ILLINOIS NATURAL HISTORY SURVEY

Long-Term Illinois River Fish Population Monitoring Program

Annual Report, F-101-R2

Center for Aquatic Ecology

Richard E. Sparks and K. Douglas Blodgett

30 May 1991





1990-1991 Annual Progress Report

Long-Term Illinois River Fish Population Monitoring Program

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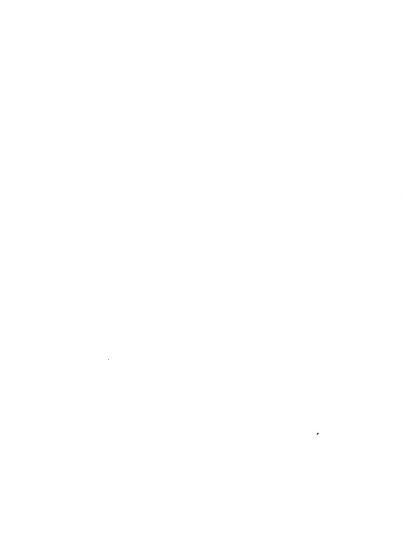
Illinois Natural History Survey River Research Laboratory of the Forbes Biological Station Post Office Box 599 Havana, Illinois 62644

30 May 1991

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DISCLAIMER

The findings, conclusions, and views expressed herein are those of the researchers and should not be considered as the official position of the United States Fish and Wildlife Service or the Illinois Department of Conservation.

ACKNOWLEDGMENTS

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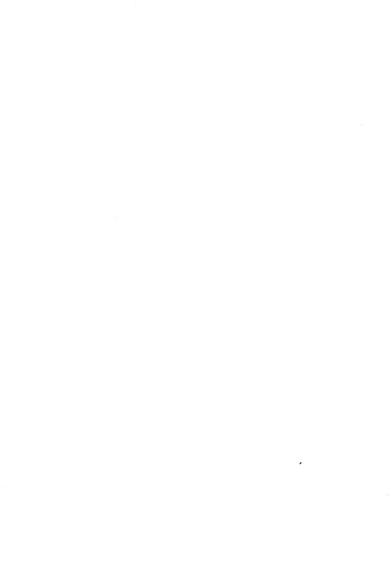


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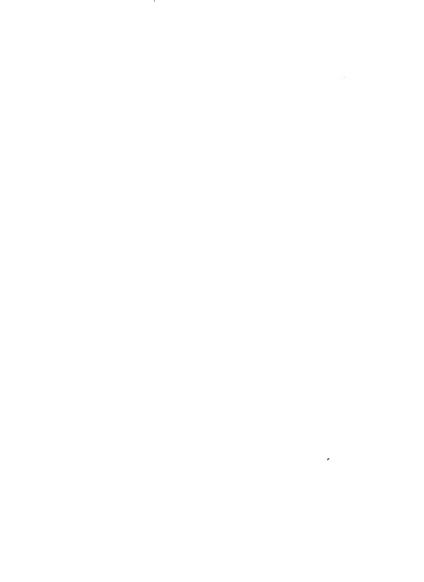
Background

The electrofishing program described in this report adds to a data set begun in 1956 when Dr. William C. Starrett of the Illinois Natural History Survey initiated an annual electrofishing survey of the Illinois River. The survey was supported from a variety of sources until 1985 when funding lapsed. Field work resumed in the fall of 1989 with support from the federal program in sport fish restoration and the Illinois Department of Conservation, as a 5-year Survey and Investigation that extends until 1994.

Organization and Contents of Report

This report is organized according to the 6 jobs described in the Annual Work Plan for Segment 2, and covers the period 1 April 1990 to 31 March 1991. Although a comprehensive analysis of the entire 40-year data set awaits completion of the 5-year investigation in 1994, selected findings are highlighted in each year's annual report. This past year's major findings are reported as Job 6, Presentation of Results, and are briefly summarized below.

The numbers, lengths, and weights of each species of fish caught in 1990 are presented by sampling station in Appendix A. The collections are presented in order by sampling date, and are cross-indexed by location (see the index at the beginning of Appendix A). The Appendix is 76 pages long, and was not attached to all copies of the annual report to save copying and mailing expenses. Copies are available from the Principal Investigator, Dr. Richard E. Sparks, Illinois Natural History Survey; Mr. William Bertrand, Project Officer, Illinois Department of Conservation; and Mr. Jim Allen, Head of the Programs Section, Illinois Department of Conservation. Data are also available for IBM PCs on floppy disks in RBase for DOS.



Summary of Major Findings in 1990

The analysis this year focused on the upper Illinois River where the fish populations have been affected adversely in the past by waste discharges from the Chicago-Joliet metropolitan area, but where game fish populations seem to be recovering as waste treatment improves.

The condition of largemouth bass, smallmouth bass, white bass, and carp, as measured by relative weight, Wr, improved between 1982 and 1985 in the upper Illinois River, but declined by 1989. Wr of the three basses were all above 1.0 by 1985. In contrast, the Wr of channel catfish peaked earlier, at slightly better than 1.0 in 1983, and has since declined to just above 0.8.

Another indicator of a long-term improvement is the development of a sport fishery for sauger in the upper Illinois River. Sauger first appeared in substantial numbers in our catch in 1979 in the upper river, confirming that return of the sauger is a relatively recent event that appears to be associated with water quality improvements made during the decade of the 1970's, starting with the Clean Water Act of 1972.

Although the increased catch of sauger and the improvement in Wr of 4 of 5 species over the last 10 years are encouraging, the decline in Wr values between 1985 and 1989, and the further decline in 1990, are worrisome, particularly since 2 other agencies have obtained similar findings. The Illinois Department of Conservation has noted the same decline in several species of game fish in their electrofishing collections from the river in 1989 and 1990, and Southern Illinois University reports a decline in the Wr of sauger (personal communication, Dr. Roy Heidinger, Professor of Fisheries, Department of Zoology, Southern Illinois University, Carbondale, Illinois, 9 April 1991).

Representatives from all three agencies met in Springfield on 9 April 1991, with representatives from the Illinois Environmental Protection Agency and the Metropolitan

Water Reclamation District of Greater Chicago to discuss possible causes of this decline and to coordinate a more intensive sampling of water quality in 1991. Thus these data sets, including the set from this project, F-101, have demonstrated their utility by providing early warning of a potential problem. It may be possible to identify the cause and take corrective action before the condition of the fish populations in the upper Illinois River revert to the lows that were characteristic of the 1960s.

Job 1. Preparation of Equipment

All old equipment was checked and refurbished as needed. A second timer was added to the control console so that the driver does not have to look to the side at the switchbox to see how long the generator has been running. The old Homelite generator was tuned up and used throughout this sampling season. We measured the voltage to each electrode at the beginning and end of each sampling run to ensure that the output was consistent.

The new MultiQuip generator was modified to serve as an emergency backup, but did not have to be used this year. Mr. K. Douglas Blodgett constructed a resistor box to reduce the voltage of the MultiQuip to the same level as the old Homelite. He also added safety features recommended in the electrofishing school taught by the U.S. Fish and Wildlife Service.

Job 2. Training Staff

Mr. Phillip Moy, Mr. Eric Hopps, and Ms. Ruth Sparks read the procedures manual and practiced with the equipment in the Illinois River at Havana, under the supervision of Dr. Richard E. Sparks and Mr. K. Douglas Blodgett. All staff had previously taken a Red Cross First Aid and CPR course.

Job 3. 1990 Electrofishing

Water levels in the Illinois River were high much of the summer (Figure 1). By 7 September, water levels in the upper river were close to the mean low river stage, so we began electrofishing that part of the river first. All 26 stations on the Illinois River and the one station on the Mississippi at Brickhouse Slough were sampled by 28 September (Figure 2 and Table 1).

Small fish which could not be positively identified in the field were preserved in formalin and brought back to the Laboratory. They were transerred to alcohol and identified during the winter.

Several interesting observations were made during the course of the field work. Yellow perch were extremely rare in collections made years ago, but this year 2 were captured at Ballard Island Chute. Most of the goldfish had the "wild type" bronze coloration, rather than the white, black, or bright orange characteristic of the "dime store" varieties. The bright colors are probably rapidly selected out of the population now by predators, whereas the predators were virtually absent from the upper river 15 years ago. We saw some "knothead" carp, but the incidence is much lower than formerly. Erosion of fins and barbels on the ventral side of bottom-dwelling fishes is still a problem, indicating some sort of stressor associated with the sediment. An anomalous collection was made at Hennepin Island Chute, where only 2 fish were taken in 0.33 hours of electrofishing. The equipment seemed to be working properly, and the abundance of fish in collections made at the stations above and below Hennepin were about as expected. The generator labored when the electrodes were switched on (as it is supposed to under demand) and the voltages to each electrode were in the normal range. It is possible that fish had abandoned the chute because of some noxious material. No dead fish were observed on the shoreline.

Water surface elevation of the Illinois River at Havana in 1990. Figure 1.

Horizontal lines indicate pool stage and flood stage. At pool stage, that there were problems in reading the gage or there were reportthe water level is maintained at a minimum depth for commercial with the U.S. Army Corps of Engineers at the time this report was boat traffic by the navigation dam at La Grange. At flood stage, Electrofishing was conducted during the period indicated by the ing errors. We were still trying to confirm the January readings horizontal bar. It is unlikely that the water levels fluctuated as rapidly in January as indicated by the graph. It is more likely the river overtops its banks and begins to fill the floodplain. being written.

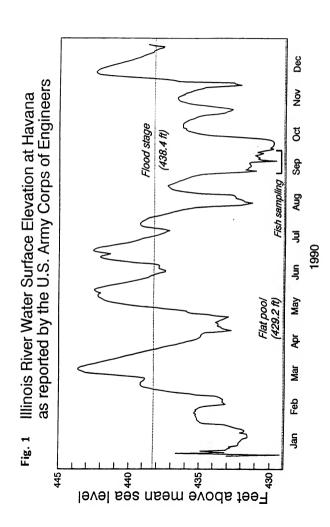
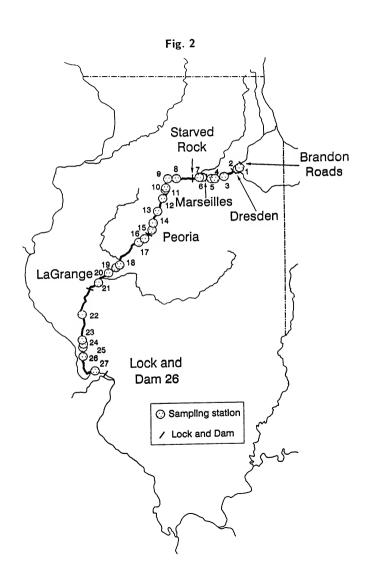


Figure 2. Location of the 27 sampling stations along the Illinois Waterway. Station 27 is in the Mississippi River, just below the mouth of the Illinois River. Stations 1 and 2 are in the Des Plaines River, which joins with the Kankakee to form the Illinois River. In this report, we define the upper reach of the Illinois Waterway as beginning at River Mile 190, just upstream of Peoria. Stations 1 through 12 are in the Upper Illinois Waterway.



⁸Collection 1990-26 was from Brickhouse Slough on the Mississippi River

						E .	Elapsed		Water			Conduct !-	÷
Collection	Date	8	is •	River	River mile	time (hrs)	3 2	Velocity (ft/sec)	temperature DO Sechi vity (degrees C) (mg/l) (inches) (µmhos) Volts	8 j	Secchi (Inches)	vity (pumhos)	Volts
10-0461	07-Sep	m	Treats Island	279.4	280.0	8.	11:55	9.0	8.5	7.7	25.2	8	Ē
1990-02	07-Sep	m	Mouth of DuPage River	8.972	277.8	1.00	13:30	0.3	27.2	07.6	24.0	9	8
1990-03	08-Sep	4	Veupecan Island	2.092	261.1	1.0	8:54	1.9	25.5	7.85	52.6	679	8
1990-04	08-Sep	4	Johnson Island	549.6	249.8	0.47	12:38	9.0	27.0	8.70	19.7	630	56
1990-05	08-Sep	4	Bellards Island	247.7	248.2	0.55	14:45	0.1		10.50	11.8	8	Ē
1993-08	10-Sep	~	Bulls Island Bend	241.1	241.6	0.32	15:00	1.2	28.5	9.70	20.1	650	Ę
1990-07	10-Sep	'n	Bulls Island	2.072	540.9	79.0	16:40	=	28.0	10.30	18.1	650	Ē
1990-08	11-Sep	۰	Clark Island	214.9	215.6	79.0	8:59	1.0	26.5	7.80	16.9	650	2
1953-09	11-Sep	•	Hennipen Island	207.5	208.1	0.30	10:30	1.0	26.5	8.6	14.2	989	180
1993-10	11-Sep	•	Upper Twin Sisters	203.0	203.5	97.0	11:50	8.0	27.0	7.70	14.2	920	185
1993-11	11-Sep	•	Lower Twin Sisters	202.6	203.2	74.0	13:05	8.0	27.0	8.10	15.0	670	185
1990-12	11-Sep	•	Henry Island	193.3	194.5	0.51	16:31	9.0	27.0	12.30	11.8	989	185
1990-13	11-Sep	۰	Chillicothe Island	180.1	181.0	0.65	18:55	0.5	27.0	8.20	9.8	069	178
1950-14	12-Sep	•	Lower Peoris Lake	163.0	163.5	0.57	12:45	0.0	27.0	13.00	8.8	650	5
1993-15	12-Sep	•	Upper Peoris Lake	170.8	12.9	0.31	14:50	0.0	29.5	19.90	7.9	8	Ķ
1995-16	13-Sep	^	Pekin	154.5	154.9	0.53	8:38	9.0	26.5	6.90	8.7	92	183
1950-17	13-Sep	_	Turkey Island	148.0	148.4	27.0	10:15	9.0	27.0	6.80	8.7	92	180
1993-18	13-Sep	~	Upper Bath Chute	112.8	113.2	0.62	13:55	1.3	0.82	8.8	7.9	200	8
1952-19	13-Sep	~	Lower Bath Chute	107.0	107.3	0.57	16:02	1.0	27.0	5.80	7.9	200	185
1990-20	13-Sep	~	Sugar Creek Island	8.7	96.3	0.61	18:25	9.0	27.0	5.40	7.1	8	180
1950-21	14-Sep	1	Grape-Bar Islands	85.7	87.0	0.73	9:35	9.0	26.0	5.2	7.5	8	8
1953-22	14-Sep	«	81g Blue Island	57.8	59.0	0.87	13:15	2.1	0.92	5.7	7.1	92	200
1950-23	27-Sep	€0	Crater-Willow Islands	29.5	30.8	0.50	11:40	£.	18.5	7.50	11.0	9	800
1993-24	27-Sep	•	Hurricane Island	27.0	27.9	0.97	13:42	0.7	20.0	9.10	11.4	280	5
180.CS	27-Sep	€0	Mortland Island	18.3	18.8	0.1	17:20	6.0	20.0	9.40	9.01	909	8
1993-26	28-Sep	23	Brickhouse Slough	207.2	209.0	8.	9:45	0.1	20.5	10.30	16.9	375	210
1990-27	28-Sen	•	Oach Chirte	7 70	× ×	7	05.30		3 10	20	;	,	

Another discouraging observation is the degree of sedimentation. It was impossible to fish the exact locations sampled in the past at Ballard Island Chute and Detweiller Marina because the boat became stranded. These 2 stations will have to be abandoned and alternative sites picked for 1991. A third station, Turkey Island Chute, changed from a deep to a shallow chute approximately 15 years ago, when it apparently was filled with sandy dredge spoil. The on-site dredge spoil inspection teams will probably avert another Turkey Island Chute. However, gradual filling of some of the remaining side channels and backwaters will continue unless remedial action, such as proposed for a few locations under the Environmental Management Program, is undertaken. Hurricane and Diamond Island chutes in the lower Illinois River remain deep and generally have good fish populations year to year. These chutes have a fairly uniform width and moderate current velocity, and appear to be self-scouring. The same design might be self-maintaining if copied in other parts of the river.

Jobs 4 and 5. Database

Mr. Robert Illyes has made considerable progress at the Survey's main office in Champaign on merging the historical data sets and making them available in an RBase format that will run on an IBM PC. This has not been an easy task because the coding differs markedly between the Starrett-Sparks data set and the set collected by Kenneth Lubinski. During the past 15 years the mainframe computers and the software used for data analysis at Champaign have changed at least twice, adding further incompatibilities and complications.

The historical data are being converted to coding and formats that are consistent with this project (F-101-R), which began in 1989.

Mr. Illyes is developing checking routines that will find obvious errors, such as a 1-inch fish that is listed as weighing 2 pounds, but it may still be necessary to complete one more round of verification by laboriously checking printouts against the original

field data sheets.

Job 6. Presentation of Results

Results from this project were included in a talk presented at the 29th annual meeting of the Illinois Chapter of the American Fisheries Society in Urbana, Illinois on 6 March 1991, and were presented at a meeting of fishery biologists and environmental engineers concerned with the relationships between water quality and the status of fish populations in the Upper Illinois Waterway in Springfield on 9 April 1991. The general increase in relative weight of 5 species of fish, including 4 sport species, from 1982 to 1985 was good news for the fishery managers and water quality managers, as was the appearance of substantial numbers of sauger in the catch, starting in 1979. However, recent declines in relative weights of the same species, including sauger, prompted the Illinois Department of Conservation (IDOC) to call the meeting in Springfield, which was attended by Dr. Sparks and Mr. K. Douglas Blodgett from the Illinois Natural History Survey, and by representatives from the Illinois Environmental Protection Agency, the Cooperative Fisheries Unit at Southern Illinois University, and the Metropolitan Water Reclamation District of Greater Chicago. The information on relative weights and sauger catch that was presented at these meetings is summarized below and in the accompanying figures.

Relative Weight, Wr. The standard length-weight relationships used for comparison with the values from the Upper Illinois River were taken from sources cited in Murphy, Willis and Springer (1991) and listed in their Table 1: Stephen (1978) for carp, Anderson (1980) for channel catfish and smallmouth bass, Brown and Murphy (in press) for white bass, and Wege and Anderson (1978) for largemouth bass.

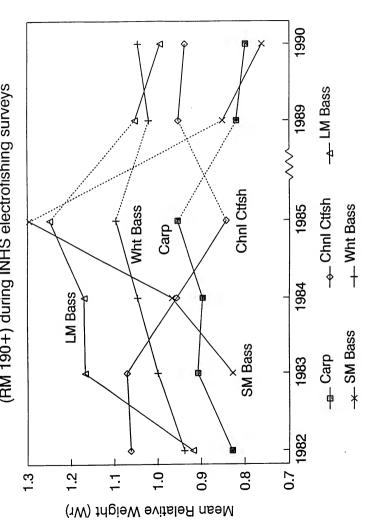
The relative weights of white bass, smallmouth bass, and largemouth bass increased to values greater than 1.0 between 1982 and 1985 (Figure 3). The greatest increase occurred in smallmouth bass, whose Wr values went from approximately 0.8 in 1983 to 1.3 in 1985. No electrofishing was done from 1986 through 1988, so we do not know what happened to the Wr values in this interval. However, the values for all three species were lower in 1989-1990 than in 1985. Changes in weight-length relationships, including Wr, can reflect changes in the food supply, water quality, habitat quality, or in the length range of the fish. One might speculate that these three species may show the same pattern because they have similar feeding habits: they consume invertebrates when young and graduate to larger prey, primarily fish, as adults.

The hypothesis that the quality or abundance of forage for adult sport fish might explain the common downward trend does not explain why the common carp, a bottom-feeding omnivore that is capable of consuming detritus, shows the same pattern. Also, the channel catfish shows a unique pattern: its Wr value peaked in 1983, declined through 1985, and is at an intermediate level in 1989-1990. The channel catfish is an omnivore that consumes benthic macroinvertebrates, but will also take small fish. Without information on populations of forage organisms, including benthic macroinvertebrates, it is virtually impossible to test the food deficiency hypothesis.

There is a suggestive negative correlation between Wr values and ammonia concentrations in the Upper Illinois River (personal communication, 9 April 1991, Mr. William Bertrand, Streams Program Administrator, Illinois Department of Conservation). The un-ionized form of ammonia is toxic to fish and other aquatic animals. The concentration of municipalities and industries in the Chicago-Joliet discharge ammonia, as well as nitrogen-containing organic matter that accumulates in sediment deposits and

Relative weight, Wr, of common carp, channel catfish, white bass, smallmouth bass, and largemouth bass collected from the upper Illinois Waterway, 1982-1990. No electrofishing was conducted from 1986 through 1988. Figure 3.

Fish collected from the Upper Illinois Waterway (RM 190+) during INHS electrofishing surveys Fig. 3



could form ammonia under anaerobic conditions. Again, more information is needed to determine whether this correlation is coincidental or causal. Virtually any pollutant that occurs in sewage or industrial effluent will occur in higher concentrations in the upper river, near the sources, than farther downstream, so ammonia is only one suspect.

In order to determine whether the slight declines we observed in Wr values between 1989 and 1990 might be attributable to different length ranges of fish captured in the two years, the weight-length values were plotted and visually examined (Figures 4-8). With the exception of smallmouth bass, the lengths in the two years overlap and are in the same range. Too few smallmouth bass were captured in the Upper River in 1990 to make a valid comparison of Wr values (Figure 8).

Sauger. Although the sampling design of the long-term electrofishing program is biased against sauger and walleye (no tailwaters are sampled and no night electrofishing is done), it is gratifying to note that the increased catch of sauger, starting in 1979, is verified independently by the IDOC sampling program and by the development of a sport fishery for sauger in the Upper Illinois River (Figure 9). Fish sampling begun in 1990 as part of the Long Term Resource Monitoring Program (LTRM) likewise shows that a substantial population of sauger occur in the La Grange Pool of the Illinois River, just below the navigation dam at Peoria (Figure 1). Although the increased catch of sauger, like the Wr values, shows an improvement in the fish populations that may be related to improved water quality in the last decade, the recent decline in numbers of sauger and in Wr since 1985 may be an early warning of impending problems, and an incentive to determine and correct the causes.

Figure 4. Weight-length relationships and Wr values of common carp taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of Wr values.

Figure 5. Weight-length relationships and Wr values of channel catfish taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of Wr values.

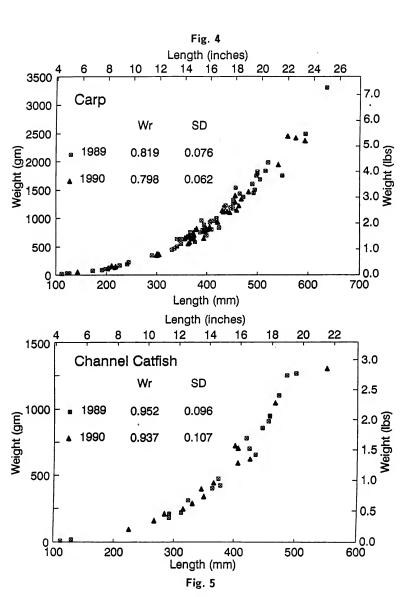
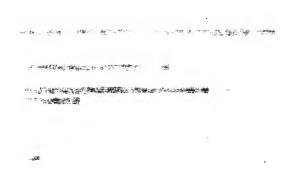


Figure 6. Weight-length relationships and Wr values of white bass taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of Wr values.



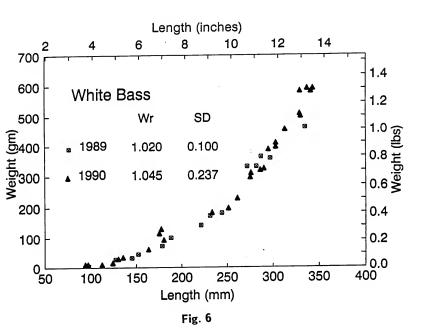


Figure 7. Weight-length relationships and Wr values of largemouth bass taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of Wr values.

Figure 8. Weight-length relationships and Wr values of smallmouth bass taken from the Upper Illinois Waterway in 1989 and 1990. SD = standard deviation of Wr values.

