b>Western mosquitofish</b>	0.00	14.33
	(0.00)	(8.65)
<b>Brook silverside</b>	1.50	0.00
	(1.50)	(0.00)
<b>White bass</b>	0.00	4.17
	(0.00)	(2.89)
<b>Yellow bass</b>	0.00	0.08

	(0.00)	(0.08)
<b>Orangespotted sunfish</b>	0.00	0.08
	(0.00)	(0.08)
<b>Bluegill</b>	4.00	3.75
	(0.00)	(1.70)
<b>Largemouth bass</b>	1.50	0.67
	(0.50)	(0.36)
<b>White crappie</b>	0.50	0.50
	(0.50)	(0.34)
<b>Black crappie</b>	2.50	0.17
	(1.50)	(0.11)
<b>Logperch</b>	0.00	0.08
	(0.00)	(0.08)
<b>Freshwater drum</b>	0.00	8.58
	(0.00)	(6.86)

**Sampling stratum:**  
**BWCS - Backwater, contiguous, shoreline**  
**SCB - Side channel border**

*Last updated on August 26, 2004*

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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 2001. 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>Common carp</b>	0.17
	(0.10)
<b>Shorthead redhorse</b>	0.04
	(0.04)
<b>Channel catfish</b>	27.04
	(11.32)
<b>Freckled madtom</b>	0.08
	(0.08)
<b>White bass</b>	0.13
	(0.13)
<b>Yellow bass</b>	0.04
	(0.04)
<b>Sauger</b>	0.13
	(0.13)

<b>Walleye</b>	0.08
	(0.08)
<b>Freshwater drum</b>	59.38
	(31.68)

**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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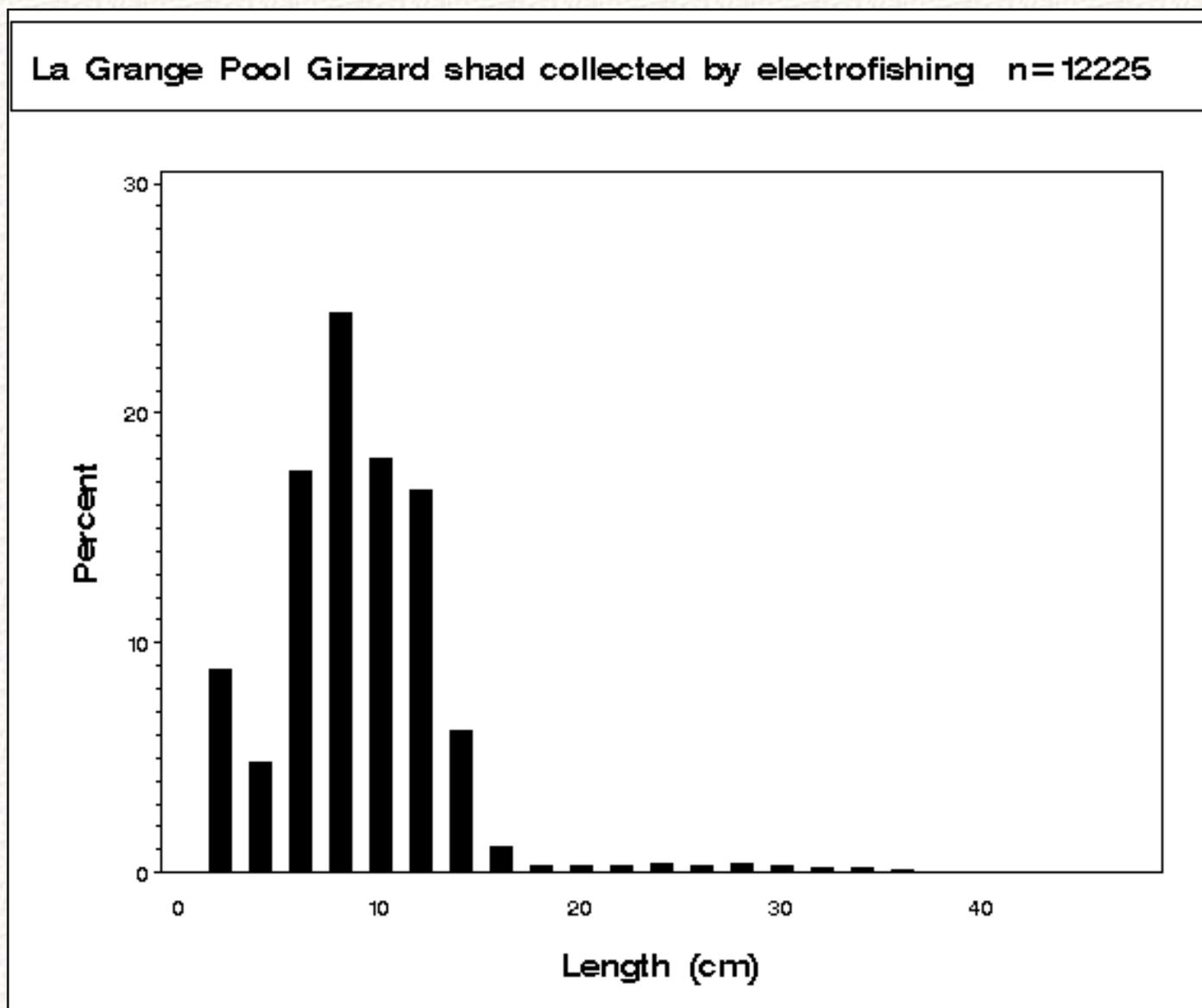
[http://www.umesc.usgs.gov/reports\\_publications/ltrmp/fish/figures\\_length.html](http://www.umesc.usgs.gov/reports_publications/ltrmp/fish/figures_length.html)

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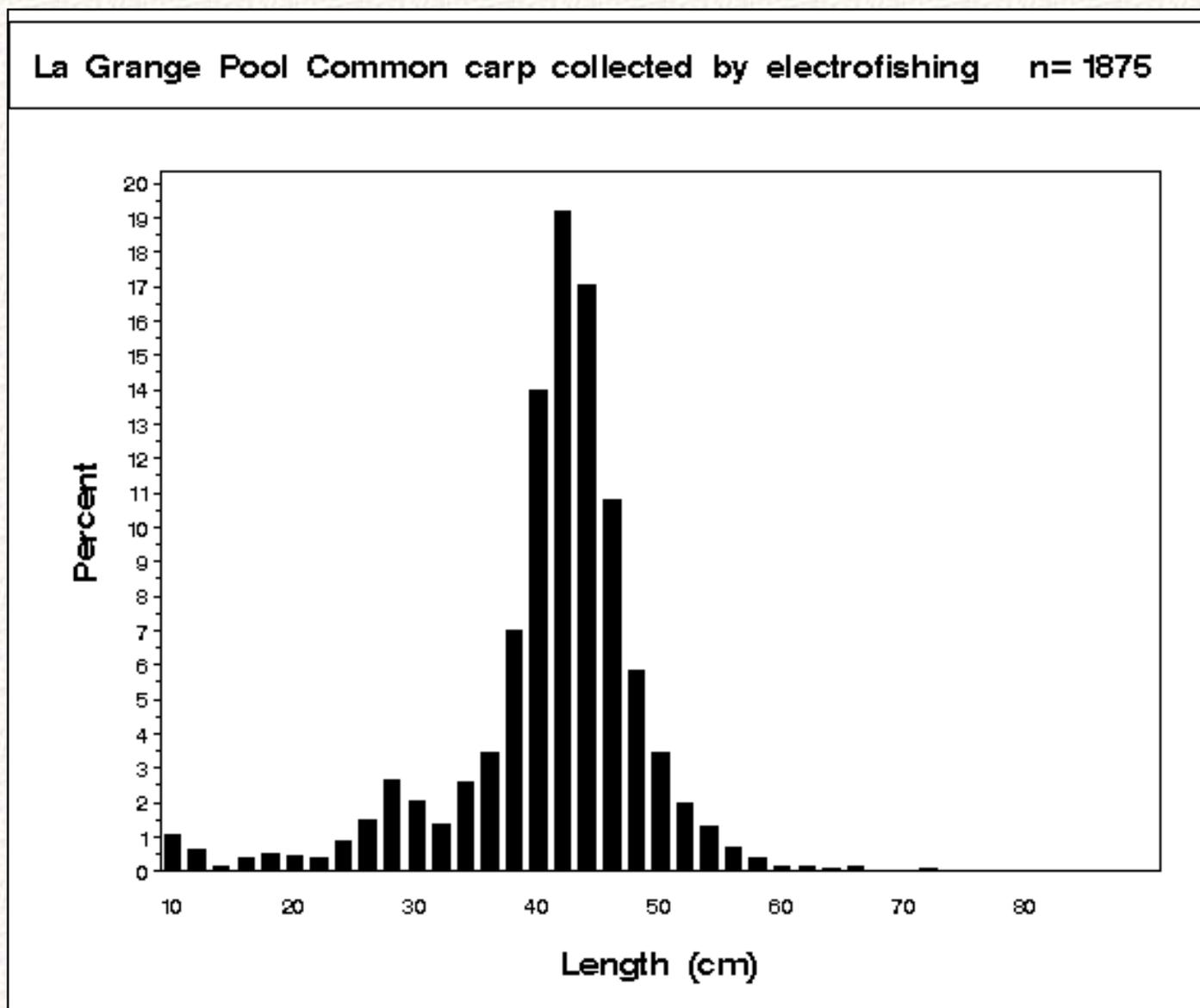
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**Figure 2.6** Length distributions (*length*) as a percentage of catch (*percent*) for gizzard shad (*Dorosoma cepedianum*) collected by electrofishing in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



