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Mississippi



Southeastern Fishes Council
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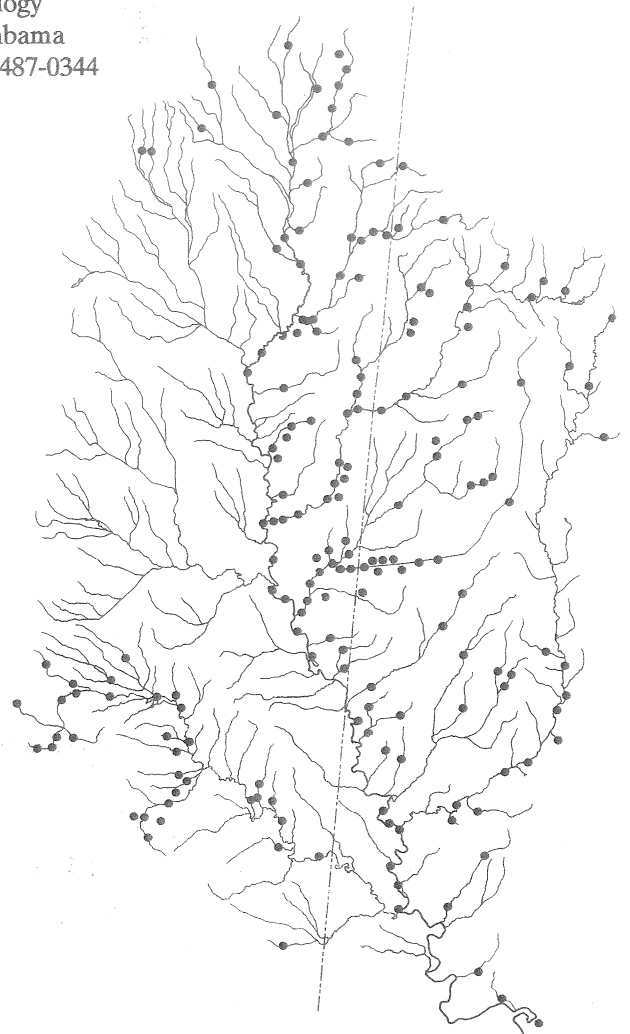
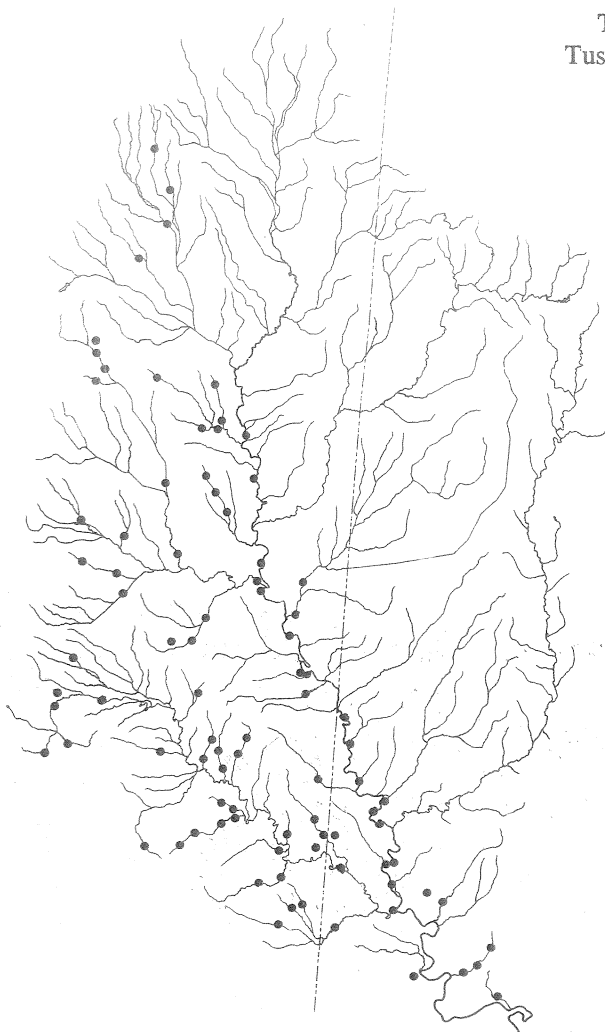
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**ATLAS OF FISHES OF THE UPPER TOMBIGBEE
RIVER DRAINAGE, ALABAMA-MISSISSIPPI**

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ABSTRACT: The original upper Tombigbee River proper was destroyed to accommodate the Tennessee-Tombigbee Waterway (TTW). What was once a relatively shallow, meandering, gravel-bottomed river is now a series of pools connected by canals and channels. Presently, 116 species of fishes are definitely known to occur in the upper Tombigbee drainage and 13 others are of unusual or questionable occurrence. Lists of fishes from 352 described sites are included. Species accounts contain comments on habitats and the author's opinions of the impact of the TTW on most species. Those species most adversely affected by the TTW depend on large, free-flowing rivers. A dot distribution map is provided for each of the 116 species. A brief section on stream capture lists the species captured by the Tennessee River drainage immediately following completion of the TTW and the potential immigrants from Tennessee.

INTRODUCTION

Acknowledgments

The upper Tombigbee River was the last of the major river systems of the Mobile basin to lose its integrity of wildness and free flow. From Demopolis, Alabama, to its headwaters, the main channel of the Tombigbee River has been severely altered by a series of dams, channelization, and canalization. What was once a free flowing, meandering stream is now a series of pools, severed bendways, channels, and canals. The river was, for the most part, broad and shallow. During low water, numerous gravel bars and islands were exposed. The main channel supported a large assortment of fishes, many of them now rare, such as the shovelnose sturgeon, the Alabama shad, the speckled chub, the frecklebelly madtom, and the crystal darter. Upper Tombigbee fishes that depend on large, free-flowing streams with substrates of clean sand and gravel are destined for extirpation. Their only hope for survival is to find refuge in the main channels of large tributaries. Squeezed into less than ideal habitat, or denied of habitat, the fishes must remain offended by our transgressions.

The foremost purpose of this Atlas is to document the distribution of the 116 species of fishes known to occur in tributaries of the upper Tombigbee River system and the river proper when it flowed freely. The Atlas also includes post-impoundment records in the Tennessee-Tombigbee Waterway (TTW), as well as speculation on the effects of the waterway on the fishes. This documentation will serve as baseline data for a meaningful comparison of the upper Tombigbee fish fauna of the future.

Dale Caldwell (1969), University of Alabama, made the first comprehensive survey of the fishes of the entire upper Tombigbee drainage system in anticipation of the Tennessee-Tombigbee Waterway. Dale's unpublished records are included herein. Free use was made of the unpublished dissertation of James Padgett Kelley, Jr. (1975), Mississippi State University, who made numerous collections in lower Luxapallila River in Mississippi and Alabama. The Noxubee River system was thoroughly surveyed by Walter Hubbard (1987), Mississippi Game and Fish Commission. Walter's records are exceptionally valuable for the Noxubee system was heretofore a little-known area. C. A. Schultz's (1969) study added many additional records of the walleye, as well as other species, especially those from the large streams. Glenn Clemmer, during his tenure at MSU, made invaluable contributions to our knowledge of upper Tombigbee fishes. Malcolm Pierson and C. A. Schultz made numerous collections, especially in Buttahatchee River and Bull Mountain Creek (Pierson and Schultz, 1984; Pierson et al., 1986). Tom Timmons (1982) surveyed Gainesville and Aliceville pools and confirmed the presence of three species in the upper Tombigbee that I had some doubts about occurring there. A paper by Mettee et al. (1986) provided information regarding the fishes of Yellow Creek, a tributary of the Luxapallila. Glendon Coffee provided information regarding the chronology of the TTW construction. Data

relative to the introductions of hybrid bass (*Morone*) and exotic species were furnished by Jerry Moss and James McHuge. The U.S. Fish and Wildlife Service, by way of Tom Thornhill and Celeste South, shared data on the study of cutoff bendways on the TTW.

My graduate students aided sponsored surveys in 1972-73, and 1983, and randomly collected for "the love of it": Eugene Beckham, Dale Caldwell, Hector Harima, Mike Howell, Thomas Jandebour, Rick Kasprzak, Maurice Mettee, Phillip Mundy, David Nieland, Benjamin Wall, and James Williams. Further field assistance was provided by Paul and Ralph Boschung, Robert Hanley, David Mills, Larry Overstreet, Jim Parrish, Roy Lee Smith, Harvey Stackman, and Don Woods.

Stephen Ross shared his records of Mississippi fishes obtained from INHS, MMNS, NLU, UMMZ, UNO, USM, UMS, USNM, and UT, many of which I otherwise probably would not have obtained. Henry Bart (AUM), Neil Douglas and Rob Wood (NLU), William Fink (UMMZ), Carter Gilbert and George Burgess (UF), and Frank Pezold (MSU) provided data from their respective institutions (abbreviations identified below). Discussions with David Etnier, Carter Gilbert, Rick Mayden, Stephen Ross, and Jim Williams led to a better understanding on my part of the undescribed species in the upper Tombigbee. Benjamin Wall confirmed the identifications of the

Erimyzon.

Jack Mallory (U.S. Corps of Engineers, Mobile) had the foresight to sponsor a pre-disturbance survey of the entire drainage system and post-impoundment surveys in the drainage area associated with the Demopolis, Gainesville, and Aliceville pools.

In addition to their helpful suggestions during the construction of the Atlas, Rick Mayden and Bernard Kuhajda critiqued the manuscript and provided valuable commentary. The critiques of the Editorial Committee were especially valuable. Craig Remington and Marita Schumacher did the cartography. Tom Kallsen provided maps. Michael Macrander and Larry Bowen guided me over hurdles going from my old computer system to a more modern one. Robert Haynes performed yeoman's service in converting the manuscript to camera-ready printout. Michael Stevenson, editor of the Proceedings SFC, graciously accepted the idea of a large paper; Robert Jenkins, former Chairman of SFC, approved the idea; and Werner Weiland, Treasurer, found the funds to publish the Atlas. My wife, Elaine, served as proof reader and companion, and provided nourishment and encouragement throughout the process of compiling this Atlas.

To each of you I give heartfelt thanks. None of you deserves credit for any shortcoming of the Atlas or for any mistake therein.

SITE LOCATIONS AND SPECIES LISTS

The upper Tombigbee River drainage lies in northwest Alabama and northeast Mississippi and covers an area of approximately 8900 square miles (Fig.1).

Sites are numbered sequentially (1 through 352) from the lowermost part of the system to the upper. In the site descriptions, the name of the stream is given first, followed by county, state, topographic map, township, range and section, and, lastly, additional information helpful in locating the site on a map or in the field. A 10/m line represents site information repeated immediately above. T - Township, R - Range, and Sec - Section. Regarding Section divisions, usually the quarter section or the quarter/quarter section is given. SW,NE, for example, reads southwest quarter of the northeast quarter. The usual compass abbreviations are used. Occasionally, it is convenient to place a site in the central, or N-, E-, S-, W-central area of a section. Regarding road designations, US = a Federal Highway; Hwy = a State Highway; and CoRd = a secondary State Road or County Road. Distances are in miles: mi - miles by road or up and down a stream, airmi - air miles, rmi - river miles from Government Street, Mobile, Alabama. Periods following standard abbreviations are usually omitted. Prepositions are omitted in phrases stating directions; for example, "2 mi NE Amory," instead of "2 mi NE of Amory." Names of streams are spelled as they appear on USGS maps, 1:24,000 series.

Museum abbreviations are: AUM - Auburn University Museum; INHS - Illinois Natural History Survey; MMNS - Mississippi Museum of Natural Sciences; MSU - Mississippi State University; NLU - Northeastern Louisiana

University Museum of Zoology; TU - Tulane University, Belle Chasse; UAIC - University of Alabama Ichthyological Collection; UF - University of Florida, Florida State Museum; UMS - University of Mississippi; UMMZ - University of Michigan Museum of Zoology; UNO - University of New Orleans; USM - University of Southern Mississippi; USNM - United States National Museum; and UT - University of Tennessee. WDH and CAS - the collections of Walter D. Hubbard and C. A. Schultz, respectively, Mississippi Department of Conservation. TTW - Tennessee-Tombigbee Waterway.

Included in each site description is a list of museums that house the voucher specimens and the date (by year) of the collections. Comments are occasionally made concerning the physical changes of a site as a result of the TTW.

A list of the species known to occur at each site follows the site description. With very few exceptions, the species listed are documented by voucher specimens in the various museums. Collections date from 1931 to 1988, with the great majority between 1963 and 1983. To my knowledge, no significant collections were made in the "main channel" or in the pools and canals above Columbus Lock and Dam since 1980, except for an ongoing study by the U.S. Fish and Wildlife Service for the Corps of Engineers (Table 1.)

The number of species collected at a given site ranges from one to 92 (Site 223). Equal effort was not expended at each site and the list of fishes for some sites is a composite result of numerous repetitions. Likewise, equal

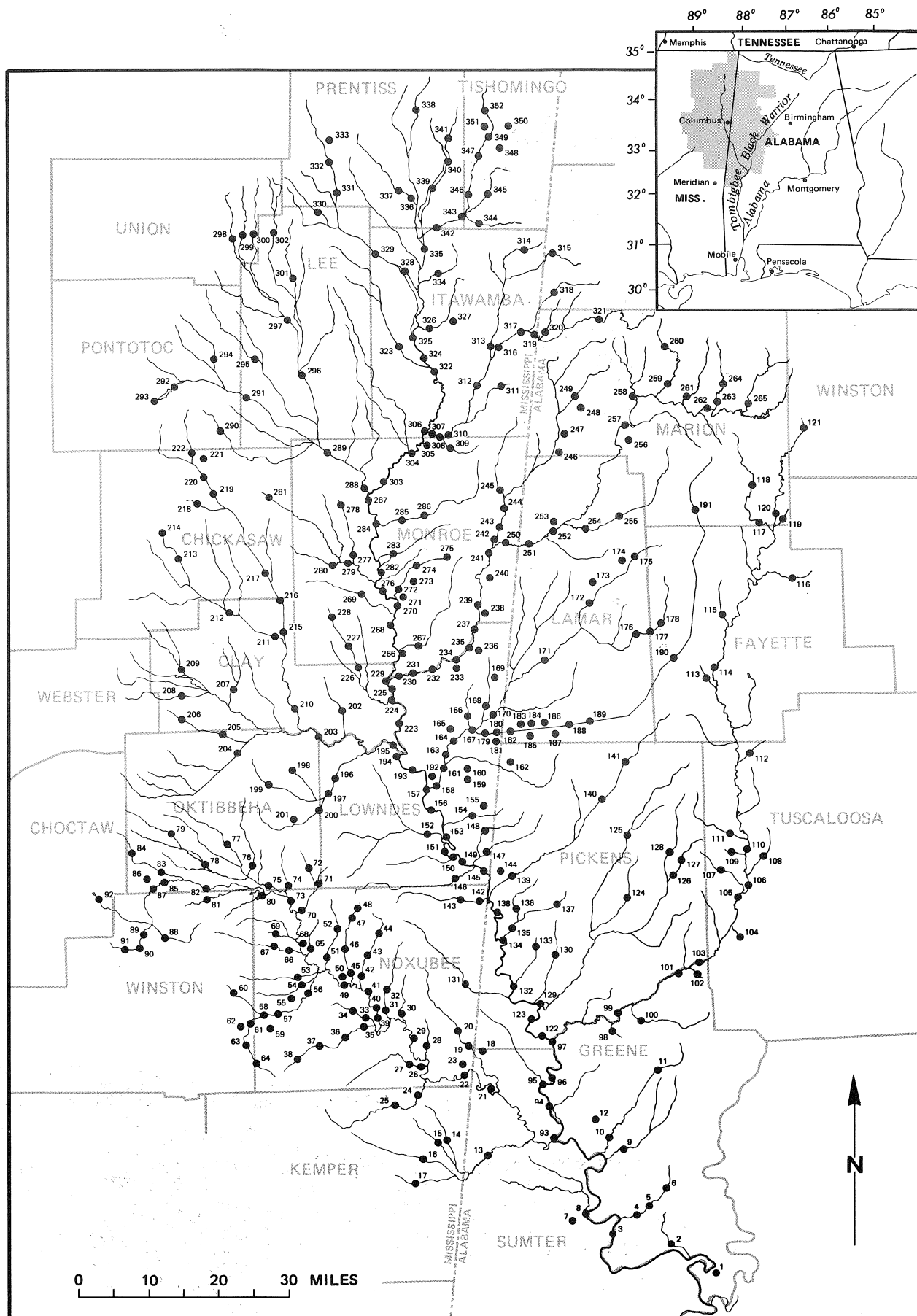


Fig. 1. The upper Tombigbee River system. The numbered dots represent the location of the sites collected.

effort was not given to geographical areas. Some streams, such as those typical of the Black Belt physiographic region, are not particularly species rich and tend to be neglected. The total number of dots on the distribution maps is 7971. Given that the same species may have been collected from a site on several occasions, the total number of voucher lots in the museums cited above probably would exceed 20,000.

1. Birdine Creek. Greene County, Ala. Demopolis Quad. T19S, R2E, Sec 25 NE. About 3.5 mi N Warrior River bridge on US 43. UAIC '51. Inundated by Demopolis Pool in 1955.

11 Species: *Anguilla rostrata*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. marginatus*, and *L. microlophus*.

2. McConnico Creek. Greene County, Ala. Forkland Quad. T19N, R2E, Sec 7 N-central. About 2.5 mi SW Forkland on CoRd 4. TU '72.

27 Species: *Esox americanus*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Notropis candidus*, *N. maculatus*, *N. texanus*, *Opsopoeodus emiliae*, *Erimyzon sucetta*, *Minytrema melanops*, *Ictalurus punctatus*, *Aphredoderus sayanus*, *Fundulus notatus*, *F. notii*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. marginatus*, *L. microlophus*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. proeliare*, *E. whipplei*, and *Aplodinotus grunniens*.

3. Tombigbee River. Sumter County, Ala. Epes Quad. T20N, R1W, Sec 35 SE. About 2 mi below mouth of Taylor Creek. AUM '80; UAIC '68. Site not collected previous to its inundation by Demopolis Pool in 1955.

9 Species: *Cyprinella venusta*, *Notropis atherinoides*, *N. candidus*, *N. edwardraneyi*, *Carpionotus velifer*, *Ictiobus bubalus*, *Strongylura marina*, *Mugil cephalus*, and *Aplodinotus grunniens*.

4. Taylor Creek. Greene County, Ala. Forkland Quad. T20N, R1E, Sec 21 Central. On CoRd 9. TU '72; UAIC '66, '83.

23 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis edwardraneyi*, *N. texanus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Moxostoma poecilurum*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, and *E. whipplei*.

5. _____. T20N, R1E, Sec 15 NE. On CoRd 19. UAIC '66, '83.

17 Species: *Campostoma oligolepis*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Erimyzon oblongus*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. microlophus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. parvipinne*, *E. proeliare*, and *E. whipplei*.

6. _____. T20N, R1E, Sec 1 SW, NE. On CoRd 10. UAIC '66, '83.

16 Species: *Campostoma oligolepis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Pimephales notatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*,

Micropterus salmoides, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, and *E. whipplei*.

7. Wiggins Creek, trib to Jones Creek. Sumter County, Ala. Epes West Quad. T20N, R2W, Sec 25 SE, NW. On US 11 about 1 mi SW Epes. UMMZ '41.

12 Species: *Lepisosteus osseus*, *Campostoma oligolepis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Moxostoma poecilurum*, *Ameiurus melas*, *Fundulus notatus*, and *Gambusia affinis*.

8. Tombigbee River. Sumter-Greene county line, Ala. Epes East Quad. T20N, R1W, Sec 20 NW. Near mouth of Factory Creek. AUM '53; UAIC '53, '71, '83; UMMZ '61. Inundated by Demopolis Pool in 1955.

30 Species: *Scaphirhynchus* sp. cf. *platyrhynchus*, *Lepisosteus oculatus*, *L. osseus*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Cyprinus carpio*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis atherinoides*, *N. edwardraneyi*, *Carpionotus cyprinus*, *Carpionotus velifer*, *Cycleptus elongatus*, *Ictiobus bubalus*, *Minytrema melanops*, *Ictalurus furcatus*, *I. punctatus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, and *Aplodinotus grunniens*.

9. Brush Creek. Greene County, Ala. Boligee Quad. T21N, R1E, Sec 7-central. On CoRd 19 about 4 airmi N Boligee. UAIC '66, '83.

16 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, and *E. stigmaeum*.

10. Trussells Creek. Greene County, Ala. Boligee Quad. T21N, R1W, Sec 2 NE. On CoRd 19 about 2.75 mi SE New Mt. Hebron. UAIC '52, '66, '76, '79, '83.

53 Species: *Dorosoma cepedianum*, *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. baileyi*, *N. edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Minytrema melanops*, *Moxostoma erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Pylodictis olivaris*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., *Percina maculata*, *P. nigrofasciata*, *P. sciera*, and *Aplodinotus grunniens*.

11. _____. Union Quad. T23N, R1E, Sec 26 NW, NE. On CoRd 23 about 4 airmi SW Union. UAIC '66, '83.

25 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Noturus leptacanthus*, *Fundulus*

olivaceus, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma parvipinne*, *E. rupestre*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

12. Tubbs Creek. Greene County, Ala. West Greene Quad. T22N, R1W, Sec 16/17 south. On CoRd 19 about 2 mi NW New Mt. Hebron. UAIC '66, '83.

20 Species: *Dorosoma cepedianum*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Fundulus notatus*, *Gambusia affinis*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. proeliare*, and *E. whipplei*.

SITES 13 THRU 92 ARE IN THE NOXUBEE SYSTEM

13. Bodka Creek. Sumter County, Ala. Geiger Quad. T21N, R3W, Sec 8 SE. On Hwy 17 just above intersection of Hwy 116. UAIC '66, '83.

19 Species: *Lepisosteus oculatus*, *Dorosoma cepedianum*, *Cyprinella venusta*, *Lythrurus bellus*, *Pimephales vigilax*, *Moxostoma erythrurum*, *Ictalurus furcatus*, *I. punctatus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. stigmaeum*, and *Aplodinotus grunniens*.

14. Shy Hammock Creek, trib of Bodka Creek. Kemper County, Miss. Scooba Quad. T11N, R19E, Sec 6. On Hwy 16 about 4 mi E Scooba. WDH '83.

15 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Ameiurus natalis*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, and *Etheostoma whipplei*.

15. Pushacoona Creek. Kemper County, Miss. Scooba Quad. T11N, R18E, Sec 2 NE, SE. On Hwy 16 about 3.25 mi E Scooba. UAIC '66, '83.

14 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Ameiurus melas*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, and *Etheostoma nigrum*.

16. Big Scooba Creek. Kemper County, Miss. Scooba Quad. T11N, R18E, Sec 16 SE. On US 45 between Scooba and Electric Mills. UAIC '66, '83; WDH '83.

22 Species: *Alosa chrysochloris*, *Esox americanus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Minytrema melanops*, *Ameiurus melas*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, *E. nigrum*, and *E. proeliare*.

17. Bodka Creek. Kemper County, Miss. Scooba Quad. T11N, R18E, Sec 33 NW, SW. UAIC '66, '83.

18 Species: *Dorosoma cepedianum*, *Hybognathus hayi*, *Notemigonus crysoleucas*, *Notropis volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia*

affinis, *Elassoma zonatum*, *Lepomis macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, and *E. proeliare*.

18. Beaver Creek, trib to Woodward Creek. Sumter County, Ala. Panola, Ala. Quad. T23N, R3W, Sec 9 SE. On Hwy 17. UAIC '66, '83.

15 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Ameiurus melas*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Etheostoma chlorosomum*, and *E. proeliare*.

19. Woodward Creek. Noxubee County, Miss. Panola Quad. T13N, R19E, Sec 10/15 S-central. About 2 mi upstream of Ala-Miss state line. WDH '83.

20 Species: *Cyprinus carpio*, *Cyprinella venusta*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Ameiurus natalis*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma chlorosomum*, and *E. whipplei*.

20. Woodward Creek. Noxubee County, Miss. Dancy Quad. T14N, R19E, Sec 32 SE. About 5 mi upstream of Ala-Miss state line. WDH '83.

19 Species: *Dorosoma cepedianum*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Ameiurus natalis*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. proeliare*, and *E. whipplei*.

21. Noxubee River. Sumter County, Ala. Panola Quad. T23N, R3W, Sec 33 NNE. On Hwy 17, 4.4 mi N Geiger. TU '67.

19 Species: *Hybognathus nuchalis*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis candidus*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, and *L. macrochirus*.

22. Noxubee River. Noxubee County, Miss. Panola Quad. T13N, R19E, Sec 28 S-central. WDH '83.

32 Species: *Dorosoma petenense*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Notropis atherinoides*, *N. stilbius*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Percina lenticula*, *P. sciera*, *P. shumardi*, and *Aplodinotus grunniens*.

23. Ash Creek. Noxubee County, Miss. Panola Quad. T13N, R19E, Sec 17 NE. Near Cooksville Community. WDH '83.

15 Species: *Amia calva*, *Erimyzon oblongus*, *Ameiurus natalis*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, and *E. whipplei*.

24. Wahalak Creek. Kemper County, Miss. Paulette Quad. T12N, R18E, Sec 9 NW,NW. WDH '83.

21 Species: *Dorosoma cepedianum*, *Cyprinella venusta*, *Lythrurus bellus*, *Ameiurus natalis*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Etheostoma chlorosomum*, *E. proeliare*, *E. whipplei*, and *Percina maculata*.

25. _____. Shuqualak Quad. T12 N, R 17E, Sec 13 NE,NE. On US 45 about 1 mi S Wahalak. UAIC '66, '83.

16 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Moxostoma poecilurum*, *Fundulus notatus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, *E. nigrum*, *E. whipplei*, and *Percina maculata*.

26. Shuqualak Creek. Noxubee County, Miss. Paulette Quad. T13N, R18E, Sec 21 W-central. WDH '83.

10 Species: *Pimephales notatus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis macrochirus*, *L. megalotis*, *L. punctatus*, *Etheostoma proeliare*, and *E. whipplei*.

27. _____. T13N, R18E, Sec 22 N-central. WDH '83.

28 Species: *Dorosoma cepedianum*, *Esox americanus*, *Cyprinella venusta*, *Cyprinus carpio*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Erimyzon oblongus*, *Ictiobus bubalus*, *Minytrema melanops*, *Ictalurus punctatus*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, *E. proeliare*, *E. whipplei*, and *Percina maculata*.

28. Jordan Creek. Noxubee County, Miss. Paulette Quad. T13N, R18E, Sec 3/10. About 0.5 mi WNW Paulette. UAIC '72, '83; WDH '83.

27 Species: *Dorosoma cepedianum*, *Campostoma oligolepis*, *Cyprinus carpio*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon sucetta*, *Ictiobus bubalus*, *Ictalurus punctatus*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, and *E. whipplei*.

29. Noxubee River. Noxubee County, Miss. McLeod Quad. T14N, R18E, Sec 33 S-central. Gravel bar below Mohanus Bridge, about 6 mi NE Shuqualak. WDH '83.

55 Species: *Lepisosteus oculatus*, *L. osseus*, *Amia calva*, *Anguilla rostrata*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. stilbius*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpionodes velifer*, *Erimyzon oblongus*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma carinatum*, *M. poecilurum*, *Ameiurus melas*, *A. natalis*, *A. nebulosus*, *Ictalurus furcatus*, *I. punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*,

Lepomis cyanellus, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma chlorosomum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, *P. sciera*, and *Aplodinotus grunniens*.

30. Tibby Creek. Noxubee County, Miss. McLeod Quad. T14N, R18E, Sec 19 NE,NW. About 3.8 mi SE Macon. WDH '83.

19 Species: *Campostoma oligolepis*, *Hybognathus hayi*, *H. nuchalis*, *Luxilus chrysocephalus*, *Pimephales notatus*, *Ameiurus natalis*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, and *E. whipplei*.

31. Plum Creek. Noxubee County, Miss. Macon Quad. T14N, R17E, Sec 11/14. About 2 mi SE Macon. WDH '83.

18 Species: *Campostoma oligolepis*, *Cyprinus carpio*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Ameiurus natalis*, *Noturus gyrinus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Etheostoma nigrum*, and *E. whipplei*.

32. _____. T14N, R17E, Sec 2 NE,NE. On Hwy 14 about 1.5 mi E US 45 bypass. WDH '83.

8 Species: *Dorosoma cepedianum*, *Cyprinus carpio*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Fundulus olivaceus*, *Gambusia affinis*, and *Lepomis macrochirus*.

33. Dry Creek, a trib of Macedonia Creek. Noxubee County, Miss. Macon Quad. T14N, R17E Sec 21 W-central. About 0.25 mi W US 45. WDH '83.

15 Species: *Notemigonus crysoleucas*, *Pimephales notatus*, *Minytrema melanops*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Pomoxis annularis*, and *Etheostoma chlorosomum*.

34. _____. T14N, R17E, Sec 17/18. About 2.75 mi SW Macon. WDH '83.

15 Species: *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Nocomis leptoccephalus*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Etheostoma whipplei*, and *Percina sciera*.

35. Macedonia Creek. Noxubee County, Miss. Macon Quad. T14N, R17E, Sec 28 Central. Just W US 45 bridge. WDH '83.

28 Species: *Cyprinella venusta*, *Notropis texanus*, *Pimephales notatus*, *P. vigilax*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. microlophus*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, and *Percina nigrofasciata*.

36. Running Water Creek, trib of Macedonia Creek. Noxubee County, Miss. Macon Quad. T13N, R16E, Sec 1 NW. WDH '83.

30 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Ammocrypta meridiana*, *Etheostoma parvipinne*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*.

37. _____ . Mashulaville Quad. T13N, R16E, Sec 4 SE. About 1.5 mi SSE Macedonia. UAIC '66, '83.

26 Species: *Ichthyomyzon gagei*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Noturus leptacanthus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Etheostoma nigrum*, *E. parvipinne*, *Etheostoma* sp., and *Percina nigrofasciata*.

38. _____ . Gholson Quad. T13N, R16E, Sec 7 SW,SW. WDH '83.

11 Species: *Cyprinella venusta*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Noturus leptacanthus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis macrochirus*, and *Percina nigrofasciata*.

39. Noxubee River. Noxubee County, Miss. Macon Quad. T14N, R17E, Sec 22. CAS '68; WDH '82.

38 Species: *Lepisosteus oculatus*, *L. osseus*, *Amia calva*, *Anguilla rostrata*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Cyprinella venusta*, *Cyprinus carpio*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Pimephales vigilax*, *Carpiodes velifer*, *Erimyzon oblongus*, *E. sucetta*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma poecilurum*, *Ameiurus melas*, *Ictalurus furcatus*, *I. punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *Pyloodictis olivaris*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *P. sciera*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

40. _____ . Noxubee County, Miss. Macon Quad. T14N, R17E, Sec 15 NE,NE. About 3.5 mi SE Macon. WDH '83.

28 Species: *Dorosoma cepedianum*, *Cyprinella venusta*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis atherinoides*, *N. stilbius*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *Pyloodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. whipplei*, *Percina lenticula*, *P. maculata*, *P. sciera*, and *Aplodinotus grunniens*.

41. _____ . Noxubee County, Miss. Macon Quad. T14N, R17E, Sec 4 NW. About 0.25 mi E US 45 near Macon city limits. WDH '83.

7 Species: *Cyprinella venusta*, *Pimephales notatus*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Etheostoma rupestre*, *E. whipplei*, and

Percina sciera.

42. Horse Hunter Creek. Noxubee County, Miss. Macon Quad. T15N, R17E, Sec 32 NE. About 0.5 m W Macon. WDH '83.

22 Species: *Dorosoma cepedianum*, *Cyprinella venusta*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Etheostoma gracile*, *E. proeliare*, *E. whipplei*, and *Aplodinotus grunniens*.

43. _____ . Noxubee County, Miss. Brooksville Quad. T15N, R17E, Sec 16 NW,NE. On US 45 about 5 mi S Brooksville. TU '51; UAIC '65, '72, '83; WDH '83.

24 Species: *Dorosoma cepedianum*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *E. sucetta*, *Ameiurus melas*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, and *E. whipplei*.

44. _____ . Noxubee County, Miss. Brooksville Quad. T16N, R17E, Sec 26/36. About 2 mi SE Brooksville. WDH '83.

10 Species: *Lythrurus bellus*, *Notemigonus crysoleucas*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, and *Micropterus salmoides*.

45. Joes Creek. Noxubee County, Miss. Brooksville Quad. T15N, R17E, Sec 19/30 Central. About 1.5 mi NW Macon. WDH '83.

21 Species: *Dorosoma cepedianum*, *Cyprinella venusta*, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Etheostoma chlorosomum*, and *E. whipplei*.

46. _____ . T15N, R17E, Sec 7 NW,NW. About 3.5 mi NW Macon. WDH '83.

14 Species: *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Ameiurus melas*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, and *E. whipplei*.

47. _____ . T16N, R17E, Sec 19 NE,NE. About 0.25 mi W Brooksville. WDH '83.

9 Species: *Lythrurus bellus*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, and *E. parvipinne*.

48. _____ . T16N, R17E, Sec 17. WDH '83.

8 Species: *Lythrurus bellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Etheostoma chlorosomum*, and *E. whipplei*.

49. Noxubee River. Noxubee County, Miss. Macon Quad. T15N,

R17E, Sec 31-Central. About 2.5 airmi W Macon and 1 mi N Hwy 14. CAS '68.

26 Species: *Lepisosteus osseus*, *Anguilla rostrata*, *Dorosoma cepedianum*, *Cyprinella venusta*, *Cyprinus carpio*, *Hybognathus hayi*, *Lythrurus bellus*, *Pimephales vigilax*, *Opsopoeodus emiliae*, *Carpionotus velifer*, *Ictiobus bubalus*, *Ictalurus punctatus*, *Noturus gyrinus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Ambloplites ariommus*, *Lepomis humilis*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma whipplei*, *Percina sciera*, and *Aplodinotus grunniens*.

50. Unnamed trib. Noxubee County, Miss. Lynn Creek Quad. T15N, R16E, Sec 14 S-central. About 3.5 mi NW Macon and 1 mi N Noxubee River. WDH '89.

8 Species: *Lythrurus bellus*, *Pimephales notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. microlophus*, and *Etheostoma parvipinne*.

51. West Water Creek. Noxubee County, Miss. Lynn Creek Quad. T15N, R16E, Sec 10 E-central. About 5 mi NW Macon and 1.3 mi N Noxubee River. WDH '83.

11 Species: *Esox americanus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, and *Micropterus salmoides*.

52. _____ Brooksville Quad. T16N, R16E, Sec 36 NW,NW. About 1.5 mi SW Brooksville. WDH '83.

7 Species: *Lythrurus bellus*, *Pimephales vigilax*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, and *L. macrochirus*.

53. Sun Creek. Noxubee County, Miss. Lynn Creek Quad. T15N, R16E, Sec 30 Central. About 7 mi SW Brooksville and 2.25 mi WSW Noxubee River. WDH '83.

16 Species: *Lythrurus bellus*, *Pimephales notatus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. whipplei*, and *Percina maculata*.

54. Brown Branch Creek. Noxubee County, Miss. Mashulaville Quad. T15N, R16E, Sec 29/32. About 6.75 mi W Macon and 2 mi SW Noxubee River. WDH '83.

21 Species: *Esox americanus*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Etheostoma parvipinne*, *E. proeliare*, *E. whipplei*, and *Percina nigrofasciata*.

55. Wolf Creek, trib to Brown Branch Creek. Noxubee County, Miss. Mashulaville Quad. T15N, R15E, Sec 36 SE,NE. WDH '83.

27 Species: *Esox americanus*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L.*

gulosus, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. parvipinne*, *E. whipplei*, *Percina maculata*, and *P. nigrofasciata*.

56. Hashuqua Creek. Noxubee County, Miss. Mashulaville Quad. T14N, R16E, Sec 5 NE. About 0.25 mi S Hwy 14. CAS '68, '69; UAIC '66, '83.

35 Species: *Lepisosteus oculatus*, *Dorosoma cepedianum*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis atherinoides*, *N. stilbuis*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. swaini*, *Percina nigrofasciata*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

57. _____ T14N, R15E, Sec 15 E-central. About 1.5 mi S Hwy 14. UAIC '66, '83; WDH '83.

37 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Luxilus chrysocephalus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *Pomoxis annularis*, *Ammocrypta beani*, *Etheostoma chlorosomum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma sp.*, *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, and *Aplodinotus grunniens*.

58. _____ Fearn Springs Quad. T14N, R15E, Sec 20 N-central. About 2 mi E Winston-Noxubee county line. MSU '70.

22 Species: *Ichthyomyzon gagei*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *Lythrurus bellus*, *Luxilus chrysocephalus*, *Nocomis leptoccephalus*, *Notropis stilbuis*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Moxostoma poecilurum*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Ammocrypta beani*, *Etheostoma rupestre*, *Percina lenticula*, *P. nigrofasciata*, and *Stizostedion vitreum*.

59. Dancing Rabbit Creek, trib to Hashuqua Creek. Noxubee County, Miss. Fearn Springs Quad. T14N, R15E, Sec 34 SE,SW. About 5 mi S Hwy 14 and 3 mi S Hashuqua Creek. WDH '83.

20 Species: *Esox americanus*, *E. niger*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus funebris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Etheostoma parvipinne*, *E. whipplei*, *Percina maculata*, and *P. nigrofasciata*.

60. Trib of Hashuqua Creek. Winston County, Miss. Fearn Springs Quad. T14N, R14E, Sec 3 NE. On Hwy 14 about 2 mi W Winston-Noxubee county line. MSU '70.

11 Species: *Campostoma oligolepis*, *Ericymba buccata*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*,

Semotilus atromaculatus, *Erimyzon oblongus*, *Hypentelium etowanum*, *Lepomis cyanellus*, and *Etheostoma whipplei*,

61. Blackwater Creek, trib to Hashuqua Creek. Noxubee County, Miss. Fearn Springs Quad. T14N, R15E, Sec 19. At CoRd 490 bridge, 4 mi SW Hwy 14 and Mashuaville. WDH '83.

23 Species : *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Noturus gyrinus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. parvipinne*, *E. stigmaeum*, and *E. whipplei*.

62. Unnamed trib to Hashuqua Creek. Winston County, Miss. Fearn Springs Quad. T14N, R14E, Sec 24. At CoRd 490, 4 mi SW of Hwy 14. UAIC '66, '83; WDH '83.

36 Species : *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp.* cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommmus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma nigrum*, *E. parvipinne*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *Etheostoma sp.*, and *Percina nigrofasciata*,

63. Hashuqua Creek. Winston County, Miss. Fearn Springs Quad. T13N, R14E, Sec 2. About 12.5 mi E Noxapater, and 0.75 mi S Fearn Springs. WDH '83.

13 Species: *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Moxostoma poecilurum*, *Noturus funebris*, *Fundulus olivaceus*, *Elassoma zonatum*, *Lepomis macrochirus*, *Micropterus salmoides*, *Etheostoma whipplei*, and *Percina nigrofasciata*.

64. _____. Noxubee County, Miss. Preston Quad. T13N, R15E, Sec 19 NE. MSU '86.

11 Species: *Esox americanus*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis texanus*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Elassoma zonatum*, *Etheostoma proeliare*, and *Percina sciera*.

65. Earle Creek. Noxubee County, Miss. Lynn Creek Quad. T15N, R16E, Sec 4 NW,SW. About 1.3 mi NNE Noxubee River. WDH '83.

14 Species: *Campostoma oligolepis*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus gyrinus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *Micropterus salmoides*, *Etheostoma parvipinne* and *E. whipplei*.

66. Yellow Creek. Noxubee County, Miss. Lynn Creek Quad. T15N, R15E, Sec 1 SW. About 8.5 mi SW Brooksville. WDH '83.

23 Species: *Anguilla rostrata*, *Esox americanus*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Pimephales notatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus gyrinus*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommmus*, *Lepomis cyanellus*, *L. gulosus*, *L.*

macrochirus, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. parvipinne*, *E. swaini*, *E. whipplei*, and *Percina sciera*.

67. _____. T15N, R15E, Sec 3 NW,SE. About 2.75 mi WNW Noxubee River. WDH '83.

19 Species: *Esox americanus*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Pimephales notatus*, *Erimyzon oblongus*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Etheostoma parvipinne*, *E. proeliare*, *E. stigmaeum*, *E. whipplei*, and *Percina nigrofasciata*.

68. Unnamed trib. Noxubee County, Miss. Lynn Creek Quad. T15N, R16E, Sec 6 N-central. Near Noxubee River. WDH '83.

28 Species: *Cyprinella venusta*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Pimephales vigilax*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommmus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma chlorosomum*, *E. gracile*, *E. proeliare*, *E. rupestre*, *E. whipplei*, *Percina sciera*, and *Aplodinotus grunniens*.

69. Horse Creek. Noxubee County, Miss. Lynn Creek Quad. T16N, R15E, Sec 34/35 N-central. About 1.5 mi E Noxubee Refuge and 2 mi W Noxubee River. WDH '83.

16 Species: *Esox americanus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Erimyzon oblongus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Etheostoma chlorosomum*, *E. proeliare*, and *E. whipplei*.

70. Shotbag Creek. Noxubee County, Miss. Lynn Creek Quad. T16N, R16E, Sec 19 NW,SE. Near confluence with Noxubee River. WDH '83.

17 Species: *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis texanus*, *Ictalurus punctatus*, *Noturus gyrinus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, and *E. whipplei*.

71. _____. Artesia 15" map. T16N, R16E, Sec 4 NW. About 5 mi NW Brooksville. WDH '83.

17 Species: *Dorosoma cepedianum*, *Esox americanus*, *Cyprinella venusta*, *Lythrurus bellus*, *Pimephales vigilax*, *Minytrema melanops*, *Ameiurus melas*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma chlorosomum*, and *E. whipplei*.

72. _____. Oktibbeha County, Miss. Artesia 15" map. T17N, R15E, Sec 24 SW. About 4 mi NW Crawford. UAIC '72, '83.

12 Species: *Lythrurus bellus*, *Notemigonus crysoleucas*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus melas*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *L. microlophus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, and *E. whipplei*.

73. Noxubee River. Noxubee County, Miss. Artesia 15" map. T16N, R15E, Sec 12. Near mouth of Loakaloma Creek at Noxubee Refuge

border. WDH '83.

44 Species: *Amia calva*, *Anguilla rostrata*, *Esox americanus*, *Cyprinella venusta*, *Hybognathus hayi*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Erimyzon sucetta*, *Minytrema melanops*, *Moxostoma poecilurum*, *Ameiurus melas*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Etheostoma chlorosomum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Percina lenticula*, *P. nigrofasciata*, *P. sciera*, and *Aplodinotus grunniens*.

74. Browning Creek. Noxubee County, Miss. Artesia 15" map. T16N, R15E, Sec 2. At Noxubee Refuge boundary, 0.1 mi N Noxubee River. WDH '83.

17 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Ictalurus punctatus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. microlophus*, *Micropterus salmoides*, and *Etheostoma chlorosomum*.

75. Noxubee River. Oktibbeha County, Miss. Bluff Lake Quad. T17N, R14E, Sec 36 SE. At crossing 0.25 mi N Bluff Lake Dam. UAIC '72, '83; WDH '83.

24 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Noturus gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Etheostoma histrio*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, and *Percina sciera*.

76. Jordan Canal. Oktibbeha County, Miss. Bluff Lake Quad. T17N, R14E, Sec 23 N-central. About 7 mi S Starkville, and 1 mi N Noxubee River. WDH '83.

17 Species: *Dorosoma cepedianum*, *D. petenense*, *Cyprinella venusta*, *Notropis texanus*, *Pimephales notatus*, *P. vigilax*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. microlophus*, *Micropterus salmoides*, and *Etheostoma whipplei*.

77. Chinchahoma Creek. Oktibbeha County, Miss. Bluff Lake Quad. T17N, R14E, Sec 17 S-central. At John W. Starr Memorial Forest boundary, and 2 mi NNW Noxubee River. WDH '83.

11 Species: *Notemigonus crysoleucas*, *Minytrema melanops*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, and *L. microlophus*.

78. Cypress Creek. Oktibbeha County, Miss. Bradley Quad. T17N, R13E, Sec 23 NE. At Hwy 25 bridge, 2.5 mi N Noxubee River. WDH '83.

20 Species: *Esox americanus*, *Hybognathus hayi*, *Notropis texanus*, *Opsopoeodus emiliae*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Centrarchus macropterus*,

Lepomis cyanellus, *L. gulosus*, *L. macrochirus*, *L. microlophus*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. proeliare*, *E. swaini*, and *E. whipplei*.

79. _____. T18N, R13E, Sec 32 SE,NW. On Hwy 12 just NE Bradley. UAIC '71, '83.

18 Species: *Esox americanus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Ameiurus natalis*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, and *E. proeliare*.

80. Bluff Lake, south bank. Noxubee County, Miss. Bluff Lake Quad. T16N, R15E, Sec 4/5. MSU '69, '71, '77.

9 Species: *Polyodon spathula*, *Amia calva*, *Notemigonus crysoleucas*, *Opsopoeodus emiliae*, *Erimyzon sucetta*, *Aphredoderus sayanus*, *Elassoma zonatum*, *Lepomis gulosus*, and *L. punctatus*,

81. Jones Creek. Winston County, Miss. Bradley Quad. T16N, R14E, Sec 6 SE. About 1 mi S Noxubee River. MSU '72.

1 Species: *Etheostoma swaini*.

82. Noxubee River. Winston County, Miss. Bradley Quad. T16N, R14E, Sec 6 NE,NE. At Hwy 25 bridge near Oktibbeha-Winston county line. MSU '68, '77; WDH '83.

39 Species: *Dorosoma cepedianum*, *Esox americanus*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Moxostoma poecilurum*, *Ameiurus melas*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *Percina lenticula*, *P. nigrofasciata*, and *P. sciera*.

83. Sand Creek. Oktibbeha County, Miss. Bradley Quad. T17N, R13E, Sec 25 N-central. About 0.75 mi N Morgantown. WDH '83.

20 Species: *Cyprinella venusta*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. proeliare*, *E. stigmaeum*, and *Percina nigrofasciata*.

84. _____. Sturgis Quad. T17N, R12E, Sec 7 SE,SW. On Hwy 12. UMS '56.

12 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, and *Etheostoma nigrum*.

85. Noxubee River. Oktibbeha County, Miss. Bradley Quad. T17N, R13E, Sec 31 NW,NW. Near bridge about 4.5 mi W Hwy 25. WDH '83.

26 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf.

longirostris, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma nigrum*, *E. rupestre*, *Percina nigrofasciata*, *P. sciera*, and *Aplodinotus grunniens*.

86. Golden Horn Creek. Oktibbeha County, Miss. Sturgis Quad. T17N, R12E, Sec 26 SW. About 0.25 mi SW Morgantown. WDH '83.

28 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Moxostoma poecilurum*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. parvipinne*, *E. whipplei*, and *Percina nigrofasciata*.

87. Noxubee River. Winston County, Miss. Sturgis Quad. T16N, R12E, Sec 11. About 1 mi S Winston-Oktibbeha county line. MSU '85; UAIC '67, '83; WDH '83.

35 Species: *Dorosoma cepedianum*, *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. sciera*.

88. Mill Creek. Winston County, Miss. Betheden Quad. At Hwy 25, 1.8 mi above confluence with Noxubee River. NLU '74; UAIC '67, '83; WDH '83.

44 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. sciera*.

89. Little Noxubee River. Winston County, Miss. Louisville Quad. T16N, R12E, Sec 35 E-central. About 3.5 mi N Louisville. NLU '74; WDH '83.

28 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E.*

parvipinne, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. sciera*.

90. _____ T15N, R12E, Sec 2 SW, SW. About 2 mi N Louisville. UAIC '71, '83; WDH '83.

37 Species: *Lampetra aepyptera*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. parvipinne*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., *Percina maculata*, and *P. nigrofasciata*.

91. _____ Louisville North Quad. T15N, R12E, Sec 10 NW. About 2 mi N Louisville. WDH '83.

32 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. sciera*.

92. Choctaw Lake and vicinity (headwaters of Noxubee River). Choctaw County, Miss. Ackerman Quad. T16N, R11E, Sec 2/3. About 3 airmi SE Ackerman. AUM '49; MMNS '80, '82; MSU '68, '69, '70; WDH '83.

26 Species: *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *Pimephales notatus*, *Semotilus atromaculatus*, *Moxostoma poecilurum*, *Minytrema melanops*, *Noturus funebris*, *Fundulus olivaceus*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis nigromaculatus*, *Etheostoma parvipinne*, *E. whipplei*, *Etheostoma* sp., and *P. nigrofasciata*.

93. Tombigbee River. Sumter-Greene counties, Ala. Gainesville Quad. T22N, R2W, Sec 35. About 1 mi above confluence with Noxubee River. AUM '79, '80, '81; MSU '73; UAIC '64. Inundated by Gainesville pool in 1978.

89 Species: *Polyodon spathula*, *Lepisosteus oculatus*, *L. osseus*, *Amia calva*, *Anguilla rostrata*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *D. petenense*, *Esox americanus*, *E. niger*, *Cyprinella lutrensis*, *C. venusta*, *Cyprinus carpio*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. candidus*, *N. edwardraneyi*, *N. maculatus*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpionides cyprinus*, *C. velifer*, *Cycleptus elongatus*, *Erimyzon oblongus*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma erythrurum*, *M. poecilurum*, *Ameiurus melas*, *A. nebulosus*, *A. natalis*, *Ictalurus furcatus*, *I. punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N.*

munitus, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Strongylura marina*, *Fundulus notatus*, *F. notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Morone saxatilis* x *M. chrysops*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. marginatus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma chlorosomum*, *E. fusiforme*, *E. parvipinne*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *E. zoniferum*, *Etheostoma* sp., *Percina sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

94. _____. Warsaw Quad. T22N, R2W, Sec 15. About 4 mi below Warsaw. AUM '79, '80, '81; UAIC '68. Inundated by Gainesville Pool in 1978.

53 Species: *Lepisosteus osseus*, *Amia calva*, *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *Extrarius* sp. cf. *aestivalis*, *Luxilus chrysocephalus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis candidus*, *N. edwarddraneyi*, *N. maculatus*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpionodes velifer*, *Ictiobus bubalus*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N. munitus*, *Aphredoderus sayanus*, *Strongylura marina*, *Fundulus notatus*, *F. notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. marginatus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *Etheostoma chlorosomum*, *E. fusiforme*, *E. histrio*, *E. parvipinne*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Percina sciera*, and *Aplodinotus grunniens*.

95. _____. T23N, R2W, Sec 33/34. At Warsaw and area near mouth of Fenarcke Creek. AUM '79, '80, '81; MSU '68, '74; UAIC '67, '72, '83. Inundated by Gainesville Pool in 1978.

64 Species: *Lepisosteus oculatus*, *L. osseus*, *Dorosoma cepedianum*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. candidus*, *N. edwarddraneyi*, *N. maculatus*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpionodes velifer*, *Ictiobus bubalus*, *Moxostoma erythrurum*, *Ictalurus furcatus*, *I. punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Strongylura marina*, *Fundulus notatus*, *F. notti*, *F. olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Morone saxatilis* x *M. chrysops*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. humilis*, *L. macrochirus*, *L. marginatus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *Percina nigrofasciata*, *P. sciera*, *P. sp. cf. caprodes*, and *Aplodinotus grunniens*.

96. _____. Sumter County, Ala. Warsaw Quad. T23N, R2W, Sec 26/27. At Cooks Bend. AUM '80; UAIC '83. Inundated by Gainesville Pool and severed by navigation channel in 1978.

25 Species: *Lepisosteus oculatus*, *Dorosoma petenense*, *Cyprinus carpio*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *Notropis volucellus*, *Pimephales vigilax*, *Cyclepius elongatus*, *Ictiobus bubalus*, *Minytrema melanops*, *Ictalurus furcatus*, *I. punctatus*, *Pylodictis olivaris*, *Strongylura marina*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis humilis*, *L.*

macrochirus, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma proeliare*, *Percina* sp. cf. *caprodes*, and *Aplodinotus grunniens*.

97. _____. Pickens-Greene counties, Ala. Aliceville South and Warsaw quads. T23N, R2W, Sec 2/3. At and near (0.75 mi above and below) mouth Sipsey River. AUM '80; MSU '86; UAIC '65, '71, '83. Inundated by Gainesville pool in 1978.

40 Species: *Lepisosteus oculatus*, *L. osseus*, *Amia calva*, *Dorosoma cepedianum*, *D. petenense*, *Campostoma oligolepis*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *Macrhybopsis storeriana*, *Notropis atherinoides*, *N. candidus*, *N. texanus*, *N. edwarddraneyi*, *Pimephales notatus*, *P. vigilax*, *Carpionodes cyprinus*, *C. velifer*, *Cyclepius elongatus*, *Ictiobus bubalus*, *Moxostoma poecilurum*, *Ictalurus furcatus*, *I. punctatus*, *Noturus leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Strongylura marina*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta beani*, *Etheostoma rupestre*, *Percina sciera*, and *Aplodinotus grunniens*.

SITES 98 THRU 121 ARE IN THE SIPSEY RIVER SYSTEM

98. Shambley Creek. Greene County, Ala. Pleasant Ridge Quad. T24N, R1W, Sec 25 SE. On CoRd 30 about 3 mi ENE Pleasant Ridge. UAIC '66, '83.

27 Species: *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis stilbius*, *N. texanus*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Ictalurus punctatus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. stigmaeum*, and *Etheostoma* sp.

99. Sipsey River proper. Pickens-Greene counties, Ala. Pleasant Ridge Quad. T24N, R1W, Sec 13 SE, SE. On Greene CoRd 23, about 1.8 mi NW Lewiston. UAIC '67, '83.

15 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Notropis stilbius*, *N. texanus*, *Pimephales vigilax*, *Minytrema melanops*, *Fundulus olivaceus*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma stigmaeum*, *Percina sciera*, and *P. sp. cf. caprodes*.

100. Brush Creek. Greene County, Ala. Mantua Quad. T24N, R1E, Sec 21 NW. On CoRd 30 about 4 mi W Mantua. UAIC '66, '83.

y 24 Species: *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Noturus gyrinus*, *Fundulus olivaceus*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Micropterus salmoides*, *Etheostoma parvipinne*, *E. stigmaeum*, *Etheostoma* sp., and *Percina sciera*.

101. Sipsey River. Greene-Pickens counties, Ala. Mantua Quad. T22S, R13W, Sec 21 W-central. At boat ramp just off CoRd 2. UAIC '65, '66, '68, '69, '83.

53 Species: *Lepisosteus oculatus*, *L. osseus*, *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Erimyzon oblongus*, *E. sucetta*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommmus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma sp.*, *Percina maculata*, *P. nigrofasciata*, *P. sciera*, *P. vigil*, and *P. sp. cf. caprodes*.

102. Taylor Creek. Greene County, Ala. Mantua Quad. T22N, R13W, Sec 22 SW,NE. On CoRd 2. UAIC '65.

4 Species: *Luxilus chrysocephalus*, *Nocomis leptoccephalus*, *Elassoma zonatum*, and *Lepomis punctatus*.

103. Sipse River. Pickens-Greene counties, Ala. Romulus Quad. T22S, R13W, Sec 14. UAIC '65.

15 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Hypentelium etowanum*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Lepomis punctatus*, *Etheostoma histrio*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma sp.*, and *Percina vigil*.

104. Hamner Creek. Tuscaloosa County, Ala. Romulus Quad. T21S, R10W, Sec 27 Central. About 0.33 mi below confluence with Mill Creek. UAIC '66, '83.

16 Species: *Lampetra aepyptera*, *Esox americanus*, *E. niger*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Hypentelium etowanum*, *Noturus funebris*, *N. gyrinus*, *Fundulus olivaceus*, *Gambusia affinis*, *Etheostoma swaini*, *Etheostoma sp.*, and *Percina nigrofasciata*.

105. Sipse River. Tuscaloosa County, Ala. Elrod Quad. T21S, R12W, Sec 3. At old US 82, about 1 mi E Elrod. UAIC '47, '62, '82.

20 Species: *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Notropis texanus*, *Semotilus atromaculatus*, *Erimyzon sucetta*, *Minytrema melanops*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus notti*, *F. olivaceus*, *Elassoma zonatum*, *Lepomis gulosus*, *Etheostoma nigrum*, *E. proeliare*, *E. swaini*, *Etheostoma sp.*, and *Percina nigrofasciata*.

106. _____ T20S, R12W, Sec 26 SE,SE. At US 82. UAIC '60, '62, '63, '64, '66, '67, '68, '73, '78, '79, '80, '81, '83, '84; UF '67, '78.

57 Species: *Ichthyomyzon gagei*, *Amia calva*, *Anguilla rostrata*, *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *C. callistia*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *N. munitus*, *Aphredoderus sayanus*, *Fundulus notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommmus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L.*

megalotis, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma sp.*, *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, *P. sciera*, *P. vigil*, *P. sp. cf. caprodes*, and *Aplodinotus grunniens*.

107. Box Creek. Tuscaloosa County, Ala. Elrod Quad. T20S, R12W, Sec 17 SE. On CoRd 15 about 3 mi S Ecola. UAIC '64.

10 Species: *Erimyzon sucetta*, *Aphredoderus sayanus*, *Fundulus notti*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis punctatus*, *Etheostoma parvipinne*, *E. proeliare*, and *E. swaini*.

108. Wards Mill Creek. Tuscaloosa County, Ala. Lake Lurleen Quad. T20S, R11W, Sec 7 NW,SE. On CoRd 21. UAIC '64, '66, '68, '83.

34 Species: *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *Notropis texanus*, *Pimephales vigilax*, *Erimyzon oblongus*, *E. sucetta*, *Ameiurus natalis*, *Noturus funebris*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus notti*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Etheostoma chlorosomum*, *Etheostoma histrio*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma sp.*, *Percina nigrofasciata*, and *P. vigil*.

