

GEOLOGICAL SURVEY OF ALABAMA

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WATER INVESTIGATIONS PROGRAM

A SURVEY OF ALABAMA'S COASTAL RIVERS AND STREAMS FOR FISHES OF CONSERVATION CONCERN, 2004-05

OPEN-FILE REPORT 0518

by

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INTRODUCTION

A symposium was recently convened to compile and synthesize the best available information about Alabama's wildlife, including fishes, with the intent of ranking all vertebrate and aquatic mollusk wildlife relative to their conservation status (highest to lowest conservation concern) in the state (Mirarchi, 2004). Alabama's coastal region was identified as an area of critical conservation concern because it is drained by a vast network of streams, bayous, rivers, and wetlands that are home to a diverse assemblage of plants and animals, many of which are rare and(or) in need of conservation action. Future protection plans for Alabama's coastal wildlife will require accurate data concerning the occurrence and distribution of species, their life history requirements, and data concerning threats to their habitats and survival.

The distribution and occurrence of fishes in Alabama's coastal aquatic environments are based on a few drainage or region-specific surveys and from general sampling by students and agencies (Mettee and others, 1996; Boschung and Mayden, 2004). The larger river and stream fauna is generally not represented in some of the earlier fish surveys because for the most part only small wadeable streams were sampled. Several early collections of fishes were made in the Escambia River system (Bollman, 1886; Gilbert, 1891), but Bailey and others (1954) were the first to conduct a methodical survey of that river system in relatively modern times. Thirteen sites were sampled in Alabama with only a few of these sites in larger stream channels (Big Escambia Creek and Murder Creek). Hemphill (1960) conducted the first comprehensive survey of fishes across Alabama's Coastal Plain, sampling 83 sites in Mobile, Baldwin, and Escambia Counties. Beckham (1973) completed a synoptic survey of the Escatawpa River at 49 sites in Mississippi and Alabama, reporting 67 species included 11 species found primarily in brackish or marine habitats. Swingle and Bland (1974) conducted the first comprehensive survey of fishes in Alabama's coastal watercourses. Monthly trawl and seine samples were collected at 23 brackish water stations in tributaries to Mobile Bay, Mobile-Tensaw River Delta, Mississippi Sound, and Wolf Bay, yielding 104 species of fishes. These authors reported that about equal numbers of marine, estuarine, and freshwater fish species were taken at most sites but that marine and estuarine fishes comprised more than 95 percent of the catch.

The Geological Survey of Alabama (GSA) began work in Alabama's coastal streams in the early 1980s. Mettee and others (1983) conducted biological monitoring studies in streams draining the Gilbertown, Citronelle, and Pollard oil fields in south Alabama, while O'Neil and others (1984) reported results of fish biomonitoring efforts in streams around the Citronelle oil field. The Citronelle oil field is drained by tributaries of the Escatawpa and Mobile Rivers, while the Pollard field is drained by tributaries to Little Escambia and Big Escambia Creeks. Mettee and others (1993) compiled data in published studies, collection records from southeastern museums, and new collection data into an unpublished summary list of fishes of the Mobile-Tensaw River Delta, tributaries to Mobile Bay, and Perdido River system.

This study reports sampling results of years one and two of a three-year survey of fishes in selected Alabama coastal river systems focusing, in part, on species recognized as highest or high conservation concern by Mirarchi and others (2004) and on habitats and stream reaches that have not been adequately sampled in past surveys.

ACKNOWLEDGMENTS

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STUDY AREA AND METHODS

Fish samples were collected from 85 sites in four areas of Alabama's coastal region: the Escatawpa River main channel, tributaries to the lower Mobile-Tensaw River Delta and Tensaw River main channel, lower Fish River in the Weeks Bay system, and the Perdido River system including the Perdido main channel, Blackwater River, and Styx River (fig. 1, table 1). All four areas were sampled in 2004, but only the Mobile-Tensaw area and Perdido area were sampled

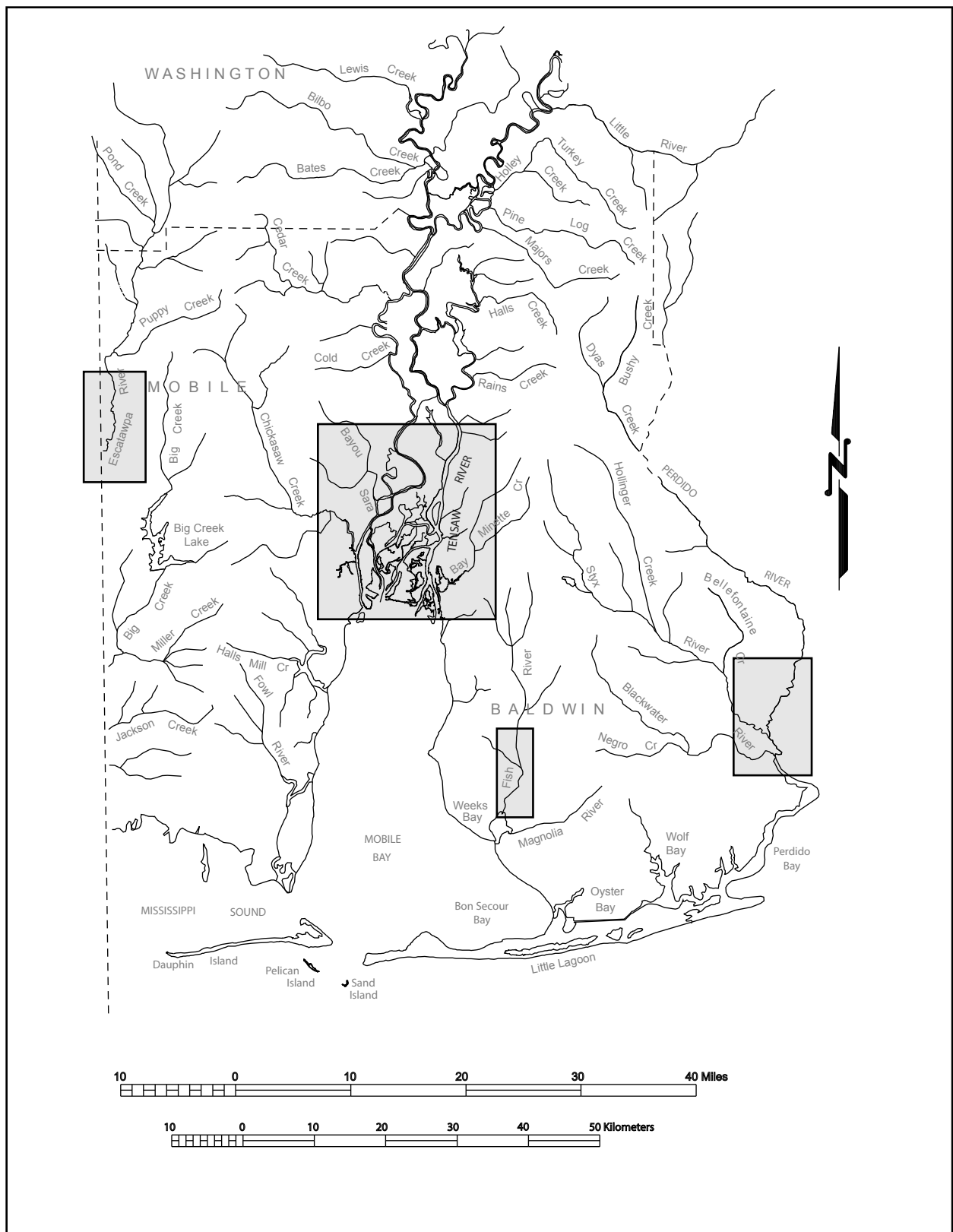


Figure 1. Study areas in the Alabama coastal region.

Table 1. Locations of fish sampling sites in the Escatawpa, Mobile-Tensaw, Fish, and Perdido River systems, 2004-05.

Site no.	GSA no.	Site name	Location		Date	Sample time	Method
			Section, Township, Range	Latitude/Longitude (decimal degrees)			
Escatawpa River System							
E-1	2983	Escatawpa River nr. Powell Creek	sec. 8, T. 2 S., R. 4 W.	30.8954 - 88.4019	March 25, 2004	1000-1120	Electroboat
E-2	2982	Escatawpa River	sec. 8, T. 2 S., R. 4 W.	30.8875 - 88.4019	March 25, 2004	1130-1210	Electroboat
E-3	2981	Escatawpa River @ Brushy Creek	sec. 8, T. 2 S., R. 4 W.	30.8815 - 88.4041	March 25, 2004	1345-1410	Electroboat
E-4	2979	Escatawpa River	sec. 17, T. 2 S., R. 4 W.	30.87582 - 88.4121	March 25, 2004	1410-1500	Electroboat
E-5	2980	Escatawpa River	sec. 20, T. 2 S., R. 4 W.	30.86583 - 88.4104	March 25, 2004	1500-1545	Electroboat
Mobile-Tensaw River Delta System							
MT-1	2814	Bay Minette Basin nr. Hammock Br.	sec. 40, T. 4 S., R. 1 E.	30.7130 - 87.9179	May 13, 2004	0815-0835	Electroboat
MT-2	2765	Boggy Branch (Bay Minette Cr.)	sec. 8, T. 4 S., R. 2 E.	30.7101 - 87.8879	April 27, 2005	0930-1000	Electroboat
MT-3	2764	Bay Minette Cr. nr. Wilkins Cr.	sec. 9, T. 4 S., R. 2 E.	30.7151 - 87.8814	April 27, 2005	0800-0840	Electroboat
MT-4a	2971	Bay Minette Cr. nr. power line	sec. 4, T. 4 S., R. 2 E.	30.7221 - 87.8733	March 26, 2004	0930-1130	Electroboat
MT-4b	2815				May 13, 2004	1000-1100	Electroboat
MT-4c	2763				April 26, 2005	1645-1730	Electroboat
MT-5	2817	Bay Minette Cr. tributary	sec. 4, T. 4 S., R. 2 E.	30.7253 - 87.8705	May 13, 2004	1110-1125	Electroboat
MT-6	2816	Bay Minette Cr.	sec. 4, T. 4 S., R. 2 E.	30.7300 - 87.8733	May 13, 2004	1140-1155	Electroboat
MT-7	2636	Lower Tensaw River and tributaries	sec. 42, T. 3 S., R. 1 E.	30.7648 - 87.9267	May 19, 2005	0830-1200	Gill net
MT-8	2645	McVays Lake mouth	sec. 42, T. 3 S., R. 2 E.	30.7623 - 87.9204	May 19, 2005	1015-1025	Electroboat
MT-9	2617	McVays Lake east fork	sec. 19, T. 3 S., R. 2 E.	30.7735 - 87.9129	May 19, 2005	0940-1005	Electroboat
MT-10	2614	McVays Lake west fork	sec. 19, T. 3 S., R. 2 E.	30.7768 - 87.9141	May 19, 2005	0855-0920	Electroboat

Table 1. Locations of fish sampling sites in the Escatawpa, Mobile-Tensaw, Fish, and Perdido River systems, 2004-05 – Continued.