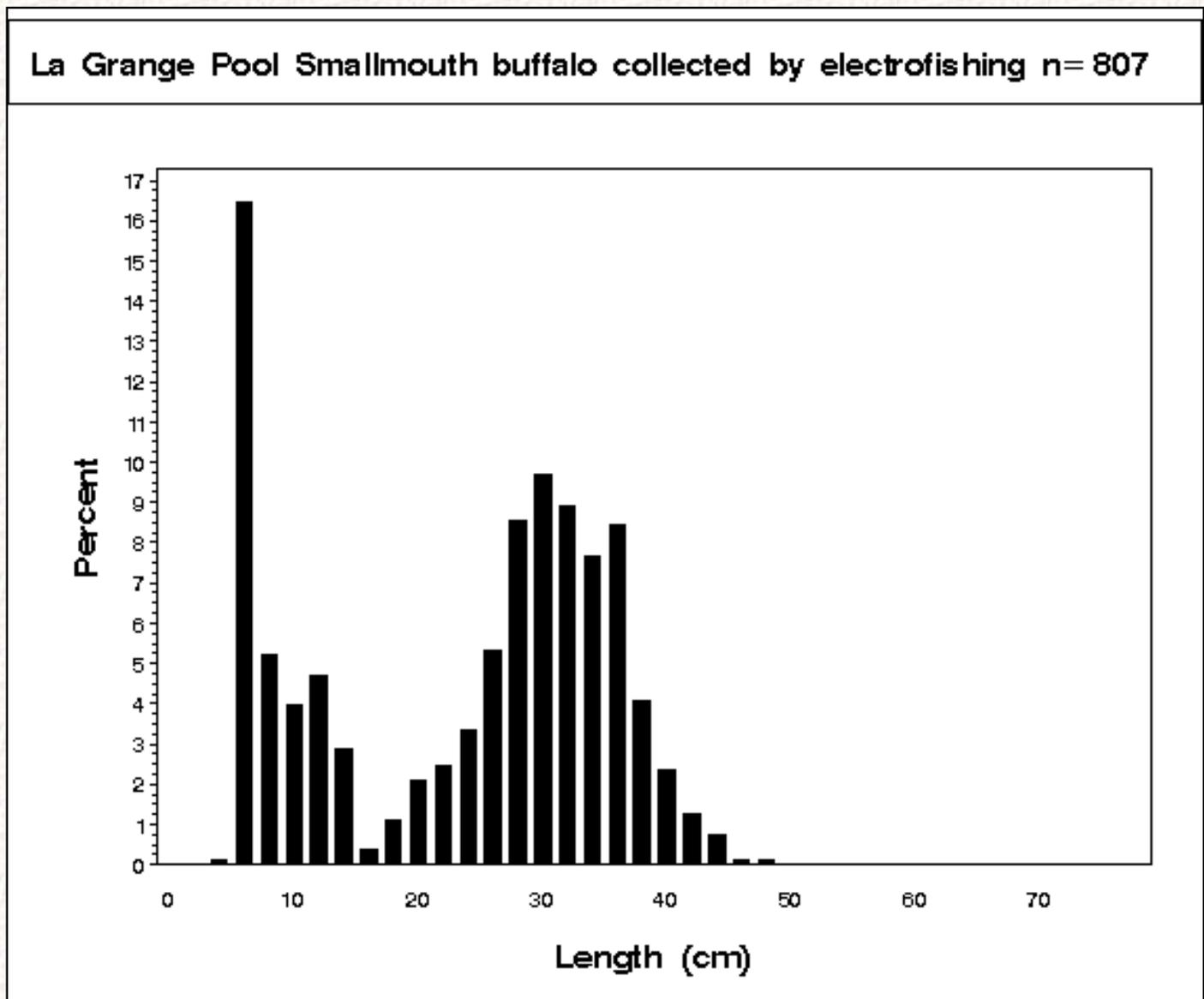

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**Figure 3.6** Length distributions (*length*) as a percentage of catch (*percent*) for common carp (*Cyprinus carpio*) collected by electrofishing in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



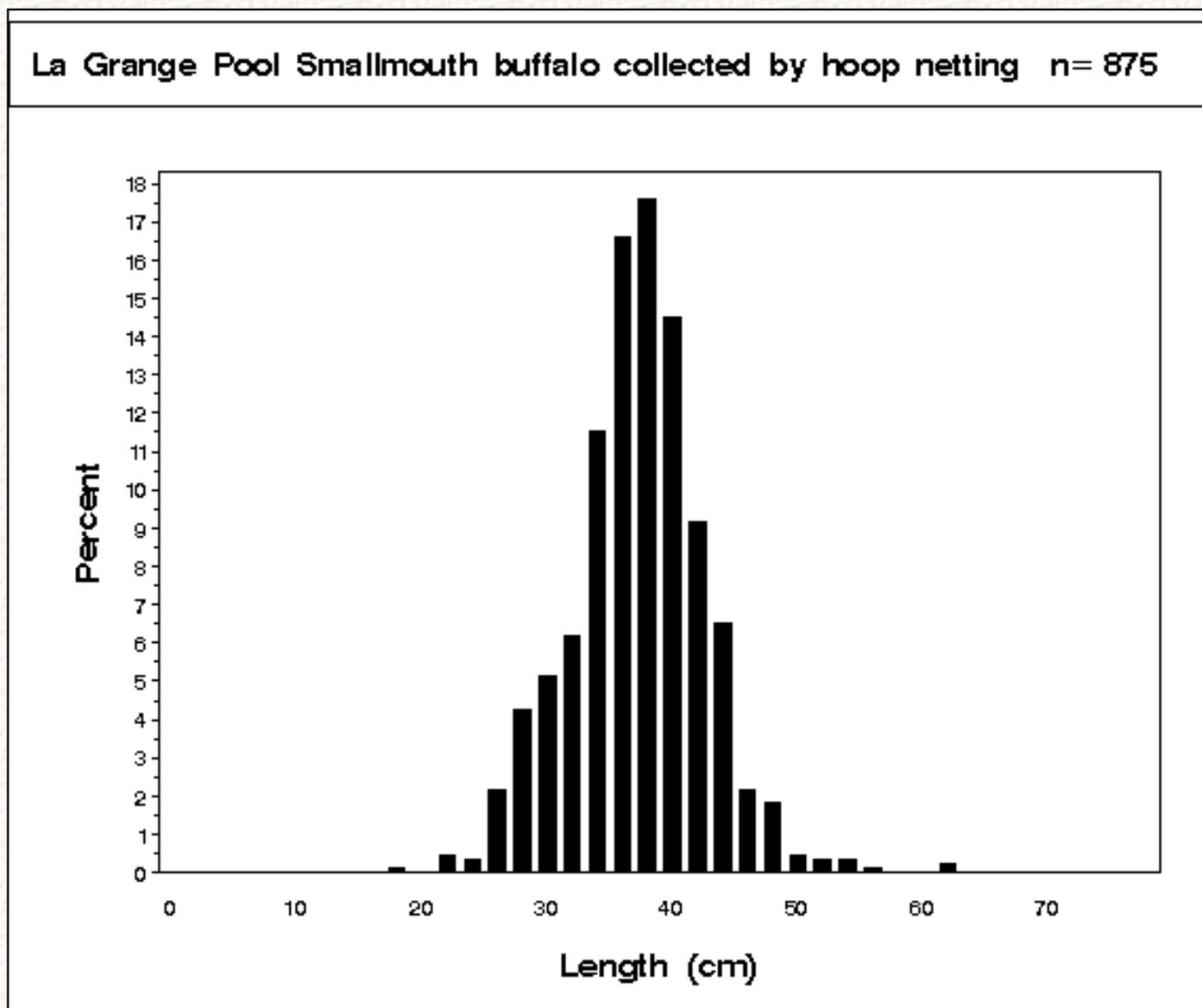

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**Figure 4.6** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