109. Eightmile Branch, trib of Cleveland Creek. Tuscaloosa County, Ala. Elrod Quad. T20S, R12W, Sec 4 NW,SE. On CoRd 15 about 0.5 mi S Ecola. UAIC '61.

2 Species: *Amia calva* and *Esox niger*.

110. Sipse River. Tuscaloosa County, Ala. Elrod Quad. T20S, R12W, Sec 2/11. About 2 airmi ESE Echola on CoRd 21 at Shirley bridge. UAIC '64, '65, '68, '79, '81.

40 Species: *Esox niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Hybognathus hayi*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Pteronotropis welaka*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommmus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus punctulatus*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma sp.*, *P. nigrofasciata*, *P. sciera*, and *P. vigil*.

111. Dunn Creek. Tuscaloosa County, Ala. Elrod Quad. T19N, R12W, Sec 27 SW. UAIC '79.

7 Species: *Nocomis leptoccephalus*, *Lythrurus bellus*, *Notropis baileyi*, *Fundulus olivaceus*, *Lepomis macrochirus*, *Etheostoma nigrum*, and *Etheostoma sp.*

112. Kates Creek. Tuscaloosa County, Ala. Brownville Quad. T18S, R12W, Sec 11 NW,SE. UAIC '66.

6 Species: *Lampetra aepyptera*, *Hybopsis sp. cf. longirostris*, *Nocomis leptoccephalus*, *Lythrurus bellus*, *Notropis baileyi*, and *Etheostoma nigrum*.

113. Martins Creek. Fayette County, Ala. Fayette Quad. T16S, R12W, Sec 19 NW,SW. About 3 mi S Fayette on Hwy 171. UAIC '65.

4 Species: *Labidesthes sicculus*, *Etheostoma parvipinne*, *E. proeliare*, and *E. swaini*.

114. Sipse River. Fayette County, Ala. Fayette Quad. T16S, R12W, Sec 8/17. On CoRd 35 about 1.25 mi SE intersection US 43 and Hwy 18 in Fayette. UAIC '82.

18 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Nocomis leptocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. volucellus*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Noturus leptacanthus*, *Lepomis cyanellus*, *L. megalotis*, *Etheostoma chlorosomum*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, and *Percina maculata*.

115. Tributary to Sipse River. Fayette County, Ala. T15S, R12W, Sec 9. On US 43, 6 mi N Fayettee. AUM '54.

1 Species: *Lampetra aepyptera*.

116. Boxes Creek. Fayette County, Ala. Hubbertville Quad. T14S, R11W, Sec 23 NW,NE. On Hwy 13. UAIC '65, '82.

26 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Nocomis leptocephalus*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. texanus*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. megalotis*, *L. microlophus*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., *Percina maculata*, and *P.* sp. cf. *caprodes*.

117. Little New River. Marion County, Ala. Glen Allen Quad. T13S, R11W, Sec 17 N-central. On US 78 about 2 mi NE Glen Allen. UAIC '64, '65.

5 Species: *Minytrema melanops*, *Etheostoma rupestre*, *E. stigmaeum*, *E. whipplei*, and *Percina nigrofasciata*.

118. _____. T12S, R11W, Sec 19 SE,SE. About 1.3 mi WNW Rock City on CoRd 24. UAIC '64.

7 Species: *Campostoma oligolepis*, *Semotilus atromaculatus*, *Pimephales notatus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *Etheostoma nigrum*, and *E. whipplei*.

119. Mallard Creek. Marion County, Ala. Glen Allen Quad. T13S, R11W, Sec 11 S-central. About 1 mi E Texas Community on US 78. UAIC '51, '65.

10 Species: *Campostoma oligolepis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Aphredoderus sayanus*, *Lepomis cyanellus*, *Etheostoma nigrum*, *E. whipplei*, and *Etheostoma* sp.

120. New River. Marion County, Ala. Glen Allen Quad. T13S, R11W, Sec 10/15. Near Texas Community on US 78. TU '63; UAIC '49, '51.

24 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Semotilus atromaculatus*, *Ameiurus natalis*, *Noturus leptacanthus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Ambloplites ariommus*, *Lepomis macrochirus*, *Micropterus salmoides*, *Etheostoma rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*,

121. _____. Winston County, Ala. Lynn Quad. T11S, R10W, Sec 17 SW. About 0.8 airmi W Natural Bridge Community, just N US 278. UAIC '63, '65, '68, '83.

16 Species: *Lampetra aepyptera*, *Campostoma oligolepis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis megalotis*, *Etheostoma chlorosomum*, *E. nigrum*, *E. stigmaeum*, *E. whipplei*, and *Etheostoma* sp.

122. Tombigbee River. Pickens County, Ala. Aliceville South Quad. T24N, R2W, Sec 33 SE/34 SW, and T23N, R2W, Sec 3 NW. Area from 0.75 mi above to 0.75 mi below boat landing at Vienna. UAIC '65, '67, '71, '83. Inundated by Gainesville Pool in 1978.

64 Species: *Lepisosteus oculatus*, *L. osseus*, *Dorosoma cepedianum*, *D. petenense*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H.* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis atherinoides*, *N. baileyi*, *N. candidus*, *N. edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpionodes cyprinus*, *C. velifer*, *Cycleptus elongatus*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ictalurus furcatus*, *I. punctatus*, *Noturus munitus*, *N. nocturnus*, *Pylodictis olivaris*, *Strongylura marina*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *Percina sciera*, *P. shumardi*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

123. _____. T24N, R2W Sec 20 NW. At Cochrane Bend. UAIC '76, '83. Inundated by Gainesville Pool and severed by navigation channel in 1978.

13 Species: *Lepisosteus osseus*, *Dorosoma cepedianum*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Carpionodes velifer*, *Fundulus notatus*, *F. olivaceus*, *Lepomis humilis*, *L. megalotis*, *Micropterus punctulatus*, *Ammocrypta beani*, *Percina sciera*, and *Aplodinotus grunniens*.

124. Little Lubbub Creek. Pickens County, Ala. Carrollton Quad. T20S/T21S, R14W, Sec 33/4. About 4.5 mi E Carrollton and near confluence with Bostic Creek. UAIC '72, '83.

19 Species: *Esox americanus*, *E. niger*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Erimyzon oblongus*, *Minytrema melanops*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis macrochirus*, *L. megalotis*, *L. punctatus*, *Etheostoma chlorosomum*, *Etheostoma* sp., and *Percina maculata*.

125. Lubbub Creek. Pickens County, Ala. Carrollton Quad. T19S, R14W, Sec 28 Central. On US 82 at Reform. UAIC '66, '83.

22 Species: *Esox niger*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis maculatus*, *N. texanus*, *Pteronotropis welaka*, *Opsopoeodus emiliae*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. proeliare*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

126. Little Bear Creek, trib of Bear Creek. Pickens County, Ala. Gordo Quad. T20S, R13W, Sec 20 SW. About 2 mi SW Gordo on CoRd 9 and 0.4 mi above confluence with Bear Creek. UAIC '66, '72, '79, '83.

35 Species: *Dorosoma cepedianum*, *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Nocomis leptocephalus*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pteronotropis welaka*, *Erimyzon oblongus*, *E. sucetta*, *Minytrema melanops*, *Moxostoma poecilurum*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmatum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

127. _____. T20S, R13W, Sec 16 N-central. On US 82 at Gordo. UAIC '62; UF '67.

27 Species: *Esox americanus*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Ameiurus natalis*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma proeliare*, *E. stigmatum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

128. Bear Creek. Pickens County, Ala. Gordo Quad. T20S, R13W, Sec 6 SE, SE. About 2 mi NW Gordo on US 82. TU '72; UAIC '62.

27 Species: *Esox niger*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Pteronotropis welaka*, *Opsopoeodus emiliae*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. megalotis*, *L. punctatus*, *Etheostoma nigrum*, *E. parvipinne*, *E. proeliare*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

129. Tombigbee River. Pickens County, Ala. Aliceville South Quad. T24N, R2W, Sec 9. Near mouth of Lubdub Creek. AUM '81; UAIC '72, '83. Inundated by Gainesville Pool in 1978.

32 Species: *Lepisosteus osseus*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *D. petenense*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis candidus*, *N. stilbius*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Carpoides velifer*, *Minytrema melanops*, *Moxostoma erythrurum*, *Ictalurus punctatus*, *Noturus munitus*, *Strongylura marina*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Etheostoma whipplei*, *Percina* sp. cf. *caprodes*, and *Aplodinotus grunniens*.

130. Blubber Creek. Pickens County, Ala. Aliceville North Quad. T22S, R16W, Sec 13 NW, NW. About 1.5 mi NW Aliceville on Hwy 14. UAIC '66, '83.

13 Species: *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Fundulus olivaceus*, *Lepomis*

macrochirus, *Etheostoma nigrum*, *Percina maculata*, and *P. nigrofasciata*.

131. Bogue Chitto Creek. Noxubee County, Miss. Dancy Quad. T15N, R19E, Sec 33 SE, NW. UAIC '72, '83.

24 Species: *Dorosoma cepedianum*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus melas*, *A. natalis*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, and *E. whipplei*.

132. Tombigbee River. Pickens County, Ala. Pickensville Quad. T22S, R17W, Sec 14 SE. At mouth of Beaver Creek, and about 0.75 upstream from Memphis boat landing. AUM '80; UAIC '72, '83. Inundated by Aliceville Pool in 1978.

54 Species: *Lepisosteus oculatus*, *L. osseus*, *Amia calva*, *Anguilla rostrata*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Hybognathus hayi*, *H. nuchalis*, *Extrarius* sp. cf. *aestivalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis edwardraneyi*, *N. stilbius*, *Pimephales vigilax*, *Carpoides cyprinus*, *C. velifer*, *Ictiobus bubalus*, *Moxostoma erythrurum*, *M. poecilurum*, *Minytrema melanops*, *Ictalurus furcatus*, *I. punctatus*, *Noturus munitus*, *Pylodictis olivaris*, *Fundulus notatus*, *F. notti*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis humilis*, *L. macrochirus*, *L. marginatus*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *Etheostoma chlorosomum*, *E. proeliare*, *E. whipplei*, *E. zoniferum*, *Percina sciera*, *P. sp. cf. caprodes*, and *Aplodinotus grunniens*.

133. Beaver Creek. Greene County, Ala. Aliceville North Quad. T22S, R16W, Sec 4 NE. On Hwy 14 about 4.5 mi NW Aliceville. TU '72; UAIC '66, '83.

30 Species: *Lampetra aepyptera*, *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Erimyzon oblongus*, *Minytrema melanops*, *Noturus gyrinus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmatum*, *Etheostoma* sp., and *Percina nigrofasciata*.

134. Tombigbee River. Pickens County, Ala. Pickensville Quad. T21S, R17W Sec 36 to T22S, R17W, Sec 1/2. Above and below mouth of Big Creek in Big Creek Bend. UAIC '72, '83. Inundated by Gainesville Pool and severed by navigation channel in 1978. Big Creek Bendway tends to close and become stagnant as a result of huge accumulations of silt.

28 Species: *Lepisosteus oculatus*, *Alosa chrysochloris*, *Dorosoma petenense*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. candidus*, *N. edwardraneyi*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Moxostoma erythrurum*, *Fundulus notatus*, *Lepomis macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *Ammocrypta*

asprella, *A. beani*, *A. meridiana*, and *Etheostoma nigrum*.

135. Big Creek. Pickens County, Ala. Pickensville Quad. T21S, R17W, Sec 19/30 west. On Hwy 14 about 1.5 mi SE Pickensville. TU '72; UAIC '77.

33 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Moxostoma erythrurum*, *M. poecilurum*, *Noturus gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis megalotis*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Percina maculata*, *P. nigrofasciata*, *P. sciera*, and *P. vigil*.

136. Taylor-Woolbank Creek. Pickens County, Ala. Aliceville North Quad. T21S, R16W, Sec 18 NE. On Hwy 86 just below confluence with Snake Creek. UAIC '66, '83.

21 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Hypentelium etowanum*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. megalotis*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Etheostoma sp.*, and *Percina nigrofasciata*.

137. Big Creek. Pickens County, Ala. Aliceville North Quad. T21S, R16W, Sec 11/12. On a CoRd about 0.33 mi S Hwy 86. UAIC '66, '83.

26 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Minytrema melanops*, *Moxostoma erythrurum*, *M. poecilurum*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Etheostoma nigrum*, *E. stigmaeum*, *Etheostoma sp.*, and *Percina maculata*.

138. Tombigbee River. Pickens County, Ala. Pickensville Quad. T21S, R17W, Sec 14. AUM '80, '81; UAIC '68, '72, '83. Inundated by Aliceville Pool and severed by navigation channel in 1979. The pool at Pickensville is one of the largest on the TTW and it inundates the lower reaches of Coal Fire Creek and Broken Pumpkin Creek

81 Species: *Lepisosteus oculatus*, *L. osseus*, *Amia calva*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Extrarius sp. cf. aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. candidus*, *N. edwardraneyi*, *N. maculatus*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpionodes cyprinus*, *C. velifer*, *Cycleptus elongatus*, *Erimyzon oblongus*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ameiurus melas*, *A. natalis*, *A. nebulosus*, *Ictalurus furcatus*, *I. punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N. nocturnus*, *Pyloodictis olivaris*, *Aphredoderus sayanus*, *Strongylura marina*, *Fundulus notatus*, *F. notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. marginatus*, *L. megalotis*, *L. microlophus*, *L.*

punctatus, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta beani*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. fusiforme*, *E. proeliare*, *E. stigmaeum*, *E. swaini*, *Percina sciera*, *P. shumardi*, *P. sp. cf. caprodes*, and *Aplodinotus grunniens*.

139. Coal Fire Creek. Pickens County, Ala. Forreton Quad. T20S, R17W, Sec 25 SE,NW. At Hwy 14. UAIC '66, '83.

15 Species: *Esox niger*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis stilbius*, *N. texanus*, *N. volucellus*, *Moxostoma erythrurum*, *M. poecilurum*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, and *L. microlophus*.

140. _____ Reform Quad. T19S, R15W, Sec 1 SE,NW. About 5 mi NNW Reform. UAIC '66, '83; UF'67.

36 Species: *Ichthyomyzon gagei*, *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis sp. cf. longirostris*, *Lythrurus bellus*, *Luxilus chrysocephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Erimyzon tenuis*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta beani*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma sp.*, *Percina nigrofasciata*, *P. sciera*, *P. vigil*, and *P. sp. cf. caprodes*.

141. _____ T18S, R14W, Sec 16 SW,NW. About 7.5 mi N Reform. UAIC '72, '83.

28 Species: *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Erimyzon tenuis*, *Moxostoma erythrurum*, *Noturus gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Etheostoma nigrum*, *E. proeliare*, *E. whipplei*, *Etheostoma sp.*, *Percina maculata*, and *P. nigrofasciata*.

142. Broken Pumpkin Creek. Noxubee County, Miss. Forreton Quad. T16N, R19E, Sec 11/12. MMNS '83. Area of mouth of Broken Pumpkin Creek, now in Aliceville Pool near Miss-Ala state line.

6 Species: *Moxostoma poecilurum*, *Labidesthes sicculus*, *Lepomis punctatus*, *Etheostoma chlorosomum*, *E. nigrum*, and *E. proeliare*.

143. _____ T16N, R17W, Sec 10 NW,SW. About 0.6 mi N Bigbee Valley. AUM '79.

3 Species: *Ameiurus natalis*, *Noturus gyrinus*, and *Etheostoma zoniferum*.

144. Lindsey Branch. Pickens County, Ala. Forreton Quad. T20S, R17W, Sec 14 SE. On Hwy 14 about 6.6 mi N Pickinsville. TU '72.

11 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Lepomis cyanellus*, *L. megalotis*, and *Etheostoma whipplei*.

145. Tombigbee River. Noxubee County, Miss. Forreton Quad. T17N, R19E, Sec 34. CAS '68. Inundated by Aliceville Pool.

1 Species: *Stizostedion vitreum*.

146. James Creek (Big Ditch Creek). Lowndes County, Miss. Trinity Quad. T17N, R18E, Sec 35 NE,NE. UAIC '72, '83.

16 Species: *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Erimyzon oblongus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, and *E. proeliare*.

147. Kincaide Creek. Lowndes County, Miss. Forreton Quad. T20S, R17W, Sec 3 NE,SW. At Hwy 69 about 0.4 mi W Miss-Ala. state line. UAIC '66, '83.

15 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. macrochirus*, *Etheostoma stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

148. Nash Creek, trib of Kincaide Creek. Lowndes County, Miss. New Hope Quad. T19S, R17W, Sec 28 E-central. At Hwy 69. UAIC '66, '83.

23 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. proeliare*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*.

149. Tombigbee River. Lowndes County, Miss. Forreton Quad. T17N, R19E, Sec 19. At Nashville Ferry between Hairston Bend and Kincaide Creek. MMNS '83; UAIC '71. Inundated by Aliceville Pool and severed by navigation channel in 1979.

12 Species: *Hiodon tergisus*, *Luxilus chrysocephalus*, *Carpododes cyprinus*, *C. velifer*, *Cycleptus elongatus*, *Ictiobus bubalus*, *Moxostoma carinatum*, *Ictalurus furcatus*, *I. punctatus*, *Micropterus punctulatus*, *Percina sciera*, and *Aplodinotus grunniens*.

150. _____. Trinity Quad. T17N, R18W, Sec 14. About 0.25 mi below mouth of Cedar Creek, in Hairston Bend. CAS '68. Inundated by Aliceville Pool and severed by navigation channel in 1979.

25 Species: *Dorosoma cepedianum*, *Hiodon tergisus*, *Cyprinella venusta*, *Hybopsis winchelli*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Carpododes velifer*, *Ictiobus bubalus*, *Ictalurus furcatus*, *I. punctatus*, *Noturus gyrinus*, *Pylodictis olivaris*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma whipplei* and *Aplodinotus grunniens*.

151. _____. Lowndes County, Miss. Trinity Quad. T20S, R18W, Sec 11. Between rmi 319-320, about 10 mi S Columbus in Hairston Bend. CAS '68; MSU '69, '71; UAIC '72, '83. Inundated by Aliceville Pool and severed by navigation channel in 1979.

49 Species: *Lepisosteus oculatus*, *L. osseus*, *Anguilla rostrata*, *Alosa alabamiae*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*,

N. edwardraneyi, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpododes velifer*, *Hyptelium etowanum*, *Ictiobus bubalus*, *Moxostoma carinatum*, *M. poecilurum*, *Ictalurus furcatus*, *I. punctatus*, *Noturus munitus*, *Pylodictis olivaris*, *Fundulus notatus*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *Etheostoma histrio*, *E. nigrum*, *E. stigmaeum*, *E. swaini*, *Percina sciera*, *P. shumardi*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

152. Magowah Creek, near Tombigbee River. Lowndes County, Miss. Columbus South Quad. T19S, R18E, Sec 32 S-central. CAS '68, '69; MMNS '79. Inundated by Aliceville pool in 1979.

2 Species: *Lepomis punctatus* and *Stizostedion vitreum*.

153. Tombigbee River. Lowndes County, Miss. Columbus South and Trinity quads. Area from Ellis Creek to Harriston Bend. AUM '81; MMNS '79; MSU '79; UAIC '72. Inundated by Aliceville Pool in 1979.

24 Species: *Lepisosteus osseus*, *Dorosoma cepedianum*, *D. petenense*, *Cyprinella venusta*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Notropis atherinoides*, *N. edwardraneyi*, *Pimephales vigilax*, *Carpododes velifer*, *Cycleptus elongatus*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus munitus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus salmoides*, and *Ammocrypta meridiana*.

154. Ellis Creek. Lowndes County, Miss. New Hope Quad. T19S, R17W, Sec 17 NW,SE. About 7.3 mi SSE Columbus on Hwy 69. AUM '79; MMNS '69, '79; TU '72; UAIC '64, '69, '79.

33 Species: *Esox americanus*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Fundulus notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Etheostoma nigrum*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., *Percina maculata*, *P. nigrofasciata*, *P. shumardi*, and *P. vigil*.

155. Lake Lowndes. Lowndes County, Miss. New Hope Quad. T19S, R17W, Sec 10. About 8 mi SE Columbus on a trib of Ellis Creek. MSU '69.

2 Species: *Cyprinella venusta*, and *Luxilus chrysocephalus*.

156. Tombigbee River. Lowndes County, Miss. Columbus South Quad. T19S, R18E, SEC 16. About 2.5 mi below mouth of Luxapallila River at rmi 326. AUM '79, '80; CAS '63; MMNS '63, '79; MSU '72, '73, '80; UAIC '72, '83. Inundated by Aliceville Pool in 1979.

66 Species: *Lepisosteus oculatus*, *Anguilla rostrata*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Esox niger*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Cyprinus carpio*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpododes cyprinus*, *C. velifer*, *Hyptelium etowanum*, *Ictiobus bubalus*, *Moxostoma erythrurum*, *Ameiurus melas*, *Ictalurus furcatus*, *I. punctatus*, *Noturus leptacanthus*, *N. munitus*, *Pylodictis*

olivaris, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Percina nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

157. _____ Columbus South Quad. T18S, R18W, Sec 5. At mouth of Luxapallila River 0.75 mi above to 0.75 mi below. AUM '79; CAS '68, '69; MMNS '79; UAIC '72; UMS '63; UT '72. Inundated by Aliceville Pool in 1979.

40 Species: *Lepisosteus oculatus*, *Dorosoma cepedianum*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Extrarius sp. cf. aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Lythrurus bellus*, *Notropis atherinoides*, *N. edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Pimephales vigilax*, *Carpiodes velifer*, *Hypentelium etowanum*, *Noturus munitus*, *Strongylura marina*, *Labidesthes sicculus*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma histrio*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma sp.*, *Percina sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

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158. Luxapallila River. Lowndes County, Miss. Columbus South Quad. T18S, R18W, Sec 33 NE. Area from 1 to 2 mi above mouth. CAS '68, '69; MSU '73, '74, '75 '76. Numerous collections were made at this site by Kelly (1975) in 1974-75. Inundated by Aliceville Pool in 1979.

69 Species: *Dorosoma cepedianum*, *D. petenense*, *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Extrarius aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis edwardraneyi*, *N. maculatus*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpiodes velifer*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Strongylura marina*, *Fundulus notatus*, *F. notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. marginatus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. fusiforme*, *E. nigrum*, *E. proeliare*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *E. zoniferum*, *Percina maculata*, *P. sciera*, *P. vigil*, and *P. sp. cf. caprodes*, and *Stizostedion vitreum*.

159. McCrary Creek. Lowndes County, Miss. New Hope Quad. T18S, R17W, Sec 30 NW,NW. About 2.5 mi upstream from Luxapallila River. MSU '73.

14 Species: *Esox niger*, *Notropis texanus*, *Opsopoeodus emiliae*, *Erimyzon sucetta*, *Ameiurus melas*, *Labidesthes sicculus*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, and *Etheostoma proeliare*.

160. Vernon Branch, trib of McCrary Creek. Lowndes County, Miss. New Hope Quad. T18S, R17W, Sec 18/19, and R18W, Sec 13/24. E edge Columbus at US 82. AUM '68.

6 Species: *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, and *L. megalotis*.

161. Luxapallila River. Lowndes County, Miss. Columbus North Quad. T18S, R18W, Sec 14 NW. Near mouth of Magby Creek. CAS '67; AUM '79; MSU '79; UAIC '66, '79, '83.

27 Species: *Lepisosteus osseus*, *Amia calva*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis sp. cf. longirostris*, *Lythrurus bellus*, *Notropis texanus*, *Pimephales notatus*, *P. vigilax*, *Hypentelium etowanum*, *Ameiurus natalis*, *Noturus leptacanthus*, *N. munitus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma sp.*, *Percina sciera*, and *Stizostedion vitreum*.

162. Little Magby Creek, trib of Magby Creek. Pickens County, Ala. New Hope Quad. T18S, R16W, Sec 18 W-central. About 0.33 mi above confluence with Magby Creek. UAIC '72.

26 Species: *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Moxostoma poecilurum*, *Noturus funebris*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Etheostoma nigrum*, *E. whipplei*, *Percina maculata*, and *P. nigrofasciata*.

163. Luxapallila River. Lowndes County, Miss. Columbus North Quad. T18S, R18W, Sec 11 W-central. At Hwy 50. CAS '68; MSU '68, '73, '74, '75, '76, '80; UAIC '71; UF '73.

72 Species: *Lepisosteus oculatus*, *L. osseus*, *Dorosoma cepedianum*, *Esox niger*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Extrarius sp. cf. aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpiodes velifer*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N. nocturnus*, *Aphredoderus sayanus*, *Fundulus notatus*, *F. notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma chlorosomum*, *Etheostoma fusiforme*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma sp.*, *Percina maculata*, *P. nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum* and *Aplodinotus grunniens*.

164. _____ Steens Quad. An area about halfway between Columbus and Steens. MSU '75, '76, '80. *Supra* Kelly, 1975.

40 Species: *Dorosoma cepedianum*, *Hiodon tergisus*, *Esox niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis*

winchelli, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *N. munitus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *Percina nigrofasciata*, *P. sciera*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

165. Unnamed tributary. Lowndes County, Miss. Columbus North Quad. T17S, R18W, Sec 25 SW,SW. At Hwy 12 about 0.75 mi upstream from Luxapallila River. UAIC '72, '83.

22 Species: *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis texanus*, *Noturus gyrinus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. marginatus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma proeliare*, *E. swaini*, and *Percina sciera*.

166. Howard Creek. Lowndes County, Miss. Steens Quad. T17S, R17W, Sec 17 W-central. At Hwy 12. MMNS '79; UAIC '72, '79, '83.

24 Species: *Esox americanus*, *Ericymba buccata*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *Etheostoma proeliare*, *E. stigmaeum*, *E. swaini*, and *Etheostoma sp.*

167. Luxapallila River. Lowndes County, Miss. Steens Quad. T17S, R17W, Sec 21 SE,SW. About 0.5 mi W Steens near confluence with Yellow Creek. CAS '68, '69; MMNS '80.

24 Species: *Alosa chrysochloris*, *Dorosoma cepedianum*, *Hiodon tergisus*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Pimephales notatus*, *Carpionotus velifer*, *Ictiobus bubalus*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *Ammocrypta beani*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *Percina nigrofasciata*, *P. sciera*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

168. Cooper Creek, trib of Yellow Creek. Lowndes County, Miss. Steens Quad. T17S, R17W, Sec 10. On Vaughn Robertson Road about 2.5 airmi N Steens. MSU '76; UMS '79.

28 Species: *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. megalotis*, *Etheostoma nigrum*, *E. rupestre*, *E. swaini*, *E. whipplei*, *Percina maculata*, and *P. nigrofasciata*.

169. Mayhew Creek, trib of Cooper Creek. Lowndes County, Miss. Caledonia Quad. T16S, R17W, Sec 26 NW. At Hwy 12 about 1.25 mi from confluence with Cooper Creek. UAIC '72, '83.

18 Species: *Campostoma oligolepis*, *Hybopsis sp. cf. longirostris*,

Luxilus chrysocephalus, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Erimyzon oblongus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Etheostoma nigrum*, *E. stigmaeum*, and *E. whipplei*.

170. Yellow Creek. Lowndes County, Miss. Steens Quad. T17S, R17W, Sec 11, 14/15. About 3 mi from confluence with Luxapallila River. MMNS '48, '80; UAIC '71.

32 Species: *Cyprinella venusta*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis atherinoides*, *N. maculatus*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *Ammocrypta meridiana*, *E. swaini*, *Percina maculata*, *P. nigrofasciata*, *P. shumardi*, *P. vigil*, and *P sp. cf. caprodes*.

171. _____ Lamar County, Ala. Millport N W Quad. T16S, R16W, Sec 12 NW. At CoRd 9 about 5 mi SW Vernon. UAIC '66; UMMZ '32.

17 Species: *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Erimyzon oblongus*, *Minytrema melanops*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *Etheostoma nigrum*, *E. proeliare*, and *E. swaini*.

172. _____ Vernon Quad. T15S, R15W, Sec 1 NW,NW. About 3 airmi NE Vernon. UAIC '66, '83.

17 Species: *Esox americanus*, *E. niger*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Minytrema melanops*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Labidesthes sicculus*, *Lepomis macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. stigmaeum*, and *E. swaini*.

173. Slickum Creek, trib to Yellow Creek. Lamar County, Ala. Vernon Quad. T14S, R15W, Sec 24 SE,NE. Mettee et al., 1986.

27 Species: *Lampetra aepyptera*, *Esox americanus*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Semotilus thoreauianus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Noturus funebris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. marginatus*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. proeliare*, *E. swaini*, *E. whipplei*, *Etheostoma sp.*, and *Percina nigrofasciata*.

174. Little Yellow Creek. Lamar County, Ala. Bluff Quad. T14S, R14W, Sec 10 NW,NE. Mettee et al., 1968.

35 Species: *Ichthyomyzon gagei*, *Lampetra aepyptera*, *Esox americanus*, *E. niger*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Semotilus thoreauianus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *M. poecilurum*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Etheostoma nigrum*, *E. parvipinne*, *E. proeliare*,

E. stigmaeum, *E. swaini*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*.

175. Yellow Creek. Lamar County, Ala. Vernon Quad. T14S, R14W, Sec 2. Mettee et al., 1986.

33 Species: *Lampetra aepyptera*, *Esox americanus*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lutyrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Semotilus thoreauianus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma erythrurum*, *M. poecilurum*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *L. marginatus*, *L. megalotis*, *L. punctatus*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*.

176. Hells Creek, trib of Yellow Creek. Lamar County, Ala. Belk Quad. T15S, R15W, Sec 23 SW,SW. About 0.25 mi above mouth Brown Mill Creek. Mettee et al., 1986.

36 Species: *Lampetra aepyptera*, *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysocephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Semotilus thoreauianus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Etheostoma nigrum*, *E. proeliare*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

177. _____ . T15S, R14W, Sec 24 SW,SW. Mettee et al., 1986.

36 Species: *Lampetra aepyptera*, *Esox americanus*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Semotilus thoreauianus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *M. poecilurum*, *Ameiurus melas*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. parvipinne*, *E. proeliare*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*.

178. _____ Fayette County, Ala. Belk Quad. T15S, R13W, Sec 17 SW,SW. At Hwy 18 about 1.5 mi NW Mt. Vernon. UAIC '66.

13 Species: *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. megalotis*, and *Etheostoma* sp.

179. Luxapallila River. Lowndes County, Miss. Steens Quad. T17S, R17W, Sec 28 NW. About 0.3 mi S Steens. CAS '68, '69; MMNS '81; MSU '75; UAIC '71, '83.

43 Species: *Ichthyomyzon gagei*, *Hiodon tergisus*, *Camptostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Aphredoderus sayanus*,

Fundulus olivaceus, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina lenticula*, *P. nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

180. _____ . T17S, R17W, Sec 26 NW. About 1.5 mi E Steens. UAIC '83.

21 Species: *Cyprinella venusta*, *Hybopsis winchelli*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Noturus gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, and *Aplodinotus grunniens*.

181. Swamp near Luxapallila River. Lowndes County, Miss. Steens Quad. T17S, R17W, Sec 26 S-central. Access off Miss Hwy 50 about 0.5 mi W Ala-Miss state line via road to gravel pit. UAIC '83.

6 Species: *Aphredoderus sayanus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *L. punctatus*, and *Etheostoma proeliare*.

182. Luxapallila River. Lamar County, Ala. Steens Quad. T17S, R17W, Sec 24. About 0.5 mi E Ala-Miss state line. UAIC '83. In 1922 the Luxapallila River was channelized from the Mississippi-Alabama state line to Winfield, Alabama. Additional channelization was completed from Steens, Mississippi to about one mile above Millport, Alabama in 1942 (Kelly, 1975). Since, the canal has filled with silt and debris and once again the river meanders from about Millport, Alabama to the Mississippi-Alabama state line, explaining why dots indicating Sites 183-187 are offset (Fig.1).

21 Species: *Amia calva*, *Cyprinella venusta*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Minytrema melanops*, *Moxostoma poecilurum*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis gulosus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. proeliare*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

183. _____ . Fernbank Quad. T17S, R16W, Sec 20 SW. River and adjacent braided streams N Luxapallila Canal. UAIC '83.

24 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Noturus gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis megalotis*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. vigil*.

184. _____ . T17S, R16W, Sec 21 SW. Swamp and braided streams between Luxapallila Canal and Steens-Fernbank Road. UAIC '83.

17 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Noturus gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis megalotis*, *L. punctatus*, *Etheostoma nigrum*, *E. proeliare*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

185. _____. T17S, R16W, Sec 28 NW. Meandering creek S Luxapallila Canal. UAIC '83.

6 Species: *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis gulosus*, *Lepomis megalotis*, and *Etheostoma proeliare*.

186. _____. T17S, R16W, Sec 23 NW. Between Luxapallila Canal and Steens-Fernbank Road. UAIC '83.

20 Species: *Lepisosteus* sp (sight record, species unknown), *Amia calva*, *Esox americanus*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Ictalurus punctatus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis gulosus*, *L. macrochirus*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, and *E. proeliare*.

187. _____. T17S, R16W, Sec 24 SW. Swamp between Luxapallila Canal and Hwy 96. UAIC '83.

16 Species: *Lepisosteus* sp (sight record, species unknown) *Esox americanus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Erimyzon oblongus*, *Ameiurus natalis*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, and *Etheostoma proeliare*.

188. _____. T17S, R15W, Sec 19 NE. Luxapallila Canal and adjacent stream, about 0.5 mi S Fernbank. UAIC '83.

39 Species: *Ichthyomyzon gagei*, *Cyprinella venusta*, *Cyprinus carpio*, *Campostoma oligolepis*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *N. baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, and *Aplodinotus grunniens*.

189. _____. Millport Quad. T17S, R15W, Sec 14 SW. At Hwy 17 about 1 mi N Millport. MSU '73, '74, '75 '76; UAIC '66, '83. *Supra* Kelly, 1975.

47 Species: *Ichthyomyzon gagei*, *Lampetra aepyptera*, *Esox niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. parvipinne*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, and *P. vigil*.

190. _____. Fayette County, Ala. Belk Quad. T16S, R13W, Sec 4 NE, SE. About 0.5 mi WNW Covin on Hwy 96. UAIC '71, '83.

34 Species: *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

191. _____. Marion County, Ala. Winfield Quad. T13S, R13W, Sec 12 E-central. On US 43 about 2 airmi NW Winfield. UMMZ '52; UAIC '71, '83.

26 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *Lepomis megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. sciera*.

192. Catherine Lake. Lowndes County, Miss. Columbus South Quad. T18S, R18W, Sec 28. An oxbow S Columbus. MMNS '83.

2 Species: *Noturus gyrinus* and *Percina sciera*.

193. Tombigbee River. Lowndes County, Miss. Columbus Quad. T18S, R18W/19W. Area of original big bend at Columbus. CAS '68, '69; MMNS '31, '79; USM '74, '78; UT '76. Inundated by Aliceville Pool and severed by navigation channel in 1979.

48 Species: *Scaphirhynchus* sp. cf. *platyrhynchus*, *Dorosoma cepedianum*, *Campostoma oligolepis*, *Cyprinella venusta*, *Ericymba buccata*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis edwarddraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Carpionodes velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus leptacanthus*, *N. munitus*, *Fundulus notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *Etheostoma gracile*, *E. histrio*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *Percina sciera*, *P. shumardi*, *P. vigil*, and *Stizostedion vitreum*.

194. _____. Lowndes County, Miss. Columbus North Quad. T19N, R17E, Sec 11. Area 3 to 5 mi above US 82 bridge and tailwater of Columbus Pool. CAS '68, '69; MMNS '79, '83, '84; MSU '79; NLU '87, '88; UMS '79; UAIC '72, '83. Includes the Plymouth Bluff area inundated by Aliceville Pool in 1979. The severed bendway area below a spillway from Columbus pool is now an experimental artificial riffle.

71 Species: *Lepisosteus oculatus*, *L. osseus*, *Amia calva*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Cyprinus carpio*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. baileyi*, *N. edwarddraneyi*, *N. stilbius*, *N. texanus*, *N.*

volucellus, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpionides cyprinus*, *C. velifer*, *Ictiobus bubalus*, *Moxostoma carinatum*, *M. erythrum*, *M. poecilurum*, *Ictalurus furcatus*, *I. punctatus*, *Noturus leptacanthus*, *Noturus munitus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Strongylura marina*, *Fundulus notatus*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Morone chrysops*, *Morone saxatilis* x *M. chrysops*, *Ambloplites ariommus*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Percina sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

SITES 195 THRU 222 ARE IN THE TIBBEE CREEK SYSTEM

195. Tibbee Creek. Clay-Lowndes counties, Miss. Waverly Quad. About 0.7 mi from mouth. CAS '68. Lower 10-12 rmi of Tibbee Creek inundated by Columbus Pool in 1981.

23 species: *Lepisosteus osseus*, *Anguilla rostrata*, *Dorosoma cepedianum*, *D. petenense*, *Cyprinella venusta*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Carpionides velifer*, *Ictiobus bubalus*, *Ictalurus furcatus*, *I. punctatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, and *Aplodinotus grunniens*.

196. Catalpa Creek. Lowndes County, Miss. Artesia 15" map. T19N, R16E, Sec 28. On US 82 at Mayhew. UAIC '65; USM '78.

17 species: *Cyprinella venusta*, *Hybopsis sp. cf. longirostris*, *Lythrurus bellus*, *Notropis stilbius*, *Pimephales notatus*, *Ictalurus punctatus*, *Noturus gyrinus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma chlorosomum*, *E. nigrum*, and *Percina sciera*.

197. _____ T18N, R16E, Sec 5 NE. Midway between Mayhew and Artesia. MMNS '48; UAIC '65.

8 species: *Hybopsis sp. cf. longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Fundulus notatus*, *Gambusia affinis*, *Etheostoma nigrum*, and *E. whipplei*.

198. Tributary of Sand Creek. Oktibbeha County, Miss. Artesia-West Point 15" map. T19N, R15E, Sec 22 Central. MSU '68.

3 species: *Erimyzon oblongus*, *Gambusia affinis*, and *Lepomis cyanellus*.

199 Sand Creek. Oktibbeha County, Miss. Starkville Quad. T19N, R15E, Sec 31 E-central. Just off US 82 E Mississippi State University. MSU '68, '69, '71, '76, '77, '86.

10 species: *Hybopsis sp. cf. longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Gambusia affinis*, *Micropterus punctulatus*, *Etheostoma whipplei*, *Percina maculata*, and *P. sciera*.

200. Catalpa Creek. Lowndes County, Miss. Artesia 15" map. T18N, R16E, Sec 18 NE, NE. On US 45W about 1 airmi NNE Artesia. MMNS '53; MSU '85; USNM '80.

15 species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Hybopsis sp. cf. longirostris*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, and *Etheostoma whipplei*.

201. _____ Oktibbeha County, Miss. Artesia 15" map. T18N, R15E, Sec 22 W-central. About 0.5 mi SW Sessums. INHS '82; MSU '84; UAIC '72.

13 species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis sp. cf. longirostris*, *Lythrurus bellus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, and *Etheostoma whipplei*.

202. Spring Creek. Clay County, Miss. West Point 15" map. T17N, R7E, Sec 9 SW, SW. About 3 mi E West Point on Hwy 50. MMNS '33; UAIC '72.

10 species: *Hybognathus hayi*, *Notemigonus crysoleucas*, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Erimyzon sucetta*, *Ictalurus punctatus*, *Gambusia affinis*, *Lepomis cyanellus*, and *L. humilis*.

203. Tibbee Creek. Clay County, Miss. West Point 15" map. T17S, R6E, Sec 34. About 3 mi S West Point on US 45W. MSU '73; UAIC '66.

20 species: *Cyprinella venusta*, *Hybognathus hayi*, *H. nuchalis*, *Notemigonus crysoleucas*, *Lythrurus bellus*, *Notropis stilbius*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus gyrinus*, *Gambusia affinis*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. whipplei*, and *Percina sciera*.

204. Trim Cane Creek. Oktibbeha County, Miss. Pheba 15" map. T19N, R14E, Sec 16 NW, NW. About 4 mi NNW Starkville. MSU '68, '69, '70, '71, '72; UAIC '72.

32 species: *Esox americanus*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis stilbius*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Ameiurus natalis*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *Pomoxis annularis*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. whipplei*, *E. zoniferum*, *Percina maculata*, and *P. sciera*.

205. Sun Creek, trib of Trim Cane Creek. Oktibbeha County, Miss. Pheba 15" map. T20N, R14E, Sec 31/32. About 3 mi W of confluence with Trim Cane Creek. MSU '74.

15 species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma whipplei*, and *E. zoniferum*.

206. _____ Clay County, Miss. Pheba 15" map. T20N, R13E, Sec 28/29. About 1 mi S Pheba and 0.33 mi N Clay-Oktibbeha county line. UAIC '72.

10 species: *Hybopsis sp. cf. longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Erimyzon oblongus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, and *Pomoxis nigromaculatus*.

207. Underwood-Woodruff Creek, trib of Line Creek. Clay County, Miss. Pheba 15" map. T16S, R4E, Sec 36 NW,SW. UAIC '72.
9 Species: *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Noturus gyrinus*, *Fundulus notatus*, *Lepomis cyanellus*, *L. megalotis*, and *Etheostoma nigrum*.
208. Johnson Creek, trib of Line Creek. Clay County, Miss. Pheba 15" map. T20N, R13E, Sec 4-Central. About 3 mi N Pheba. AUM '79; MMNS '79.
15 Species: *Esox americanus*, *Lythrus bellus*, *Pimephales notatus*, *Ameiurus natalis*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma nigrum*, and *E. whipplei*.
209. Line Creek. Clay County, Miss. Pheba 15" map. T16S, R4E, Sec 30 NW,NW. About 4.5 airmi SSE Montpelier and 5.0 airmi NNE Pheba. MMNS '48, '79, '82.
18 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Notemigonus crysoleucas*, *Erimyzon oblongus*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Noturus nocturnus*, *Fundulus notatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma whipplei*, and *Percina maculata*.
210. Chuquatonchee Creek. Clay County, Miss. West Point 15" map. T17S, R6E, Sec 7/18. About 3 mi W US 45W. MSU '68; UMS '56.
24 Species: *Esox americanus*, *Cyprinella venusta*, *Hybognathus hayi*, *Lythrus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Erimyzon oblongus*, *Ameiurus melas*, *Ictalurus punctatus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Labidesthes sicculus*, *Lepomis gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *Pomoxis annularis*, and *Etheostoma proeliare*.
211. Houlka Creek. Clay County, Miss. West Point 15" map. T15S, R5E, Sec 36. About 4 mi W of US 45W. UAIC '71.
14 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus gyrinus*, *Gambusia affinis*, *Lepomis megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma nigrum*, and *Percina sciera*.
212. _____. Van Vleet 15" map. T15S, R4E, Sec 11 S-central. On Hwy 47. UAIC '71.
14 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Notemigonus crysoleucas*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Noturus gyrinus*, *Gambusia affinis*, *Pomoxis nigromaculatus*, *Percina maculata*, and *P. sciera*.
213. _____. Chickasaw County, Miss. Van Vleet 15" map. T14S, R4E, Sec 11. On Natchez Trace Parkway about 3 airmi SE Houston. MMNS '80.
3 Species: *Semotilus atromaculatus*, *Lepomis cyanellus*, and *Etheostoma whipplei*.
214. _____. Chickasaw County, Miss. Houston West Quad. T13S, R3E, Sec 20 NW. On Hwy 15 about 4.5 mi N Hamilton. AUM '80.
1 Species: *Percina maculata*.
215. Chuquatonchee Creek. Clay County, Miss. West Point 15" map. T15S/T16S, R5E, Sec 36/1. About 0.5 mi W Clay-Monroe county line. UAIC '71.
13 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Ictalurus punctatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *Etheostoma whipplei*, and *Percina sciera*.
216. _____. Prairie Quad. T15S, R5E, Sec 1/12. About 3.5 mi W Prairie on CoRd 382. UAIC '72.
8 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Pimephales notatus*, *Ictalurus punctatus*, *Gambusia affinis*, *Lepomis cyanellus*, and *Etheostoma nigrum*.
217. _____. Chickasaw County, Miss. Van Vleet 15" map. T14S, R5E, Sec 22/27. On Hwy 8 just above mouth of Red Bud Creek. MMNS '82; UAIC '67.
14 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Minytrema melanops*, *Ameiurus natalis*, *Ictalurus punctatus*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. megalotis*, and *Etheostoma nigrum*.
218. Dicks Creek, trib of Chuquatonchee. Chickasaw County, Miss. Van Vleet 15" map. T13S, R4E, Sec 6. At Natchez Trace Parkway about 1 mi W Van Vleet. NLU '74.
9 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Fundulus notatus*, *Lepomis cyanellus*, *L. macrochirus*, and *Etheostoma whipplei*.
219. Chuquatonchee Creek. Chickasaw County, Miss. Troy Quad. T12S, R4E, Sec 28/33. On Hwy 32. MMNS '82; UMS '52.
11 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Pimephales notatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, and *Percina sciera*.
220. _____. T12S, R4E, Sec 21 NW,SW. At Natchez Trace Parkway. MMNS '82; UT '82.
11 Species: *Lythrus bellus*, *Semotilus atromaculatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Etheostoma proeliare*, *E. whipplei*, and *Percina sciera*.
221. Sharby Creek, trib of Chuquatonchee Creek. Chickasaw County, Miss. Troy Quad. T12S, R4E, Sec 16 SE. Near Natchez Trace Parkway. NLU '74.
11 Species: *Esox americanus*, *Lythrus bellus*, *Notemigonus crysoleucas*, *Semotilus atromaculatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. punctatus*, and *Micropterus salmoides*.

222. Godfather Creek. Chickasaw County, Miss. Troy Quad. T12S, R4E, Sec 7 SE,NW. About 3 mi NW of intersection of Chuquatonchee Creek and Natchez Trace Parkway. NLU '74.

9 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Gambusia affinis*, *Lepomis macrochirus*, *Micropterus salmoides*, *Etheostoma whipplei*, and *Percina sciera*.

223. Tombigbee River. Lowndes County, Miss. Columbus North Quad. T17S, R19W, Sec 13 NW,SW. At Hwy 50 and rmi 339. AUM '80; CAS '68, '69; MMNS '63, '71, '73; MSU '68 thru '79; TU '65, '66; UAIC '66; UF '63, '70, '71, '73; UMS '63; UNO '76; USNM '63. This famous collecting place was inundated by Columbus Pool in 1981. The original meandering river from this point to Aberdeen is crisscrossed by a navigational channel.

92 Species: *Lepisosteus oculatus*, *L. osseus*, *Anguilla rostrata*, *Alosa alabamiae*, *A. chrysochloris*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Cyprinus carpio*, *Ericymba buccata*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H.* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. baileyi*, *N. edwardraneyi*, *N. maculatus*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpionodes cyprinus*, *C. velifer*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ameiurus natalis*, *I. punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N. munitus*, *N. nocturnus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Strongylura marina*, *Fundulus notatus*, *F. notti*, *F. olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmatum*, *E. swaini*, *E. whipplei*, *E. zoniferum*, *Etheostoma* sp., *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P.* sp. cf. *caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

224. _____. Clay County, Miss. West Point 15" map. T17S, R8E, Sec 7 NW. At mouth of Town Creek (Hang Kettle Creek). CAS '68, '69; AUM '80; MMNS '80. A bendway inundated by Columbus Pool and severed by navigation channel in 1981.

29 Species: *Dorosoma cepedianum*, *Hiodon tergisus*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Macrhybopsis storeriana*, *Notropis edwardraneyi*, *N. stilbius*, *Pimephales vigilax*, *Carpionodes velifer*, *Moxostoma erythrurum*, *Noturus gyrinus*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Lepomis megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma histrio*, *E. rupestre*, *E. stigmatum*, *E. swaini*, *Percina sciera*, *P. shumardi*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*,

225. _____. Clay-Lowndes counties, Miss. Strong Quad. T16S, R8E, Sec 31. About 1.5 mi below mouth of Buttahatchee River. CAS '63. Inundated by Columbus Pool and severed by navigation channel in 1981.

9 Species: *Alosa chrysochloris*, *Dorosoma cepedianum*, *Cyprinella venusta*, *Notropis candidus*, *Carpionodes velifer*, *Ictiobus bubalus*, *Ictalurus punctatus*, *I. furcatus*, and *Pylodictis olivaris*.

226. Hang Kettle Creek, trib of Town Creek. Clay County, Miss. West Point 15" map. T16S, R7E, Sec 27. About 2 mi N confluence with Town Creek. UAIC '72.

10 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, and *Etheostoma nigrum*.

227. _____. Monroe County, Miss. West Point 15" map. T16S, R7E, Sec 7 SW,SW. About 3 mi E US 45W. UAIC '72.

14 Species: *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Etheostoma nigrum*, and *E. whipplei*.

228. _____. Aberdeen Quad. T15S, R7E, Sec 18 NW,NE. On Hwy 25 about 3.5 mi SW Aberdeen. MSU '71.

9 Species: *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Etheostoma chlorosomum*, and *E. whipplei*.

229. Tombigbee River. Lowndes-Monroe county line, Miss. Strong Quad. T16S, R19W, Sec 27/36. In area of mouth of Buttahatchee River and rmi 345. AUM '80; CAS '68, '69; MMNS '33, '79, '80, '83; MSU '77; UAIC '72; UMS '80. Inundated by Columbus Pool and severed by navigation channel in 1981.

49 Species: *Lepisosteus osseus*, *Anguilla rostrata*, *Dorosoma cepedianum*, *Hiodon tergisus*, *Esox americanus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpionodes velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Moxostoma carinatum*, *M. erythrurum*, *Ictalurus punctatus*, *Noturus leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmatum*, *Percina nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

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230. Buttahatchee River. Lowndes-Monroe county line, Miss. Hamilton Quad. T16S, R19W, Sec 13, 23/24. From confluence with Tombigbee River to about 1.5 mi upstream. AUM '80; CAS '69; MMNS '79, '80; MSU '71, '73; UAIC '72; UMS '79. The species listed were, for a large part, reported by Pierson et al. (1986) and deposited in AUM, MMNS, and UAIC. This site is now at the crossroads of the original Buttahatchee River and a navigation channel at rmi 345.

58 Species: *Lepisosteus osseus*, *Dorosoma cepedianum*, *D. petenense*, *Esox americanus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H.* sp. cf. *longirostris*, *Lythrurus bellus*, *Luxilus chrysocephalus*, *Macrhybopsis storeriana*, *Nocomis leptocephalus*, *Notropis atherinoides*, *Notropis edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpionodes velifer*, *Hypentelium etowanum*

Moxostoma carinatum, *M. erythrurum*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. leptacanthus*, *N. munitus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina lenticula*, *P. nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

231. _____. T16S, R18W, Sec 19 NE. About 0.5 mi W Hwy 373 (N gate Columbus AFB). MMNS '80; MSU '68, '74; UMS '68. *Supra* Pierson et al., 1986.

57 Species: *Polyodon spathula*, *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Cyprinus carpio*, *Extrarius sp. cf. aestivalis*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptoccephalus*, *Notropis edwarddraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpiodes velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Moxostoma erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, *P. sciera*, *P. vigil*, *P. sp. cf. caprodes*, and *Aplodinotus grunniens*.

232. _____. T16S, R18W, Sec 16 SW. At US 45. AUM '81; CAS '68; MMNS '83; NLU '87, '88; UAIC '63; UMS '81. *Supra* Pierson et al., 1986.

66 Species: *Lepisosteus oculatus*, *L. osseus*, *Anguilla rostrata*, *Dorosoma cepedianum*, *Hiodon tergisus*, *Esox americanus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Cyprinus carpio*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpiodes velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *Noturus munitus*, *N. nocturnus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina maculata*, *P. nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

233. Unnamed trib of Buttahatchee River. Lowndes County, Miss. Hamilton Quad. T16S, R17W, Sec 18. About 2 airmi W Caledonia. AUM '68; MMNS '79, MSU '79, UAIC '79.

24 Species: *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*,

Ameiurus natalis, *Noturus funebris*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. gulosus*, *Etheostoma nigrum*, *E. swaini*, *E. whipplei*, and *Percina nigrofasciata*.

234. Buttahatchee River. Lowndes County, Miss. Hamilton Quad. T16S, R17W, Sec 5 NW,SW. About 1.5 mi NW Caledonia. AUM '80; MMNS '53; UMS '80. *Supra* Pierson et al., 1986.

30 Species: *Esox niger*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Pimephales vigilax*, *Moxostoma erythrurum*, *Noturus leptacanthus*, *N. munitus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Lepomis megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *Percina sciera*, and *P. vigil*.

235. _____. T15S, R17W, Sec 28/32. CAS '68, '69; *Supra* Pierson, et al., 1986.

30 Species: *Esox niger*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Pimephales vigilax*, *Noturus leptacanthus*, *N. munitus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Lepomis megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina nigrofasciata*, *P. sciera*, and *P. vigil*, and *Stizostedion vitreum*.

236. Bluff Creek. Lowndes County, Miss. Caledonia Quad. T15S, R17W, Sec 33 NE,NE. AUM '68, '80.

16 Species: *Campostoma oligolepis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Etheostoma nigrum*, *E. rupestre*, and *E. swaini*.

237. Buttahatchee River. Lowndes-Monroe county line, Miss. Caledonia Quad. T16S, R17W, Sec 21 SE. About 4.3 airmi N Caledonia at road crossing just above Honnoll Mill Creek. AUM '68. *Supra* Pierson et al., 1986.

32 Species: *Dorosoma cepedianum*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchale*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Minytrema melanops*, *Noturus gyrinus*, *N. nocturnus*, *Pylodictis olivaris*, *Elassoma zonatum*, *Centrarchus macropterus*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. swaini*, *E. whipplei*, *Percina maculata*, *P. nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, and *P. sp. cf. caprodes*.

238. Rye Creek. Monroe County, Miss. Amory SE Quad. T15S, R17W, Sec 10/11 Central. AUM '68; MMNS '79; UAIC '76, '79. *Supra* Pierson et al., 1986.

34 Species: *Ichthyomyzon gagei*, *Esox americanus*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ameiurus melas*, *A. natalis*, *Noturus funebris*, *N. leptacanthus*,

N. nocturnus, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. rupestre*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., *Percina maculata*, and *P. nigrofasciata*.

239. Buttahatchee River. Monroe County, Miss. Amory S E Quad. T15S, R17W, Sec 3 NW,SW. UAIC '72. *Supra* Pierson, 1986.

41 Species: *Dorosoma cepedianum*, *Hiodon tergisus*, *Esox niger*, *Cyprinella venusta*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis stilbius*, *N. texanus*, *N. volucellus*, *Pimephales vigilax*, *Carpionodes velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Minytrema melanops*, *Ictalurus punctatus*, *Noturus nocturnus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. zoniferum*, *Percina lenticula*, *P. maculata*, *P. sciera*, *P. vigil*, *P. sp. cf. caprodes*, and *Aplodinotus grunniens*.

240. Sams Branch. Monroe County, Miss. Amory S E Quad. T14S, R17W, Sec 14 SW,NE. MMNS '79.

1 Species: *Etheostoma parvipinne*.

241. Buttahatchee River. Monroe County, Miss. Amory S E Quad. T14S, R17W, Sec 2, 7/11. Below confluence with Sipsey Creek. AUM '80; MSU '70; UAIC '71.

58 Species: *Lepisosteus osseus*, *Anguilla rostrata*, *Dorosoma cepedianum*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Carpionodes velifer*, *Erimyzon tenuis*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *N. munitus*, *N. nocturnus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *Pomoxis annularis*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, *P. sciera*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

242. Sipsey Creek. Monroe County, Miss. Greenwood Springs Quad. T14S, R17W, Sec 2 NE,NW. On US 278 about 0.9 mi E Greenwood Springs near confluence with Buttahatchee River. AUM '80; CAS '68, '69; UAIC '80; UMS '80. *Supra* Pierson et al., 1986.

31 Species: *Esox americanus*, *E. niger*, *Cyprinella callistia*, *Minytrema melanops*, *Moxostoma erythrurum*, *M. poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. nocturnus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *Ammocrypta meridiana*, *E. histrio*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina lenticula*, *P. nigrofasciata*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

243. _____. T13S, R17W, Sec 24 SE. MSU '71. *Supra* Pierson et al., 1986.

31 Species: *Esox niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, *P. vigil*, *P. sp. cf. caprodes*, and *Stizostedion vitreum*.

244. _____. T13S, R16W, Sec 6 SW,NE. About 0.8 mi SE Splunge. AUM '80; MMNS '80; UAIC '80. *Supra* Pierson et al., 1986.

41 Species: *Esox americanus*, *E. niger*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *N. munitus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina maculata*, *P. nigrofasciata*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, and *Stizostedion vitreum*.

245. Splunge Creek. Monroe County, Miss. Greenwood Quad. T12S, R116W, Sec 30 SW,SW. About 2 mi NNE Splunge. CAS '68; *Supra* Pierson et al., 1986.

14 Species: *Esox americanus*, *E. niger*, *Lythrurus bellus*, *Notropis texanus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. punctatus*, *Micropterus salmoides*, and *Etheostoma swaini*.

246. Ashton Branch, trib of Sipsey Creek. Marion County, Ala. Detroit Ala-Miss Quad. T11S, R15W, Sec 32/33. About 3.5 mi NE Detroit on Hwy 17, and 1 mi from confluence with Sipsey Creek. UAIC '71.

20 Species: *Esox niger*, *Campostoma oligolepis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *Micropterus salmoides*, *Etheostoma parvipinne*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

247. Factory Creek, trib of Sipsey Creek. Marion County, Ala. Detroit Quad. T11S, R15W, Sec 29 NW. On Hwy 19 about 5 mi NNE Detroit. UAIC '71.

20 Species: *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Noturus gyrinus*, *N. leptacanthus*, *N. nocturnus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis gulosus*, *L. macrochirus*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*.