Site no.	GSA no.	Site name	Location		Date	Sample time	Method
			Section, Township, Range	Latitude/Longitude (decimal degrees)			
MT-11	2769	Gravine Island channel @ power line	sec. ?, T. 3 S., R. 1 E.	30.7827 - 87.9376	April 26, 2005	1100-1200	Electroboat
MT-12	2770	Gravine Island slough @ mouth	sec. ?, T. 3 S., R. 1 E.	30.7932 - 87.9350	April 26, 2005	1015-1130	Electroboat
MT-13	2821	Tensaw River nr. Gravine Island	sec ?	30.8063 - 87.9283	May 13, 2004	1000-1230	Gill net
MT-14	2767	Byrnes Lake nr. mouth	sec. 40, T. 3 S., R. 2 E.	30.7965 - 87.9141	April 26, 2005	1245-1315	Electroboat
MT-15	2766	Byrnes Lake tributary	sec. 41, T. 3 S., R. 2 E.	30.7904 - 87.9010	April 26, 2005	1330-1415	Electroboat
MT-16	2768	Byrnes Lake upper branch	sec. 40, T. 3 S., R. 2 E.	30.7966 - 87.8968	April 26, 2005	0805-0915	Electroboat
MT-17	2618	Hurricane Bayou upper branch	sec. 8, T. 2 S., R. 2 E.	30.8535 - 87.8944	May 12, 2005	1120-1225	Electroboat
MT-18	2616	Smith Bayou (The Basin)	sec. 18, T. 2 S., R. 2 E.	30.8692 - 87.9052	May 11, 2005	1010-1110	Electroboat
MT-19	2619	Unnamed tributary to The Basin	sec. 12, T. 2 S., R. 1 E.	30.8897 - 87.9335	May 11, 2005	1305-1345	Electroboat
MT-20	2615	Bat Cr. tributary (The Basin)	sec. 40, T. 2 S., R. 1 E.	30.9094 - 87.9456	May 11, 2005	1150-1230	Electroboat
MT-21	2651	Dennis Lake	sec. 47, T. 2 S., R. 2 E.	30.9096 - 87.8955	May 12, 2005	0800-0830	Gill net
MT-22	2647	Tensaw River nr. Dennis Lake	sec. 47, T. 2 S., R. 2 E.	30.9070 - 87.9025	May 10, 2005	0930-1400	Gill net
MT-23	2646	Tensaw River nr. Middle River	sec. 53, T. 1 S., R. 2 E.	30.9179 - 87.9112	May 8-9, 2005	1600-0800	Gill net
MT-24	2650	Middle River mouth @ Tensaw River	sec. 30, T. 1 S., R. 2 E.	30.9231 - 87.9123	May 12, 2005	0900-1000	Gill net
MT-25	2648	Tensaw River upstream Middle River	sec. 30, T. 1 S., R. 2 E.	30.9248 - 87.9128	May 10, 2005	0900-1200	Gill net
MT-26a	2635	Tensaw River @ Mifflin Lake mouth	sec. 30, T. 1 S., R. 2 E.	30.9311 - 87.9025	May 11, 2005	0930-1200	Gill net
MT-26b	2637				May 9, 2005	1500-1600	Gill net
MT-27	2638	Tensaw River nr. Live Oak landing	sec. 48, T. 1 S., R. 2 E.	30.9450 - 87.8821	May 9, 2005	1045-1645	Gill net
MT-28	2649	Tensaw Lake nr. Lary Island	sec. 29, T. 1 N., R. 2 E.	31.0261 - 87.8963	May 10, 2005	1415-1500	Gill net

Table 1. Locations of fish sampling sites in the Escatawpa, Mobile-Tensaw, Fish, and Perdido River systems, 2004-05 – Continued.

Site no.	GSA no.	Site name	Location		Date	Sample time	Method
			Section, Township, Range	Latitude/Longitude (decimal degrees)			
MT-29	2620	Tensaw Lake @ Watson Creek	sec. 45, T. 1 N., R. 2 E.	31.0459 - 87.8664	April 26, 2005	1000-1100	Electroboat
MT-30	2973	Chickasaw Creek upstream of park	sec. 17, T. 3 S., R. 1 W.	30.7819 - 88.1095	April 9, 2004	0930-1110	Electroboat
MT-31	2972	Chickasaw Creek slough near park	sec. 17, T. 3 S., R. 1 W.	30.7862 - 88.1057	April 9, 2004	1110-1140	Electroboat
MT-32	2974	Chickasaw Creek tributary	sec. 9, T. 3 S., R. 1 W.	30.7932 - 88.0890	April 9, 2004	0830-0900	Electroboat
MT-33	2800	Bayou Sara	sec. 25, T. 2 S., R. 1 W.	30.8405 - 88.0297	April 23, 2004	0930-1200	Gill net
MT-34	2984	Gunnison Creek @ Steel Creek	sec. 24, T. 2 S., R. 1 W.	30.8548 - 88.0369	April 23, 2004	1045-1100	Electroboat
MT-35	2985	Gunnison Creek @ paddlewheel boat	sec. 24, T. 2 S., R. 1 W.	30.8625 - 88.0308	April 23, 2004	1015-1045	Electroboat
MT-36	2986	Gunnison Creek @ power line	sec. 13, T. 2 S., R. 1 W.	30.8760 - 88.0340	April 23, 2004	0930-1015	Electroboat
Fish River System							
WB-1	2978	Cowpen Creek @ mouth	sec. 31, T. 6 S., R. 3 E.	30.4781 - 87.8052	April 8, 2004	1345-1405	Electroboat
WB-2	2975	Green Branch tributary	sec. 12, T. 7 S., R. 2 E.	30.4374 - 87.8237	April 8, 2004	1610-1630	Electroboat
WB-3	2976	Fish River bayou	sec. 18, T. 7 S., R. 3 E.	30.4369 - 87.8145	April 8, 2004	1545-1605	Electroboat
WB-4	2977	Fish River nr. Clay City	sec. 30, T. 6 S., R. 3 E.	30.4913 - 87.8052	April 8, 2004	1430-1500	Electroboat
Perdido River System							
P-1	2641	Perdido Bay @ Grassy Point	sec. 20, T. 7 S., R. 7 E.	30.4282 - 87.3924	May 18, 2005	0900-1200	Gill net
P-2	2679	Perdido Bay	sec. 17, T. 7 S., R. 7 E.	30.4332 - 87.3917	April 5, 2005	0900-1125	Gill net
P-3	2676	Perdido Bay	sec. 17, T. 7 S., R. 7 E.	30.4361 - 87.3865	April 5, 2005	0900-1025	Gill net
P-4	2639	Perdido Bay @ Perdido River	sec. 8, T. 7 S., R. 7 E.	30.4497 - 87.3872	May 18, 2005	0915-1700	Gill net
P-5	2621	Perdido River mouth	sec. 8, T. 7 S., R. 7 E.	30.4484 - 87.3898	April 4, 2005	1400-1700	Gill net

Table 1. Locations of fish sampling sites in the Escatawpa, Mobile-Tensaw, Fish, and Perdido River systems, 2004-05 – Continued.

Site no.	GSA no.	Site name	Location		Date	Sample time	Method
			Section, Township, Range	Latitude/Longitude (decimal degrees)			
P-6	2671	Perdido River nr. mouth	sec. 7, T. 7 S., R. 7 E.	30.4512 - 87.4027	April 4, 2005	1325-1530	Gill net
P-7	2678	Caney Bayou mouth	sec. 12, T. 7 S., R. 6 E.	30.4521 - 87.4149	April 5, 2005	1315-1400	Gill net
P-8	2677	Perdido River NW Caney Bayou	sec. 1, T. 7 S., R. 6 E.	30.4605 - 87.4181	April 5, 2005	1045-1230	Gill net
P-9a	2801	Perdido River SE of Alligator Bayou	sec. 1, T. 7 S., R. 6 E.	30.4683 - 87.4277	April 22, 2004	1300-1615	Gill net
P-9b	2675				April 5, 2005	1200-1430	Gill net
P-10	2640	Perdido River nr. Reeder Lake	sec. 35, T. 6 S., R. 6 E.	30.4798 - 87.4356	May 17, 2005	1300-1600	Gill net
P-11	2999	Reeder Lake upper end	sec. 35, T. 6 S., R. 6 E.	30.4854 - 87.4439	April 22, 2004	1000-1100	Gill net
P-12	2673	Perdido River @ Blackwater River	sec. 35, T. 6 S., R. 6 E.	30.4820 - 87.4357	April 6, 2005	0845-1120	Gill net
P-13	2644	Blackwater River nr. Indian mound	sec. 26, T. 6 S., R. 6 E.	30.4888 - 87.4395	May 18, 2005	1100-1135	Electroboat
P-14	2992	Blackwater River	sec. 34, T. 6 S., R. 6 E.	30.4843 - 87.4557	April 20, 2004	1530-1640	Electroboat
P-15	2643	Blackwater River pond	sec. 34, T. 6 S., R. 6 E.	30.4802 - 87.4594	May 18, 2005	1015-1040	Electroboat
P-16	2642	Narrow Gap Cr. nr. Mouth	sec. 33, T. 6 S., R. 6 E.	30.4791 - 87.4706	May 18, 2005	0930-0950	Electroboat
P-17	2612	Blackwater River nr. Narrow Gap Cr.	sec. 33, T. 6 S., R. 6 E.	30.4813 - 87.4705	May 18, 2005	0905-1000	Electroboat
P-18	2993	Perdido River bayou 0.5 mi upstream Blackwater River	sec. 26, T. 6 S., R. 6 E.	30.4903 - 87.4331	April 20, 2004	1430-1500	Electroboat
P-19a	2994	Perdido River between Blackwater River and Black Lake	sec. 26, T. 6 S., R. 6 E.	30.4886 - 87.4323	April 20, 2004	1430-1630	Gill net
P-19b	2802				April 22, 2004	0830-1030	Gill net
P-19c	2672				April 5, 2005	1450-1645	Gill net
P-20	2991	Perdido River slough W of Black Creek	sec. 26, T. 6 S., R. 6 E.	30.4888 - 87.4309	April 20, 2004	1700-1725	Electroboat

Table 1. Locations of fish sampling sites in the Escatawpa, Mobile-Tensaw, Fish, and Perdido River systems, 2004-05 – Continued.

Site no.	GSA no.	Site name	Location		Date	Sample time	Method
			Section, Township, Range	Latitude/Longitude (decimal degrees)			
P-21a	2995	Perdido River @ Black Creek	sec. 26, T. 6 S., R. 6 E.	30.4875 - 87.4292	April 21, 2004	1500-1600	Gill net
P-21b	2998				April 22, 2004	1230-1600	Gill net
P-21c	2820				May 11, 2004	1300-1630	Gill net
P-22	2818	Perdido River 0.25 mi. upstream Black Creek	sec. 26, T. 6 S., R. 6 E.	30.4910 - 87.4309	May 12, 2004	1445-1640	Gill net
P-23	2997	Perdido River nr. Browns Landing	sec. 26, T. 6 S., R. 6 E.	30.4965 - 87.4309	April 21, 2004	0900-1100	Gill net
P-24	2990	Perdido River slough nr. Browns Landing	sec. 26, T. 6 S., R. 6 E.	30.4979 - 87.4372	April 21, 2004	0830-0945	Electroboat
P-25	2996	Perdido River @ Styx River	sec. 22, T. 6 S., R. 6 E.	30.5141 - 87.4496	April 21, 2004	1440-1650	Gill net
P-26	2807	Styx River @ large slough	sec. 16, T. 6 S., R. 6 E.	30.5254 - 87.4747	May 11, 2004	1715-1735	Electroboat
P-27	2806	Styx River downstream of power line	sec. 16, T. 6 S., R. 6 E.	30.5259 - 87.4804	May 11, 2004	1640-1705	Electroboat
P-28	2805	Styx River @ backwater upstream of power line	sec. 17, T. 6 S., R. 6 E.	30.5290 - 87.4859	May 11, 2004	1550-1620	Electroboat
P-29	2804	Styx River @ dog leg upstream of Soper Branch	sec. 7, T. 6 S., R. 6 E.	30.5379 - 87.4961	May 11, 2004	1520-1535	Electroboat
P-30	2803	Styx River @ unnamed tributary	sec. 7, T. 6 S., R. 6 E.	30.5456 - 87.4998	May 11, 2004	1405-1515	Electroboat
P-31	2987	Perdido River @ old RR crossing	sec. 15, T. 6 S., R. 6 E.	30.5166 - 87.4459	April 21, 2004	1400-1450	Gill net
P-32	2813	Perdido River @ Hwy. 90	sec. 15, T. 6 S., R. 6 E.	30.5221 - 87.4472	May 12, 2004	1500-1515	Electroboat
P-33	2819	Perdido River slough	sec. 15, T. 6 S., R. 6 E.	30.5272 - 87.4473	May 12, 2004	0830-1100	Gill net
P-34	2988	Perdido River slough @ power line	sec. 11, T. 6 S., R. 6 E.	30.5322 - 87.4409	April 21, 2004	1300-1320	Electroboat

Table 1. Locations of fish sampling sites in the Escatawpa, Mobile-Tensaw, Fish, and Perdido River systems, 2004-05 – Continued.