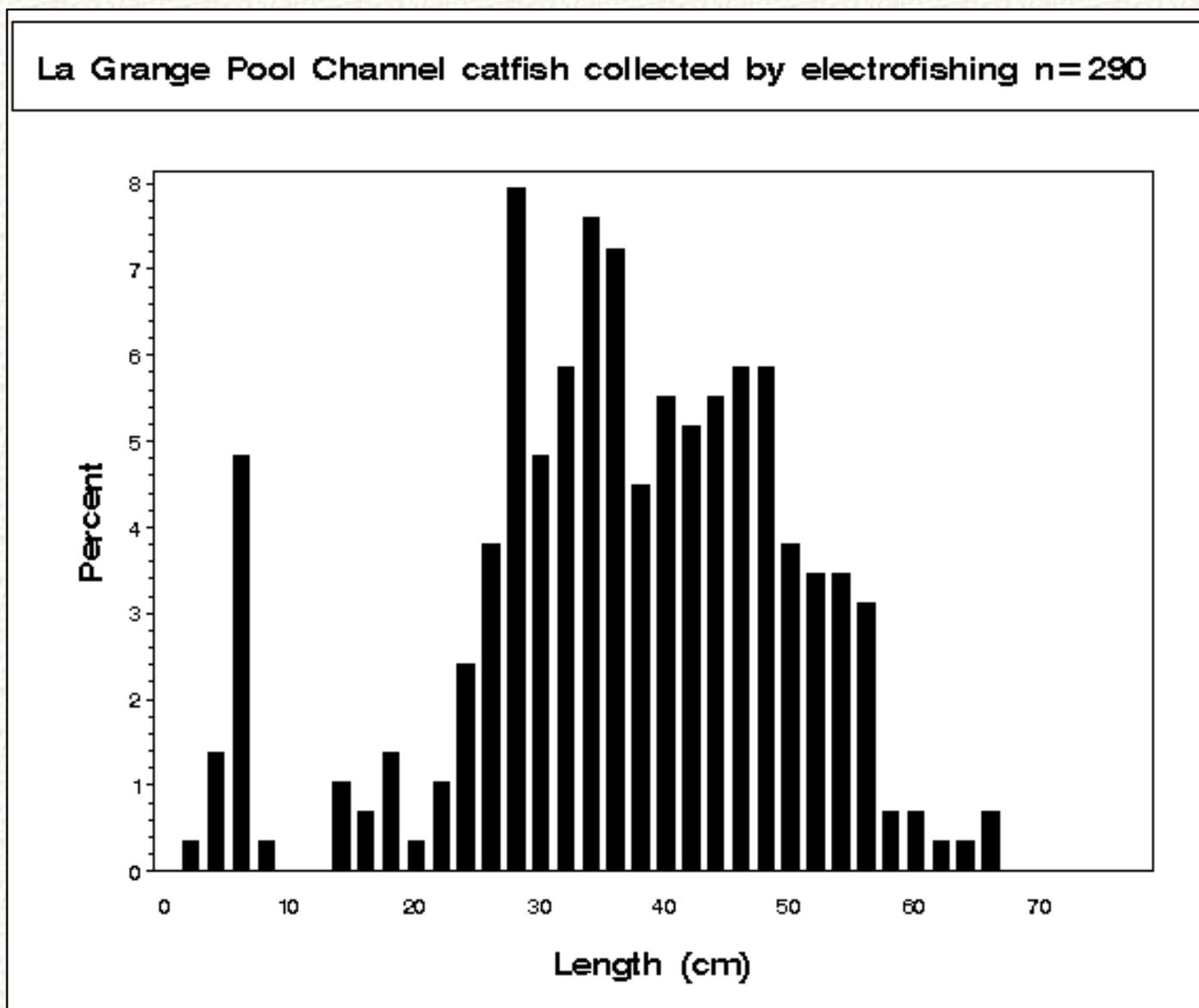
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**Figure 5.6** Length distributions (*length*) as a percentage of catch (*percent*) for smallmouth buffalo (*Ictiobus bubalus*) collected by hoop netting in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



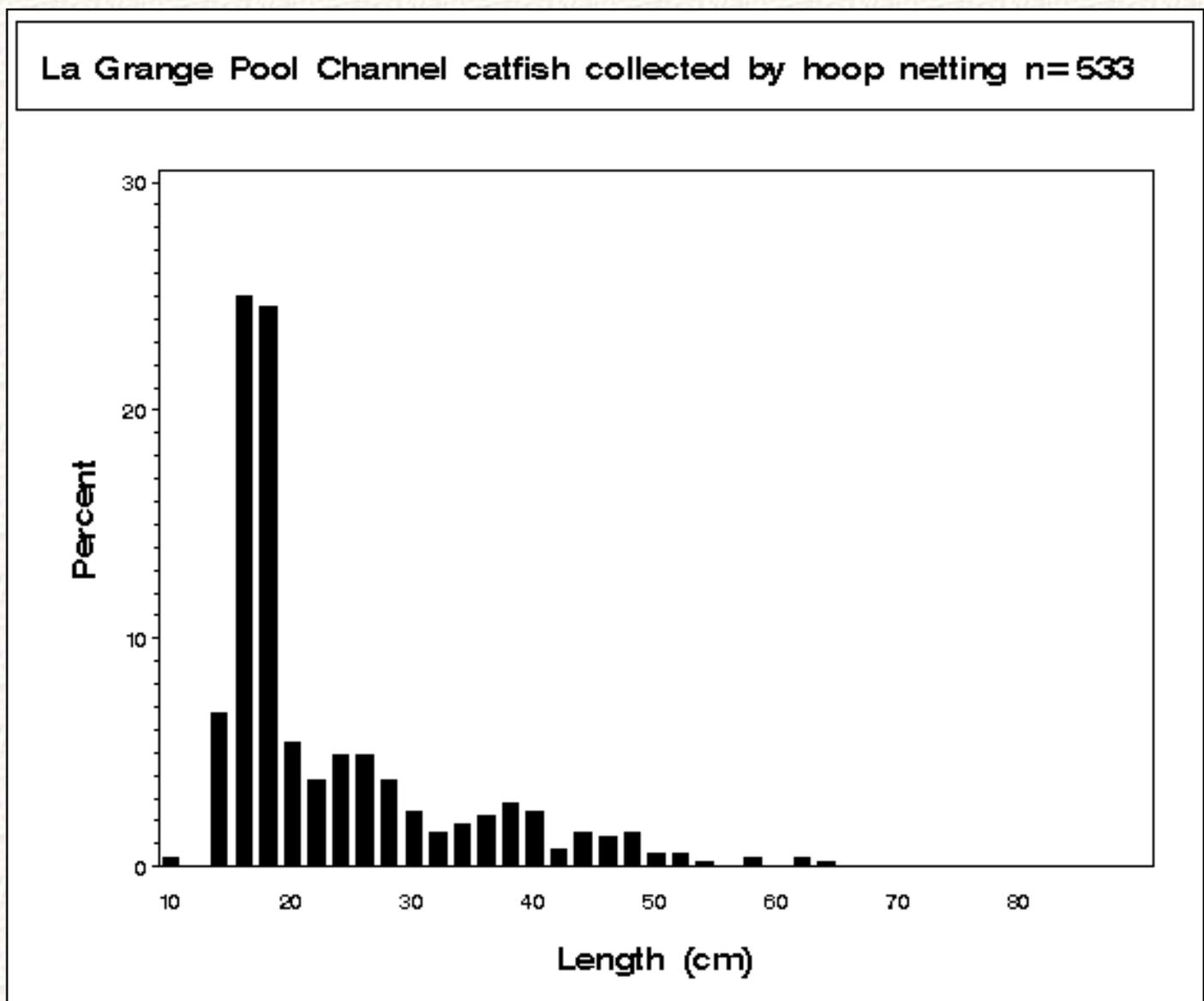

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**Figure 6.6** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by electrofishing in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