248. Barnesville Creek, trib of Sipsey Creek. Marion County, Ala. Weston Quad. T11S, R15W, Sec 2 N-central. UAIC '71.

14 Species: *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Hypentelium etowanum*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. megalotis*,

Etheostoma nigrum, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

249. Broadtree Creek, trib of Sipse Creek. Marion County, Ala. Weston Quad. T10S, R15W, Sec 27 S-central. About 5 mi W Hamilton. UAIC '71.

15 Species: *Campostoma oligolepis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Fundulus olivaceus*, *Lepomis megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, and *Etheostoma* sp.

250. Buttahatchee River. Monroe County, Miss. Greenwood Quad. T14S, R17W, Sec 2 NE,NE. Above confluence with Sipse Creek on US 278. UAIC '71, '80; UMS '52. *Supra* Pierson et al., 1986.

61 Species: *Lepisosteus osseus*, *Anguilla rostrata*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptacephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Carpododes velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. grinus*, *N. leptacanthus*, *N. munitus*, *N. nocturnus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Pomoxis annularis*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, *P. sciera*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

251. _____ Lamar County, Ala. Sulligent Quad. T13S, R16W, Sec 33 NE. About 1 mi NE Gattman. UAIC '72.

21 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Lepomis megalotis*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *Percina nigrofasciata*, and *P. sciera*.

252. _____ T13S, R15W, Sec 19 NE. On Hwy 17 about 1.5 mi NW Sulligent. UAIC '66.

16 Species: *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis volucellus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Hypentelium etowanum*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis punctatus*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, and *Percina nigrofasciata*.

253. Pine Springs Creek. Lamar County, Ala. Sulligent Quad. T13S, R15W, Sec 18/19. About 2 mi NNW Sulligent. UAIC '71.

21 Species: *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *N. volucellus*, *Semotilus atromaculatus*, *Erimyzon succetta*, *Hypentelium etowanum*, *Ameiurus natalis*, *Gambusia affinis*, *Elassoma zonatum*, *Lepomis macrochirus*, *L. marginatus*, *L. megalotis*, *Etheostoma nigrum*, *E. stigmaeum*, and *Percina sciera*.

254. Beaver Creek. Lamar County, Ala. Beaverton Quad. T13S, R15W, Sec 23 NW. On a CoRd about 0.33 mi N US 278 at Crews. UAIC '66.

12 Species: *Cyprinella venusta*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Pimephales vigilax*, *Moxostoma poecilurum*, *Etheostoma rupestre*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. vigil*.

255. _____ T13S, R14W, Sec 17 NE,NE. About 0.6 mi NW Beaverton. UAIC '71.

19 Species: *Campostoma oligolepis*, *Cyprinella callistia*, *N. venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Minytrema melanops*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. gulosus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma rupestre*, *E. stigmaeum*, and *Etheostoma* sp.

256. Dugan Creek. Marion County, Ala. Hamilton S W Quad. T11S, R14W, Sec 26 SE,SE. On US 43 about 4.5 mi SE Hamilton. UAIC '66.

15 Species: *Ichthyomyzon gagei*, *Esox americanus*, *Campostoma oligolepis*, *Nocomis leptocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Noturus leptacanthus*, *Fundulus olivaceus*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

257. Buttahatchee River. Marion County, Ala. Hamilton S W Quad. T11S, R14W, Sec 15 NE. About 2.5 mi S Hamilton on US 43. UAIC '71.

19 Species: *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Hybopsis sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis stilbius*, *N. volucellus*, *Pimephales notatus*, *Ictalurus punctatus*, *Fundulus olivaceus*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma stigmaeum*, and *Percina nigrofasciata*.

258. Williams Creek. Marion County, Ala. Hamilton Quad. T10S, R14W, Sec 35 SW,NE. On US 43 about 1 mi NE central Hamilton. UAIC '71; UMMZ '58.

28 Species: *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *N. volucellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *M. poecilurum*, *Ameiurus melas*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Lepomis megalotis*, *Micropterus punctulatus*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, and *Percina sciera*.

259. Clifty Creek. Marion County, Ala. Hamilton Quad. T10S, R13W, Sec 15 SE,NW. About 6.5 airmi NE Hamilton. UAIC '71.

19 Species: *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Luxilus chrysocephalus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Lepomis megalotis*, *Etheostoma nigrum*, *E. rupestre*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. sciera*.

260. North Fork Creek, trib of Clifty Creek. Marion County, Ala. Hamilton Quad. T9S, R13W, Sec 34 NW,NW. On US 43 about 10 mi NE Hamilton. TU '58.

10 Species: *Cyprinella callistia*, *C. venusta*, *Luxilus chrysocephalus*, *Notropis baileyi*, *Hypentelium etowanum*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Etheostoma rupestre*, *E. stigmaeum*, and *Percina nigrofasciata*.

261. Camp Creek. Marion County, Ala. Hamilton N E Quad. T10S, R13W, Sec 35 NW,SE. Just off US 278 near confluence with Buttahatchee River. UAIC '71.

17 Species: *Campostoma oligolepis*, *Cyprinella callistia*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Notropis baileyi*, *Pimephales notatus*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Ictalurus punctatus*, *Micropterus punctulatus*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Percina nigrofasciata*, and *P. sciera*.

262. Buttahatchee River. Marion County, Ala. Hamilton N E Quad. T11S, R12W, Sec 5 NE. About 10 mi E Hamilton on US 278. UAIC '71.

20 Species: *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis stilbius*, *N. volucellus*, *Pimephales notatus*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

263. Barn Creek. Marion County, Ala. Hamilton N E Quad. T11S, R12W, Sec 4 NW,NE. On US 278. UAIC '66.

15 Species: *Campostoma oligolepis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Lepomis cyanellus*, *L. megalotis*, *L. microlophus*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, and *Percina nigrofasciata*.

264. _____ T10S, R12W, Sec 22 NW. UAIC '71.

18 Species: *Campostoma oligolepis*, *Cyprinella callistia*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

265. West Branch. Marion County, Ala. Haleyville West Quad. T11S, R12W, Sec 1 NW. On US 278 about 0.4 mi W jct Hwy 129. AUM '71; TU '66.

20 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *Etheostoma rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

266. Tombigbee River. Monroe County, Miss. Hamilton Quad. T16S, R19W, Sec 8. Near mouth of McKinley Creek. UAIC '72. This site, on a hairpin bendway, was inundated by Columbus Pool and severed by a navigation channel in 1981.

22 Species: *Lepisosteus osseus*, *Dorosoma cepedianum*, *D. petenense*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis winchelli*, *H.* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis edwardraneyi*, *N. stilbius*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Gambusia affinis*, *Lepomis megalotis*,

Pomoxis annularis, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *E. nigrum*, *E. whipplei*, and *Percina sciera*.

267. McKinley Creek. Monroe County, Miss. Hamilton Quad. T16S, R18W, Sec 32 W-central. On US 45. MMNS '79.

26 Species: *Hybognathus nuchalis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *Moxostoma poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Elassoma zonatum*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Etheostoma nigrum*, *Etheostoma* sp., and *Percina vigil*.

268. Tombigbee River. Monroe County, Miss. Aberdeen Quad. T15S, R7E, Sec 25 NW. About 5 mi SE Aberdeen. CAS '68, '69; UAIC '72. On bendway inundated by Columbus Pool and severed by navigation channel in 1981.

17 Species: *Lepisosteus osseus*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Notropis atherinoides*, *N. edwardraneyi*, *N. texanus*, *Pimephales notatus*, *Carpododes velifer*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis megalotis*, *Micropterus salmoides*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma nigrum*, *Percina sciera*, and *Stizostedion vitreum*.

269. James Creek. Monroe County, Miss. Aberdeen Quad. T14S, R7E, Sec 33 SW,SE. On Hwy 25 at Aberdeen. MSU '71; UAIC '67.

10 Species: *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, and *Etheostoma chlorosomum*.

270. Tombigbee River. Monroe County, Miss. Amory S W Quad. T15S, R19W, Sec 1 W. SE Aberdeen between James and Nichols creeks. AUM '80; CAS '68, '69; MMNS '80; UMS '80. On bendway inundated by Columbus Pool and severed by navigation channel in 1981.

14 Species: *Dorosoma petenense*, *Extrarius* sp. cf. *aestivalis*, *Hybopsis winchelli*, *Notropis stilbius*, *Carpododes velifer*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma rupestre*, *Percina sciera*, *P. shumardi*, *P. vigil*, *P.* sp. cf. *caprodes*, and *Stizostedion vitreum*.

271. Butler Creek. Monroe County, Miss. Amory S W Quad. T14S, R19W, Sec 25 NE,SW. On US 45 about 0.1 mi SE jct of Hwy 8. UAIC '71, '72.

31 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Luxilus chrysocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Moxostoma poecilurum*, *Ameiurus melas*, *Ictalurus punctatus*, *Noturus funebris*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

272. Nichols Creek. Monroe County, Miss. Amory S W Quad. T14S, R19W, Sec 25 SW,SW. At US 45. AUM '79; MMNS '79; MSU '71; UAIC '68; UMS '79.

28 Species: *Esox americanus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus*

chrysocephalus, *Lythrurus bellus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Moxostoma erythrurum*, *M. poecilurum*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. zoniferum*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, and *P. vigil*.

273. Stonewall Creek, trib of Nichols Creek. Monroe County, Miss. Amory S W Quad. T14S, R18W, Sec 17/18. UAIC '72.

18 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis megalotis*, *Etheostoma nigrum*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

274. Nichols Creek. Monroe County, Miss. Amory S W Quad. T14S, R18W, Sec 8 S-central. About 1 mi SSW Athens. UAIC '72.

20 Species: *Lampetra aepyptera*, *Campostoma oligolepis*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Hyphantelium etowanum*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. megalotis*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

275. _____ Greenwood Quad. T14S, R17W, Sec 6 N-central. MMNS '79.

14 Species: *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *Pimephales notatus*, *Erimyzon oblongus*, *Moxostoma poecilurum*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Lepomis megalotis*, *Etheostoma nigrum*, *E. swaini*, and *Percina nigrofasciata*.

276. Tombigbee River. Monroe County, Miss. Aberdeen Quad. T14S, R7E, Sec 27/36. ESE Aberdeen on US 45. AUM '80; CAS '68, '69; MMNS '80. Just below present Aberdeen Lock and Dam at rmi 356.5; channelized in 1981.

26 Species: *Lepisosteus osseus*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *Notropis stilbius*, *Pimephales vigilax*, *Carpiodes velifer*, *Moxostoma erythrurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus gyrinus*, *N. munitus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta asprella*, *Etheostoma rupestre*, *E. swaini*, *E. whipplei*, *Percina sciera*, *P. shumardi*, *P. vigil*, and *Stizostedion vitreum*.

277. Wolf Creek, trib of Mattubby Creek. Monroe County, Miss. Aberdeen Quad. T14S, R7E, Sec 16 NW,NE. About 3 airmi NNW Aberdeen. MSU '71.

17 Species: *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Fundulus notatus*, *Lepomis cyanellus*, *Lepomis macrochirus*, *L. megalotis*, *Etheostoma nigrum*, *E. parvipinne*, and *Percina maculata*.

278. _____ Wren Quad. T13S, R7E, Sec 6/7 Central. About 0.5 mi E New Wren. MMNS '80.

13 Species: *Hybognathus nuchalis*, *Lythrurus bellus*, *Notemigonus*

crysoleucas, *Pimephales notatus*, *Semotilus atromaculatus*, *Fundulus notatus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. whipplei*, and *E. zoniferum*.

279. Mattubby Creek. Monroe County, Miss. Aberdeen Quad. T14S, R7E, Sec 7/8 south. On US 45 about 4.5 mi NW Aberdeen. MSU '71; UAIC '63, '71; UF '67.

25 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis texanus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus gyrinus*, *Aphredoderus sayanus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma chlorosomum*, *E. nigrum*, *E. whipplei*, and *E. zoniferum*.

280. Cedar Creek. Monroe County, Miss. Aberdeen Quad. T14S, R6E, Sec 13 SE,NE. About 4.5 mi NW Aberdeen. MMNS '48; MSU '71.

15 Species: *Hybognathus nuchalis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon sucetta*, *Fundulus notatus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Etheostoma chlorosomum*, *E. nigrum*, and *E. swaini*.

281. Mattubby Creek. Chickasaw County, Miss. Van Vleet 15" map. T13S, R5E, Sec 2/3. On US 45W 1 mi S Okolona. UAIC '66.

13 Species: *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Pomoxis annularis*, *Etheostoma proeliare*, and *E. whipplei*.

282. Tombigbee River. Monroe County, Miss. Aberdeen Quad. T14S, R7E, Sec 14 N-central. About 1 mi below mouth of Halfway Creek, and 2 mi NE Aberdeen. AUM '79; UAIC '72. Inundated by Aberdeen Pool in 1984.

23 Species: *Anguilla rostrata*, *Dorosoma cepedianum*, *D. petenense*, *Cyprinella venusta*, *Hybognathus hayi*, *Hybopsis* sp. cf. *longirostris*, *Notemigonus crysoleucas*, *Notropis edwarddraneyi*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Carpiodes velifer*, *Ictiobus bubalus*, *Noturus leptacanthus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma nigrum*, and *E. swaini*.

283. Halfway Creek. Monroe County, Miss. Wren Quad. T13S, R19W, Sec 34 SE. AUM '79; MMNS '79; UAIC '79.

18 Species: *Esox americanus*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis texanus*, *Aphredoderus sayanus*, *Fundulus notti*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. megalotis*, *L. punctatus*, *Etheostoma chlorosomum*, *E. proeliare*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, and *Etheostoma* sp.

284. Tombigbee River. Monroe County. Wren Quad. T13S, R7E, Sec 23. Near mouth of Weaver Creek. UAIC '72. In bendway inundated by Aberdeen Pool and severed by navigation channel in 1984. At about this point the "canal section" of the TTW begins; that is, the waterway more or less abandons the river.

34 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf.*

longirostris, *Macrhybopsis storeriana*, *Notropis atherinoides*, *N. edwarddraneyi*, *N. stilbius*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Carpionotus velifer*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma erythrurum*, *M. poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Etheostoma nigrum*, *E. rupestre*, *Percina sciera*, *P. shumardi*, and *P. vigil*.

285. Weaver Creek. Monroe County, Miss. Amory Quad. T13S, R19W, Sec 12 S-central. On Hwy 25 about 2 mi S Amory. CAS '68, '69; UAIC '71.

20 Species: *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis texanus*, *Opsopoeodus emiliae*, *Minytrema melanops*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. proeliare*, *E. stigmaceum*, *E. swaini*, *Etheostoma* sp., *Percina maculata*, and *Stizostedion vitreum*.

286. _____. T13S, R18W, Sec 9 SW, NE. On US 278. UAIC '79.

3 Species: *Minytrema melanops*, *Etheostoma* sp., and *Percina nigrofasciata*.

287. Tombigbee River. Monroe County, Miss. Wren Quad. T13S, R7E, Sec 3 NW, NE. About 4 mi W Amory on US 278 near mouth Town Creek. AUM '80; CAS '68, '69; MMNS '80; TU '66; UAIC '66, '71, '72; UMS '52, '56. Inundated by Aberdeen Pool in 1984.

48 Species: *Dorosoma cepedianum*, *D. petenense*, *Hiodon tergisus*, *Camptostoma oligolepis*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis atherinoides*, *N. edwarddraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpionotus velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Ictalurus punctatus*, *Noturus munitus*, *Pyloodictis olivaris*, *Strongylura marina*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma proeliare*, *E. rupestre*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

SITES 288 THRU 302 ARE IN THE TOWN CREEK SYSTEM

288. Town Creek. Monroe County, Miss. Wren Quad. T12S, R7E, Sec 34 SE. Near confluence with Tombigbee River. MMNS '80; UAIC '72.

29 Species: *Dorosoma cepedianum*, *D. petenense*, *Camptostoma oligolepis*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Notropis stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpionotus velifer*, *Ictalurus punctatus*, *Noturus leptacanthus*, *N. munitus*, *Strongylura marina*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Ammocrypta beani*, *A. meridiana*, *Percina nigrofasciata*, *P. sciera*, *P. shumardi*, and *P. vigil*.

289. _____. Monroe County, Miss. Shannon Quad. T12S, R6E, Sec 12 NW, NW. About 2 mi S Nettleton on US 45. UAIC '63; UMS '56.

14 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf.

longirostris, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, and *Micropterus salmoides*.

290. Tallabinnela Creek. Pontotoc County, Miss. Troy S E Quad. T11S, R4E, Sec 26 NW, NW. About 1 mi NE jct Hwy 41 and Natchez Trace Parkway. UAIC '71.

6 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Semotilus atromaculatus*, and *Etheostoma whipplei*.

291. Chiwapa Creek. Lee County, Miss. Bissell Quad. T10S, R5E, Sec 31 SE. On Natchez Trace Parkway. NLU '74; UAIC '71.

16 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Carpionotus velifer*, *Erimyzon oblongus*, *Ictalurus punctatus*, *Noturus funebris*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *Micropterus salmoides*, *Pomoxis nigromaculatus*, and *Percina nigrofasciata*.

292. _____. Pontotoc County, Miss. Troy N W Quad. T10S, R3E, Sec 26 SW. MMNS '47.

2 Species: *Cyprinella venusta* and *Lepomis macrochirus*.

293. _____. T11S, R3E, Sec 4 NW. UF '64.

9 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Lepomis cyanellus*, *L. macrochirus*, *L. microlophus*, and *Micropterus punctulatus*.

294. Mubby Creek. Pontotoc County, Miss. Bissell Quad. T10S, R4E, Sec 4/10 west. On Hwy 6. MMNS '47.

3 Species: *Cyprinella venusta*, *Pimephales vigilax*, and *Micropterus punctulatus*.

295. Coonewah Creek. Lee County, Miss. Bissell Quad. T10S, R5E, Sec 9 NE, SE. On Natchez Trace Parkway. NLU '74; UAIC '71; UMS '78.

14 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, and *Etheostoma chlorosomum*.

296. Town Creek. Lee County, Miss. Verona Quad. T10S, R6E, Sec 17. About 1.5 mi W Plantersville. CAS '68.

8 Species: *Dorosoma cepedianum*, *Carassius auratus*, *Ameiurus natalis*, *Ictalurus punctatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, and *Micropterus salmoides*.

297. Yonaba Creek. Lee County. Tupelo Quad. T9S, R5E, Sec 13 NE, NE. About 2 mi N Tupelo on Natchez Trace Parkway. MMNS '47; UAIC '71.

18 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis stilbius*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Ictalurus punctatus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Etheostoma proeliare*, and *E. whipplei*.

298. Brown Creek, trib of Yonaba Creek. Union County, Miss. Sherman 15" map. T7S, R4E, Sec 35 NW. About 2.5 mi NE Blue Springs on Hwy 9. UAIC '72.

5 Species: *Luxilus chrysocephalus*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, and *Semotilus atromaculatus*.

299. Bridge Creek, trib of Yonaba Creek. Union County, Miss. Elliston Quad. T7S, R5E, Sec 30 NE,NW. On CoRd 380. UAIC '72.; UMS '56.

11 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Etheostoma nigrum*, and *E. whipplei*.

300. Camp Creek, trib of Yonaba Creek. Lee County, Miss. Sherman 15" map. T7S, R5E, Sec 21 SW,SW. About 1.5 mi SW Corrona. UAIC '72.

11 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Pimephales notatus*, *Semotilus atromaculatus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *Etheostoma nigrum*, and *E. whipplei*.

301. Mud Creek. Lee County, Miss. Tupelo Quad. T8S, R6E, Sec 31 NE. On US 45. UAIC '71.

15 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Etheostoma proeliare*, *E. whipplei*, *Etheostoma* sp., and *Percina maculata*.

302. Tishomingo Creek. Lee County, Miss. Guntown Quad. T7S, R5E, Sec 23/26. About 5 mi W Guntown on CoRd 348. UAIC '72.

15 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis stilbius*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ameiurus natalis*, *Noturus gyrinus*, *Fundulus notatus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. megalotis*, *Etheostoma nigrum*, and *E. whipplei*.

303. Tombigbee River. Monroe County, Miss. Nettleton Quad. T12S, R7E, Sec 25 SE,NE. On Hwy 6 about 2 mi NW Amory. AUM '75; CAS '68, '69; UAIC '72; UMS '56. From this point to Bay Springs Lock and Dam, the Tombigbee River meanders on the west side of a perched canal separated from the river by a continuous levee.

35 Species: *Lepisosteus osseus*, *Dorosoma cepedianum*, *D. petenense*, *Cyprinella venusta*, *Ericymba buccata*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *Luxilus chrysocephalus*, *Notropis atherinoides*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpododes velifer*, *Ictalurus punctatus*, *Noturus funebris*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *Etheostoma histrio*, *E. nigrum*, *E. swaini*, *P. lenticula*, *P. sciera*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

304. _____ Smithville Quad. T12S, R8E, Sec 4 SE,SE. About 0.2 mi above confluence of Boguefala Creek. CAS '68, '69; MMNS '80; MSU '73; UAIC '72.

44 Species: *Dorosoma cepedianum*, *Campostoma oligolepis*,

Cyprinella callistia, *C. venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis edwardraneyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpododes velifer*, *Cycleptus elongatus*, *Hypentelium etowanum*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *N. munitius*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina nigrofasciata*, *P. sciera*, *P. vigil*, and *Stizostedion vitreum*.

305. Jericho Creek. Monroe County, Miss. Smithville Quad. T11S, R18W, Sec 36 W-central. About 1.5 airmi WNW Smithville. MMNS '80; UAIC '71. Inundated by Lock "B" Pool.

21 Species: *Cyprinella venusta*, *Hybognathus hayi*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Elassoma zonatum*, *Centrarchus macropterus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, and *Etheostoma chlorosomum*.

306. Tombigbee River. Itawamba County, Miss. Smithville Quad. T11S, R8E, Sec 25/26. Near confluence with Bull Mountain Creek, 2.6 mi W Smithville. AUM '80, '81; CAS '68, '69; MMNS '79, '80; MSU '74; UAIC '72.

46 Species: *Lepisosteus osseus*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *Lythrurus bellus*, *Notropis stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Cycleptus elongatus*, *Hypentelium etowanum*, *Moxostoma carinatum*, *M. poecilurum*, *Ictalurus punctatus*, *Noturus leptacanthus*, *N. munitius*, *Pylodictis olivaris*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

SITES 307 THRU 321 ARE IN THE BULL MOUNTAIN CREEK SYSTEM

307. Bull Mountain Creek. Monroe County, Miss. Smithville Quad. T11S, R8E, Sec 25. From mouth of Bull Mountain Creek to upstream 1 mile. AUM '80; MMNS '80; UAIC '81. Pierson and Schultz (1984) made many collections in Bull Mountain Creek in Mississippi between 1967 and 1981. The specimens are deposited in AUM, MMNS, and UAIC. Pool "B" levee is atop this site.

65 Species: *Lepisosteus osseus*, *Amia calva*, *Anguilla rostrata*, *Dorosoma cepedianum*, *Hiodon tergisus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Cyprinus carpio*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpododes velifer*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Mintytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*,

Ameiurus natalis, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *A. meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

308. _____ Smithville Quad. T11S, R9E, Sec 30. AUM '80; CAS '68, '69. *Supra* Pierson and Schultz 1984. Inundated by Pool "B".

59 species: *Lepisosteus osseus*, *Anguilla rostrata*, *Dorosoma cepedianum*, *Hiidon tergus*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Cyprinus carpio*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. beani*, *Etheostoma histrio*, *E. nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina lenticula*, *P. nigrofasciata*, *P. sciera*, *P. shumardi*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

309. Mill Creek. Monroe County, Miss. Smithville Quad. T11/12S, R9E, Sec 32/5. On Hwy 23 just E Smithville. UMS '52.

14 species: *Esox americanus*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Semotilus atromaculatus*, *Minytrema melanops*, *Moxostoma poecilurum*, *Noturus nocturnus*, *Fundulus olivaceus*, *Lepomis megalotis*, and *Etheostoma nigrum*.

310. Bull Mountain Creek. Itawamba County, Miss. Smithville Quad. T11S, R9E, Sec 30 SW, SE. On Hwy 25. AUM '80, '81; CAS '68; MMNS '80, '81; MSU '68; UAIC '80; UMS '80. *Supra* Pierson and Schultz, 1984.

69 species: *Lampetra aepyptera*, *Anguilla rostrata*, *Alosa chrysochloris*, *Dorosoma cepedianum*, *Esox niger*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Cyprinus carpio*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *N. volucellus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Carpiodes velifer*, *Hypentelium etowanum*, *Ictiobus bubalus*, *Minytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *L. punctatus*, *Micropterus dolomieu*, *M. punctulatus*, *M. salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta asprella*, *A. meridiana*, *Etheostoma histrio*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Percina lenticula*, *P. maculata*, *P. nigrofasciata*, *P. sciera*, *P. vigil*, *P. sp. cf. caprodes*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

311. Jims Creek. Itawamba County, Miss. Tremont Quad. T10S, R10E, Sec 28 SW, SW. MMNS '80; UAIC '81; USM '85;

25 species: *Esox americanus*, *Campostoma oligolepis*, *Hybognathus nuchalis*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Noturus funebris*, *N. leptacanthus*, *N. nocturnus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. parvipinne*, *E. swaini*, *Etheostoma* sp., *Percina maculata*, and *P. nigrofasciata*.

312. Bull Mountain Creek. Itawamba County, Miss. Tremont Quad. T10S, R9E, Sec 25/36. *Supra* Pierson and Schultz, 1984.

41 species: *Lepisosteus osseus*, *Amia calva*, *Anguilla rostrata*, *Dorosoma cepedianum*, *Cyprinella venusta*, *Campostoma oligolepis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. texanus*, *N. volucellus*, *Cycleptus elongatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma carinatum*, *M. erythrurum*, *M. poecilurum*, *Ameiurus natalis*, *Ictalurus punctatus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, *Stizostedion vitreum*, and *Aplodinotus grunniens*.

313. Gum Creek. Itawamba County, Miss. Tremont Quad. T10S, R10E, Sec 6 SW, NE. On US 78 about 1.75 mi WNW Tremont. UAIC '66. *Supra* Pierson and Schultz, 1984.

10 species: *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Hypentelium etowanum*, *Fundulus olivaceus*, and *Lepomis macrochirus*.

314. Chubby Creek, trib of Gum Creek. Itawamba County, Miss. Red Bay Quad. T8S, R10E, Sec 4 SE. UAIC '72.

18 species: *Esox americanus*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Semotilus atromaculatus*, *Moxostoma erythrurum*, *Fundulus olivaceus*, *Lepomis megalotis*, *Micropterus salmoides*, *Etheostoma nigrum*, *Percina maculata*, and *P. nigrofasciata*.

315. Gum Creek. Franklin County, Alabama. Red Bay Quad. T7S, R15W, Sec 31 E-central. UAIC '72.

19 species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. parvipinne*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

316. Bull Mountain Creek. Itawamba County, Miss. Tremont Quad. T10S, R10E, Sec 5 NE, SE. Near Tremont at US 78. AUM '80, '81; MMNS '80, '81; MSU '71; UAIC '80; UMS '71. *Supra* Pierson and Schultz, 1984.

49 species: *Amia calva*, *Campostoma oligolepis*, *Cyprinella callistia*, *C. venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus*

chrysocephalus, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Nocomis leptoccephalus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *N. munitus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Elassoma zonatum*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus dolomieu*, *M. punctulatus*, *M. salmoides*, *Ammocrypta meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, *P. vigil*, and *P. sp. cf. caprodes*.

317. _____ . Shottsville Quad. T9S, R10E, Sec 26, SW,NW. About 4.8 mi NE Tremont. MMNS '68, '80; MSU '73; UAIC '80. *Supra* Pierson and Schultz, 1984.

33 Species: *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis winchelli*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Minytrema melanops*, *Noturus funebris*, *N. leptacanthus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Ambloplites ariommus*, *Lepomis macrochirus*, *L. megalotis*, *Ammocrypta meridiana*, *Etheostoma histrio*, *E. nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, *P. sciera*, *P. vigil*, and *P. sp. cf. caprodes*.

318. Hurricane Creek. Franklin County, Ala. Shottsville Quad. T8S, R15W, Sec 30 NE,SE. About 1.5 mi E Ala-Miss state line. UAIC '72.

23 Species: *Esox niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Noturus leptacanthus*, *Lepomis macrochirus*, *L. megalotis*, *L. microlophus*, *Micropterus punctulatus*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

319. Bull Mountain Creek. Itawamba County, Miss. Shottsville Quad. T9S, R11E, Sec 30 and T9S, R10E, Sec 26 NW. *Supra* Pierson and Schultz, 1984.

29 Species: *Anguilla rostrata*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Minytrema melanops*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Ambloplites ariommus*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. vigil*.

320. McConegal Creek, Marion County, Ala, Shottsville Quad. T9S, R16W, Sec 24 SE. About 5.5 mi NNW Bexar on CoRd 56. AUM '82.

24 Species: *Esox americanus*, *Campostoma oligolepis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Erimyzon sucetta*, *Hypentelium etowanum*, *Moxostoma erythrurum*, *Ameiurus natalis*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *Lepomis megalotis*, *Micropterus salmoides*, *Etheostoma rupestre*, *E. stigmaeum*, *Etheostoma* sp., and *Percina nigrofasciata*.

321. Bull Mountain Creek. Marion County, Ala. Vina Quad. T9S, R14W, Sec 7 SE. On Hwy 19. UAIC '66, '72.

29 Species: *Esox niger*, *Campostoma oligolepis*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Hypentelium etowanum*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta meridiana*, *Etheostoma nigrum*, *E. proeliare*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

322. Tombigbee River. Itawamba County, Miss. Beans Ferry Quad. T10S, R9E, Sec 18/19. About 1 mi below mouth of Mantachie Creek. CAS '68; UAIC '66, '72.

48 Species: *Dorosoma cepedianum*, *Hiodon tergisus*, *Cyprinella venusta*, *Extrarius* sp. cf. *aestivalis*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notropis atherinoides*, *N. baileyi*, *N. maculatus*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Carpoides cyprinus*, *Ictiobus bubalus*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Pylodictis olivaris*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. rupestre*, *E. swaini*, *Etheostoma* sp., *Percina maculata*, *P. sciera*, *P. sp. cf. caprodes*, and *Aplodinotus grunniens*.

323. Mantachie Creek. Itawamba County, Miss. Fulton Quad. T9S, R8E, Sec 32 SW,NE. About 0.25 mi N US 78. UAIC '66, '72; UMS '52.

32 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis atherinoides*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Minytrema melanops*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus nocturnus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. humilis*, *L. macrochirus*, *L. megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E. proeliare*, *E. whipplei*, *Etheostoma* sp., and *Percina maculata*.

324. Tombigbee River. Itawamba County, Miss. Beans Ferry Quad. T10S, R8E, Sec 11. Just above mouth of Mantachie Creek. CAS '68, '69.

1 Species: *Stizostedion vitreum*.

325. _____ . Fulton Quad. T9S, R8E, Sec 27/34. On US 78 about 1.75 mi WSW Fulton. CAS '68, '69; MMNS '79, '80, '83; MSU '72; UAIC '72; UNO '79.

40 Species: *Lepisosteus osseus*, *Dorosoma cepedianum*, *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Lythrurus bellus*, *Macrhybopsis storeriana*, *Notemigonus crysoleucas*, *Notropis texanus*, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Carpoides velifer*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus leptacanthus*, *Pylodictis olivaris*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. gulosus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma chlorosomum*, *E. nigrum*, *E.*

proeliare, *E. swaini*, *E. whipplei*, *Etheostoma* sp., *Percina maculata*, *P.* sp. cf. *caprodes*, and *Stizostedion vitreum*.

326. Cummings Creek. Itawamba County, Miss. Fulton Quad. T9S, R8E, Sec 24 SE. Just N Fulton. UAIC '71.

17 Species: *Lampetra aepyptera*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Etheostoma rupestre*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

327. Dulaney Creek, trib of Cummings Creek. Itawamba County, Miss. Fulton S E Quad. T9S, R9E, Sec 16 SE, NE. On Hwy 25 about 2 mi N US 78. MSU '68.

9 Species: *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *Semotilus atromaculatus*, *Noturus gyrinus*, *N. leptacanthus*, *Etheostoma swaini*, and *Percina nigrofasciata*.

SITES 328 THRU 341 ARE IN THE TWENTYMILE CREEK SYSTEM

328. Twentymile Creek. Itawamba County, Miss. Kirkville Quad. T8S, R8E, Sec 16 SW, NE. On CoRd 371. UAIC '71.

10 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Ictalurus punctatus*, *Lepomis macrochirus*, *Pomoxis nigromaculatus*, *Ammocrypta meridiana*, *Etheostoma chlorosomum*, and *E. nigrum*.

329. _____. Lee County, Miss. Tupelo Quad. T7S, R7E, Sec 34/35. On Natchez Trace Parkway about 8.3 mi NW Mantachie near Lee-Itawamba county line. MMNS '80.

17 Species: *Luxilus chrysocephalus*, *Notemigonus crysoleucas*, *Notropis texanus*, *Pimephales notatus*, *Noturus leptacanthus*, *Aphredoderus sayanus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Pomoxis annularis*, *P. nigromaculatus*, *Etheostoma proeliare*, *E. stigmaeum*, *E. swaini*, and *Percina sciera*.

330. Okeelala Creek. Lee County, Miss. Guntown Quad. T7S, R6E, Sec 2 SW. On US 45 about 3.5 mi N Guntown and 1.1 mi S Baldwyn. TU '51.

13 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Fundulus olivaceus*, *Lepomis megalotis*, *Micropterus punctulatus*, *M. salmoides*, *Etheostoma rupestre*, *E. whipplei*, and *Percina maculata*.

331. Wolf Creek. Lee-Prentiss county, Miss. Wheeler Quad. T6S/7S, R7E, Sec 31/6. About 1 mi E Baldwyn. MMNS '47.

1 Species: *Pimephales notatus*.

332. _____. Prentiss County, Miss. Baldwyn Quad. T6S, R6E, Sec 1 NW. On US 45 about 2 mi WNW Wheeler and 1 mi N Frankston. UMS '52; UAIC 67.

18 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Ameiurus natalis*, *Noturus nocturnus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. humilis*, *L. megalotis*, *Micropterus punctulatus*, *Etheostoma chlorosomum*, *E. nigrum*, *E. rupestre*, *E. whipplei*, and *Etheostoma* sp.

333. Osborne Creek. Prentiss County, Miss. Wheeler Quad. T5S, R7E, Sec 31 NW. On US 45 about 1.8 mi N Wheeler. MMNS '47.

2 Species: *Cyprinella venusta*, and *Etheostoma whipplei*.

334. Mud Creek. Itawamba County, Miss. Kirkville Quad. T8S, R9E, Sec 18 SW, SW. About 8.5 mi N Fulton. UAIC '72.

15 Species: *Ichthyomyzon gagei*, *Esox americanus*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptocephalus*, *Notropis baileyi*, *N. texanus*, *Semotilus atromaculatus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis megalotis*, *Etheostoma* sp., and *Percina nigrofasciata*.

335. Tombigbee River. Itawamba County, Miss. Kirkville Quad. T7S, R8E, Sec 35 SE. Near mouth Mackeys Creek. CAS '67; MMNS '80; UAIC '72.

19 Species: *Dorosoma cepedianum*, *Esox niger*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis texanus*, *Pimephales vigilax*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta asprella*, *A. beani*, *Etheostoma nigrum*, *E. rupestre*, *Percina nigrofasciata*, *P. sciera*, and *Stizostedion vitreum*.

336. Hurricane Creek, trib of Big Brown Creek. Prentiss County, Miss. Marietta Quad. T6S, R8E, Sec 34/3. About 1.5 mi E Marietta. UAIC '72.

19 Species: *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis winchelli*, *H. sp.* cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Ictalurus punctatus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis cyanellus*, *L. megalotis*, *Micropterus salmoides*, *Etheostoma whipplei*, *Etheostoma* sp., and *Percina sciera*.

337. _____. T6S, R8E, Sec 28-Central. On CoRd 371 about 2 mi N Marietta. MMNS '47.

4 Species: *Cyprinella venusta*, *Lythrurus bellus*, *Notropis stilbius*, and *Etheostoma nigrum*.

338. Big Brown Creek. Prentiss County, Miss. Altitude Quad. T5S, R8E, Sec 2 SE, SW. On CoRd 364, 1 mi E Altitude. UAIC '66.

17 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notropis baileyi*, *N. texanus*, *Fundulus olivaceus*, *Centrarchus macropterus*, *Lepomis macrochirus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. parvipinne*, *E. proeliare*, *E. rupestre*, *E. whipplei*, *Etheostoma* sp., and *Percina nigrofasciata*.

339. Little Brown Creek. Prentiss County, Miss. Marietta Quad. T6S, R9E, Sec 30 NW, NW. On Hwy 4. MMNS '47, '81.

12 Species: *Esox americanus*, *E. niger*, *Cyprinella venusta*, *Notropis* sp. cf. *longirostris*, *Minytrema melanops*, *Lepomis gulosus*, *L. macrochirus*, *L. megalotis*, *L. punctatus*, *Micropterus punctulatus*, *Etheostoma chlorosomum*, and *Percina nigrofasciata*.

340. _____. Paden S E Quad. T6S, R9E, Sec 4 W-central. About 2.5 mi S Hwy 30. UAIC '71.

10 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Lythrurus bellus*, *Notropis texanus*, *Pimephales notatus*, *Semotilus atromaculatus*, *Fundulus olivaceus*, *Etheostoma nigrum*, *Etheostoma* sp., and *Percina nigrofasciata*.

341. Lacy Creek, trib of Little Brown Creek. Prentiss County, Miss. Paden S E Quad. T5S, R9E, Sec 29 NE,NE. On Hwy 30 about 2 mi SW Burton. INHS '81.

8 Species: *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Pimephales notatus*, *Lepomis megalotis*, *Etheostoma nigrum*, and *Percina nigrofasciata*.

SITES 342 THRU 352 ARE IN THE MACKEYS CREEK SYSTEM

342. Mackeys Creek. Itawamba County, Miss. Kirkville Quad. T7S, R9E, Sec 19 SW,SW. About 1 mi S Prentiss-Itawamba county line. CAS '68, '69; MSU '76.

6 Species: *Cyprinella venusta*, *Notropis texanus*, *Minytrema melanops*, *Etheostoma swaini*, *Percina lenticula*, and *Stizostedion vitreum*.

343. _____ . Prentiss County, Miss. Fulton N E Quad. T7S, R9E, Sec 10 SW,NW. About 1 mi WNW Moores Mill at Prentiss-Tishomingo county line. MSU '71; UAIC 71.

32 Species: *Cyprinella venusta*, *Cyprinus carpio*, *Hybopsis winchelli*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Hypentelium etowanum*, *Moxostoma poecilurum*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Aphredoderus sayanus*, *Fundulus olivaceus*, *Lepomis cyanellus*, *L. macrochirus*, *L. megalotis*, *Pomoxis annularis*, *Ammocrypta beani*, *A. meridiana*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *Etheostoma* sp., *Percina lenticula*, *P. nigrofasciata*, and *P. vigil*.

344. Red Bud Creek. Tishomingo County, Miss. Fulton N E Quad. T7S, R10E, Sec 18 SW,NW. AUM '79; MMNS '79.

14 Species: *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *Pimephales notatus*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Noturus funebris*, *N. gyrinus*, *Fundulus olivaceus*, *Etheostoma nigrum*, *Etheostoma* sp., *Percina maculata*, and *nigrofasciata*.

345. Rock Creek. Tishomingo County, Miss. Paden S E Quad. T6S, R10E, Sec 33 NW,NW. About 2.7 mi W Belmont. AUN '80; MMNS '79, '80; UAIC '66.

14 Species: *Camptostoma oligolepis*, *Cyprinella venusta*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Notemigonus crysoleucas*, *Notropis baileyi*, *Semotilus atromaculatus*, *Hypentelium etowanum*, *Noturus funebris*, *Aphredoderus sayanus*, *Lepomis cyanellus*, *Micropterus salmoides*, *Etheostoma nigrum*, and *E. swaini*.

346. Mackeys Creek. Tishomingo County, Miss. Paden S E Quad. T6S, R9E, Sec 26 SW. About 0.5 mi E Prentiss-Tishomingo county line on Hwy 4. MSU '73; UAIC '66, '67.

27 Species: *Camptostoma oligolepis*, *Cyprinella venusta*, *Hybognathus hayi*, *Hybopsis winchelli*, *H. sp. cf. longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Pimephales notatus*, *P. vigilax*, *Ictalurus punctatus*, *Noturus funebris*, *N. leptacanthus*, *Fundulus olivaceus*, *Lepomis punctatus*, *Ammocrypta beani*, *Etheostoma nigrum*, *E. rupestre*, *E. stigmaeum*, *E. swaini*, *E. whipplei*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. vigil*.

347. _____ . Tishomingo County, Miss. Paden S E Quad. T6S, R9E, Sec 1 SE. At confluence with McDougal Branch. AUM '80; INHS '81; UAIC '72. This site is now under about 84 ft of water in Bay Springs Pool. The fishes here and upstream in Mackeys Creek system became part of the Tennessee River system fauna with the closing of Bay Springs Dam in November, 1983.

30 Species: *Ichthyomyzon gagei*, *Cyprinella venusta*, *Hybognathus nuchalis*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. stilbius*, *N. texanus*, *Opsopoeodus emiliae*, *Semotilus atromaculatus*, *Erimyzon sucetta*, *Minytrema melanops*, *Ictalurus punctatus*, *Noturus funebris*, *N. gyrinus*, *N. leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Lepomis macrochirus*, *L. megalotis*, *Micropterus salmoides*, *Ammocrypta beani*, *Etheostoma chlorosomum*, *E. nigrum*, *E. swaini*, *Etheostoma* sp., *Percina nigrofasciata*, and *P. vigil*.

348. McDougal Branch. Tishomingo County, Miss. Belmont Quad. T5S, R11E, Sec 34 SW,SW. On Natchez Trace Parkway. UMS '56.

5 Species: *Cyprinella venusta*, *Lythrurus bellus*, *Micropterus salmoides*, *Ammocrypta beani*, and *Etheostoma nigrum*,

349. Mackeys Creek. Tishomingo County, Miss. Paden Quad. T5S, R10E, Sec 20 N-central. About 1.25 mi S Hwy 30 at Paden. UAIC '67, '72. Inundated by Bay Springs Pool.

26 Species: *Ichthyomyzon gagei*, *Cyprinella venusta*, *Hybopsis* sp. cf. *longirostris*, *Luxilus chrysocephalus*, *Lythrurus bellus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Opsopoeodus emiliae*, *Pimephales vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Ameiurus natalis*, *Noturus leptacanthus*, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus*, *Lepomis cyanellus*, *L. macrochirus*, *Micropterus salmoides*, *Etheostoma nigrum*, *E. rupestre*, *Etheostoma* sp., and *Percina nigrofasciata*.

350. Jackson Spring. Tishomingo County, Miss. Tishomingo Quad. T5S, R10E, Sec 14 SW,SW. On headwaters of King Creek near Tennessee Valley Divide at Tishomingo. UAIC '64.

2 Species: *Semotilus atromaculatus* and *E. parvipinne*.

351. Sandy Hook Creek. Tishomingo County, Miss. Paden Quad. T5S, R10E, Sec 7 SE,SW. About 1.5 mi W Paden on Hwy 30. USM 79.

9 Species: *Luxilus chrysocephalus*, *Notropis texanus*, *Noturus funebris*, *Fundulus olivaceus*, *Lepomis macrochirus*, *L. marginatus*, *Micropterus salmoides*, *Etheostoma chlorosomum*, and *E. swaini*.

352. Hurricane Creek. Tishomingo County, Miss. Paden Quad. T5S, R10E, Sec 6 SW. About 0.25 mi from confluence with Mackeys Creek. UAIC '71, '72.

16 Species: *Lampetra aepyptera*, *Luxilus chrysocephalus*, *Nocomis leptoccephalus*, *Notropis baileyi*, *N. texanus*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *Hypentelium etowanum*, *Noturus funebris*, *Lepomis cyanellus*, *L. macrochirus*, *Etheostoma proeliare*, *E. rupestre*, *E. swaini*, *Etheostoma* sp., and *Percina nigrofasciata*.

FISH DATA FOLLOWING COMPLETION OF TTW

The Tennessee-Tombigbee Waterway was opened for traffic in January, 1985. From this time forward, fishes potentially could immigrate to the upper Tombigbee from the Tennessee River system, or emigrate from the Tombigbee to the Tennessee. In 1987 the U.S. Fish and Wildlife Service (Daphne, Alabama) initiated an ongoing

study of the fishes in the waterway for the U.S. Corps of Engineers (Mobile, Alabama). A compilation of species collected at the selected sites (as of Spring, 1989) is presented in Table 1. The sites, located on bendways, are identified by names on Fig. 2 and Table 1.

SPECIES ACCOUNTS AND DISTRIBUTION MAPS

The following annotated list of fish species is in two parts. The first list (Upper Tombigbee Fishes) includes fishes that I consider to be typical residents; that is, native and introduced species represented by reproductive populations that sustain themselves in the upper Tombigbee River system, and species that are catadromous or anadromous on a regular basis. Species of the second list (Unusual or Questionable Species) are not considered part of the native fish fauna for reasons given in the annotations.

The arrangement of taxonomic categories and common names follows Robins et al. (1980).

Debates persist regarding the classification of North American fishes. I choose to follow recent revisions in the classification of cyprinids made by Mayden (1989). The bullhead catfishes are placed in the genus *Ameiurus*, following the analysis of Lundberg (1982). I follow Parenti (1981) and Johnson (1984) in recognizing the families Fundulidae and Moronidae respectively. *Elassoma* is

placed in Elassomatidae following Branson and Moore (1962), an action substantiated by Johnson (1984). Species names following the title line are references to recent literature when the symbol ".—" precedes the author's name. Although I have not established a synonymy, certain synonyms are given, as proper, without intervening punctuation between the scientific name and its author. References to original descriptions are readily available (Lee et al., 1980).

Dots on the distribution maps represent the best approximations of the locality of a collection site. Each dot corresponds to a numbered site on Figure 1. A dot on the species distribution maps covers an area approximately 1.5 mi in diameter, consequently nearby sites are lumped under one dot. For example, in large river collections there are no sharp lines of demarcation between sites, so, for convenience and clarity, all collections made within 0.75 mi above and below a given point are indicated by a single dot.

Table 1. Fishes collected post-TTW completion in selected severed bendways and associated canals. (U. S. Fish and Wildlife Service, 1988)

-
- A. Cooks Bend. Sumter County, Ala. Gainesville Pool, rmi 277.
 - B. Big Creek. Pickens County, Ala. Immediately downstream from Aliceville Lock and Dam, rmi 305.
 - C. Hairston Bend. Lowndes County, Miss. Aliceville Pool, rmi 318.
 - D. Columbus Creek. Lowndes County, Miss. Aliceville Pool, rmi 330.
 - E. Buttahatchee River. Clay County, Miss. Columbus Pool, rmi 344.
 - F. Denmon Creek. Monroe County, Miss. Columbus Pool, rmi 347.
 - G. Cane Creek. Monroe County, Miss. Columbus Pool, rmi 347.6.
 - H. New Hamilton. Monroe County, Miss. Columbus Pool, rmi 350.
 - I. Lockridge Creek. Monroe County, Miss. Columbus Pool, rmi 350.5.
 - J. James Creek. Monroe County, Miss. Columbus Pool, rmi 353.
 - K. Becker Bottom. Monroe County, Miss. Aberdeen Pool, rmi 364.
 - L. Roundhouse Branch. Monroe County, Miss. Aberdeen Pool, rmi 366.

Table 1 continued on next page

Table 1. Fishes collected post-TTW completion in selected severed bendways and associated canals. (U. S. Fish and Wildlife Service, 1988)

Species	Bendways											
	A	B	C	D	E	F	G	H	I	J	K	L
<i>Lepisosteus oculatus</i>	x	x	x	x	x	x	x	x	x	x		x
<i>Lepisosteus osseus</i>	x		x	x	x	x		x			x	
<i>Amia calva</i>	x	x	x		x	x	x		x			
<i>Anguilla rostrata</i>			x								x	
<i>Alosa chrysochloris</i>	x	x	x	x	x	x	x	x		x		x
<i>Dorosoma cepedianum</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Dorosoma petenense</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Esox niger</i>				x					x			
<i>Cyprinella venusta</i>	x	x	x	x	x	x	x			x		
<i>Cyprinus carpio</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Hybopsis winchelli</i>												x
<i>H. sp cf longirostris</i>				x		x		x				x
<i>Macrhybopsis storeriana</i>				x							x	
<i>Notemigonus crysoleucas</i>					x						x	
<i>Notropis atherinoides</i>		x	x	x	x	x	x	x	x	x	x	x
<i>Opsopoeodus emiliae</i>	x	x	x	x		x	x		x	x		x
<i>Pimephales notatus</i>					x							x
<i>Pimephales vigilax</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Semotilus atromaculatus</i>				x								
<i>Carpionodes cyprinus</i>	x		x		x			x	x	x	x	
<i>Carpionodes velifer</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Ictiobus bubalus</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Minytrema melanops</i>	x	x	x		x	x	x		x	x	x	x
<i>Moxostoma poecilurus</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Ictalurus furcatus</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Ictalurus punctatus</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Pylodictis olivaris</i>	x	x	x	x	x		x	x	x	x	x	
<i>Aphredoderus sayanus</i>									x			
<i>Strongylura marina</i>	x		x		x	x		x	x		x	
<i>Fundulus notatus</i>	x		x	x	x		x					
<i>Fundulus olivaceus</i>	x	x	x	x	x	x					x	
<i>Gambusia affinis</i>		x	x	x	x	x		x	x	x		
<i>Labidesthes sicculus</i>	x	x		x	x	x					x	
<i>Morone saxatilis x chrysops</i>	x	x	x	x								
<i>Elassoma zonatum</i>									x			
<i>Lepomis cyanellus</i>					x	x					x	
<i>Lepomis gulosus</i>	x	x		x	x	x	x	x	x	x	x	x
<i>Lepomis humilis</i>	x	x		x	x	x	x	x	x	x	x	x
<i>Lepomis macrochirus</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Lepomis megalotis</i>	x	x	x	x	x	x		x			x	x
<i>Lepomis microlophus</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Micropterus punctulatus</i>	x	x	x	x		x	x	x	x	x	x	x
<i>Micropterus salmoides</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Pomoxis annularis</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Pomoxis nigromaculatus</i>	x	x	x	x	x	x	x	x	x	x	x	x
<i>Etheostoma stigmaeum</i>											x	
<i>Etheostoma swaini</i>									x			
<i>Percina sp cf caprodes</i>	x			x	x		x				x	x
<i>Stizostedion vitreum</i>											x	x
<i>Aplodinotus grunniens</i>	x	x	x	x	x	x	x	x	x	x	x	x

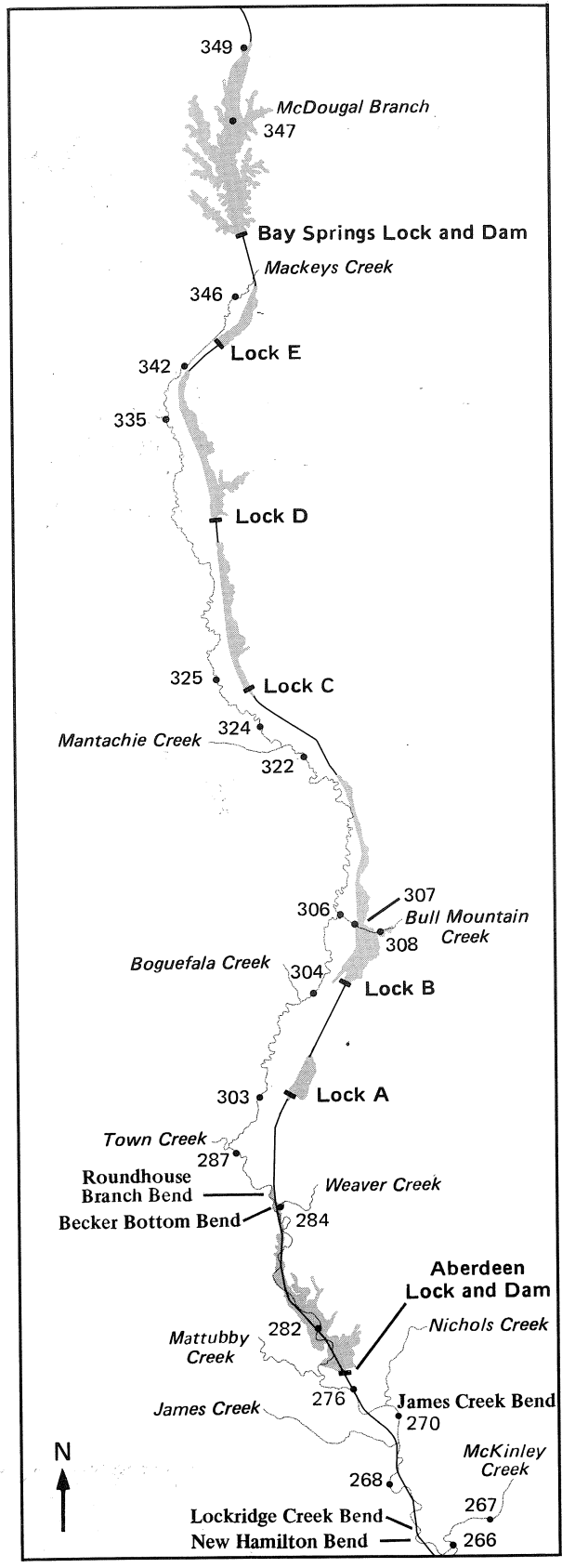
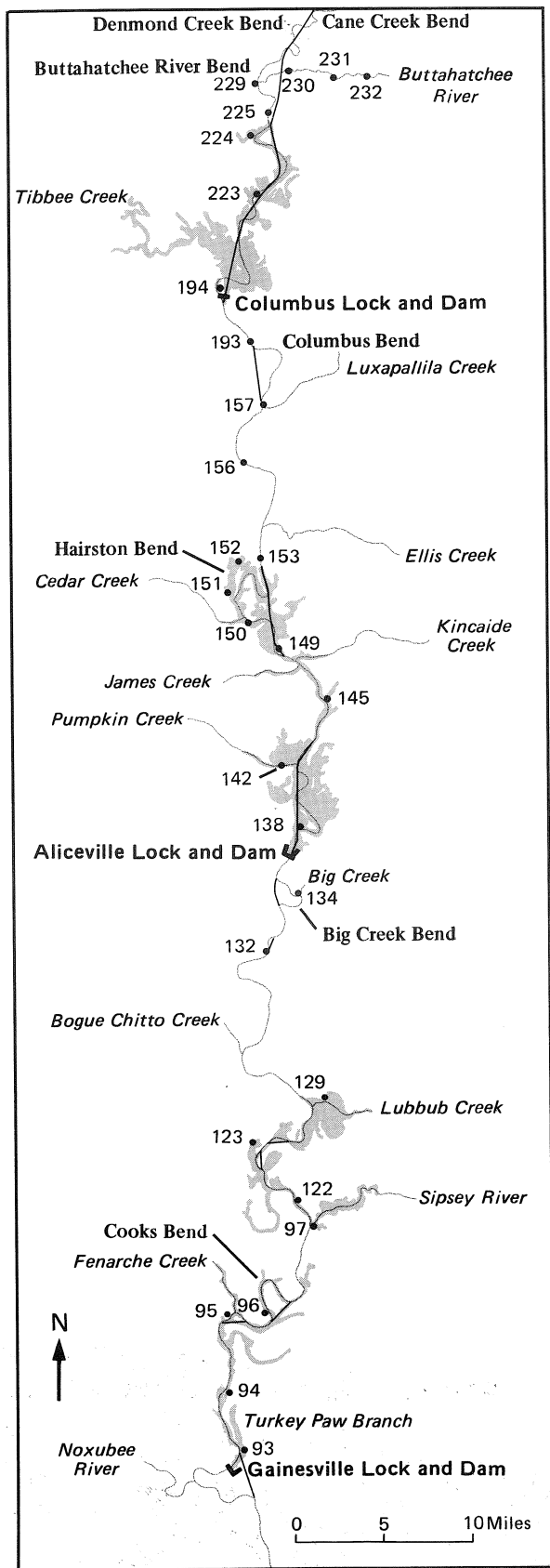


Fig. 2. The Tombigbee River and the Tennessee-Tombigbee Waterway. The original Tombigbee River is represented by the thin meandering line. Bendway cutoffs are shown as relatively heavy solid lines. Shaded areas represent impoundments. Numbered dots correspond to the sites in Figure 1. The named bends are the locations of the sites referred to in Table 1.

Upper Tombigbee Fishes

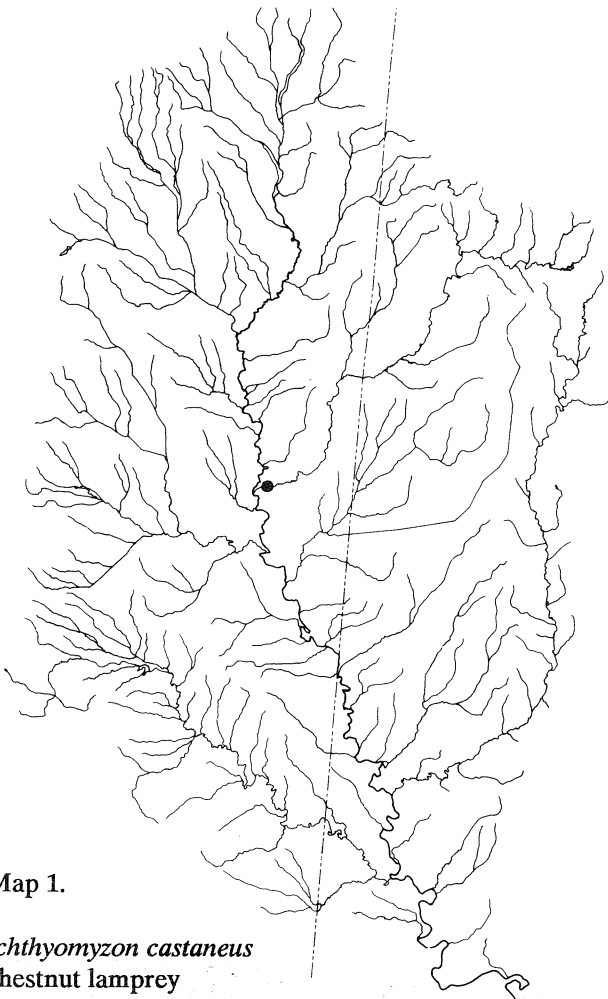
PETROMYZONTIDAE — lampreys

Ichthyomyzon castaneus Girard chestnut lamprey

The type locality is Galena, Illinois, not Galena, Minnesota, as generally stated in the literature (Starrett et al., 1960).