Site no.	GSA no.	Site name	Location		Date	Sample time	Method
			Section, Township, Range	Latitude/Longitude (decimal degrees)			
P-35	2989	Perdido River slough 0.25 mi. N. of power line	sec. 11, T. 6 S., R. 6 E.	30.5370 - 87.4427	April 21, 2004	1130-1230	Electroboat
P-36	2812	Perdido River	sec. 11, T. 6 S., R. 6 E.	30.5402 - 87.4382	May 12, 2004	1345-1405	Electroboat
P-37	2811	Perdido River	sec. 11, T. 6 S., R. 6 E.	30.5427 - 87.4353	May 12, 2004	1230-1330	Electroboat
P-38	2810	Perdido River slough	sec. 11, T. 6 S., R. 6 E.	30.5437 - 87.4351	May 12, 2004	1130-1145	Electroboat
P-39	2809	Perdido River	sec. 2, T. 6 S., R. 6 E.	30.5472 - 87.4353	May 12, 2004	1025-1125	Electroboat
P-40	2808	Perdido River	sec. 1, T. 6 S., R. 6 E.	30.5549 - 87.4269	May 12, 2004	0910-1010	Electroboat

during 2005 in a more concerted effort to capture large riverine fishes. Five sites were sampled with a small stream electrofishing boat on March 25, 2004 in the Escatawpa River main channel (table 1) from the Alabama-Mississippi state line at U.S. Hwy. 98 upstream to approximately 0.5 mile upstream of Brushy Creek mouth. Thirty-six sites were sampled in the Mobile-Tensaw River system in 2004-05: seven sites in tributaries to the Mobile River (Chickasaw Creek, Bayou Sara, and Gunnison Creek), 14 sites in tributaries to the Tensaw River (Bay Minette Creek and Basin, McVays Lake, Byrnes Lake, and Hurricane Bayou), 12 sites in main river channels (around Graving Island, Middle and Tensaw Rivers, and three sites in tributaries to McReynolds Lake (The Basin). Twenty-five of the Mobile-Tensaw sites were sampled with an electrofishing boat, and 11 sites were sampled with monofilament gill nets.

Four sites were sampled with an electrofishing boat on April 8, 2004, in the Fish River system: one site in a small bayou off of Green Branch, one site in a small channel off Fish River proper, one site in the mouth of Cowpen Creek, and one site in Fish River northwest of Clay City. Significant sampling effort was expended in the Perdido River system, with 40 sites sampled. Four sites were in upper Perdido Bay near the mouth of Perdido River, 26 sites were in the main channel of Perdido River and connected backwaters, and five sites were sampled in both the Styx River and Blackwater River. Twenty-one of the sites in Perdido were sampled with an electrofishing boat and 19 were sampled with monofilament gill nets.

Two sampling techniques were used to collect fishes: electrofishing boats and monofilament gill nets. One electrofishing rig was a 14-foot aluminum boat equipped with a Smith-Root GPP 2.5 electrofishing unit and a 25-horsepower motor. This boat was excellent for sampling small, deep streams and bayous as well as larger waters. The other electrofishing rig was a 17-foot aluminum boat equipped with a Smith Root GPP 5.0 electrofishing unit and a 100-horsepower motor. This boat was used for sites where long travel distances were required.

Sites were sampled for one to four efforts with electrofishing rigs, where one effort was defined as 10 minutes of pedal-down time. In operation, the boat arrive at the site, the person netting fish on the bow would operate the foot pedal and dip net and place the captured individuals in a live well. The generator was stopped after approximately 10 minutes of pedal time and the catch identified, counted, and recorded. Some specimens were preserved in 10 to 20

percent formalin if identifications needed to be checked in the laboratory and when voucher specimens were needed if a new location was discovered for lesser known species. Most sites were sampled for at least 10 minutes pedal time, and some were sampled for 30 or more minutes of pedal time if sites were particularly diverse or yielded species for which we had little distributional information.

Monofilament gill nets were 200 feet long, 8 feet in depth tied down to 6 feet, and 2.5-inch bar with a 5.0-inch stretch. Gill nets were operated from deck boats. Four nets were generally fished at a site, but more were used in the open waters of Perdido Bay. Nets were generally fished for one to three hours before they were worked but some were fished overnight; in a few situations where time or habitat was limited only one or two nets were fished for short periods of time. All net sets were weighted to the bottom and the ends tagged with floating buoys. Floating gill nets were tried on occasion and generally yielded a low catch of mainly longnose gar. Captured individuals were maintained in live wells on board, identified, counted, and then returned to the water.

Field notes recorded habitat and water conditions, special sampling conditions, sampling times, and catch statistics for each collection. Sampling sites were located with a hand-held GPS unit and referenced to a township-range grid and local geographic features. Preserved specimens were stored in the GSA Fish Collection, and all sampling data were entered into a database for management and manipulation.

RESULTS AND DISCUSSION

Capture of the Gulf sturgeon in the Perdido River and the blackmouth shiner in Bay Minette Creek during 2004 influenced the choice of sampling technique and schedules in 2005. Gill netting in the Mobile-Tensaw system increased from 16 hours in 2004 to 145 hours in 2005, and in the Perdido system from 91 hours in 2004 to 166 hours in 2005 (table 2) in an attempt to find additional Gulf sturgeon in Alabama waters. Likewise, boat electrofishing increased in the Mobile-Tensaw system from 4.92 pedal hours in 2004 to 6.43 pedal hours in 2005 in search of additional blackmouth shiners.

Seventy nine species of fishes plus the hybrid striped bass (palmetto bass) were collected during 2004-05 (table 3) represented by 5,191 individuals in 29 families. Two families of fishes (Moronidae and Ophichthidae), nine species (*Myrophis punctatus* -speckled worm eel, *Alosa chrysochloris* -skipjack herring, *Dorosoma petenense* -threadfin shad, *Notropis candidus* -silverside shiner, *Ameiurus nebulosus* -brown bullhead, *Menidia beryllina* -inland silverside, *Fundulus notatus* -blackstripe topminnow, *Morone mississippiensis* -yellow bass, and *Pomoxis annularis* -white crappie), plus the hybrid striped bass (*Morone saxatilis* x *chrysops*) that were not found in 2004 were collected in 2005.

Catch varied considerably across the study area ranging from no catch in several gill net samples to 26 species at site MT-30 in Chickasaw Creek (appendix). Catch and species diversity were higher in samples collected with the electrofishing boat, with weighted averages of 195 individuals per hour of pedal sample time and 13.4 species per sample, compared to 1.5 individuals per gill net hour and 2.9 species per sample for gill net collections. Catch rates for the electrofishing gear varied across drainages (table 4). Samples from the Escatawpa River system averaged 16.0 species per sample and 143 individuals per hour, samples from the Mobile-Tensaw River Delta tributaries averaged 15.1 species per sample and 244 individuals per hour, while samples from the Perdido River system averaged 11.7 species per sample and 137 individuals per hour. Samples from Fish River averaged only 8.8 species per sample but had that highest average catch rate at 287 per hour. Electrofishing gear was more efficient at collecting a variety of species and sampling small, shallow habitats whereas gill nets were most effective for collecting large species like paddlefish, Gulf sturgeon, and flathead catfish that prefer larger river habitat.

Table 2. Summary of collecting effort in the Escatawpa, Mobile-Tensaw, Fish, and Perdido River systems, 2004-05.

	2004	2005	Total
Escatawpa River (5 electrofishing sites)			
Number of sites sampled	5	0	5
Number of collections	5	0	5
Electrofishing pedal hours	3.09	0	3.09
Gill net hours	0	0	0
Sampling dates	March 25	--	
Mobile-Tensaw River (25 electrofishing sites, 11 gill net sites)			
Number of sites sampled	12	25	36 ^a
Number of collections	13	26	39
Electrofishing pedal hours	4.92	6.43	11.35
Gill net hours	16	145	161
Sampling dates	March 26 April 9, 23 May 13	April 9, 23, 26-27 May 9-12, 19	
Fish River (4-electrofishing sites)			
Number of sites sampled	4	0	4
Number of collections	4	0	4
Electrofishing pedal hours	0.91	0	0.91
Gill net hours	0	0	0
Sampling dates	April 8	--	
Perdido Bay and River (21 electrofishing sites, 19 gill net sites)			
Number of sites sampled	26	16	40 ^a
Number of collections	29	16	45
Electrofishing pedal hours	7.07	1.07	8.14
Gill net hours	91	166	257
Sampling dates	April 20-22 May 11-12	April 4-6 May 17-18	

^a - some sites sampled multiple times

Table 3. List of fish species collected in the Escatawpa, Mobile-Tensaw, Fish, and Perdido rivers, 2004-05.

Scientific - common name	Escatawpa River	Mobile-Tensaw River	Fish River	Perdido River	Total
Petromyzontidae					
<i>Ichthyomyzon gagei</i> - southern brook lamprey	5	--	--	--	5
Dasyatidae					
<i>Dasyatis sabina</i> - Atlantic stingray	--	16	--	3	19
Acipenseridae					
<i>Acipenser oxyrinchus desotoi</i> - Gulf sturgeon	--	--	--	1	1
Polyodontidae					
<i>Polyodon spatula</i> - paddlefish	--	7	--	--	7
Lepisosteidae					
<i>Lepisosteus oculatus</i> - spotted gar	3	162	7	16	188
<i>Lepisosteus osseus</i> - longnose gar	1	8	--	176	185
Amiidae					
<i>Amia calva</i> - bowfin	--	35	1	3	39
Anguillidae					
<i>Anguilla rostrata</i> - American eel	--	2	1	5	8
Ophichthidae					
<i>Myrophis punctatus</i> - speckled worm eel	--	3	--	--	3
Engraulidae					
<i>Anchoa mitchilli</i> - bay anchovy	--	4	104	--	108
Clupeidae					
<i>Alosa chrysochloris</i> - skipjack herring	--	3	--	1	4
<i>Brevoortia patronus</i> - Gulf menhaden	--	18	--	8	26
<i>Dorosoma cepedianum</i> - gizzard shad	--	9	--	--	9
<i>Dorosoma petenense</i> - threadfin shad	--	1	--	--	1
Cyprinidae					
<i>Ctenopharyngodon idella</i> - grass carp	--	--	--	1	1
<i>Cyprinella venusta</i> - blacktail shiner	64	2	--	31	97
<i>Lythrurus roseipinnis</i> - cherryfin shiner	17	--	--	--	17
<i>Notemigonus crysoleucas</i> - golden shiner	--	20	--	3	23
<i>Notropis candidus</i> - silverside shiner	--	164	--	--	164
<i>Notropis longirostris</i> - longnose shiner	3	--	--	--	3
<i>Notropis maculatus</i> - taillight shiner	--	384	--	28	412
<i>Notropis melanostomus</i> - blackmouth shiner	--	39	--	--	39
<i>Notropis petersoni</i> - coastal shiner	--	16	--	8	24
<i>Notropis texanus</i> - weed shiner	5	54	80	68	207
<i>Opsopoeodus emiliae</i> - pugnose minnow	--	59	--	--	59
<i>Pteronotropsis hypselopterus</i> - sailfin shiner	--	--	--	9	9
Catostomidae					
<i>Carpionodes velifer</i> - highfin carpsucker	--	4	--	--	4
<i>Erimyzon sucetta</i> - lake chubsucker	--	25	--	14	39
<i>Erimyzon tenuis</i> - sharpfin chubsucker	--	176	1	56	233
<i>Ictiobus bubalus</i> - smallmouth buffalo	--	103	--	--	103
<i>Minytrema melanops</i> - spotted sucker	12	38	4	57	111
<i>Moxostoma poecilurum</i> - blacktail redhorse	21	6	--	83	110
Ictaluridae					
<i>Ameiurus natalis</i> - yellow bullhead	--	1	--	--	1
<i>Ameiurus nebulosus</i> - brown bullhead	--	4	--	1	5
<i>Ictalurus furcatus</i> - blue catfish	--	15	--	--	15
<i>Ictalurus punctatus</i> - channel catfish	83	10	--	4	97
<i>Noturus leptacanthus</i> - speckled madtom	7	--	--	1	8
<i>Noturus nocturnus</i> - freckled madtom	17	--	--	--	17
<i>Pylodictis olivaris</i> - flathead catfish	7	22	--	1	30

Table 3. List of fish species collected in the Escatawpa, Mobile-Tensaw, Fish, and Perdido rivers, 2004-05 -- Continued.