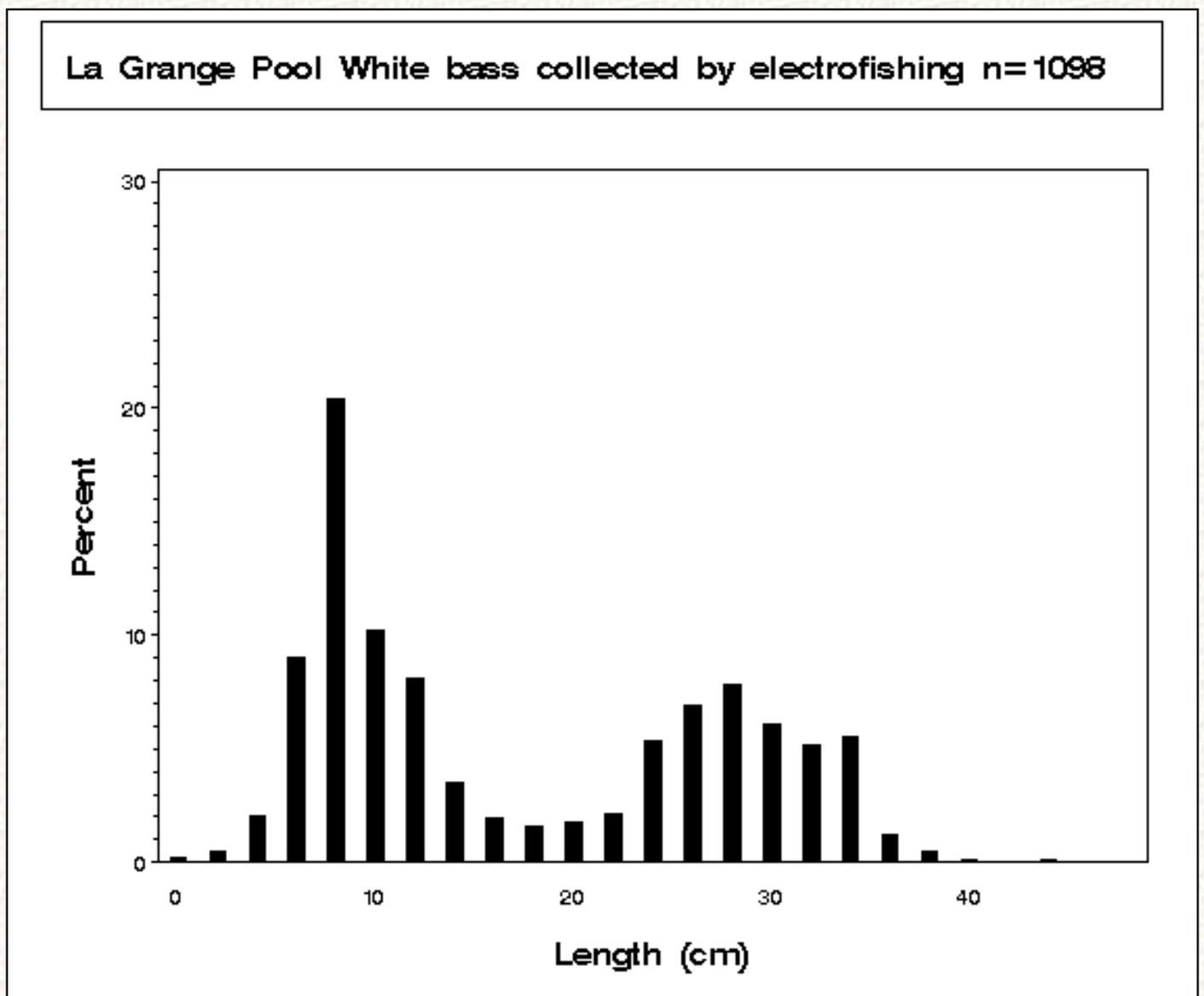
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**Figure 7.6** Length distributions (*length*) as a percentage of catch (*percent*) for channel catfish (*Ictalurus punctatus*) collected by hoop netting in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



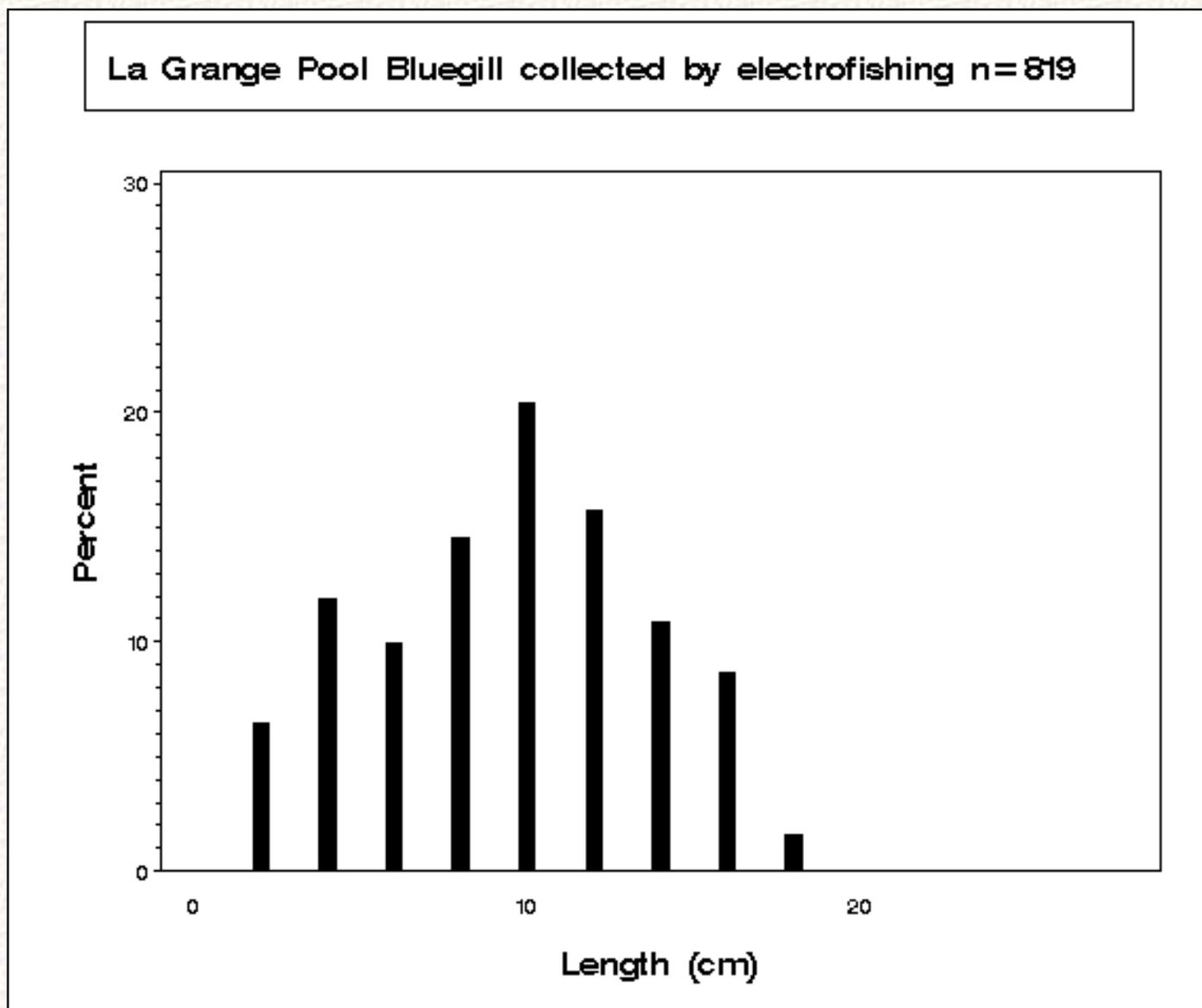
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**Figure 10.6** Length distributions (*length*) as a percentage of catch (*percent*) for white bass (*Morone chrysops*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