The only record of the chestnut lamprey in the upper Tombigbee is that of Cook (1959) who reported two specimens, collected in March 1955, from the Buttahatchee River in Lowndes County, Mississippi. One of the specimens was attached to a buffalo fish, probably *Ictiobus bubalus*.

1 Site: 230. Map 1.



Map 1.

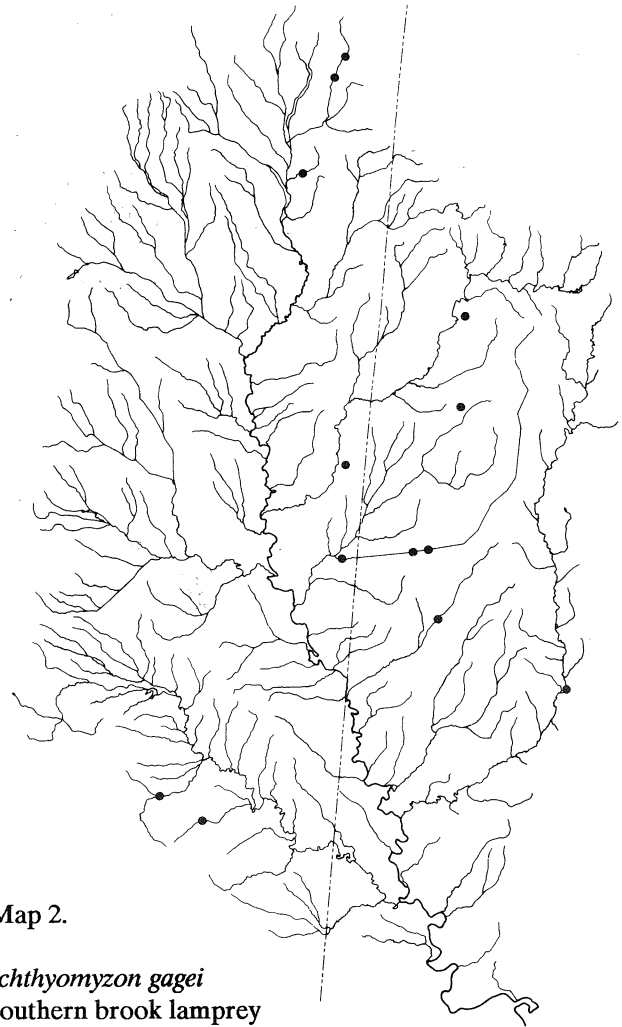
Ichthyomyzon castaneus
chestnut lamprey

Ichthyomyzon gagei Hubbs and Trautman

southern brook lamprey

As elsewhere in Alabama and Mississippi, the southern brook lamprey seems to avoid streams of the Upper Coastal Plain. In the Noxubee drainage, it is in relatively high-gradient streams.

13 Sites: 37, 58, 106, 140, 174, 179, 188, 189, 238, 256, 334, 347, and 349. Map 2.



Map 2.

Ichthyomyzon gagei
southern brook lamprey

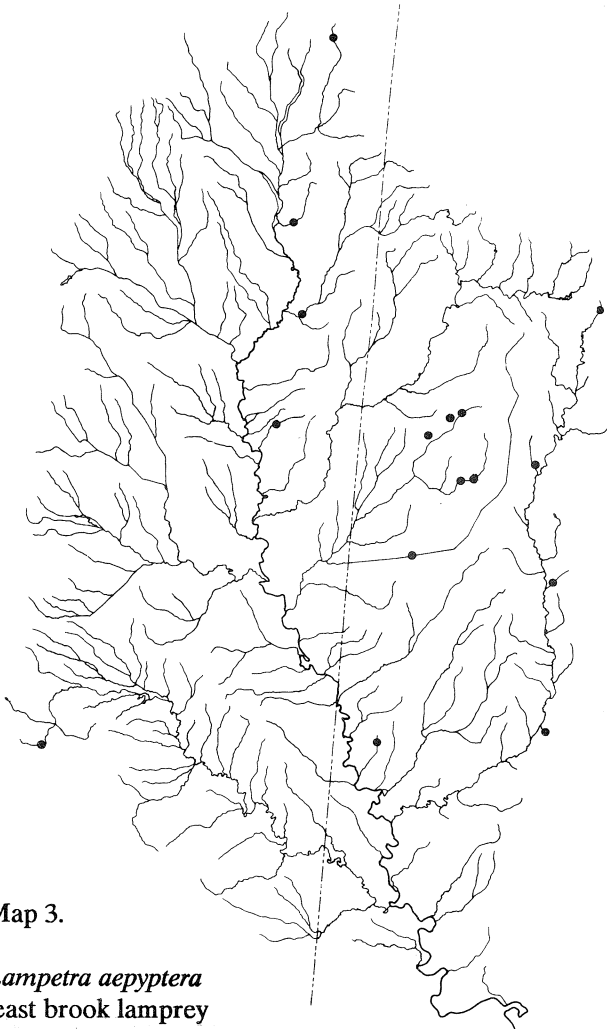
Lampetra aepyptera (Abbott) least brook lamprey

Lethenteron meridionale Vladykov, Kott and Pharand-Coad 1975

Lampetra meridionale.— Rohde, 1980

Lethenteron meridionale is considered a synonym of *Lampetra aepyptera* by Bailey (1980, 1982) and Walsh and Burr (1981) who maintain the posterior circumoral teeth, a principal character that separates *Lethenteron* (Vladykov and Follett, 1967; Vladykov et al., 1975) from *Lampetra*, is quite variable and, therefore, unreliable for distinguishing genera.

16 Sites: 90, 104, 112, 115, 121, 133, 173-177, 189, 274, 310, 326, and 352. Map 3.



Map 3.

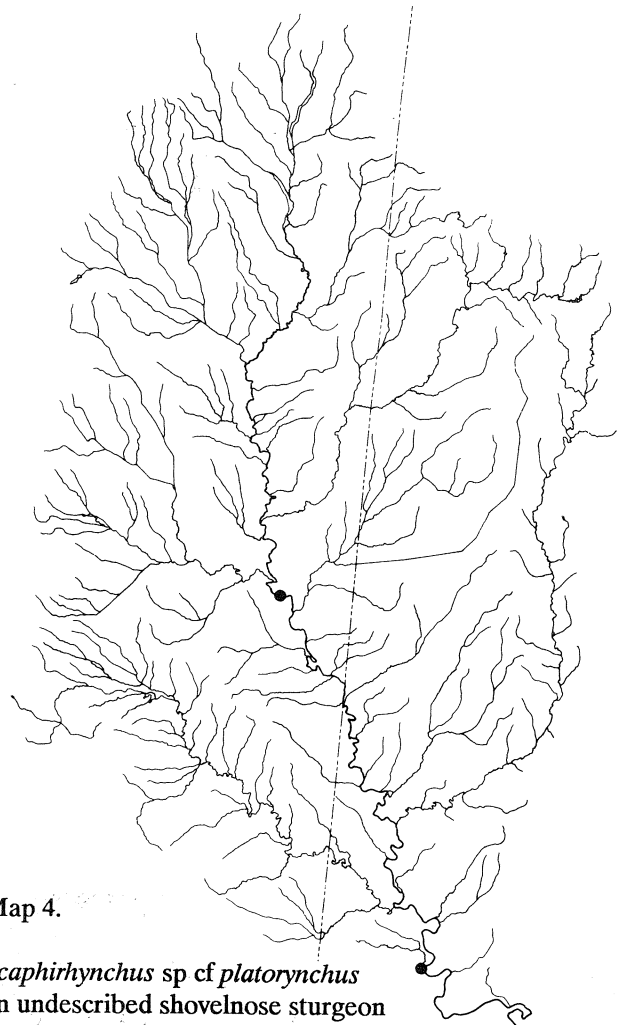
Lampetra aepyptera
least brook lamprey

Scaphirhynchus sp cf platorynchus (Rafinesque)

Alabama shovelnose sturgeon

The Alabama shovelnose sturgeon is an undescribed species endemic to Mobile basin and similar to the shovelnose sturgeon, *Scaphirhynchus platorynchus* of mid-America, but differs in eye size and other morphometrics. It is being described by Glenn H. Clemmer and James D. Williams. Records from the upper Tombigbee are rare. The only extant museum specimen (UAIC 401.01) was captured in 1953 near Epps, Alabama (Chermock, 1955). One specimen from near Columbus, Mississippi, (date of capture unknown) is missing from the Mississippi Museum of Natural History in Jackson (James D. Williams, pers. comm.). Denzel Ferguson identified a specimen from Columbus in the mid or late 1960s (Glenn Clemmer, pers. comm.). For a detailed compilation of the biological and geographical knowledge of the Alabama shovelnose sturgeon, see Burke and Ramsey (1985).

2 Sites: 8 and 193. Map 4.



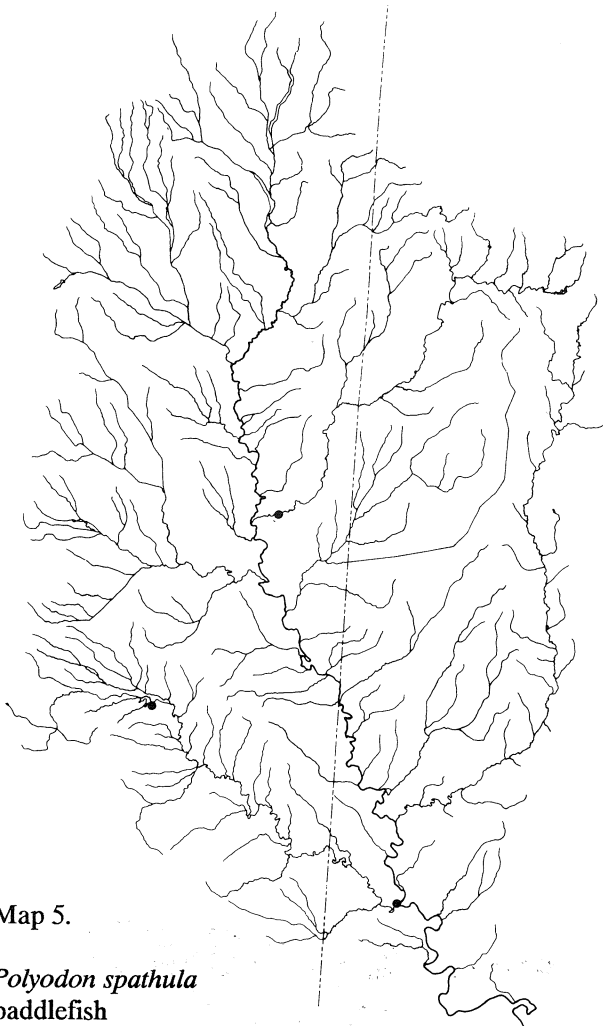
Map 4.

Scaphirhynchus sp cf *platorynchus*
an undescribed shovelnose sturgeon

Polyodon spathula (Walbaum) paddlefish

Once common in main streams of Mobile basin, the numbers of paddlefish are declining (Deacon et al., 1979; Gengerke, 1986), and museum records from the upper Tombigbee River drainage are rare. Paddlefish literature is extensive (Graham and Bonislowsky, 1978), and the general consensus is that paddlefish spend most of their lives in bendways and oxbow lakes near large rivers, but, for spawning, they require free-flowing rivers with shallow silt-free gravel bars, a habitat hardly available in the upper Tombigbee. In addition, paddlefish need an increase flow of warm water (60 degrees F) to triggers spawning (Russell, 1986).

3 Sites: 80, 93, and 231. Map 5.



Map 5.

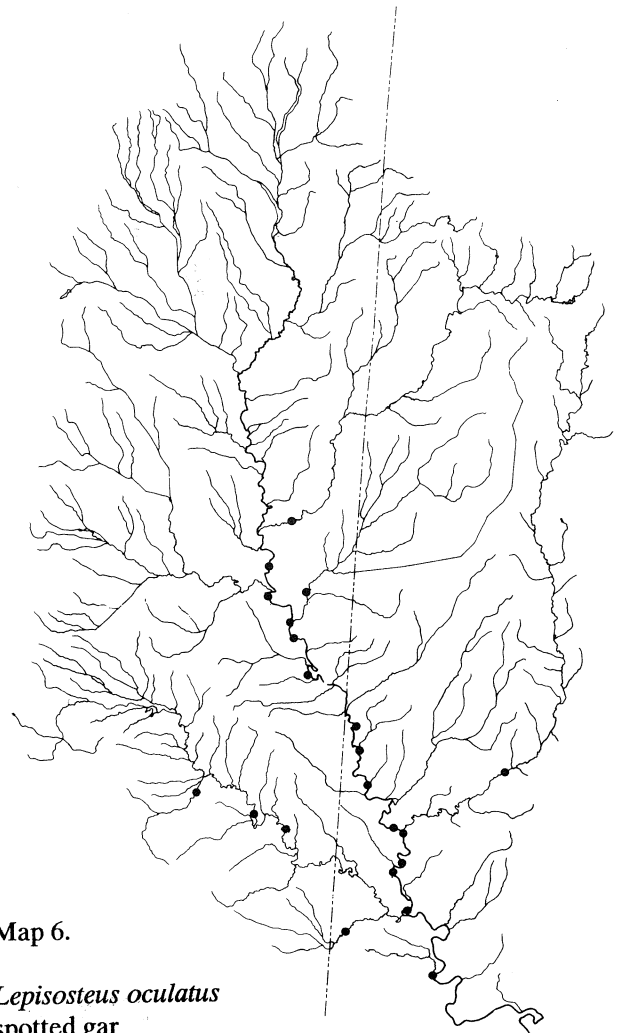
Polyodon spathula
paddlefish

Lepisosteus oculatus Winchell spotted gar

Lepisosteus productus (Cope)

The spotted gar is less tolerant of continuous turbidity than is the longnose gar, *Lepisosteus osseus*, and it shows a greater affinity for rooted aquatic vegetation. Although the altered upper Tombigbee provides ample shallow, vegetated pools, it is the reproductive habitat that is critical. The spawning habitat varies from clear pools to rapid-flowing water coming from flooded timberland (Pflieger, 1975). A 26 mm TL specimen was captured June 6, 1972 over a gravel bar in the river proper near Big Creek (Site 134), and others measuring 32 to 77 mm were collected May 30, 1972 in an isolated pool off the the main channel near Coulmbus (Site 157).

21 Sites: 8, 13, 29, 39, 56, 93, 95-97, 101, 122, 132, 134, 138, 151, 156, 157, 163, 194, 223, and 232. Map 6.



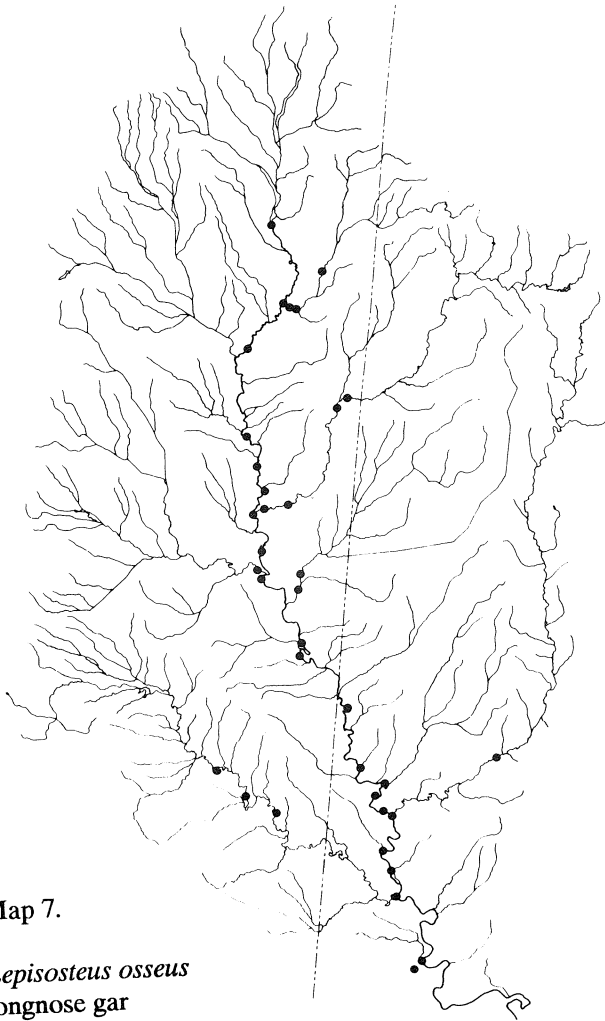
Map 6.

Lepisosteus oculatus
spotted gar

Lepisosteus osseus Linnaeus **longnose gar**

The longnose gar occupies the quiet water of the main channel and, more so than the spotted gar, the high-gradient areas of large tributaries. Adults will make rather long migrations to spawning sites in streams that have clear water and relatively high gradient. Consequently, we probably will see fewer longnose and relatively more spotted gar in the future upper Tombigbee.

36 Sites: 7, 8, 29, 39, 49, 93-95, 97, 101, 122, 123, 129, 132, 138, 151, 153, 161, 163, 194, 195, 223, 229, 230, 232, 241, 250, 266, 268, 276, 303, 306-308, 312, and 325. Map 7.



Map 7.

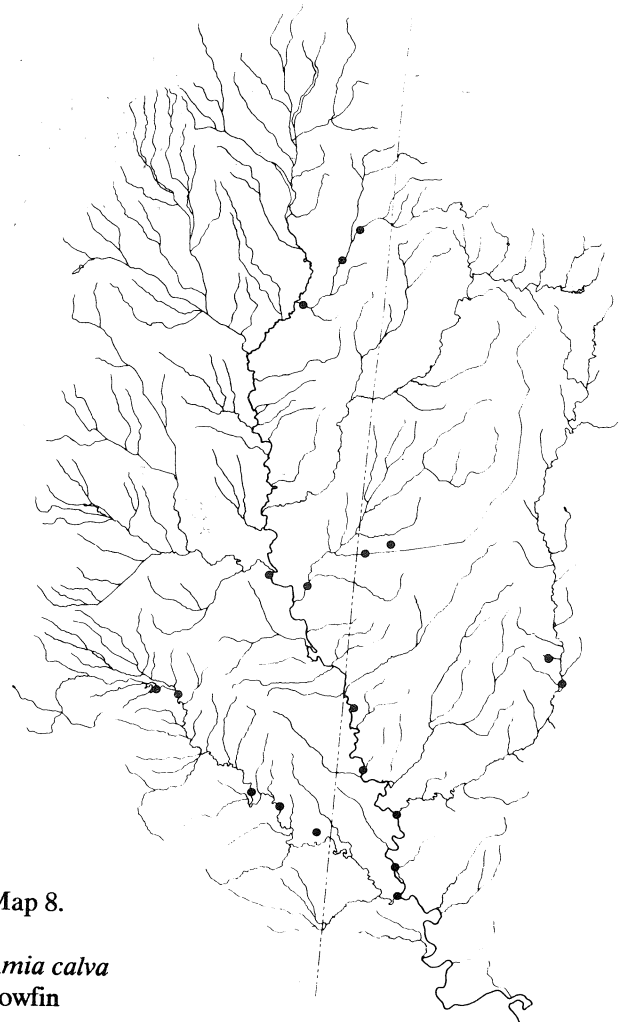
Lepisosteus osseus
longnose gar

AMIIDAE — bowfins

Amia calva Linnaeus **bowfin**

Historically, the bowfin has decreased in abundance throughout its range, even extirpated in places due to excessive siltation and high turbidity. In preparation for spawning, it builds nests in sand and gravel, or occasionally in mats of soft rootlets.

19 Sites: 23, 29, 39, 73, 80, 93, 94, 97, 106, 109, 132, 138, 161, 182, 186, 194, 307, 312, and 316. Map 8.



Map 8.

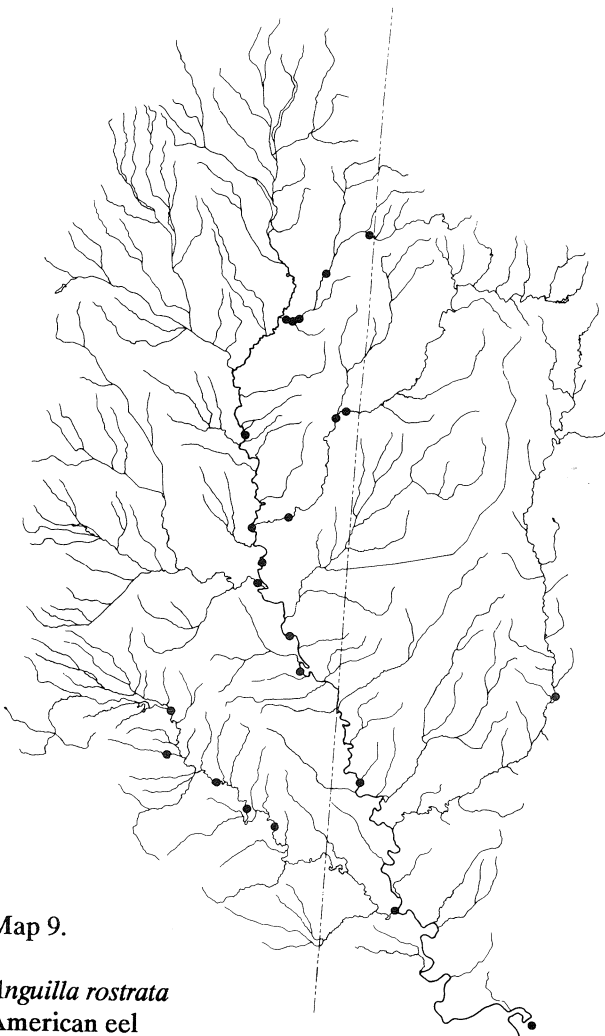
Amia calva
bowfin

Anguilla rostrata (Lesueur)

American eel

The increase in number of obstacles will decrease the chances of the eel reaching the headwaters of the Tombigbee.

23 Sites: 1, 29, 39, 49, 66, 73, 93, 106, 132, 151, 156, 195, 223, 229, 232, 241, 250, 282, 307, 308, 310, 312, and 319. Map 9.



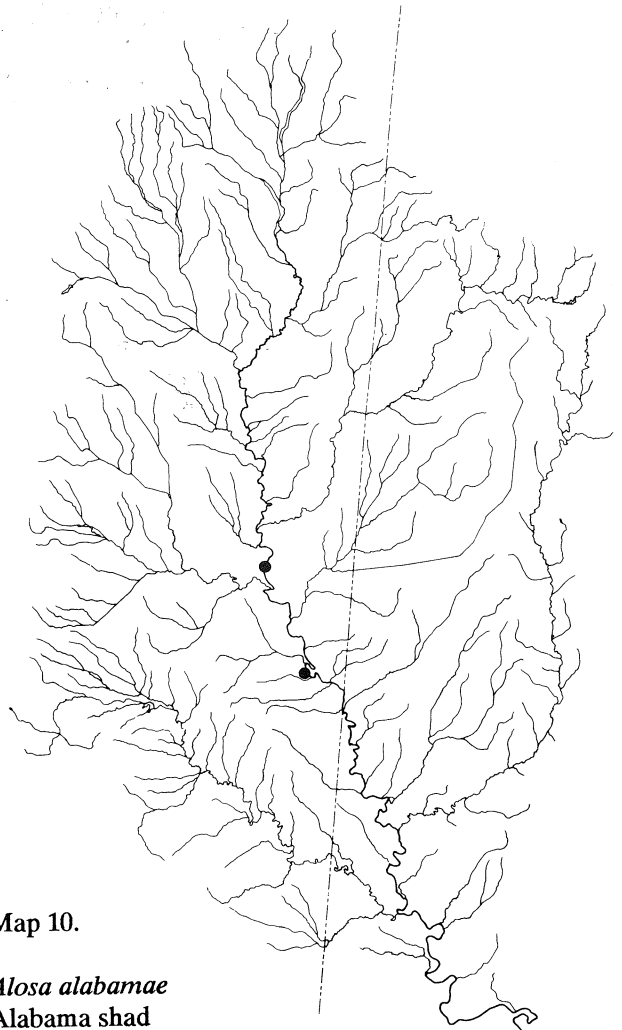
Map 9.

Anguilla rostrata
American eel

Alosa alabamiae Jordan and Evermann **Alabama shad**

I identified some small *Alosa* collected during the 1972-1973 TTW survey as *A. alabamiae*. The specimens have been reexamined and tagged *A. chrysochloris*. Specimens MSU 541, 1089, and 6329 (collected in 1969), and MSU 7898 (collected in 1971) are from Sites 151 and 223. These may represent the last of the Alabama shad in the upper Tombigbee River. Migration is now made more difficult by barrier dams, and the spawning habitat, characterized as coarse sand and gravel swept by moderate currents, is greatly impoverished.

2 Sites: 151 and 223. Map 10.



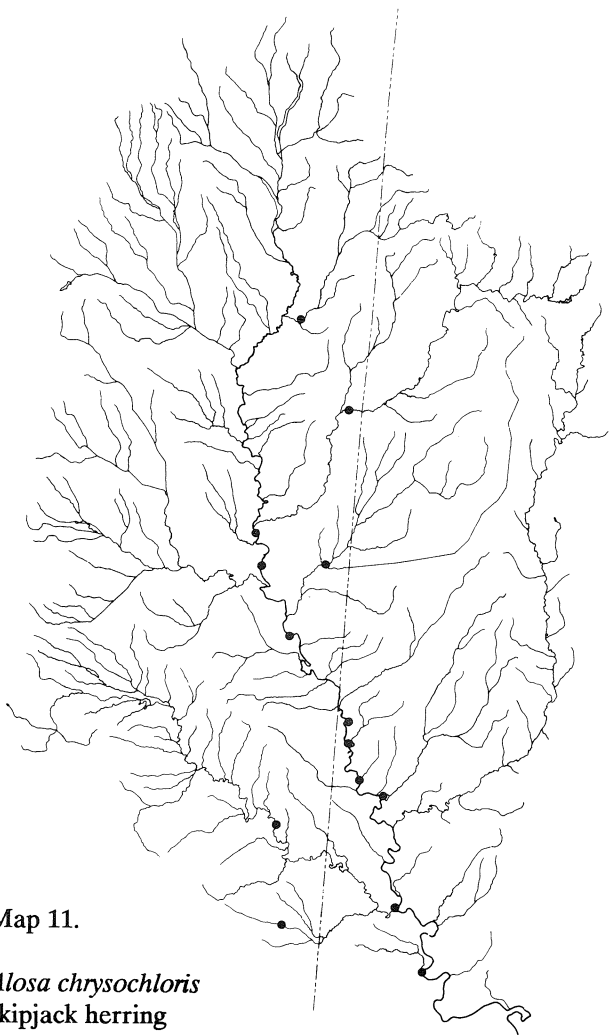
Map 10.

Alosa alabamiae
Alabama shad

***Alosa chrysochloris* (Rafinesque) skipjack herring**

Although landlocked populations have become established in impoundments (Coker, 1930), I see little reason to assume that the fate of the skipjack herring in the upper Tombigbee will not follow that of the Alabama shad. Current-swept gravel is the spawning habitat (Wolfe, 1969).

14 Sites: 8, 16, 29, 93, 129, 132, 134, 138, 156, 167, 223, 225, 250, and 310. Map 11.

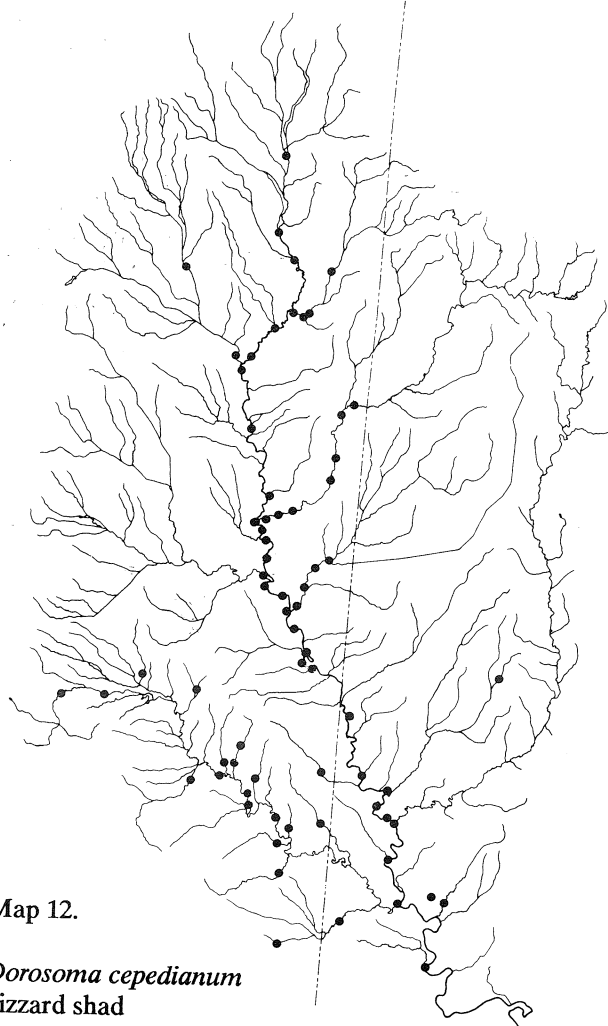


Map 11.
Alosa chrysochloris
skipjack herring

***Dorosoma cepedianum* (Lesueur) gizzard shad**

Requirements for success of this species are provided in the TTW.

69 Sites: 8, 10, 12, 13, 17, 20, 24, 27-29, 32, 39, 40, 42, 43, 45, 49, 56, 71, 76, 82, 87, 93, 95, 97, 122, 123, 126, 129, 131, 132, 138, 150, 151, 153, 156-158, 163, 164, 167, 193-195, 223-225, 229-232, 237, 239, 241, 250, 266, 282, 287, 288, 296, 303, 304, 307, 308, 310, 312, 322, 325, and 335. Map 12.

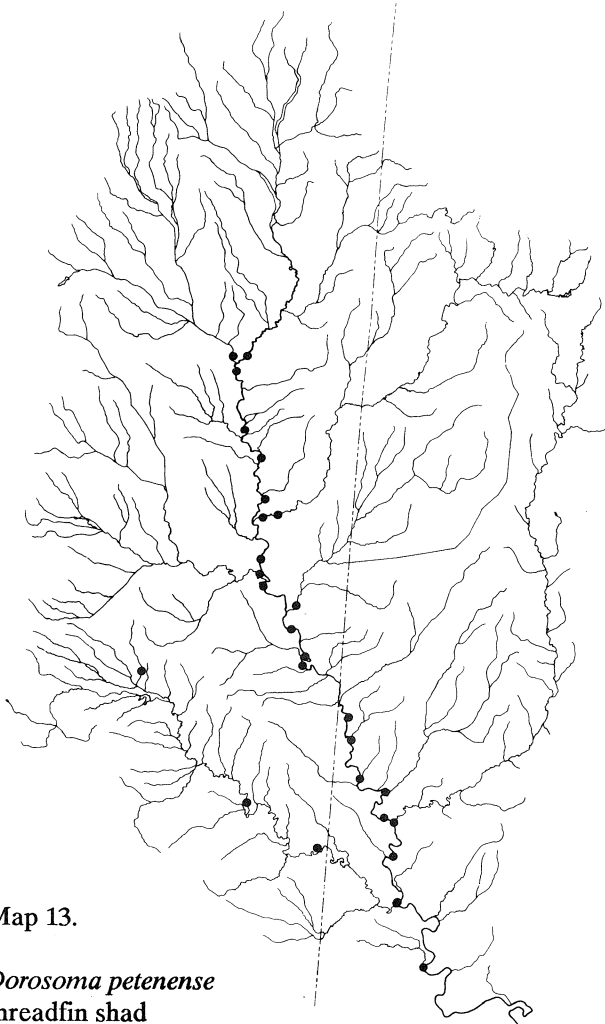


Map 12.
Dorosoma cepedianum
gizzard shad

***Dorosoma petenense* (Gunther) threadfin shad**

Like the gizzard shad, the threadfin shad will be successful in the impoundments of the TTW. Its high biotic potential, rapid growth, feeding strategy, and small size make it a desirable forage fish.

27 Sites: 8, 22, 39, 76, 93, 96, 97, 122, 129, 132, 134, 138, 151, 153, 156, 158, 194, 195, 223, 230, 231, 266, 270, 282, 287, 288 and 303. Map 13.



Map 13.

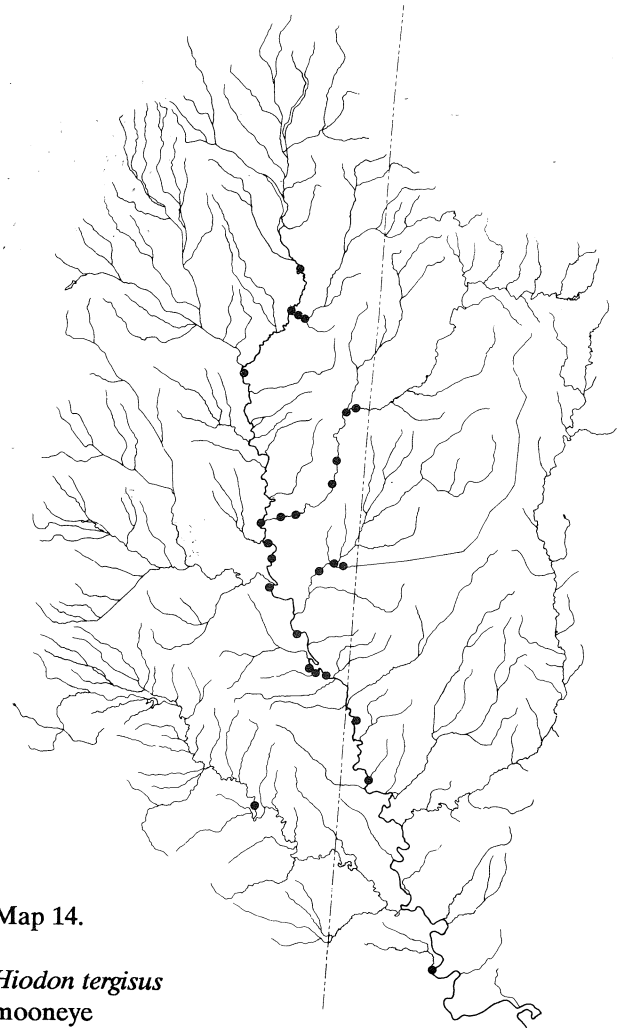
Dorosoma petenense
threadfin shad

HIODONTIDAE — mooneyes

***Hiodon tergisus* Lesueur mooneye**

The mooneye is not very tolerant of turbidity (Scott and Crossman, 1973). Its success in the upper Tombigbee will probably depend on the availability of large clear tributaries for spawning.

26 Sites: 8, 39, 132, 138, 149-151, 156, 164, 167, 179, 194, 223, 224, 229, 231, 232, 237, 239, 241, 250, 287, 306-308, and 322. Map 14.



Map 14.

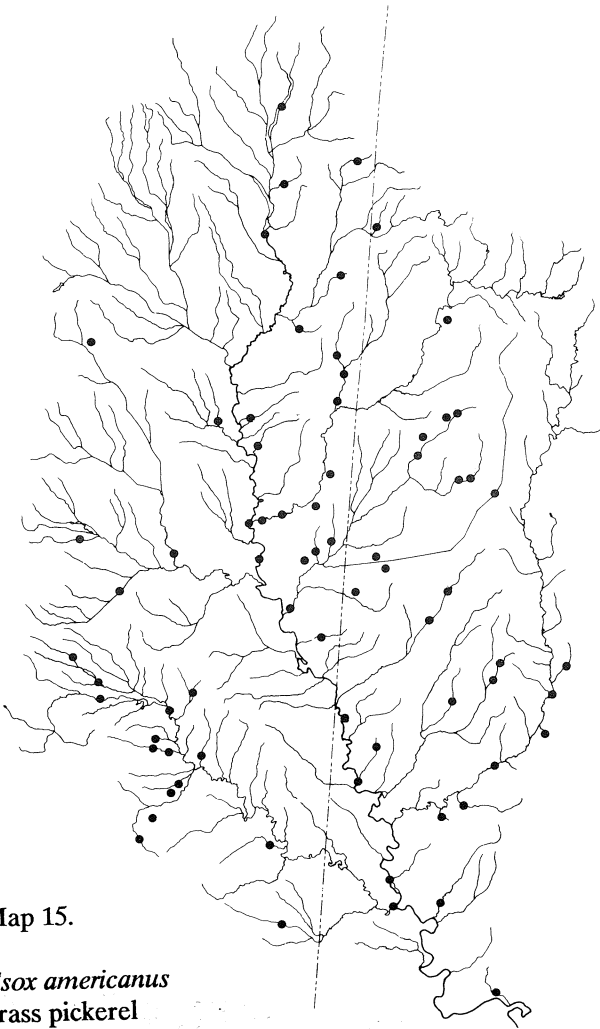
Hiodon tergisus
mooneye

ESOCIDAE — pikes

Esox americanus Gmelin redfin pickerel

The upper Tombigbee is the western edge of the area of intergradation between *E. a. americanus*, the redfin pickerel, and *E. a. vermiculatus*, the grass pickerel (Crossman, 1966). The habitat of *E. americanus* is such that it should not be adversely affected by the TTW. This pickerel is often associated with *Justicia*.

72 Sites: 2, 10, 16, 27, 51, 54, 55, 59, 64, 66, 67, 69, 71, 73, 78, 79, 82, 93, 94, 98, 100, 101, 104, 106, 108, 124, 126, 127, 132, 133, 138, 140, 141, 154, 158, 162, 165, 166, 168, 172-177, 186, 187, 190, 204, 208, 210, 221, 223, 229, 230, 232, 233, 238, 242, 244, 245, 256, 272, 277, 283, 309-311, 314, 320, 325, 334, and 339. Map 15.



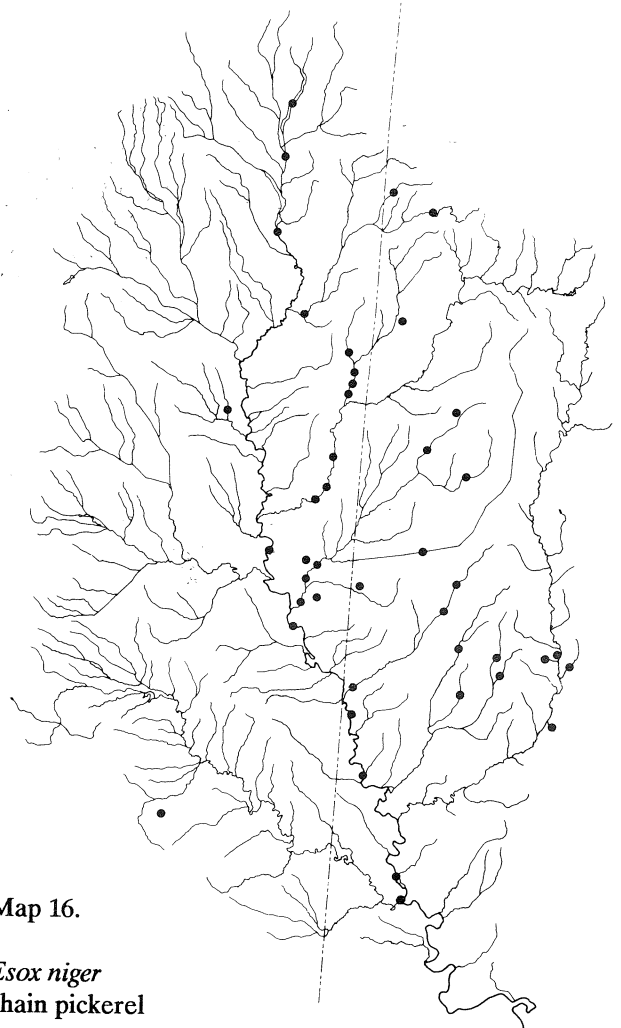
Map 15.

Esox americanus
grass pickerel

Esox niger Lesueur chain pickerel

The habitat of the chain pickerel seems to be more variable than that of the redfin pickerel. Nevertheless, the chain pickerel is far less common. It may be found in heavily vegetated impoundments to large, high-gradient streams.

43 Sites: 59, 93, 94, 101, 104, 108-110, 124-126, 128, 132, 138-141, 156, 158, 159, 162-165, 172, 174, 176, 189, 223, 234, 235, 239, 242-246, 277, 310, 318, 321, 325, 335, and 339. Map 16.



Map 16.

Esox niger
chain pickerel

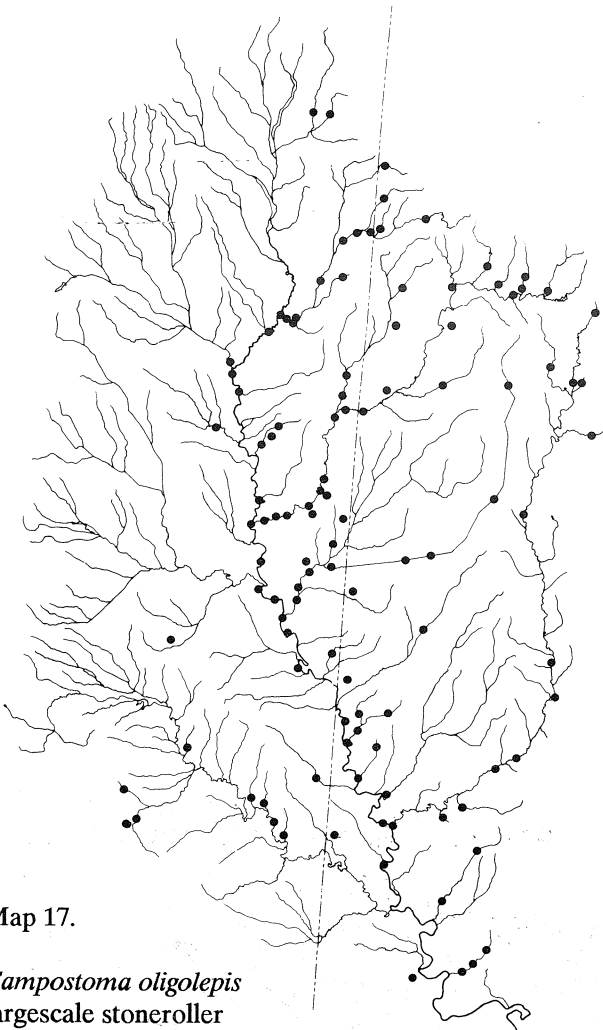
Campostoma oligolepis Hubbs and Greene

largescale stoneroller

Campostoma anomalum (Rafinesque)

Campostoma oligolepis was originally described as a subspecies of *Campostoma anomalum*. It was redescribed and elevated to species status by Pflieger (1971), and later confirmed by Burr and Smith (1976). Distributional status of the species in southeastern United States was clarified by Burr and Cashner (1983). Literature pertaining to *Campostoma oligolepis*, especially upper Tombigbee populations, should be searched under *C. anomalum*. This species is affected by the TTW to the extent that its habitat is inundated.

111 Sites: 4-7, 10, 11, 18, 28-31, 60-62, 65, 95, 97, 98, 100, 101, 103, 106, 110, 114, 116, 118-122, 129, 131-138, 140, 144, 148, 151, 156, 157, 161-165, 168, 169, 179, 188-191, 193, 194, 201, 223, 229-237, 241, 243, 244, 246, 249-251, 253, 255, 256, 258, 259, 261, 262-266, 272-274, 279, 284, 287, 288, 304, 306-308, 310-312, 315-321, 345, and 346. Map 17.



Map 17.

Campostoma oligolepis
largescale stoneroller

Cyprinella callistia (Jordan)

Alabama shiner

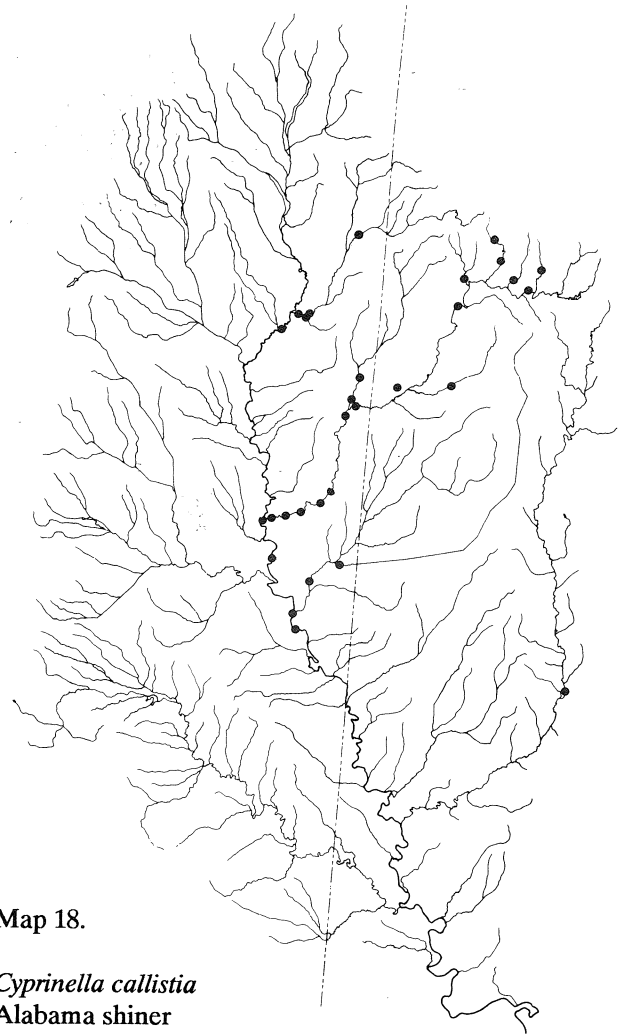
Photogenus callistius Jordan

Notropis callistius (Jordan).— recent authors

Cyprinella callistia.— Mayden, 1989

The habitat of the Alabama shiner is typically clear, free-flowing, rubble- or gravel-bottomed upland streams of moderate size. The TTW will exclude the species from the lower reaches of the larger tributaries.

30 Sites: 106, 156, 157, 163, 179, 223, 229-232, 234, 235, 241, 242, 244, 250, 253, 255, 257-262, 264, 304, 307, 308, 310, and 316. Map 18.



Map 18.

Cyprinella callistia
Alabama shiner

Cyprinella venusta Girard

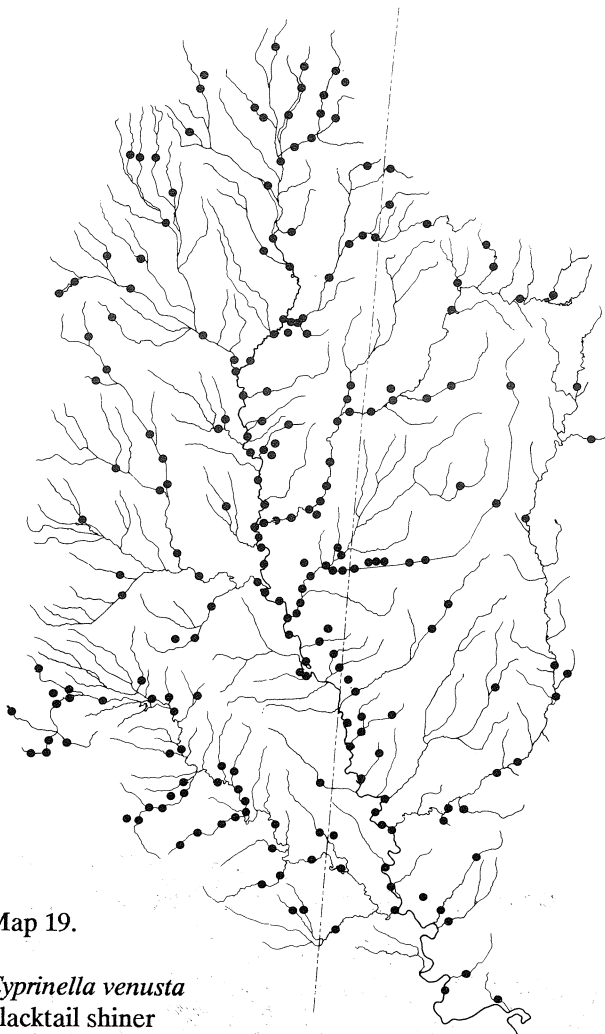
blacktail shiner

Notropis venustus (Girard).— recent authors

Cyprinella venusta.— Mayden, 1989

The most common habitat of the blacktail shiner is clear, sand-bottomed streams of moderately large size, but upland populations occur over substrates with more gravel and rubble (Gilbert and Burgess, 1980). In some areas, it is found in the placid waters of lakes and bayous (Douglas, 1974). The species should not be adversely affected by the TTW.

224 Sites: 2, 3, 4, 9-15, 18, 19, 21, 22, 24, 25, 27, 29, 35-42, 45, 49, 54-58, 61, 62, 66, 68, 71, 73-76, 82-95, 97-101, 103, 106, 108, 110, 114, 116, 120, 122, 123, 126, 129, 131-141, 144, 147, 148, 150, 151, 153-158, 161, 163, 164, 165, 167, 168, 170, 176, 179, 180, 182-184, 186, 188-191, 193-196, 200, 201, 203-205, 209-212, 215-219, 222- 226, 229-235, 237, 239, 241, 243, 244, 250-255, 257-260, 262, 265, 266, 268, 271-274, 276, 277, 279, 282, 283-285, 287-295, 297, 299-310, 312, 314-319, 321-323, 325, 326, 328, 330, 332, 333, 335-343, and 345-349. Map 19.



Map 19.

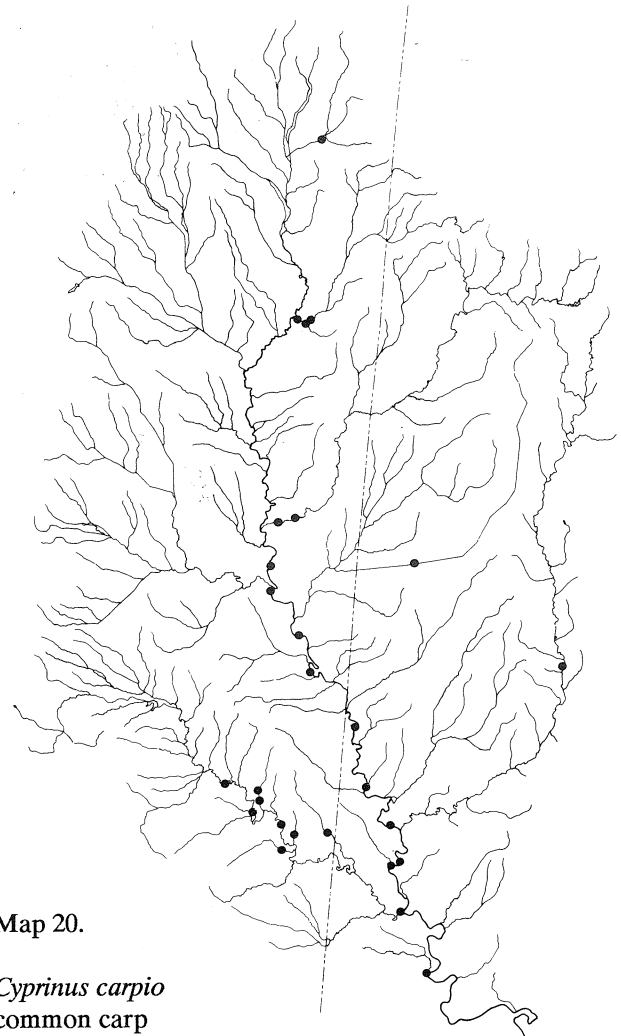
Cyprinella venusta
blacktail shiner

Cyprinus carpio Linnaeus

common carp

The common carp, a native of Asia, was introduced into Europe about 600 years ago, and into the United States in 1831 according to Smallwood and Smallwood (1929). Common carp have increased greatly due to the favorable habitat provided by the TTW. The common carp spawns by broadcasting eggs over submerged rooted vegetation, logs, or debris. It is likely that, in the future, we will see more commercial use of the species as its numbers increase.

27 Sites: 8, 19, 27-29, 31, 32, 39, 49, 93, 95, 96, 110, 122, 132, 138, 151, 156, 188, 194, 223, 231, 232, 307, 308, 310, and 343. Map 20.



Map 20.

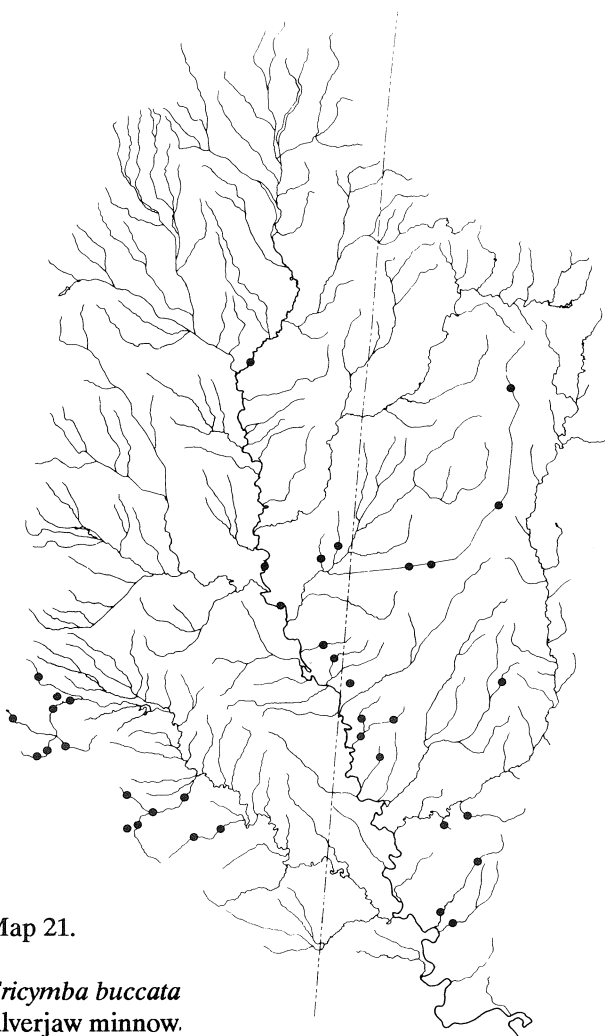
Cyprinus carpio
common carp

***Ericymba buccata* Cope**

silverjaw minnow

The silverjaw minnow is limited to streams with shifting sand substrates. The effect of the TTW on the species depends on the extent that the minnow's habitat is inundated.

37 Sites: 9-11, 36, 37, 56, 58, 60-62, 84-88, 90-92, 98, 100, 127, 133, 135-137, 144, 148, 154, 166, 168, 188-191, 193, 223, and 303. Map 21.



Map 21.

Ericymba buccata
silverjaw minnow.

Extrarius* sp cf *aestivalis

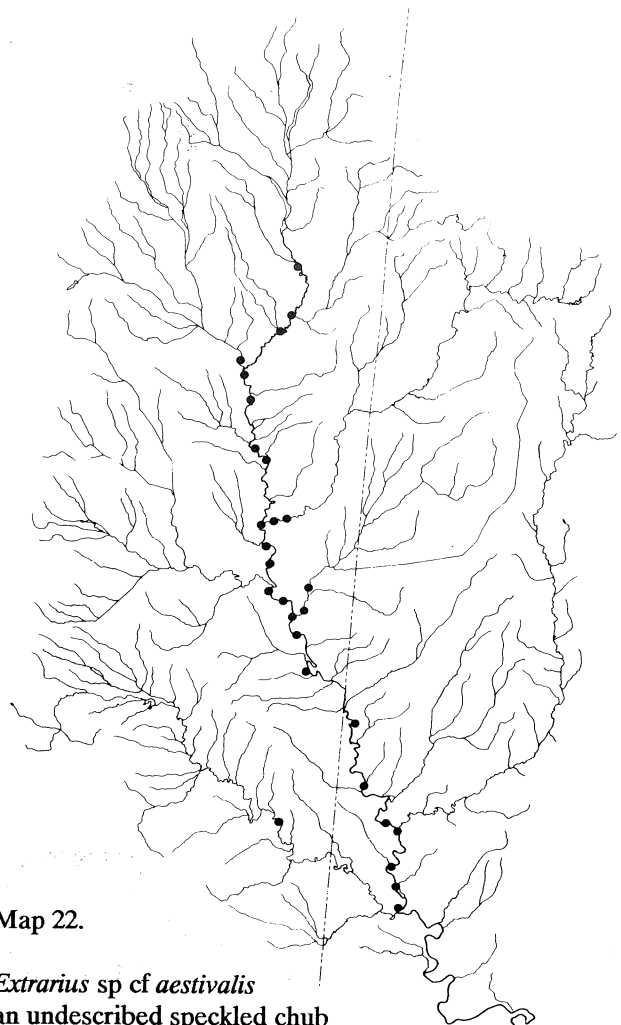
an undescribed chub

Hybopsis sp cf *aestivalis* (Girard)

Extrarius sp cf *aestivalis*.— Mayden, 1989

Carter Gilbert is revising the *aestivalis* complex. He recognizes two physiographically-separated species in Mobile basin. Above the Fall Line, the complex is characterized by having 1,4-4,1 pharyngeal teeth, dorsal fin farther back, shorter snout, scales crossing posterior part of belly, and a darker and more heavily speckled body. The species below the Fall Line has 0,4-4,0 pharyngeal teeth, dorsal fin farther forward, longer snout, scales not crossing posterior part of belly, and lighter in color. It is highly likely that only the latter species occurs in the upper Tombigbee. The habitat of the speckled chub is sand or fine gravel in the current of channels of large streams. Spawning occurs in deep, swift water, and the eggs develop rapidly as they drift in the stream current (Bottrell, 1964). This chub is severely jeopardized by the TTW; however, there is some indication that it is moving into the large tributaries of the upper Tombigbee.