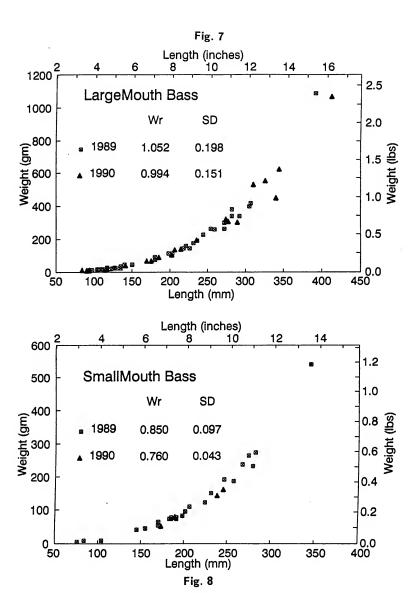
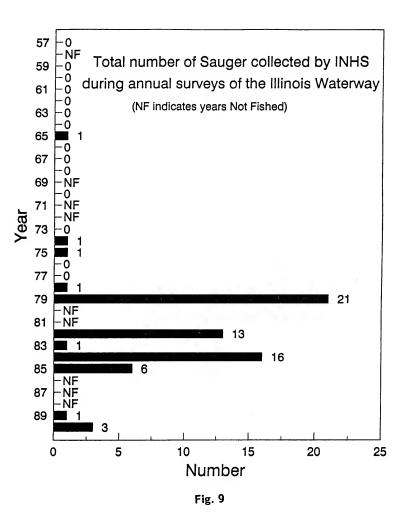


Figure 9. Total number of sauger collected during annual electrofishing surveys of the Illinois Waterway. The total hours fished were roughly the same each year. Zeros indicate that electrofishing was conducted and no sauger were taken. NF means that no electrofishing was done, either because of high water or lack of funding.



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 $\label{eq:condition} \mbox{Index to Appendix A}$ (Collections are numbered in order by date of collection)

Collection 1990-	Collection Site	River miles	Collection Date	Page
1990- 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	Site Treats Island Mouth of DuPage River Waupecan Island Johnson Island Ballards Island Bulls Island Bend Bulls Island Clark Island Hennepin Island Upper Twin Sisters Lower Twin Sisters Henry Island Chillicothe Island Lower Peoria Lake Upper Peoria Lake Pekin Turkey Island Upper Bath Chute	279.4 - 280.0 276.8 - 277.8 260.2 - 261.1 249.6 - 249.8 247.7 - 248.2 241.1 - 241.6 240.2 - 240.9 214.9 - 215.6 207.5 - 208.1 203.0 - 203.5 202.6 - 203.2 193.3 - 194.5 180.1 - 181.0 170.8 - 170.9 154.5 - 154.9 148.0 - 148.4 112.8 - 113.2	Date 09/07/90 09/07/90 09/08/90 09/08/90 09/08/90 09/10/90 09/11/90 09/11/90 09/11/90 09/11/90 09/11/90 09/11/90 09/11/90 09/11/90 09/11/90 09/11/90 09/11/90 09/13/90 09/13/90 09/13/90 09/13/90 09/13/90	A-1 A-4 A-8 A-11 A-13 A-16 A-20 A-23 A-24 A-26 A-31 A-35 A-38 A-41
19 20	Lower Bath Chute Sugar Creek Island	107.0 - 107.3 95.7 - 96.3	09/13/90 09/13/90	
21	Grape-Bar Islands	85.7 - 87.0	09/14/90	
22	Big Blue Island	57.8 - 59.0	09/14/90	
23	Crater-Willow Islands	29.2 - 30.8	09/27/90	
24	Hurricane Island	27.0 - 27.9	09/27/90	
25	Mortland Island	18.3 - 18.8	09/27/90	
26 27	Brickhouse Slough, Miss. Dark Chute	R00- 24.4 - 25.5	09/28/90 09/28/90	

Lepomia macr	och i mu	•				
bluegill	COLLITA	Number	Length Range	Total Weight	Mean Weight	Dispositi
		1	5.75 -0-	0.14	0.140	released
Total	Number	r: 1 h	Number/hr: 1.0	Wt: 0.14	Wt/hr: 0	.140
Pimephales n	otatus					
bluntnose mi				Total	Mean	
		Number	Length Range	Weight	Weight	Dispositi
			1.54 3.07	0.04	0.005	preserved
		1	1.61 -0-	-0-	-0-	preserved
Total	Number	r: 9 1	Number/hr: 9.0	Wt: 0.04	Wt/hr: 0	. 040
Cyprinus car	pio					
carp				Total	Mean	
		Number	Length Range	Weight	Weight	Dispositi
		1	14.37 -0-	1.27	1.270	released
		ĩ	14.65 -0-	1.40	1.400	released
		1	14.65 -0-	1.64	1.640	released
		1	15.63 -0-	1.73	1.730	released
		1	17.95 -0-	3.07	3.070	released
		1	18.07 -0-	2.50	2.500	released
		1	22.64 -0-	5.32	5.320	released
Total	Number	: 7 h	Number/hr: 7.0	Wt:16.93	Wt/hr:16.	930
Cyprinus car		Carassiu	s auratus			
carp x goldf	ish			Total	Mean	
		Number	Length Range	Weight	Weight	Dispositi
		1	9.33 -0-	0.46	0.460	released
		1	9.69 -0-	0.48	0.480	released
		1	12.56 -0-	1.07	1.070	released
Total	Number	: 3 N	Number/hr: 3.0	Wt: 2.01	Wt/hr: 2.	010
Notropis ath		les				
emerald shin	er			Total	Mean	
		Number	Length Range	Weight	Weight	Dispositi
		2	3.43 3.90	-0-	-0-	preserved
		ī	3.46 -0-	-0-	-0-	released

	Lengths 1	.ii iliches and we	righte in p	Cunas	
Carassius auratus	:				
goldfish			Total	Mean	
301411	Number	Length Range	Weight	Weight	Disposition
	1	6.93 -0-	0.24	0.240	released
	1	7.48 -0- ·	0.27	0.270	released
	1	8.39 -0-	0.32	0.320	released
Total Numb	er: 3 N	Number/hr: 3.0	Wt: 0.83	Wt/hr: 0	.830
Notemigonus cryso	leucas		Total	Mean	
golden shiner	M	Length Range	Weight	Weight	Disposition
	Number	Length Range	weight	Welgite	Disposition
	1	5.04 -0-	0.04	0.040	released
Total Numb	er: 1 N	Number/hr: 1.0	Wt: 0.04	Wt/hr: 0	.040
Lepomis cyanellus					
green sunfish			Total	Mean	
groom banazan	Number	Length Range	Weight	Weight	Disposition
	1	1.61 -0-	-0-	-0-	released
	1	2.44 -0-	-0-	-0- -0-	released released
	1	2.48 -0-	-0-		released
	1	2.87 -0-	0.01	0.010 0.032	released
	6	2.99 4.02	0.19	0.032	released
	1	4.33 -0-	0.04	0.060	released
	1	4.45 -0-		0.130	released
	1	5.35 -0- 5.59 -0-	0.13 0.15	0.150	released
	1	5.59 -0- 5.71 -0-	0.15	0.120	released
		5.71 -0-	0.12	0.120	16160560
Total Numb	oer: 15 h	Number/hr: 15.0	Wt: 0.70	Wt/hr: 0	.700
Dorosoma cepedian	านา				
gizzard shad			Total	Mean	
,	Number	Length Range	Weight	Weight	Disposition
	1	7.13 -0-	0.17	0.170	released
	1	7.24 -0-	0.17	0.170	released
	1	7.76 -0-	0.19	0.190	released
	1	7.95 -0-	0.23	0.230	released
	1	9.09 -0-	0.24	0.240	released
	1	9.29 -0-	0.28	0.280	released
	1	9.49 -0-	0.27	0.270	released
	1	9.65 -0-	0.36	0.360	released
	1	9.69 -0-	0.33	0.330	released
	1	9.72 -0-	0.36	0.360	released
	1	10.04 -0-	0.25	0.250 0.370	released released
	1	10.04 -0-	0.37		released
	1	10.83 -0-	0.38 0.29	0.380 0.290	released
	1	10.98 -0-		0.420	released
	1	11.50 -0-	0.42	0.550	released
	1	11.93 -0- 12.72 -0-	0.55 0.55	0.550	released
	1	12.72 -0-	0.55	0.550	

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largemouth base			•		Total	Mean	D1
	- N	umber	Length —	kange	Weight	Weight	Disposition
		1	3.07	-0-	-0-	-0-	released
		1	3.11	-0-	-0-	-0-	released
		1	3.54 13.39	-o-	0.01 0.98	0.010 0.980	released released
Total No	mber:	4 1	Number/h	r: 4.0	Wt: 0.99	Wt/hr: 0	.990
Lepomis megalo							
longear sunfish		_			Total	Mean	
	Nu	umber	Length	Range	Weight	Weight	Disposition
		1	2.99	-0-	0.02	0.020	preserved
		ī	3.54	-o-	0.03	0.030	preserved
Total N	umber:	2 1	Number/h	r: 2.0	Wt: 0.05	Wt/hr: 0	.050
Ambloplites ru			Number/h	r: 2.0		,	.050
Ambloplites ru	pestri				Wt: 0.05 Total Weight	Wt/hr: 0 Mean Weight	.050 Disposition
Ambloplites ru	pestri	ımber			Total	Mean	Disposition
Ambloplites ru	pestri	3	Length	Range	Total Weight	Mean Weight	
Ambloplites rup rock bass	pestri	mber	Length	Range -0- -0-	Total Weight	Mean Weight	Disposition preserved released
Ambloplites ruprock bass Total No	pestri:	mber	Length 4.37 6.69	Range -0- -0-	Total Weight 0.04 0.24 Wt: 0.28	Mean Weight 0.040 0.240 Wt/hr: 0	Disposition preserved released
Ambloplites ruprock bass Total No	Number:	mber	Length 4.37 6.69	Range -0- -0- r: 2.0	Total Weight 0.04 0.24	Mean Weight 0.040 0.240	Disposition preserved released
Ambloplites rup rock bass	Number:	imber	Length 4.37 6.69	Range -0- -0- r: 2.0	Total Weight 0.04 0.24 Wt: 0.28	Mean Weight 0.040 0.240 Wt/hr: 0	Disposition preserved released

Total for 1990- 1 Number: 68 Number/hr: 68.00 Wt:27.5 Wt/hr:27.45

	_			_	
Lepomis macrochiru bluegill	s		Total	Mean	
	Numbe	r Length Range	Weight	Weight	Disposition
	1	2.24 -0-	-0-	-0-	released
	1	4.84 -0-	0.08	0.080	released
	1	5.28 -0-	0.12	0.120	released
	1	5.63 -0-	0.12	0.120	released
	1	5.75 -0-	0.13	0.130	released
	1	6.06 -0- -00-	0.16 0.10	0.160 0.100	released released
		-00-	0.10	0.100	14164864
Total Numbe	r: 7	Number/hr: 7.0	Wt: 0.71	Wt/hr: 0	.710
Pimephales notatus					
bluntnose minnow			Total	Mean	
	Numbe	r Length Range	Weight	Weight	Disposition
	8	1.97 2.80	0.04	0.005	preserved
	1	2.83 -0-	-0-	-0-	released
Total Numbe	r: 9	Number/hr: 9.0	Wt: 0.04	Wt/hr: 0	.040
Cyprinus carpio					
carp			Total	Mean	
	Numbe	r Length Range	Weight	Weight	Disposition
	1	8.27 -0-	0.33	0.330	released
	1	8.58 -0-	0.31	0.310	released
	1	13.98 -0-	1.40	1.400	released
	1	14.92 -0-	1.78	1.780	released
	1	16.93 -0-	2.48	2.480	released
Total Numbe	r: 5	Number/hr: 5.0	Wt: 6.30	Wt/hr: 6	.300
Ictalurus punctatu	s				
channel catfish			Total	Mean	
	Numbe	r Length Range	Weight	Weight	Disposition
	1	12.40 -0-	0.53	0.530	released
	1	13.74 -0-	0.73	0.730	released
	1	15.94 -0-	1.53	1.530	released
	r: 3	Number/hr: 3.0	Wt: 2.79	Wt/hr: 2	.790
Total Numbe					
	Carass	ius auratus	-		
Cyprinus carpio x	Carass	ius auratus	Total	Mean	
	Carass Numbe		Total Weight	Mean Weight	Dispositio

								Page A- 5
y 1991			990 Elect					Page A- 5
	L	engtns	in inche	s and w	eight	s in p	ounas	
		1	8.78	-0-		0.37	0.370	released
		ī	9.21	-0-		0.45	0.450	released
		ī	9.25	-0-		0.46	0.460	released
		ī	10.51	-0-		0.65	0.650	released
		1	11.34	-0-		0.76	0.760	released
		1	11.65	-0-		0.76	0.760	released
		1	12.24	-0-		1.05	1.050	released
		1	16.61	-0-		2.30	2.300	released
Total	Numbe	r: 9	Number/h	r: 9.0	Wt:	7.06	Wt/hr: 7	.060
Notropis ath		des						
emerald shir	ner					otal	Mean	
		Numbe	r Length	Range	W	eight	Weight	Disposition
		1	1.97	-0-		-0-	-0-	preserved
		5	2.99	3.31		0.03	0.006	preserved
		2	3.11	3.23		0.02	0.010	preserved
Total	Numbe	r: 8	Number/h	r: 8.0	Wt:	0.05	Wt/hr: 0	.050
Carassius au	ıratus							
goldfish					T	otal	Mean	
		Numbe	r Length	Range	W	eight	Weight	Disposition
		1	6.50	-0-		0.20	0.200	released
		1	6.50 6.77	-0- -0-		0.20 0.21	0.200 0.210	released released
Total	Numbe	1		-0-	Wt:			released
		r: 2	6.77	-0-	Wt:	0.21	0.210	released
Notemigonus	crysol	r: 2	6.77	-0-		0.21	0.210	released
Notemigonus	crysol	r: 2	6.77 Number/h	-0- r: 2.0	T	0.21 0.41	0.210 Wt/hr: 0 Mean	released
Notemigonus	crysol	r: 2	6.77 Number/h	-0- r: 2.0	T	0.21	0.210 Wt/hr: 0	released
Notemigonus	crysol	r: 2	6.77 Number/h	-0- r: 2.0	T	0.21 0.41	0.210 Wt/hr: 0 Mean	released
	crysol	r: 2 eucas Numbe	6.77 Number/h	-0- r: 2.0 Range 3.58	To	0.21 0.41 otal	0.210 Wt/hr: 0 Mean Weight	Disposition preserved
Notemigonus golden shine	crysol	r: 2 eucas Numbe	6.77 Number/h r Length 3.19	-0- r: 2.0 Range 3.58	To	0.21 0.41 otal sight 0.01	0.210 Wt/hr: 0 Mean Weight 0.005	Disposition preserved
Notemigonus golden shine Total Lepomis cyar	crysol	r: 2 eucas Numbe	6.77 Number/h r Length 3.19	-0- r: 2.0 Range 3.58	To We Wt:	0.21 0.41 otal sight 0.01	0.210 Wt/hr: 0 Mean Weight 0.005	Disposition preserved
Notemigonus golden shine Total Lepomis cyar	crysol	r: 2 eucas Numbe	6.77 Number/h r Length 3.19 Number/h	-0- r: 2.0 Range 3.58 r: 2.0	Wt:	0.21 0.41 otal eight 0.01	0.210 Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0	Disposition preserved
Notemigonus golden shine Total	crysol	1 r: 2 eucas Numbe 2 r: 2	6.77 Number/h r Length 3.19 Number/h	-0- r: 2.0 Range 3.58 r: 2.0	Wt:	0.21 0.41 otal eight 0.01 0.01	0.210 Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0	released .410 Disposition preserved .010
Notemigonus golden shine Total	crysol	1 r: 2 eucas Numbe 2 r: 2 Numbe	6.77 Number/h r Length 3.19 Number/h: r Length	-0- r: 2.0 Range 3.58 r: 2.0 Range -0-	Wt:	0.21 0.41 otal eight 0.01 0.01	0.210 Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight	released .410 Disposition preserved .010 Disposition released
Notemigonus golden shine Total Lepomis cyar green sunfis	Crysol Number Number	1 r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1	6.77 Number/h r Length 3.19 Number/h: r Length -0-	-0- r: 2.0 Range 3.58 r: 2.0 Range -0-	Wt:	0.21 0.41 otal eight 0.01 0.01 otal eight 0.02	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020	released .410 Disposition preserved .010 Disposition released
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	1 r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1	6.77 Number/h r Length 3.19 Number/h: r Length -0-	-0- r: 2.0 Range 3.58 r: 2.0 Range -0-	Wt:	0.21 0.41 otal eight 0.01 0.01 otal eight 0.02	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020	released .410 Disposition preserved .010 Disposition released
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	1 r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1	6.77 Number/h r Length 3.19 Number/h: r Length -0- Number/h:	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0	Wt:	0.21 0.41 otal eight 0.01 0.01 otal eight 0.02 0.02	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0	released .410 Disposition preserved .010 Disposition released .020
Notemigonus golden shine Total Lepomis cyar green sunfis	Number	r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1	6.77 Number/h r Length 3.19 Number/h: r Length -0- Number/h:	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0	Wt:	0.21 0.41 otal eight 0.01 0.01 otal eight 0.02 otal	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0	released .410 Disposition preserved .010 Disposition released
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1	6.77 Number/h r Length 3.19 Number/h: r Length -0- Number/h:	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0	Wt:	0.21 0.41 otal eight 0.01 0.01 otal eight 0.02 otal	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0	released .410 Disposition preserved .010 Disposition released .020 Disposition
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1 m	6.77 Number/h r Length 3.19 Number/h r Length -0- Number/h r Length	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0 Range	Wt:	0.21 0.41 otal sight 0.01 0.01 otal sight 0.02 otal sight	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0	released .410 Disposition preserved .010 Disposition released .020
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	1 r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1 m	6.77 Number/h r Length 3.19 Number/h: r Length -0- Number/h: r Length 2.95	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0	Wt:	0.21 0.41 otal eight 0.01 otal eight 0.02 otal eight 0.02 otal eight 0.01	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0	Disposition preserved .010 Disposition released .020 Disposition released
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	1 r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1 m Numbe	6.77 Number/h r Length 3.19 Number/h r Length -0- Number/h r Length 2.95 3.19	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0 Range -0- 5.35	Wt:	0.21 0.41 otal eight 0.01 0.01 otal eight 0.02 otal eight 0.02 otal eight 0.07	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0	Disposition preserved .010 Disposition released .020 Disposition released released
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	1 r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1 m Numbe	6.77 Number/h r Length -0- Number/h: r Length -0- Number/h: r Length 2.95 3.19	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0 Range -0- 5.35 8.35	Wt:	0.21 0.41 otal eight 0.01 0.01 otal eight 0.02 otal eight 0.02 otal eight 0.10	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0 Mean Weight 0.010 0.029 0.110	Disposition preserved .010 Disposition released .020 Disposition released released released
Notemigonus golden shine Total Lepomis cyar green sunfis Total Dorosoma cep	Number	1 r: 2 eucas Numbe 2 r: 2 Numbe 1 r: 1 m Numbe	6.77 Number/h r Length 3.19 Number/h r Length -0- Number/h r Length 2.95 3.19 5.35 5.39	-0- r: 2.0 Range 3.58 r: 2.0 Range -0- r: 1.0 Range -0- 5.35 8.35 6.93	Wt:	0.21 0.41 otal eight 0.01 otal eight 0.02 otal eight 0.02 otal eight 0.07 otal eight 0.06	Wt/hr: 0 Mean Weight 0.005 Wt/hr: 0 Mean Weight 0.020 Wt/hr: 0 Mean Weight 0.020 O.020	Disposition preserved .010 Disposition released .020 Disposition released released released released

May 1991		0 Electrofish: n inches and t		ounds	Page A- 6
1	engths i	n inches and v	weights in f	ounas	
	•	7.68 -0-	0.16	0.160	released
	1			0.100	released
	1	7.72 -0-	0.22	0.220	released
	4 5	8.94 9.61 8.94 10.16	1.12	0.280	released
			1.61		released
	1	8.98 -0-	0.24	0.240	
	1	9.76 -0-	0.30	0.300	released
	1	9.84 -0-	0.31	0.310	released
	1	10.00 -0-	0.32	0.320	released
	1	10.00 -0-	0.36	0.360	released
	1	10.04 -0-	0.34	0.340	released
	1	10.12 -0-	0.28	0.280	released
	1	10.51 -0-	0.43	0.430	released
	1	11.50 -0-	0.49	0.490	released
	1	11.50 -0-	0.44	0.440	released
	1	12.44 -0-	0.56	0.560	released
Total Numbe	r: 71 N	umber/hr: 71.0	0 Wt:10.17	Wt/hr:10	.170
Micropterus salmoi	des				
largemouth bass			Total	Mean	
	Number	Length Range	Weight	Weight	Disposition
	1	6.65 -0-	0.14	0.140	released
	1	7.28 -0-	0.19	0.190	released
	1	10.91 -0-	0.67	0.670	released
	ī	11.38 -0-	0.66	0.660	released
Total Numbe	r: 4 N	lumber/hr: 4.0	0 Wt: 1.66	Wt/hr: 1	.660
		<u>-</u>			
Lepomis gibbosus					
pumpkinseed			Total	Mean	
	Number	Length Range	Weight	Weight	Disposition
	1	5.39 -0-	0.10	0.100	released
Total Numbe	r: 1 N	/umber/hr: 1.0	0 Wt: 0.10	Wt/hr: 0	.100
- 11 - 11					
Ambloplites rupest	ris				
rock bass			Total	Mean	
	Number	Length Range	Weight	Weight	Disposition
	1	5.47 -0-	0.12	0.120	released
	1	5.87 -0-	0.15	0.150	released
Total Numbe	r: 2 N	umber/hr: 2.0	0 Wt: 0.27	Wt/hr: 0	.270
Micropterus dolomi	eui				
smallmouth bass			Total	Mean	
	Number	Length Range	Weight	Weight	Disposition
	2	3.43 3.74	0.04	0.020	released
	î	6.81 -0-	0.11	0.110	released
	i	7.44 -0-	0.17	0.170	preserved
		7.44 -0-	····	0.1,0	Preserved.
Total Numbe	r: 4 N	umber/hr: 4.0	Wt: 0.32	Wt/hr: 0	.320

1990 Electrofishing Summary Lengths in inches and weights in pounds

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spotail shi	ner	Number	Length	Range	Total Weight	Mean Weight	Dispositio
		1	2.95	-0-	-0-	-0-	released
Total	Number	r: 1 N	lumber/h	r: 1.0	Wt: 0.00	Wt/hr: 0	.000
	yprinus	Number	Length	Range	Total Weight	Mean Weight	Dispositio
Carpiodes c quillback	yprinus	Number	Length	Range			Disposition released

Total for 1990- 2 Number: 130 Number/hr: 130.00 Wt: 30.8 Wt/hr: 30.81

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Pomoxis nig		atus			Total	Mean	
black crapp	16	Number	Length	Range	Weight	Weight	Disposit
		1	7.95	-0-	0.25	0.250	released
Total	Numbe	r: 1 N	lumber/h	r: 1.0	Wt: 0.25	Wt/hr: 0	.250
Lepomis mac	rochiru	s					
bluegill					Total	Mean	
		Number	Length	Range	Weight	Weight	Disposit
		3	1.61	1.85	-0-	-0-	released
		1	2.76	-0-	0.01	0.010	released
		1	3.46	-0-	0.03	0.030	released
		1	4.02	-0-	0.05	0.050	released
		1	5.31	-0-	0.09	0.090	released
		1	5.39	-0-	0.11	0.110	released
		1	5.47	-0-	0.13	0.130	released
		1	5.91	-0-	0.16	0.160	released
		1	6.46	-0-	0.23	0.230	released
Total	Numbe	r: 11 N	lumber/h	r: 11.0	Wt: 0.81	Wt/hr: 0	.810
Cyprinus ca	rpio						
carp				_	Total	Mean	
		Number	Length	Range	Weight	Weight	Disposit
		1	14.17	-0-	1.49	1.490	released
		1	14.25	-0-	1.46	1.460	released
		1	14.69	-0-	1.45	1.450	released
		1	14.72	-0-	1.54	1.540	released
		1	15.71	-0-	1.78	1.780	released
		1	15.94	-0-	1.85	1.850	released
		1	16.57	-0-	2.04	2.040	released
		· 1	17.09	-0-	2.44	2.440	released
		1	17.52	-0-	2.41	2.410	released
		1	18.98	-0-	3.22	3.220	released
		1	21.30	-0-	4.27	4.270	released
		1	22.01	-0-	5.40	5.400	released
		1	-0-	-0-	3.04	3.040	released
Total	Numbe	r: 13 N	/umber/h	r: 13.0	Wt:32.39	Wt/hr:32	.390
Ictalurus p		8					
channel cat	fish	Number	Length	Range	Total Weight	Mean Weight	Disposit
						<u> </u>	
		1	15.75	-0-	1.57	1.570	released