Scientific - common name	Escatawpa River	Mobile-Tensaw River	Fish River	Perdido River	Total
Ariidae					
<i>Ariopsis felis</i> - hardhead catfish	--	11	--	95	106
<i>Bagre marinus</i> - gaftopsail catfish	--	--	--	89	89
Esocidae					
<i>Esox americanus</i> - redfin pickerel	--	--	--	1	1
<i>Esox niger</i> - chain pickerel	--	50	1	10	61
Aphredoderidae					
<i>Aphredoderus sayanus</i> - pirate perch	--	1	--	7	8
Mugilidae					
<i>Mugil cephalus</i> - striped mullet	--	36	14	12	62
Atherinopsidae					
<i>Labidesthes sicculus</i> - brook silverside	14	216	4	72	306
<i>Menidia beryllina</i> - Inland silverside	--	5	--	--	5
Belonidae					
<i>Strongylura marina</i> - Atlantic needlefish	--	1	--	1	2
Fundulidae					
<i>Fundulus chrysotus</i> - golden topminnow	--	34	--	--	34
<i>Fundulus cingulatus</i> - banded topminnow	--	--	4	--	4
<i>Fundulus escambiae</i> - russetfin topminnow	--	--	--	9	9
<i>Fundulus notatus</i> - blackstripe topminnow	--	1	--	--	1
<i>Fundulus nottii</i> - bayou topminnow	--	139	--	1	140
<i>Fundulus olivaceus</i> - blackspotted topminnow	9	4	--	10	23
<i>Lucania parva</i> - rainwater killifish	--	7	4	--	11
Poeciliidae					
<i>Gambusia holbrooki</i> - eastern mosquitofish	--	23	9	20	52
<i>Heterandria formosa</i> - least killifish	--	14	--	--	14
Moronidae					
<i>Morone mississippiensis</i> - yellow bass	--	4	--	--	4
<i>Morone saxatilis x chrysops</i> - palmetto bass	--	--	--	1	1
Centrarchidae					
<i>Ambloplites ariommus</i> - shadow bass	18	--	--	3	21
<i>Enneacanthus gloriosus</i> - bluespotted sunfish	--	122	--	--	122
<i>Lepomis gulosus</i> - warmouth	--	114	2	59	175
<i>Lepomis macrochirus</i> - bluegill	12	383	12	163	570
<i>Lepomis marginatus</i> - dollar sunfish	--	--	2	28	30
<i>Lepomis megalotis</i> - longear sunfish	76	13	--	99	188
<i>Lepomis microlophus</i> - redear sunfish	1	104	3	32	140
<i>Lepomis miniatus</i> - redspotted sunfish	1	59	1	60	121
<i>Micropterus punctulatus</i> - spotted bass	35	--	--	4	39
<i>Micropterus salmoides</i> - largemouth bass	3	130	5	85	223
<i>Pomoxis annularis</i> - white crappie	--	27	--	--	27
<i>Pomoxis nigromaculatus</i> - black crappie	--	7	--	1	8
Percidae					
<i>Ammocrypta beanii</i> - naked sand darter	1	--	--	--	1
<i>Etheostoma lynceum</i> - brighteye darter	2	--	--	--	2
<i>Perca flavescens</i> - yellow perch	--	2	--	--	2
<i>Percina nigrofasciata</i> - blackbanded darter	26	--	2	10	38
Sparidae					
<i>Archosargus probatocephalus</i> - sheepshead	--	--	--	1	1
Sciaenidae					
<i>Aplodinotus grunniens</i> - freshwater drum	--	71	--	--	71

Table 3. List of fish species collected in the Escatawpa, Mobile-Tensaw, Fish, and Perdido rivers, 2004-05 -- Continued.

<i>Scientific</i> - common name	Escatawpa River	Mobile-Tensaw River	Fish River	Perdido River	Total
Elassomatidae					
<i>Elassoma zonatum</i> - banded pygmy sunfish	--	16	--	4	20
Paralichthyidae					
<i>Paralichthys lethostigma</i> - southern flounder	--	27	--	--	27
Achiridae					
<i>Trinectes maculatus</i> - hogchoker	--	1	--	--	1
Total species	25	60	20	49	80
Total individuals	443	3,032	261	1,455	5,191

Table 4. Comparison of catch statistics for different collecting gear.

	Escatawpa River	Mobile- Tensaw River	Fish River	Perdido River
Electrofishing				
Average species	16.0	15.1	8.8	11.7
Average catch	88.6	106.4	65.2	50.6
Total catch	443	2,766	261	1,113
Catch per hour	143	244	287	137
Total time (pedal down hours)	3.09	11.35	0.91	8.14
Gill netting				
Average species	0	4.8	0	1.8
Average catch	0	21.9	0	14.9
Total catch	0	263	0	342
Catch per hour	0	1.6	0	1.3
Total time (gill net hours)	0	160	0	257

Mirarchi and others (2004) listed two species that occur in the coastal area as highest conservation concern (P1): the ironcolor shiner (*Notropis chalybaeus*) and the brighteye darter (*Etheostoma lynceum*). The ironcolor shiner (*Notropis chalybaeus*) was not targeted for collection in either 2004 or 2005. It is typically found in small, blackwater coastal streams draining swamps and vegetated wetlands. Two other species were listed as high conservation concern (P2): the Gulf sturgeon (*Acipenser oxyrinchus desotoi*) and the Alabama shad (*Alosa alabamae*).

The blackmouth shiner (*Notropis melanostomus*), unknown in Alabama prior to preparation of the state imperiled fauna list, was discovered recently in Bay Minette Creek. Although not officially listed for conservation concern as of this date, the blackmouth shiner should be added as a species of highest conservation concern (P1) in Alabama because of its rarity and apparently restricted distribution based on the results of this investigation to date.

SPECIES OF CRITICAL CONSERVATION CONCERN

BRIGHTEYE DARTER (P1)

The brighteye darter occurs in streams of the upper Coastal Plain generally east of the Mississippi River from the Obion River system in Kentucky and Tennessee, south to the Pascagoula River system in Mississippi and Alabama, and west to the Lake Pontchartrain system in Louisiana. In Alabama, the brighteye darter reaches its southeast range limit in the Escatawpa River system in west Mobile County and southwest Washington County. Populations of the brighteye darter are known from just a few stream systems in these counties with most individuals taken in Puppy Creek and Big Creek, both in Mobile County. Its perceived rarity in Alabama may be related to insufficient sampling throughout its range in the state.

Brighteye darters were found at only one site in the main channel of Escatawpa River (E-2) during this survey. The two individuals were taken in flow over a large submerged log embedded over 50 percent with sand and mud. Beckham (1973) reported only two individuals from Big Creek in Alabama in his study of the Escatawpa River. Studies of the aquatic fauna in two Escatawpa River tributaries draining the Citronelle Oil Field – Puppy Creek and Bennett Creek (Mettee and others, 1983; O’Neil and others, 1984) – revealed that a sustainable population of brighteye darters occurred over 20 years ago in Puppy Creek based on the

collection of 148 individuals in 16 samples out of 24 total samples taken. No brighteye darters were taken in nine samples collected from Bennett Creek, a tributary just north of Puppy Creek, during the same survey (O'Neil and others, 1984). One collection made in Puppy Creek by GSA in August 1992 (GSA 4301) had eight individuals that were found in the same preferred habitat sampled in 1980-82. Individuals collected in samples taken in the early 1980s ranged from 15 to 43 mm SL, while the number collected per sample ranged from 1 to 39 individuals (average 9.3). Brighteye darters were restricted to a clay bedrock shoal area where Puppy Creek had carved 1.0 to 3.25 feet (0.3 to 1.0 m) deep channels. Darters were consistently found in or near aquatic vegetation clumps in areas of moderate to swift flow. Collection data suggest that, where found, brighteye darters are likely sustaining their population numbers, but that they are restricted to structure, either aquatic vegetation or snags, in flowing reaches of streams.

Puppy Creek from Ala. Hwy. 217 to its source has been listed on the Alabama Department of Environmental Management section 303(d) list of impaired waters for pathogens due to urban runoff and storm sewer runoff. As such, the Puppy Creek population appears vulnerable over time to the cumulative effects of nonpoint-source pollution due to urban expansion of the Citronelle community and potential runoff and spills from the Citronelle Oil Field. The city of Mobile is already encroaching on brighteye darter habitat in the Big Creek system. Additional sampling in tributaries to the Escatawpa River as well as the main channel should reveal new locations where the brighteye darter occurs in the system.

BLACKMOUTH SHINER (P-1 PROPOSED)

Bortone (1989) described the blackmouth shiner (*Notropis melanostomus*) from specimens collected in Pond Creek and the Blackwater River in northwest Florida. He reported a habitat preference of quiet, backwater areas with shiners occurring most commonly in offshore pools 3 feet deep (Bortone, 1993). Suttkus and Bailey (1990) later reported additional blackmouth shiner populations in the Florida portion of the Yellow River system and in the Pascagoula River system in southeast Mississippi, indicating a preferred habitat of sluggish or stagnant waters usually well vegetated. Ross (2001) reported blackmouth shiners from lower Black Creek, Chickasawhay River, and Pascagoula River systems in southeast Mississippi, indicating that oxbow lakes were favored. While on a survey to collect specimens of the yellow

perch in Bay Minette Creek, Alabama James D. Williams of the U.S. Geological Survey, Florida Integrated Science Center, preserved several specimens of small shiners he collected while electrofishing on April 16, 2003. Williams later identified 14 specimens out of the lot as blackmouth shiners, and these are deposited in the University of Alabama Ichthyological Collection (UAIC 13866.01). This is the first reported record of the blackmouth shiner in Alabama, although a precise location was unknown at the time of preservation.

During sampling in Bay Minette Creek for this project, 27 individuals of the blackmouth shiner were discovered in Bay Minette Creek at site MT-4a (appendix) on March 26, 2004 (GSA 2971). The specimens were taken in a small backwater bayou off the main channel of Bay Minette Creek. The bayou was about 6.5 feet (2.0 m) deep in the center shallowing to 1.6 feet (0.5 m) or less near shore. The shoreline had a thick growth of emergent and submerged aquatic vascular plants, and golden club (*Orontium*) was the dominant species (fig. 2).

The entire shoreline and deeper open water areas were sampled with the small electrofishing boat, but blackmouth shiners were only found in one restricted area near the northeast shore over an area of new golden club growth. The shiners were schooling within a thick vegetation mat in open water, and when the electroboat was activated the shiners popped out of the vegetation mat. The shoreline and open water of the bayou and shoreline of main channel Bay Minette Creek were fished for 70 minutes of pedal time and no additional blackmouth shiners were found either in the bayou or in Bay Minette Creek proper. The bayou site was sampled a second time on May 13, 2004, (GSA 2815) and no shiners were taken after 48 minutes of pedal time.

This same location was visited April 26, 2005, and sampled for approximately 30 minutes of pedal time during which 11 blackmouth shiners were collected (GSA 2763) very near the same *Orontium* habitat sampled in 2004. One individual of the blackmouth shiner was found at a site MT-3 (GSA 2764) approximately one mile downstream of site MT-4. Both sites were off-channel sloughs with heavy submerged vegetation and shallow shoreline zones.