28 Sites: 29, 93-95, 97, 122, 132, 138, 151, 156-158, 163, 193, 194, 223, 224, 229-231, 270, 276, 284, 287, 288, 304, 306, and 322. Map 22.



Map 22.

Extrarius sp cf *aestivalis*
an undescribed speckled chub

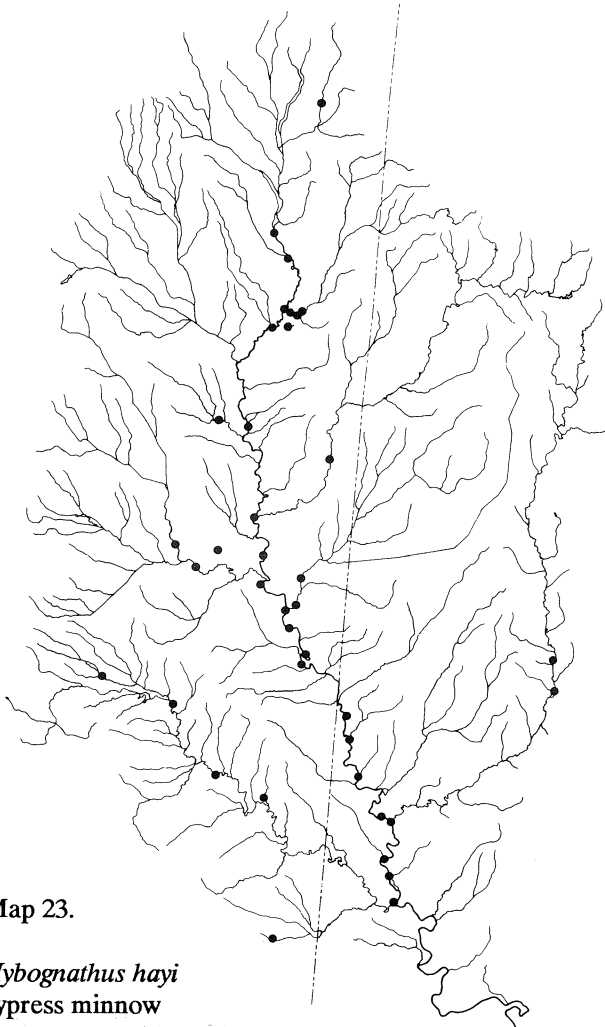
Hybognathus hayi Jordan

cypress minnow

The habitat of the cypress minnow is sluggish pools and backwaters of low-gradient portions of medium and large rivers of the Coastal Plain. *Hybognathus hayi* sometimes is difficult to distinguish from *H. nuchalis*; aid in their identification is provided by Fingerman and Suttikus (1961) and Burr and Mayden (1982a). Preliminary indications are that the TTW has drastically affected the occurrence and abundance of *H. hayi* in the upper Tombigbee (Boschung, 1987).

39 Sites: 17, 30, 49, 73, 78, 93-95, 97, 106, 110, 122, 132, 134, 138, 151, 153, 156-158, 163, 194, 202, 203, 210, 223, 229, 239, 279, 282, 304-308, 310, 322, 325, and 346.

Map 23.



Map 23.

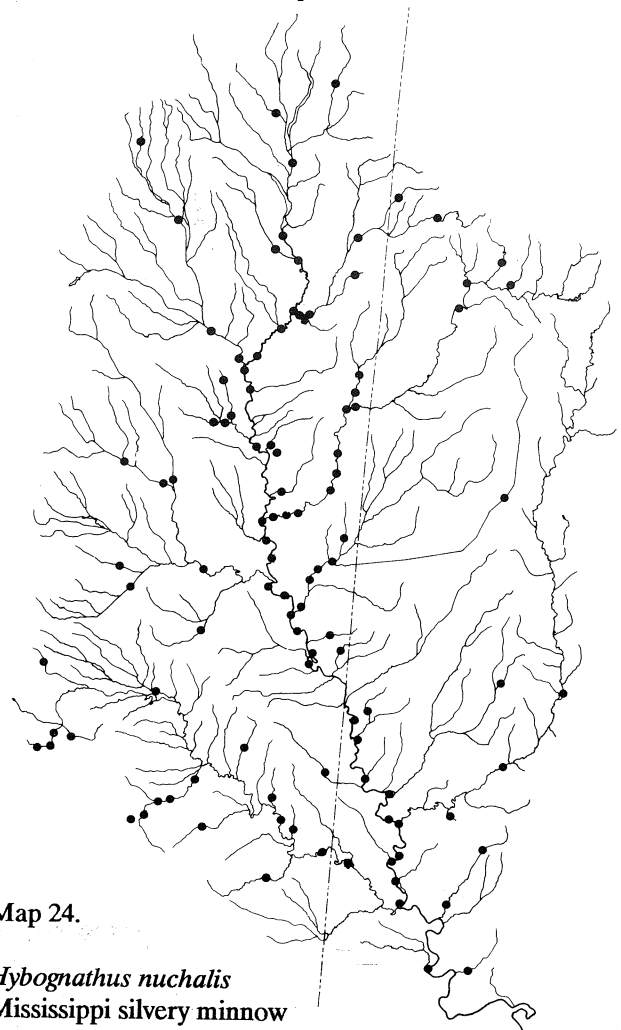
Hybognathus hayi
cypress minnow

Hybognathus nuchalis Agassiz

Mississippi silvery minnow

The habitat is similar to that of *H. hayi*, but *H. nuchalis* is less tolerant of turbid waters, and it occupies small streams as well as the large ones (compare maps 23 and 24). This minnow has declined greatly in numbers or disappeared entirely from several large areas, such as parts of the upper Missouri (Pflieger, 1975; Becker, 1983), southern Ohio (Trautman, 1957), and the Tennessee River (Etnier et al., 1979). The role of the large rivers and streams in the life cycle of *H. nuchalis* is not known. Preliminary studies (Boschung, 1987) indicate that the TTW has adversely affected the distribution and abundance of *H. nuchalis* in the upper Tombigbee.

107 Sites: 4, 8, 10, 11, 21, 22, 25, 28-30, 37, 43, 56-58, 61, 62, 75, 84, 88-91, 93-98, 101, 106, 122, 126, 129, 131, 132, 134, 136, 138, 148, 151, 153, 154, 156-158, 163, 164, 167, 168, 190, 193, 194, 200, 203, 204, 205, 211, 212, 215, 223, 224, 229, 230-232, 235, 237, 239, 241, 243, 244, 250, 257-259, 261, 267, 271, 272, 276-280, 284, 287-289, 297, 299, 303, 304, 306-308, 310, 311, 316, 318, 321-323, 325, and 335-347. Map 24.



Map 24.

Hybognathus nuchalis
Mississippi silvery minnow

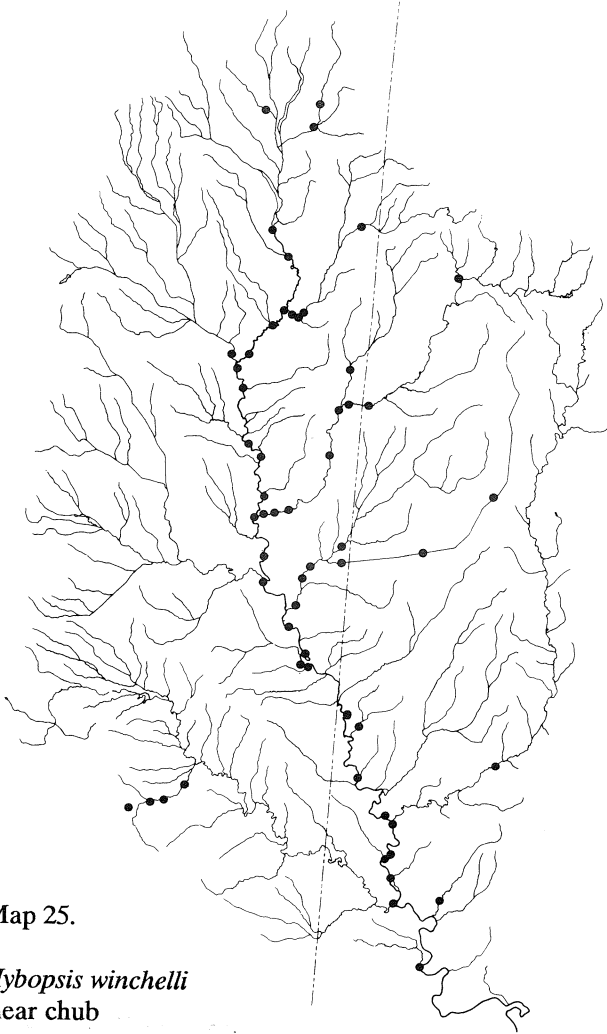
Hybopsis winchelli (Girard) clear chub

Hybopsis amblops (Rafinesque)

Hybopsis winchelli.— Clemmer, 1971.— Clemmer, 1980

Considered for many years a subspecies of *H. amblops*, the clear chub was elevated to species status by Clemmer (1971). Generally, it is in major streams and large tributaries over mixed sand and silt of pools adjacent to riffles (Clemmer, 1980) The clear chub will be affected by the TTW to the extent that its habitat is inundated.

57 Sites: 8, 10, 56-58, 62, 93-97, 101, 122, 132, 135, 138, 150, 151, 153, 156, 158, 163, 164, 170, 180, 189, 190, 194, 223, 229-232, 239, 241, 244, 250, 251, 258, 266, 270, 276, 284, 287, 288, 303, 304, 306-308, 310, 317, 322, 325, 336, 343, and 346. Map 25.



Map 25.

Hybopsis winchelli
clear chub

Hybopsis sp cf longirostris an undescribed shiner

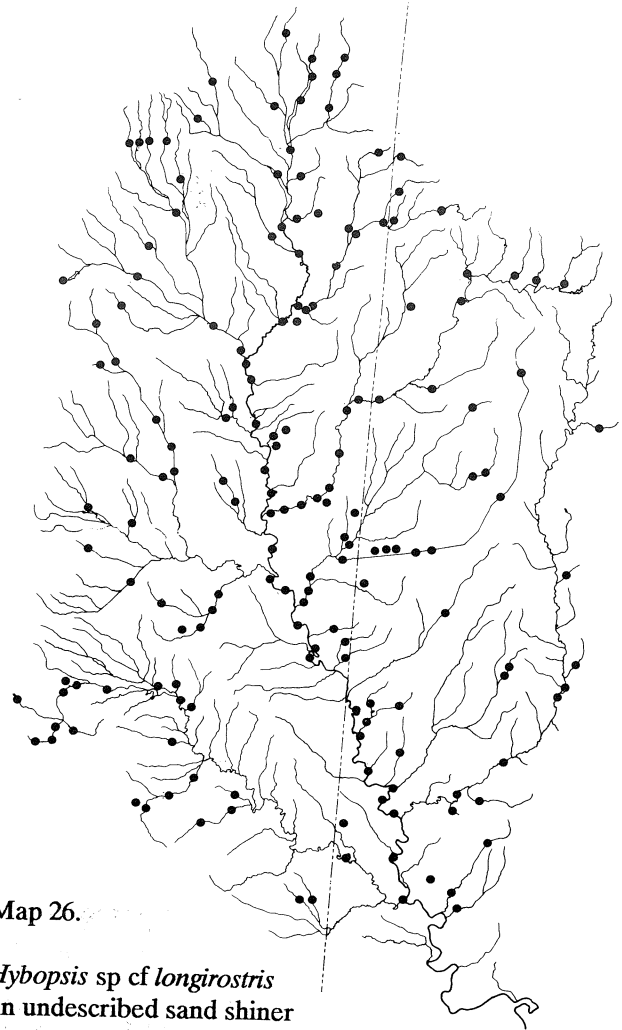
Albumops longirostris Hay

Notropis longirostris (Hay)

Hybopsis sp cf *longirostris*.— Mayden, 1989

This shiner is limited in distribution to Mobile basin (mostly below the Fall Line); Yellow Creek, a tributary to the Tennessee in northeast Mississippi; and the headwaters of Hatchie River in north Mississippi. It has 0,4-4,0 pharyngeal teeth and 7 anal rays. The habitat is clear, small to moderate size streams with clean sand or sand and gravel substrates. It is rarely found above the Fall Line, but not uncommon in the main river pre-TTW.

169 Sites: 9-12, 14, 15, 18, 21, 34, 36, 37, 56, 57, 61, 62, 67, 70, 73-75, 82, 85-93, 95, 98-101, 105, 106, 108, 112, 116, 122, 123, 126, 127, 129, 130, 132, 134-138, 140, 147, 148, 151, 153, 154, 156, 158, 161-163, 168-170, 175-177, 179, 183, 184, 186, 188-191, 193-197, 199-201, 204, 206, 207, 209, 211, 212, 215-219, 222, 223, 226, 227, 230-235, 239, 241, 247, 250, 251, 254, 257, 258, 261, 263, 265, 266, 268, 271-273, 277, 279, 282, 284, 287-291, 293, 295, 297-302, 304, 305, 307, 308, 310, 312-316, 318-323, 325-328, 330, 332, 334-336, 338-341, 346, 347, and 349. Map 26.



Map 26.

Hybopsis sp cf *longirostris*
an undescribed sand shiner

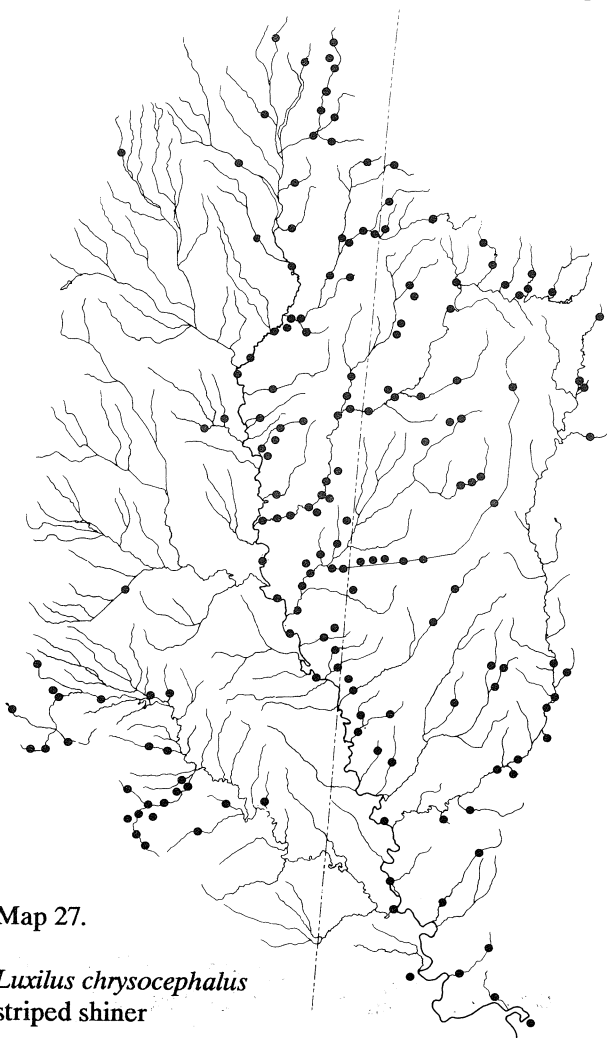
Luxilus chrysocephalus Rafinesque striped shiner

Notropis chrysocephalus (Rafinesque).— recent authors

Luxilus chrysocephalus.— Mayden, 1989

The striped shiner occurs in small to large streams, but typically in medium-sized, clear streams that are free of aquatic weeds and have alternating pools and riffles. Striped shiners spawn on gravel beds in riffles (Robert Jenkins, pers. comm.), or they may spawn over nests of *Se-motilus*, *Campostoma*, or *Nocomis*.

170 Sites: 1, 2, 4, 6, 7, 10, 11, 30, 34, 37, 54-64, 66, 67, 74, 75, 82, 84, 86-88, 90, 91-94, 98, 100-106, 108, 110, 116, 119-122, 124, 126-128, 130, 133, 135-137, 139, 140, 141, 144, 147-149, 154-156, 158, 162-164, 165, 166, 168, 169, 173-180, 183, 184, 186, 188-191, 193, 204, 223, 230-238, 241, 243, 244, 246-255, 257-265, 267, 271-275, 277, 280, 283, 285, 287, 298, 303-305, 307, 309-323, 326, 329, 334, 336, 338, 341, 343-347, 349, 351, and 352. Map 27.



Map 27.

Luxilus chrysocephalus
striped shiner

Lythrurus bellus (Hay) pretty shiner

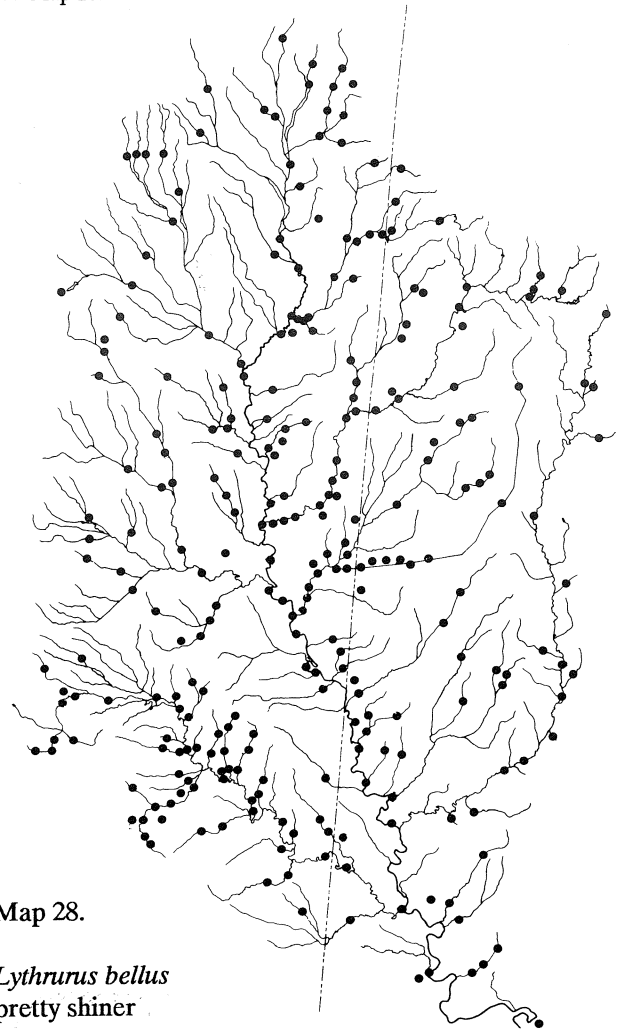
Minnilus bellus Hay. Type locality, Tombigbee River at Artesia and Macon, Mississippi.

Notropis bellus (Hay).— recent authors

Lythrurus bellus (Hay).— Mayden, 1989

The pretty shiner is the most common and ubiquitous fish in the upper Tombigbee, yet practically nothing is published regarding its biology. It is found outside Mobile basin only in Bear and Yellow creeks, tributaries to the Tennessee River. Snelson (1972) described a subspecies, *L. b. alegendus*, endemic to the upper Black Warrior system.

269 Sites: 1, 4-13, 15, 18-22, 24, 25, 27-29, 31, 32, 36, 37, 39, 40, 42-75, 79, 82, 84-91, 93, 98, 100, 101, 103, 104, 106, 108, 110-112, 114, 116, 119-122, 124-141, 144, 146-148, 150, 151, 154, 156-158, 161-166, 168-180, 182-184, 186, 188-191, 193, 194, 196, 197, 199-212, 215-218, 220, 221, 223, 226-239, 241, 243-253, 255-258, 262-267, 269, 271-275, 277-281, 283, 285, 287-291, 293, 295, 297-302, 304-323, 325, 327, 330, 332, 334-338, 340, 341, and 343-349. Map 28.



Map 28.

Lythrurus bellus
pretty shiner

Macrhybopsis storeriana (Kirtland)

silver chub

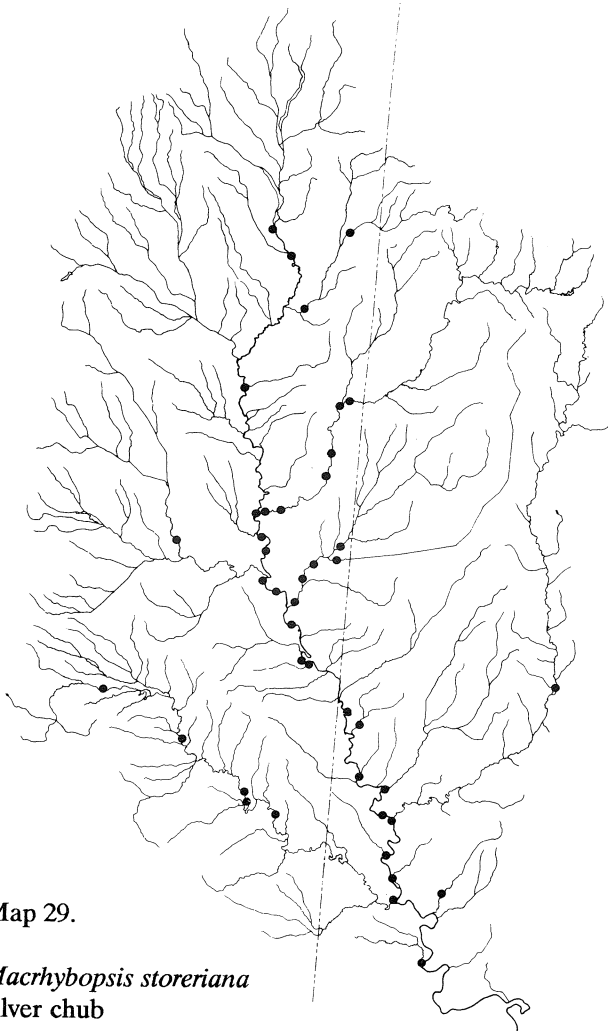
Rutilus storerianus Kirkland

Hybopsis storeriana (Kirkland).— recent authors

Macrhybopsis storeriana.— Mayden, 1989

The silver chub is a large stream fish that inhabits quiet pools and backwaters. Its drastic reduction in Gainesville and Aliceville pools (Boschung, 1987) may be attributable to difficulty in seining the pools and channels rather than an effect of the TTW.

42 Sites: 8, 10, 29, 39, 40, 68, 82, 93-95, 97, 106, 122, 129, 132, 135, 138, 150, 151, 156, 158, 163, 164, 170, 179, 193, 194, 210, 223, 224, 229-231, 237, 239, 241, 250, 284, 310, 316, 322, and 325. Map 29.



Map 29.

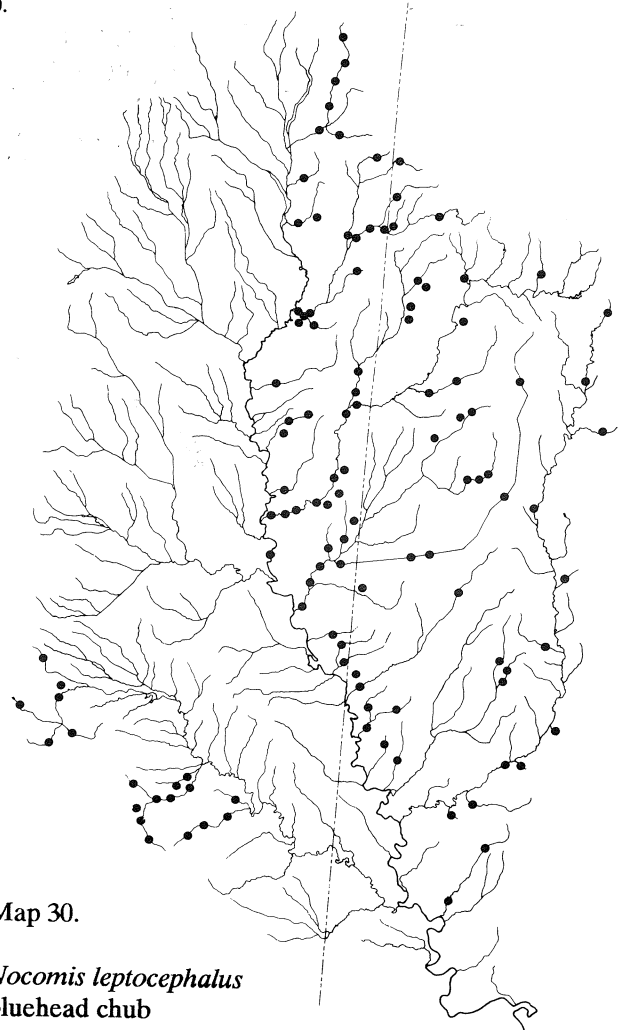
Macrhybopsis storeriana
silver chub

Nocomis leptocephalus (Girard)

bluehead chub

The bluehead chub occurs in clear to turbid, small to medium-sized streams, and over substrates varying from bedrock to mud. For spawning, it requires gravel riffles (Jenkins and Lachner, 1980). Their upland distribution removes them, for the most part, from adverse affects of the TTW.

115 Sites: 10, 11, 34, 36-38, 54-58, 60, 62-64, 84, 86-88, 90, 92, 98, 100-102, 104, 111, 112, 114, 116, 120, 121, 126-128, 130, 133, 135-137, 139, 141, 144, 147, 148, 154, 158, 162-164, 166, 168, 169, 173-179, 188-191, 223, 230-234, 236-238, 241, 243, 244, 246-250, 254-256, 258, 264, 267, 273-275, 285, 305, 307-311, 313-321, 326, 327, 334, 343, 344, 346, 347, 349, and 352. Map 30.



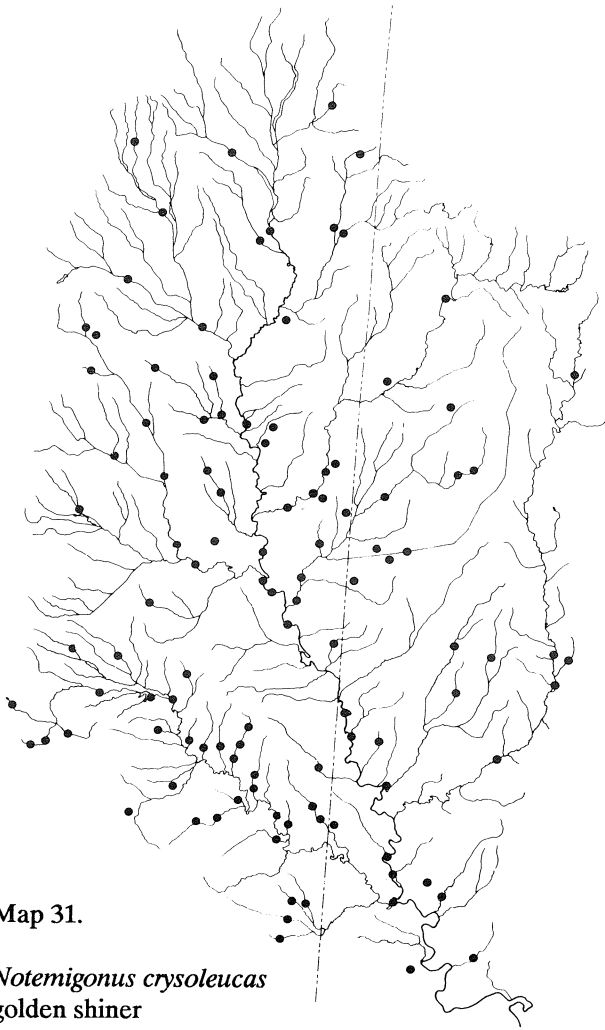
Map 30.

Nocomis leptocephalus
bluehead chub

Notemigonus crysoleucas (Mitchill) golden shiner

The golden shiner is a generalized and opportunistic species without any fastidious life requirements; therefore, its fate in the upper Tombigbee should be little affected by the TTW.

110 Sites: 5, 7, 10, 12, 14-20, 27-29, 31-33, 36, 37, 42-44, 46, 51, 55, 62, 65, 69, 72, 73, 77, 79, 80, 82, 88, 90-95, 101, 106, 108, 110, 120, 124, 125, 128, 129, 131, 133, 134, 138, 148, 156, 158, 162, 163, 166, 169, 171, 174, 176, 177, 186-188, 193, 194, 199, 202, 203, 209, 210, 212, 215, 217, 218, 221-223, 227, 228, 232-234, 237, 238, 253, 257, 271, 273, 277, 278, 280-282, 289, 291, 297, 300, 305, 313, 314, 316, 323, 325, 329, and 345. Map 31.



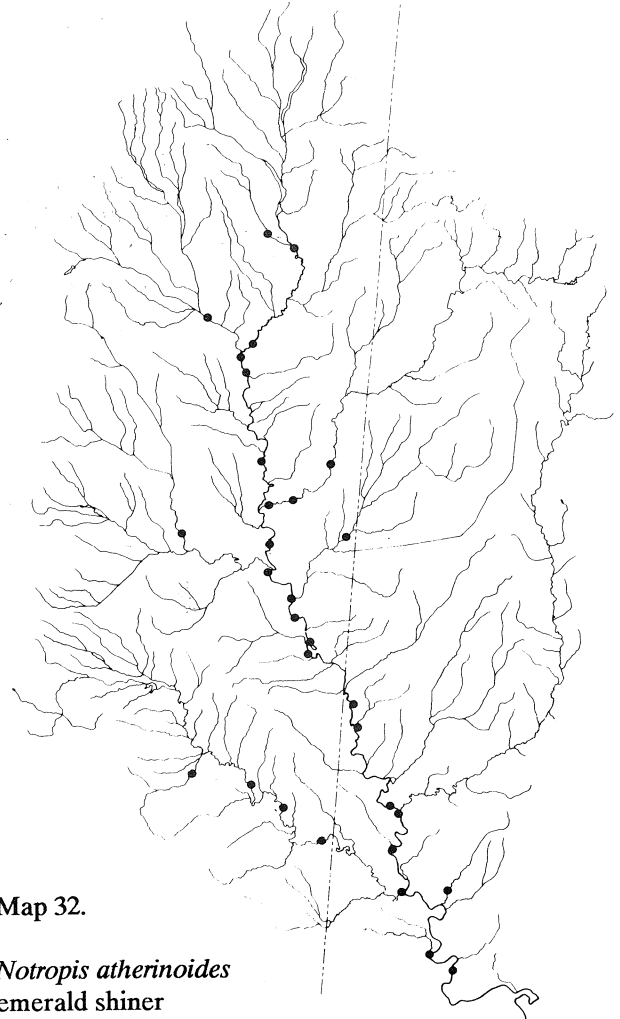
Map 31.

Notemigonus crysoleucas
golden shiner

Notropis atherinoides Rafinesque emerald shiner

In the upper Tombigbee of pre-TTW days, the emerald shiner was virtually limited to open channels of the river and the largest tributaries. Indications are that the species will be adversely affected by the TTW.

31 Sites: 3, 8, 10, 22, 29, 40, 56, 93, 95, 97, 122, 134, 138, 151, 153, 156, 157, 170, 194, 210, 223, 230, 232, 237, 268, 284, 287, 289, 303, 322, and 323. Map 32.



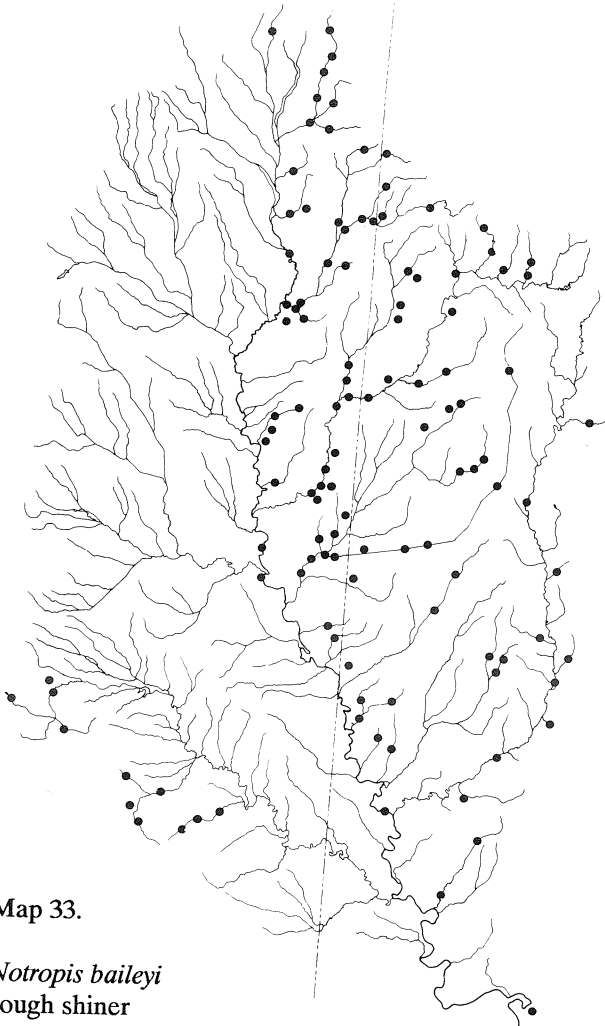
Map 32.

Notropis atherinoides
emerald shiner

Notropis baileyi Suttkus and Raney **rough shiner**

The habitat of the rough shiner — small, moderate- to high-gradient streams with clean sand or gravel substrates — is, for the most part, unaffected by the TTW.

115 Sites: 1, 10, 11, 36-38, 57, 60, 62, 63, 86-88, 92, 100, 101, 104, 106, 108, 111, 112, 114, 116, 122, 126-128, 130, 133, 135-137, 140, 141, 144, 148, 154, 162-164, 166-169, 173-179, 183, 188-191, 194, 223, 233-238, 241, 243, 244, 246-251, 253-256, 258-261, 263, 264, 267, 271, 273-275, 305, 307-322, 326, 327, 334, 338, 343-347, 349, and 352. Map 33.



Map 33.

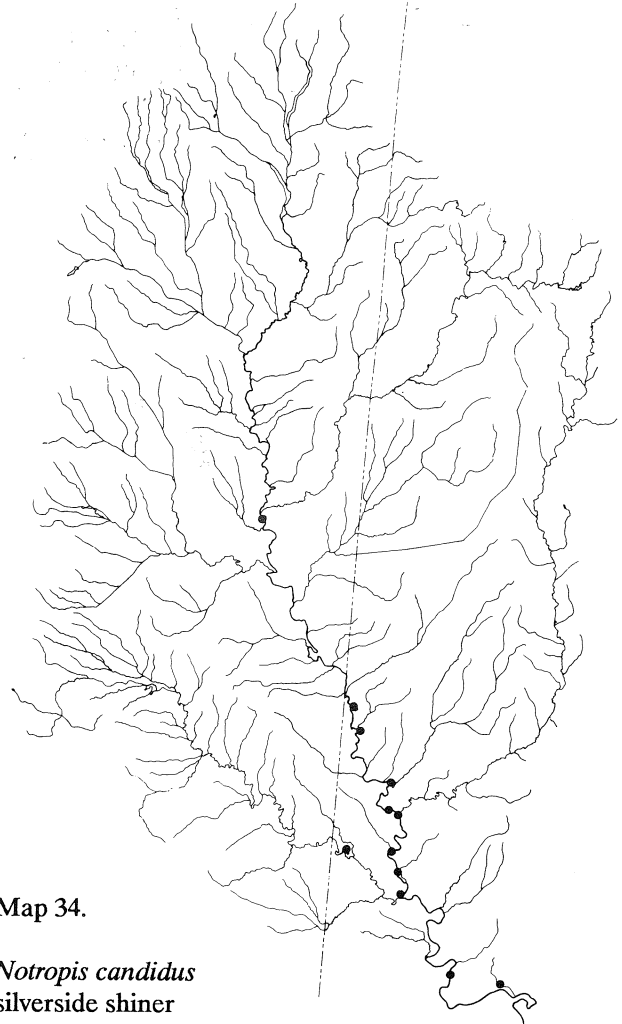
Notropis baileyi
rough shiner

Notropis candidus Suttkus **silverside shiner**

Notropis shumardi (Girard), in part.

Schultz (1969) reported the "silverband shiner" from the Tombigbee River about 1.5 mi below the mouth of Buttahatchee River (Site 225). Silverband shiner is the common name for *N. shumardi*, the name then given to what is now known in Mobile basin as *N. candidus* (Suttkus, 1980). This record extends the known range of the silverside shiner well into Mississippi. *Notropis candidus* inhabits the main channel of rivers and the lower sections of large tributaries. Its success in the upper Tombigbee is in jeopardy.

12 Sites: 2, 3, 21, 93-95, 97, 122, 129, 134, 138, and 225. Map 34.



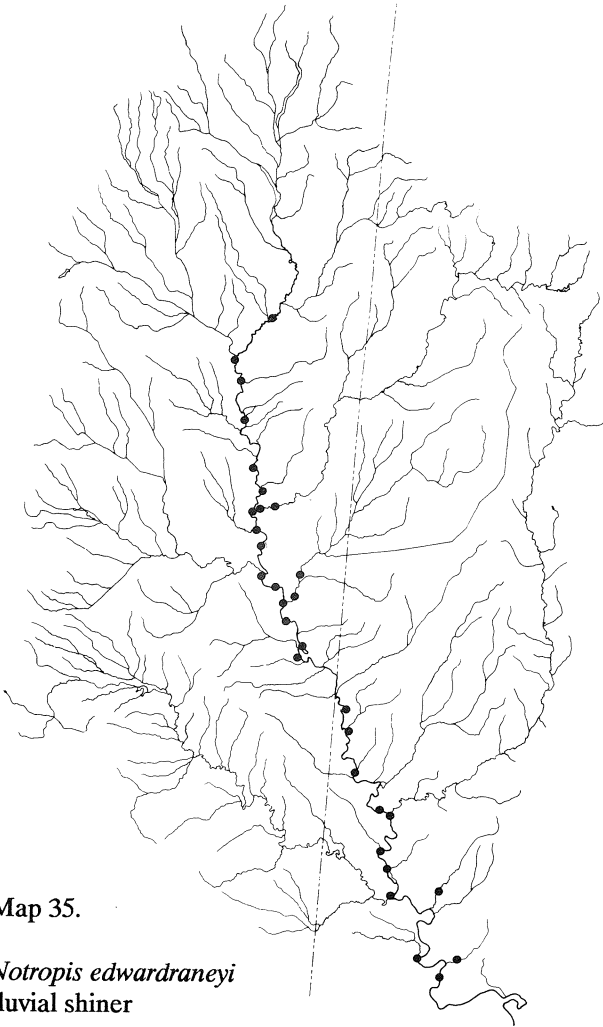
Map 34.

Notropis candidus
silverside shiner

Notropis edwardraneyi Suttkus and Clemmer
fluvial shiner

The fluvial shiner inhabits main river channels where there is moderate current and substrate of sand, gravel, and silt. It may be able to tolerate some modifications imposed by the TTW if ample accumulations of sand are available for spawning sites; however, their numbers greatly decreased in Gainesville and Aliceville pools (Boschung, 1987).

31 Sites: 3, 4, 8, 10, 93-95, 97, 122, 132, 134, 138, 151, 153, 156-158, 163, 193, 194, 223, 224, 229-231, 266, 268, 282, 284, 287, and 304. Map 35.



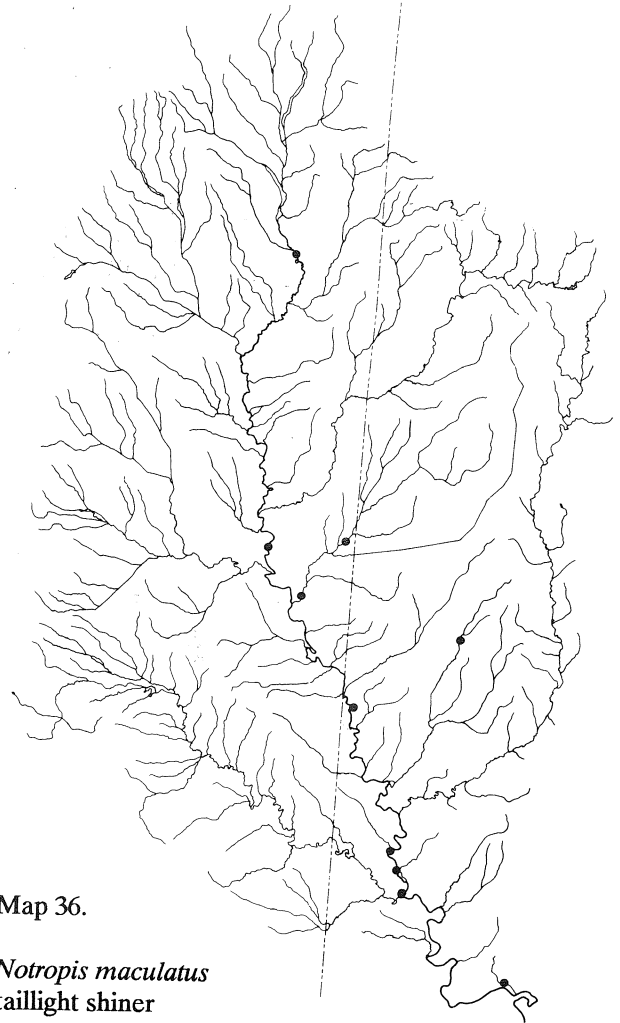
Map 35.

Notropis edwardraneyi
 fluvial shiner

Notropis maculatus (Hay)
taillight shiner

The taillight shiner inhabits sluggish, soft-bottomed streams, oxbow lakes, and swamps that have accumulations of debris and aquatic vegetation. It will be affected by the TTW to the extent that its habitat is inundated.

10 Sites: 2, 93-95, 125, 138, 158, 170, 223, and 322. Map 36.



Map 36.

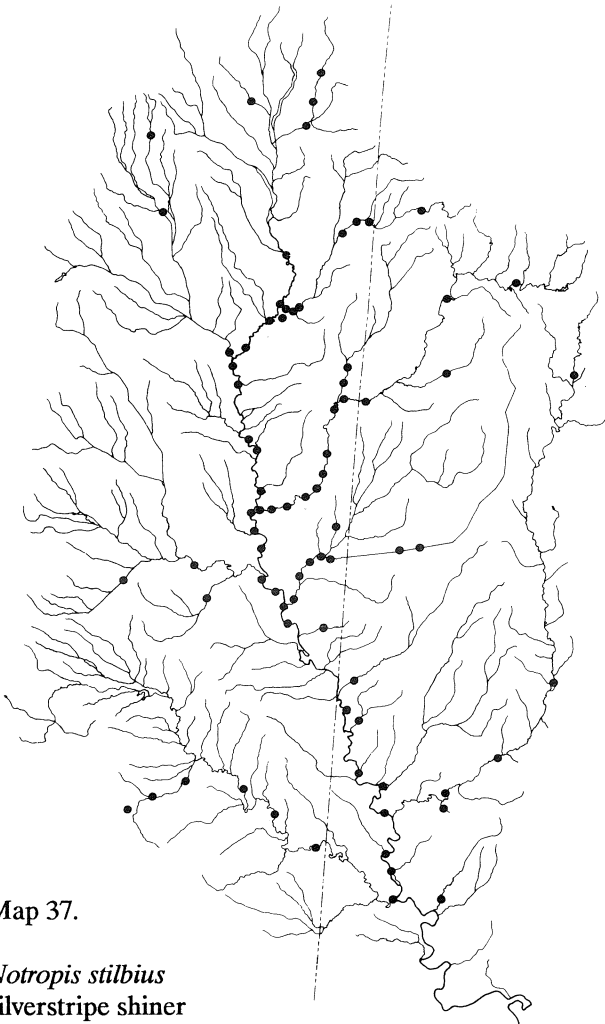
Notropis maculatus
 taillight shiner

Notropis stilbius (Jordan)

silverstripe shiner

The silverstripe shiner typically inhabits moderately flowing streams with gravel substrates. It also occupies slow running water over sand and is often associated with *Justicia*. The TTW should have little effect on its status in the upper Tombigbee.

79 Sites: 10, 22, 29, 40, 56, 58, 62, 93-95, 98, 99, 101, 106, 120, 122, 129, 132, 135, 138, 139, 154, 156-158, 163, 164, 167, 168, 179, 188, 189, 193, 194, 196, 203, 204, 223, 224, 229-232, 234, 235, 237, 239, 241, 243, 244, 250, 251, 255, 257, 262, 266, 270, 276, 284, 287, 288, 297, 302-308, 310, 316, 317, 319, 321, 322, 337, 343, 346, and 347. Map 37.



Map 37.

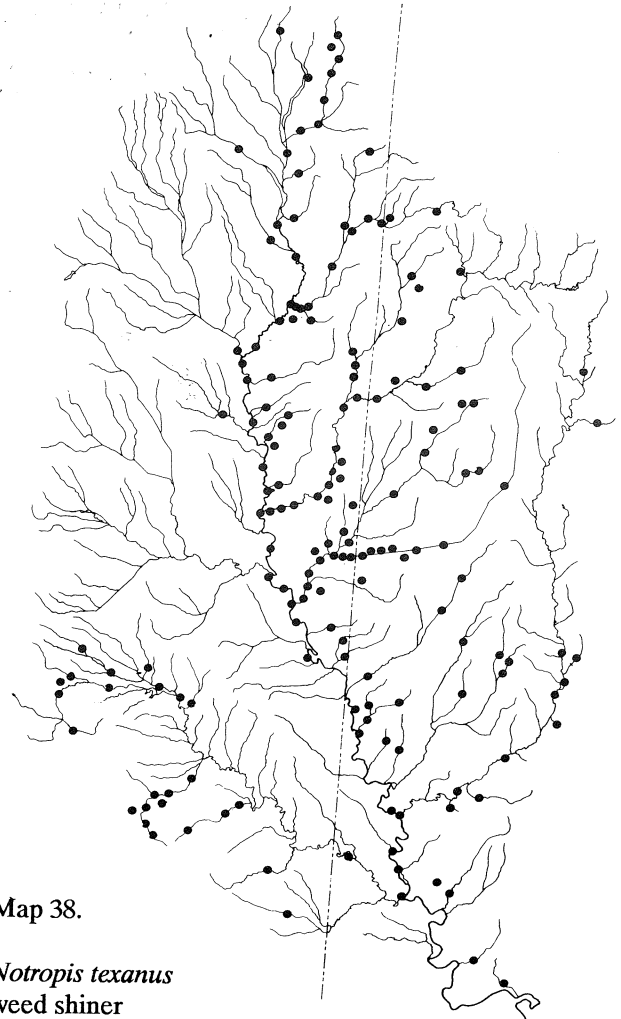
Notropis stilbius
silverstripe shiner

Notropis texanus (Girard)

weed shiner

The weed shiner typically inhabits low-gradient streams with sand bottoms or the slow moving portions of high-gradient streams (Heins and Davis, 1984). It has an affinity for aquatic vegetation, especially *Justicia*, and it feeds on plant debris and filamentous algae. Preliminary studies (Boschung, 1987) indicate that its success in the upper Tombigbee will be enhanced by the TTW.

168 Sites: 2, 4, 10, 12, 16, 21, 25, 35, 36, 38, 56-59, 61-64, 70, 73, 75, 76, 78, 79, 82, 83, 86-88, 93-95, 97-101, 104-106, 108, 110, 116, 120, 122, 124-128, 130, 133-141, 147, 148, 151, 154, 156-159, 161-177, 179, 180, 182-184, 186-190, 193, 194, 223, 229-239, 241, 243-246, 248-251, 253-255, 258, 266-268, 271-274, 279, 282-285, 287, 288, 303-310, 312-314, 316, 317, 319-323, 325, 326, 329, 334, 335, 338, 340, 342, 343, 346, 347, 349, 351, and 352. Map 38.



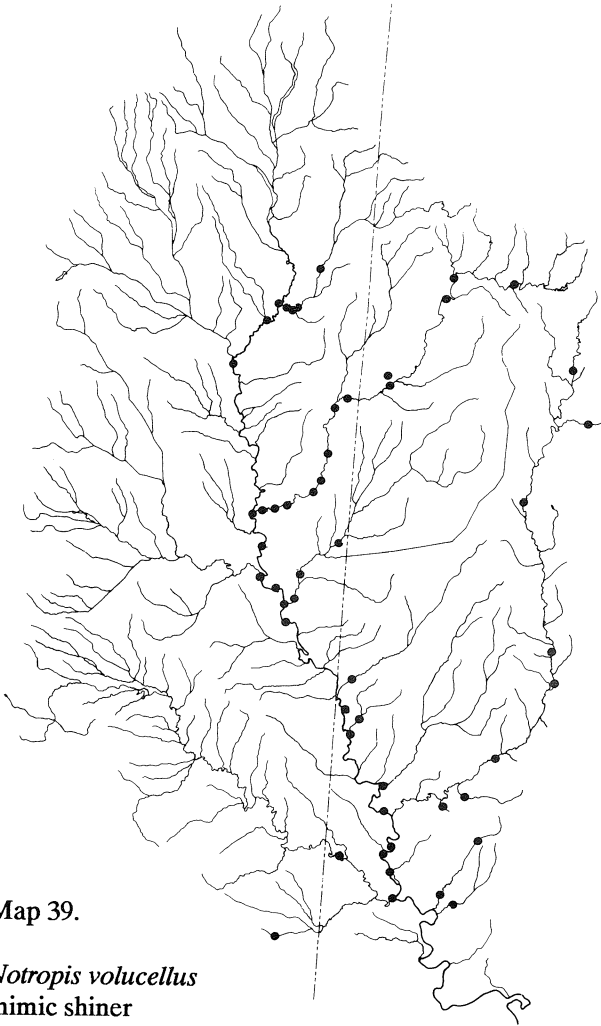
Map 38.

Notropis texanus
weed shiner

Notropis volucellus (Cope) **mimic shiner**

The mimic shiner inhabits clear streams ranging in size from medium-sized creeks to large rivers. Its omnivorous feeding habits and simple reproductive strategy protect it somewhat against adversity imposed by the TTW.

52 Sites: 9-11, 17, 21, 93-96, 98, 100, 101, 106, 110, 114, 116, 120, 122, 129, 134, 135, 138, 139, 156-158, 163, 170, 193, 194, 223, 229-232, 234, 235, 239, 241, 250, 252, 253, 257, 258, 262, 287, 304, 306-308, 310, and 312. Map 39.



Map 39.

Notropis volucellus
mimic shiner

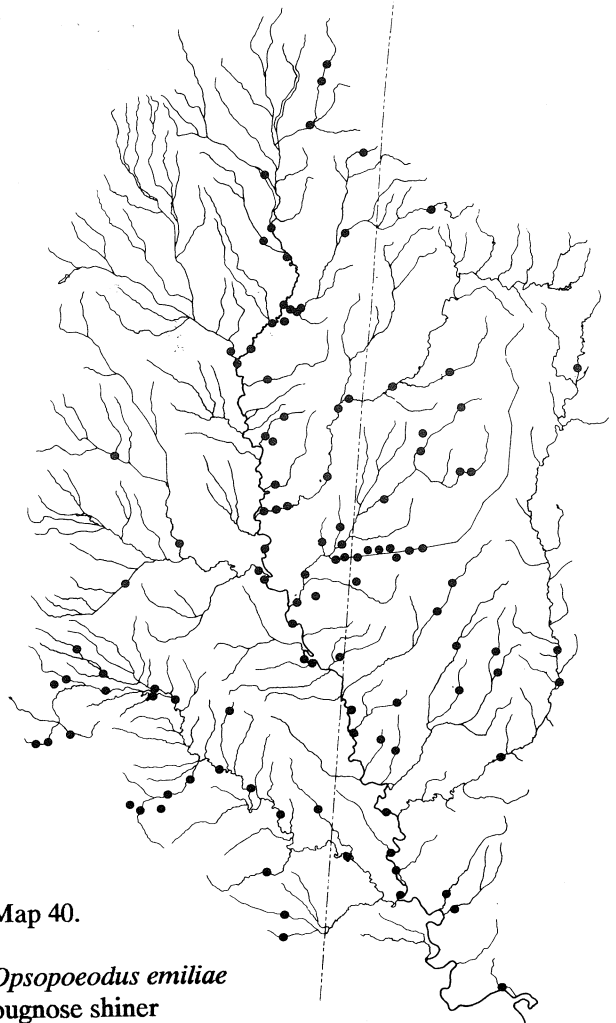
Opsopoeodus emiliae Hay **pugnose minnow**

Notropis emiliae (Hay).— recent authors

Type locality Horsehunter Creek, near Noxubee River, Macon, Mississippi.

The pugnose minnow occurs in clear, sluggish, often weedy water (Gilbert, 1980) to sluggish, turbid streams with muddy a bottom and no vegetation (Becker, 1983). It occupies a variety of habitats in the upper Tombigbee, and there are no indications that the species will be adversely affected by the TTW.

111 Sites: 2, 9, 10, 16, 17, 20, 21, 25, 29, 40, 48, 49, 56, 57, 59, 61, 62, 73, 75, 78-80, 82, 83, 86, 88, 90, 91, 93-95, 101, 106, 110, 120, 122, 124-126, 128, 130, 133, 134, 137, 138, 140, 141, 147, 150, 151, 156, 158, 159, 162, 163, 166, 168, 170-173, 175-177, 179, 180, 182-184, 186-189, 194, 195, 204, 210, 212, 223, 230-232, 237, 241, 250, 252, 255, 267, 271, 272, 274, 285, 287, 288, 303-308, 310, 314, 316, 321-323, 325, 328, 343, 347, and 349. Map 40.



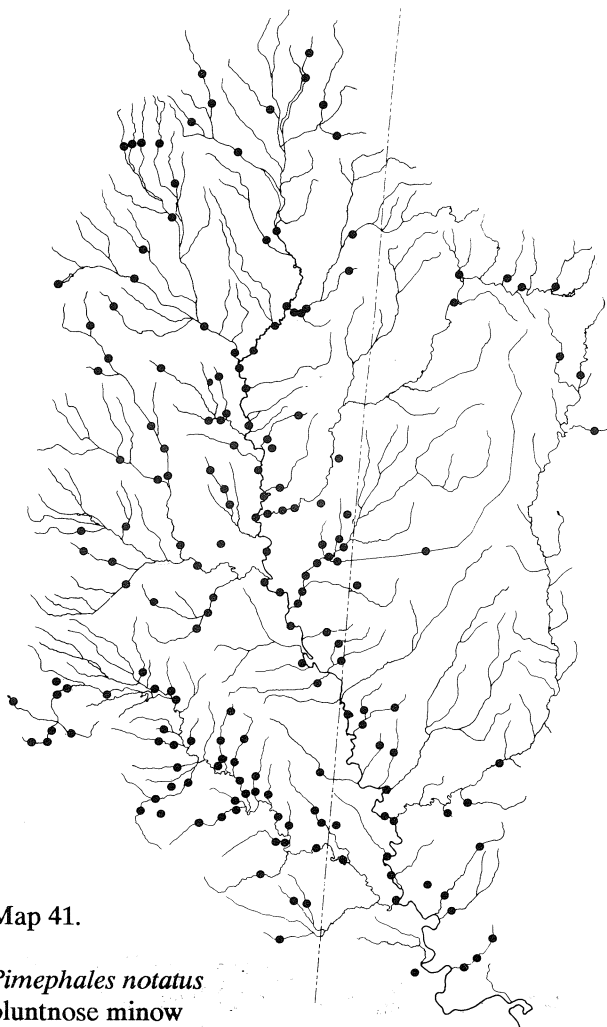
Map 40.

Opsopoeodus emiliae
pugnose shiner

***Pimephales notatus* (Rafinesque) bluntnose minnow**

The bluntnose minnow is often found in large schools in low-gradient rivers and streams. It should continue to be successful outside the main channel and canals of the upper Tombigbee. Although the bluntnose minnow is tolerant of a rather high degree of turbidity, its habit of making cavity nests under flat objects would be severely hampered by heavy siltation.

189 Sites: 4-7, 9-12, 14, 15, 17-22, 25-33, 35-37, 40-43, 45, 46, 48, 50, 53, 55, 56, 58, 59, 61, 65-67, 69, 73-76, 82, 85-95, 97, 98, 100, 101, 116, 118, 120, 122, 129, 130, 131, 133, 135-138, 146-148, 151, 154, 156, 158, 161-164, 166-170, 179, 189, 193, 194, 196, 197, 199, 200, 202-208, 210-212, 215-220, 222, 223, 226-233, 238, 257, 258, 261, 262, 265-269, 271, 272, 275, 277-282, 284, 287-291, 293, 295, 297-304, 306-308, 310, 311, 316, 323, 325, 329-332, 336, 340, 341, 344, and 346. Map 41.



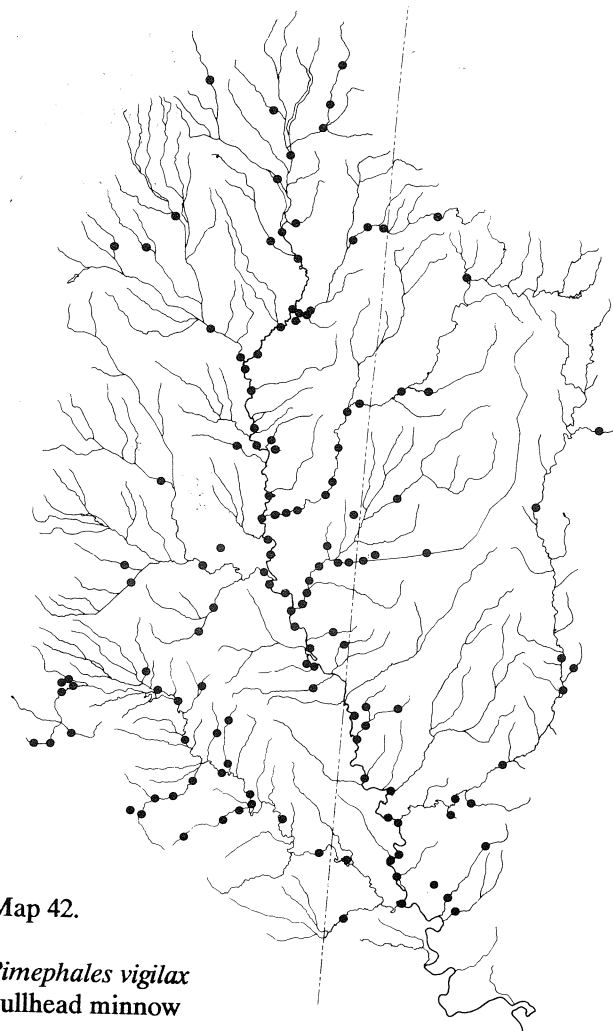
Map 41.