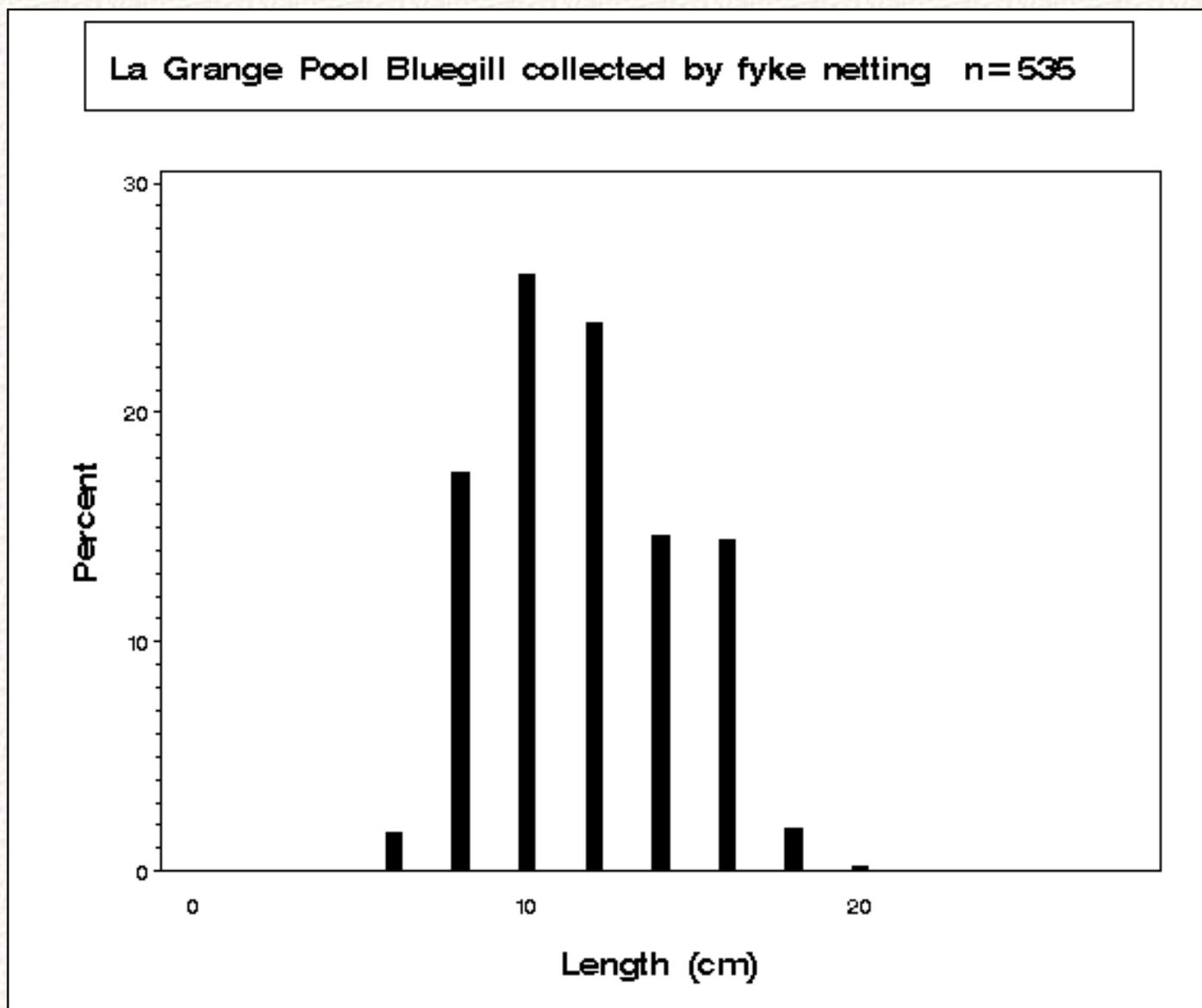
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**Figure 11.6** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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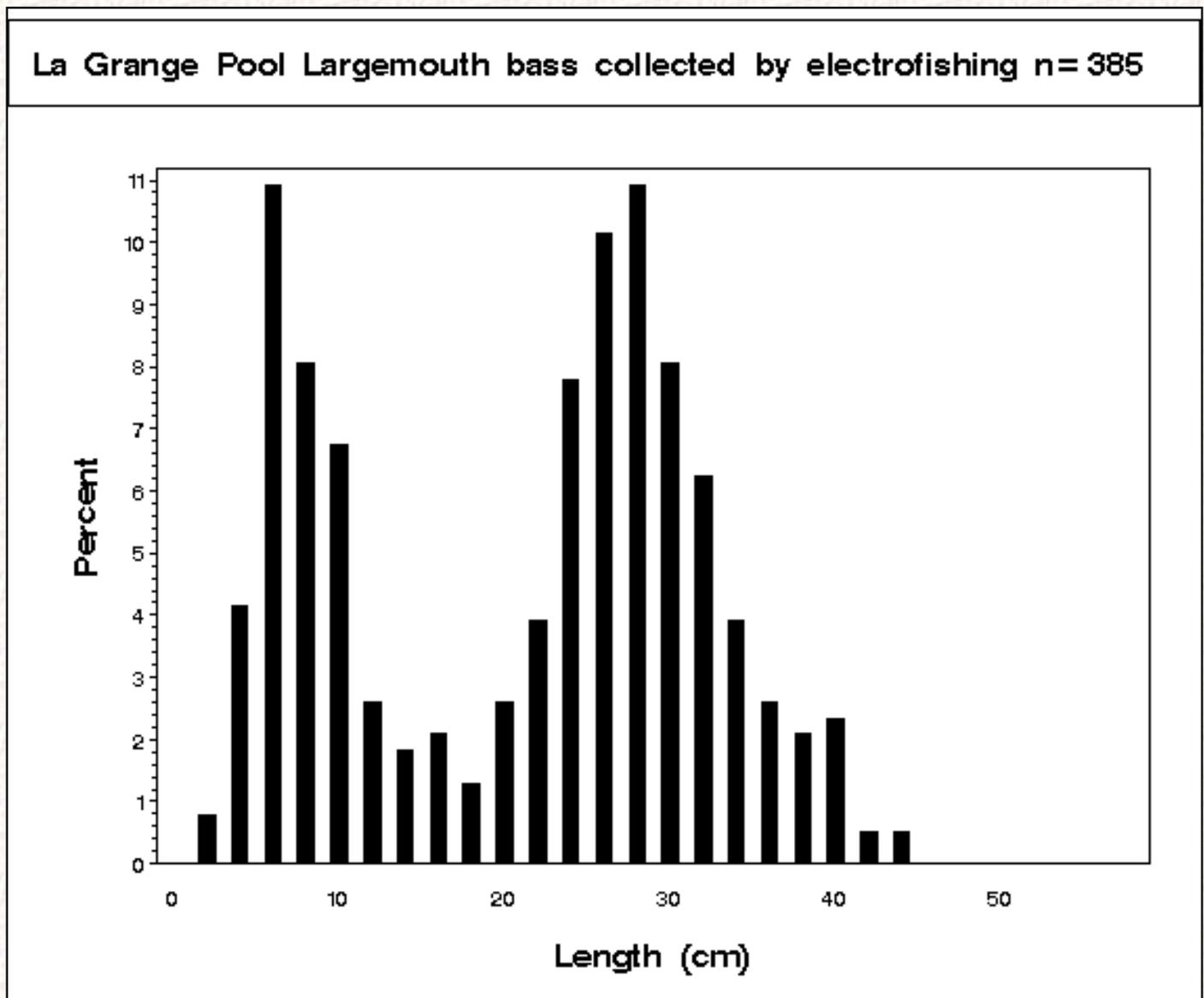
**Figure 12.6** Length distributions (*length*) as a percentage of catch (*percent*) for bluegill (*Lepomis macrochirus*) collected by fyke netting in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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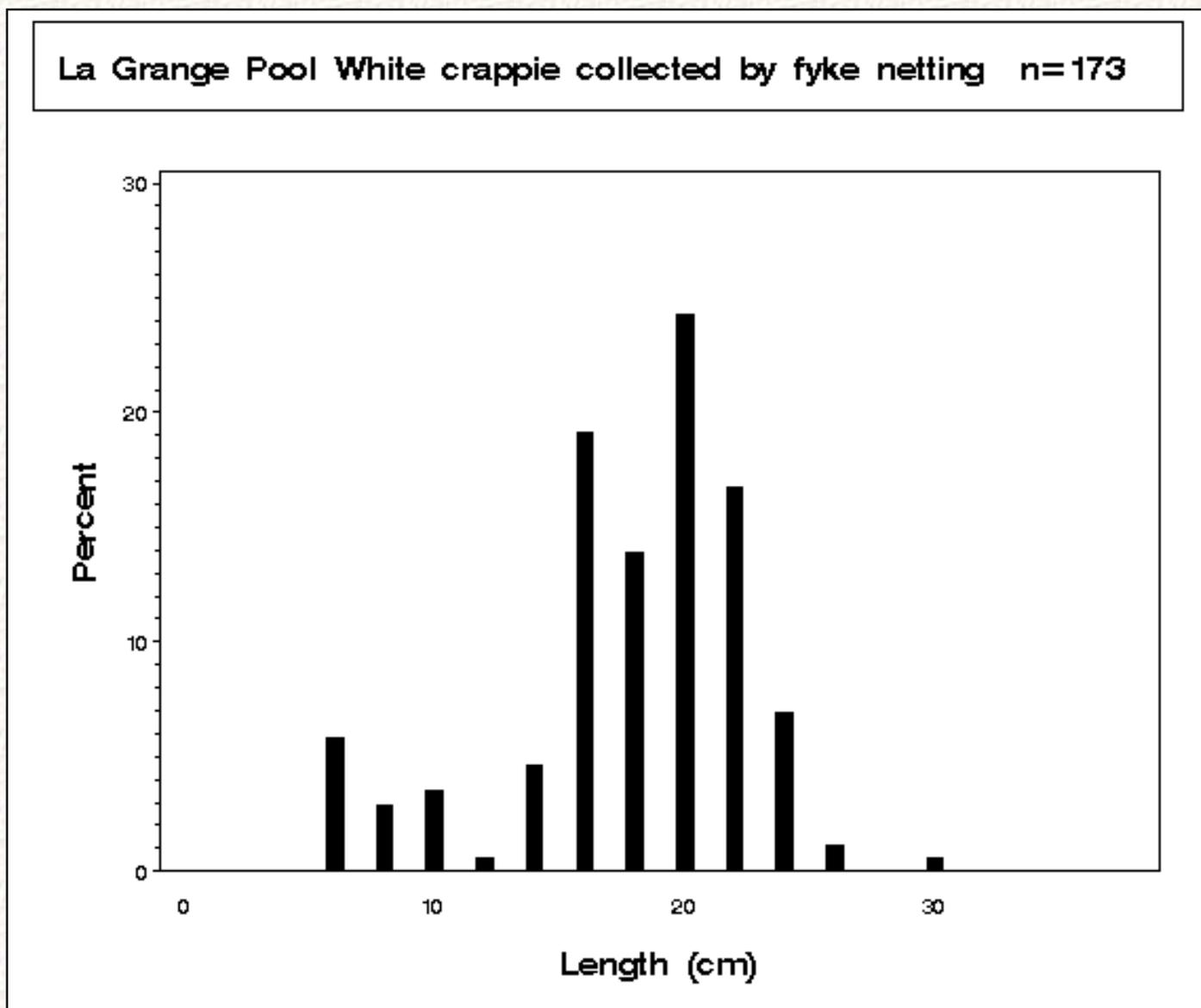
**Figure 13.6** Length distributions (*length*) as a percentage of catch (*percent*) for largemouth bass (*Micropterus salmoides*) collected by electrofishing in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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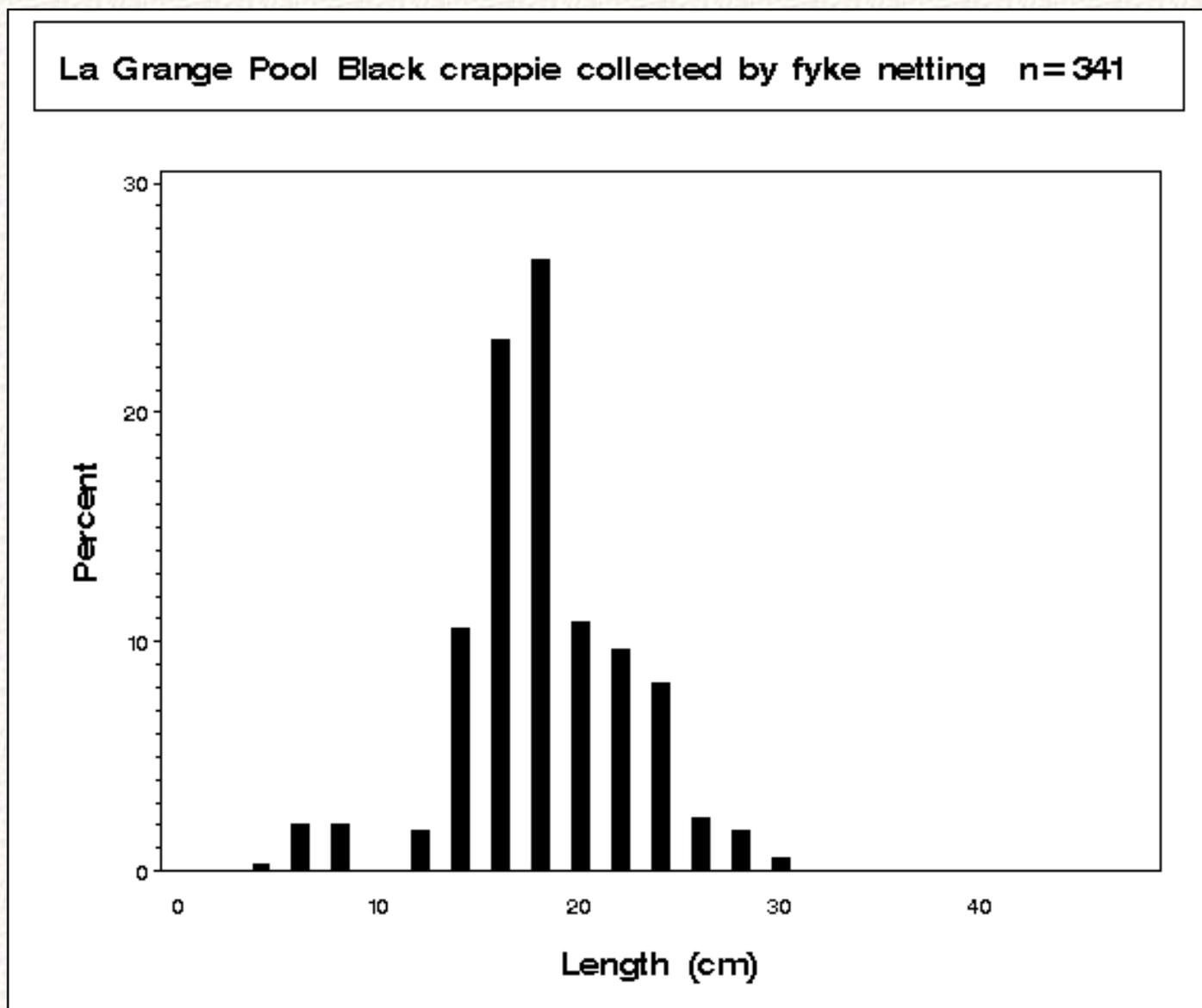