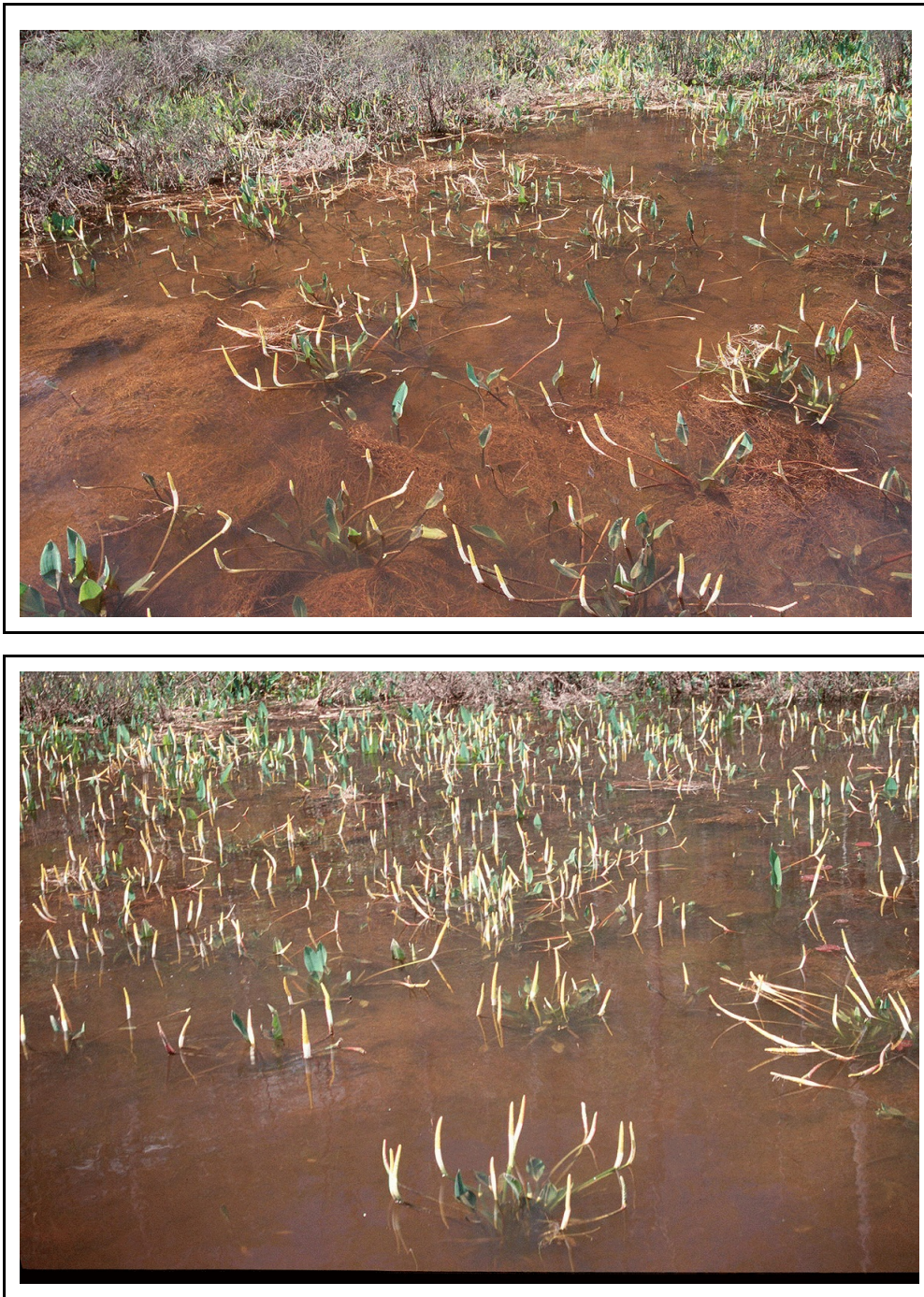


Figure 2. Photos of blackmouth shiner habitat in Bay Minette Creek, 2004.

Additional sites in Bay Minette Creek, both upstream and downstream of known locations were sampled for blackmouth shiners in both 2004 and 2005, but no individuals have been taken to date outside of Bay Minette Creek. Three sites in Chickasaw Creek and three sites in Gunnison Creek, tributaries to the Mobile River, were sampled in 2004 and no shiners were taken. Additional small stream systems tributary to the Tensaw River were sampled in 2005 including three sites in McVays Lake, three sites in Byrnes Lake, one site in Hurricane Bayou, two sites in channels around Gravine Island, and three sites in tributaries of McReynolds Lake (The Basin). Many of these sites were similar in morphology and aquatic vegetation cover to sites MT-3 and MT-4 with shallow shore areas and thick submerged vegetation. However, no shiners were taken.

GULF STURGEON (P2)

A recovery and management plan for the Gulf sturgeon was published in 1995 (U.S. Fish and Wildlife Service, 1995), and critical habitat was officially designated March 19, 2003 (68 FR 13369-13495). No waters within the Mobile and Perdido River systems were designated as critical habitat for the Gulf sturgeon because only limited information was available to document its presence in these rivers, and no information was available to substantiate the presence of a sustainable, reproducing population. Records reported in the recovery plan date from 1972, when several hundred individuals were sighted feeding at the mouth of the Blakeley River, to 1993, when a live sturgeon was captured in the Bayou LaBatre area and later tagged. Sightings over the intervening years were of lone individuals captured in Mobile Bay, Mobile River, Tensaw River, Blakeley River, Tombigbee River, and the Alabama River. The U.S. Fish and Wildlife Service recently reported that several Gulf sturgeon tagged in river systems to the east of Mobile Bay were found moving along the Alabama coastline in near shore marine environments. No individuals have been officially reported from the Perdido River system on the Alabama-Florida state line.

A single individual of the Gulf sturgeon was captured on April 20, 2004, during this study at station P-19 approximately 0.5 mile (0.8 km) upstream of the mouth of Blackwater River. It was captured at 1635 hours (h) in a gill net set on the bottom in 14 feet (4 m) of water, measured 765 mm total length, and weighed 2,050 grams. Water temperature at time of collection was

21°C. Interestingly, all five nets that were set at this site had extensive accumulations of jellyfish. High tide at Perdido Pass on April 20, 2004, occurred at 1153 h, while low tide occurred at 2151 h, indicating the sturgeon was captured on an outgoing tide.

Twelve additional gill net collections (166 gill net hours) at ten new sites were made in 2005 to find additional individuals of Gulf sturgeon in the Perdido system. Catch rate during these collections was extremely low, both in numbers and species, and no additional Gulf sturgeon were captured in 2005.

ALABAMA SHAD (P2)

The Alabama shad (*Alosa alabamae*) was not collected during either year of sampling effort during this study. It occurs from the Mississippi River, and several of its major river tributaries, eastward to the Suwannee River in northern Florida. Existing literature suggests spawning populations of Alabama shad in Gulf coast rivers may be relatively small. Laurence and Yerger (1967) collected 141 shad (70 males and 71 females) in the Apalachicola River in 1966 with gill nets and dip nets. Mills (1972) collected 351 shad (110 males and 70 females) in the same drainage in 1969-70 using hook and line, gill nets and dip nets. GSA biologists have recently collected a few specimens from the Conecuh River and 400 shad (225 males and 175 females) in the Choctawhatchee River, Alabama, with boat electrofishing gear and floating gill nets from 1994-2000. Swift and others (1977) collected a few juvenile Alabama shad in the Ochlockonee River in 1967 and an adult specimen in 1974. Ross (2001) reported recent collections from Pascagoula River tributaries in Mississippi.

DISTRIBUTION RECORDS OF OTHER SPECIES OF INTEREST

New distribution records for other species of conservation interest in the study area were documented in 2004 and 2005. Seven paddlefish (*Polyodon spathula*) were netted at four sites in the Tensaw River (MT-7, MT-13, MT26a, MT-26b). The coastal shiner (*Notropis petersoni*) was found at seven stations (24 individuals) in the study area (MT-1, MT-15, MT-16, P-17, P-18, P-24, and P-30). Most individuals of the coastal shiner (14) were taken at site MT-1 in Bay Minette Basin. The taillight shiner (*Notropis maculatus*) has been found commonly throughout the Mobile-Tensaw system, 15 sites and 412 individuals, frequently in high numbers over submerged

vegetation at the mouths of small off-stream bayous (66 individuals at site MT-4b, 130 individuals at site MT-15, and 81 individuals at site MT-16).

A single individual of the flathead catfish (*Pylodictis olivaris*) was taken in the Perdido River in 2004 at site P-33. According to local fishermen there appears to be a small flathead catfish population in the lower Perdido River over submerged vegetation at the mouths of small off-stream bayous. The freckled madtom (*Noturus nocturnus*) was found at all five stations in the Escatawpa River (17 individuals) in 2004. This species prefers a habitat of deep runs with moderate flow over log and debris snags which were easily sampled with the electrofishing boat. The golden topminnow (*Fundulus chrysotus*) was found at one station (MT-1) in Bay Minette Basin in 2004 and five additional sites in the Mobile-Tensaw system were added in 2005 (MT-4c, MT-10, MT-11, MT-18, MT-19). Nineteen individuals of the golden topminnow were collected at site MT-19, an unnamed tributary to McReynolds Lake. One individual of the blackstripe topminnow (*Fundulus notatus*) was collected near the mouth of Byrnes Lake, site MT-14.

The least killifish (*Heterandria formosa*) was found at three sites (MT-1, MT-18, MT-19) in the Mobile-Tensaw system. The inland silverside (*Menidia beryllina*) was found at two sites around Graving Island. Bluespotted sunfish (*Enneacanthus gloriosus*) were found exclusively in tributaries to the Mobile-Tensaw River with 122 individuals found at 14 stations in 2004-05. This species appears to be much more widespread than once thought and is somewhat abundant in places (13 individuals at site MT-3, 40 individuals at MT-4c, and 16 individuals at MT-36). Two individuals of the yellow perch (*Perca flavescens*) have been captured in the Bay Minette Creek system over the study period.

Streams in the study area were particularly rich in species and numbers of fishes in the family Centrarchidae. Twelve species were found and 32 percent of all fishes collected over 2004-05 were from the family Centrarchidae. Out of all centrarchids collected (1,664 individuals) the bluegill (*Lepomis macrochirus*) was the most abundant (34.3 percent) followed by largemouth bass (*Micropterus salmoides*) at 13.4 percent, longear sunfish (*Lepomis megalotis*) at 11.3 percent, warmouth (*Lepomis gulosus*) at 10.5 percent, redear sunfish at 8.4 percent, and redspotted sunfish (*Lepomis miniatus*) at 7.3 percent. Centrarchids were also frequently

encountered over the study area. Bluegill were found in 51 out of 93 samples, largemouth bass were found in 47 samples, warmouth in 39, longear sunfish in 23, redspotted sunfish in 29, and redear sunfish in 33 samples.

SUMMARY AND RECOMMENDATIONS

Seventy-nine species of fishes and the hybrid striped bass were collected during this investigation represented by 5,191 individuals in 29 families. Catch varied considerably across the study area ranging from no catch to 26 species. Catch and species diversity were higher in samples collected with the electrofishing boat but varied across drainages. Samples from the Escatawpa River system were lowest in catch, while samples from the Mobile-Tensaw River delta tributaries were highest. Electrofishing gear was more efficient at collecting a variety of species and sampling small, shallow habitats, whereas gill nets were most effective for collecting large species like paddlefish, gulf sturgeon, and flathead catfish that prefer large river habitat.

Collection of the Gulf sturgeon (*Acipenser oxyrinchus desotoi*) during 2004 in the Perdido River is significant because the Perdido River was not listed as critical habitat for this species. Additional sampling in 2005 failed to capture Gulf sturgeon in the Perdido system. It is recommended that additional gill net sampling be initiated in the future to document the presence and use of the Perdido River system by the Gulf sturgeon. This will be important for sturgeon recovery efforts, necessitating the need to reconsider the Perdido River as critical habitat for the Gulf sturgeon.

Discovery of additional locations and individuals of the blackmouth shiner (*Notropis melanostomus*) in Bay Minette Creek was significant and is beginning to help us better understand the distribution and biology of this species in the state. The blackmouth shiner was unknown in Alabama at the time the official state imperiled species list was compiled. However, since its discovery in 2003 and our work the last two years, we conclude that this species is not common in the state and it should be added as a species of highest conservation concern (or perhaps high concern until a more comprehensive status survey is completed for the species).

The additional paddlefish (*Polyodon spathula*) collections will help to refine our knowledge of the distribution and movement of this species in Alabama waters. New locations for several other poorly known species were documented, which helps refine our knowledge of

these species in Alabama's coastal waters, including the taillight shiner (*Notropis maculatus*), coastal shiner (*Notropis petersoni*), freckled madtom (*Noturus nocturnus*), least killifish (*Heterandria formosa*), golden topminnow (*Fundulus chrysotus*), inland silverside (*Menidia beryllina*), and the bluespotted sunfish (*Enneacanthus gloriosus*).