Pimephales notatus
bluntnose minnow

***Pimephales vigilax* (Baird and Girard) bullhead minnow**

The habitat and reproductive strategy of *Pimephales vigilax* are similar to that of *P. notatus*, but the former prefers high-gradient portions of streams.

135 Sites: 9-13, 21, 22, 29, 35, 36, 38-40, 45, 47, 49, 52, 56-58, 61, 62, 68, 71, 73, 75, 76, 83, 85-88, 90, 91, 93-101, 106, 108, 110, 114, 116, 122, 129, 132, 134, 135-138, 146, 148, 150, 151, 153, 154, 156-158, 161, 163, 164, 166, 169, 171, 179, 180, 182, 183, 189, 193-195, 197, 200, 202-205, 211, 223, 224, 229-232, 234, 235, 239, 241, 250, 252, 254, 258, 266, 269, 271, 272, 276, 282, 284, 287-289, 294, 295, 297, 303-308, 310, 316, 317, 319, 321-323, 325, 326, 328, 332, 335, 336, 343, 346, and 349. Map 42.



Map 42.

Pimephales vigilax
bullhead minnow

Pteronotropis welaka (Evermann and Kendall)

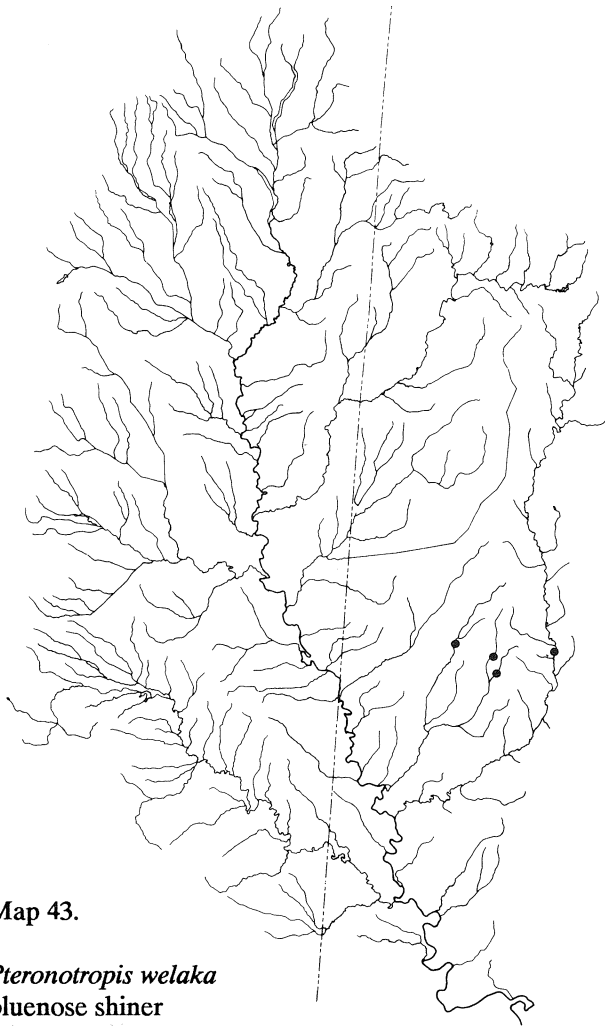
bluenose shiner

Notropis welaka Evermann and Kendall.— recent authors

Pteronotropis welaka.— Mayden, 1989

Fannye Cook (1959) poetically wrote in reference to the bluenose shiner, "It inhabits weedy streams with beds of deep dark fetid mire." Gilbert (1980) suggests that its spotty distribution and uncommon occurrence may be due to difficulty in sampling suitable habitat. I also suggest that the uncommonness of *P. welaka* results from draining swamps throughout much of its former range.

4 Sites: 110, 125, 126, and 128. Map 43.



Map 43.

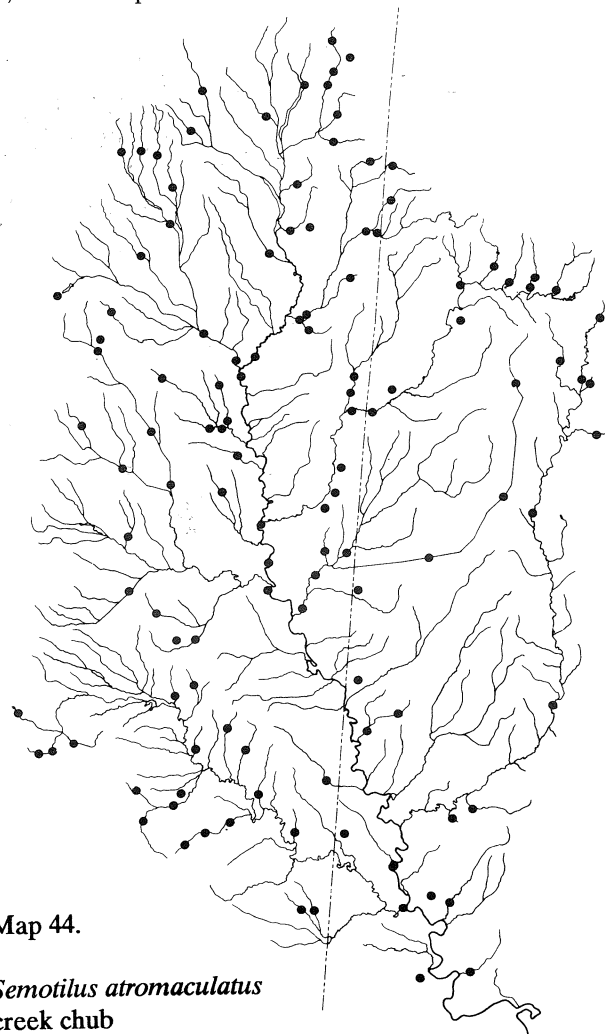
Pteronotropis welaka
bluenose shiner

Semotilus atromaculatus (Mitchill)

creek chub

The creek chub occurs in small clear streams. It will be affected by the TTW to the extent that small first and second order streams are inundated.

119 Sites: 4, 7, 10, 12, 14, 15, 18, 28, 31, 36-38, 43, 47, 55, 57, 60, 61, 65, 72, 74, 88, 90, 91-93, 95, 98, 100, 105, 114, 116, 118-121, 131, 135, 137, 144, 158, 162, 164, 166, 170, 189-191, 194, 199-201, 204, 207, 212, 213, 215, 217, 220, 221, 223, 227, 229, 233, 236, 238, 243, 244, 250, 251, 253, 256, 258, 259, 261, 263-265, 269, 277-281, 287-290, 293, 295, 297, 298, 300-303, 308-311, 314, 315, 317-319, 323, 326, 327, 330, 332, 334, 336, 340, 344, 345, 347, 349, 350, and 352. Map 44.



Map 44.

Semotilus atromaculatus
creek chub

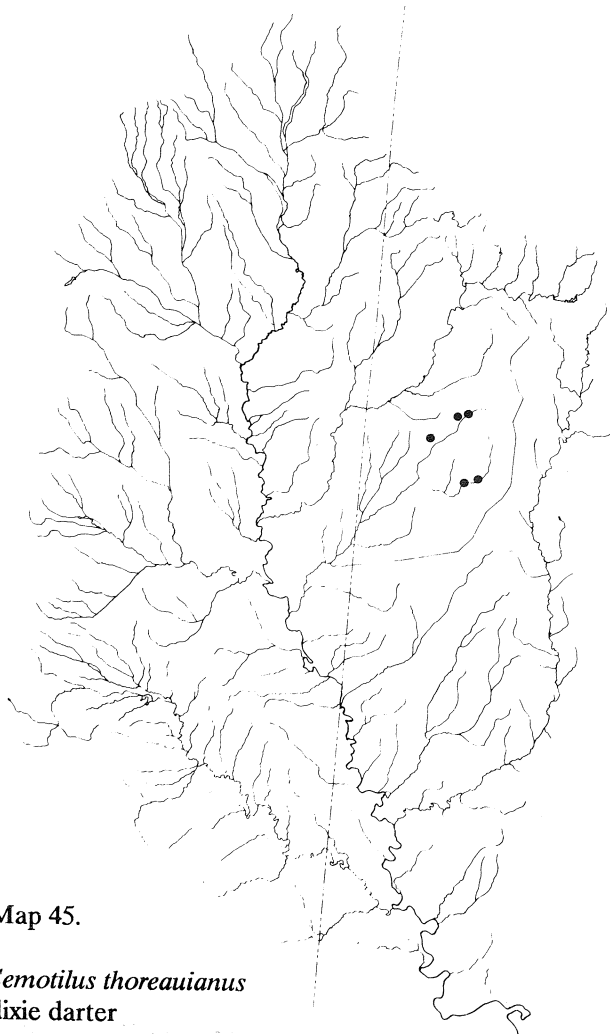
Semotilus thoreauianus Jordan

dixie chub

Semotilus atromaculatus (Mitchill), in part

Semotilus thoreauianus was recently exhumed from the synonymy of *S. atromaculatus* by Johnston and Ramsey (in press). The species is, to my knowledge, limited in the upper Tombigbee to the upper Luxapallila River system. It is distinguished from *S. atromaculatus* by its smaller but more robust body form, a wider and more diffused lateral stripe, dorsal-fin origin behind pelvic-fin origin, larger scales, fewer head tubercles, absence of tubercles from the opercle and first dorsal fin ray and caudal fins, and yellow fins of breeding males.

5 Sites: 173, 174, 175, 176, and 177. Map 45.



Map 45.

Semotilus thoreauianus
dixie darter

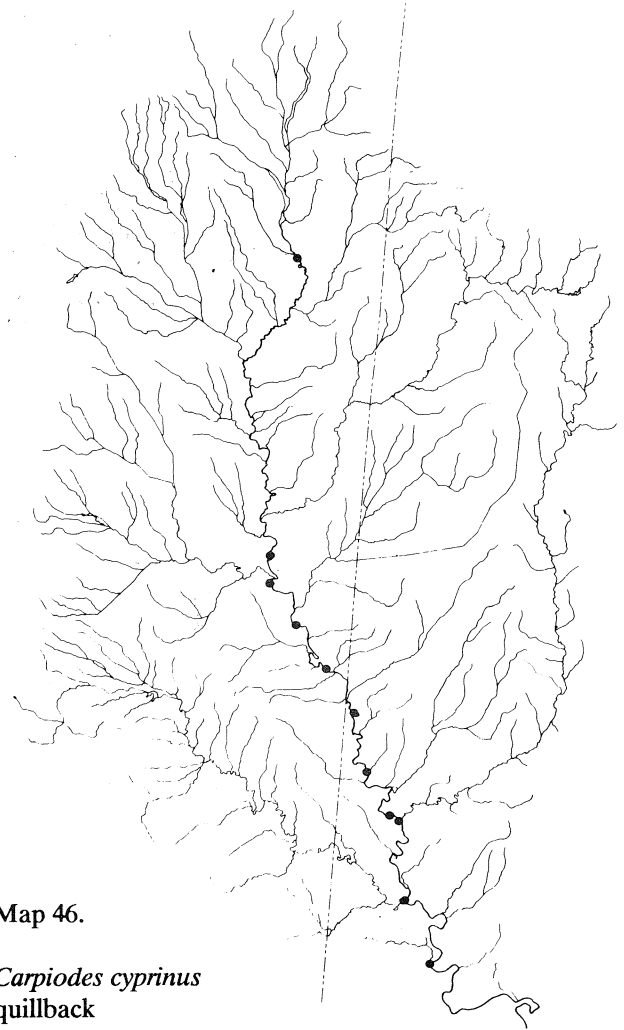
CATOSTOMIDAE — suckers

Carpiodes cyprinus (Lesueur)

quillback

Apparently, the quillback has never been common in the upper Tombigbee. Pre- and post-TTW specimens were from the main river channel.

11 Sites: 8, 93, 97, 122, 132, 138, 149, 156, 194, 223, and 322. Map 46.



Map 46.

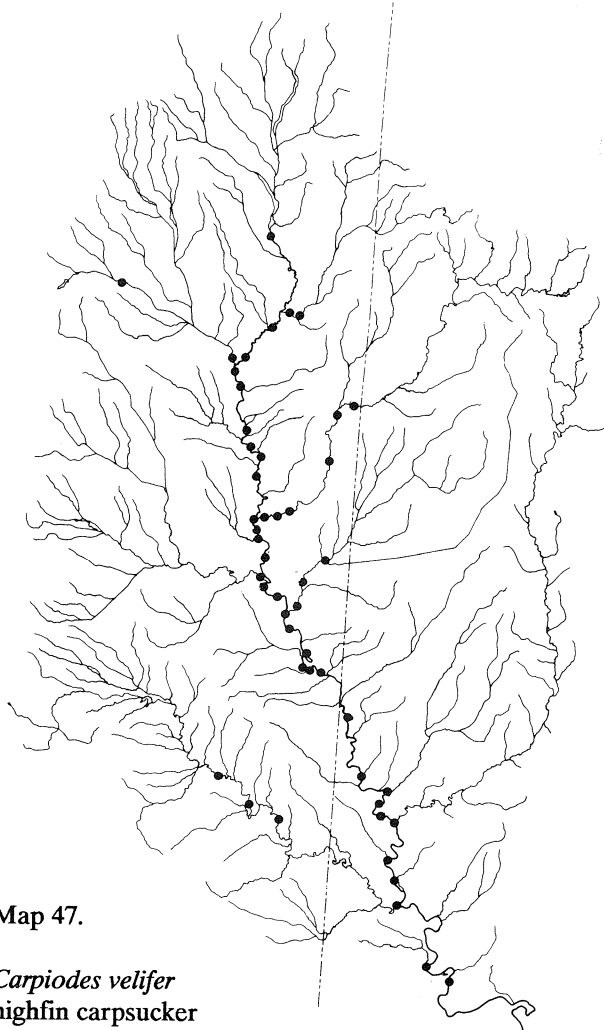
Carpiodes cyprinus
quillback

***Carpiodes velifer* (Rafinesque)**

highfin carpsucker

In preimpoundment collections, the frequency of occurrence of *Carpiodes velifer* was somewhat greater than that of *C. cyrinus*. This trend is expected to reverse in that *C. velifer* appears to be less tolerant of siltation and turbidity (Pflieger, 1975).

49 Sites: 3, 8, 29, 39, 49, 93-95, 97, 122, 123, 129, 132, 138, 149, 150, 151, 153, 156-158, 163, 167, 193-195, 223-225, 229-232, 239, 241, 250, 268, 270, 276, 282, 284, 287, 288, 291, 303, 304, 307, 310, and 325. Map 47.



Map 47.

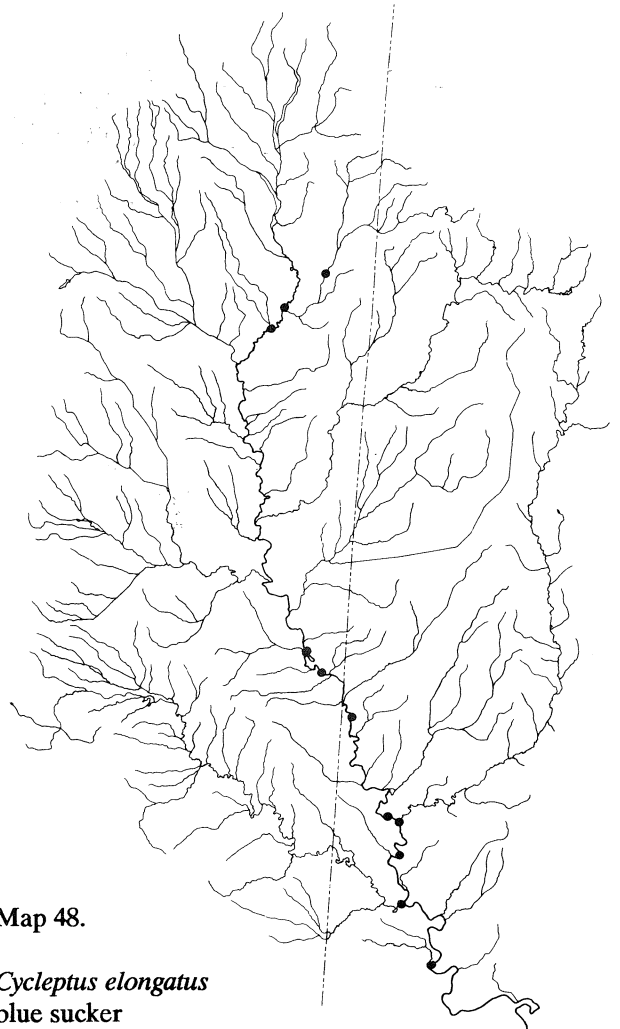
Carpiodes velifer
highfin carpsucker

***Cycleptus elongatus* (Lesueur)**

blue sucker

The blue sucker is limited to large rivers and lower parts of major tributaries. It usually inhabits channels and flowing pools with moderate current, but seems to do well in some artificial impoundments (Gilbert, 1980). Apparently, it has never been abundant in the upper Tombigbee and its future appears jeopardized. Dams that block spawning migrations (Coker, 1930; Cross, 1967) and decrease current velocity, permitting sediments, are unfavorable to the blue sucker (Pflieger, 1975).

11 Sites: 8, 93, 96, 97, 122, 138, 149, 153, 304, 306, and 312. Map 48.



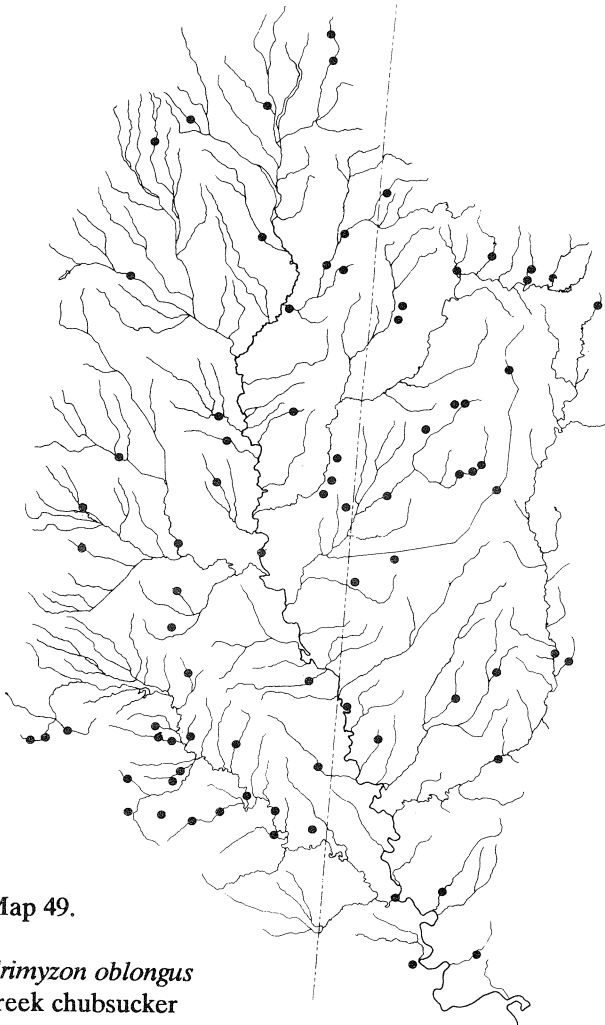
Map 48.

Cycleptus elongatus
blue sucker

***Erimyzon oblongus* (Mitchill) creek chubsucker**

The effect of the TTW on the creek chubsucker depends on the extent that first and second order tributaries are inundated. Adults are usually not taken in large series and the young are typically in headwater rivulets. Populations apparently decline in streams subject to siltation (Wall and Gilbert, 1980).

79 Sites: 5, 7, 10, 23, 27, 29, 36, 37, 39, 43, 54, 55, 59, 60, 62, 65-67, 69, 72, 88, 90, 91, 93, 101, 108, 110, 121, 124, 126, 131, 133, 138, 146, 162, 169, 171, 173-178, 187, 190, 191, 198, 201, 206, 209, 210, 212, 223, 227, 233, 236, 238, 246, 247, 258, 259, 263-265, 269, 275, 279, 291, 302, 307, 311, 312, 316, 318, 323, 330, 336, 349, and 352. Map 49.



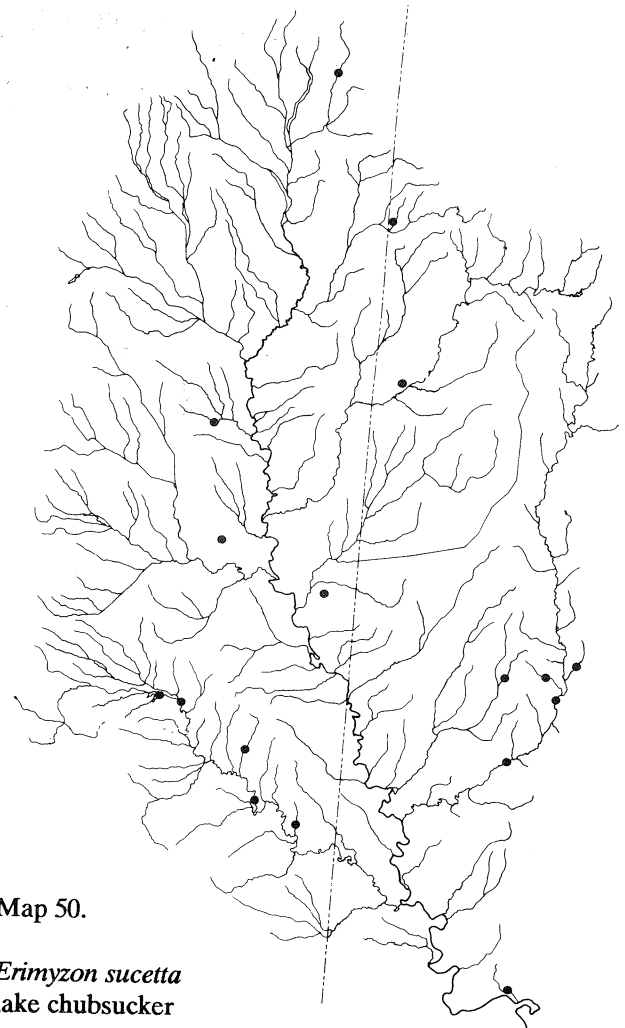
Map 49.

Erimyzon oblongus
creek chubsucker

***Erimyzon sucetta* (Lacepede) lake chubsucker**

The habitat of *E. sucetta* — ponds, oxbows, sloughs, impoundments, and waters of no flow that are clear and have bottoms of sand and silt mixed with organic debris, and aquatic vegetation (Wall and Gilbert, 1980) — is such that the species may meet with some success in the silt free areas of impoundments associated with the TTW. However, we are reminded that the species has decreased in number or disappeared entirely over much of its range. It is extirpated in Iowa (Harland and Speaker, 1956), and has decreased in Illinois (Smith, 1979), Missouri (Pfleiger, 1975), and Ohio (Trautman, 1957).

17 Sites: 2, 28, 39, 43, 73, 80, 101, 105, 107, 108, 126, 159, 202, 253, 280, 320, and 347. Map 50.



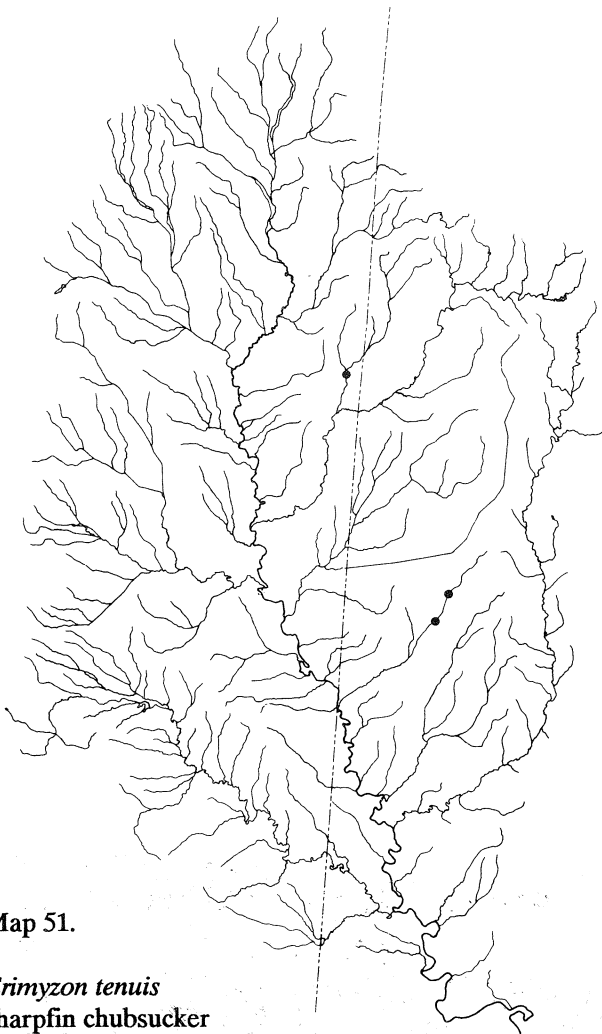
Map 50.

Erimyzon sucetta
lake chubsucker

***Erimyzon tenuis* (Agassiz) sharpfin chubsucker**

To my knowledge, only one adult specimen of *Erimyzon tenuis* is known from the upper Tombigbee. It is a tuberculate specimen (MSU 1860) collected in the Buttahatchee, near the confluence with Sipseey Creek (Site 241). Previous reports of *E. tenuis* in the upper Tombigbee (Boschung, 1973, 1984, 1987; Caldwell, 1969) are based on difficult-to-identify juvenile specimens, which are easily confused with either *E. sucetta* or *E. oblongus*. However, *E. tenuis* does occur in Coal Fire Creek. One small specimen, 28 mm SL, was collected at Site 140 (UAIC 2184) in 1966; and 10 specimens (21-61 mm SL) were collected at Site 141 (UAIC 4410.08) in 1972. The presence of *E. tenuis* is one of several examples of typically coastal species having somewhat disjunct, small populations in the upper Coastal Plain. Other examples are the swamp darter, *Etheostoma fusiforme*, and the bluenose shiner, *Pteronotropis welaka*.

3 Sites : 140, 141, and 241. Map 51.



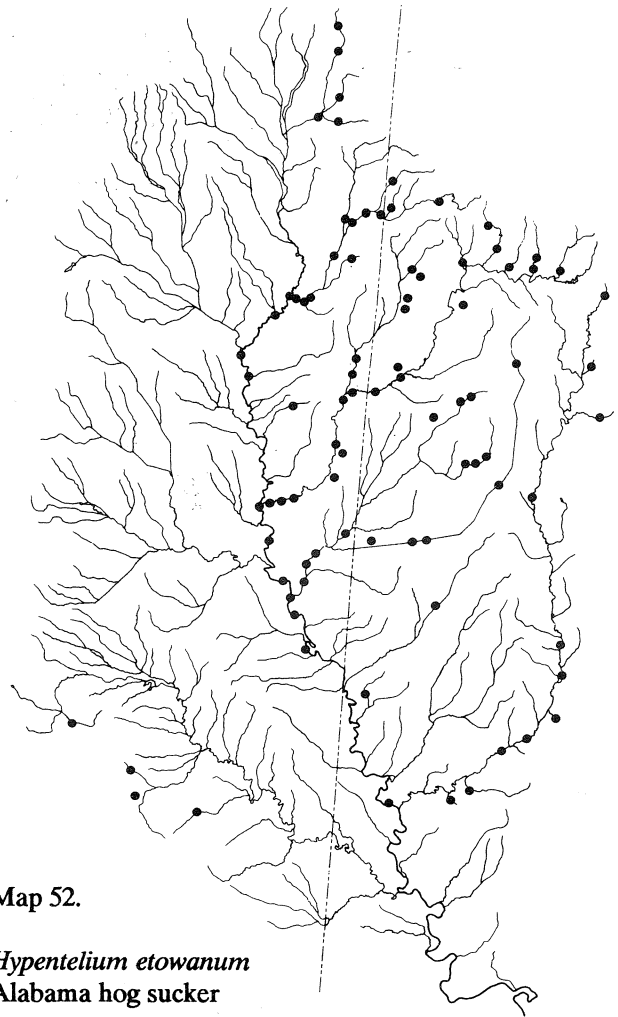
Map 51.

Erimyzon tenuis
sharpfin chubsucker

***Hypentelium etowanum* (Jordan) Alabama hog sucker**

The Alabama hog sucker inhabits clear, high-gradient streams. The effect of the TTW on its success depends on the extent that the habitat is inundated. In the upper Tombigbee, its preferred substrate of bedrock and gravel is virtually limited to the Fall Line Hills.

86 Sites: 37, 60, 62, 88, 98, 100, 101, 103, 104, 106, 110, 114, 116, 119, 121, 122, 136, 140, 151, 156, 157, 161, 163, 164, 170, 173-178, 183, 188-191, 193, 223, 229-232, 236, 238, 239, 241, 243, 244, 246-253, 256, 258-261, 263-265, 274, 284, 287, 304, 306-308, 310-313, 316-321, 343-345, 349, and 352. Map 52.



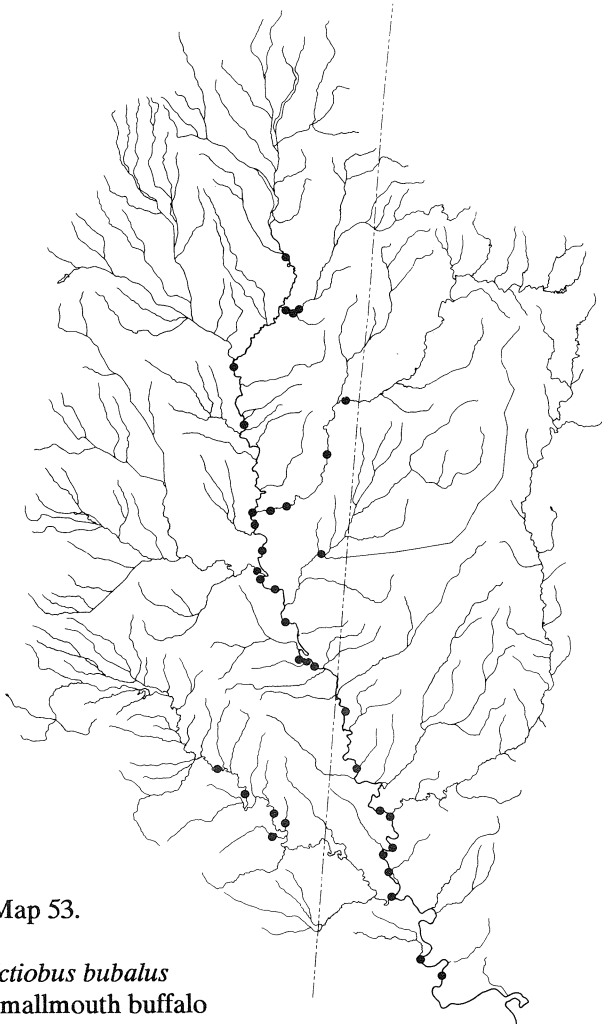
Map 52.

Hypentelium etowanum
Alabama hog sucker

***Ictiobus bubalus* (Rafinesque) smallmouth buffalo**

Gill and trammel net collections in Gainesville and Aliceville pools in 1983 revealed a 2500 percent increase in number of smallmouth buffalo over approximately the same number of sets in the river in 1972 (Boschung, 1987).

36 Sites: 3, 8, 27-29, 39, 49, 93-97, 122, 132, 138, 149-151, 156, 167, 193-195, 223, 225, 229, 231, 232, 239, 250, 282, 287, 307, 308, 310, and 322. Map 53.



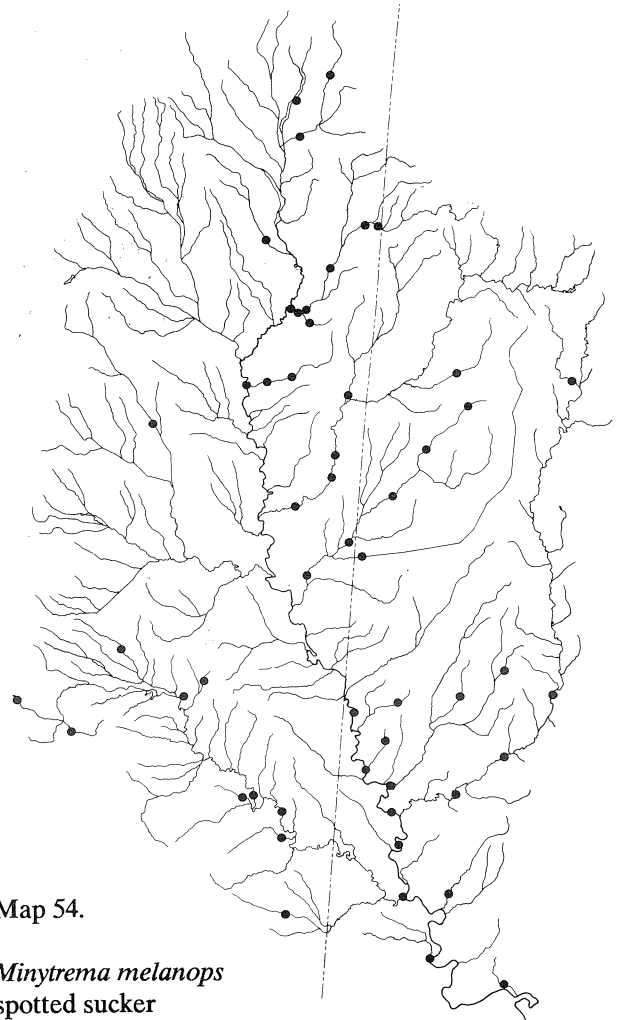
Map 53.

Ictiobus bubalus
smallmouth buffalo

***Minytrema melanops* (Rafinesque) spotted sucker**

The effects of the TTW on the spotted sucker depends on the extent that the habitat is inundated.

53 Sites: 2, 8, 10, 16, 27, 29, 33, 39, 71, 73, 77, 88, 92, 93, 96, 99, 101, 105, 117, 122, 124, 126, 129, 132, 133, 137, 138, 163, 170-172, 175, 182, 217, 232, 237, 239, 242, 255, 284-286, 307-310, 312, 317, 319, 323, 339, 342, and 347. Map 54.



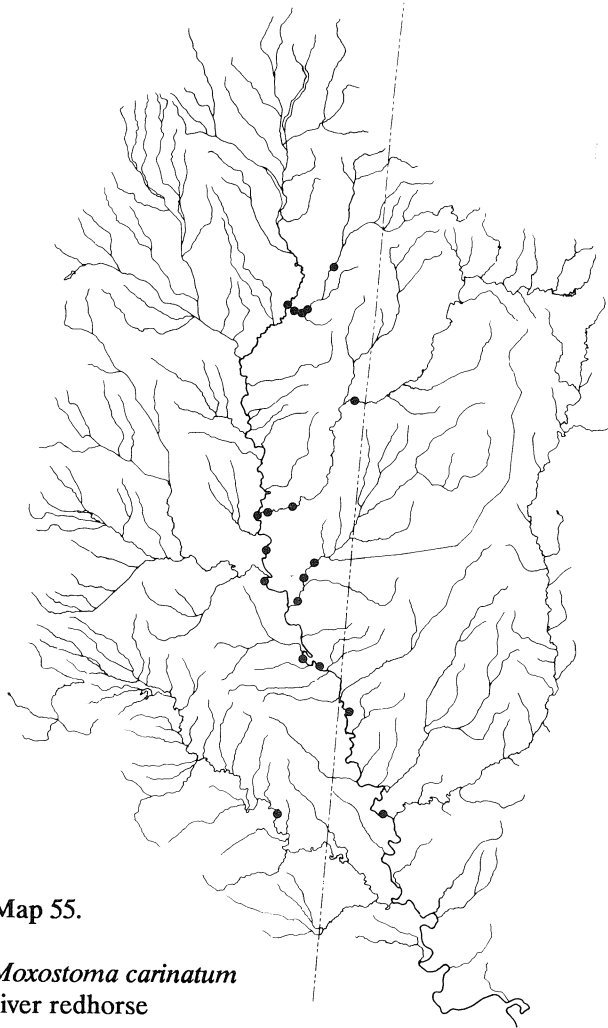
Map 54.

Minytrema melanops
spotted sucker

***Moxostoma carinatum* (Cope) river redhorse**

The future of the river redhorse in the upper Tombigbee will depend on the success the fish has in using the larger tributaries for spawning. Impoundment of rivers and the subsequent loss of gravel shoals contribute significantly to the demise of the river redhorse (Hackney et al., 1968).

19 Sites: 29, 122, 138, 149, 151, 158, 163, 164, 194, 223, 229, 230, 232, 250, 306-308, 310, and 312. Map 55.



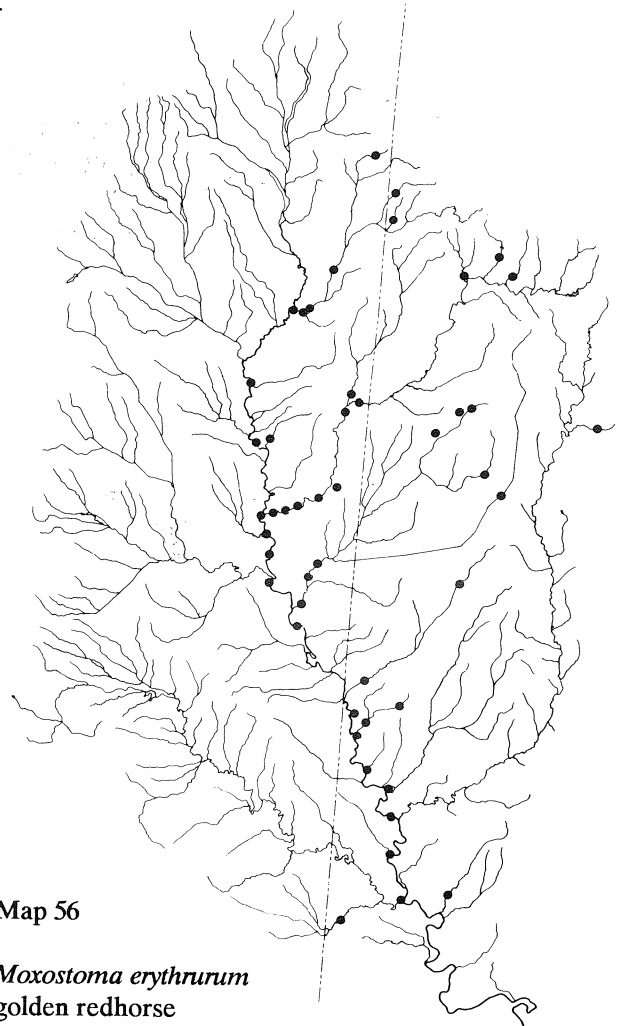
Map 55.

Moxostoma carinatum
river redhorse

***Moxostoma erythrurum* (Rafinesque) golden redhorse**

The golden redhorse inhabits a variety of habitats, but typically pools in river bends with undercut banks and fallen trees, where vegetation is almost nonexistent (Becker, 1983). It ascends medium-sized rivers and small streams to spawn on gravel riffles.

48 Sites: 10, 13, 93, 95, 116, 122, 129, 132, 134, 135, 137-139, 141, 156, 158, 163, 164, 173-175, 177, 190, 194, 223, 224, 229-232, 234, 236, 241, 242, 250, 258, 259, 261, 272, 276, 284, 307, 308, 310, 312, 314, 318, and 320. Map 56.



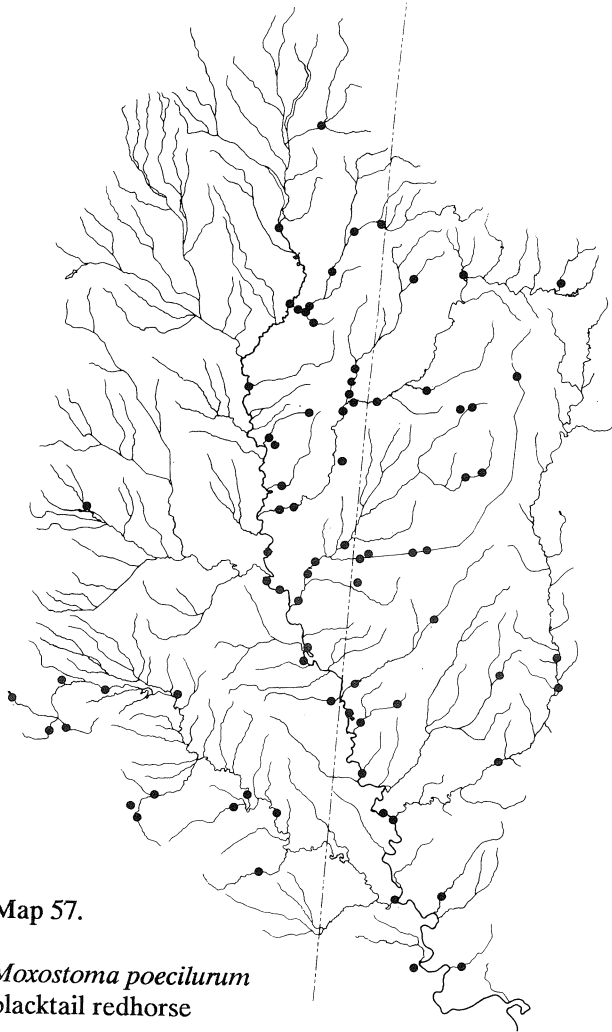
Map 56

Moxostoma erythrurum
golden redhorse

***Moxostoma poecilurum* (Jordan) blacktail redhorse**

Moxostoma poecilurum is more common and widespread than either of the other *Moxostoma* in the upper Tombigbee, where it appears to be better adapted to the small, high-gradient streams; however, it is no less at home in the main river and the large tributaries.

79 Sites: 4, 7, 10, 25, 29, 35, 39, 58, 62, 63, 73, 82, 86, 88, 89, 92, 93, 97, 101, 106, 110, 122, 126, 132, 135, 137-140, 142, 151, 153, 158, 162-164, 170, 174-177, 182, 183, 188, 189, 191, 193, 194, 209, 223, 231, 232, 238, 241-244, 249-251, 254, 258, 265, 267, 271, 272, 275, 284, 306-310, 312, 316, 319, 322, 325, and 343. Map 57.



Map 57.

Moxostoma poecilurum
blacktail redhorse

ICTALURIDAE — bullhead catfishes

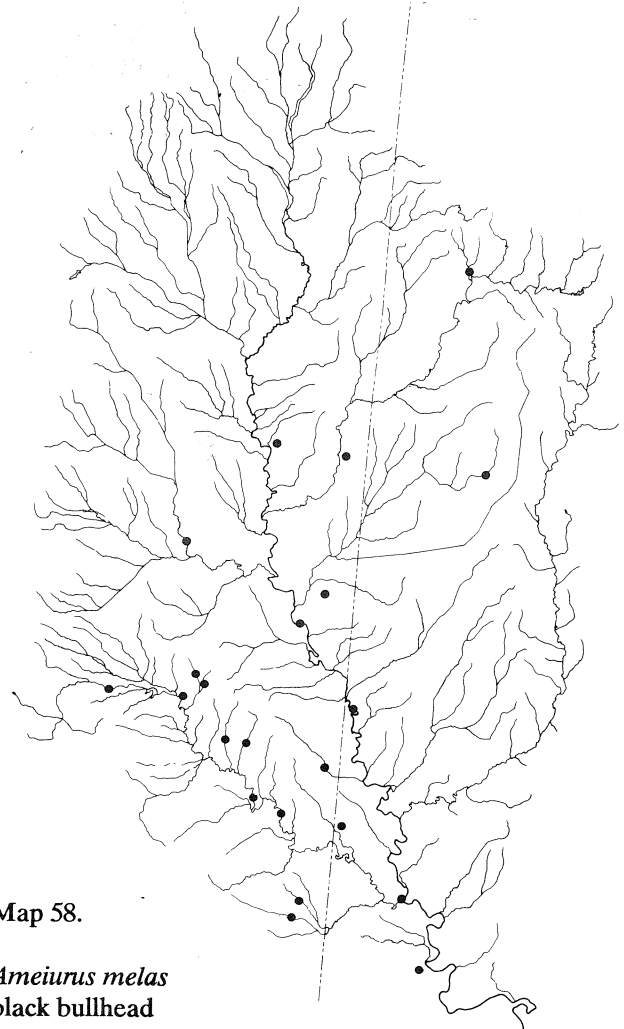
***Ameiurus melas* (Rafinesque) black bullhead**

Ictalurus melas (Rafinesque).— recent authors

Ameiurus melas (Rafinesque).— Lundberg, 1982

The black bullhead occurs in a variety of habitats, but most often in quiet, turbid pools with a silt or muddy bottom. Nest building and parental care places the black bullhead in good stead for survival. It is in jeopardy in the upper Tombigbee where impoundments have covered its habitat.

22 Sites: 7, 15, 16, 18, 29, 39, 43, 46, 71-73, 82, 93, 131, 138, 156, 159, 177, 210, 238, 258, and 271. Map 58.



Map 58.

Ameiurus melas
black bullhead

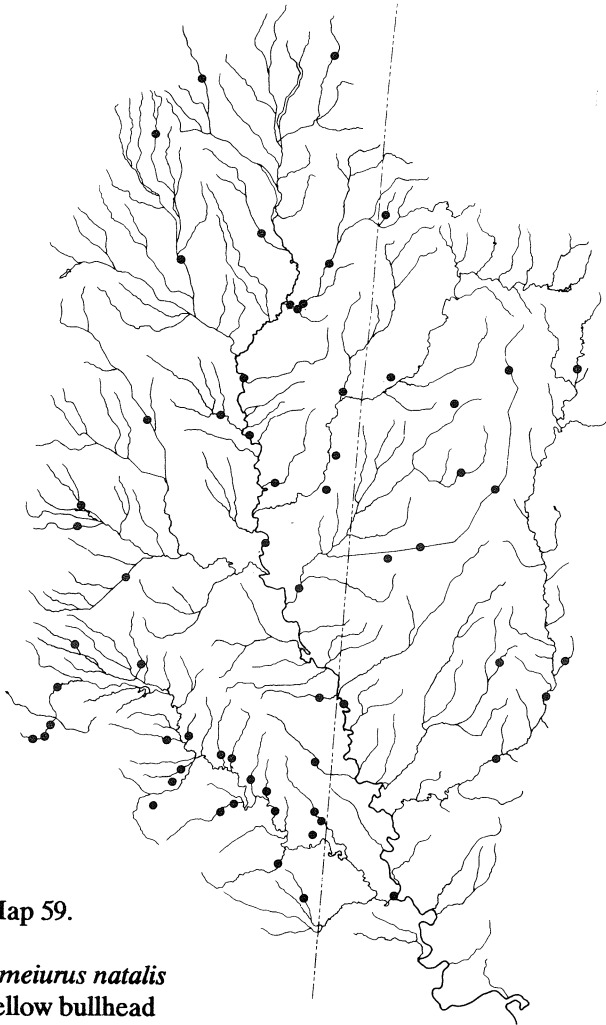
Ameiurus natalis (Lesueur) yellow bullhead

Ictalurus natalis (Lesueur).— recent authors

Ameiurus natalis (Lesueur).— Lundberg, 1982

The habitat is clear water over a variety of substrates, but less so over heavy silt and mud. The reproductive strategy of *Ameiurus natalis* is similar to that of *A. melas*.

62 Sites: 14, 19, 20, 23, 24, 29-31, 35, 36, 42, 45, 54, 55, 59, 65, 66, 76, 79, 87, 89-91, 93, 101, 105, 108, 120, 127, 131, 138, 143, 161, 174, 176, 187, 189-191, 204, 208, 209, 217, 223, 233, 238, 242, 253, 267, 276, 279, 284, 296, 302, 307, 308, 310, 312, 320, 323, 332, and 349. Map 59.



Map 59.

Ameiurus natalis
yellow bullhead

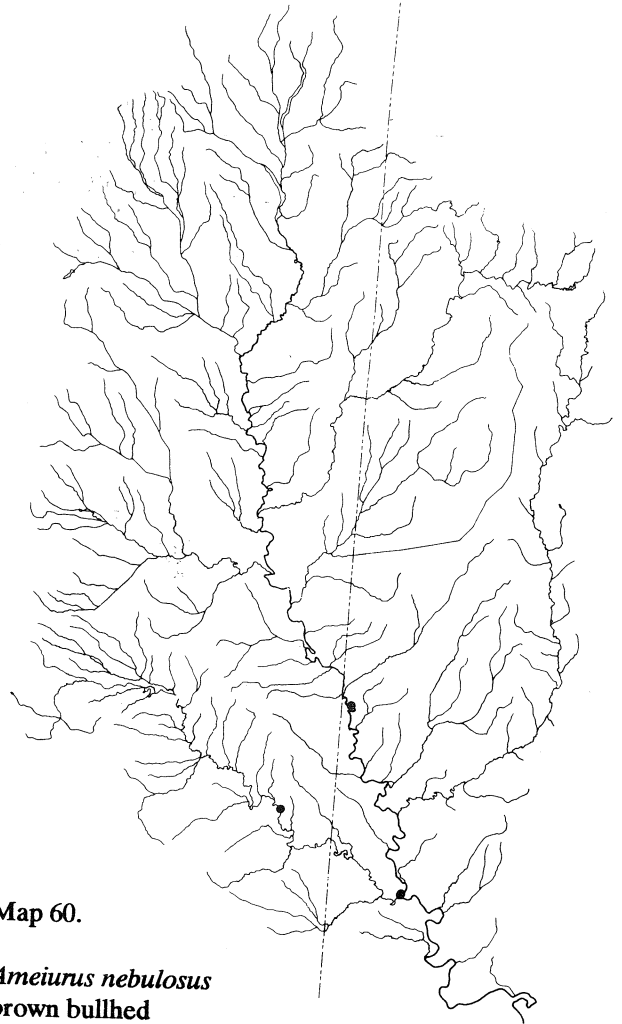
Ameiurus nebulosus (Lesueur) brown bullhead

Ictalurus nebulosus (Lesueur).— recent authors

Ameiurus nebulosus (Lesueur).— Lundberg, 1982

The brown bullhead occurs in the larger streams where vegetative cover is abundant. This fish was not known by me in the upper Tombigbee until Timmons (1982) found it in Gainesville and Aliceville pools. Hubbard (1987) subsequently collected it in the Noxubee system.

3 Sites: 29, 93, and 138. Map 60.



Map 60.

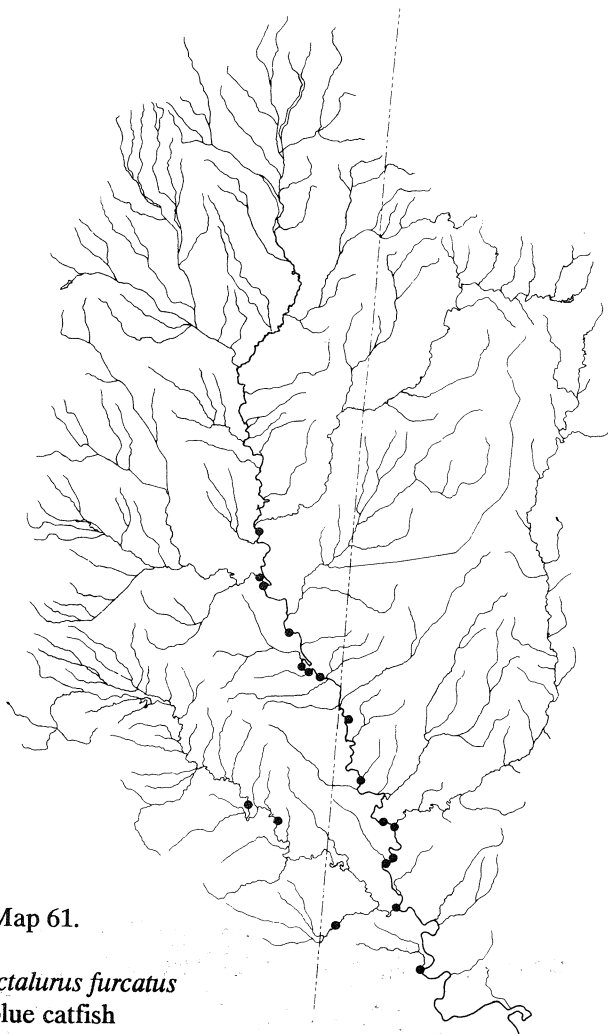
Ameiurus nebulosus
brown bullhead

***Ictalurus furcatus* (Lesueur)**

blue catfish

The life history of the blue catfish is similar to that of the channel catfish, *Ictalurus punctatus*, with the distinction that blue catfish prefer larger rivers (Kelley, 1969). The habitat is generally considered to be moderately swift to swift chutes in large rivers, or pools that have at least moderate current. Based on this, and the fact that the blue catfish has disappeared from the upper Mississippi and other major rivers due to what has been attributed to impoundment of its riverine habitat (Pflieger, 1975), I (1973) predicted that it would be adversely affected by the TTW; however, in the Gainesville and Aliceville pools, gill and trammel net collections indicated a tremendous increase in blue catfish (Boschung, 1987).

18 Sites: 8, 13, 29, 39, 93, 95-97, 122, 132, 138, 149-151, 156, 194, 195, and 225. Map 61.



Map 61.

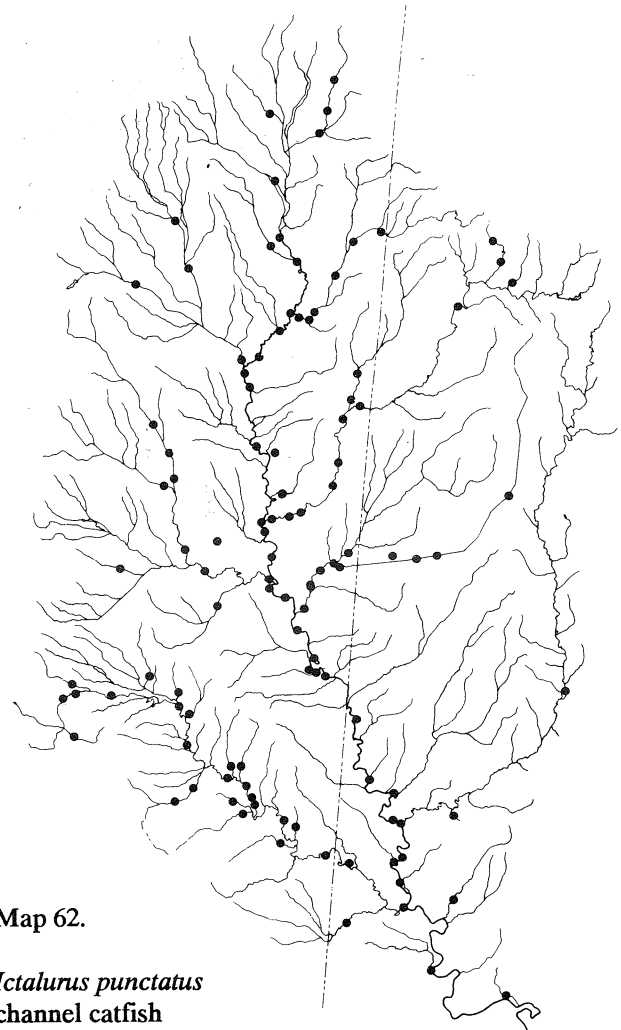
Ictalurus furcatus
blue catfish

***Ictalurus punctatus* (Rafinesque)**

channel catfish

The channel catfish seems to be resourceful enough to adapt to a variety of habitats; however, its most typical natural habitat is clear, medium to large rivers with swift current over sand, gravel, or rocky bottoms (Glodeck, 1980).

109 Sites: 2, 8, 10, 13, 21, 22, 27-29, 34, 35, 39-42, 45, 49, 56, 57, 68, 70, 73, 74, 76, 82, 83, 85, 87, 88, 93-98, 106, 122, 129, 132, 138, 149-151, 153, 156, 158, 163, 164, 167, 170, 179, 186, 188-190, 193-196, 202, 203, 205, 210, 211, 215-217, 223, 225, 229-232, 237, 239, 241, 242, 244, 250, 257, 259-261, 267, 271, 276, 284, 287, 288, 291, 296, 297, 303, 304, 306-308, 310, 312, 316, 319, 322, 323, 325, 336, 343, 346, and 347. Map 62.



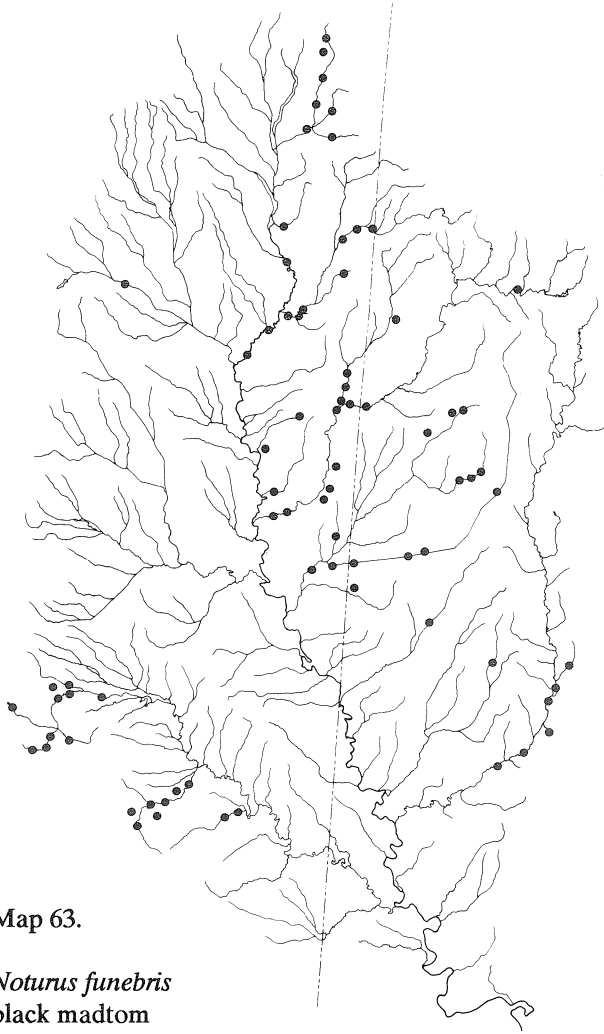
Map 62.