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**Figure 14.6** Length distributions (*length*) as a percentage of catch (*percent*) for white crappie (*Pomoxis annularius*) collected by fyke netting in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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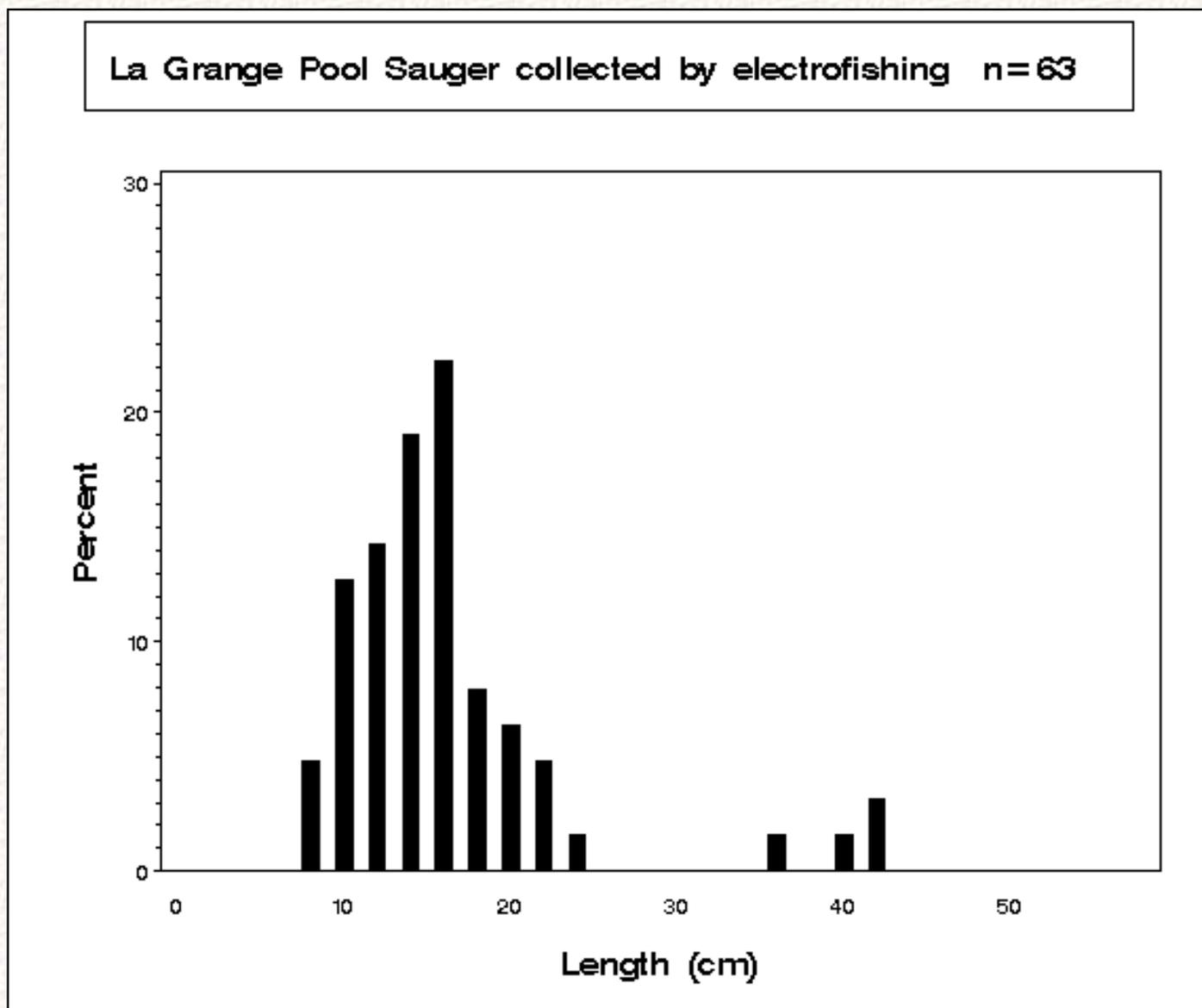
**Figure 15.6** Length distributions (*length*) as a percentage of catch (*percent*) for black crappie (*Pomoxis nigromaculatus*) collected by fyke netting in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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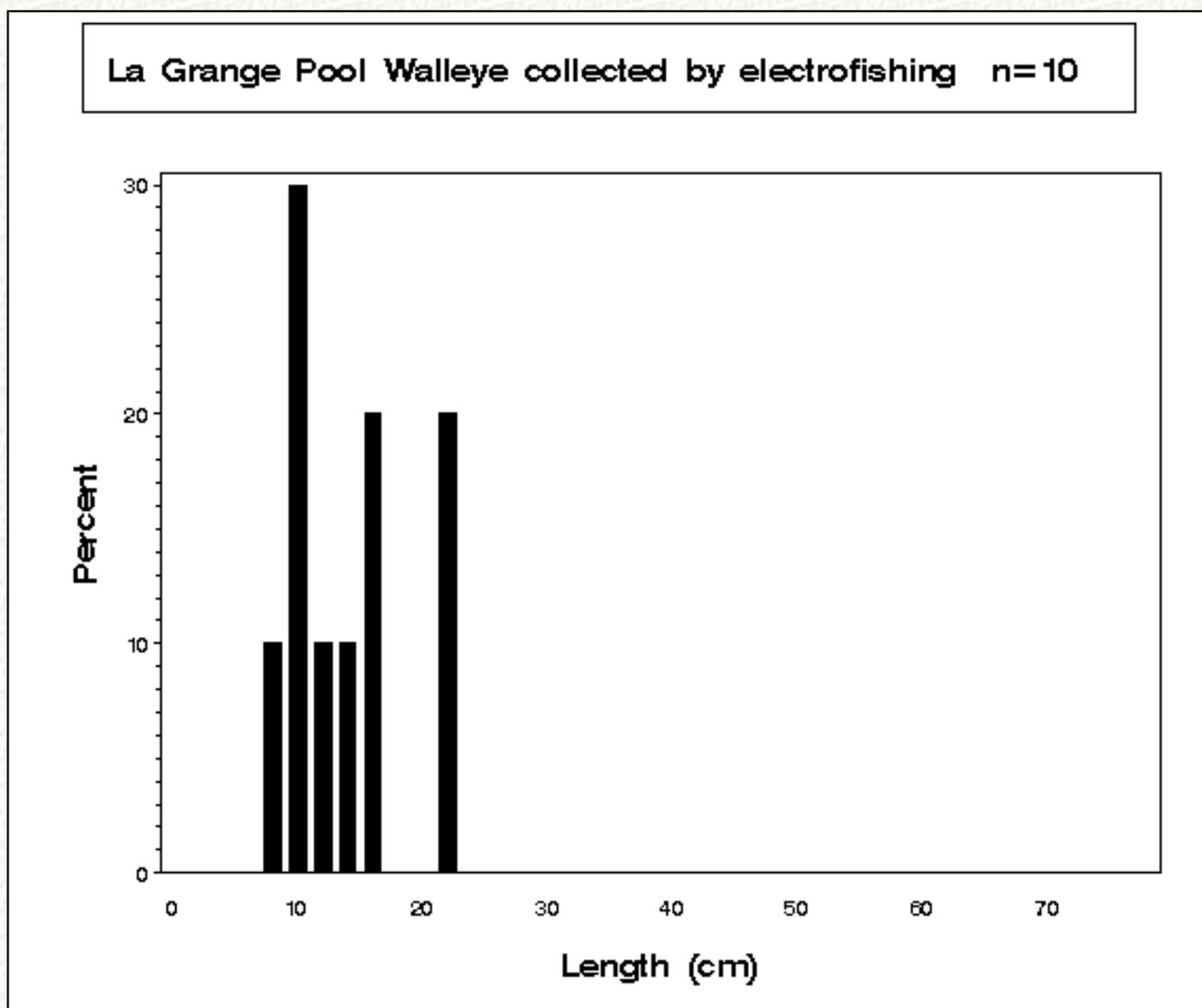
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**Figure 16.6** Length distributions (*length*) as a percentage of catch (*percent*) for sauger (*Stizostedion canadense*) collected by electrofishing in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