Work during the third year of study will include a review of historical collection locations for the ironcolor shiner in Alabama and a revisit to some of these sites to assess current status. New work is planned in the Escambia River system and will include main channel sampling in the Conecuh River and Big Escambia Creek. Bay Minette Creek will be revisited and selected sites sampled for blackmouth shiners. We would also like to sample in the main channel of the Perdido River upstream of our sampling efforts the last two years. Should time and funds permit, we also will revisit the Escatawpa system and search for brighteye darters in tributaries.

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APPENDIX

Collection data for samples in the Escatawpa, Mobile-Tensaw, Fish, and
Perdido River systems, 2004-05

Scientific name	Common name	Station					
		E-1	E-2	E-3	E-4	E-5	MT-1
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	2	3	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	--	1	--	1	1	5
<i>Lepisosteus osseus</i>	longnose gar	--	--	--	--	1	--
Amiidae <i>Amia calva</i>	bowfin	--	--	--	--	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	14	20	8	8	14	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	3	13	--	1	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	1	--	2	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	14
<i>Notropis texanus</i>	weed shiner	--	2	2	--	1	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotrops hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	1	4	5	1	1	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	2	4	9	2	4	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	5	12	57	5	4	--
<i>Noturus leptacanthus</i>	speckled madtom	2	--	4	1	--	--
<i>Noturus nocturnus</i>	freckled madtom	3	4	7	2	1	--
<i>Pylodictis olivaris</i>	flathead catfish	3	--	1	--	3	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gaftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		E-1	E-2	E-3	E-4	E-5	MT-1
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	4	3	6	--	1	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	3
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	2	--	7	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	7
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	--	--	4
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	3
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	6	1	7	1	3	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	3
<i>Lepomis gulosus</i>	warmouth	--	--	--	--	--	7
<i>Lepomis macrochirus</i>	bluegill	3	2	5	--	2	6
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	25	15	22	6	8	--
<i>Lepomis microlophus</i>	redeer sunfish	--	--	1	--	--	8
<i>Lepomis miniatus</i>	redspotted sunfish	--	1	--	--	--	13
<i>Micropterus punctulatus</i>	spotted bass	11	7	5	4	8	--
<i>Micropterus salmoides</i>	largemouth bass	--	--	2	1	--	3
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	1	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	2	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	4	10	9	3	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	1
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		15	18	20	12	15	13
Total individuals		86	94	175	35	53	77
Sample time (hours)		0.75	0.46	0.83	0.54	0.51	0.55
Sampling method, [(n) refers to number of gill nets]		electro	electro	electro	electro	electro	electro

Scientific name	Common name	Station					
		MT-2	MT-3	MT-4a	MT-4b	MT-4c	MT-5
Petromyzontidae							
<i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae							
<i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae							
<i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae							
<i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae							
<i>Lepisosteus oculatus</i>	spotted gar	6	9	2	6	4	2
<i>Lepisosteus osseus</i>	longnose gar	--	1	--	1	--	--
Amiidae							
<i>Amia calva</i>	bowfin	--	--	--	1	1	--
Anguillidae							
<i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae							
<i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae							
<i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae							
<i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	1	--	--	--	--
Cyprinidae							
<i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	3	--	1	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	9	66	14	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	1	27	--	11	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	1	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	1	3	8	--	6	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae							
<i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	1	--	1	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	2	24	6	30	24	3
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	1	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	--	--	--	--	1
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	1	--	--	--
Ictaluridae							
<i>Ameiurus natalis</i>	yellow bullhead	--	--	--	1	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	1	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae							
<i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		MT-2	MT-3	MT-4a	MT-4b	MT-4c	MT-5
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	1	6	4	6	3	1
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	1	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	9	47	18	25	21	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	5	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	13	12	11	31	10	6
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	1	--	2	1	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	4	13	8	12	40	--
<i>Lepomis gulosus</i>	warmouth	2	18	1	3	4	1
<i>Lepomis macrochirus</i>	bluegill	5	24	1	12	3	4
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	--	5	4	5	1	--
<i>Lepomis miniatus</i>	redspotted sunfish	2	4	1	--	--	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	3	1	5	--	2
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	1	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	1	--	1	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	1	1	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		12	20	18	18	16	8
Total individuals		47	178	105	209	149	20
Sample time (hours)		0.32	0.48	1.16	0.79	0.53	0.18
Sampling method, [(n) refers to number of gill nets]		electro	electro	electro	electro	electro	electro

Scientific name	Common name	Station					
		MT-6	MT-7	MT-8	MT-9	MT-10	MT-11
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	1	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	3	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	2	--	--	12	6	14
<i>Lepisosteus osseus</i>	longnose gar	--	1	--	--	--	--
Amiidae <i>Amia calva</i>	bowfin	--	--	--	5	5	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	1
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	10	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	1	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	2	--
<i>Notropis candidus</i>	silverside shiner	--	--	1	--	--	52
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	1	--	--	13	1	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	2	--	--	1	--	--
<i>Pteronotrops hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpodes velifer</i>	highfin carpsucker	--	1	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	9	--	--	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	23	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	1	--	--	1	2	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	--	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	1	--
<i>Ictalurus furcatus</i>	blue catfish	--	1	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		MT-6	MT-7	MT-8	MT-9	MT-10	MT-11
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	1
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	1	--	7
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	1	--	--	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	2
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	1	1
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	5	8	1
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	9	--	--	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	2
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	1
<i>Lepomis gulosus</i>	warmouth	--	--	--	--	--	5
<i>Lepomis macrochirus</i>	bluegill	4	--	2	10	10	9
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	--	--	2	2	5	18
<i>Lepomis miniatus</i>	redspotted sunfish	--	--	--	2	--	8
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	1	--	1	5	7	8
<i>Pomoxis annularis</i>	white crappie	--	--	1	4	1	7
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	1	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	1	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	1	6	--	--	2
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		9	8	7	13	13	17
Total individuals		30	32	23	62	50	139
Sample time (hours)		0.17	3.50	0.16	0.36	0.38	0.30
Sampling method, [(n) refers to number of gill nets]		electro	gill(5)	electro	electro	electro	electro

Scientific name	Common name	Station					
		MT-12	MT-13	MT-14	MT-15	MT-16	MT-17
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	14	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	2	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	3	--	8	9	3	7
<i>Lepisosteus osseus</i>	longnose gar	--	--	--	--	--	--
Amiidae <i>Amia calva</i>	bowfin	2	--	--	1	1	5
Anguillidae <i>Anguilla rostrata</i>	American eel	1	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	2	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	4	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	2	2	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	5	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	1	--	--
<i>Notropis candidus</i>	silverside shiner	109	--	2	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	130	81	27
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	1	1	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	1	10	8	--
<i>Pteronotrops hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpodes velifer</i>	highfin carpsucker	--	1	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	5	8	1
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	9	10	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	17	2	1	1	--
<i>Minytrema melanops</i>	spotted sucker	--	--	5	1	5	15
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	1	1	2
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	3	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	1	--	2	--	--	3
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	1	--	--	--	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	11	--	--	--	--
<i>Bagre marinus</i>	gaftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		MT-12	MT-13	MT-14	MT-15	MT-16	MT-17
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	1	3	3
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	8	--	2	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	--	1	34	12	21
<i>Menidia beryllina</i>	inland silverside	3	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	1	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	1	--	--	6	6	4
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	--	1	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	2	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	7	1
<i>Lepomis gulosus</i>	warmouth	--	--	--	2	7	4
<i>Lepomis macrochirus</i>	bluegill	17	--	29	--	19	36
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	3	--
<i>Lepomis microlophus</i>	redeer sunfish	7	--	2	--	4	--
<i>Lepomis miniatus</i>	redspotted sunfish	5	--	--	--	--	2
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	16	--	7	3	7	4
<i>Pomoxis annularis</i>	white crappie	8	--	1	2	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	1	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	1	1	1	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	1	1	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	5	1	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		17	11	17	18	21	15
Total individuals		193	58	69	218	189	135
Sample time (hours)		0.52	2.00	0.33	0.35	0.51	0.69
Sampling method, [(n) refers to number of gill nets]		electro	gill(5)	electro	electro	electro	electro

Scientific name	Common name	Station					
		MT-18	MT-19	MT-20	MT-21	MT-22	MT-23
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	8	10	9	--	--	--
<i>Lepisosteus osseus</i>	longnose gar	--	--	--	--	--	--
Amiidae <i>Amia calva</i>	bowfin	3	--	1	--	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	1	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	11	2	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	2	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotrops hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpoides velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	3	3	3	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	2	1	--	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	1	--	--	3	2	2
<i>Minytrema melanops</i>	spotted sucker	1	--	--	--	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	--	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	3	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	1	2
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		MT-18	MT-19	MT-20	MT-21	MT-22	MT-23
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	8	1	4	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	1	1	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	1	--	--	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	5	19	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	5	5	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	3	--	--	--	--
<i>Heterandria formosa</i>	least killifish	2	9	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	5	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	12	17	11	--	--	--
<i>Lepomis macrochirus</i>	bluegill	25	43	71	--	--	--
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	11	7	15	--	--	--
<i>Lepomis miniatus</i>	redspotted sunfish	11	--	6	--	--	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	12	6	3	--	--	--
<i>Pomoxis annularis</i>	white crappie	3	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	1	--	1	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	2	1	--	--	1	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	8	1	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	5
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		23	18	11	1	3	3
Total individuals		137	136	127	3	4	9
Sample time (hours)		0.60	0.48	0.42	15.50	4.50	16.00
Sampling method, [(n) refers to number of gill nets]		electro	electro	electro	gill(1)	gill(3)	gill(2)

Scientific name	Common name	Station					
		MT-24	MT-25	MT-26a	MT-26b	MT-27	MT-28
Petromyzontidae							
<i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae							
<i>Dasyatis sabina</i>	Atlantic stingray	--	1	--	--	--	--
Acipenseridae							
<i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae							
<i>Polyodon spatula</i>	paddlefish	--	--	1	1	--	--
Lepisosteidae							
<i>Lepisosteus oculatus</i>	spotted gar	--	--	--	--	--	--
<i>Lepisosteus osseus</i>	longnose gar	1	--	--	--	--	1
Amiidae							
<i>Amia calva</i>	bowfin	--	--	--	--	--	--
Anguillidae							
<i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae							
<i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae							
<i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae							
<i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	2	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae							
<i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotrops hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae							
<i>Carpionodes velifer</i>	highfin carpsucker	--	1	--	--	1	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	4	9	2	15	12
<i>Minytrema melanops</i>	spotted sucker	--	--	--	--	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	--	--
Ictaluridae							
<i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	3	4	--	3	1
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	1	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	1	9	--	8	--
Ariidae							
<i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gaftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		MT-24	MT-25	MT-26a	MT-26b	MT-27	MT-28
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	--	--	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	--	--	--	--	--	--
<i>Lepomis macrochirus</i>	bluegill	--	--	--	--	--	--
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	--	--	--	--	--	--
<i>Lepomis miniatus</i>	redspotted sunfish	--	--	--	--	--	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	--	--	--	--	--
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	2	22	1	28	6
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	1	5	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		1	7	7	3	6	4
Total individuals		1	13	52	4	56	20
Sample time (hours)		1.00	3.00	2.50	1.00	6.00	0.75
Sampling method, [(n) refers to number of gill nets]		gill(1)	gill(3)	gill(8)	gill(2)	gill(5)	gill(6)