Total	Numbe	r: 1	Number/h	r: 1.0	Wt: 1.57	Wt/hr: 1	.570
Aplodinotus		ens		-			
freshwater o	irum	Numbe	r Length	Pance	Total Weight	Mean Weight	Disposition
		- Tumbe		Range			
		1	-0-	-0-	0.09	0.090	dead
Total	Numbe	r: 1	Number/h	1.0	Wt: 0.09	Wt/hr: 0	. 090
Lepomis cya							
green sunfi	sh				Total	Mean	Disposition
		Numbe	r Length	Kange	Weight	Weight	Disposicion
		1	1.97	-0-	-0-	-0-	released
		1	5.35	-0-	0.11	0.110	released
		1	5.39	-0-	0.12	0.120	released
		1	5.63	-0-	0.13	0.130	released
Total	Numbe	r: 4	Number/h	: 4.0	Wt: 0.36	Wt/hr: 0	.360
Dorosoma ce	edianu	m					
gizzard shad	1				Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposition
		2	5.59	5.87	0.14	0.070	dead
		ī	9.37	-0-	0.27	0.270	dead
Total	Numbe	r: 3	Number/h	: 3.0	Wt: 0.41	Wt/hr: 0	.410
Micropterus	salmoi	des					
largemouth 1					Total	Mean	
-		Numbe	r Length	Range	Weight	Weight	Disposition
		1	7.95	-0-	0.22	0.220	released
Total	Numbe	r: 1	Number/h	: 1.0	Wt: 0.22	Wt/hr: 0	.220
Lepomis mic	rolophu	a					
redear sunf					Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposition
		1	3.70	-0-	0.04	0.040	released
Total	Numbe	r: 1	Number/h	: 1.0	Wt: 0.04	Wt/hr: 0	.040
Carpiodes ca	rpio						
river carps					Total	Mean	
	· · · · · · ·	Numbe	r Length	Range	Weight	Weight	Disposition
		1	13.62	-0-	1.08	1.080	released
Total	Numbe	r: 1	Number/h	: 1.0	Wt: 1.08	Wt/hr: 1	.080

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Notropis blennius river shiner	Number	Length 1	Range	Total Weight	Mean Weight	Disposition
	1	2.40	-0-	-0-	-0-	preserved

		-		•	-	•
Total	Number	: 1	Number/hr: 1.0	Wt: 0.00	Wt/hr: 0	0.000
Carpiodes cy quillback	-	Numbe	r Length Range	Total Weight	Mean Weight	Disposition
		1	12.32 -0-	0.77	0.770	released
Total	Number	: 1	Number/hr: 1.0	Wt: 0.77	Wt/hr: (.770

Total for 1990- 3 Number: 39 Number/hr: 39.00 Wt:38.0 Wt/hr:37.99

Pomoxis night black crapp:								otal	Mear		
		Numb	er	Length	Ra	inge	W	eight	Weigh	ıt.	Dispos
		1		7.05	-0	1-		0.16	0.16	50	release
Total	Number	: 1	N	umber/h	r:	2.1	Wt:	0.16	Wt/hr:	٠.	340
Lepomis mac	ochirus	3									-
bluegill		Mumb		7b	ъ-			otal	Mear		D4
		Numbe	Br	Length	ка	nge	- w	eight	Weigh		Disposi
		1		5.39	-0			0.13	0.13		release
		1		5.63	-0	ı -		0.16	0.16	50	release
Total	Number	: 2	N	umber/h	r:	4.3	Wt:	0.29	Wt/hr:	٥.	617
Cyprinus car	pio										
carp					_			otal	Mear		
		Numb	er —	Length	Ra	.nge	W	eight	Weigh	it —	Dispos:
		1		14.25	-0) —		1.21	1.21	.0	release
		1		14.37	-0			1.54	1.54		release
		1		17.95	-0			2.82	2.82	0	release
Total	Number	: 3	N	umber/h	r:	6.4	Wt:	5.57	Wt/hr:	11.	851
Ictalurus pu											
channel cati	ish				_			otal	Mean		
		Numbe	er	Length	Ra	nge	W	eight	Weigh	t	Disposi
		1		10.51	-0	-		0.34	0.34	0	release
Total	Number	: 1	Nı	umber/h	r:	2.1	Wt:	0.34	Wt/hr:	0.	723
Notropis ath	erinoi	les									
emerald shir	er							otal	Mean		
		Numbe	er	Length	Ra	nge	W	ight	Weigh	t	Disposi
		35		1.85	3	.70		0.18	0.00	5	release
Total	Number	: 35	N	umber/h	r:	74.5	Wt:	0.18	Wt/hr:	٥.	383
Lepomis cyar	ellus										
green sunfis								tal	Mean		
		Numbe	er	Length	Ra	nge	We	ight	Weigh	t	Disposi
		1		2.72	-0			0.01	0.01	0	release
		ī		3.54	-0			0.03	0.03		release

Total	Number:	2	Number/hr:	4.3	Wt:	0.04	Wt/hr:	0.085
Dorosoma ce								
gizzard shad						otal	Mean	
	Ni 	ımbe	r Length Ra	nge	W	eight	Weight	Disposition
		1	5.00 -0	-		0.04	0.040	released
		1	8.15 -0	-		0.21	0.210	released
Total	Number:	2	Number/hr:	4.3	Wt:	0.25	Wt/hr:	0.532
Micropterus	salmoide	3						
largemouth h	ass					otal	Mean	
	N	ımbe:	r Length Ra	nge	We	eight	Weight	Disposition
		1	6.89 -0	_		0.14	0.140	
		1	8.43 -0	-		0.30	0.300	released
		1	9.25 -0	-		0.42	0.420	released
Total	Number:	3	Number/hr:	6.4	Wt:	0.86	Wt/hr:	1.830
Carpiodes ca	rpio							
river carps					T	otal	Mean	
	N	mbe	r Length Ra	nge	W	eight	Weight	Disposition
	_	1	13.35 -0	_		1.04	1.04	
		1	13.66 -0	-		1.07	1.07	released
Total	Number:	2	Number/hr:	4.3	Wt:	2.11	Wt/hr:	4.489
Ictiobus bul	alus							
smallmouth h					T	otal	Mean	
	Nu	ımbe	r Length Ra	nge	We	eight	Weight	Disposition
		1	14.69 -0	-		1.53	1.530	released
Total	Number:	1	Number/hr:	2.1	Wt:	1.53	Wt/hr:	3.255
Morone chrys	ops							
white bass	-				To	otal	Mean	
	Nu	ımbe	r Length Ra	nge	We	eight	Weight	Disposition
		1	9.88 -0	-		0.43	0.430	
		1	11.42 -0	-		0.71	0.71	released
Total	Number:	2	Number/hr:	4.3				

Total for 1990- 4 Number: 54 Number/hr:114.89 Wt:12.5 Wt/hr:26.53

Pomoxis nig		tus					
black crapp	ie	Numbe	r Length	Range	Total Weight	Mean Weight	Disposit
		1	5.83 6.26	-o- -o-	0.09		
Total	Number	: 2	Number/h	: 3.6	Wt: 0.20	Wt/hr:	0.364
Leponis mac	rochirus	3					
bluegill		Numbe	r Length	Range	Total Weight	Mean : Weight	Dispositi
		1	1.34	-0-	-0-	-0-	released
		3	1.65	2.01	0.01		
		2 3	2.83 3.82	2.99 3.82	0.04		
Total	Number	: 9	Number/hr	: 16.4	Wt: 0.17	Wt/hr:	0.309
Pimephales	notatus						
bluntnose m	innow	Numbe	r Length	Range	Total Weight	Mean Weight	Dispositi
		7	1.38	1.89	0.01	0.001	preserved
		1	1.54	-0-	-o- -o-	-o-	released preserved
Total	Number	: 9	Number/hr	: 16.4	Wt: 0.01	Wt/hr:	0.018
Cyprinus ca	rpio						
carp		Numbe	r Length	Pango	Total Weight	Mean Weight	Dispositi
			- Deligui	Kange	Weight	- Helghi	Dispositi
		1	11.89	-0-	0.80		
		1	15.47	-0-	1.42		
		1	18.23 18.43	-0- -0-	2.67 2.94		
		: 4	Number/hr	: 7.3	Wt: 7.83	Wt/hr:1	4.236
Total	Number						
Ictalurus p	unctatus	,					
	unctatus	Numbe	r Length	Range	Total Weight	Mean Weight	Dispositi
Ictalurus p	unctatus	Numbe	15.94	-0-	Weight 1.28	Weight 1.280	released
Ictalurus p	unctatus	Numbe		<u>_</u>	Weight	Weight 1.280	released

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Notropis at		des				**	
emerald shir	ner	Number	Length	Range	Total Weight	Mean Weight	Disposition
		8	1.54	2.17	0.01		preserved preserved
Total	Numbe	r: 11	Number/h	r: 20.0	Wt: 0.04	Wt/hr: 0	.073
Lepomis cyan			-				
green sunfi	sh	Number	Length	Range	Total Weight	Mean Weight	Disposition
		1	1.57	-0-	-0-	-0-	released
		1	2.32	-0-	-0-	-0-	released
		2	2.32	2.60	0.02		released
		1	3.62	-0-	0.04	0.040	released
Total	Numbe	r: 5	Number/h	r: 9.1	Wt: 0.06	Wt/hr: 0	.109
Dorosoma ce	pedianu	m					
gizzard shad	i	Number	Tenath	Range	Total Weight	Mean Weight	Dispositio
		- Trumber	- Deriger	Kange	werdire		Dispositio
		10	3.43	5.00	0.37	0.037	dead
		5	7.09	7.68	0.79	0.158	dead
		4	9.25	10.16	1.27	0.317	dead
		3	10.39	11.73	1.02	0.340	released
Total	Numbe	r: 22	Number/h	r: 40.0	Wt: 3.45	Wt/hr: 6	.273
Micropterus	salmoi	des					
largemouth 1					Total	Mean	
		Number	Length	Range	Weight	Weight	Dispositio
		1	3.31	-0-	0.02	0.020	released
		1	3.70	-0-	0.02	0.020	released
		1	8.11	-0-	0.29		released
		ĩ	12.83	-0-	1.21	1.210	released
Total	Numbe:	r: 4	Number/h	ır: 7.3	Wt: 1.54	Wt/hr: 2	.800
Ictiobus bul	balus						
smallmouth 1	buffalo				Total	Mean	
		Number	Length	Range	Weight	Weight	Dispositio
		1	8.46	-0-	0.25	0.250	released
Total	Numbe	r: 1	Number/h	r: 1.8	Wt: 0.25	Wt/hr: 0	.455
Micropterus	dolomi	eui					
smallmouth 1	bass				Total	Mean	
		Number	Length	Range	Weight	Weight	Dispositio
		1	9.37	-0-	0.31	0.310	released

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Total	Number	r: 1	Number/h	r: 1.8	Wt: 0.31	Wt/hr: 0	. 564
Carpiodes co	yprinus				Total	Mean	
		Number	Length	Range	Weight	Weight	Disposition
		1	11.50	-0-	0.52	0.520	released
Total	Number	: 1	Number/h	r: 1.8	Wt: 0.52	Wt/hr: 0	.945
Perca flave							
Aerrom berci		Number	Length	Range	Total Weight	Mean Weight	Disposition
yellow perch		Number	Length 4.88	Range			Disposition released
yellow pelci					Weight	Weight	

Total for 1990- 5 Number: 73 Number/hr:132.73 Wt:18.0 Wt/hr:32.80

				_			
Cyprinus car carp	•	umber	Length	Range	Total Weight	Mean Weight	Dispositio
		1	11.81	-0-	0.80	0.800	released
Total	Number:	1 1	Number/hr	: 3.1	Wt: 0.80	Wt/hr: 2	.500
Ictalurus pu	nctatus						
channel catf	ish				Total	Mean	
	N	umber	Length	Range	Weight	Weight	Disposition
		1	8.86	-0-	0.20	0.200	released
		1	13.58	-0-	0.85	0.850	released
		1	16.73	-0-	1.35	1.350	released
		1	21.65	-0-	2.85	2.850	released
Total	Number:	4 1	Number/hr	: 12.5	Wt: 5.25	Wt/hr:16	.406
Notropis ath		8					
emerald shin					Total	Mean	
	N	umber	Length	Range	Weight	Weight	Disposition
		1	2.76	-0-	-0-	-0-	preserved
Total	Number:	1 1	Number/hr	: 3.1	Wt: 0.00	Wt/hr: 0	. 000
Dorosoma cep	edianum				•		
					Total	Mean	
	l	umber	Length	Range	Total Weight	Mean Weight	Dispositio
Dorosoma cep gizzard shad	l	umber		Range			Disposition
	l		Length 4.13 4.72		Weight	Weight	
Dorosoma cep gizzard shad	l	1	4.13	-0-	Weight 0.02	Weight 0.020	released
	l	1	4.13	-0- -0-	0.02 0.05	0.020 0.050	released released
	l	1 1 1	4.13 4.72 4.72	-0- -0- -0-	0.02 0.05 0.04	0.020 0.050 0.040	released released released
	l	1 1 1 1	4.13 4.72 4.72 5.12 6.10	-0- -0- -0- -0-	0.02 0.05 0.04 0.05	0.020 0.050 0.040 0.050	released released released released
	l	1 1 1 1 1 1	4.13 4.72 4.72 5.12	-0- -0- -0- -0- -0-	0.02 0.05 0.04 0.05 0.08	0.020 0.050 0.040 0.050 0.080	released released released released released
	l	1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81	-0- -0- -0- -0- -0-	0.02 0.05 0.04 0.05 0.08 0.12	0.020 0.050 0.040 0.050 0.080 0.120	released released released released released released
	l	1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09	-0- -0- -0- -0- -0- -0-	0.02 0.05 0.04 0.05 0.08 0.12 0.12	0.020 0.050 0.040 0.050 0.080 0.120 0.120	released released released released released released
	l	1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93	-0- -0- -0- -0- -0- -0- -0-	Weight 0.02 0.05 0.04 0.05 0.08 0.12 0.12 0.13	0.020 0.050 0.040 0.050 0.080 0.120 0.120 0.130	released released released released released released released
	l	1 1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.09 7.48	-0- -0- -0- -0- -0- -0- -0- -0-	Weight 0.02 0.05 0.04 0.05 0.08 0.12 0.12 0.13 0.13 0.14	0.020 0.050 0.040 0.050 0.080 0.120 0.120 0.130 0.130 0.140	released released released released released released released released
	l	1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.09	-0- -0- -0- -0- -0- -0- -0- -0- -0-	0.02 0.05 0.04 0.05 0.08 0.12 0.12 0.13	Weight 0.020 0.050 0.040 0.050 0.080 0.120 0.120 0.130 0.130	released released released released released released released released
	l	1 1 1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.48 7.52	-0- -0- -0- -0- -0- -0- -0- -0- -0- -0-	0.02 0.05 0.04 0.05 0.08 0.12 0.13 0.13 0.13	0.020 0.050 0.040 0.050 0.080 0.120 0.120 0.130 0.130 0.140	released released released released released released released released released released
	l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.09 7.48 7.52 7.52	-0- -0- -0- -0- -0- -0- -0- -0- -0- -0-	0.02 0.05 0.04 0.05 0.08 0.12 0.13 0.14 0.15	0.020 0.050 0.040 0.050 0.080 0.120 0.130 0.130 0.140 0.150	released released released released released released released released released released
	l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.48 7.52 7.52 7.68	-0- -0- -0- -0- -0- -0- -0- -0- -0- -0-	Weight 0.02 0.05 0.04 0.05 0.08 0.12 0.13 0.13 0.13 0.15 0.16	Weight 0.020 0.050 0.040 0.0550 0.080 0.120 0.130 0.130 0.140 0.150 0.160	released released released released released released released released released released released
	l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.48 7.52 7.52 7.68	-0- -0- -0- -0- -0- -0- -0- -0- -0- -0-	Weight 0.02 0.05 0.04 0.05 0.08 0.12 0.12 0.13 0.14 0.15 0.16 0.16 0.18	Weight 0.020 0.050 0.040 0.050 0.120 0.130 0.130 0.130 0.140 0.150 0.160 0.180	released released released released released released released released released released released released released
	l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.48 7.52 7.68 7.68 7.87	-0- -0- -0- -0- -0- -0- -0- -0- -0- -0-	Weight 0.02 0.05 0.04 0.05 0.08 0.12 0.13 0.13 0.14 0.15 0.16 0.16 0.18	Weight 0.020 0.050 0.040 0.050 0.120 0.120 0.130 0.140 0.150 0.160 0.160 0.180	released released released released released released released released released released released released released released
	l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.13 4.72 4.72 5.12 6.10 6.81 6.93 7.09 7.48 7.52 7.52 7.68 7.68 7.68 7.87	-0- -0- -0- -0- -0- -0- -0- -0- -0- -0-	Weight 0.02 0.05 0.04 0.05 0.08 0.12 0.13 0.13 0.14 0.15 0.16 0.18 0.18 0.20	Weight 0.020 0.050 0.040 0.050 0.120 0.130 0.130 0.140 0.150 0.160 0.160 0.180 0.200	released released released released released released released released released released released released released released released released released released released

-	Ia				ing Summary Weights in r	ounds	Page A- 1
		1	9.06	-0-	0.28	0.280	released
		1	9.13	-0-	0.25	0.250	released
		i	9.25	-0-	0.25	0.300	released
		i	9.45	-0-	0.30	0.300	released
		ī	9.65	-0-	0.32	0.320	released
		î	9.88	-0-	0.30	0.300	released
Total	Number	: 25	Number/h	r: 78.	l Wt: 4.37	Wt/hr:13	.656
Carpiodes c							
river carps					Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposit
		1	12.80	-0-	0.90	0.900	released
Total	Number	: 1	Number/h	r: 3.1	Wt: 0.90	Wt/hr: 2	.813
Alosa chrys	ochloris						
skipjack ĥe					Total	Mean	
	1	Numbe	r Length	Range	Weight	Weight	Disposit
		1	3.78	-0-	0.01	0.010	preserve
Total	Number	: 1	Number/h	r: 3.1	Wt: 0.01	Wt/hr: 0	.031
Total Micropterus			Number/h	r: 3.1	- :	Wt/hr: 0	.031
	dolomie		Number/h	r: 3.1	Total	Wt/hr: 0	.031
Micropterus	dolomie				- :		
Micropterus	dolomie	ui			Total	Mean	
Micropterus	dolomie	ui Numbe	r Length	Range	Total Weight 0.35	Mean Weight	Disposit.
Micropterus smallmouth Total Dorosoma pe	dolomie bass Number	ui Numbe	r Length	Range	Total Weight 0.35	Mean Weight 0.350	Disposit.
Micropterus smallmouth Total	dolomie bass Number tenense	ui Numbe	r Length 9.65 Number/h	Range -0- r: 3.1	Total Weight 0.35 Wt: 0.35	Mean Weight 0.350 Wt/hr: 1	Disposit.
Micropterus smallmouth Total Dorosoma pe	dolomie bass Number tenense	ui Numbe	r Length 9.65 Number/h	Range -0- r: 3.1	Total Weight 0.35	Mean Weight 0.350	Disposit: released
Micropterus smallmouth Total Dorosoma pe	dolomie bass Number tenense	ui Numbe	r Length 9.65 Number/h	Range -0- r: 3.1	Total Weight 0.35 Wt: 0.35	Mean Weight 0.350 Wt/hr: 1	Disposit.
Micropterus smallmouth Total Dorosoma pe	dolomie bass Number tenense	Numbe	r Length 9.65 Number/h	Range -0- r: 3.1	Total Weight 0.35 Wt: 0.35 Total Weight	Mean Weight 0.350 Wt/hr: 1 Mean Weight	Disposit released

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ection 1990- ver mile 240.		lls Is 0.9		on dat	e: 09/10/9	0 Run =	0.67 hrs
Lepomis macı bluegill					Total	Mean	D
		Number	Length Ra	inge	Weight	Weight	Dispos
		1	5.51 -0)-	0.13	0.130	release
Total	Number	: 1	Number/hr:	1.5	Wt: 0.13	Wt/hr: 0	. 194
Notropis ath	erinoid	es					
emerald shir		Number	Length Ra	inge	Total Weight	Mean Weight	Disposi
		3	2.05	3.07	0.03	0.010	preserv
		1	2.83 -0		-0-	-0-	preserv
		1	3.23 -0)-	-0-	-0-	preserv
Total	Number	: 5	Number/hr:	7.5	Wt: 0.03	Wt/hr: 0	.045
green sunfis		Number 1	Length Ra	<u> </u>	Weight 0.01	Weight 0.010	Disposi
Total	Number	: 1	Number/hr:	1.5	Wt: 0.01	Wt/hr: 0	.015
Dorosoma cer	edianum						
gizzard shad		Number	Length Ra	inge	Total Weight	Mean Weight	Dispos
		1	4.65 -0)-	0.05	0.050	release
		1	6.69 -0) –	0.05	0.050	release
		1	6.93 -0)-	0.14	0.140	release
		1	7.01 -0		0.12	0.120	release
		1	7.09 -0		0.14	0.140	release
		1	7.20 -0		0.13	0.130	release
		1	7.20 -0		0.13	0.130	release
		1	7.28 -0		0.25	0.250	release
		1	7.48 -0		0.25	0.250	release
		1	7.52 -0		0.13	0.130	release
		1	7.64 -0		0.16	0.160	release
		1	11.42 -0 12.83 -0		0.52 0.55	0.520 0.550	release
			12.83 -(0.55	0.550	release
Total	Number	: 13	Number/hr:	19.4	Wt: 2.62	Wt/hr: 3	.910
Carpiodes ve					mata?	Voor	
					Total	Mean	

1990 Electrofishing Summary Lengths in inches and weights in pounds

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	Der	igens i	in inches and we	rights in p	ounus	
		1	12.20 -0-	0.80	0.800	dead
Total	Number	: 1 N	Number/hr: 1.5	Wt: 0.80	Wt/hr: 1.	. 194
Carpiodes ca						
river carps				Total	Mean	
	1	Number	Length Range	Weight	Weight	Disposition
		1	10.35 -0-	0.44	0.440	dead
		ī	13.31 -0-	1.05	1.050	dead
		1	13.58 -0-	1.05	1.050	released
Total	Number	3 h	Number/hr: 4.5	Wt: 2.54	Wt/hr: 3	.791
Ictiobus bub	alus					
smallmouth h	uffalo			Total	Mean	
	ŀ	lumber	Length Range	Weight	Weight	Disposition
	' <u>-</u>	1	13.07 -0-	1.15	1.150	released
		ī	14.06 -0-	1.28	1.280	released
		1	14.17 -0-	1.40	1.400	released
		1	14.88 -0-	1.62	1.620	released
		1	15.12 -0-	1.55	1.550	released
		1	15.16 -0-	1.73	1.730	released
		1	16.73 -0-	2.28	2.280	released
Total	Number	7 1	Number/hr: 10.4	Wt:11.01	Wt/hr:16	. 433
Alosa chryso						
skipjack her		Number	Length Range	Total Weight	Mean Weight	Dispositio
		1	4.25 -0-	0.02	0.020	released
Total	Number	1 N	Number/hr: 1.5	Wt: 0.02	Wt/hr: 0.	.030