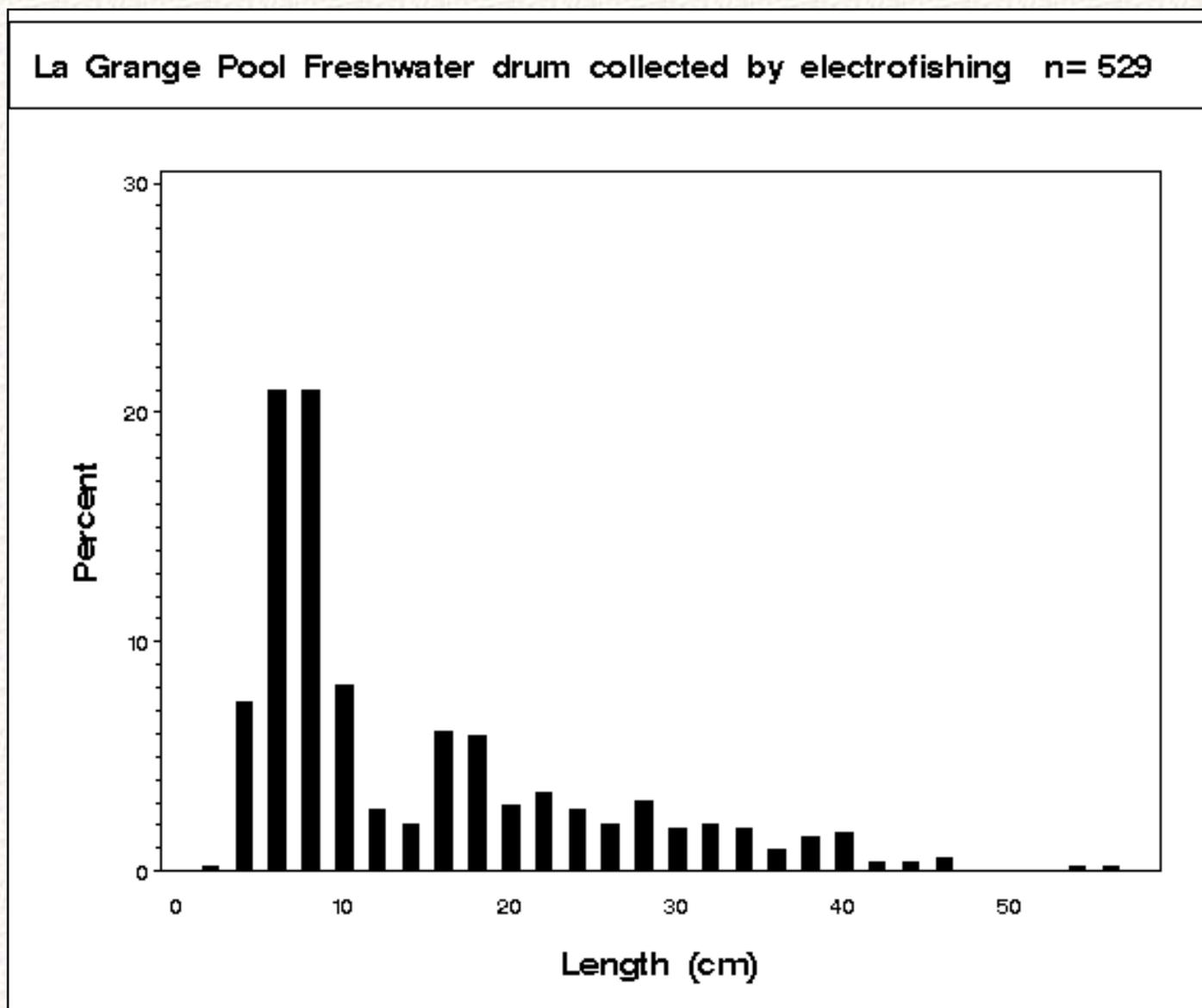
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**Figure 17.6** Length distributions (*length*) as a percentage of catch (*percent*) for walleye (*Stizostedion vitreum*) collected by electrofishing in La Grange Pool of the Upper Mississippi River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