Scientific name	Common name	Station					
		MT-29	MT-30	MT-31	MT-32	MT-33	MT-34
Petromyzontidae							
<i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae							
<i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae							
<i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae							
<i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae							
<i>Lepisosteus oculatus</i>	spotted gar	--	9	10	4	--	8
<i>Lepisosteus osseus</i>	longnose gar	--	1	--	--	--	2
Amiidae							
<i>Amia calva</i>	bowfin	--	2	2	--	--	3
Anguillidae							
<i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae							
<i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae							
<i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae							
<i>Alosa chrysochloris</i>	skipjack herring	3	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	4	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	1	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae							
<i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	2	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	7	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	35	18	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	16	2	--	--	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae							
<i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	11	--	--	--	7
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	5	2
<i>Minytrema melanops</i>	spotted sucker	--	1	--	5	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	1	--	--	--	--
Ictaluridae							
<i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	1	--	--	--	1
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae							
<i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		MT-29	MT-30	MT-31	MT-32	MT-33	MT-34
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	3	--	--	--	2
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	11	--	3
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	18	2	2	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	1	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	2	4	6	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	4	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	2	--	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	4	7	--	--	--
<i>Lepomis gulosus</i>	warmouth	--	3	--	6	--	2
<i>Lepomis macrochirus</i>	bluegill	--	5	6	22	--	6
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	7	1	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	--	3	--	3	--	--
<i>Lepomis miniatus</i>	redspotted sunfish	--	2	--	--	--	2
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	2	--	18	--	6
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	3	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	3	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	1	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	1	--	--	--	--
Total species		1	26	10	9	4	12
Total individuals		3	148	53	77	11	44
Sample time (hours)		--	0.83	0.27	0.36	2.00	0.20
Sampling method, [(n) refers to number of gill nets]		electro	electro	electro	electro	gill(3)	electro

Scientific name	Common name	Station					
		MT-35	MT-36	WB-1	WB-2	WB-3	WB-4
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	4	2	3	2	2	--
<i>Lepisosteus osseus</i>	longnose gar	--	--	--	--	--	--
Amiidae <i>Amia calva</i>	bowfin	1	2	--	1	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	--	--	1	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	104	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	18	15	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	70	--	--	10
<i>Opsopoeodus emiliae</i>	pugnose minnow	1	--	--	--	--	--
<i>Pteronotrops hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	10	28	1	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	1	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	--	3	--	--	1
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	--	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		MT-35	MT-36	WB-1	WB-2	WB-3	WB-4
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	2	1	--	--	--	1
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	2	--	1	11	2	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	3	1	1	--	--	3
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	2	2	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	2	1	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	4	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	9	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	1	16	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	4	5	1	--	1	--
<i>Lepomis macrochirus</i>	bluegill	6	8	3	3	--	6
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	2
<i>Lepomis megalotis</i>	longear sunfish	1	1	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	1	1	1	1	--	1
<i>Lepomis miniatus</i>	redspotted sunfish	--	1	--	--	1	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	5	5	2	1	--	2
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	2
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	1	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	1	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		17	15	10	9	7	9
Total individuals		63	88	86	34	113	28
Sample time (hours)		0.25	0.16	0.26	0.21	0.18	0.26
Sampling method, [(n) refers to number of gill nets]		electro	electro	electro	electro	electro	electro

Scientific name	Common name	Station					
		P-1	P-2	P-3	P-4	P-5	P-6
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	1	--	--	2	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	--	--	--	--	--	--
<i>Lepisosteus osseus</i>	longnose gar	1	3	5	17	25	10
Amiidae <i>Amia calva</i>	bowfin	--	--	--	--	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	1	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	6	--	--	2	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpoides velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	--	--	--	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	--	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	1	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	1	1
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	36	1	--	55	1	--
<i>Bagre marinus</i>	gafftopsail catfish	20	--	--	53	--	--

Scientific name	Common name	Station					
		P-1	P-2	P-3	P-4	P-5	P-6
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	--	--	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	--	--	--	--	--	--
<i>Lepomis macrochirus</i>	bluegill	--	--	--	--	--	--
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	--	--	--	--	--	--
<i>Lepomis miniatus</i>	redspotted sunfish	--	--	--	--	--	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	--	--	--	--	--
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		6	2	1	5	4	2
Total individuals		65	4	5	129	28	11
Sample time (hours)		3.00	2.50	1.50	7.50	3.00	3.75
Sampling method, [(n) refers to number of gill nets]		gill (13)	gill(4)	gill(4)	gill(5)	gill(4)	gill(2)

Scientific name	Common name	Station					
		P-7	P-8	P-9a	P-9b	P-10	P-11
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	--	--	--	2	--	--
<i>Lepisosteus osseus</i>	longnose gar	26	1	--	6	--	--
Amiidae <i>Amia calva</i>	bowfin	--	--	--	--	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	--	--	5	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	--	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	1	--	--	--

Scientific name	Common name	Station					
		P-7	P-8	P-9a	P-9b	P-10	P-11
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	--	--	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	1	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	--	--	--	--	--	--
<i>Lepomis macrochirus</i>	bluegill	--	--	--	--	--	--
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	--	--	--	--	--	--
<i>Lepomis miniatus</i>	redspotted sunfish	--	--	--	--	--	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	--	--	--	--	--
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		1	1	1	4	0	0
Total individuals		26	1	1	14	0	0
Sample time (hours)		0.75	1.75	2.00	2.50	3.00	1.00
Sampling method, [(n) refers to number of gill nets]		gill(1)	gill(4)	gill(4)	gill(4)	gill(6)	gill(1)

Scientific name	Common name	Station					
		P-12	P-13	P-14	P-15	P-16	P-17
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	--	3	--	--	1	--
<i>Lepisosteus osseus</i>	longnose gar	1	3	1	--	4	--
Amiidae <i>Amia calva</i>	bowfin	--	--	--	--	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	1
<i>Notropis texanus</i>	weed shiner	--	--	3	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotrops hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	--	--	5
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	2	--	--	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	1	6	--	--	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		P-12	P-13	P-14	P-15	P-16	P-17
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	1	--	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	2	2	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	1	1	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	1	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	--	1	4	4	2	1
<i>Lepomis macrochirus</i>	bluegill	--	10	17	17	6	17
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	1	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	1	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	--	1	--	6	--	3
<i>Lepomis miniatus</i>	redspotted sunfish	--	--	1	--	1	5
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	2	4	2	1	1
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	1	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		1	12	10	4	8	7
Total individuals		1	28	40	29	17	33
Sample time (hours)		2.50	0.34	0.54	0.27	0.27	0.19
Sampling method, [(n) refers to number of gill nets]		gill(4)	electro	electro	electro	electro	electro

Scientific name	Common name	Station					
		P-18	P-19a	P-19b	P-19c	P-20	P-21a
Petromyzontidae							
<i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae							
<i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae							
<i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	1	--	--	--	--
Polyodontidae							
<i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae							
<i>Lepisosteus oculatus</i>	spotted gar	1	--	--	--	--	--
<i>Lepisosteus osseus</i>	longnose gar	--	--	--	1	--	6
Amiidae							
<i>Amia calva</i>	bowfin	--	--	--	--	--	--
Anguillidae							
<i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae							
<i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae							
<i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae							
<i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae							
<i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	1	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	1	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae							
<i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	--	1	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	--	--	--	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	1	--
Ictaluridae							
<i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae							
<i>Ariopsis felis</i>	hardhead catfish	--	--	2	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	2	8	--	--	--

Scientific name	Common name	Station					
		P-18	P-19a	P-19b	P-19c	P-20	P-21a
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	4	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	--	--	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	1	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	1	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	1	--	--	--	1	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	4	--	--	--	1	--
<i>Lepomis macrochirus</i>	bluegill	5	--	--	--	--	--
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	--	--
<i>Lepomis microlophus</i>	redeer sunfish	1	--	--	--	--	--
<i>Lepomis miniatus</i>	redspotted sunfish	3	--	--	--	--	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	8	--	--	--	2	--
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		10	2	2	1	7	1
Total individuals		29	3	10	1	8	6
Sample time (hours)		0.41	2.00	2.00	2.00	0.30	1.00
Sampling method, [(n) refers to number of gill nets]		electro	gill(5)	gill(5)	gill(4)	electro	gill(5)

Scientific name	Common name	Station					
		P-21b	P-21c	P-22	P-23	P-24	P-25
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i>	spotted gar	--	--	--	--	2	--
<i>Lepisosteus osseus</i>	longnose gar	--	1	--	6	--	6
Amiidae <i>Amia calva</i>	bowfin	--	--	--	--	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae <i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae <i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	5	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	--	--
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae <i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	--	--	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	--	--	--	--
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	--	--	--	--	--
<i>Moxostoma poecilurum</i>	blacktail redhorse	--	--	--	--	2	--
Ictaluridae <i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae <i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	4	--	1	--	--

Scientific name	Common name	Station					
		P-21b	P-21c	P-22	P-23	P-24	P-25
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	--	--	--	--	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	--	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	--	--	--	--	2	--
<i>Lepomis macrochirus</i>	bluegill	--	--	--	--	1	--
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	--	5	--
<i>Lepomis megalotis</i>	longear sunfish	--	--	--	--	4	--
<i>Lepomis microlophus</i>	redeer sunfish	--	--	--	--	4	--
<i>Lepomis miniatus</i>	redspotted sunfish	--	--	--	--	--	--
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	--	--	--	7	--
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	1	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		0	2	0	3	9	1
Total individuals		0	5	0	8	32	6
Sample time (hours)		5.00	3.50	1.50	2.00	0.50	1.45
Sampling method, [(n) refers to number of gill nets]		gill(1)	gill(5)	gill(5)	gill(5)	electro	gill(5)

Scientific name	Common name	Station					
		P-26	P-27	P-28	P-29	P-30	P-31
Petromyzontidae							
<i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae							
<i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae							
<i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae							
<i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae							
<i>Lepisosteus oculatus</i>	spotted gar	2	1	1	--	--	1
<i>Lepisosteus osseus</i>	longnose gar	--	2	5	1	4	4
Amiidae							
<i>Amia calva</i>	bowfin	--	1	--	--	--	--
Anguillidae							
<i>Anguilla rostrata</i>	American eel	--	--	--	--	--	--
Ophichthidae							
<i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae							
<i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae							
<i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae							
<i>Ctenopharyngodon idella</i>	grass carp	--	--	--	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	2	3	--
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	3	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	26	--	--	--	--	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	1	--
<i>Notropis texanus</i>	weed shiner	--	2	--	--	20	4
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	--
Catostomidae							
<i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	3	1	4	--	--	1
<i>Erimyzon tenuis</i>	sharpfin chubsucker	6	4	8	--	--	7
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	2	1	--	--	1	23
<i>Moxostoma poecilurum</i>	blacktail redhorse	3	2	1	--	14	3
Ictaluridae							
<i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	1	--	--	1
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	--
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	--	--	--	--	--
Ariidae							
<i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gafftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		P-26	P-27	P-28	P-29	P-30	P-31
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	1	--	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--	--	--	1
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	--
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	3	--	--	1
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	--	6	2	--	2	14
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	1	4	--	--	--	1
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	--	--	--	--	--
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	1	--	--	--	--	1
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	--
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	5	5	1	--	--	1
<i>Lepomis macrochirus</i>	bluegill	--	6	8	--	7	9
<i>Lepomis marginatus</i>	dollar sunfish	3	10	2	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	--	3	--	--	8	6
<i>Lepomis microlophus</i>	redeer sunfish	5	7	--	--	--	2
<i>Lepomis miniatus</i>	redspotted sunfish	--	2	--	--	1	6
<i>Micropterus punctulatus</i>	spotted bass	--	--	1	--	3	--
<i>Micropterus salmoides</i>	largemouth bass	1	4	2	--	8	7
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	1
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	3	--
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	--	--
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		13	18	13	2	13	20
Total individuals		61	62	39	3	75	94
Sample time (hours)		0.17	0.37	0.33	0.18	0.68	0.53
Sampling method, [(n) refers to number of gill nets]		electro	electro	electro	electro	electro	electro