Total for 1990- 7 Number: 32 Number/hr: 47.76 Wt:17.2 Wt/hr:25.61

Ictiobus cyp:	rinell	us							
bigmouth buf						7	otal	Mean	
-		Num	ber	Length	Range		Weight	Weight	Disposi
			1	15.75	-0-	_	2.33	2.330	release
			1	15.75	-0-		2.50	2.500	release
			ī	16.10	-0-		2.75	2.750	release
			1	16.18	-0-		2.52	2.520	release
			1	16.85	-0-		2.70	2.700	release
			1	17.32	-0-		2.80	2.800	release
			1	20.87	-0-		5.00	5.000	release
Total	Number	r: '	7	Number/h	: 10.	4 Wt	20.60	Wt/hr:3	0.746
Lepomis macro	ochiru	9							
bluegill							otal	Mean	
		Num	ber	Length	Range		Weight	Weight	Disposi
			1	3.54	-0-		0.01	0.010	release
			2	4.25	4.53		0.13	0.065	release
			1	6.26	-0-		0.20	0.200	release
Total	Number	r:	4	Number/h	r: 6.	0 Wt	0.34	Wt/hr:	0.507
Cyprinus car	oio								
carp						7	otal	Mean	
•		Num	ber	Length	Range	1	Weight	Weight	Disposi
			1	23.35	-0-		5.20	5.200	release
Total	Number	r:	1	Number/h	: 1.	5 Wt:	5.20	Wt/hr:	7.761
Ictalurus pur		8				_			
channel catf:	ısh						otal	Mean	D1 1
		Num	ber	Length	Range	,	<i>l</i> eight	Weight	Disposi
			ı	12.99	-0-	_	0.62	0.620	release
Total	Number	r:	1	Number/h	r: 1.	5 Wt:	0.62	Wt/hr:	0.925
Aplodinotus	amunn 1	000							·····
freshwater d	71 W 111	-110				-	otal	Mean	
		Num	her	Length	Range		leight	Weight	Disposi
		27 02.00							
			1	7.24	-0-		0.17	0.170	release
			i	9.25	-0-		0.35	0.350	release

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Dorosoma ce	oedianu	m						
gizzard shad					To	otal	Mean	
J		Number	Length	Range		aight	Weight	Disposition
		4	2.80	2.99		0.03	0.007	released
		107	3.15	3.98		1.95	0.018	released
		11	3.66	4.33		0.24	0.022	released
Total					774.			
Total	Numbe	F:122 I	Number/h	F:182.1	WC:	2.22	Wt/hr: 3	.313
Micropterus largemouth 1		des			Tr.	otal	Mean	
rargemouth i	Jass	Number	Length	Range		eight	Weight	Disposition
		1	12.20	-0-	_	1.16	1.160	released
Total	Numbe	r: 1 1	Number/h	r: 1.5	Wt:	1.16	Wt/hr: 1	.731
Ictiobus bul	oalus							
smallmouth h	ouffalo				T	otal	Mean	
		Number	Length	Range		eight	Weight	Disposition
		1	12.56	-0-		1.06	1.060	released
		1	13.39	-0-		1.10	1.100	released
		1	13.82	-0-		1.32	1.320	released
		1	13.82	-0-		1.30	1.300	released
		ī	14.65	-0-		1.45	1.450	released
		ī	16.38	-0-		2.60	2.600	released
		ī	16.69	-0-		2.50	2.500	released
Total	Numbe	r: 7 1	Number/h	r: 10.4	Wt:	11.33	Wt/hr:16	.910
Alosa chrys		s						
skipjack her	rring				T	otal	Mean	
		Number	Length	Range	We	ight	Weight	Disposition
		2	3.23	4.17		0.03	0.015	released
Total	Numbe	r: 2 h	lumber/h	r: 3.0	Wt:	0.03	Wt/hr: 0	. 045
Dorosoma per	tenense							
threadfin sl	nad				To	otal	Mean	
		Number	Length	Range	We	eight	Weight	Disposition
		4	3.31	3.74		0.08	0.020	released
Total	Numbe	r: 4 l	(umber/h	r: 6.0	Wt:	0.08	Wt/hr: 0	.119
Morone chrys	sops				-			
white bass						otal	Mean	
		Number	Length	Range	We	ight	Weight	Disposition
		1	4.41	-0-		0.02	0.020	released
		1	10.83	-0-		0.65	0.650	released
		1	10.87	-0-		0.68	0.680	released
		1	11.93	-0-		0.87	0.870	released
		1	12.32	-0-		1.00	1.000	released

1990 Electrofishing Summary Lengths in inches and weights in pounds

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13.50 -0- 1.30 1.300 released

Total Number: 6 Number/hr: 9.0 Wt: 4.52 Wt/hr: 6.746

Total for 1990- 8 Number: 158 Number/hr: 235.82 Wt: 48.8 Wt/hr: 72.87

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Collection 1990- 9 Hennepin Island
River mile 207.5 to 208.1 Collection date: 09/11/90 Run = 0.30 hrs

Dorosoma cer gizzard shad		Number	Length :	Range	Total Weight	Mean Weight	Disposition
		1	3.62	-0-	0.01	0.010	released
Total	Number	: 1 N	umber/hr	: 3.3	Wt: 0.01	Wt/hr: 0.	. 033
Morone chrys white bass	ops	Number	Length :	Range	Total Weight	Mean Weight	Disposition
		1	10.28	-0-	0.50	0.500	released
Total	Number	: 1 N	umber/hr		Wt: 0.50	Wt/hr: 1.	667

Total for 1990- 9 Number: 2 Number/hr: 6.67 Wt: 0.5 Wt/hr: 1.70

Collection 1990-10 Upper Twin Sisters River mile 203.0 to 203.5 Collection date: 09/11/90 Run = 0.46 hrs Ictiobus cyprinellus bigmouth buffalo Total Mean Number Length Range Weight Weight Disposition 1 21.81 -0-5.20 5.200 released Total Wt: 5.20 Wt/hr:11.304 Number: 1 Number/hr: 2.2 Lepomis macrochirus bluegill Total Mean Disposition Number Length Range Weight Weight -0-0.02 0.020 released 1 3.78 Total Number: Wt/hr: 0.043 1 Number/hr: 2.2 Wt: 0.02 Cyprinus carpio carp Total Mean Number Length Range Weight Weight Disposition 1.70 1.700 1 15.47 -0released Total Number: 1 Number/hr: 2.2 Wt: 1.70 Wt/hr: 3.696 Dorosoma cepedianum gizzard shad Total Mean Disposition Number Length Range Weight Weight 3.50 3.86 0.15 0.019 released Total Number: Number/hr: 17.4 Wt: 0.15 Wt/hr: 0.326 Carpiodes carpio river carpsucker Total Mean Number Disposition Length Range Weight Weight 1 3.23 -0--0--0released Total 1 Number/hr: 2.2 Wt: 0.00 Wt/hr: 0.000 Number: Ictiobus bubalus Total smallmouth buffalo Mean Number Weight Weight Disposition Length Range 8.86 -0-0.40 0.400 released 1 1 12.05 -0-0.90 0.900 released ī 12.72 1.00 1.000 released -0ī 12.95 -0-1.27 1.270 released ī 1.20 13.27 -0-1.200 released

15.98

-0-

2.43

2.430

released

1990 Electrofishing Summary Lengths in inches and weights in pounds

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		ength	In inche	s and we	ignts in	pounus	
		1	16.22	-0-	2.60	2.600	released
Total	Number	r: 7	Number/h	r: 15.2	Wt: 9.80	Wt/hr:21	.304
Morone saxa		M. ch	rysops				
striped bas	s	Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
		1	9.06 11.22	-0- -0-	0.35	0.350 0.700	released released
Total	Number	r: 2	Number/h	r: 4.3	Wt: 1.05	Wt/hr: 2	. 283
Alosa chrys skipjack he		Numbe	Length	Range	Total Weight	Mean Weight	Disposition released
Total	Number				Wt: 0.05	Wt/hr: 0	
Morone chry	sops						
white bass		Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
		1	4.88	-0-	0.03	0.030	released
		1	11.26	-0-	0.70	0.700	released
		1	11.61	-0-	0.85	0.850	released
		1	12.95	-0-	1.28	1.280	released
		1	13.27	-0-	1.30	1.300	released
		1	13.43	-0-	1.28	1.280	released
Total	Number	r: 6	Number/h:	r: 13.0	Wt: 5.44	Wt/hr:11	.826

Total for 1990-10 Number: 33 Number/hr: 71.74 Wt:23.4 Wt/hr:50.89

Collection 1990-11	Lower	Twin Sisters	
River mile 202.6 to	203.2	Collection date: 09/11/90	Run = 0.47 hrs

Ictiobus cyp	prinell	us		make:	W	
bigmouth bu	ttalo	Number	Length Range	Total Weight	Mean Weight	Disposition
		1	16.54 -0-	2.50	2.500	released
		1	17.52 -0-	3.60	3.600	released
Total	Numbe	r: 2 l	Number/hr: 4.	3 Wt: 6.10	Wt/hr:12	.979
Lepomis mac	rochiru	s				
bluegill		Number	Length Range	Total Weight	Mean Weight	Disposition
		MUMDEL	Length Kange	Welghe	Weight	Diaposition
		1	5.91 -0-	0.18	0.180	released
		1	6.69 -0-	0.26	0.260	released
Total	Numbe	r: 2 h	Number/hr: 4.	3 Wt: 0.44	Wt/hr: 0	.936
Aplodinotus		ens				
freshwater o	irum			Total	Mean	
		Number	Length Range	Weight	Weight	Dispositio
		1	6.61 -0-	0.12	0.120	released
Total	Numbe	r: 1 h	Number/hr: 2.	l Wt: 0.12	Wt/hr: 0	.255
Moxostoma e		um	•			
golden redho	orse			Total	Mean	
		Number	Length Range	Weight	Weight	Disposition
		1	8.58 -0-	-0-	-0-	released
		1	12.91 -0-	0.82	0.820	released
			13.35 -0-		0.930	released
		1	13.35 -0-	0.93	0.930	
Total	Numbe		13.35 -0- Number/hr: 6.4		Wt/hr: 3	
Total		r: 3 h				
	pedianu	r: 3 h	Number/hr: 6.4	Wt: 1.75	Wt/hr: 3	.723
Dorosoma cej	pedianu	r: 3 h		Wt: 1.75	Wt/hr: 3	.723
Dorosoma cej	pedianu	r: 3 h	Number/hr: 6.4	Wt: 1.75	Wt/hr: 3	.723
Dorosoma ce	pedianu	r: 3 h m Number 3	Number/hr: 6	Total Weight 0.03	Wt/hr: 3 Mean Weight	Disposition released
Dorosoma cen gizzard shad	pedianu i Numbe	r: 3 h Number 3 r: 3 h	Length Range 3.23 3.66	Total Weight 0.03	Wt/hr: 3 Mean Weight 0.010	Disposition released
Dorosoma cep gizzard shad	pedianu	Number Number 3 r: 3 N	Length Range 3.23 3.66 Number/hr: 6.4	Total Weight 0.03 Wt: 0.03	Wt/hr: 3 Mean Weight 0.010 Wt/hr: 0	Disposition released
Dorosoma ce gizzard shad Total Micropterus	pedianu	r: 3 h Number 3 r: 3 h	Length Range 3.23 3.66	Total Weight 0.03	Mean Weight 0.010	Disposition released

	Number	: 1	Number/hr	: 2.1	Wt: 0.70	Wt/hr: 1	.489
Ictiobus bul	balus						
smallmouth					Total	Mean	
	1	Numbe	r Length	Range	Weight	Weight	Disposition
		1	9.76	-0-	0.44	0.440	released
		1	11.02	-0-	0.68	0.680	released
		1		-0-	0.72	0.720	released
		1		-0-	0.75	0.750	released
		1		-0-	0.97	0.970	released
	_	1	13.58	-0-	1.35	1.350	released
Total	Number	: 6	Number/hr	: 12.8	Wt: 4.91	Wt/hr:10	.447
Morone saxat		M. ch	rysops				
striped bass					Total	Mean	
	1	Numbe	r Length	Range	Weight	Weight	Disposition
		1		-0-	0.18	0.180	released
		1		-0-	0.15	0.150	released
	_	1	11.73	-0-	0.92	0.920	released
Total	Number	: 3	Number/hr	: 6.4	Wt: 1.25	Wt/hr: 2	. 660
Alosa chrys	ochloris						
					Total	Mean	
	rring	Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
	rring	Numbe:	Length	Range 3.50			Disposition released
	rring	3		3.50	Weight	Weight	released
skipjack her Total Morone chrys	rring l - Number:	3	3.27	3.50	Weight 0.03	Weight 0.010	released
skipjack ĥen Total	rring l - Number:	3	3.27 Number/hr	3.50	Weight 0.03 Wt: 0.03 Total	Weight 0.010 Wt/hr: 0 Mean	released
skipjack ĥen Total Morone chrys	rring Numbers	3	3.27 Number/hr	3.50	Weight 0.03 Wt: 0.03	Weight 0.010 Wt/hr: 0	released
skipjack ĥen Total Morone chrys	rring Numbers	3 : 3 Number	3.27 Number/hr r Length:	3.50 : 6.4 Range	Weight 0.03 Wt: 0.03 Total Weight 0.07	Weight 0.010 Wt/hr: 0 Mean Weight 0.070	released
skipjack ĥen Total Morone chrys	rring Numbers	3: 3 Number	3.27 Number/hr r Length: 5.31 6.42	3.50 : 6.4 Range	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130	released Disposition released released
skipjack ĥen Total Morone chrys	rring Numbers	3: 3 Number	3.27 Number/hr r Length: 5.31 6.42 6.89	3.50 : 6.4 Range	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13 0.25	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130 0.250	released .064 Disposition
skipjack ĥen Total Morone chrys	rring Numbers	3 Number	3.27 Number/hr r Length: 5.31 6.42 6.89 6.97	3.50 : 6.4 Range	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13 0.25 0.28	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130 0.250 0.280	released Disposition released released released released released
skipjack ĥen Total Morone chrys	rring Numbers	3 Number 1 1 1 1	3.27 Number/hr r Length: 5.31 6.42 6.89 6.97 7.09	3.50 : 6.4 Range -0- -0- -0- -0-	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13 0.25 0.28 0.20	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130 0.250 0.280 0.200	released Disposition released released released released released
skipjack ĥen Total Morone chrys	rring Numbers	3 Number 1 1 1 1 1	3.27 Number/hr r Length: 5.31 6.42 6.89 6.97 7.09 9.17	3.50 : 6.4 Range -0- -0- -0- -0- -0-	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13 0.25 0.28 0.20 0.40	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130 0.250 0.280 0.200 0.400	Disposition released released released released released released released released
skipjack ĥen Total Morone chrys	rring Numbers	3 : 3 Number	3.27 Number/hr r Length: 5.31 6.42 6.89 6.97 7.09 9.17 11.93	3.50 : 6.4 Range -0- -0- -0- -0- -0-	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13 0.25 0.28 0.20 0.40 0.90	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130 0.250 0.280 0.200 0.400 0.900	Disposition released
skipjack ĥen Total Morone chrys	rring Numbers	3 Number	3.27 Number/hr r Length 5.31 6.42 6.89 6.97 7.09 9.17 11.93 12.95	3.50 : 6.4 Range -0- -0- -0- -0- -0- -0- -0-	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13 0.25 0.28 0.20 0.40 0.90 1.12	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130 0.250 0.280 0.200 0.400 0.900 1.120	Disposition released
skipjack ĥen Total Morone chrys	rring Numbers	3 : 3 Number	3.27 Number/hr r Length 5.31 6.42 6.89 6.97 7.09 9.17 11.93 12.95	3.50 : 6.4 Range -0- -0- -0- -0- -0-	Weight 0.03 Wt: 0.03 Total Weight 0.07 0.13 0.25 0.28 0.20 0.40 0.90	Weight 0.010 Wt/hr: 0 Mean Weight 0.070 0.130 0.250 0.280 0.200 0.400 0.900	Disposition released released released released released released released released released

Total for 1990-11 Number: 33 Number/hr: 70.21 Wt:19.8 Wt/hr:42.09

Lepomis macro	ochirus					
bluegill		Number	Length Range	Total Weight	Mean Weight	Dispositi
		Mumber		- Incignic		Disposition
		1	1.77 -0-	-0-	-0-	released
		1	2.24 -0-	-0-	-0-	released
		1	3.19 -0-	0.01	0.010	released released
			5.04 -0-			
Total	Number	: 4 N	umber/hr: 7.8	Wt: 0.11	Wt/hr: 0.	.216
Pimephales vi				Total	Mean	
bulinead mini		Number	Length Range	Weight	Weight	Dispositi
		1	2.17 -0-	-0-	-0-	preserved
		1	2.80 -0-	-0-	-0-	preserved
		1	2.87 -0-	-0-	-0-	preserved
Total	Number	: 3 N	Number/hr: 5.9	Wt: 0.00	Wt/hr: 0	.000
Cyprinus car	pio					
carp				Total	Mean	
		Number	Length Range	Weight	Weight	Dispositi
		1	5.63 -0-	0.10	0.100	released
		1	11.81 -0-	0.75	0.750	released
		1	11.97 -0-	0.78	0.780	released
		1	14.37 -0-	1.50	1.500	released
		1	17.32 -0-	2.45	2.450	released
Total	Number	: 5 N	Number/hr: 9.8	Wt: 5.58	Wt/hr:10	.941
Ictalurus pur				m-+-1	Mean	
channel catf		Number	Length Range	Total Weight	mean Weight	Dispositi
				0.45	0.450	released
		1	11.18 -0- 14.37 -0-	0.45	0.950	released
	Number	: 2 N	Number/hr: 3.9	Wt: 1.40	Wt/hr: 2	.745
Total						
Total Pylodictis o	livaris	l				
			Tourse Dance	Total	Mean	Dienositi
Pylodictis o		Number	Length Range	Weight	Weight	Dispositi
Pylodictis o			Length Range			Dispositi released

Ictiobus bubalus smallmouth buffalo

Number

Length Range

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Aplodinotus grunniens freshwater drum Total Mean Number Length Range Weight Weight Disposition 1 3.27 -0--0--0released 0.020 1 3.46 -0-0.02 released 1 3.74 -0-0.02 0.020 released released 1 12.68 -0-0.90 0.900 Total Number: 4 Number/hr: 7.8 Wt: 0.94 Wt/hr: 1.843 Lepomis cyanellus green sunfish Total Mean Number Length Range Weight Weight Disposition 1 2.17 -0--0--0released 1 2.20 -0--0--0released Wt/hr: 0.000 Total Number: 2 Number/hr: Wt: 0.00 3.9 Dorosoma cepedianum gizzard shad Total Mean Number Length Range Weight Weight Disposition 10 3.15 3.46 0.15 0.015 released Total Number: 10 Number/hr: 19.6 Wt: 0.15 Wt/hr: 0.294 Micropterus salmoides largemouth bass Total Mean Number Length Range Weight Weight Disposition 4.53 1 -0-0.03 0.030 released 1 5.55 -0-0.08 0.080 released 1 13.54 -0-1.37 1.370 released 1 16.22 -0-2.35 2.350 released Total Number: 4 Number/hr: 7.8 Wt: 3.83 Wt/hr: 7.510 Carpiodes carpio river carpsucker Total Mean Number Length Range Weight Weight Disposition -0-0.12 6.10 0.120 released 1 6.93 -0-0.20 0.200 released 1 8.78 -0-0.35 0.350 released 1 10.28 -0-0.50 0.500 released 1 10.79 -0-0.60 0.600 released 1 13.35 -0-1.10 1.100 released 13.90 -0-1.24 1.240 1 released Wt: 4.11 Total Number: 7 Number/hr: 13.7 Wt/hr: 8.059

Total

Weight

Mean

Weight

Disposition

May 1991	Len				g Summary ights in p	ounds	Page A- 30
		1	4.84	-0-	0.05	0.050	released
		ī	5.79	-0-	0.12	0.120	released
		ī	5.79	-0-	0.10	0.100	released
		1	6.89	-0-	0.26	0.260	released
		ĩ	7.32	-0-	0.19	0.190	released
		1	8.86	-0-	0.30	0.300	released
Total	Number:	6 N	lumber/hi	r: 11.8	Wt: 1.02	Wt/hr: 2	.000
Morone chrys	ops						
white bass				_	Total	Mean	21141
	N	umber	Length	Range	Weight	Weight	Disposition
		1	2.99	-0-	0.03	0.030	released
		1	3.70	-0-	0.02	0.020	released
		1	3.82	-0-	0.02	0.020	released
		1	5.12	-0-	0.06	0.060	released
Total	Number:	4 N	lumber/h	7.8	Wt: 0.13	Wt/hr: 0	.255
Pomoxis annu white crappi					Total	Mean	
		umber	Length	Range	Weight	Weight	Disposition
		1	2.83	-0-	-0-	-0-	released
Total	Number:	1 N	Number/h	r: 2.0	Wt: 0.00	Wt/hr: 0	.000

Total for 1990-12 Number: 53 Number/hr:103.92 Wt:19.2 Wt/hr:37.59

Ictiobus cyprin	nel lug						
bigmouth buffal	lo	mber	Length	Dance	Total Weight	Mean Weight	Disposition
		mber	Length	Range			
	_	1	14.80	-0-	2.10	2.100	released
Total Nu	mber:	1 N	lumber/h	r: 1.5	Wt: 2.10	Wt/hr: 3	.231
Lepomis macroch	nirus						
bluegill					Total	Mean	
	Nu	mber	Length	Range	Weight	Weight	Disposition
		6	1.65	2.56	0.03	0.005	released
		10	3.15	4.37	0.40	0.040	released
		4	4.53	5.67	0.40		released
		1	5.71	-0-	0.14		released
		1	6.14	-0-	0.19	0.190	released
Total Nu	mber:	22 N	lumber/h	r: 33.8	Wt: 1.10	Wt/hr: 1	.785
Cyprinus carpic	•						
carp					Total	Mean	
	Nu	mber	Length	Range	Weight	Weight	Disposition
		1	4.88	-0-	0.05	0.050	released
		1	8.03	-0-	0.26	0.260	released
		1	12.64	-0-	0.96	0.960	released
		1	12.80	-0-	1.37	1.370	released
		1	13.19	-0-	1.15		released
		1	15.12	-0-	1.80		released
		1	16.97	-0-	2.10		released
		1	18.39	-0-	3.20		released
		1	23.66	-0-	5.30	5.300	released
Total Nu	umber:	9 N	umber/h	r: 13.8	Wt:16.19	Wt/hr:24	.908
Ictalurus punct							
channel catfish	1				Total	Mean	
	Nu	mber	Length	Range	Weight	Weight	Disposition
		1	12.68	-0-	0.70	0.700	released
		1	14.57	-0-	0.97	0.970	released
Total Nu	mber:	2 N	umber/h	r: 3.1	Wt: 1.67	Wt/hr: 2	. 569
Notropis atheri	noides	,					
emerald shiner					Total	Mean	
	Nu	mber	Length	Range	Weight		Disposition
		1	1.54	-0-	-0-	-0-	procomina
		1	1.54	-0-	-0-	-0-	preserved

Total	Number	r: 1 1	Number/hr:	1.5	Wt:	0.00	Wt/hr:	0.000)
Aplodinotus	grunnie	ens							,
freshwater					To	otal	Mean		
		Number	Length R	ange	We	ight	Weight	t Di	ispositio
		1	3.03 -	·o-		0.01	0.010		leased
		6		3.74		0.09	0.01		eleased
		ĭ		0-		0.02	0.02		eleased
		ī		·o-		0.06	0.06		eleased
		ī		·o-		0.10	0.10		leased
		ī		·o-		0.11	0.11		eleased
		ī		·o-		0.16	0.16		eleased
		ī		·o-		0.20	0.20		eleased
Tota1	Number	r: 13	Number/hr:	20.0	Wt:	0.75	Wt/hr:	1.154	
Moxostoma e	rythruru	מנ							
golden redh	orse					otal	Mean		
		Number	Length R	ange	We	ight	Weight	D:	spositio
		1	12.52 -	0-		0.74	0.74	o re	eleased
		1		0-		0.83	0.83	o re	eleased
Total	Number	r: 2 1	Number/hr:	3.1	Wt:	1.57	Wt/hr:	2.41	5
Lepomis cya	nellus								
green sunfi	sh					otal	Mean		
		Number	Length R	ange	We	eight	Weight	t D:	lspositio
		4	1.42	2.80	_	-0-	-0-	re	leased
		6	3.54	3.98		0.20	0.03	3 re	eleased
Total	Number	r: 10 l	Number/hr:	15.4	Wt:	0.20	Wt/hr:	0.308	3
Dorosoma ce									
gizzard sha	d.					tal	Mean		
		Number	Length R	ange	We	ight	Weight	D:	spositio
		2	2.87	4.13		0.04	0.020	re	eleased
		ī		0-		0.02	0.02		eleased
		ī		·ō-		0.20	0.20		leased
		ī		·0-		0.41	0.41		leased
		ī		-ŏ-		0.42	0.42		leased
		ī		·0-		0.38	0.38		leased
		ī		·o-		0.50	0.50		eleased
Total	Number	r: 8 1	Number/hr:	12.3	Wt:	1.97	Wt/hr:	3.03	ı
Micropterus	salmoi	les							
largemouth 1	bass					tal	Mean		
•		Number	Length R	ange	We	ight	Weight	D :	ispositio
		2		5.31		0.15	0.07		eleased
		1		0-		0.05	0.050		eleased
		1	5.16 -	0-		0.08	0.08) re	eleased