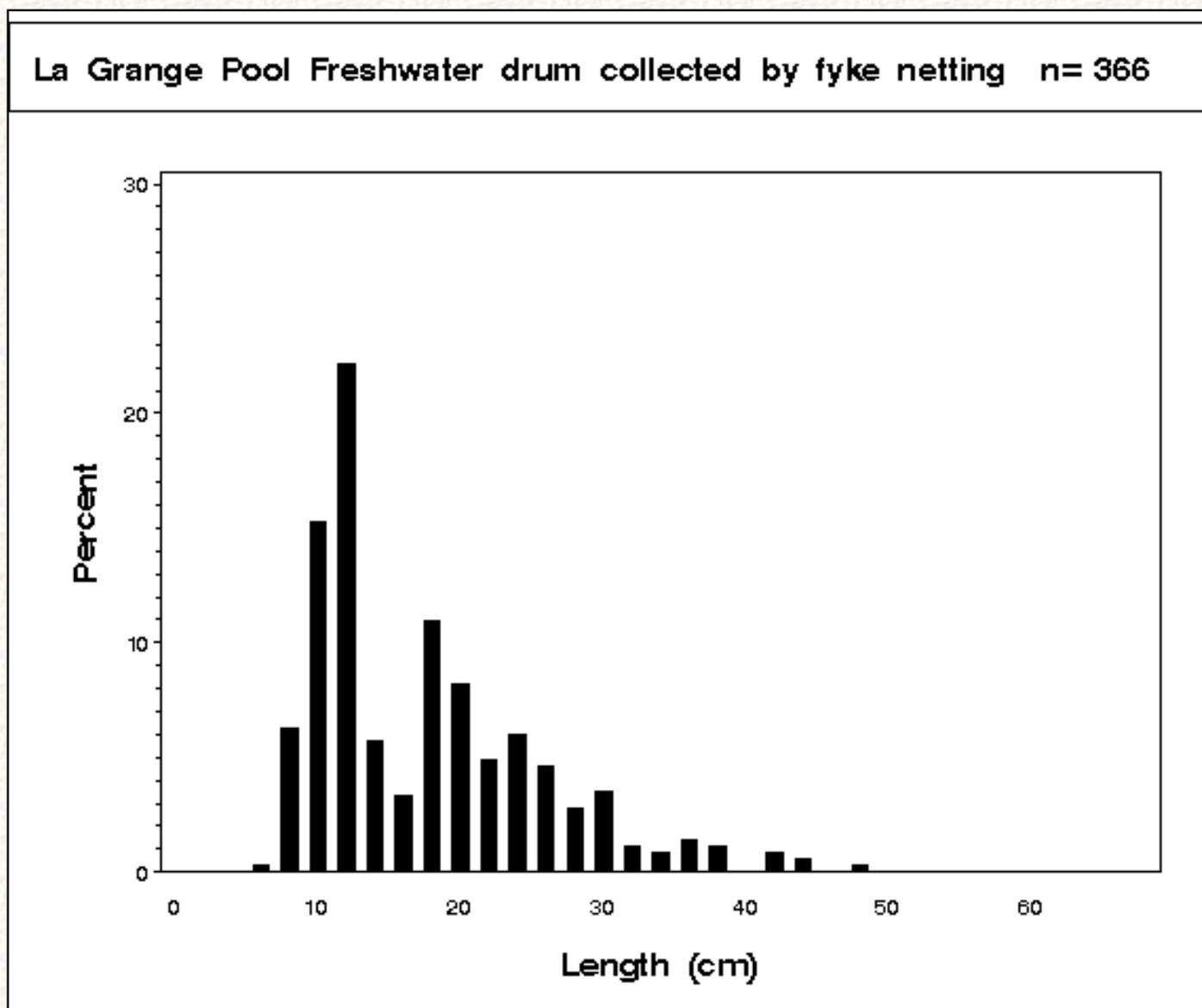
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**Figure 18.6** Length distributions (*length*) as a percentage of catch (*percent*) for freshwater drum (*Aplodinotus grunniens*) collected by electrofishing in La Grange Pool of the Illinois River during 2001. [Click here](#) to view this species' length distributions in all study reaches.



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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 2001. [Click here](#) to view this species' length distributions in all study reaches.



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