Scientific name	Common name	Station					
		P-32	P-33	P-34	P-35	P-36	P-37
Petromyzontidae							
<i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--	--	--	--
Dasyatidae							
<i>Dasyatis sabina</i>	Atlantic stingray	--	--	--	--	--	--
Acipenseridae							
<i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--	--	--	--
Polyodontidae							
<i>Polyodon spatula</i>	paddlefish	--	--	--	--	--	--
Lepisosteidae							
<i>Lepisosteus oculatus</i>	spotted gar	--	--	--	1	1	--
<i>Lepisosteus osseus</i>	longnose gar	--	17	--	--	1	3
Amiidae							
<i>Amia calva</i>	bowfin	--	--	1	--	--	--
Anguillidae							
<i>Anguilla rostrata</i>	American eel	--	--	--	--	2	1
Ophichthidae							
<i>Myrophis punctatus</i>	speckled worm eel	--	--	--	--	--	--
Engraulidae							
<i>Anchoa mitchilli</i>	bay anchovy	--	--	--	--	--	--
Clupeidae							
<i>Alosa chrysochloris</i>	skipjack herring	--	--	--	--	--	--
<i>Brevoortia patronus</i>	Gulf menhaden	--	--	--	--	--	--
<i>Dorosoma cepedianum</i>	gizzard shad	--	--	--	--	--	--
<i>Dorosoma petenense</i>	threadfin shad	--	--	--	--	--	--
Cyprinidae							
<i>Ctenopharyngodon idella</i>	grass carp	--	--	1	--	--	--
<i>Cyprinella venusta</i>	blacktail shiner	--	--	--	--	--	10
<i>Lythrurus roseipinnis</i>	cherryfin shiner	--	--	--	--	--	--
<i>Notemigonus crysoleucas</i>	golden shiner	--	--	--	--	--	--
<i>Notropis candidus</i>	silverside shiner	--	--	--	--	--	--
<i>Notropis longirostris</i>	longnose shiner	--	--	--	--	--	--
<i>Notropis maculatus</i>	taillight shiner	--	--	--	--	2	--
<i>Notropis melanostomus</i>	blackmouth shiner	--	--	--	--	--	--
<i>Notropis petersoni</i>	coastal shiner	--	--	--	--	--	--
<i>Notropis texanus</i>	weed shiner	--	--	--	--	4	10
<i>Opsopoeodus emiliae</i>	pugnose minnow	--	--	--	--	--	--
<i>Pteronotropsis hypselopterus</i>	sailfin shiner	--	--	--	--	--	7
Catostomidae							
<i>Carpionodes velifer</i>	highfin carpsucker	--	--	--	--	--	--
<i>Erimyzon sucetta</i>	lake chubsucker	--	--	--	2	3	--
<i>Erimyzon tenuis</i>	sharpfin chubsucker	--	--	1	10	13	1
<i>Ictiobus bubalus</i>	smallmouth buffalo	--	--	--	--	--	--
<i>Minytrema melanops</i>	spotted sucker	--	--	3	--	4	1
<i>Moxostoma poecilurum</i>	blacktail redhorse	1	--	10	2	--	6
Ictaluridae							
<i>Ameiurus natalis</i>	yellow bullhead	--	--	--	--	--	--
<i>Ameiurus nebulosus</i>	brown bullhead	--	--	--	--	--	--
<i>Ictalurus furcatus</i>	blue catfish	--	--	--	--	--	--
<i>Ictalurus punctatus</i>	channel catfish	--	--	--	--	--	--
<i>Noturus leptacanthus</i>	speckled madtom	--	--	--	--	--	1
<i>Noturus nocturnus</i>	freckled madtom	--	--	--	--	--	--
<i>Pylodictis olivaris</i>	flathead catfish	--	1	--	--	--	--
Ariidae							
<i>Ariopsis felis</i>	hardhead catfish	--	--	--	--	--	--
<i>Bagre marinus</i>	gaftopsail catfish	--	--	--	--	--	--

Scientific name	Common name	Station					
		P-32	P-33	P-34	P-35	P-36	P-37
Esocidae							
<i>Esox americanus</i>	redfin pickerel	--	--	--	--	--	--
<i>Esox niger</i>	chain pickerel	2	--	2	2	2	--
Aphredoderidae							
<i>Aphredoderus sayanus</i>	pirate perch	--	--	--	--	--	1
Mugilidae							
<i>Mugil cephalus</i>	striped mullet	--	--	--	--	--	--
Atherinopsidae							
<i>Labidesthes sicculus</i>	brook silverside	1	--	1	31	3	--
<i>Menidia beryllina</i>	inland silverside	--	--	--	--	--	--
Belonidae							
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--	--	--	--
Fundulidae							
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	--	1	--	--
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	2	--	--	--	--	2
<i>Lucania parva</i>	rainwater killifish	--	--	--	--	--	--
Poeciliidae							
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--	9	--	7
<i>Heterandria formosa</i>	least killifish	--	--	--	--	--	--
Moronidae							
<i>Morone mississippiensis</i>	yellow bass	--	--	--	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--	--	--	--
Centrarchidae							
<i>Ambloplites ariommus</i>	shadow bass	--	--	--	--	--	2
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--	--	--	--
<i>Lepomis gulosus</i>	warmouth	--	--	1	9	5	2
<i>Lepomis macrochirus</i>	bluegill	2	--	8	10	3	6
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--	4	3	--
<i>Lepomis megalotis</i>	longear sunfish	4	--	5	16	2	12
<i>Lepomis microlophus</i>	redeer sunfish	--	--	1	--	--	--
<i>Lepomis miniatus</i>	redspotted sunfish	2	--	--	3	2	10
<i>Micropterus punctulatus</i>	spotted bass	--	--	--	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	--	--	3	5	--	6
<i>Pomoxis annularis</i>	white crappie	--	--	--	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--	--	--	--
Percidae							
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	--	--	--	--	2
Sparidae							
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--	--	--	--
Sciaenidae							
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--	--	--	--
Elassomatidae							
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	--	--	1	1
Paralichthyidae							
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--	--	--	--
Achiridae							
<i>Trinectes maculatus</i>	hogchoker	--	--	--	--	--	--
Total species		7	2	12	14	16	20
Total individuals		14	18	37	105	51	91
Sample time (hours)		0.19	2.00	0.23	0.50	0.22	0.52
Sampling method, [(n) refers to number of gill nets]		electro	gill(5)	electro	electro	electro	electro

Scientific name	Common name	Station		
		P-38	P-39	P-40
Petromyzontidae <i>Ichthyomyzon gagei</i>	southern brook lamprey	--	--	--
Dasyatidae <i>Dasyatis sabina</i>	Atlantic stingray	--	--	--
Acipenseridae <i>Acipenser oxyrinchus desotoi</i>	Gulf sturgeon	--	--	--
Polyodontidae <i>Polyodon spatula</i>	paddlefish	--	--	--
Lepisosteidae <i>Lepisosteus oculatus</i> <i>Lepisosteus osseus</i>	spotted gar longnose gar	-- 2	-- 10	-- 4
Amiidae <i>Amia calva</i>	bowfin	1	--	--
Anguillidae <i>Anguilla rostrata</i>	American eel	--	--	2
Ophichthidae <i>Myrophis punctatus</i>	speckled worm eel	--	--	--
Engraulidae <i>Anchoa mitchilli</i>	bay anchovy	--	--	--
Clupeidae <i>Alosa chrysochloris</i> <i>Brevoortia patronus</i> <i>Dorosoma cepedianum</i> <i>Dorosoma petenense</i>	skipjack herring Gulf menhaden gizzard shad threadfin shad	-- -- -- --	-- -- -- --	-- -- -- --
Cyprinidae <i>Ctenopharyngodon idella</i> <i>Cyprinella venusta</i> <i>Lythrurus roseipinnis</i> <i>Notemigonus crysoleucas</i> <i>Notropis candidus</i> <i>Notropis longirostris</i> <i>Notropis maculatus</i> <i>Notropis melanostomus</i> <i>Notropis petersoni</i> <i>Notropis texanus</i> <i>Opsopoeodus emiliae</i> <i>Pteronotropis hypselopterus</i>	grass carp blacktail shiner cherryfin shiner golden shiner silverside shiner longnose shiner taillight shiner blackmouth shiner coastal shiner weed shiner pugnose minnow sailfin shiner	-- -- -- -- -- -- -- -- -- 4 -- --	-- 15 -- -- -- -- -- -- -- 5 -- --	-- 1 -- -- -- -- -- -- -- 15 -- 2
Catostomidae <i>Carpodes velifer</i> <i>Erimyzon sucetta</i> <i>Erimyzon tenuis</i> <i>Ictiobus bubalus</i> <i>Minytrema melanops</i> <i>Moxostoma poecilurum</i>	highfin carpsucker lake chubsucker sharpfin chubsucker smallmouth buffalo spotted sucker blacktail redhorse	-- -- -- -- 7 9	-- -- -- -- -- 11	-- -- -- -- 8 11
Ictaluridae <i>Ameiurus natalis</i> <i>Ameiurus nebulosus</i> <i>Ictalurus furcatus</i> <i>Ictalurus punctatus</i> <i>Noturus leptacanthus</i> <i>Noturus nocturnus</i> <i>Pylodictis olivaris</i>	yellow bullhead brown bullhead blue catfish channel catfish speckled madtom freckled madtom flathead catfish	-- -- -- -- -- -- --	-- -- -- -- -- -- --	-- -- -- -- -- -- --
Ariidae <i>Ariopsis felis</i> <i>Bagre marinus</i>	hardhead catfish gafftopsail catfish	-- --	-- --	-- --

Scientific name	Common name	Station		
		P-38	P-39	P-40
Esocidae				
<i>Esox americanus</i>	redfin pickerel	--	--	--
<i>Esox niger</i>	chain pickerel	--	--	--
Aphredoderidae				
<i>Aphredoderus sayanus</i>	pirate perch	1	--	5
Mugilidae				
<i>Mugil cephalus</i>	striped mullet	--	--	--
Atherinopsidae				
<i>Labidesthes sicculus</i>	brook silverside	2	5	3
<i>Menidia beryllina</i>	inland silverside	--	--	--
Belonidae				
<i>Strongylura marina</i>	Atlantic needlefish	--	--	--
Fundulidae				
<i>Fundulus chrysotus</i>	golden topminnow	--	--	--
<i>Fundulus cingulatus</i>	banded topminnow	--	--	--
<i>Fundulus escambiae</i>	russetfin topminnow	--	--	1
<i>Fundulus notatus</i>	blackstripe topminnow	--	--	--
<i>Fundulus nottii</i>	bayou topminnow	--	--	--
<i>Fundulus olivaceus</i>	blackspotted topminnow	--	3	3
<i>Lucania parva</i>	rainwater killifish	--	--	--
Poeciliidae				
<i>Gambusia holbrooki</i>	eastern mosquitofish	--	--	--
<i>Heterandria formosa</i>	least killifish	--	--	--
Moronidae				
<i>Morone mississippiensis</i>	yellow bass	--	--	--
<i>Morone saxatilis x chrysops</i>	palmetto bass	--	--	--
Centrarchidae				
<i>Ambloplites ariommus</i>	shadow bass	--	--	1
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	--	--	--
<i>Lepomis gulosus</i>	warmouth	1	--	10
<i>Lepomis macrochirus</i>	bluegill	4	15	12
<i>Lepomis marginatus</i>	dollar sunfish	--	--	--
<i>Lepomis megalotis</i>	longear sunfish	10	6	22
<i>Lepomis microlophus</i>	redeer sunfish	--	--	2
<i>Lepomis miniatus</i>	redspotted sunfish	4	2	18
<i>Micropterus punctulatus</i>	spotted bass	--	--	--
<i>Micropterus salmoides</i>	largemouth bass	1	3	18
<i>Pomoxis annularis</i>	white crappie	--	--	--
<i>Pomoxis nigromaculatus</i>	black crappie	--	--	--
Percidae				
<i>Ammocrypta beanii</i>	naked sand darter	--	--	--
<i>Etheostoma lynceum</i>	brighteye darter	--	--	--
<i>Perca flavescens</i>	yellow perch	--	--	--
<i>Percina nigrofasciata</i>	blackbanded darter	--	3	2
Sparidae				
<i>Archosargus probatocephalus</i>	sheepshead	--	--	--
Sciaenidae				
<i>Aplodinotus grunniens</i>	freshwater drum	--	--	--
Elassomatidae				
<i>Elassoma zonatum</i>	banded pygmy sunfish	--	--	1
Paralichthyidae				
<i>Paralichthys lethostigma</i>	southern flounder	--	--	--
Achiridae				
<i>Trinectes maculatus</i>	hogchoker	--	--	--
Total species		12	11	20
Total individuals		46	78	141
Sample time (hours)		0.17	0.68	0.55
Sampling method, [(n) refers to number of gill nets]		electro	electro	electro

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