1990 Electrofishing Summary Lengths in inches and weights in pounds

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		1	6.46	-0-	0.15	0.150	released
		ī	8.27	-0-	0.32	0.320	released
							354
Total	Numbe	r: 6	Number/h	r: 9.2	Wt: 0.75	Wt/hr: 1	. 154
Carpiodes ca	rpio						
river carpsu					Total	Mean	
•		Numbe	er Length	Range	Weight	Weight	Disposition
		1	14.96	-0-	1.38	1.380	released released
		1	15.39	-0-	1.62	1.620	Letegaed
Total	Numbe	r: 2	Number/h	r: 3.1	Wt: 3.00	Wt/hr: 4	. 615
Ictiobus bub	alus						
smallmouth h					Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposition
				<u> </u>			
		1	7.80	-0-	0.25	0.250	released
		1	11.02	-0-	0.65	0.650	released
		1	11.85	-0-	0.90	0.900	released
		1	14.57	-0-	1.67	1.670	released released
		1	16.81	-0-	2.41	2.410	released
Total	Numbe	r: 5	Number/h	r: 7.7	Wt: 5.88	Wt/hr: 9	.046
Stizostedio	canad	ense					
sauger					Total	Mean	
		Numbe	er Length	Range	Weight	Weight	Disposition
			3.07	-0-	0.07	0.070	preserved
			3.07		0.07		preserved
Total	Numbe	r: 1	Number/h	r: 1.5	Wt: 0.07	Wt/hr: 0	.108
Morone saxat		M. cl	rysops				
striped base	3				Total	Mean	
		Numbe	er Length	Range	Weight	Weight	Disposition
		1	9.17	-0-	0.40	0.400	released
Total	Numbe	r: 1	Number/h	r: 1.5	Wt: 0.40	Wt/hr: 0	.615
Notropis hu					Total	Mean	
spotail ship	ner				Weight	Mean Weight	Disposition
		Numbe	ar Lengti	Range	weight	Weight	DISPOSICION
		1	2.56	-0-	-0-	-0-	~preserved
Total	Numbe	r: 1	Number/h	r: 1.5	Wt: 0.00	Wt/hr: 0	.000
Morone chry	ions						
white bass	- Upus				Total	Mean	
		Numbe	er Length	Range	Weight	Weight	Disposition
		7	2.83	3.94	0.14	0.020	released
		í	3.19	-0-	-0-14	-0-	preserved
		3	5.31	5.51	0.22	0.073	released
			3.31	3.31		0.0.5	

1990 Electrofishing Summary Lengths in inches and weights in pounds

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		1	9.45	-0-	0.50	0.500	released
Total	Number	: 12	Number/h	r: 18.5	Wt: 0.86	Wt/hr: 1	. 323
Pomoxis annu white crapp:	ie	Numbei	r Length	Range	Total Weight	Mean Weight	Disposition
		1	3.39	-0-	0.01	0.010	released released
			0.00	-0-	0.35	0.350	rereased

Total for 1990-13 Number: 98 Number/hr:150.77 Wt:36.9 Wt/hr:56.82

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Collection 1990-14 Lower Peoria Lake
River mile 163.0 to 163.5 Collection date: 09/12/90 Run = 0.57 hrs

bluegill		··	•		Total	Mean	Dispositio
		Number	Length	Range	Weight	Weight	Dispositio
		2	2.87	3.46	0.03	0.015	released
		2	3.98	4.17	0.06	0.030	released
		6	4.53	5.20	0.46	0.077	released
		5	5.24	5.59	0.57	0.114	released
Total	Number	: 15	Number/h	r: 26.3	Wt: 1.12	Wt/hr: 1	.965
Cyprinus car	rpio						
carp		··			Total	Mean	24
		Number	Length	Range	Weight	Weight	Disposition
		1	10.71	-0-	0.62	0.620	released
		1	10.94	-0-	0.68	0.680	released
		1	11.14	-0-	0.60	0.600	released
		1	11.42	-0-	0.62	0.620	released
		1	12.52	-0-	0.95	0.950	released
		1	12 2	-0-	0.78	0.780	released
		1	12 5	-0-	0.90	0.900	released
		1	13.78	-0-	1.20	1.:00	released
		1	13.98	-0-	1.15	1.150	released
		1	14.37	-0-	1.27	1.270	released
		1	14.41	-0-	1.55	1.550	released
		1	14.49	-0-	1.40	1.400	released
		ī	14.61	-0-	1.55	1.550	released
		1	14.61	-0-	1.45	1.450	released
		1	14.88	-0-	1.40	1.400	released
		1	15.16	-0-	1.46	1.460	released
		ī	15.43	-0-	1.75	1.750	released
		ī	15.47	-o-	1.45	1.450	released
		ī	15.59	-0-	1.75	1.750	released
		ī	15.59	-0-	1.75	1.750	released
		ī	16.34	-0-	2.25	2.250	released
		ī	16.38	-0-	2.15	2.150	released
		i	17.09	-0-	2.05	2.050	released
				-0-	2.35	2.350	released
		, 1	17.36	-0-			
		1	17.44		3.02	3.020	released
		1	17.44	-0-	2.65	2.650	released
		1	19.45	-0-	3.90	3.900	released
		1	19.53	-0-	2.55	2.550	released
Total	Number	: 28 1	Number/h	r: 49.1	Wt:45.20	Wt/hr:79	. 298

Ictalurus punctatus thannel catfish Total Mean Weight Weight Disposition

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	Le	ng cns 1	n Inche	s alla we	19110	5 IN P	ounus	
		1	12.91	-0-		0.62	0.620	released
Total	Number	: 1 N	umber/h	r: 1.8	Wt:	0.62	Wt/hr: 1	.088
Aplodinotus g	runnie	ns						
freshwater dr					T	otal	Mean	
		Number	Length	Range	We	eight	Weight	Disposition
					_			
		4	3.35	4.13		0.07	0.018	released
		1	5.12	-0-		0.05	0.050	released
		1	7.80	-0-		0.18	0.180	released released
		1	10.08	-0-		0.40	0.400	released
		1	10.20	-0-		0.45	0.450	released
		1	11.02	-0-		0.60	0.600	rereased
Total	Number	: 9 N	umber/h	r: 15.8	Wt:	1.75	Wt/hr: 3	.070
Moxostoma ery	+ h =======							
golden redhor		ш			т,	otal	Mean	
gorden rednor		Number	Length	Pance		eight	Weight	Disposition
			Derig Cir	Kungo				
		1	11.26	-0-		0.55	0.550	released
Total	Number	: 1 N	umber/h	r: 1.8	Wt:	0.55	Wt/hr: 0	.965
Lepomis cyane	11110							
green sunfish					т	otal	Mean	
green auniish		Number	Length	Range		eight	Weight	Disposition
		1	3.23	-0-		0.01	0.010	released
		3	4.37	4.92		0.19	0.063	released
		i	4.57	-0-		0.04	0.040	released
		2	5.51	6.50		0.30	0.150	released
m-+-1					w.	0.54	Wt/hr: 0	947
Total	Number	. 1 1	iumber/h	r: 12.3	WC:	0.54	WC/III: C	. 547
Dorosoma cepe	dianum							
gizzard shad	.a.z.a.i.am				T	otal	Mean	
gizzaia snaa		Number	Length	Range		eight	Weight	Disposition
					_		<u> </u>	
		32	3.35	3.98		0.62	0.019	released
		3	3.35	3.94		0.06	0.020	released
		7	4.13	4.53		0.18	0.026	released
		4	5.98	6.69		0.34	0.085	released
		6	7.52	8.90		1.05	0.175	released
		1	7.91	-0-		0.15	0.150	released
Total	Number	:: 53 h	lumber/h	r: 93.0	Wt:	2.40	Wt/hr: 4	1.211
Micropterus s	almoid	les						
largemouth ba					T	otal	Mean	
Targemouth De		Number	Length	Range		eight	Weight	Disposition
					-			
		1	9.37	-0-		0.40	0.400	released
		ī	11.81	-0-		0.86	0.860	released
		ī	12.36	-0-		1.05	1.050	released
		ī	13.43	-0-		1.50	1.500	released
		_						

1990 Electrofishing Summary Lengths in inches and weights in pounds

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		1	15.00	-0-	1.97	1.970	released
Total	Number	: 5	Number/h	r: 8.8	Wt: 5.78	Wt/hr:10	.140
Carpiodes c							
river carps	ucker				Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposition
		1	13.62	-0-	1.23	1.230	released
		1	14.17	-0-	1.50	1.500	released
		1	15.79		1.58	1.580	released
		1	15.91	-0-	1.65	1.650	released
Total	Number	: 4	Number/h	r: 7.0	Wt: 5.96	Wt/hr:10	.456
Ictiobus bul	balus						
smallmouth 1	buffalo				Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposition
		1	13.66	-0-	1.30	1.300	released
Total	Number	: 1	Number/h	r: 1.8	Wt: 1.30	Wt/hr: 2	.281
Stizostedio	n canade	ense					
sauger					Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposition
		1	6.42	-0-	0.06	0.060	preserved
Total	Number	: 1	Number/h	r: 1.8	Wt: 0.06	Wt/hr: 0	.105
Morone chry	sops						
Morone chry: white bass	ворв				Total	Mean	
Morone chrys white bass	sops	Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
Morone chry white bass	воря	Numbe	Length 11.38	Range			Disposition released

Total for 1990-14 Number:126 Number/hr:221.05 Wt:66.0 Wt/hr:1.2E2

1990 Electrofishing Summary Lengths in inches and weights in pounds

Ictiobus nig					Total	Mean	
DIACK DUITAL		Number	Length Ra	nge	Weight	Weight	Dispositi
		1	6.69 -0	_	0.15	0.150	released
Total	Number	: 1	Number/hr:	3.2 V	Wt: 0.15	Wt/hr: 0.	. 484
Pomoxis nigr		tus					
black crappi		Number	Length Ra	nae	Total Weight	Mean Weight	Dispositi
			Deligeli Ka			- Indigite	DISPOSIC
		1	6.81 -0		0.16	0.160	released
		1	7.24 -0		0.20	0.200	released
		1	9.88 -0	-	0.65	0.650	released
Total	Number	: 3	Number/hr:	9.7 V	Wt: 1.01	Wt/hr: 3	. 258
Lepomis macr	ochirus						
bluegill					Total	Mean	
		Number	Length Ra	nge	Weight	Weight	Dispositi
		2	1.97 2	.80	0.02	0.010	released
		5	3.35 3	.66	0.13	0.026	released
		4	3.86 4	.37	0.18	0.045	released
		5		.43	0.50	0.100	released
		1	6.30 -0	-	0.17	0.170	released
Total	Number	: 17	Number/hr:	54.8 ¥	Nt: 1.00	Wt/hr: 3.	. 226
Cyprinus car	pio						
carp		Number	Length Ra	nge	Total Weight	Mean Weight	Dispositi
			Derigen Re				Disposition
		1	7.76 -0		0.23	0.230	released
		1	9.61 -0		0.45	0.450	released
		1	14.21 -0		1.10	1.100	released
Total	Number	: 3	Number/hr:	9.7	Wt: 1.78	Wt/hr: 5.	.742
Aplodinotus		ns					
freshwater d	rum				Total	Mean	21141
		Number	Length Ra	nge	Weight	Weight	Dispositi
		1	6.30 -0	-	0.08	0.080	released
		ī	8.58 -0		0.25	0.250	released

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Lepomis cya	nellus								
green sunfi	sh	Numb	er Lengt	h Ra	inge		otal eight	Mean Weight	Disposition
		2			9.94		0.06	0.030 0.100	released released
Total	Numbe	r: 3	Number/	hr:	9.7	Wt:	0.16	Wt/hr: 0	.516
Dorosoma ce		m							
gizzard sha	d	Numb	er Lengt	h De			otal eight	Mean Weight	Disposition
		Numb	er benge	n Ka	inge	- W	ergnc	werdir	DISPOSICION
		5			.53		0.10	0.020	released
		4	7.52		.17		0.70	0.175	released
		7	10.31	12	1.17		2.85	0.407	released
Total	Numbe	r: 16	Number/	hr:	51.6	Wt:	3.65	Wt/hr:11	.774
Micropterus		des							
largemouth !	bass						otal	Mean	
		Numb	er Lengt	h Ra	inge	W	eight	Weight	Disposition
		1	4.06	-0		_	0.02	0.020	released
		i					1.13	1.130	released
Total	Numbe	r: 2	Number/	hr:	6.5	Wt:	1.15	Wt/hr: 3	.710
Ictiobus bu	balus								
smallmouth !	buffalo						otal	Mean	
	•	Numb	er Lengt	h Ra	inge	W	eight	Weight	Disposition
			7.13	-0			0.16	0.160	released
		ī	9.06				0.40	0.400	released
		ī	10.24				0.55	0.550	released
		1	15.83	-0) —		2.17	2.170	released
Total	Numbe	r: 4	Number/	hr:	12.9	Wt:	3.28	Wt/hr:10	.581
Lepomis gul	osus					Tr.	otal	Mean	
warmouth		Numbe	er Lengt	h Ra	nge		eight	Weight	Disposition
		1	1.85	-0) -		-0-	-0-	preserved
Total	Numbe	r: 1	Number/	hr:	3.2	Wt:	0.00	Wt/hr: 0	.000
Pomoxis ann	ularis								
white crapp						T	otal	Mean	
		Numbe	er Lengt	h Ra	nge		eight	Weight	Disposition
		1	6.77	-0	-	_	0.13	0.130	released
		î	6.89				0.14	0.140	released
		ī	7.52	-0			0.22	0.220	released
		ī	8.35	-0	-		0.30	0.300	released
		1	8.66				0.32	0.320	released
		1	8.70	-0	-		0.32	0.320	released

Tota	Number: 10	Number/h	r: 32.3	Wt: 3.79	Wt/hr:12	.226
	1	12.20	-0-	1.00	1.000	released
	1	10.04	-0-	0.53	0.530	released
	1	9.61	-0-	0.48	0.480	released
	1	8.90	-0-	0.35	0.350	released
May 1991				ng Summary nights in p	ounds	Page A- 40

Total for 1990-15 Number: 62 Number/hr:200.00 Wt:16.3 Wt/hr:52.58

Total

Number:

1

Number/hr:

1.9

Wt: 0.10

Wt/hr: 0.189

Collection 1990-16 Pekin Collection date: 09/13/90 Run = 0.53 hrs River mile 154.5 to 154.9 Ictiobus cyprinellus bigmouth buffalo Total Mean Weight Disposition Weight Number Length Range 0.85 0.850 released 1 11.42 -0--0-0.85 0.850 released 1 11.50 released 2.550 1 16.14 -0-2.55 2.900 2.90 released 1 17.17 -0-3.100 3.10 released 1 17.91 -0-Wt/hr:19.340 Total Number: Number/hr: 9.4 Wt:10.25 Lepomis macrochirus Total Mean bluegill Number Length Range Weight Weight Disposition -0-0.05 0.050 released 1 4.17 Number: 1 Number/hr: 1.9 Wt: 0.05 Wt/hr: 0.094 Total Cyprinus carpio Total Mean carp Weight Weight Disposition Number Length Range 0.150 6.73 -0-0.15 released 1 1 7.60 -0-0.20 0.200 released 1 8.35 -0-0.25 0.250 released 0.30 0.300 released 1 8.46 -0--0-0.30 0.300 relessed 1 8.86 10.63 -0-0.57 0.570 released 1 Wt: 1.77 Wt/hr: 3.340 Total Number: Number/hr: 11.3 Dorosoma cepedianum Total Mean gizzard shad Weight Weight Disposition Number Length Range 3.54 0.35 0.011 released 31 2.95 3.54 3.54 0.15 0.015 released 10 Wt: 0.50 Wt/hr: 0.943 Number: 41 Number/hr: 77.4 Total Micropterus salmoides Total Mean largemouth bass Weight Weight Disposition Number Length Range -0-0.10 0.100 released 1 6.10

Total

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Ictiobus bubalus smallmouth buffalo	Number	Length Range	Total Weight	Mean Weight	Disposition
	1	9.45 -0- 9.76 -0-	0.35	0.350	released released
Total Numbe	r: 2 N	umber/hr: 3.8	Wt: 0.75	Wt/hr: 1	415
Alosa chrysochlori skipjack herring	s Number	Length Range	Total Weight	Mean Weight	Disposition
	6	3.82 4.25	0.08	0.013	released
Total Number	r: 6 N	Number/hr: 11.3	Wt: 0.08	Wt/hr: 0	. 151
Morone chrysops white bass	Number	Length Range	Total Weight	Mean Weight	Disposition
	5 4 2 1 1	3.15 3.54 3.74 5.12 4.09 4.45 5.75 -0- 7.64 -0- 11.54 -0-	0.07 0.15 0.05 0.08 0.25 0.75	0.014 0.038 0.025 0.080 0.250 0.750	released released released released released

Number: 14 Number/hr: 26.4 Wt: 1.35 Wt/hr: 2.547

Total for 1990-16 Number: 76 Number/hr:143.40 Wt:14.8 Wt/hr:28.02

1990 Electrofishing Summary Lengths in inches and weights in pounds

Ictiobus cyr		18			Total	Mean	
Digmodeli Du	laio	Numbe	r Length	Range	Weight	Weight	Disposi
		1	10.75	-0-	0.84	0.840	release
Total	Number	r: 1	Number/h	r: 2.1	Wt: 0.84	Wt/hr: 1	.787
Pomoxis nigr	comacula	tus					
black crappi	e	Mumb a		D	Total	Mean	Dianasi
		Numbe	r Length	Range	Weight	Weight	Disposi
		1	6.97	-0-	0.18	0.180	release
Total	Number	r: 1	Number/h	r: 2.1	Wt: 0.18	Wt/hr: 0	.383
Lepomis mac	ochirus	3			4		
bluegill				D	Total	Mean	D
		Numbe	Length	Range	Weight	Weight	Disposi
		3	1.93	2.09	-0-	-0-	release
		4	3.35	3.74	0.10	0.025	release
		1	7.01	-0-	0.25	0.250	release
Total	Number	: 8	Number/h	r: 17.0	Wt: 0.35	Wt/hr: 0	.745
Cyprinus car	pio						
carp		Numbe	r Length	Range	Total Weight	Mean Weight	Disposi
		1	8.78	-0-	0.30	0.300	release
		1	8.94	-0-	0.34	0.340	release
		1	15.08	-0-	1.70	1.700	release
		1	15.43 15.51	-0- -0-	1.65 1.85	1.650 1.850	release
		i	16.18	-0-	1.85	1.850	release
		ī	16.46	-o-	2.05	2.050	release
Total	Number	: 7	Number/h	r: 14.9	Wt: 9.69	Wt/hr:20	.617
Aplodinotus		ens					
freshwater d	lrum				Total	Mean	
		Numbe	r Length	Range	Weight	Weight	Disposi
			8.58	-0-	0.26	0.260	release
		1	15.00	-0-	1.75		

Lepomis cyanellus Mean green sunfish Total Number Length Range Weight Weight Disposition 2 1.85 1.85 -0--0released Total Number: Number/hr: 4.3 Wt: 0.00 Wt/hr: 0.000 Dorosoma cepedianum Total Mean gizzard shad Length Range Weight Weight Disposition Number 2 3.39 3.54 0.01 0.005 released Wt/hr: 0.021 Total Number: 2 Number/hr: Wt: 0.01 4.3 Micropterus salmoides largemouth bass Total Mean Number Length Range Weight Weight Disposition 1 13.19 -0-1.30 1.300 released Total Number: 1 Number/hr: 2.1 Wt: 1.30 Wt/hr: 2.766 Percina caprodes Total Mean logperch Disposition Number Length Range Weight Weight 2.76 -0--0--0released 1 Number: Total 1 Number/hr: 2.1 Wt: 0.00 Wt/hr: 0.000 Carpiodes carpio river carpsucker Total Mean Weight Number Length Range Weight Disposition -0-0.25 0.250 released 1 7.83 -0-0.420 released 1 10.00 0.42 Wt: 0.67 Wt/hr: 1.426 Total Number: 2 Number/hr: 4.3 Moxostoma macrolepidotum Mean shorthead redhorse Total Number Weight Weight Disposition Length Range released 1 13.39 -0-0.95 0.950 Total Number: 1 Number/hr: 2.1 Wt: 0.95 Wt/hr: 2.021 Alosa chrysochloris Total Mean skipjack herring Weight Weight Disposition Number Length Range

4.06

6.4

0.03

Wt: 0.03

0.010

Wt/hr: 0.064

released

3.58

Number/hr:

3

Number:

Total

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Dorosoma pete							
threadfin sha		Number	Length	Range	Total Weight	Mean Weight	Disposition
		5	3.35	3.86	0.07	0.014	preserved
Total	Number	: 5	Number/h	r: 10.6	Wt: 0.07	Wt/hr: 0	.149
Morone chrys	ops						
white bass				_	Total	Mean	
		Number	Length	Range	Weight	Weight	Disposition
		3	3.15	4.13	0.05	0.017	released
		3	5.47	5.67	0.20	0.067	released
		2	5.55	5.79	0.15	0.075	released
		2 1	10.71	-0-	0.60	0.600	released
		1	10.75	-0-	0.55	0.550	released
		1	11.26	-0-	0.65	0.650	released
Total	Number	: 11	Number/h	r: 23.4	Wt: 2.20	Wt/hr: 4	. 681
Pomoxis annul	laris						
white crappie	е				Total	Mean	
		Number	Length	Range	Weight	Weight	Disposition
		1	3.35	-0-	-0-	-0-	released
Total	Number	: 1	Number/h	r: 2.1	Wt: 0.00	Wt/hr: 0	.000

Total for 1990-17 Number: 48 Number/hr:102.13 Wt:18.3 Wt/hr:38.94

Ictiobus cyp		;						
bigmouth buf		Jumber	Length Ra	nge		otal sight	Mean Weight	Disposit
	-	1	16.54 -0		_	2.80	2.800	released
Total	Number:	1	Number/hr:	1.6	Wt:	2.80	Wt/hr: 4	.516
Pomoxis nigr	omaculat	us						
black crappi	e					otal	Mean	
	N	lumber	Length Ra	nge	We	eight	Weight	Disposit
	_	1	7.64 -0	_		0.28	0.280	released
		ī	10.63 -0	-		0.82	0.820	released
Total	Number:	2	Number/hr:	3.2	Wt:	1.10	Wt/hr: 1	.774
Lepomis macr	ochirus							
bluegill	٠.,					otal	Mean	D4 14-
	_ N	lumber	Length Ra	nge	We	eight	Weight	Disposit
		8	1.61 2	.28		0.03	0.004	released
		2	2.87 3	.11		0.03	0.015	released
		1	5.35 -0			0.14	0.140	released
		1	6.61 -0			0.23	0.230	released
	_	1	7.17 -0	-		0.34	0.340	released
Total	Number:	13	Number/hr:	21.0	Wt:	0.77	Wt/hr: 1	. 242
Cyprinus car	pio							
carp						tal	Mean	
	<u> </u>	umber	Length Ra	nge	We	ight	Weight	Dispositi
		1	9.13 -0			0.44	0.440	released
		1	11.77 -0			0.80	0.800	released
		1	12.05 -0			0.77	0.770	released
		1	15.08 -0			1.40	1.400	released
		1	15.51 -0 16.06 -0			1.60	1.600	released released
	_	1	16.06 -0	<u>-</u>		2.00	2.000	released
Total	Number:	6	Number/hr:	9.7	Wt:	7.01	Wt/hr:11	.306
Ictalurus pu								
channel catf		umber	Length Ra	nge		tal ight	Mean Weight	Dispositi
	-	1	12.01 -0	_	_	0.57	0.570	released
	_							
Total	Number:	1	Number/hr:	1.6	Wt:	0.57	Wt/hr: 0	. 919