Ictalurus punctatus
channel catfish

Noturus funebris Gilbert and Swain **black madtom**

The black madtom prefers small streams with moderate flow, gravel or coarse sand bottom, and some vegetation. It is affected by the TTW in those areas where small streams are inundated.

76 Sites: 35, 36, 55-59, 62, 63, 82, 83, 85-92, 101, 103-106, 108, 128, 140, 162, 164, 168, 173-179, 182, 188-190, 231-233, 236, 238, 241-244, 246, 250, 251, 262, 267, 271, 275, 291, 303, 304, 307, 308, 310, 311, 316, 317, 319, 322, 326, 343-347, 351, and 352. Map 63.



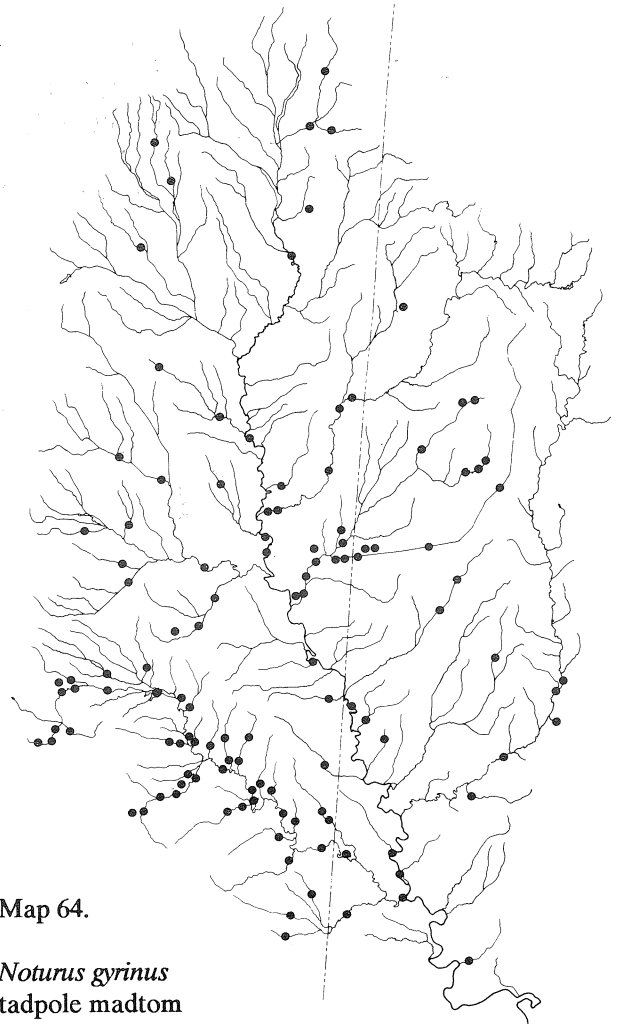
Map 63.

Noturus funebris
black madtom

Noturus gyrinus (Mitchill) **tadpole madtom**

The tadpole madtom prefers extensive vegetation in small streams with soft, muddy bottoms and little current. For aspects of life history, see Whiteside and Burr (1986). It is affected by the TTW where small streams are inundated.

118 Sites: 4, 13, 14, 16, 17, 19-22, 24, 27-31, 35, 36, 39, 40, 42, 43, 45, 46, 49, 51, 54-58, 61, 62, 65-68, 70, 73, 75, 76, 78, 82, 83, 85-91, 93-95, 100, 101, 104-106, 128, 131, 133, 135, 138, 140, 141, 143, 150, 158, 163, 164, 165, 168, 170, 172, 174-180, 182-184, 189, 190, 192, 196, 200, 201, 203-205, 207, 208, 211, 212, 223, 224, 227, 230, 231, 237, 241, 247, 250, 267, 276, 279, 281, 295, 301, 302, 322, 327, 343, 344, and 347. Map 64.



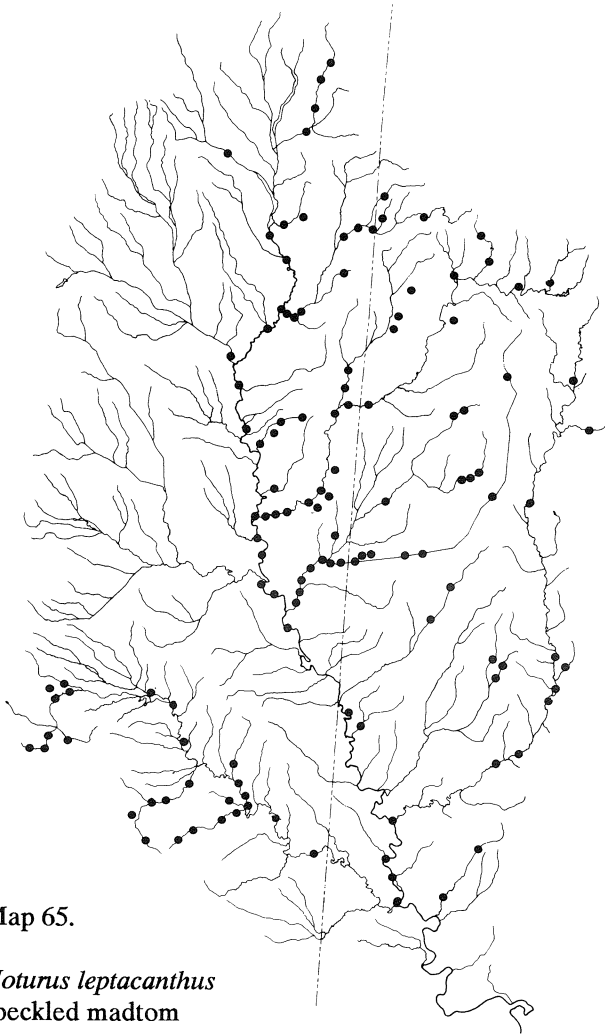
Map 64.

Noturus gyrinus
tadpole madtom

Noturus leptacanthus Jordan speckled madtom

The speckled madtom may be locally common in small to moderate-sized creeks, usually in moderate current over coarse sand or gravel (Rohde, 1980). It is affected by the TTW to the extent that its habitat is inundated.

125 Sites: 10, 11, 22, 29, 34-42, 56-58, 62, 64, 68, 73, 75, 83, 85-91, 93-95, 97, 101, 103, 105, 106, 108, 110, 114, 116, 126-128, 135, 138, 140, 141, 156, 158, 161, 163, 164, 167, 168, 171, 174-180, 182-184, 188-191, 193, 194, 223, 224, 229-236, 238, 241, 243, 244, 246-248, 250, 251, 256, 258-260, 262, 265, 267, 272-275, 282, 284, 288, 304, 306-308, 310, 311, 316-322, 325-327, 329, 343, 346, 347, and 349. Map 65.



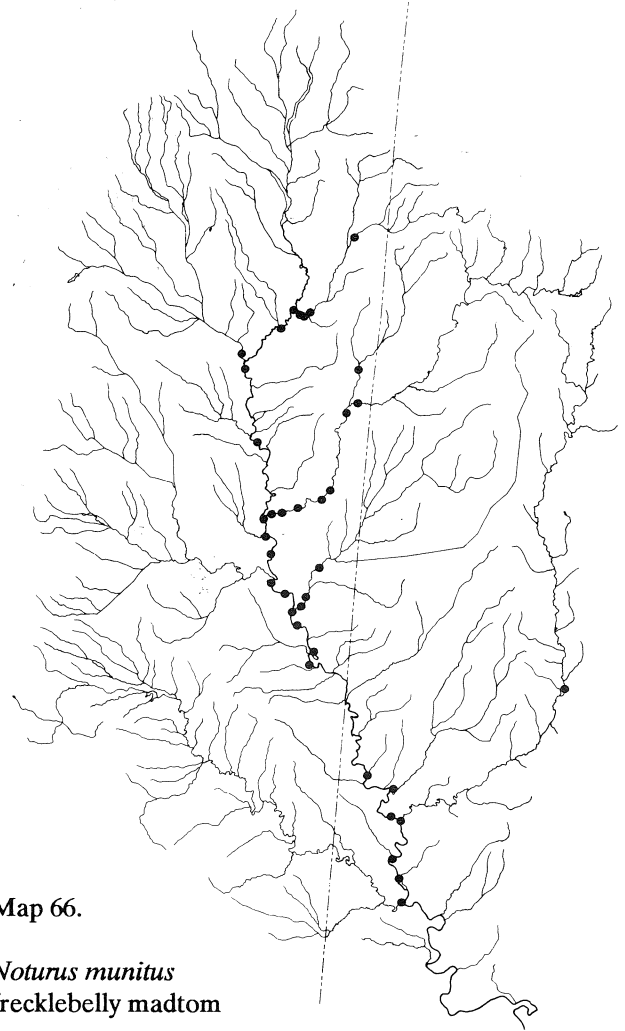
Map 65.

Noturus leptacanthus
speckled madtom

Noturus munitus Suttkus and Taylor frecklebelly madtom

Noturus munitus was rather common on the gravel bars throughout the main channel of the upper Tombigbee. There is little hope for the frecklebelly madtom's survival in the modified channel, but it has been collected in large tributaries of the Fall Line Hills.

37 Sites: 93-95, 97, 106, 122, 129, 132, 151, 153, 156-158, 161, 164, 193, 194, 223, 224, 229-232, 234, 235, 241, 244, 250, 276, 287, 288, 304, 306-308, 310, and 316. Map 63. Map 66.



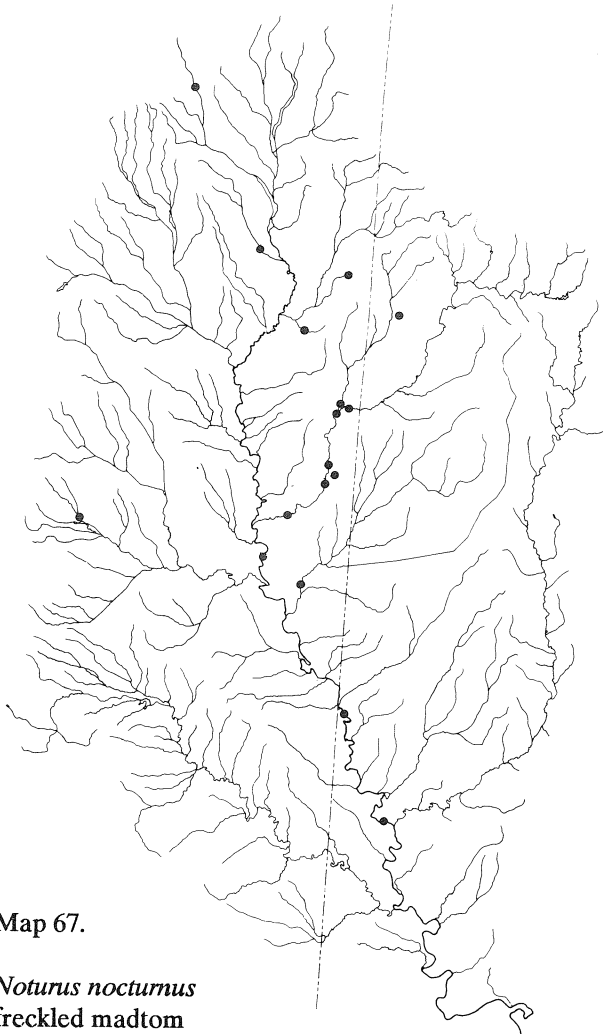
Map 66.

Noturus munitus
frecklebelly madtom

Noturus nocturnus Jordan and Gilbert **freckled madtom**

Young freckled madtoms occur primarily in mixed gravel and sand riffles with accumulations of sticks, leaves, trash, and other debris, often at heads of riffles where the current is strong. Adults are found primarily in riffles throughout most of the year, but sometimes in mud-bottomed pools (Burr and Mayden, 1982b). It is virtually absent in the upper Tombigbee outside the Fall Line Hills. It is affected by the TTW to the extent that its habitat is inundated.

17 Sites: 122, 138, 163, 209, 223, 232, 237-239, 241, 242, 247, 250, 309, 311, 323, and 332. Map 67.



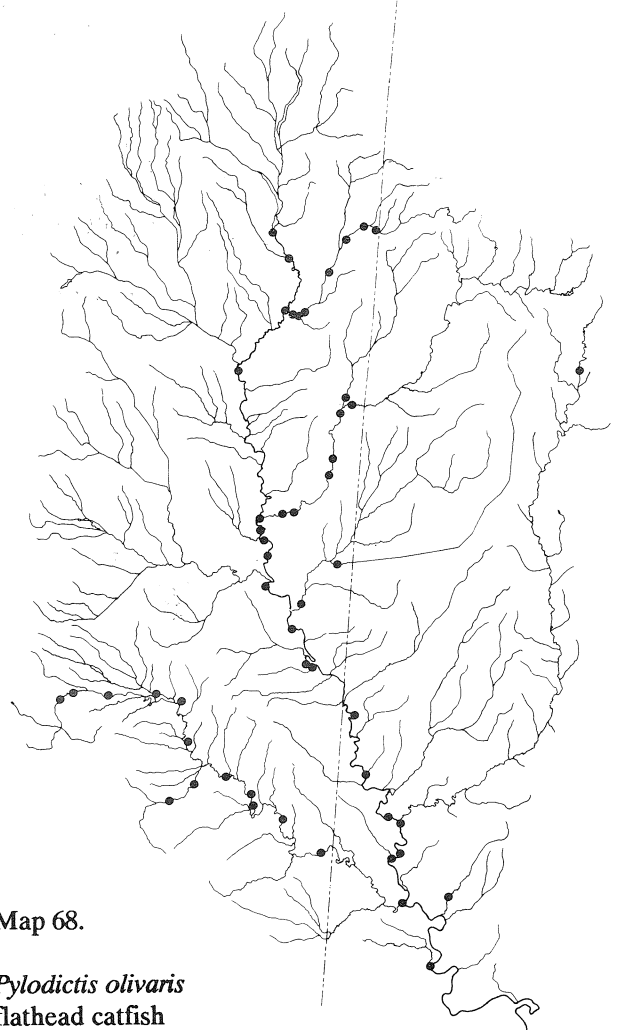
Map 67.

Noturus nocturnus
freckled madtom

Pyloodictis olivaris (Rafinesque) **flathead catfish**

The flathead catfish is primarily limited to the main channels of the river and the large tributaries. It prefers deep water and may be found frequently in muddy areas. It is not expected to be adversely affected by the TTW.

51 Sites: 8, 10, 22, 29, 39, 40, 49, 56, 57, 68, 73, 75, 82, 85, 87, 93, 95-97, 120, 122, 132, 138, 150, 151, 156, 158, 179, 194, 223-225, 229, 231, 232, 237, 239, 241, 242, 250, 287, 306-308, 310, 312, 316, 317, 319, 322, and 325. Map 68.



Map 68.

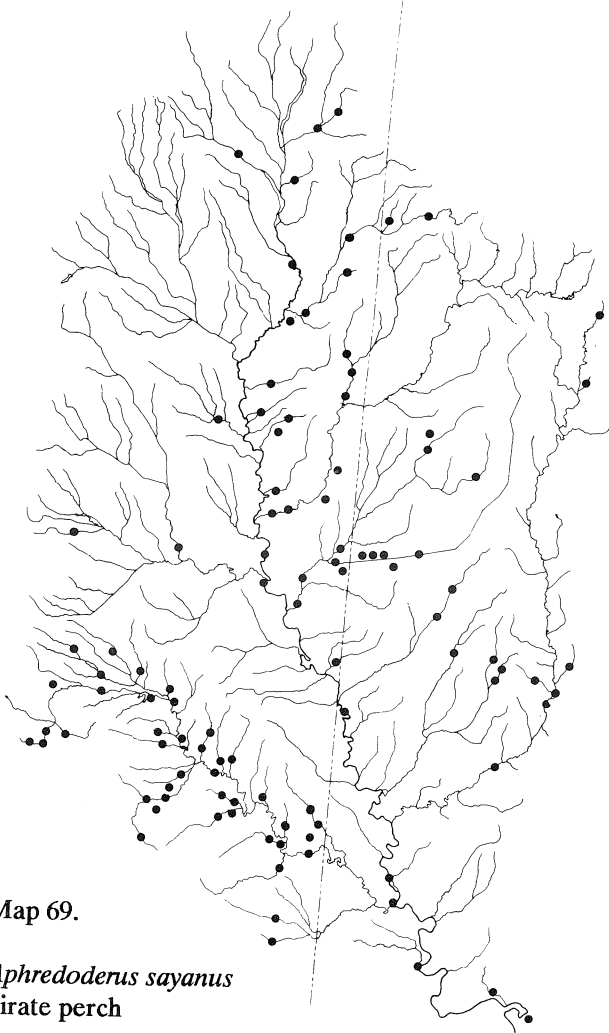
Pyloodictis olivaris
flathead catfish

APHREDODERIDAE — pirate perches

Aphredoderus sayanus (Gilliams) pirate perch

The pirate perch is found in a variety of places, such as pools of low-gradient streams, sloughs, marshes, ditches, and almost always where there is good vegetative cover and debris on the bottom.

103 Sites: 1, 2, 8, 16, 17, 19, 20, 22-24, 26-28, 30, 33-36, 42, 45, 49, 51, 52, 54, 55, 57-59, 64, 67, 68, 69, 73, 74, 76-80, 82, 86, 88-91, 93, 94, 101, 105-108, 119, 121, 125-128, 138, 140, 141, 147, 158, 163, 170, 172, 173, 177, 179, 181, 183, 184, 186, 187, 189, 194, 208, 210, 223, 231-233, 238, 242, 244, 245, 267, 273, 274, 279, 283, 285, 305, 310, 311, 316, 320-322, 329, 334, 343, and 345. Map 69.



Map 69.

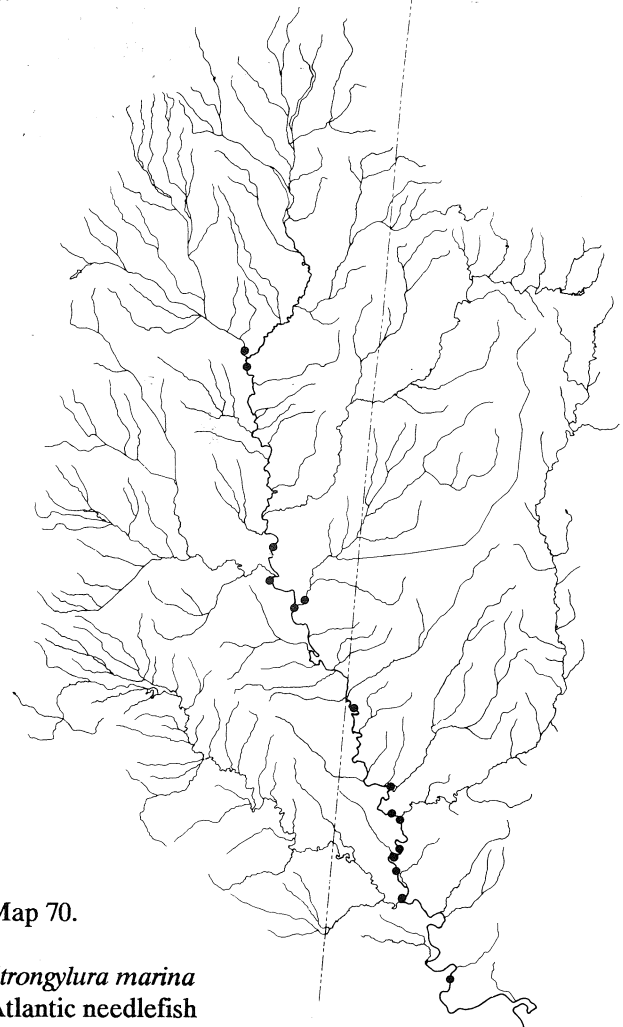
Aphredoderus sayanus
pirate perch

BELONIDAE — needlefishes

Strongylura marina (Walbaum) Atlantic needlefish

The needlefish is a regular migrant into the upper Tombigbee and other drainages of Mobile basin. Needlefish containing well-developed eggs, and juveniles only 42.0 to 67.6 mm TL were collected near Amory, Miss., a point over 370 rmi from the head of Mobile Bay. Undoubtedly, the species spawns in freshwater. The increase in number of obstacles to its migration may decrease its frequency of occurrence in the upper Tombigbee. Adverse effects of the TTW are not anticipated.

15 Sites: 3, 93-97, 122, 129, 138, 157, 158, 194, 223, 287, and 288. Map 70.



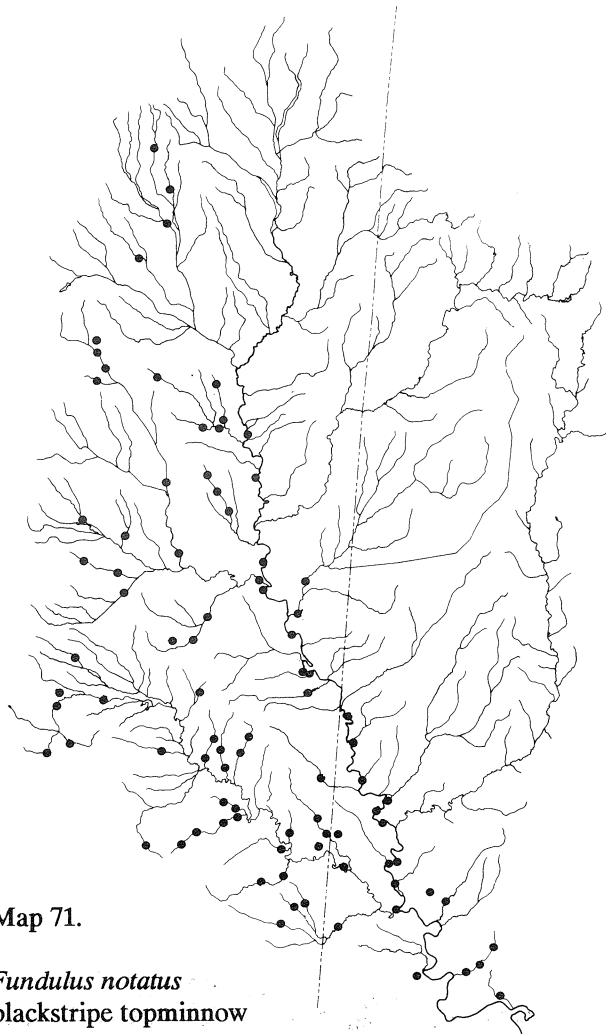
Map 70.

Strongylura marina
Atlantic needlefish

Fundulus notatus (Rafinesque) blackstripe topminnow

Fundulus notatus prefers the slow low-gradient streams characteristic of the physiographic areas west of the river. It is occasionally syntopic with *F. olivaceus*, and the two are known to hybridize (Tomerson, 1967; Setzer, 1970). Howell and Black (1981) found hybridization in Trussels Creek (Site 10); they also noted that the Tombigbee River sports a chromosomal race of *F. notatus* where $2n = 44$, instead of $2n = 40$. No adverse effects of the TTW are expected.

89 Sites: 2, 4-7, 10, 12-16, 18-21, 23-26, 28, 33-38, 43-46, 51, 52, 64, 67, 71, 79, 82, 86, 87, 88, 90, 93-96, 122, 123, 129, 131, 132, 138, 146, 150, 151, 156, 158, 163, 194, 195, 197, 200, 201, 204-207, 209, 210, 215, 218-221, 223, 226-228, 268, 277-282, 295, 297, 301, and 302. Map 71.



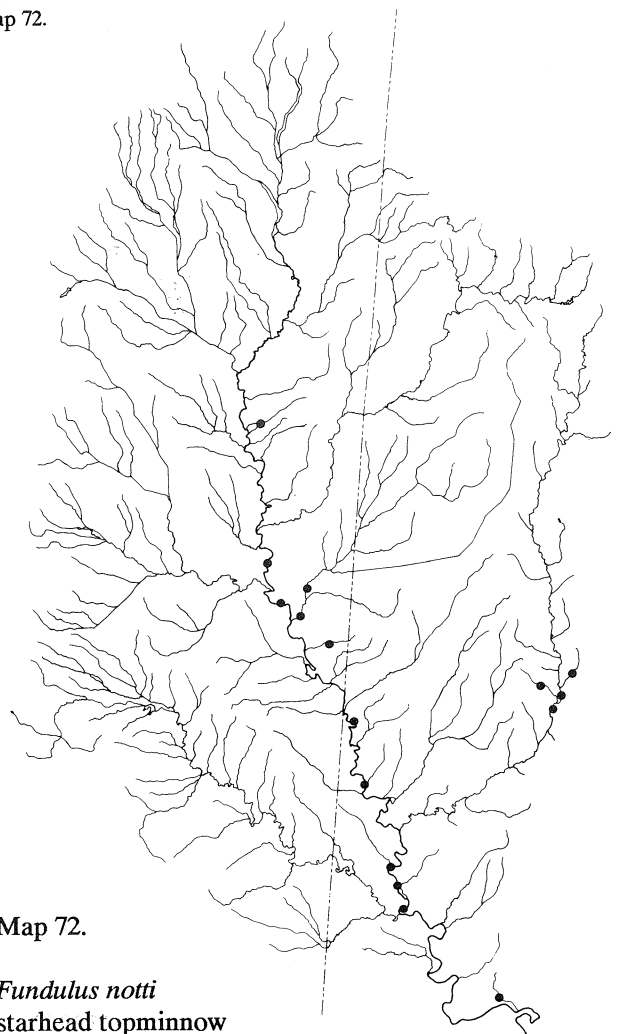
Map 71.

Fundulus notatus
blackstripe topminnow

Fundulus notti (Agassiz) starhead topminnow

The records reported herein represent the first published notice of *Fundulus notti* in the upper Tombigbee. Field notes in UAIC pertaining to about 75 collections of *F. notti* in Alabama, Mississippi, and Louisiana reveal that the fish occurs in a variety of habitats. Water is described as clear, slightly stained, tea color, dark, dark tea color, murky, turbid, and black; the bottom may be mud, sand, gravel, clay, rock, silt, detritus, leaves, or combinations of these; the current was either none, very slow, slow, moderate, moderately fast, and swift; vegetation ranged from none to dense, and varying from algae to various species of attached vascular plants. The typical *F. notti* stream has clear or tea-colored water, a sandy bottom, slow to moderate current, and submerged vascular plants. It appears that the mid-Sipsey River will serve as the citadel of this species in the upper Tombigbee.

16 Sites: 2, 93-95, 105-108, 132, 138, 154, 158, 163, 193, 223, and 283. Map 72.



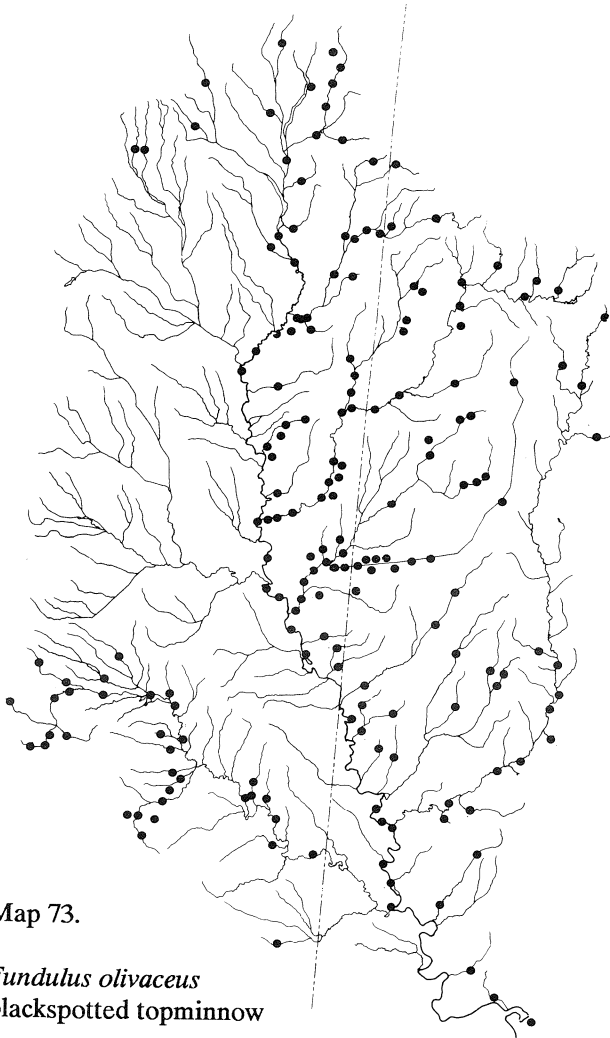
Map 72.

Fundulus notti
starhead topminnow

Fundulus olivaceus (Storer) blackspotted topminnow

In the upper Tombigbee, *Fundulus olivaceus* prefers the faster flowing water typical of high-gradient streams of the Fall Line Hills, and high elevations west of the river proper.

186 Sites: 1, 2, 5, 10, 11, 17, 22, 27, 29-32, 40, 53, 54, 55, 57, 59, 61, 62, 63, 66, 68, 69, 73-75, 77, 78, 82-85, 87-95, 97-101, 103-106, 110, 111, 116, 118, 120-128, 130, 133, 135-141, 147, 148, 153, 154, 156, 158, 160-180, 182-191, 193, 194, 223, 229-236, 238, 239, 241, 243-252, 255-259, 262, 264, 265, 267, 271-275, 285, 287, 299, 300, 303-305, 307-317, 319-323, 325, 326, 330, 332, 334-336, 338, 340, 343, 344, 346, 347, 349, and 351. Map 73.



Map 73.

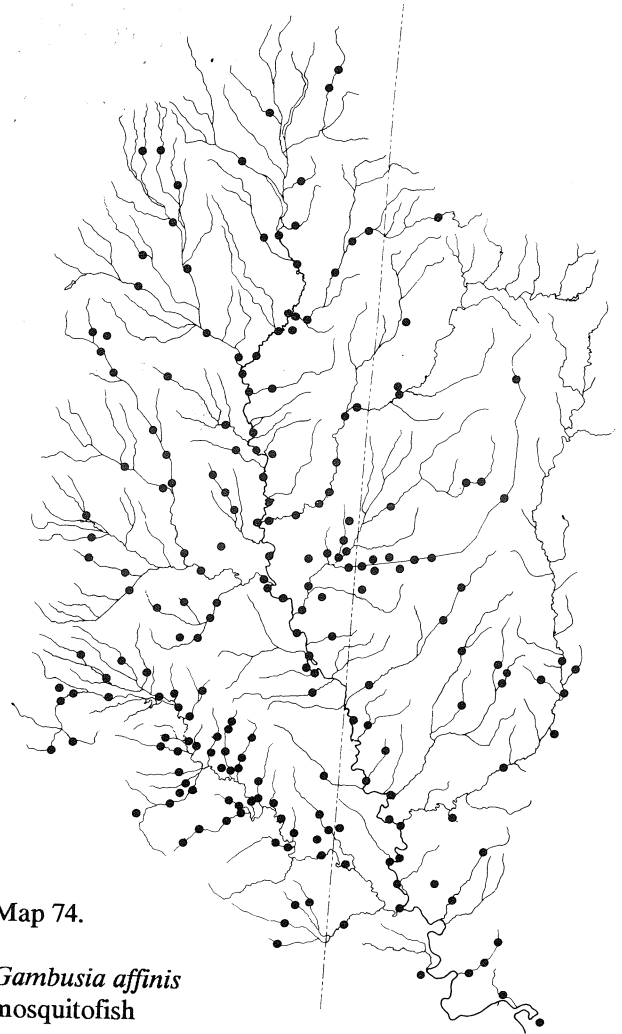
Fundulus olivaceus
blackspotted topminnow

POECILIIDAE — livebearers

Gambusia affinis (Baird and Girard) mosquitofish

In the upper Tombigbee, the mosquitofish is more common in the sluggish streams of the western physiographic areas than in the high-gradient stream of the Fall Line Hills.

205 Sites: 1, 2, 4-7, 10-23, 26-38, 40, 42-48, 50, 51-57, 62, 65-71, 73-79, 82, 85-88, 90, 93-98, 101, 104, 106-108, 110, 122, 124-129, 131-133, 135, 138-141, 146, 150, 151, 153, 154, 156, 158, 160, 162, 163, 165, 166, 168-171, 176, 177, 180, 182, 183, 185-191, 193-206, 208-212, 215-217, 219-223, 226-230, 232, 234, 235, 239, 241, 247, 250, 252, 253, 266, 268, 269, 271, 276, 279, 281, 282, 284, 285, 287-289, 291, 295-297, 300-307, 310, 312, 316, 317, 321-323, 325, 326, 329, 334, 336, 347, and 349. Map 74.



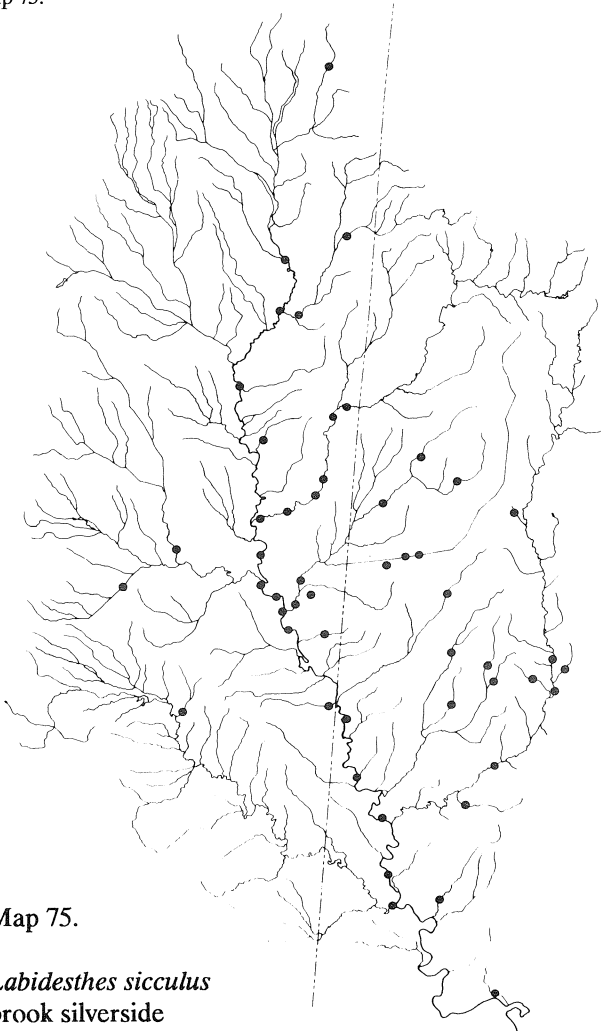
Map 74.

Gambusia affinis
mosquitofish

Labidesthes sicculus (Cope) brook silverside

Labidesthes sicculus occupies microhabitats similar to that of *Fundulus olivaceus*, a difference being an almost total absence of aquatic vegetation. The species is affected by the TTW to the extent that its habitat is inundated.

51 Sites: 2, 10, 70, 93, 94, 100, 101, 106-108, 110, 113, 122, 124-126, 128, 132, 138, 141, 142, 154, 156-159, 163, 171, 172, 176, 187-189, 193, 194, 204, 210, 223, 230, 232, 234, 235, 241, 250, 272, 284, 306, 310, 316, 322, and 349. Map 75.



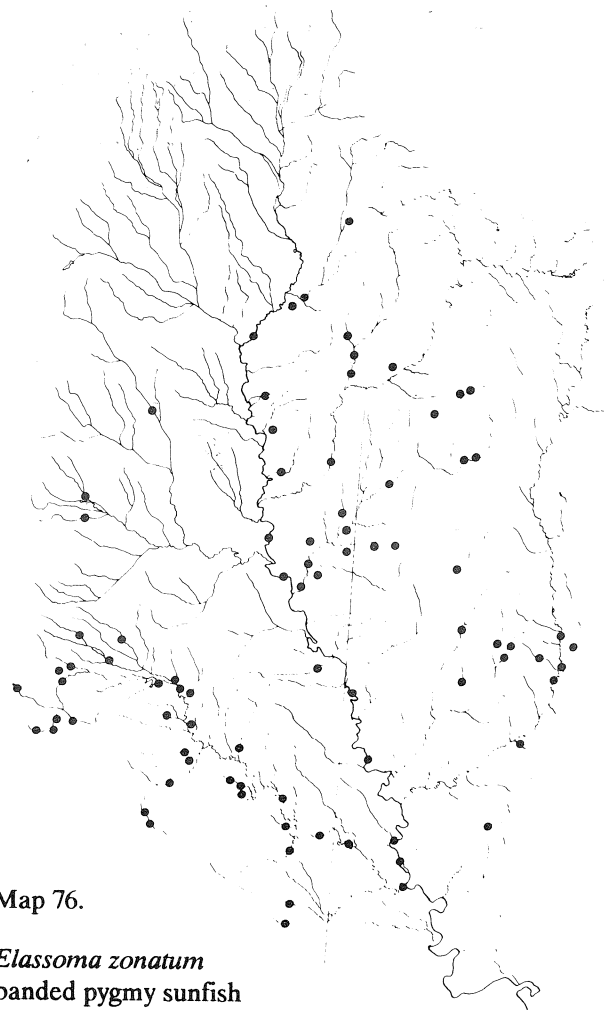
Map 75.

Labidesthes sicculus
brook silverside

Elassoma zonatum Jordan banded pygmy sunfish

This little fish is usually encountered in well-vegetated pools associated with sluggish streams below the Fall Line. For aspects of the life history of *Elassoma zonatum*, see Walsh and Burr (1984). It is affected by the TTW to the extent that its habitat is inundated.

84 Sites: 11, 16, 17, 21, 22, 24, 26, 29, 33-35, 42, 53, 54, 57, 63, 64, 68-70, 73, 74, 77-80, 83, 86-95, 102, 105-108, 110, 124-128, 132, 138, 141, 146, 158, 159, 163, 165, 168, 170, 171, 173-177, 181, 185, 187, 193, 208, 209, 217, 223, 237, 243-245, 253, 267, 271, 283, 303, 305, 310, and 316. Map 76.



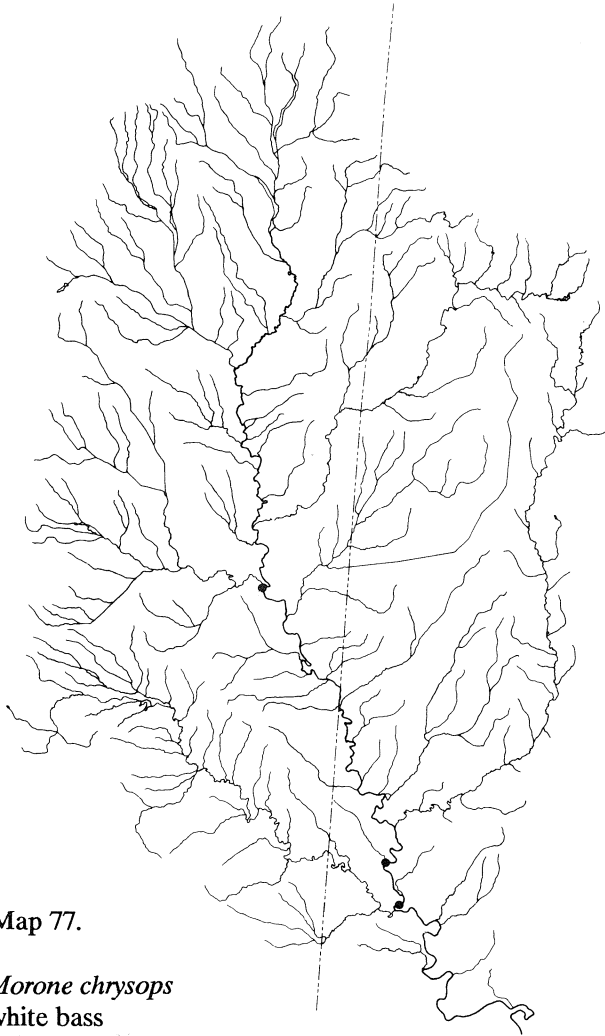
Map 76.

Elassoma zonatum
banded pygmy sunfish

Morone chrysops (Rafinesque) white bass

The white bass, an introduced fish in the upper Tombigbee, does well in reservoirs of the Ozarks and the Missouri River (Pflieger, 1975). Robert Wood (1988) collected a specimen on the artificial gravel bar below Columbus Dam in August 1987. Recent reports of large catches by anglers in Aliceville Pool, near the mouth of the Luxapallila River, have come to my attention (Phil Fishella, pers. comm.). The white bass is listed here in anticipation of it becoming established in the TTW.

2 Sites: 157 and 194. Map 77.



Map 77.

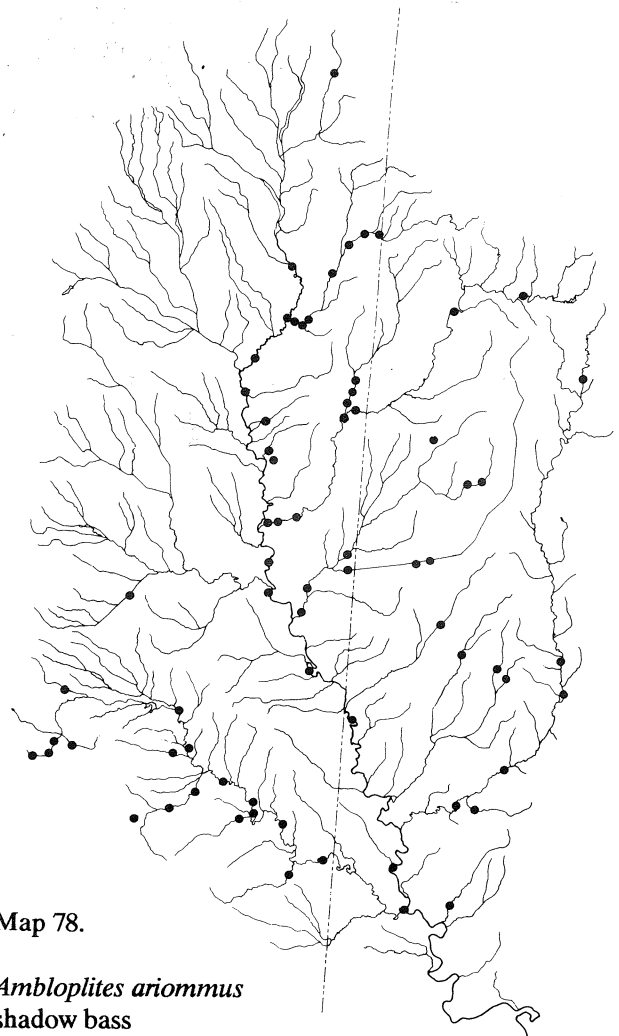
Morone chrysops
white bass

Ambloplites ariommus Viosca shadow bass

Ambloplites rupestris (Rafinesque), in part
Ambloplites ariommus.— Cashner and Suttkus, 1977

This smallest member of the genus, rarely exceeding 180 mm SL (Cashner, 1980), has a reproductive strategy like most other sunfishes. The effect of the TTW on the shadow bass depends on the extent to which the habitat is inundated.

70 Sites: 10, 22, 24, 29, 35, 39, 40, 49, 56, 57, 62, 66, 68, 73, 83, 88-91, 93, 95, 99-101, 106, 110, 120, 125, 127, 128, 138, 140, 151, 158, 163, 170, 173, 176, 177, 180, 188, 189, 194, 204, 223, 230-232, 241-244, 250, 257, 262, 271, 272, 283, 284, 303, 306-308, 310, 312, 316, 317, 319, 322, and 349. Map 78.



Map 78.

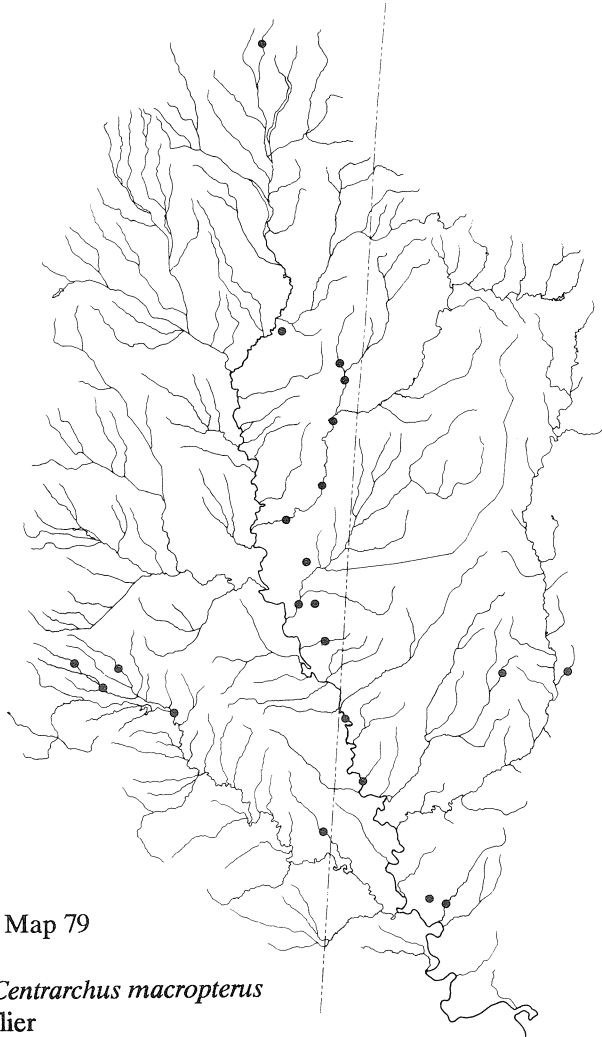
Ambloplites ariommus
shadow bass

Centrarchus macropterus (Lacepede)

flier

The flier prefers sluggish lowland habitats with clear, heavily vegetated waters (Lee and Gilbert, 1980). It is affected by the TTW to the extent that its habitat is inundated.

22 Sites: 10, 12, 19, 73, 77-79, 108, 127, 132, 138, 154, 158, 159, 165, 232, 237, 241, 244, 245, 305, and 338. Map 79.



Map 79

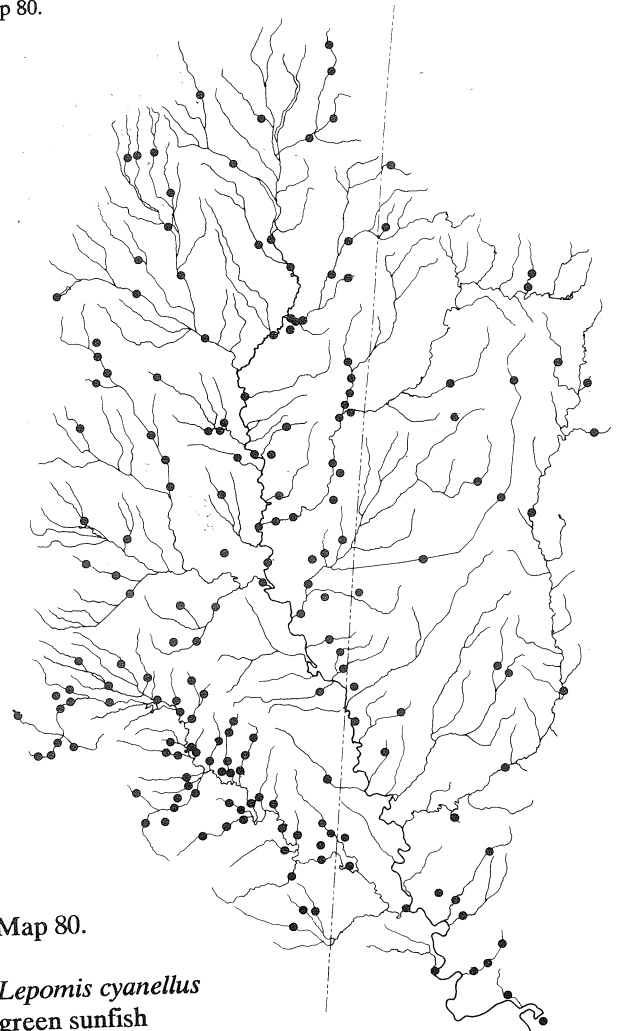
Centrarchus macropterus
flier

Lepomis cyanellus Rafinesque

green sunfish

Green sunfish inhabit a variety of environments where it spends a rather sedentary life. It is affected by the TTW to the extent that its reproductive habitat is inundated.

181 Sites: 1, 2, 4-6, 8-12, 14, 15, 16, 18-24, 27-31, 33-37, 40, 42-48, 50-57, 59-61, 65-79, 82, 83, 85-93, 98, 101, 106, 114, 116, 118, 119, 127, 128, 131, 133, 137, 138, 144, 146-148, 154, 158, 160, 162, 163, 165, 166, 168, 174, 177, 189-191, 195, 196, 198, 200, 201, 202, 204-207, 209, 213, 215-221, 223, 227, 229, 231-233, 238, 239, 241-245, 250, 255, 263, 264, 267, 269, 271, 274, 276, 277, 279, 280, 281, 284, 289, 291, 293, 295-297, 299-302, 304, 305, 307, 308, 310-312, 315, 316, 320, 322, 323, 325, 329, 332, 336, 343, 345, 349, and 352. Map 80.



Map 80.

Lepomis cyanellus
green sunfish

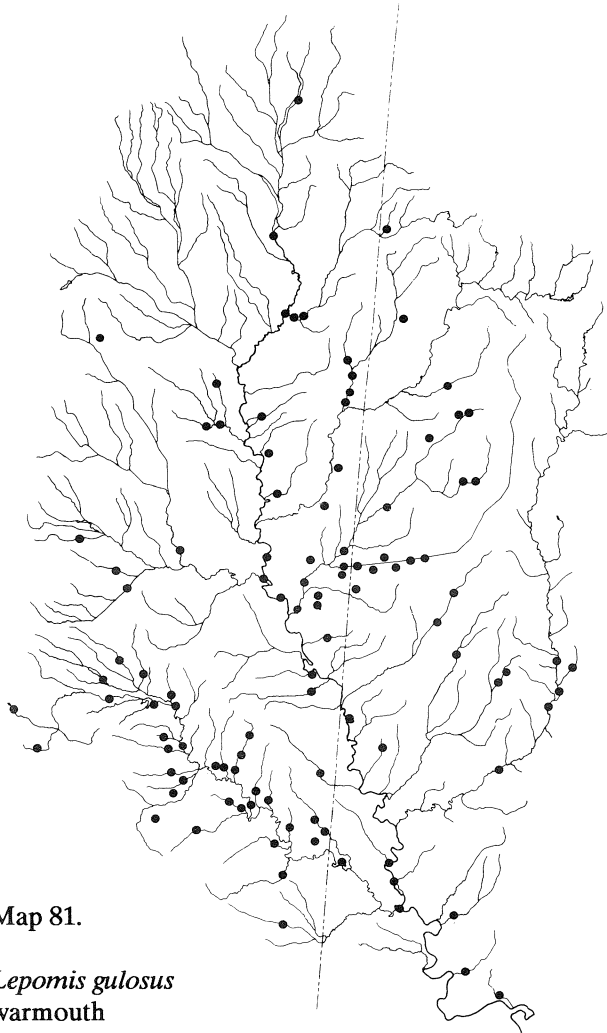
Lepomis gulosus (Cuvier)

warmouth

Chaenobryttus gulosus (Cuvier)

The warmouth has a strong preference for dense cover over a mud bottom in quiet backwater areas. It is affected by the TTW to the extent that its habitat is inundated.

105 Sites: 2, 4, 9, 16, 19-21, 23, 24, 27, 28, 30, 31, 33, 34, 37, 39, 42-45, 50, 53-55, 59, 66, 68, 69, 73, 74, 76, 77, 78, 80, 82, 91-95, 101, 105, 106, 108, 110, 125-127, 131, 133, 138, 140, 141, 146, 150, 154, 158-160, 162, 163, 165, 170, 171, 173-177, 180, 181, 182, 185-189, 193, 195, 204, 205, 208, 210, 221, 223, 233, 238, 242-245, 247, 255, 267, 271, 278-280, 283, 306, 307, 310, 320, 325, and 339. Map 81.

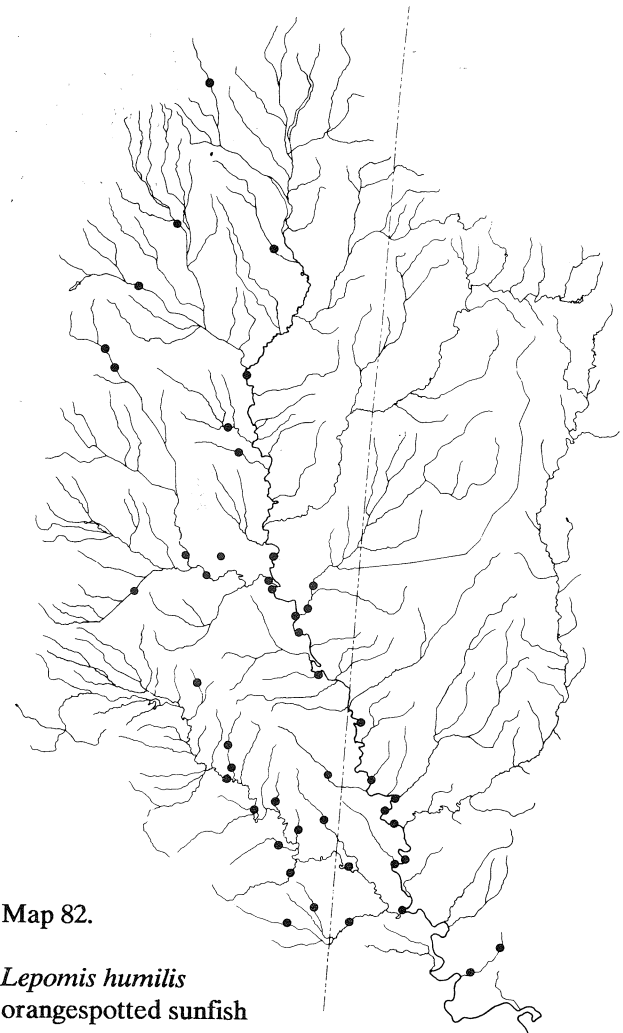


Lepomis humilis (Girard)

orangespotted sunfish

As the distribution map clearly shows, the orangespotted sunfish avoids high-gradient streams of the Fall Line Hills. It is tolerant of siltation and continuous high turbidity and is commonly found in streams with low or intermittent flow (Pflieger, 1975). The presence of *Lepomis humilis* in coastal drainages east of the Mississippi River is the result of introductions (Smith-Vaniz, 1968).

46 Sites: 4, 6, 13, 14, 16, 20, 21, 24, 27, 28, 30, 39, 45, 46, 49, 72, 93, 95, 96, 122, 123, 129, 131, 132, 138, 150, 156-158, 163, 194, 195, 202-204, 210, 219, 220, 223, 269, 279, 287, 291, 297, 323, and 332. Map 82.

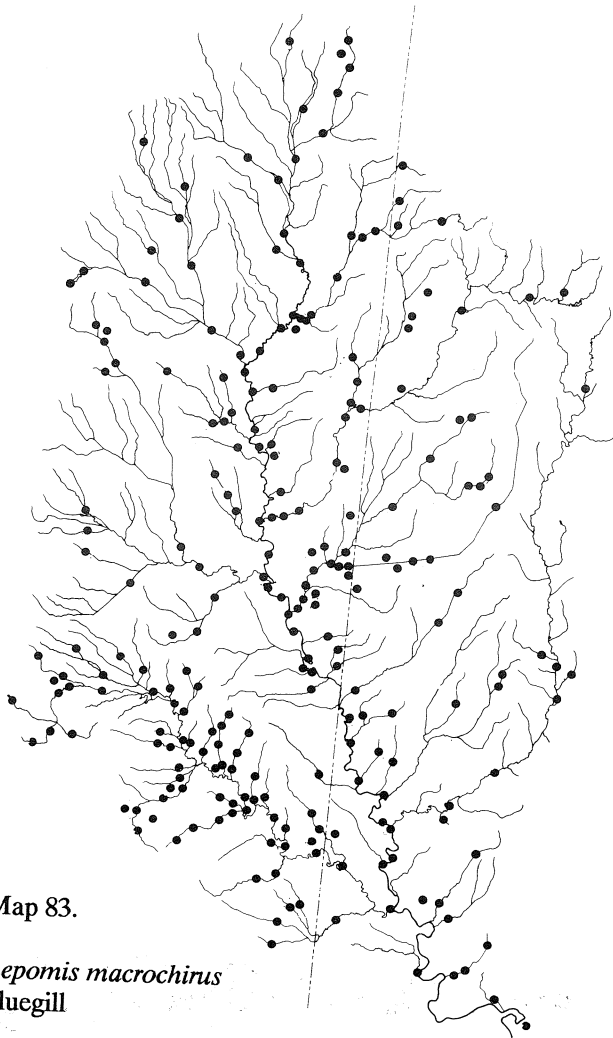


Lepomis macrochirus Rafinesque

bluegill

The bluegill has been so widely introduced that it now occurs in all of North America from northern Mexico to southern Canada. It inhabits lakes, oxbows, ponds, reservoirs, and the slower portions of rivers and streams of all sizes, preferably where aquatic vegetation abounds. It is affected by the TTW to the extent that the breeding habitat is inundated.