Notropis at		des					
emerald shi	ner	Number	Length	Range	Total Weight	Mean Weight	Disposition
		2 4	1.57 2.09	1.61 3.23	-0- -0-	-0- -0-	released preserved
Total	Numbe	r: 6	Number/h	r: 9.7	Wt: 0.00	Wt/hr: 0	.000
Pylodictis		8					
flathead car	tfish	Number	Length	Range	Total Weight	Mean Weight	Disposition
		1	29.72	-0-	13.00	13.000	released
Total	Number	r: 1 1	Number/h	r: 1.6	Wt:13.00	Wt/hr:20	.968
Aplodinotus		ens					_
freshwater (irum	Number	Length	Range	Total Weight	Mean Weight	Disposition
		1	7.91	-0-	0.22	0.220	released
Total	Number	r: 1 1	Number/h	r: 1.6	Wt: 0.22	Wt/hr: 0	.355
Lepomis cya							
green sunfi	sh	Number	Length	Range	Total Weight	Mean Weight	Disposition
		1	3.78	-0-	-0-	-0-	released
Total	Number	r: 1 1	Number/h	r: 1.6	Wt: 0.00	Wt/hr: 0	.000
Dorosoma cej		1					
gizzard shad	i	Number	Tanabh	Danes	Total Weight	Mean Weight	D11-1
		Mumber	Length	Kange	weight	weight	Disposition
		42	2.91	3.74	0.57	0.014	released
		2 14	4.65 5.47	4.96	0.08	0.040	released released
Total							
	Number		Number/h	r: 93.5	Wt: 1.74	Wt/hr: 2	.806
Micropterus largemouth 1		ies			Total	Mean	
Targemoden i	Jass	Number	Length	Range	Weight	Weight	Disposition
		1	10.75	-0-	0.68	0.680	released
		1	11.93	-0-	1.01	1.010	released
		1	14.69	-0-	1.83	1.830	released
Total	Number	r: 3 l	Number/h	r: 4.8	Wt: 3.52	Wt/hr: 5	. 677
Lepomis hum:							
orangespotte	d sunf:		Tanash	Dance	Total	Mean	D1 141
		Number	Length	Kange	Weight	Weight	Disposition

Total

Number: 14

1990 Electrofishing Summary Lengths in inches and weights in pounds

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1 2.83 -0--0--0released Total Number: Number/hr: Wt: 0.00 Wt/hr: 0.000 1 1.6 Alosa chrysochloris Mean skipjack herring Total Weight Weight Disposition Number Length Range 5 3.78 4.41 0.13 0.026 released 1 7.32 -0-0.12 0.120 released Total Number: Number/hr: 9.7 Wt: 0.25 Wt/hr: 0.403 Dorosoma petenense threadfin shad Total Mean Disposition Number Length Range Weight Weight 7 3.23 0.07 0.010 released 2.91 5 3.50 0.08 0.016 released 3.86 Total Number: 12 Number/hr: 19.4 Wt: 0.15 Wt/hr: 0.242 Carpiodes cyprinus quillback Total Mean Number Length Range Weight Weight Disposition 0.34 0.340 released 1 8.74 -0-Total Number: Number/hr: 1.6 Wt: 0.34 Wt/hr: 0.548 1 Morone chrysops white bass Total Mean Disposition Number Length Range Weight Weight 0.13 0.026 released 5 3.98 4.53 4.92 0.34 0.057 released 6 5.47 1 6.54 -0-0.13 0.130 released 0.850 released 1 12.05 -0-0.85 13.54 -0~ 1.33 1.330 released

Total for 1990-18 Number:127 Number/hr:204.84 Wt:34.3 Wt/hr:55.24

Number/hr: 22.6

Wt: 2.78

Wt/hr: 4.484

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1990 Electrofishing Summary Lengths in inches and weights in pounds

						.	
Ictiobus cy bigmouth bu		.8			Total	Mean	
Digmodell Du		Number	Length	Range	Weight	Weight	Disposit
		1	15.31	-0-	2.05	2.050	released
		1	16.10	-0-	2.71	2.710	released
		1	17.48	-0-	3.29	3.290	released
		1	18.66	-0-	4.44	4.440	released
Total	Number	: 4 N	Number/hr	7.0	Wt:12.49	Wt/hr:21	.912
Ictiobus ni							
black buffa					Total	Mean	D4 44
		Number	Length	kange	Weight	Weight	Disposit
		1	11.30	-0-	0.79	0.790	released
		ī	14.88	-0-	2.00	2.000	released
Total	Number	: 2 N	Number/hr	: 3,5	Wt: 2.79	Wt/hr: 4	. 895
Pomoxis nig	romacula	tus					
black crapp	ie				Total	Mean	
		Number	Length	Range	Weight	Weight	Disposit
		1	6.54	-0-	0.16	0.160	released
		1	6.73	-0-	0.16	0.160	released
		1	6.85	-0-	0.18	0.180	released
		1	7.09	-0-	0.18	0.180	released
		1	7.13	-0-	0.21	0.210	released
		1	7.17	-0-	0.23	0.230	released
		1	7.17	-0-	0.22	0.220	released
		1	7.32	-0-	0.24	0.240	released
		1	7.40	-0-	0.27	0.270	released
		1	7.44	-0-	0.24	0.240	released
		1	7.56	-0-	0.28	0.280	released
		1	7.80	-0-	0.29	0.290	released
		1	9.45	-0-	0.58	0.580	released
		1	10.35	-0-	0.70	0.700	released
		1	10.47	-0-	0.78	0.780	released
Total	Number	: 15 N	lumber/hr	: 26.3	Wt: 4.72	Wt/hr: 8	. 281
Lepomis mac	rochirus				m-h-1		
bluegill		Number	Length	Range	Total Weight	Mean Weight	Disposit
		1	1.89	-0-	-0-	-0-	released
		2	2.01	2.20	-0-	-0-	released
		3	3.66	4.49	0.13	0.043	released

ay 1991		199	0 Electi	rofishin	g Sur	mary		Page A- 50
-,	Leng	gths i	n inches	s and we	ights	inp	ounds	
				•		0.14	0.140	released
		1	5.71 6.93	-0-		0.14	0.140	released
		i	7.09	-0-		0.27	0.270	released
Total 1	- lumber:		umber/h		W+·	0.96	Wt/hr: 1.	684
10001	umber.	10 1	umber, iii					
Cyprinus carpi	lo							
carp						otal	Mean	
	N	umber	Length	Range	We	eight	Weight	Disposition
		1	15.47	-0-	_	1.86	1.860	released
		î	15.51	-0-		1.70	1.700	released
		î	17.52	-0-		2.73	2.730	released
	_		17.32					
Total 1	lumber:	3 N	umber/h	r: 5.3	Wt:	6.29	Wt/hr:11.	.035
Ictalurus pund	tatus							
channel catfig						otal	Mean	
	N	umber	Length	Range	We	eight	Weight	Dispositio
	_				_		0.350	released
		1	10.24	-0-		0.35	0.550	released
	_	1	12.48	-0-		0.65	0.650	Teleased
Total I	Number:	2 N	umber/h	r: 3.5	Wt:	1.00	Wt/hr: 1	.754
Notropis ather	-inoido							
emerald shine		-			T	otal	Mean	
emerara surno		umber	Length	Range		eight	Weight	Disposition
	_				_	<u> </u>		
	_	6	1.42	2.01		-0-	-0-	released
Total 1	Number:	6 1	lumber/h	r: 10.5	Wt:	0.00	Wt/hr: 0	.000
Aplodinotus gr	minnian							
freshwater dr					T	otal	Mean	
		umber	Length	Range	W	eight	Weight	Disposition
	-				_	<u> </u>		
		3	3.78	4.37		0.08	0.027	released
		1	17.09	-0-		3.00	3.000	released
Total 1	Number:	4 1	Number/h	r: 7.0	Wt:	3.08	Wt/hr: 5	. 404
Lepomis cyane						otal	Mean	
green sunfish		umber	Length	Pange		eight	Weight	Disposition
	N	umber	rendtu	range		-19116	4619116	
	_	4	2.80	3.27		0.07	0.018	released
		7	3.78	4.29		0.28	0.040	released
		í	4.84	4.49		0.03	0.030	released
Total	- Number:	12 1	Number/h	r: 21.1	Wt:	0.38	Wt/hr: 0	. 667
Dorosoma cepe	dianum							
gizzard shad						otal	Mean	
-	N	umber	Length	Range	W	eight	Weight	Dispositi
	-	7	2.76	3.54	_	0.09	0.013	released

1990 Electrofishing Summary Lengths in inches and weights in pounds

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released 2 5.39 6.14 0.14 0.070 Wt/hr: 0.404 Wt: 0.23 Total Number: 9 Number/hr: 15.8 Micropterus salmoides Total Mean largemouth bass Disposition Number Length Range Weight Weight 4.92 -0-0.07 0.070 released 1 0.09 5.55 0.090 released 1 -0-0.45 0.450 released 1 9.53 -0-0.74 0.740 released 1 10.87 -0-11.54 0.86 0.860 released 1 -0-0.960 released 1 12.13 -0-0.96 1.040 1.04 released 1 12.52 -0-1 14.96 -0-1.78 1.780 released 2.220 released 1 15.47 -0-2.22 Number/hr: 15.8 Wt: 8.21 Wt/hr:14.404 Total Number: 9 Lepisosteus osseus longnose gar Total Mean Disposition Weight Weight Number Length Range 0.44 0.440 released 1 15.55 -0-Total Number: 1 Number/hr: 1.8 Wt: 0.44 Wt/hr: 0.772 Carpiodes carpio Total Mean river carpsucker Number Length Range Weight Weight Disposition 1.05 1.050 released 1 12.87 -0-1.10 1.100 released 1 13.19 -0-Wt/hr: 3.772 Total Number: Number/hr: 3.5 Wt: 2.15 Ictiobus bubalus smallmouth buffalo Total Mean Number Weight Disposition Length Range Weight 0.510 released 9.84 -0-0.51 1 0.81 0.810 released 1 11.97 -0-0.970 0.97 released 1 12.09 -0-Wt: 2.29 Wt/hr: 4.018 Total Number: 3 Number/hr: 5.3 Alosa chrysochloris Total Mean skipjack herring Weight Disposition Number Length Range Weight 0.07 0.018 released 4 3.19 4.92 6.50 7.40 0.19 0.095 released 2 Wt: 0.26 Wt/hr: 0.456 Total Number: 6 Number/hr: 10.5

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Dorosoma pete threadfin sha		Number	Length Range	Total Weight	Mean Weight	Disposition
		13	2.95 3.58	0.15	0.012	released
Total	Number	r: 13 N	umber/hr: 22.8	Wt: 0.15	Wt/hr: 0	. 263
Morone chryse white bass	ops	Number	Length Range	Total Weight	Mean Weight	Disposition
		2 1 1	3.82 4.09 7.80 -0- 10.91 -0- 14.29 -0-	0.05 0.23 0.65 1.34	0.025 0.230 0.650 1.340	released released released released
Total	Number	r: 5 N	umber/hr: 8.8	Wt: 2.27	Wt/hr: 3	. 982
Pomoxis annul white crappio		Number	Length Range	Total Weight	Mean Weight	Disposition
		1	10.75 -0-	0.63	0.630	released
Total	Numbe	r: 1 N	Number/hr: 1.8	Wt: 0.63	Wt/hr: 1	.105

Total for 1990-19 Number:107 Number/hr:187.72 Wt:48.3 Wt/hr:84.81

ection 1990-20 ver mile 95.7 to		ek Island Collection dat	te: 09/13/9	0 Run =	0.61 hrs
Ictiobus cyprinel	lus				
bigmouth buffalo	Number	Length Range	Total Weight	Mean Weight	Dispositio
	1	21.46 -0-	5.75	5.750	released
Total Numb	er: 1 N	Number/hr: 1.6	Wt: 5.75	Wt/hr: 9	.426
Pomoxis nigromacu	latus				
black crappie	Number	Length Range	Total Weight	Mean Weight	Dispositio
	Number	Dength Range	weight	weight	Dispositio
	1	7.17 -0-	0.23	0.230	released
Total Numb	er: 1 N	Number/hr: 1.6	Wt: 0.23	Wt/hr: 0	. 377
Lepomis macrochir	us				
bluegill	Number	Length Range	Total Weight	Mean Weight	Dispositio
	1	1.97 -0-	-0-	-0-	released
	1	4.49 -0-	0.07	0.070	released
Total Numb	er: 2 N	Number/hr: 3.3	Wt: 0.07	Wt/hr: 0	. 115
Cyprinus carpio					
carp	Number	Tanah Dana	Total	Mean	D1141-
	Number	Length Range	Weight	Weight	Dispositio
	1	11.26 -0-	0.67	0.670	released
	1	14.45 -0-	1.49	1.490	released
	1	15.47 -0-	1.55	1.550	released
	1	15.67 -0-	1.72	1.720	released
	1	15.67 -0-	1.43	1.430	released
	1	16.02 -0-	2.09	2.090	released
	1	16.02 -0- 16.06 -0-	1.98	1.980	released
	1		1.79 2.48	1.790 2.480	released released
	i	16.38 -0- 16.42 -0-	2.13	2.130	released
	i	16.42 -0-	1.96	1.960	released
	i	16.97 -0-	1.92	1.920	released
	i	17.01 -0-	2.06	2.060	released
	ī	17.80 -0-	2.43	2.430	released
	ī	18.35 -0-	2.87	2.870	released
	ī	18.62 -0-	3.28	3.280	released
	ī	20.00 -0-	3.65	3.650	released

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Ictalurus p		ıs			т.	tal	Mean	
Chamber Cac	1 1811	Number	Length	Range		ight	Weight	Disposition
		1	6.54	-0-		0.09	0.090	released
		ī	13.35	-0-		0.78	0.780	released
		1	14.37	-0-		1.08	1.080	released
		1	18.66	-0-		2.52	2.520	released
		1	19.57	-0-		2.74	2.740	released
Total	Numbe	r: 5 l	Number/h	r: 8.2	Wt:	7.21	Wt/hr:11	.820
Notropis at		des			TC	tal	Mean	
CMCTUIU DIII		Number	Length	Range		ight	Weight	Disposition
		1	1.77	-0-	_	0-	-0-	released
Total	Numbe	r: 1 1	Number/h	r: 1.6	Wt:	0.00	Wt/hr: 0	.000
Pylodictis	olivari	s						
flathead ca	tfish	Number	Length	Range		tal ight	Mean Weight	Disposition
		1	10.59	-0-	_	0.44	0.440	released
Total	Numbe	r: 1 1	Number/h	r: 1.6	Wt:	0.44	Wt/hr: 0	.721
Aplodinotus	grunni	ens						
freshwater					To	tal	Mean	
		Number	Length	Range	We	ight	Weight	Disposition
			4.13	4.49		0.11	0.055	released
		1	12.60	-0-		1.06	1.060	released
Total	Numbe	r: 3 1	Number/h	r: 4.9	Wt:	1.17	Wt/hr: 1	.918
Lepomis cya	nellus							
green sunfi	sh					tal	Mean	
		Number	Length	Range	We	ight	Weight	Disposition
		1	3.11	-0-		0.03	0.030	released
Total	Numbe	r: 1 l	Number/h	r: 1.6	Wt:	0.03	Wt/hr: 0	. 049
Dorosoma ce	pedianu	m						
gizzard sha	d					tal	Mean	
		Number	Length	Range	We	ight	Weight	Disposition
		2	2.80	3.54	-	0-	-0-	released
Total	Numbe	r: 2 l	Number/h	r: 3.3	Wt:	0.00	Wt/hr: 0	.000
Alosa chrys	ochlori	g						
skipjack he		-			To	tal	Mean	
•••	•	Number	Length	Range	We	ight	Weight	Disposition
					_			-

1990 Electrofishing Summary Lengths in inches and weights in pounds

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		4	3.70	4.25	0.08	0.020	released
Total	Number	: 4 1	Number/h	r: 6.6	Wt: 0.08	Wt/hr: 0	.131
Dorosoma per threadfin s		Number	Length	Range	Total Weight	Mean Weight	Disposition
			3.27	-0-	-0-	-0-	released
		1	3.2/	-0-	-0-	-0-	rereadea
Total	Number		Number/h			Wt/hr: 0	
Total Morone chrys white bass				r: 1.6			.000
Morone chry		: 1 1	Number/h	r: 1.6	Wt: 0.00	Wt/hr: 0	

Total for 1990-20 Number: 44 Number/hr: 72.13 Wt:50.7 Wt/hr:83.11

Total

Lepomis macr	och i rue						
bluegill	OCHILLES				Total	Mean	
		Number	Length R	ange	Weight	Weight	Dispositio
		5		2.05	-0-	-0-	released
		1	3.82 -	0-	0.05	0.050	released
Total	Number	: 6	Number/hr:	8.2	Wt: 0.05	Wt/hr: 0	.068
Cyprinus car	pio						
carp	1	Number	Length R	ange	Total Weight	Mean Weight	Disposition
							DISPOSICIO
		1		0-	0.35	0.350	released
			20.67 -	0-	4.60	4.600	released
Total	Number	: 2	Number/hr:	2.7	Wt: 4.95	Wt/hr: 6	.781
Ictalurus pu	nctatus						
channel catf:							
					Total	Mean	
	1	Number	Length R	ange	Total Weight	Mean Weight	Disposition
	1			<u> </u>	Weight	Weight	
	1	1	17.05 -	ange 0-	Weight 1.60	Weight 1.600	released
	1		17.05 -0 17.44 -0	0-	1.60 1.80	1.600 1.800	released
	1	1 1	17.05 -0 17.44 -0 17.52 -0	0- 0-	1.60 1.80 1.65	1.600 1.800 1.650	released released released
	1	1 1 1	17.05 -0 17.44 -0 17.52 -0 17.80 -0	0- 0- 0-	1.60 1.80	1.600 1.800 1.650 1.750	released released released released
	1	1 1 1	17.05 -0 17.44 -0 17.52 -0 17.80 -0	0- 0- 0- 0-	1.60 1.80 1.65 1.75	1.600 1.800 1.650	released released released
Total	Number:	1 1 1 1 1	17.05 -0 17.44 -0 17.52 -0 17.80 -0	0- 0- 0- 0- 0-	Weight 1.60 1.80 1.65 1.75 2.50	1.600 1.800 1.650 1.750 2.500	released released released released released
Total	Number:	1 1 1 1 1 1 1	17.05 -(17.44 -(17.52 -(17.80 -(19.09 -(20.87 -(0- 0- 0- 0- 0- 0-	1.60 1.80 1.65 1.75 2.50 3.85	1.600 1.800 1.650 1.750 2.500 3.850	released released released released released
Notropis athe	Number:	1 1 1 1 1 1 1	17.05 -(17.44 -(17.52 -(17.80 -(19.09 -(20.87 -(0- 0- 0- 0- 0- 0-	Weight 1.60 1.80 1.65 1.75 2.50 3.85 Wt:13.15	Weight 1.600 1.800 1.650 1.750 2.500 3.850 Wt/hr:18	released released released released released
Notropis athe	Number: erinoide	1 1 1 1 1 1 1	17.05 17.44 17.52 17.80 19.09 20.87 Number/hr:	0- 0- 0- 0- 0- 0- 0- 0-	1.60 1.80 1.65 1.75 2.50 3.85	1.600 1.800 1.650 1.750 2.500 3.850	released released released released released released
Notropis athe	Number: erinoide	1 1 1 1 1 1 1 2 6	17.05 17.44 17.52 17.80 19.09 20.87 Length Ra	0- 0- 0- 0- 0- 0- 0- 0-	#eight 1.60 1.80 1.65 1.75 2.50 3.85 Wt:13.15	Weight 1.600 1.800 1.650 1.750 2.500 3.850 Wt/hr:18	released released released released released
Notropis athe	Number: erinoide	1 1 1 1 1 1 1 1 1 1 1 4	17.05 17.44 17.52 17.80 19.09 20.87 Length Ra	0- 0- 0- 0- 0- 0- 0- 0- 8.2	Weight 1.60 1.80 1.65 1.75 2.50 3.85 Wt:13.15	Weight 1.600 1.800 1.650 1.750 2.500 3.850 Wt/hr:18 Mean Weight	released released released released released released released released processed
Notropis athe emerald shine Total	Number: erinoide er Number:	1 1 1 1 1 1 1 1 1 1 1 4	17.05 (17.44 (17.52 (17.80 (19.09 (20.87 (Number/hr: Length Ra 1.34 3	0- 0- 0- 0- 0- 0- 0- 0- 0- 3.15	Weight 1.60 1.80 1.65 1.75 2.50 3.85 Wt:13.15 Total Weight -0-	Weight 1.600 1.800 1.650 1.750 2.500 2.500 Wt/hr:18 Mean Weight -0-	released released released released released released released released processed
Notropis athe emerald shine Total	Number: erinoide er Number:	1 1 1 1 1 1 1 1 1 1 1 4	17.05 (17.44 (17.52 (17.80 (19.09 (20.87 (Number/hr: Length Ra 1.34 3	0- 0- 0- 0- 0- 0- 0- 0- 0- 3.15	Weight 1.60 1.80 1.65 1.75 2.50 3.85 Wt:13.15 Total Weight -0-	Weight 1.600 1.800 1.650 1.750 2.500 2.500 Wt/hr:18 Mean Weight -0-	released released released released released released released.
Notropis athe emerald shine Total	Number: erinoide er Number: livaris	1 1 1 1 1 1 1 1 1 1 1 4	17.05 (17.44 (17.52 (17.80 (19.09 (20.87 (Number/hr: Length Ra 1.34 3	0- 0- 0- 0- 0- 0- 0- 8.2 8.2	Weight 1.60 1.80 1.65 1.75 2.50 3.85 Wt:13.15 Total Weight -0- Wt: 0.00	Weight 1.600 1.800 1.650 1.750 2.500 3.850 Wt/hr:18 Mean Weight -0- Wt/hr: 0.	released released released released released released released released reseased.
Notropis athe emerald shine Total	Number: erinoide er Number: livaris	1 1 1 1 1 1 1 1 6 es	17.05 17.44 17.44 17.52 19.09 20.87 19.09 19.	8.2 ange 3.15 5.5	Weight 1.60 1.80 1.65 1.75 2.50 3.85 Wt:13.15 Total Weight -0- Wt: 0.00	Weight 1.600 1.800 1.650 1.750 2.500 3.850 Wt/hr:18 Mean Weight -0- Wt/hr: 0.	released released released released released released .014 Disposition preserved

Number: 1 Number/hr: 1.4 Wt: 0.25 Wt/hr: 0.342

1990 Electrofishing Summary Lengths in inches and weights in pounds

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	drum	Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
		1	3.54 13.07	-0- -0-	0.02 0.95	0.020 0.950	released released
Total	Number	: 2	Number/h	r: 2.7	Wt: 0.97	Wt/hr: 1	.329
Lepomis cyar						W	
green sunii:	sn	Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
		3	1.97	3.11	-0-	-0-	released
Total	Number	: 3	Number/h	r: 4.1	Wt: 0.00	Wt/hr: 0	.000
Dorosoma ce							
gizzard shad	1	Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
		9 1	2.56 5.91	3.35 -0-	0.10 0.10	0.011 0.100	released released
Total	Number	: 10	Number/h	r: 13.7	Wt: 0.20	Wt/hr: 0	. 274
Micropterus		les					
largemouth 1	bass	Numbe	r Length	Range	Total Weight	Mean Weight	Disposition
		1	3.15	-0-	-0-	-0-	released
Total	Number	: 1	Number/h	r: 1.4	Wt: 0.00	Wt/hr: 0	.000
Dorosoma pet							
threadfin sl						Mean	
	nad	Numbe	r Length	Range	Total Weight	Weight	Disposition
	nad	Numbe:	Length 2.99	Range 3.15			Disposition released
Total	nad Number	2		3.15	Weight	Weight	
Total	Number	2	2.99	3.15	Weight -0- Wt: 0.00	Weight -0- Wt/hr: 0	released
Total	Number	2	2.99 Number/h	3.15 r: 2.7	Weight -0-	Weight -0-	released
Total	Number	2	2.99 Number/h	3.15 r: 2.7	Weight -0- Wt: 0.00 Total	Weight -0- Wt/hr: 0	released
Total	Number	2 Number	2.99 Number/h	3.15 r: 2.7 Range	Weight -0- Wt: 0.00 Total Weight	Weight -0- Wt/hr: 0 Mean Weight	released .000 Disposition
Total Carpiodes cyquiliback Total Morone chrys	Number yprinus Number	2 Number	2.99 Number/h	3.15 r: 2.7 Range	Weight -0- Wt: 0.00 Total Weight 0.03 Wt: 0.03	Weight -0- Wt/hr: 0 Mean Weight 0.030 Wt/hr: 0	released .000 Disposition
Total Carpiodes cy quiliback Total Morone chrys	Number yprinus Number	2 Number	2.99 Number/h r Length 4.02 Number/h	3.15 r: 2.7 Range -0- r: 1.4	Weight -0- Wt: 0.00 Total Weight 0.03	Weight -0- Wt/hr: 0 Mean Weight 0.030	released .000 Disposition released
Total Carpiodes cy quillback Total	Number yprinus Number	Number	2.99 Number/h r Length 4.02 Number/h	3.15 r: 2.7 Range -0- r: 1.4	Weight -0- Wt: 0.00 Total Weight 0.03 Wt: 0.03	Weight -0- Wt/hr: 0 Mean Weight 0.030 Wt/hr: 0	released .000 Disposition

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Total Number: 3 Number/hr: 4.1 Wt: 0.12 Wt/hr: 0.164

Total for 1990-21 Number: 41 Number/hr: 56.16 Wt:19.7 Wt/hr:27.01

Total Lepomis macri	Number	1 1 1				Weight	Disposi
Lepomis mac	Number			-0-	1.6	1.650	release
Lepomis mac	Number	1	16.85 -	-o-	2.80		release
Lepomis mac	Number	-	18.11	-0-	3.95	3.950	release
		: 3	Number/hr:	3.4	Wt: 8.40	Wt/hr: 9	.655
bluegill	rochirus						
					Total	Mean	
		Number	Length I	Range	Weight	Weight	Disposi
		1	6.38 -	-0-	0.24	0.240	release
Total	Number	: 1	Number/hr:	: 1.1	Wt: 0.24	Wt/hr: 0	.276
Cyprinus car	rpio						
carp					Total	Mean	
		Number	Length I	Range	Weight	Weight	Disposi
		1	18.50 -	-0-	3.57		release
		1		-0-	4.10		release
		1		-0-	5.25		release
		1	20.87 -	-0-	4.45	4.450	release
Total	Number	: 4	Number/hr:	4.6	Wt:17.37	Wt/hr:19	.966
Ictalurus p							
channel cat	rish				Total	Mean	21
		Number	Length I	kange	Weight	Weight	Disposi
		1	10.63 -	-0-	0.37	0.370	release
		ī		-o-	0.96		release
		ĩ		-0-	1.15		release
		1	15.08 -	-0-	1.20	1.200	release
		1	16.93 -	-0-	1.95	1.950	release
		1	17.91 -	-0-	2.25	2.250	released
Total	Number	: 6	Number/hr:	6.9	Wt: 7.88	Wt/hr: 9	.057
Aplodinotus		ns					
freshwater o		Number	Length F	Range	Total Weight	Mean Weight	Disposi
			0.37 -	-0-	0.01	0.010	release

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Dorosoma ce gizzard sha		er Length	Range	Total Weight	Mean Weight	Disposition
	1	2.91	3.31	0.04	0.040	released
Total	Number: 1	Number/h	r: 1.1	Wt: 0.04	Wt/hr: 0	.046
Lepisosteus shortnose g	Numbe		Range	Total Weight	Mean Weight	Disposition released
Total	Number: 1	14.76 Number/h		Wt: 3.70	Wt/hr: 4	
Total	Number: I	Number/II	1. 1.1	WC. 3.70	#C/111. 4	
Micropterus smallmouth		er Length	Range	Total Weight	Mean Weight	Disposition
	1	14.17	-0-	1.30	1.300	released
Total	Number: 1	Number/h	r: 1.1	Wt: 1.30	Wt/hr: 1	. 494
Morone chry white bass	sops Numbe	er Length	Range	Total Weight	Mean Weight	Disposition
	1	4.41 5.98	-0-	0.02	0.020 0.120	released released
Total	Number: 2	Number/h	r: 2.3	Wt: 0.14	Wt/hr: 0	.161

Total for 1990-22 Number: 20 Number/hr: 22.99 Wt:39.1 Wt/hr:44.92

Ictiobus cybigmouth bu	prinellı ffalo	ıs		Total	Mean	
•		Number	Length Range	Weight	Weight	Disposition
		1	16.14 -0- 16.54 -0-	2.28 2.23	2.280 2.230	released released
Total	Number	: 2 1	Number/hr: 4.0	Wt: 4.51	Wt/hr: 9	. 020
Pomoxis nig	romacula	tus				
black crapp	ie	Number	Length Range	Total Weight	Mean Weight	Disposition
		1	7.87 -0-	0.28	0.280	released
Total	Number	r: 1 1	Number/hr: 2.0	Wt: 0.28	Wt/hr: 0	.560
Lepomis mac	rochirus	3				
bluegill		Number	Length Range	Total Weight	Mean Weight	Disposition
		3	1.61 1.97	-0-	-0-	released
		1	2.52 -0- 5.12 -0-	-0- 0.08	-0- 0.080	released released
Total	Number	: 5 h	Number/hr: 10.0	Wt: 0.08	Wt/hr: 0	. 160
					-, :	
	rpio				· · · · · · · · · · · · · · · · · · ·	
	rpio	Number	Length Range	Total Weight	Mean Weight	Disposition
	rpio	1	16.22 -0-	Total Weight	Mean Weight	Disposition
	rpio	1 1	16.22 -0- 16.34 -0-	Total Weight 2.00 2.25	Mean Weight 2.000 2.250	released released
	rpio	1 1 1	16.22 -0- 16.34 -0- 16.34 -0-	Total Weight 2.00 2.25 1.80	Mean Weight 2.000 2.250 1.800	released released released
	rpio	1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0-	Total Weight 2.00 2.25 1.80 2.29	Mean Weight 2.000 2.250 1.800 2.290	released released released released
	rpio	1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0-	Total Weight 2.00 2.25 1.80 2.29 1.13	Mean Weight 2.000 2.250 1.800 2.290 1.130	released released released released released
	rpio	1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0-	Total Weight 2.00 2.25 1.80 2.29	Mean Weight 2.000 2.250 1.800 2.290	released released released released
	rpio	1 1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0- 17.01 -0-	Total Weight 2.00 2.25 1.80 2.29 1.13 3.00	Mean Weight 2.000 2.250 1.800 2.290 1.130 3.000	released released released released released
	rpio	1 1 1 1 1 1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0- 17.01 -0- 17.32 -0- 17.52 -0- 17.72 -0-	Total Weight 2.00 2.25 1.80 2.29 1.13 3.00 2.30 2.52	Mean Weight 2.000 2.250 1.800 2.290 1.130 3.000 2.300 2.520 2.520	released released released released released released released
Cyprinus car carp	rpio	1 1 1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0- 17.01 -0- 17.32 -0- 17.52 -0-	Total Weight 2.00 2.25 1.80 2.29 1.13 3.00 2.30 2.52	Mean Weight 2.000 2.250 1.800 2.290 1.130 3.000 2.300 2.520	released released released released released released released
	rpio Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0- 17.01 -0- 17.32 -0- 17.52 -0- 17.72 -0-	Total Weight 2.00 2.25 1.80 2.29 1.13 3.00 2.30 2.52	Mean Weight 2.000 2.250 1.800 2.290 1.130 3.000 2.300 2.520 2.520	released released released released released released released released released
Total Ictalurus p	Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0- 17.01 -0- 17.32 -0- 17.52 -0- 17.72 -0- 17.91 -0-	Total Weight 2.00 2.25 1.80 2.29 1.13 3.00 2.30 2.52 2.50 2.94 Wt:22.73	Mean Weight 2.000 2.250 1.800 2.290 1.130 3.000 2.300 2.520 2.500 2.940 Wt/hr:45.	released released released released released released released released released
Total	Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.85 -0- 17.01 -0- 17.32 -0- 17.52 -0- 17.72 -0- 17.91 -0-	Total Weight 2.00 2.25 1.80 2.29 1.13 3.00 2.30 2.50 2.50 2.94	Mean Weight 2.000 1.800 2.290 1.130 3.000 2.300 2.520 2.500 2.940	released released released released released released released released released
Carp Total Ictalurus p	Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16.22 -0- 16.34 -0- 16.34 -0- 16.73 -0- 16.75 -0- 17.01 -0- 17.32 -0- 17.52 -0- 17.91 -0- Number/hr: 20.0	Total Weight 2.00 2.25 1.80 2.29 1.13 3.00 2.30 2.52 2.50 2.94 Wt:22.73	Mean Weight 2.000 2.250 1.800 2.290 1.130 3.000 2.300 2.520 2.520 2.540 Wt/hr:45.	released released released released released released released released released

ay 1991	1	1990 Electrofishi	ng Summary		Page A- 62
-	Lengths	in inches and w	eights in p	ounds	•
	•				
	1	11.14 -0-	0.44	0.440	released
	1	11.46 -0-	0.49	0.490	released
	1	11.50 -0-	0.44	0.440	released
	1	13.62 -0-	1.74	1.740	released
	1	13.98 -0-	0.84	0.840	released
	1	14.17 -0-	0.91	0.910	released
	ī	14.65 -0-	0.95	0.950	released
	1	14.76 -0-	1.00	1.000	released
	1	15.67 -0-	1.20	1.200	released
	ī	20.28 -0-	3.25	3.250	released
Total Nu	mber: 12	Number/hr: 24.0	Wt:11.90	Wt/hr:23	.800
Notropis atheri	noidea				
emerald shiner	HOTGES		Total	Mean	
3201414 201101	Numbe	er Length Range	Weight	Weight	Disposition
	3	1.46 2.01	-0-	-0-	released
Total Nu	umber: 3	Number/hr: 6.0	Wt: 0.00	Wt/hr: 0	.000
Pylodictis oliv	aris				
flathead catfis	sh		Total	Mean	
	Numbe	er Length Range	Weight	Weight	Disposition
	1	12.20 -0-	0.63	0.630	released
Total Nu	ımber: 1	Number/hr: 2.0	Wt: 0.63	Wt/hr: 1	.260
Aplodinotus gru	nniens				
freshwater drum			Total	Mean	
Treshwater drum	Numbe	er Length Range	Weight	Weight	Disposition
	Number	- Deligen Kange	me i gii c	werghe	Disposition
	3	3.94 4.84	0.09	0.030	released
	i	10.63 -0-	0.52	0.520	released
Total Nu	mber: 4	Number/hr: 8.0	Wt: 0.61	Wt/hr: 1	.220
Dorosoma cepedi	anum		_		
gizzard shad			Total	Mean	
	Numbe	er Length Range	Weight	Weight	Disposition
	3	2.64 3.35	0.04	0.013	released
	2	2.72 3.19	0.13	0.065	released
	1	6.22 -0-	0.09	0.090	released
Total Nu	mber: 6	Number/hr: 12.0	Wt: 0.26	Wt/hr: 0	.520
Micropterus sal	moides				
largemouth bass			Total	Mean	
rardemoren Dass	Numbe	er Length Range	Weight	Weight	Disposition
	1	11.50 -0-	0.77	0.770	released
	ī	14.57 -0-	1.42	1.420	released
	-				

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1990 Electrofishing Summary Lengths in inches and weights in pounds

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Hiodon terg mooneye		Number	Length	Range	Total Weight	Mean Weight	Disposition
		1	12.40	-0-	0.64	0.640	released
Total	Number	: 1	Number/h	r: 2.0	Wt: 0.64	Wt/hr: 1	.280
Lepomis hum:							
orangespotte	ed sunfi	lsh Number	Length	Range	Total Weight	Mean Weight	Disposition
		1	1.81	-0-	-0-	-0-	released
		1	3.43	-0-	0.04	0.040	released
		1	3.58	-0-	0.03	0.030	released
Total	Number	: 3	Number/h	r: 6.0	Wt: 0.07	Wt/hr: 0	.140
Vovostona m							-
	acrolepi	ldotum			Total	Wean	
shorthead re		ldotum Number	Length	Range	Total Weight	Mean Weight	Disposition
			Length 15.16	Range			Disposition
		Number 1		-0-	Weight	Weight	released
shorthead re	Number	Number 1	15.16	-0-	Weight 1.23	Weight 1.230	
shorthead re	Number	Number 1	15.16	-0-	Weight 1.23	Weight 1.230	released
Total Morone chry	Number	Number 1	15.16 Number/h	-0- r: 2.0	Weight 1.23 Wt: 1.23	Weight 1.230 Wt/hr: 2	released
Total	Number	Number 1 Number	15.16 Number/h	-0- r: 2.0	Weight 1.23 Wt: 1.23 Total	Weight 1.230 Wt/hr: 2 Mean	released
Total	Number	Number 1 Number 1	15.16 Number/h	-0- r: 2.0 Range	Weight 1.23 Wt: 1.23 Total Weight	weight 1.230 Wt/hr: 2 Mean Weight	released .460 Dispositio
Total Morone chry	Number	Number 1 Number 1 Number 1	15.16 Number/h: Length	-0- r: 2.0 Range	Weight 1.23 Wt: 1.23 Total Weight 0.04	Weight 1.230 Wt/hr: 2 Mean Weight 0.040	released .460 Dispositio
Total Morone chry	Number	Number 1 Number 1 1 1 1	15.16 Number/h	-0- r: 2.0 Range	Total Weight 0.04 0.04	Weight 1.230 Wt/hr: 2 Mean Weight 0.040 0.040	released Disposition released released
Total	Number	Number 1 Number 1 Number 1	15.16 Number/h: Length 4.02 4.33 10.94	-0- r: 2.0 Range -0- -0-	Weight 1.23 Wt: 1.23 Total Weight 0.04 0.04 0.63	Weight 1.230 Wt/hr: 2 Mean Weight 0.040 0.040 0.630	released .460 Disposition released released released released
Total	Number	Number 1 Number 1 1 1 1 1	15.16 Number/h: Length 4.02 4.33 10.94 11.61	-0- r: 2.0 Range -0- -0- -0-	Weight 1.23 Wt: 1.23 Total Weight 0.04 0.63 0.75	Weight 1.230 Wt/hr: 2 Mean Weight 0.040 0.040 0.630 0.750	released Disposition released released released released released

Total for 1990-23 Number: 57 Number/hr:114.00 Wt:48.5 Wt/hr:97.00

1990 Electrofishing Summary Lengths in inches and weights in pounds

	0 to 27	7.9	Collect		.6. 03/21/3	O Run =	0.97 hrs
Ictiobus cyp	rinellus	3					
bigmouth buf		lumber	Length	Range	Total Weight	Mean Weight	Disposit
	-	1	15.98	-0-	2.50	2.500	released
		i	17.01	-0-	2.80	2.800	released
Total	Number:	2 1	Number/h	r: 2.1	Wt: 5.30	Wt/hr: 5	. 464
Pomoxis nigr		us					
black crappi					Total	Mean	
	N	Jumber	Length	Range	Weight	Weight	Disposit
		1	6.30	-0-	0.13	0.130	released
		1	6.85	-0-	0.18	0.180	released
		1	6.89	-0-	0.18	0.180	released
		1	6.97	-0-	0.17	0.170	released
		1	7.24	-0-	0.22	0.220	released
		1	7.32	-0-	0.22	0.220	released
		1	8.35	-0-	0.37	0.370	released
	_	1	8.82	-0-	0.40	0.400	released
Total	Number:	8 1	Number/h	r: 8.2	Wt: 1.87	Wt/hr: 1	.928
Lepomis macr	ochirus						
bluegill					Total	Mean	
	N	lumber	Length	Range	Weight	Weight	Disposit
	_	1	1.46	-0-	-0-	-0-	released
		1	3.39	-0-	0.02	0.020	released
		5	3.46	4.33	0.20	0.040	released
		3	5.12	5.39	0.32	0.107	released
		3	5.75	6.46	0 56	0.187	released
					0.56		
		1	6.50	-0-	0.22	0.220	released
Total	Number:		6.50	-0-			
Cyprinus car				-0-	0.22 Wt: 1.32	0.220 Wt/hr: 1.	
			Number/h	-0- r: 14.4	0.22 Wt: 1.32	0.220 Wt/hr: 1.	.361
Cyprinus car	pio			-0- r: 14.4	0.22 Wt: 1.32	0.220 Wt/hr: 1.	.361
Cyprinus car	pio	: 14	Number/h	-0- r: 14.4 Range	0.22 Wt: 1.32 Total Weight 0.48	0.220 Wt/hr: 1. Mean Weight 0.480	Disposit
Cyprinus car	pio	: 14 N	Number/h	-0- r: 14.4 Range	0.22 Wt: 1.32 Total Weight	0.220 Wt/hr: 1. Mean Weight 0.480 2.200	Disposit
Cyprinus car	pio	i 14 M	Length	-0- r: 14.4 Range	0.22 Wt: 1.32 Total Weight 0.48	0.220 Wt/hr: 1. Mean Weight 0.480	Disposit released released released
Cyprinus car	pio	14 N	Length 9.76 15.83	-0- r: 14.4 Range	0.22 Wt: 1.32 Total Weight 0.48 2.20	0.220 Wt/hr: 1. Mean Weight 0.480 2.200	Disposit
Cyprinus car	pio	14 N	Length 9.76 15.83 15.91	Range	0.22 Wt: 1.32 Total Weight 0.48 2.20 1.98	Mean Weight 0.480 2.200 1.980 1.920 2.040	Disposit released released released
Cyprinus car	pio	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Length 9.76 15.83 15.91 15.98	Range -00000-	0.22 Wt: 1.32 Total Weight 0.48 2.20 1.98 1.92	Mean Weight 0.480 2.200 1.980 1.920	Disposit released released released released
Cyprinus car	pio	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Length 9.76 15.83 15.91 15.98 16.10	Range -000000-	Total Weight 0.48 2.20 1.98 1.92 2.04	Mean Weight 0.480 2.200 1.980 1.920 2.040	Disposit. released released released released released
Cyprinus car	pio	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Length 9.76 15.83 15.91 15.98 16.10 16.93	-0- r: 14.4 Range -0- -0- -0- -0- -0-	0.22 Wt: 1.32 Total Weight 0.48 2.20 1.98 1.92 2.04 2.17	0.220 Wt/hr: 1. Mean Weight 0.480 2.200 1.980 1.920 2.040 2.170	Disposit: released released released released released released

y 1991		199	0 Elect	rofishir	ng Sur	mmary		Page A- 65
	L	engths i	in inche	s and we	ight	s in p	ounds	
		1	17.80	-0-		3.15	3.150	released
		ī	17.95	-0-		2.49	2.490	released
		ī	18.11	-0-		2.68	2.680	released
		î	18.31	-0-		3.50	3.500	released
		ī	18.50	-0-		2.95	2.950	released
		ī	19.37	-0-		4.14	4.140	released
Total	Numbe	r: 15 h	lumber/h	r: 15.5	Wt:	37.16	Wt/hr:38	.309
Ictalurus p		s			-			
channel cat	fish					otal	Mean	
		Number	Length	Range	We	sight	Weight	Disposition
		1	9.65	-0-		0.28	0.280	released
		1	10.43	-0-		1.35	1.350	released
		1	11.81	-0-		0.51	0.510	released
		1	12.24	-0-		0.62	0.620	released
		1	12.32	-0-		0.54	0.540	released
		1	12.99	-0-		0.65	0.650	released
		1	16.22	-0-		1.22	1.220	released
		1	17.24	-0-		2.17	2.170	released
Total	Numbe	r: 8 1	/umber/h	r: 8.2	Wt:	7.34	Wt/hr: 7	. 567
Notropis at	herinoi	des						
emerald shi					T	otal	Mean	
		Number	Length	Range	We	eight	Weight	Disposition
		1	1.97	-0-	_	-0-	-0-	released
Total	Numbe	r: 1 h	lumber/h	r: 1.0	Wt:	0.00	Wt/hr: 0	.000
Pylodictis (8			_			
flathead car	tfish			_		otal	Mean	
		Number	Length	Range	We	eight	Weight	Disposition
		1	13.86	-0-		0.90	0.900	released
		1	26.77	-0-		9.00	9.000	released
Total	Numbe	r: 2 h	lumber/h	r: 2.1	Wt:	9.90	Wt/hr:10	.206
Aplodinotus		ens						
freshwater	drum		_			otal	Mean	
		Number	Length	Range	W	eight	Weight	Disposition
		1	5.00	-0-		0.03	0.030	released
		1	7.20	-0-		0.15	0.150	released
		1	7.40	-0-		0.17	0.170	released
		1	7.60	-0-		0.20	0.200	released
		1	12.05	-0-		0.80	0.800	released
Total	Numbe	r: 5 h	lumber/h	r: 5.2	Wt:	1.35	Wt/hr: 1	. 392
Dorosoma ce	pedianu	m						
gizzard sha					T	otal	Mean	
-		Number	Length	Range	We	eight	Weight	Diaposition
					_			

May 1991		0 Electrofishin n inches and we		ounds	Page A- 66
	46 17 1	2.48 3.19 3.19 3.94 6.50 -0-	0.46 0.28 0.08	0.010 0.016 0.080	released released released
Total Numl	per: 64 N	Number/hr: 66.0	Wt: 0.82	Wt/hr: 0	.845
Micropterus salmo	oides Number	Length Range	Total Weight	Mean Weight	Disposition
	1 1 1 1	9.41 -0- 11.69 -0- 12.83 -0- 17.13 -0-	0.45 0.88 1.24 2.95	0.450 0.880 1.240 2.950	released released released released
Total Numi	per: 4 N	umber/hr: 4.1	Wt: 5.52	Wt/hr: 5.	.691
Morone chrysops white bass	Number	Length Range	Total Weight	Mean Weight	Disposition
	1 1 1	6.34 -0- 10.43 -0- 13.46 -0- 14.29 -0-	0.09 0.56 1.16 1.49	0.090 0.560 1.160 1.490	released released released released
Total Numl	per: 4 N	Number/hr: 4.1	Wt: 3.30	Wt/hr: 3	402

Total for 1990-24 Number:127 Number/hr:130.93 Wt:73.9 Wt/hr:76.16

	le	tus Numbe:	r Length	Range	Total Weight	Mean Weight	Dispositi
		1	9.65	-0-	0.51	0.510	released
Total	Number	: 1	Number/h	r: 1.0	Wt: 0.51	Wt/hr: 0.	510
Lepomis macı	cochirus						
bluegill					Total	Mean	
		Number	r Length	Range	Weight	Weight	Dispositi
		3	1,50	1.97	-0-	-0-	released
		ĭ	3.46	-0-	0.02	0.020	released
		ī	4.33	-o-	0.05	0.050	released
		ī	5.59	-0-	0.13	0.130	released
Total	Number	: 6	Number/h	r: 6.0	Wt: 0.20	Wt/hr: 0.	200
Cyprinus can	rpio						
carp	-				Total	Mean	
-		Number	r Length	Range	Weight	Weight	Dispositi
		1	12.13	-0-	0.85	0.850	released
		ĩ	13.58	-0-	1.11	1.110	released
		ī	14.92	-0-	1.50	1.500	released
		ī	16.06	-0-	2.02	2.020	released
		ī	16.18	-0-	1.87	1.873	released
		1	16.22	-0-	1.88	1.880	released
		1	16.26	-0-	2.14	2.140	released
		1	16.30	-0-	2.19	2.190	released
		1	16.30	-0-	2.05	2.050	released
		1	16.34	-0-	2.22	2.220	released
		1	16.85	-0-	2.43	2.430	released
		1	17.60	-0-	2.52	2.520	released
		1	17.64	-0-	2.61	2.610	released
		1	17.80	-0-	2.81	2.810	released
		1	17.80	-0-	3.06	3.060	released
		1	17.80	-0-	2.40	2.400	released
		1	17.83	-0-	2.71	2.710	released
		1	18.90	-0-	3.00	3.000	released
		1	19.09 21.06	-0- -0-	3.56 4.23	3.560 4.230	released released
Total	Number		Number/h:		Wt:47.16	Wt/hr:47.	

y 1991		199	an Flact	rofichir	g Summary		Page A- 68
., .,,,	L				ights in p	ounds	rage n co
		1	9.57	-0-	0.26	0.260	released
		ī	11.34	-0-	0.42	0.420	released
		ī	12.40	-0-	0.55	0.550	released
		ī	12.44	-0-			released
		i		-0-	0.54	0.540	released
		1	12.52		0.53	0.530	
			12.60	-0-	0.57	0.570	released
		1	12.60	-0-	0.58	0.580	released
		1	12.76	-0-	0.62	0.620	released
		1	12.91	-0-	0.67	0.670	released
		1	12.99	-0-	0.67	0.670	released
		1	13.39	-0-	0.76	0.760	released
		1	13.46	-0-	0.73	0.730	released
		1	13.58	-0-	0.75	0.750	released
		1	13.78	-0-	0.83	0.830	released
		1	14.80	-0-	1.02	1.020	released
		1	15.35	-0-	1.21	1.210	released
		1	16.22	-0-	1.30	1.300	released
		1	16.73	-0-	1.74	1.740	released
Total	Numbe	r: 18 1	Number/h	r: 18.0	Wt:13.75	Wt/hr:13	.750
Notropis ath		des					
emerald shin	er				Total	Mean	
		Number	Length	Range	Weight	Weight	Disposition
		2	2.01	2.20	-0-	-0-	preserved released
Total	Numbe		2.09	-0-	-0-	-0-	released
Total	Numbe			-0-			released
Pylodictis o	livari	1 r: 3 1	2.09	-0-	-0- Wt: 0.00	-0- Wt/hr: 0	released
	livari	1 r: 3 1	2.09 Number/h	-0- r: 3.0	-0- Wt: 0.00	-0- Wt/hr: 0	released
Pylodictis o	livari	1 r: 3 1	2.09	-0- r: 3.0	-0- Wt: 0.00	-0- Wt/hr: 0	released
Pylodictis o	livari	1 r: 3 1	2.09 Number/h	-0- r: 3.0	-0- Wt: 0.00	-0- Wt/hr: 0	released
Pylodictis o	livari	1 r: 3 ! s	2.09 Number/hi	-0- r: 3.0 Range	Total Weight	-0- Wt/hr: 0 Mean Weight	Disposition released
Pylodictis of flathead cat	livari fish Numbe	1 s s s s s s s s s s s s s s s s s s s	2.09 Number/hi	-0- r: 3.0 Range	Total Weight 0.19	Mean Weight 0.190	Disposition released
Pylodictis of flathead cat Total Aplodinotus	livari: fish Numbe:	1 s s s s s s s s s s s s s s s s s s s	2.09 Number/hi	-0- r: 3.0 Range	Total Weight 0.19	Wt/hr: 0 Mean Weight 0.190 Wt/hr: 0	Disposition released
Pylodictis o flathead cat Total	livari: fish Numbe:	1 s s s s s s s s s s s s s s s s s s s	2.09 Number/hi	-0- r: 3.0 Range -0- r: 1.0	Total Weight 0.19	Mean Weight 0.190	Disposition released
Pylodictis of flathead cat Total Aplodinotus	livari: fish Numbe:	Number 1 r: 1 Pens Number 2	2.09 Number/hi Length 8.35 Number/hi Length 3.31	Range -0- r: 1.0 Range 3.74	Total Weight 0.19 Wt: 0.19 Total Weight 0.19 Total Weight 0.03	Wt/hr: 0 Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.015	released .000 Disposition released .190 Disposition released
Pylodictis of flathead cat Total Aplodinotus	livari: fish Numbe:	1	Length 8.35 Number/hi Length 3.31 4.21	Range -0- r: 1.0 Range 3.74 4.72	Total Weight 0.19 Wt: 0.19 Total Weight 0.19 Total Weight 0.03 0.08	Wt/hr: 0 Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.015 0.027	Disposition released .190 Disposition released released released
Pylodictis of flathead cat Total Aplodinotus	livari: fish Numbe:	Number 1 r: 1 Pens Number 2	2.09 Number/hi Length 8.35 Number/hi Length 3.31	Range -0- r: 1.0 Range 3.74	Total Weight 0.19 Wt: 0.19 Total Weight 0.19 Total Weight 0.03	Wt/hr: 0 Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.015	Disposition Disposition Disposition Disposition Disposition Teleased
Pylodictis of flathead cat Total Aplodinotus	livari: fish Numbe:	1	Length 8.35 Number/hi Length 3.31 4.21	Range -0- r: 1.0 Range 3.74 4.72	Total Weight 0.19 Wt: 0.19 Total Weight 0.19 Total Weight 0.03 0.08	Wt/hr: 0 Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.015 0.027	Disposition released .190 Disposition released released released
Pylodictis of flathead cat Total Aplodinotus	livari: fish Numbe:	1 r: 3 ! s s s s s s s s s s s s s s s s s s	Length 8.35 Number/hi Length 3.31 4.21 9.76	-0- r: 3.0 Range -0- r: 1.0 Range 3.74 4.72 -0-	-0- Wt: 0.00 Total Weight 0.19 Wt: 0.19 Total Weight 0.03 0.08 0.46	Wt/hr: 0 Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.015 0.027 0.460	Disposition released .190 Disposition released released released released
Pylodictis of flathead cat Total Aplodinotus of freshwater di Total Dorosoma cep	livari fish Numbe: grunni rum Numbe: edianu	1	2.09 Number/hi Length 8.35 Number/hi Length 3.31 4.21 9.76 11.18	-0- r: 3.0 Range -0- r: 1.0 Range 3.74 4.72 -0-	Total Weight 0.19 Total Weight 0.19 Total Weight 0.03 0.08 0.46 0.70 Wt: 1.27	Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.00 Mean Weight 0.015 0.027 0.460 0.700 Wt/hr: 1	Disposition released .190 Disposition released released released released
Pylodictis o flathead cat Total Aplodinotus freshwater d	livari fish Numbe: grunni rum Numbe: edianu	1	2.09 Length 8.35 Number/hi	-0- r: 3.0 Range -0- r: 1.0 Range 3.74 4.72 -00- r: 7.0	Total Weight 0.19 Wt: 0.19 Total Weight 0.19 Total Weight 0.03 0.08 0.46 0.70	Wt/hr: 0 Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.015 0.025 0.460 0.700	Disposition released .190 Disposition released
Pylodictis of flathead cat Total Aplodinotus of freshwater di Total Dorosoma cep	livari fish Numbe: grunni rum Numbe: edianu	1	2.09 Number/hi Length 8.35 Number/hi Length 3.31 4.21 9.76 11.18	-0- r: 3.0 Range -0- r: 1.0 Range 3.74 4.72 -00- r: 7.0	Total Weight 0.19 Total Weight 0.19 Total Weight 0.03 0.08 0.46 0.70 Wt: 1.27	Mean Weight 0.190 Wt/hr: 0 Mean Weight 0.00 Mean Weight 0.015 0.027 0.460 0.700 Wt/hr: 1	Disposition released .190 Disposition released released released released
Pylodictis of flathead cat Total Aplodinotus of freshwater di Total Dorosoma cep	livari fish Numbe: grunni rum Numbe: edianu	1 r: 3 ! s Number 1 r: 1 ! ens Number 2 3 1 1 r: 7 !	2.09 Length 8.35 Number/hi	-0- r: 3.0 Range -0- r: 1.0 Range 3.74 4.72 -00- r: 7.0	Total Weight 0.19 Total Weight 0.19 Wt: 0.19 Total Weight 0.03 0.08 0.46 0.70 Wt: 1.27	Mean Weight 0.190 Wt/hr: 0 Weight 0.015 0.027 0.460 0.700 Wt/hr: 1	Disposition released .190 Disposition released
Pylodictis of flathead cat Total Aplodinotus of freshwater di Total Dorosoma cep	livari fish Numbe: grunni rum Numbe: edianu	1	Length 3.31 4.21 9.76 11.18 Number/hi	-0- r: 3.0 Range -0- r: 1.0 Range 3.74 4.72 -0- r: 7.0 Range	Total Weight 0.09 Total Weight 0.19 Wt: 0.19 Total Weight 0.03 0.08 0.46 0.70 Wt: 1.27 Total Weight	Mean Weight 0.190 Wt/hr: 0 Weight 0.015 0.700 Wt/hr: 1 Mean Weight 0.015 0.460 Wt/hr: 1	Disposition released

Total	Number	:: 12	Number/hr:	12.0	Wt: 0.92	Wt/hr: 0	.920
Micropterus	salmoid	les					
largemouth 1	Dass				Total	Mean	
		Numbe	r Length F	langė	Weight	Weight	Dispositio
		1	2.83 -	-0-	-0-	-0-	released
		1	7.28 -	-0-	0.20	0.200	released
Total	Number	: 2	Number/hr:	2.0	Wt: 0.20	Wt/hr: 0	.200
Hybopsis sto	oreriana	1					
silver chub					Total	Mean	
		Numbe	r Length F	lange	Weight	Weight	Dispositio
		1	2.32 -	-0-	-0-	-0-	released
Total	Number	: 1	Number/hr:	1.0	Wt: 0.00	Wt/hr: 0	.000
Dorosoma pet							
threadfin sh	nad				Total	Mean	
		Numbe	r Length F	lange	Weight	Weight	Dispositio
		2	3.19	3.43	-0-	-0-	preserved
		2	3.27	3.46	0.01	0.005	released
Total	Number	: 4	Number/hr:	4.0	Wt: 0.01	Wt/hr: 0	.010
Carpiodes cy	prinus						
quillback	_				Total	Mean	
		Numbe	r Length F	lange	Weight	Weight	Dispositio
		1	8.62 -	-0-	0.34	0.340	released
Total	Number	: 1	Number/hr:	1.0	Wt: 0.34	Wt/hr: 0	.340
Morone chrys	sops						
white bass					Total	Mean	
		Numbe	r Length F	tange	Weight	Weight	Dispositio
		2	3.54	4.06	0.04	0.020	released
		1		-0-	0.86	0.860	released
		1	12.76 -	-0-	0.97	0.970	released
		1	12.83 -	-0-	1.07	1.070	released

Total for 1990-25 Number: 81 Number/hr: 81.00 Wt:67.5 Wt/hr:67.49

Pomoxis nigromacu	lat	us							
black crappie	N	umber	Length	Ran	ge		otal eight	Mean Weigh	Disposit
		1	7.91	-0-			0.32	0.32	released
		1	9.21	-0-			0.46	0.460	released
		1	9.76	-0-			0.52	0.520	released
		1	10.12	-0-			0.66	0.660	released
		1	10.20	-0-			0.74	0.740	released
		1	10.43	-0-			0.72	0.72	released
Total Numb	er:	6	Number/h	r:	6.0	Wt:	3.42	Wt/hr:	3.420
Cyprinus carpio									
carp				_			otal	Mean	
	N	umber	Length	Ran	ge	W-	eight	Weight	Disposit
		1	9.57	-0-			0.49	0.496	released
		ī	10.04	-0-			0.58	0.580	
		ī	13.98	-0-			1.30	1.30	
		ī	14.37	-0-			1.73	1.73	released
		ī	14.45	-0-			1.45	1.450	
		ī	17.72	-0-			3.05	3.050	
		ī	17.91	-0-			2.61	2.610	
		ī	18.31	-0-			2.75	2.75	
		ī	18.43	-0-			2.90	2.900	
		î	18.54	-0-			3.12	3.120	
		ī	22.44	-0-			5.00	5.000	
Total Numb	er:	11	Number/hi	r: 1	1.0	Wt:	24.98	Wt/hr:2	24.980
Ictalurus punctat	us								
channel catfish	N	umber	Length	Ran	ge		otal aight	Mean Weight	Disposit
	_	1	8.07	-0-		_	0.17	0.170	released
		ī	8.86	-0-			0.18	0.180	
		ī	9.25	-0-			0.24	0.240	
		ī	9.92	-0-			0.27	0.27	
		ī	12.28	-0-			0.55	0.550	
		i	12.99	-0-			0.61	0.610	
		i	16.54	-0-			1.10	1.100	
		ī	19.88	-0-			2.65	2.650	
Total Numb	er:	8	Number/hr	:	в.о	Wt:	5.77	Wt/hr:	5.770

1990 Electrofishing Summary Lengths in inches and weights in pounds

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		1	12.48 16.18	-0- -0-	0.88 2.18	0.880 2.180	released released
Total	- Number:	2	Number/h:	r: 2.0	Wt: 3.06	Wt/hr: 3	3.060
Dorosoma cepe	dianum						
gizzard shad					Total	Mean	
,	N	umber	Length	Range	Weight	Weight	Disposition
	_						
		11	2.60	2.95	0.11	0.010	released
		44	2.72	3.23	0.60	0.014	released
		23	2.76	3.50	0.30	0.013	released
		96	2.99	3.66	1.50	0.016	released
		94	3.23	3.94	1.52	0.016	released
		14	3.39	3.74	0.23	0.016	released
		31	3.54	3.94	0.64	0.021	released
		14	3.58	4.09	0.25	0.018	released
		7	3.70	4.37	0.14	0.020	released
		37	3.74	4.76	0.92	0.025	released
		21	4.02	5.67	0.65	0.031	released
		7	4.09	4.88	0.21	0.030	released
		2	5.51	5.51	0.12	0.060	released
		ī	6.10	-0-	0.05	0.050	released
		3	6.85	7.48	0.40	0.133	released
		1	6.97	-0-	0.10	0.100	released
		2	9.21	9.53	0.58	0.290	released
Total	Number:	408	Number/h	r:408.0	Wt: 8.32	Wt/hr: 8	.320
Micropterus s		18					
largemouth ba					Total	Mean	
	N	umber	Length	Range	Weight	Weight	Disposition
		1	7.95	-0-	0.27	0.270	released
		1	11.02	-0-	0.63	0.630	released
		1	11.30	-0-	0.82	0.820	released
		1	12.09	-0-	0.98	0.980	released
		1	13.54	-0-	1.35	1.350	released
		1	14.37	-0-	1.56	1.560	released
Total	Number:	6 1	Number/hi	6.0	Wt: 5.61	Wt/hr: 5	.610
Notropis huds							
spotail shine					Total	Mean	
	N	umber	Length	Range	Weight	Weight	Disposition
		1	1.34	-0-	-0-	-0-	released
Total	Number:	1 1	Number/hi	: 1.0	Wt: 0.00	Wt/hr: 0	.000
Carpiodes cyp	rinus						
quillback					Total	Mean	
-	N	umber	Length	Range	Weight	Weight	Disposition

9.92 -0-9.96 -0-

0.50

0.500

1990 Electrofishing Summary Lengths in inches and weights in pounds

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Total	Numbe	r: 2	Number/h	r: 2.0	Wt: 0.96	Wt/hr: 0	.960
Morone chrys white bass	sops	Number	Length	Range	Total Weight	Mean Weight	Disposition
		1	5.71 6.69	-0-	0.12 0.11	0.120 0.110	released released
Total	Numbe	r: 2	Number/h	r: 2.0	Wt: 0.23	Wt/hr: 0	.230
Pomoxis annu white crappi		Number	: Length	Range	Total Weight	Mean Weight	Disposition
		1	9.45	-0-	0.46	0.460	released released
		1	10.24	-0-	0.65	0.650	released released
		1	10.87	-0-	0.68 0.75	0.680 0.750	released released
		1 1 1	10.98 11.26	-0- -0-	0.78 0.80	0.780 0.800	released released
		1 1 1	11.73 11.77 12.80	-0- -0-	0.83 0.91 1.31	0.830 0.910 1.310	released released released
Total	Numbe		Number/h		Wt: 8.34	Wt/hr: 8	

Total for 1990-26 Number:457 Number/hr:457.00 Wt:60.7 Wt/hr:60.69

Collection 19	90-27	Dark Chut	.e		
River mile	24.4 to	25.5	Collection dat	e: 09/28/90	Run = 1.04 hrs

Ictiobus cyprinel	lus					
bigmouth buffalo	Number	Length	Pango	Total Weight	Mean Weight	Dispositio
		Deligen	Kange	Weight	Welgite	DISPOSICIO
	1	15.83	-0-	2.22	2.220	released
	1	16.14	-0-	2.40	2.400	released
	1	16.73	-0-	2.73	2.730	released
	1	17.64	-0-	3.14	3.140	released
	1	19.09	-0-	4.02	4.020	released
Total Numb	er: 5 N	lumber/h	r: 4.8	Wt:14.51	Wt/hr:13	.952
Pomoxis nigromacu	latus					
black crappie				Total	Mean	
	Number	Length	Range	Weight	Weight	Disposition
	1	6.73	-0-	0.17	0.170	released
	1	7.52	-0-	0.20	0.200	released
	1	7.52	-0-	0.25	0.250	released
	1	8.19	-0-	0.26	0.260	released
	1	9.06	-0-	0.48	0.480	released
	1	11.02	-0-	0.76	0.760	released
	1	11.54	-0-	0.87	0.870	released
Total Numb	er: 7 N	lumber/h	r: 6.7	Wt: 2.99	Wt/hr: 2	.875
Lepomis macrochir	us					
bluegill				Total	Mean	
	Number	Length	kange	Weight	Weight	Disposition
	1	1.54	-0-	-0-	-0-	released
	6	1.69	2.17	0.02	0.003	released
	4	2.68	3.43	0.09	0.023	released
	5	4.06	4.33	0.23	0.046	released
	2	4.92	4.96	0.16	0.080	released
	2 2	5.08 5.98	5.75 7.09	0.23	0.115 0.210	released released
Total Numb	er: 22 N	umber/h	r: 21.2	Wt: 1.15	Wt/hr: 1	. 106
Cyprinus carpio		<u>_</u>			_ <u></u>	*
carp				Total	Mean	
•	Number	Length	Range	Weight	Weight	Disposition
	1	14.61	-0-	1.40	1.400	released
	1	14.72	-0-	1.40	1.400	released
	1	15.24	-0-	1.76	1.760	released
	1	15.24	-0-	2.58	2.580	released
	_			2 25		
	1	15.91	-0-	2.05	2.050	released

May 1991	19	90 Electrofishi	ng Summary		Page A- 74
1	Lengths	in inches and w	eights in p	ounds	
	1	16.61 -0-	2.13	2.130	released
	1	16.65 -0-	2.13	2.130	released
	i	16.65 -0-	1.90	1.900	released
	ī	16.93 -0-	2.21	2.210	released
	1	17.01 -0-	2.14	2.140	released
	1	17.13 -0-	2.60	2.600	released
	1	17.17 -0-	2.21	2.210	released
	1	17.17 -0-	2.54	2.540	released
	1	17.52 -0-	2.46	2.460	released
	1	17.60 -0-	2.56	2.560	released
	1	18.07 -0- 18.27 -0-	2.98	2.980	released
	1		2.65	2.650 3.720	released released
		19.37 -0-	3.72	3.720	Leteased
Total Number	er: 19	Number/hr: 18.3	Wt:43.37	Wt/hr:41	.702
Ictalurus punctati	18				
channel catfish			Total	Mean	
	Number	Length Range	Weight	Weight	Disposition
	1	11.93 -0-	0.54	0.540	released
	i	12.76 -0-	0.64	0.640	released
	i	12.80 -0-	0.84	0.840	released
	ī	13.31 -0-	0.68	0.680	released
	î	13.43 -0-	0.77	0.770	released
	ī	14.33 -0-	0.90	0.900	released
	ī	14.45 -0-	0.97	0.970	released
	ī	15.31 -0-	1.07	1.070	released
	1	17.32 -0-	1.67	1.670	released
	1	19.13 -0-	2.80	2.800	released
Total Number	er: 10	Number/hr: 9.6	Wt:10.88	Wt/hr:10	.462
Aplodinotus grunn	ane				
freshwater drum	Lens		Total	Mean	
	Number	Length Range	Weight	Weight	Disposition
		Deligen Mange			
	1	3.74 -0-	0.02	0.020	released
	2	7.28 7.36	0.33	0.165	released
	1	8.46 -0-	0.23	0.230	released
Total Number	er: 4	Number/hr: 3.8	Wt: 0.58	Wt/hr: 0	.558
Lepomis cyanellus					
green sunfish			Total	Mean	
3	Number	Length Range	Weight	Weight	Disposition
	1	6.73 -0-	0.17	0.170	released
Total Number	er: 1	Number/hr: 1.0	Wt: 0.17	Wt/hr: 0	.163
Dorosoma cepedian	170				
gizzard shad			Total	Mean	
, biida	Number	Length Range	Weight	Weight	Disposition
	1	3.39 -0-	-0-	-0-	released
	1	4.80 -0-	0.02	0.020	released

ay 1991	Le			shing Summary d weights in p	pounds	Page A- 75
		1	6.93 -0-	0.09	0.090	released
		1	7.87 -0-	0.17	0.170	released
		1	9.84 -0-	0.36	0.360	released
		1	10.16 -0-	0.32	0.320	released
Total	Number	: 6 h	umber/hr:	5.8 Wt: 0.96	Wt/hr: 0	. 923
Micropterus		les				
largemouth 1			* P	Total	Mean	Diamontata
		Number	Length Ran	ge Weight	Weight	Disposition
		1	5.67 -0-	0.05	0.050	released
		1	8.54 -0-	0.31	0.310	released
		1	10.63 -0-	0.54	0.540	released
		14	11.50 -0-	0.87	0.062	released
		1	11.65 -0-	0.86	0.860	released
		1	11.97 -0-	1.00	1.000	released
		1	12.83 -0-	1.07	1.070	released
		1	14.96 -0-	1.85	1.850	released
		1	15.00 -0-	1.81	1.810	released'
		1	15.39 -0-	2.34	2.340	released
		1	15.47 -0-	1.95	1.950	released
		1	16.54 -0-	2.68	2.680	released
		ī	16.81 -0-	2.95	2.950	released
		1	16.85 -0-	2.52	2.520	released
Total	Number	: 27 N	umber/hr: 2	6.0 Wt:20.80	Wt/hr:20	. 000
Hiodon terg	isus					
mooneye				Total	Mean	
		Number	Length Ran	ge Weight	Weight	Disposition
		1	10.47 -0-	0.34	0.340	preserved
Total	Number	: 1 1	umber/hr:	1.0 Wt: 0.34	Wt/hr: 0	. 327
Stizostedio	n canade	ense				
sauger		Number	Length Ran	ge Weight	Mean Weight	Disposition
		1	13.98 -0-	8.80	8.800	released
	Number	: 1 1	umber/hr:	1.0 Wt: 8.80	Wt/hr: 8	.462
Total						
Moxostoma m	acrolepi	dotum				
	acrolepi edhorse	dotum Number	Length Ran	Total ge Weight	Mean Weight	Disposition
Moxostoma m	acrolepi edhorse		Length Ran			Disposition

Total

Weight

0.10

Mean

Weight

0.017

Disposition

preserved

Dorosoma petenense threadfin shad

Number

6

Length Range

3.78

2.95

1990 Electrofishing Summary Lengths in inches and weights in pounds

Total	Number	: 6	Number/hr	: 5.8	Wt:	0.10	Wt/hr: 0	.096
Carpiodes cy	prinus							
quillback	-					otal	Mean	D1151
		Numbe	r Length	Range	We	ight	Weight	Disposition
		1	11.65	-0-		0.75	0.750	released
Total	Number	: 1	Number/hr	: 1.0	Wt:	0.75	Wt/hr: 0	.721
Morone chrys	ops							
white bass		Numbe	r Length	Danes		otal sight	Mean Weight	Disposition
		ишшье	r Length	Range	W-C	argne	Weight	DISPOSICION
		1	4.88	-0-		0.04	0.040	released
		1	11.65	-0-		0.79	0.790	released
		1	11.89	-0-		0.91	0.910	released
		1	12.01	-0-		0.81	0.810	released
		1	12.95	-0-		1.08	1.080	released
		1	13.27	-0-		1.14	1.140	released
		1	14.25	-0-		1.52	1.520	released
		1	14.80	-0-		1.67	1.670	released
Total	Number	: 8	Number/hr	: 7.7	Wt:	7.96	Wt/hr: 7	.654
Pomoxis annu white crapp:		Numbe	r Length	Range		otal sight	Mean Weight	Disposition
		1	6.93	-0-	_	0.15	0.150	released
		ī		-0-		0.73	0.730	released
Total	Number	: 2	Number/hr	: 1.9	Wt:	0.88	Wt/hr: 0	.846
Morone miss:	issippie	nsis						•
vellow bass					To	otal	Mean	
•		Numbe	r Length	Range	We	eight	Weight	Disposition
		1	7.36	-0-		0.24	0.240	released
				: 1.0				.231