237 Sites: 1, 2, 4-6, 8-40, 42-48, 50-57, 59, 61-63, 65-79, 82-89, 91-93, 95-99, 101, 106, 108, 110, 111, 120, 122, 124, 126, 127, 129-134, 136-141, 146-148, 150, 151, 153, 154, 156-167, 169-172, 174-181, 186-190, 193-196, 200, 201, 203, 204, 206, 208-210, 218-223, 226-232, 238, 239, 241, 242, 244-248, 250, 253, 257, 262, 265, 267, 269, 271, 272, 276-282, 284, 285, 287-289, 291-293, 295-297, 299, 301, 303, 304-308, 310, 312, 313, 315-318, 320-323, 325, 328, 329, 335, 338, 339, 343, 347, 349, 351, and 352. Map 83.



Map 83.

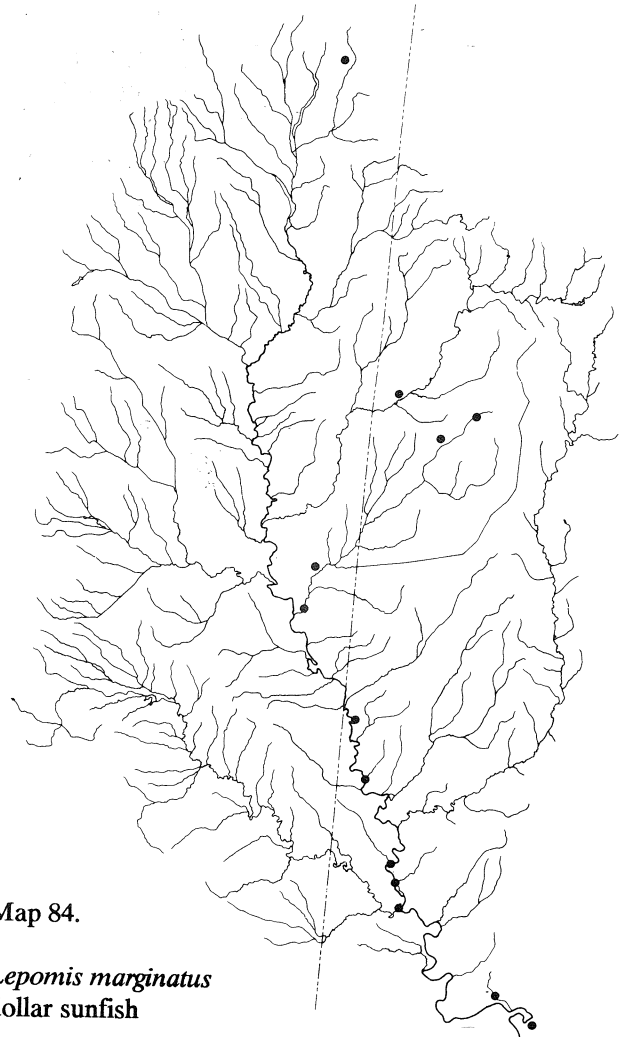
Lepomis macrochirus
bluegill

Lepomis marginatus (Holbrook)

dollar sunfish

So little is known about this uncommon sunfish that trying to predict the effects of the TTW on its life would be rather hazardous. Lee and Burr (1985) made observations on its life history in a man-made pond in North Carolina. The first records known by me of *Lepomis marginatus* in the upper Tombigbee were those of Timmons (1982). Subsequently, a few earlier records were discovered. *L. marginatus* is similar to *L. megalotis* and the two are easily confused.

13 Sites: 1, 2, 93-95, 132, 138, 158, 165, 173, 175, 253, and 351. Map 84.



Map 84.

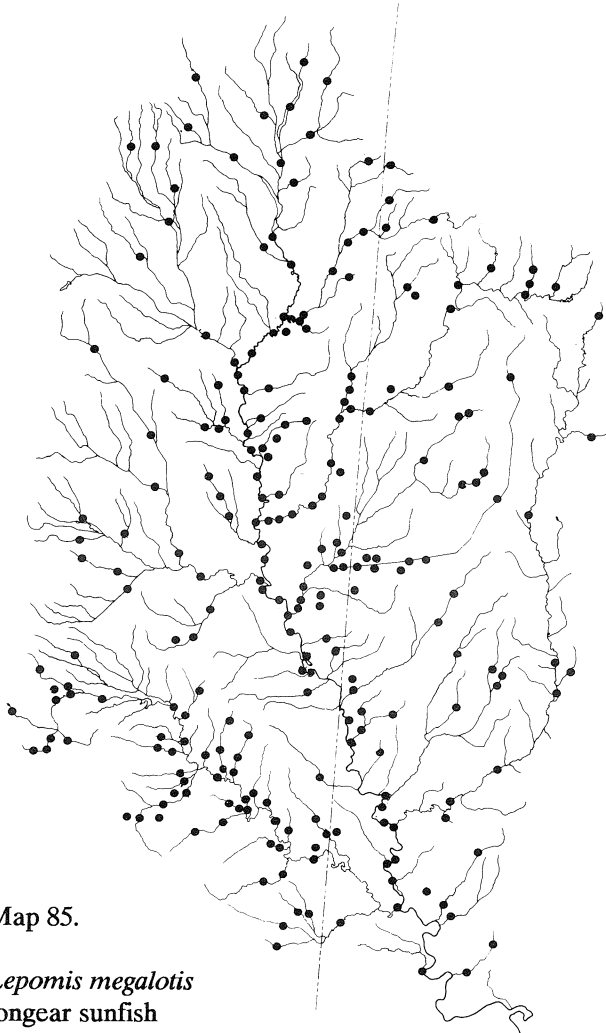
Lepomis marginatus
dollar sunfish

Lepomis megalotis (Rafinesque)

longear sunfish

The longear and bluegill sunfishes are the two most ubiquitous fishes in the Upper Tombigbee. The longear thrives in reservoirs, but typically inhabits small streams and upland parts of rivers (Bauer, 1980).

238 Sites: 4, 6, 8-20, 22-31, 33, 34, 36, 37, 39, 40, 42-46, 48, 49, 51, 53-57, 59, 61, 62, 66-71, 73, 79, 82-99, 101, 106, 108, 110, 114, 116, 121-129, 131, 133-141, 144, 146, 148, 150, 151, 153, 154, 156-163, 165, 166, 168-170, 172, 174-180, 182-185, 187-191, 193-196, 200, 201, 203-211, 217, 220, 223, 224, 226-232, 234, 235, 238, 239, 241-244, 248-251, 253, 255, 257-259, 262-268, 271-285, 287-289, 295, 297, 299, 301-312, 314-318, 320-323, 325, 329, 330, 332, 334-336, 339, 341, 343, and 347. Map 85.



Map 85.

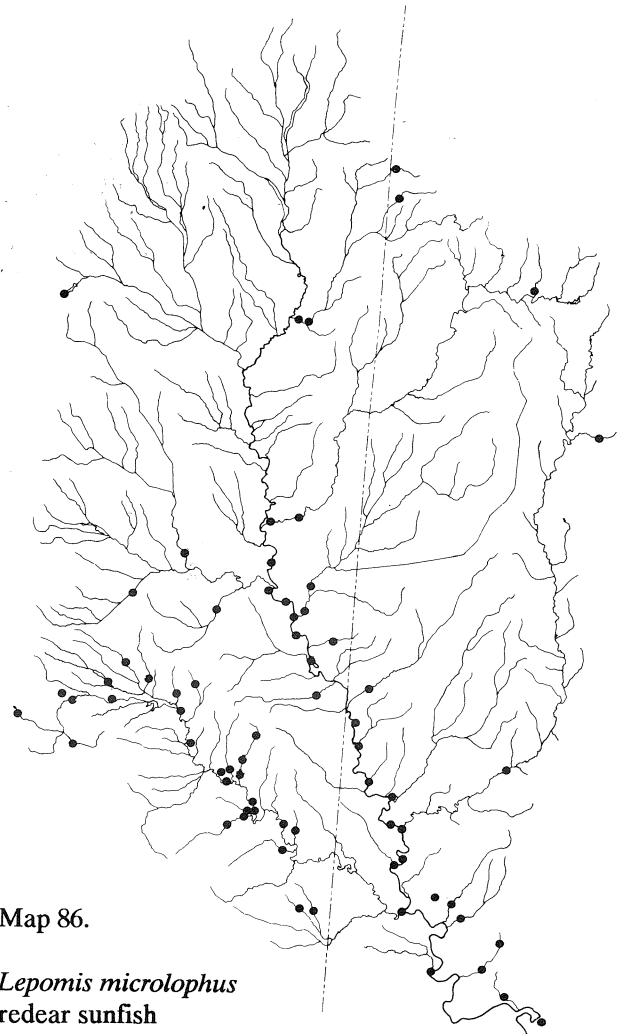
Lepomis megalotis
longear sunfish

Lepomis microlophus (Gunther)

redear sunfish

The redear sunfish is found most frequently in clear, slow-moving streams where aquatic vegetation is abundant. It is affected by the TTW to the extent that its habitat is inundated.

69 Sites: 1, 2, 5, 6, 8-10, 12, 14, 15, 27-29, 33, 35, 36, 39, 40, 42-45, 49, 50, 68, 72-74, 76-78, 82, 85, 86, 88, 92, 93, 95-97, 101, 116, 122, 129, 132, 134, 138, 139, 146, 153, 154, 156-158, 163, 193, 194, 196, 204, 210, 223, 230, 232, 263, 293, 307, 310, 315, and 318. Map 86.



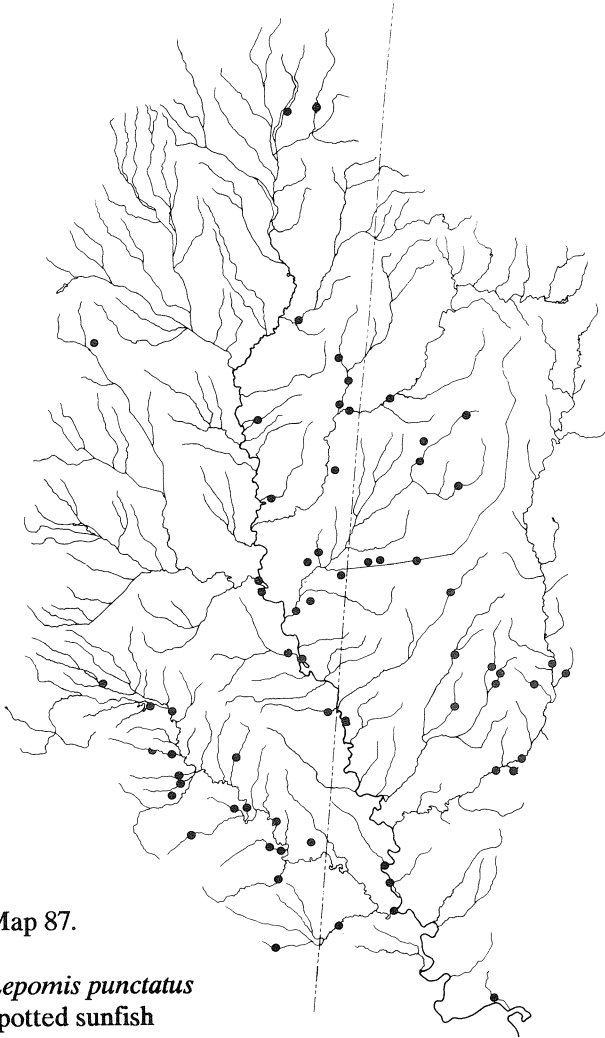
Map 86.

Lepomis microlophus
redear sunfish

Lepomis punctatus (Valenciennes) spotted sunfish

The usual habitat of the spotted sunfish is sluggish portions of clear streams where submerged vegetation or other cover is present. It is affected by the TTW to the extent that its breeding habitat is inundated.

65 Sites: 2, 13, 17, 23, 24, 26, 27, 29, 33, 37, 39, 43, 53, 54, 55, 66, 67, 73, 78, 80, 93-95, 101-103, 107, 108, 110, 124-128, 138, 141, 142, 152, 153, 158, 159, 165, 166, 172, 173, 175, 176, 181, 184, 186, 189, 194, 195, 221, 238, 242, 244, 245, 250, 252, 267, 283, 310, 339, and 346. Map 87.



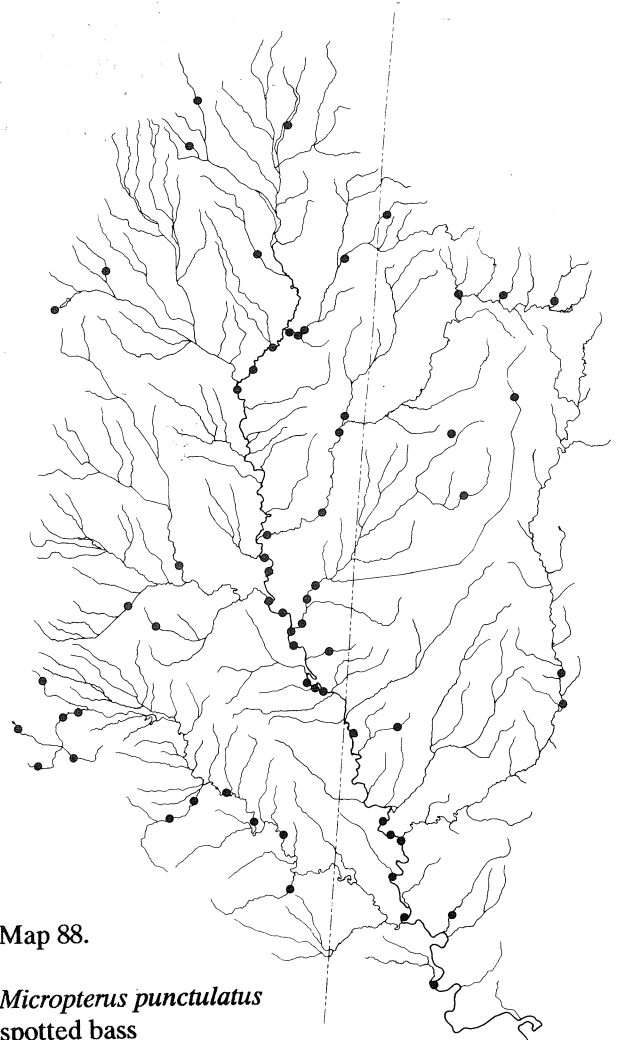
Map 87.

Lepomis punctatus
spotted sunfish

Micropterus punctulatus (Rafinesque) spotted bass

Three subspecies of spotted bass are generally recognized. The local one is *M. p. henshalli* Hubbs and Bailey (1940), commonly known as the Alabama spotted bass. The book, *Black Bass Biology and Management* (Stroud and Clepper, eds., 1975), summarizes much of the copious literature pertaining to *Micropterus*. The Alabama spotted bass is common in streams (Lawrence, 1954), as well as reservoirs (Brown and Tatum, 1962).

63 Sites: 8, 10, 24, 29, 39, 49, 56, 57, 84, 85, 87, 88, 91-93, 95, 97, 106, 110, 122, 123, 137, 138, 149-151, 154, 156-158, 163, 164, 174, 176, 191, 193, 194, 199, 204, 210, 223, 224, 230, 234, 241, 242, 258, 261, 265, 287, 293, 294, 303, 304, 307, 308, 310, 316, 318, 323, 330, 332, and 339. Map 88.



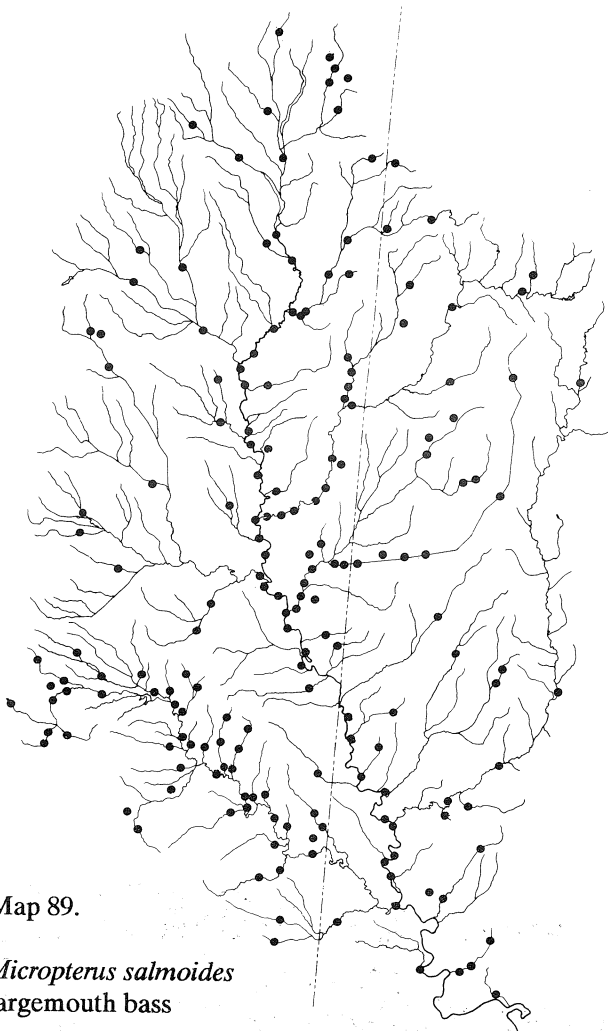
Map 88.

Micropterus punctulatus
spotted bass

Micropterus salmoides (Lacepede) largemouth bass

The largemouth bass, considered by many to be the single most important freshwater sport fish in North America, is ecologically adaptable, as attested by its successful introduction around the world in temperate and tropical zones. The Demopolis, Gainesville, and Aliceville pools are periodically stocked with largemouth bass, including the Florida strain, by the Alabama Department of Conservation and Natural Resources.

182 Sites: 2, 4-6, 8, 10-13, 16, 17, 19, 20, 22-25, 27-31, 35, 39, 40, 42-47, 49, 51, 53, 55, 62, 63, 65, 66, 68, 70-76, 78, 79, 82-90, 92-101, 106, 120, 122, 125-127, 129, 131-134, 137, 138, 140, 146, 148, 151, 153, 154, 156-159, 161, 163-166, 172-174, 176, 177, 179, 180, 182, 186, 188-191, 193-196, 200, 205, 208, 209, 211, 219, 221-224, 226, 229-232, 234, 235, 238, 239, 242-246, 249, 250, 255, 257, 262, 264, 267, 268, 271, 276, 278, 279, 282, 284, 285, 287, 289, 291, 295, 296, 303, 304, 307, 308, 310-312, 314-316, 320-323, 325, 329, 330, 335, 336, 338, 345, 347, 348, 349, and 351. Map 89.



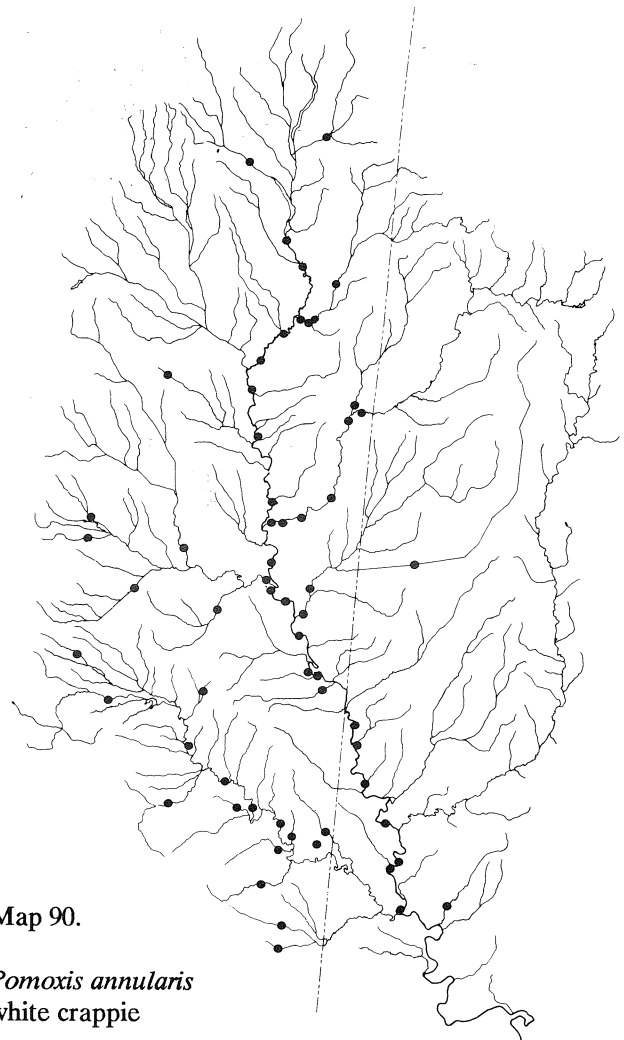
Map 89.

Micropterus salmoides
largemouth bass

Pomoxis annularis Rafinesque white crappie

The white crappie occurs in quiet waters of the large streams and impoundments, and in deep pools of small streams. Its numbers increased considerably in the lower part of the upper Tombigbee following impoundment by the TTW, especially in the pool at Pickensville (Boschung, 1984; 1987).

61 Sites: 10, 16, 17, 19, 23, 25, 27-29, 33, 39, 49, 57, 68, 71, 79, 82, 93, 95, 96, 122, 132, 134, 138, 146, 150, 151, 156, 158, 163, 188, 193-196, 204, 208-210, 223, 230-232, 235, 241, 242, 250, 266, 281, 282, 284, 303, 304, 307, 308, 310, 312, 322, 325, 329, and 343. Map 90.



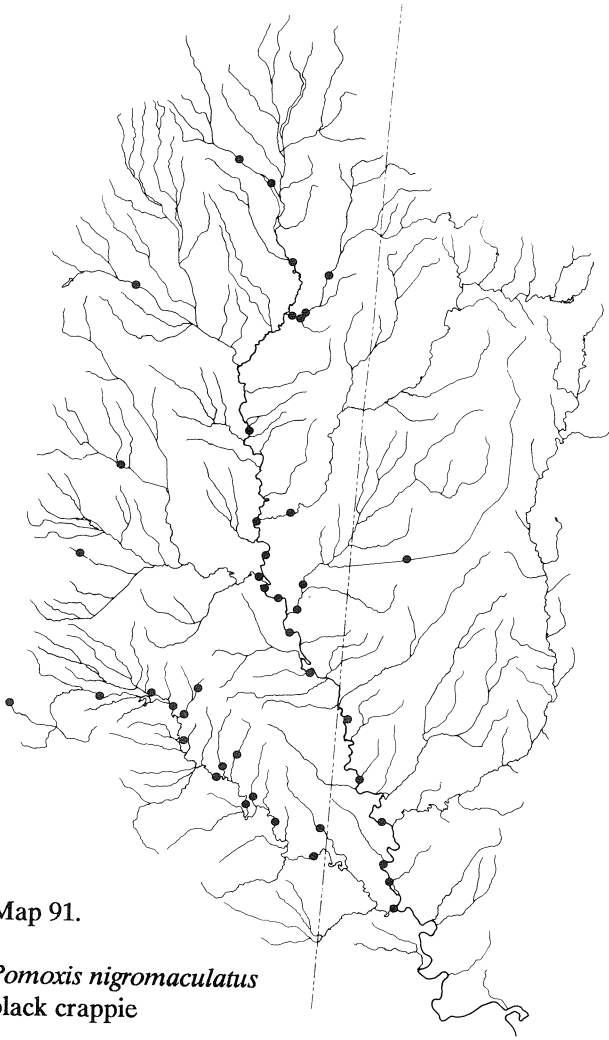
Map 90.

Pomoxis annularis
white crappie

Pomoxis nigromaculatus (Lesueur) black crappie

The black crappie occupies habitats similar to that of the white, but is less tolerant of turbidity and siltation. Its numbers are not expected to increase to the same extent as those of the white crappie.

43 Sites: 19, 22, 29, 31, 39, 43, 45, 49, 68, 70, 71, 73, 75, 82, 92-95, 122, 132, 138, 150, 156, 158, 163, 188, 193-195, 206, 212, 223, 229, 232, 282, 291, 307, 308, 310, 312, 322, 328, and 329. Map 91.



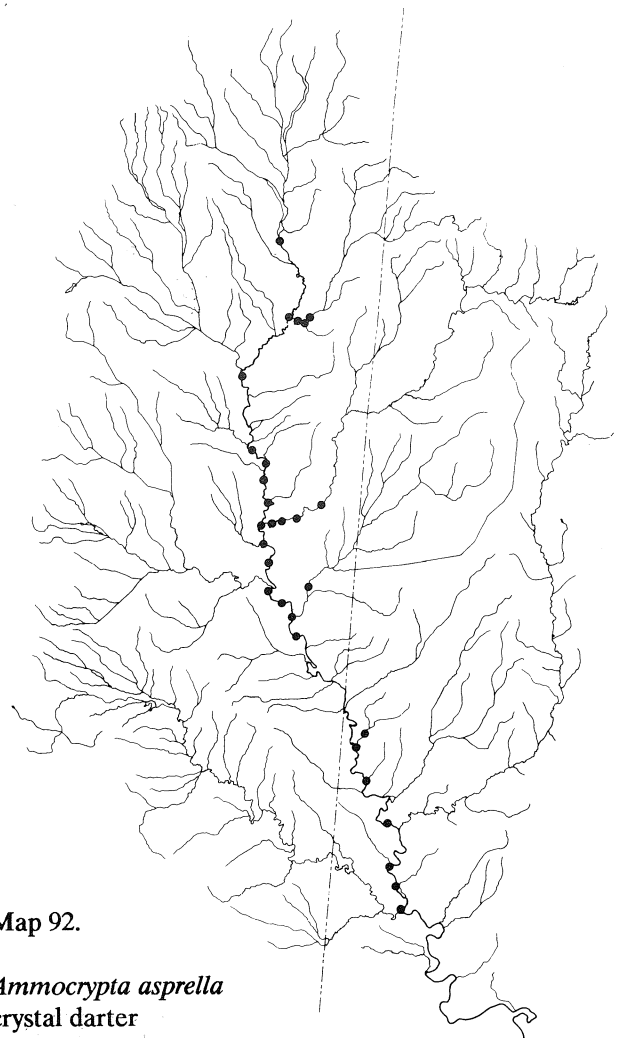
Map 91.
Pomoxis nigromaculatus
black crappie

PERCIDAE — perches

Ammocrypta asprella (Jordan) crystal darter

Ammocrypta asprella is a darter of large clear streams that have shifting sand or gravel bottoms. With the impoundment of the river proper, essentially all of the preferred habitat of the crystal darter in the upper Tombigbee was destroyed. The sites of the few records in the lowermost parts of the Luxapallila, Buttahatchee, and Bull Mountain creeks were inundated by the TTW. Even if small populations do survive in tributaries, they will be isolated by the pool barriers. There is little expectation that the crystal darter will survive in the upper Tombigbee. Bauer and Clemmer (1983) compiled a comprehensive status report on the crystal darter.

29 Sites: 93-95, 122, 132, 134, 135, 156, 157, 163, 193, 194, 223, 224, 229-232, 234, 266, 268, 270, 276, 287, 306-308, 310, and 335. Map 92.

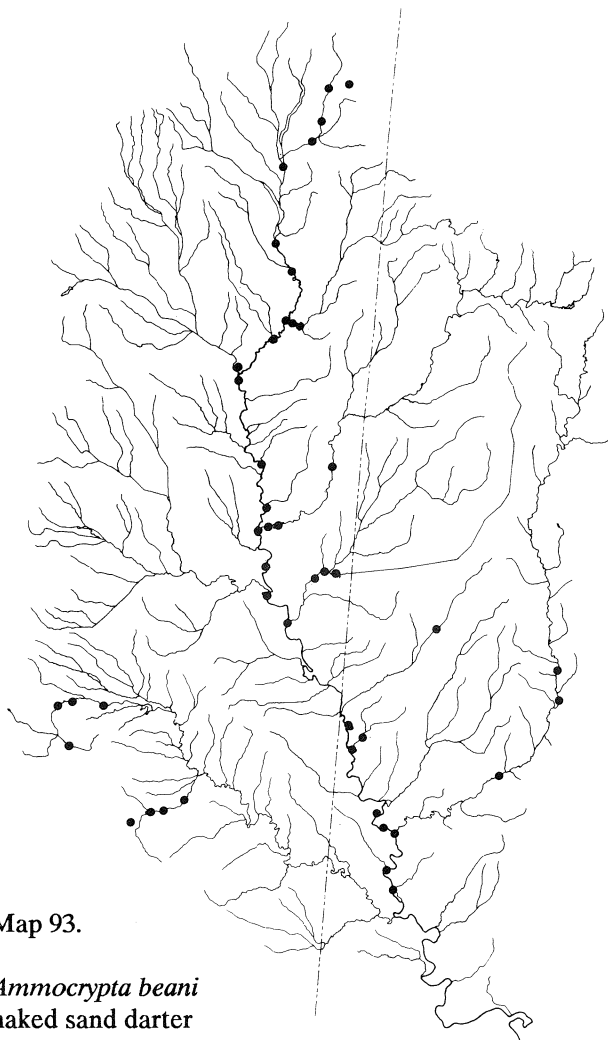


Map 92.
Ammocrypta asprella
crystal darter

***Ammocrypta beani* Jordan** **naked sand darter**

The habitat of *Ammocrypta beani* is small and medium-sized streams and rivers that have clean water, moderate current, and shifting sand. The life history of the naked sand darter was treated in Heins and Rooks (1984). The main channel habitat was destroyed by the TTW; additional effects of the TTW depend upon the extent to which the habitat is inundated.

45 Sites: 56-58, 62, 82, 85, 87, 88, 94, 95, 97, 101, 106, 110, 122, 123, 134, 135, 138, 140, 157, 164, 167, 179, 194, 223, 229-231, 239, 266, 270, 287, 288, 304, 306-308, 322, 325, 335, 343, and 346-348. Map 93.



Map 93.

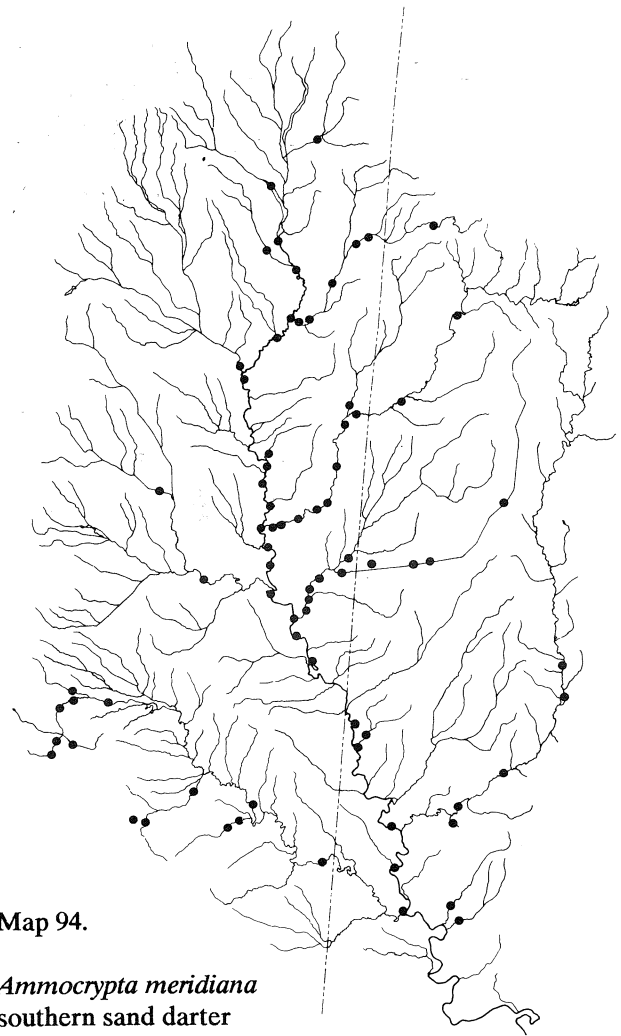
Ammocrypta beani
naked sand darter

***Ammocrypta meridiana* Williams** **southern sand darter**

Ammocrypta vivax Hay, in part

Ammocrypta meridiana and *A. beani* have similar habitat and often occur at the same sites in the upper Tombigbee. The effects of the TTW on this species depends upon the extent that the habitat is inundated.

76 Sites: 9, 10, 22, 35, 36, 40, 56, 61, 62, 82, 83, 85, 87-90, 93, 95, 98, 99, 101, 106, 110, 122, 134, 135, 138, 153, 156-158, 161, 163, 164, 170, 179, 183, 188-190, 194, 203, 211, 223, 224, 229-232, 234, 235, 239, 241, 242, 250, 252, 257, 266, 268, 270, 272, 287, 288, 304, 306, 307, 310, 312, 316, 317, 321-323, 325, 328, and 343. Map 94.



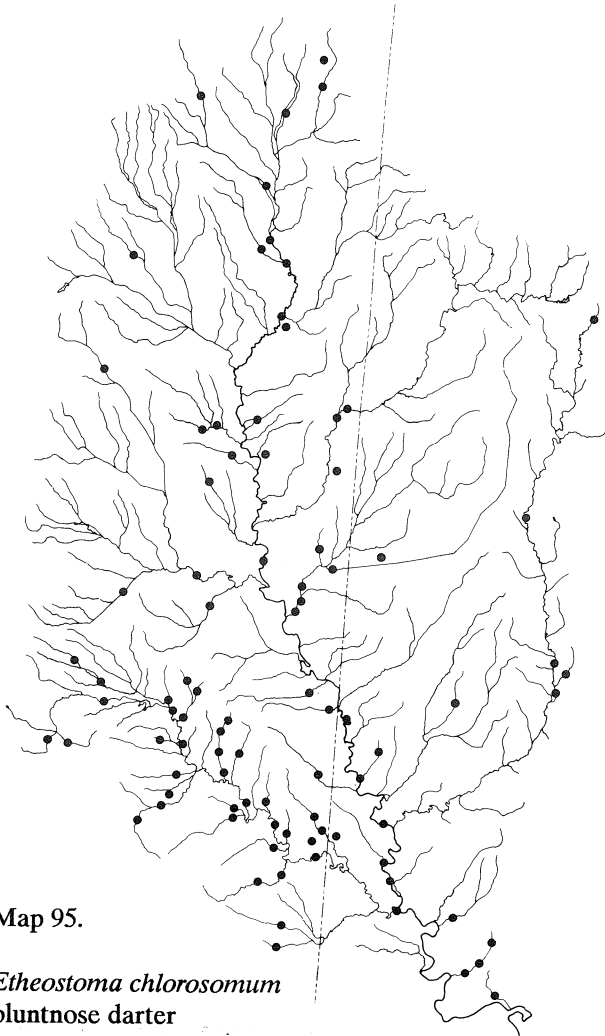
Map 94.

Ammocrypta meridiana
southern sand darter

Etheostoma chlorosomum (Hay) bluntnose darter

The bluntnose darter inhabits sluggish, low-gradient streams, lower channels of large rivers, sloughs, backwaters and small lakes where the current is slow and the bottom varies from mud to sand (Bart and Cashner, 1986). Eggs are laid on plants and other materials over a sandy bottom (Page and Retzer, 1982). The species is affected by the TTW to the extent that its breeding habitat is inundated.

89 Sites: 2, 4-6, 9, 16-20, 22-25, 27-30, 33, 35, 40, 43, 45-48, 53, 55, 57, 61, 68-74, 78, 79, 82, 88, 89, 93-95, 106, 108, 110, 114, 121, 122, 124, 131-133, 138, 142, 146, 158, 161, 163, 166, 179, 186, 196, 203, 204, 219, 223, 228, 238, 241, 250, 269, 271, 279, 280, 283, 295, 305, 306, 322, 323, 325, 328, 332, 339, 347, and 351. Map 95.

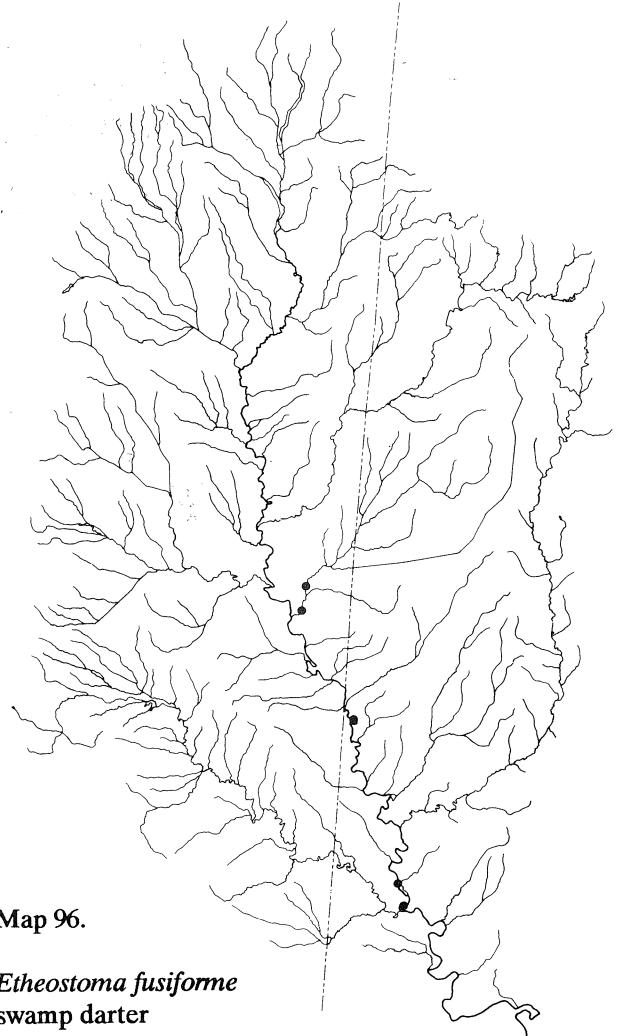


Map 95.
Etheostoma chlorosomum
bluntnose darter

Etheostoma fusiforme (Girard) swamp darter

The records herein extend the known range of the swamp darter in the Tombigbee system by about 248 rmi. Based on UAIC specimens, Bassetts Creek in Washington County, Alabama, was heretofore the farthest point up the Tombigbee that the species was known to occur. In the upper Tombigbee, *E. fusiforme* is known only from the lower Luxapallila (Kelly, 1975) and from the Gainesville and Aliceville pools where "they are abundant in some littoral areas..." (Timmons, 1982).

5 Sites: 93, 94, 138, 158, and 163. Map 96.



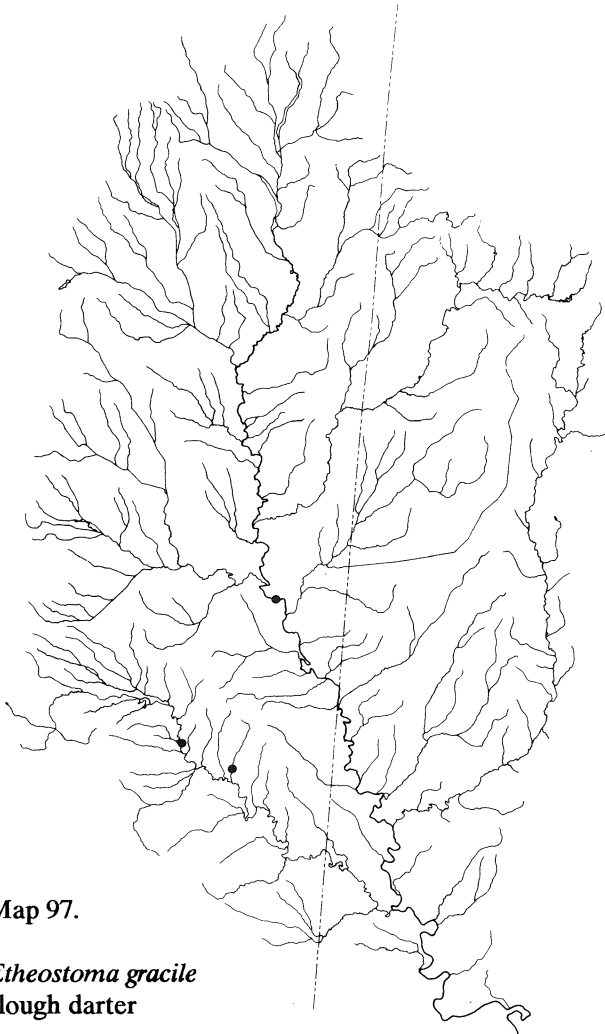
Map 96.
Etheostoma fusiforme
swamp darter

***Etheostoma gracile* (Girard)**

slough darter

The slough darter, long thought to be extirpated from Mobile basin, was rediscovered in the Noxubee system by Walter Hubbard (1987). The record at Site 193 dates to August 18, 1931 (MMNS). *Etheostoma gracile* inhabits slow or moderately flowing waters with little or no aquatic plants and with predominant mud, silt, or sand substrate (Collette, 1962).

3 Sites: 42 and 68. and 193. Map 97.



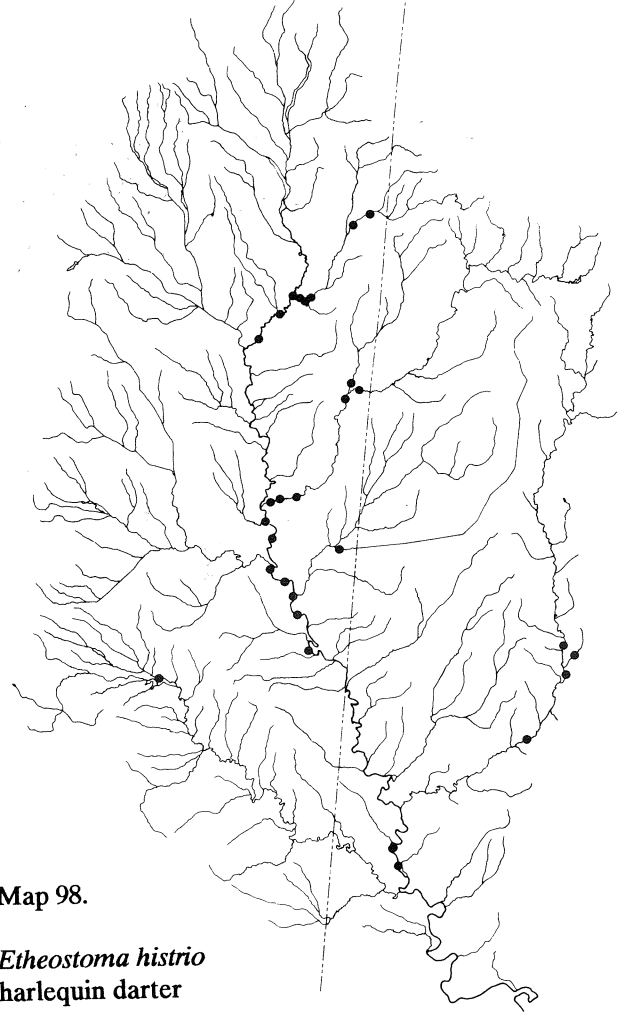
Map 97.

Etheostoma gracile
slough darter

***Etheostoma histrio* Jordan and Gilbert** harlequin darter

Etheostoma histrio inhabits the sluggish parts of large to medium-sized streams having a variety of bottom types. It is often found in heavy detritus. The harlequin darter has apparently disappeared from the main channel area following impoundment by the TTW (Timmons, 1982; Boschung, 1984, 1987).

29 Sites: 75, 94, 95, 103, 106, 108, 110, 151, 156, 157, 179, 193, 194, 223, 224, 230-232, 241, 242, 250, 303, 304, 306-308, 310, 316, and 317. Map 98.



Map 98.

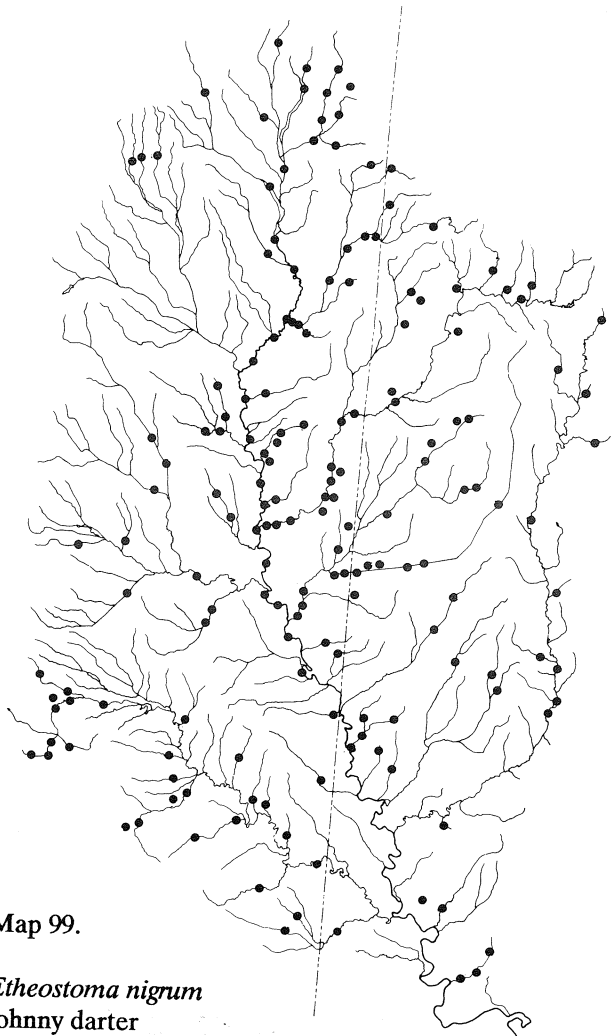
Etheostoma histrio
harlequin darter

Etheostoma nigrum Rafinesque

johnny darter

Etheostoma nigrum is the most ubiquitous darter in the upper Tombigbee. It is abundant in all sorts of habitats with moderately clear water, but typically seems to avoid riffles in favor of sandy pools. It is affected by the TTW to the extent that its habitat is inundated.

169 Sites: 4-6, 10, 12, 13, 15, 16, 22, 25, 28, 30, 31, 35, 37, 43, 53, 55, 56, 61, 62, 66, 70, 82-91, 98, 105, 106, 110-112, 114, 116, 118, 119, 121, 125, 126, 128, 130, 131, 133-137, 140-142, 148, 151, 154, 156, 158, 161-163, 168, 169, 171-177, 179, 180, 182-184, 188-190, 193, 194, 196, 197, 203, 204, 207, 208, 211, 216, 217, 223, 226, 227, 229-233, 235-239, 241, 247-250, 252, 253, 256, 258, 259, 261, 262, 264, 266-268, 271-275, 277-280, 282, 284, 285, 299, 300, 302-304, 306-309, 311, 312, 314-319, 321-323, 325, 328, 332, 335, 337, 338, 340, 341, and 343-349. Map 99.



Map 99.

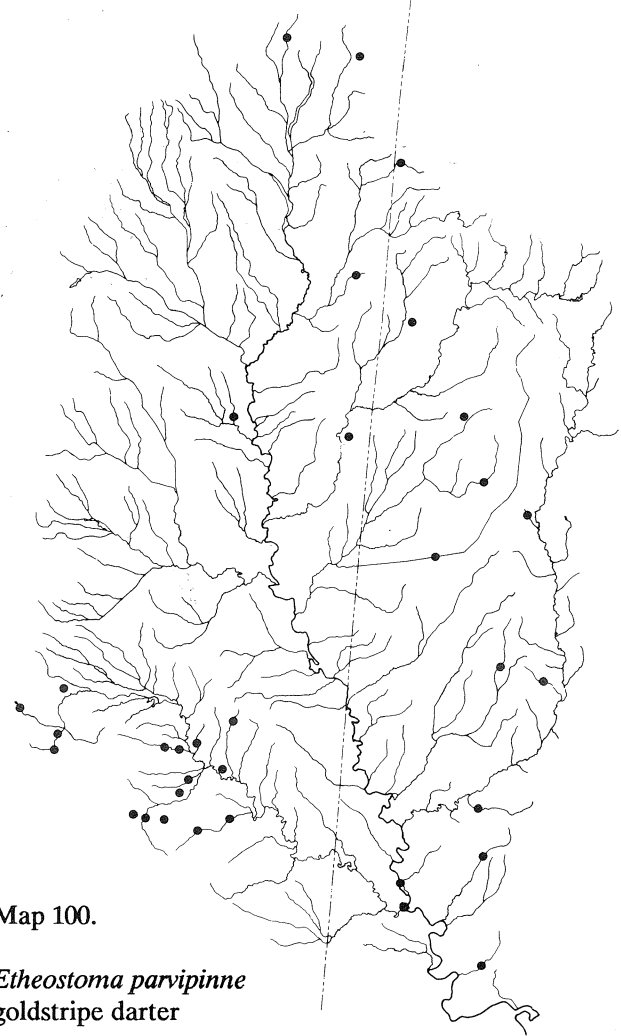
Etheostoma nigrum
johnny darter

Etheostoma parvipinne Gilbert and Swain

goldstripe darter

Etheostoma parvipinne is found in the low-order streams, often in springs or small, spring-influenced streams where there is abundant vegetative cover. It should be little influenced by the TTW, as no part of its life cycle requires the larger streams.

34 Sites: 5, 11, 36, 37, 47, 50, 54, 55, 59, 61, 62, 65-86, 89, 90, 92-94, 100, 107, 113, 128, 174, 177, 189, 240, 246, 277, 311, 315, 338, and 350. Map 100.



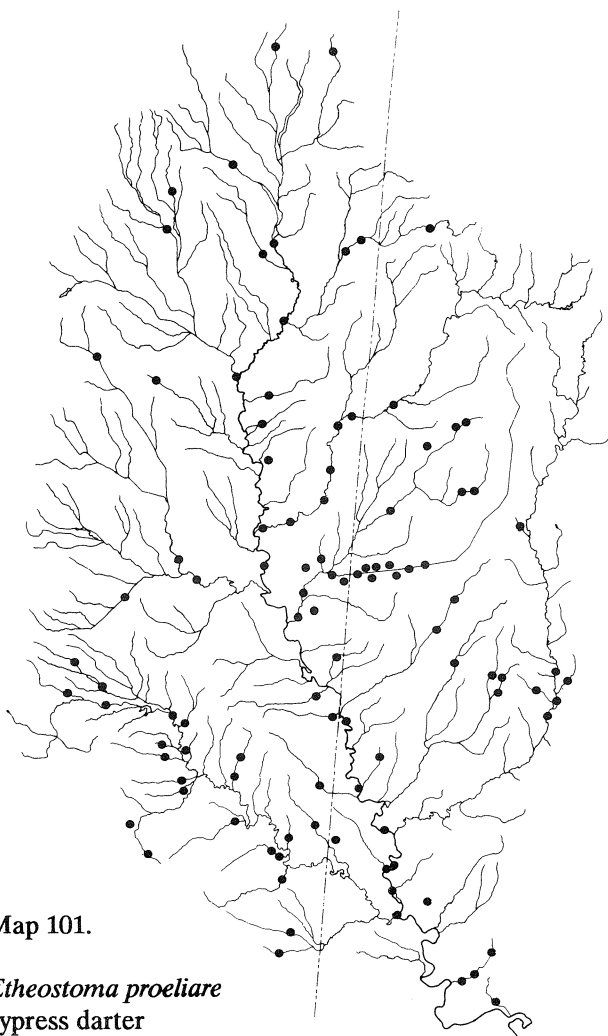
Map 100.

Etheostoma parvipinne
goldstripe darter

Etheostoma proeliare (Hay) cypress darter

The cypress darter is common in streams, swamps, and backwaters where the bottom is soft and detritus and aquatic vegetation abound (Burr, 1980). Burr and Page (1978) stated that it is the presence of leaves and/or vegetation that is important to *E. proeliare*, rather than the physical attributes of pools and riffles.

102 Sites: 2, 4, 5, 6, 12, 16-18, 20, 24, 26-28, 35, 42, 43, 53, 54, 62, 64, 67-70, 73, 78, 79, 82, 83, 93-96, 105-108, 110, 113, 122, 125-128, 131-133, 138, 140-142, 146, 148, 158, 159, 163, 165, 166, 171, 173-177, 179, 181-189, 203, 204, 210, 220, 223, 230, 232, 237, 239, 241, 250, 252, 271, 281, 283, 285, 287, 297, 301, 306, 316, 317, 321, 323, 325, 329, 338, and 352. Map 101.



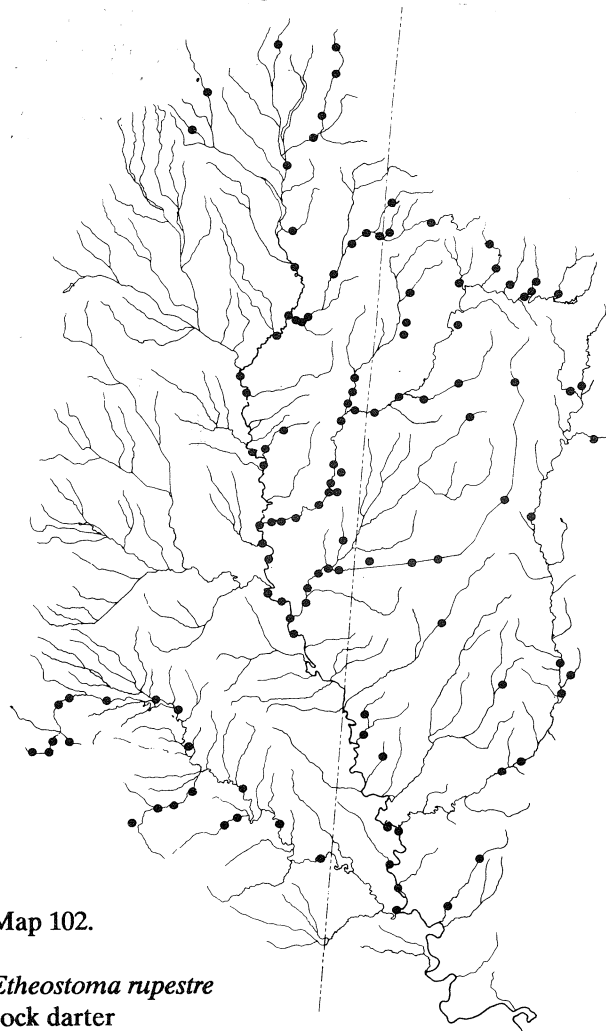
Map 101.

Etheostoma proeliare
cypress darter

Etheostoma rupestre Gilbert and Swain rock darter

The rock darter is endemic to Mobile basin and is present in all systems except the upper Tallapoosa. In the upper Tombigbee, it is common in the Noxubee River system and in all streams of the Fall Line Hills physiographic region. It is usually collected on coarse gravel riffles or slab rock. The species is vulnerable in the TTW to the extent that its habitat is inundated.

117 Sites: 10, 11, 22, 29, 35, 36, 41, 56-58, 62, 68, 73, 75, 82, 85, 87-91, 93-95, 97, 101, 103, 106, 108, 110, 114, 116, 117, 120, 122, 126, 133, 135, 136, 140, 156, 157, 161, 163, 164, 167, 168, 175, 179, 183, 188-191, 193, 194, 223, 224, 229-232, 234-239, 241-244, 246, 247, 249-252, 254-256, 258-265, 270, 272, 274, 276, 284, 287, 304, 306-308, 310, 312, 316-322, 326, 330, 332, 335, 338, 343, 346, 349, and 352. Map 102.



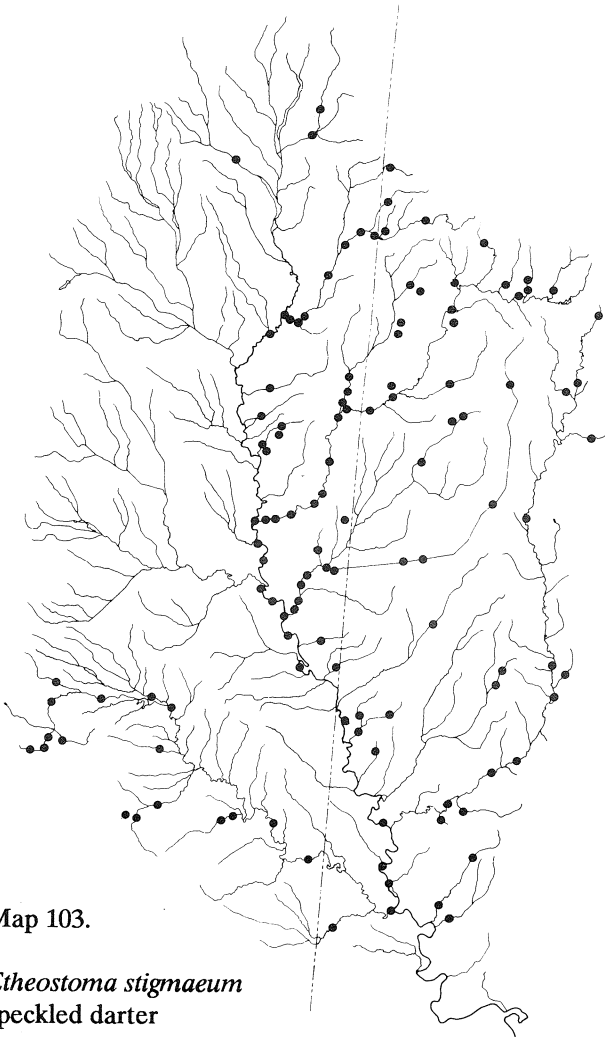
Map 102.

Etheostoma rupestre
rock darter

Etheostoma stigmaeum (Jordan) speckled darter

The speckled darter is most often found in relatively clear water in the sandy parts of pools below riffles. It tends to avoid sluggish, low-gradient streams (Howell, 1980). It is affected by the TTW to the extent that its habitat is inundated.

121 Sites: 9-11, 13, 22, 29, 35, 36, 57, 61, 62, 67, 73, 75, 82, 83, 87-91, 93-95, 98-101, 103, 106, 108, 110, 114, 116, 117, 120-122, 126, 127, 133, 135-138, 140, 147, 151, 154, 156-158, 161, 163, 164, 166, 167, 169, 172, 174, 175, 179, 188-191, 193, 194, 223, 224, 229-232, 234, 235, 239, 241-244, 246-253, 255-258, 260-265, 271-274, 283, 285, 304, 306-308, 310, 312, 315-321, 329, 343, and 346. Map 103.



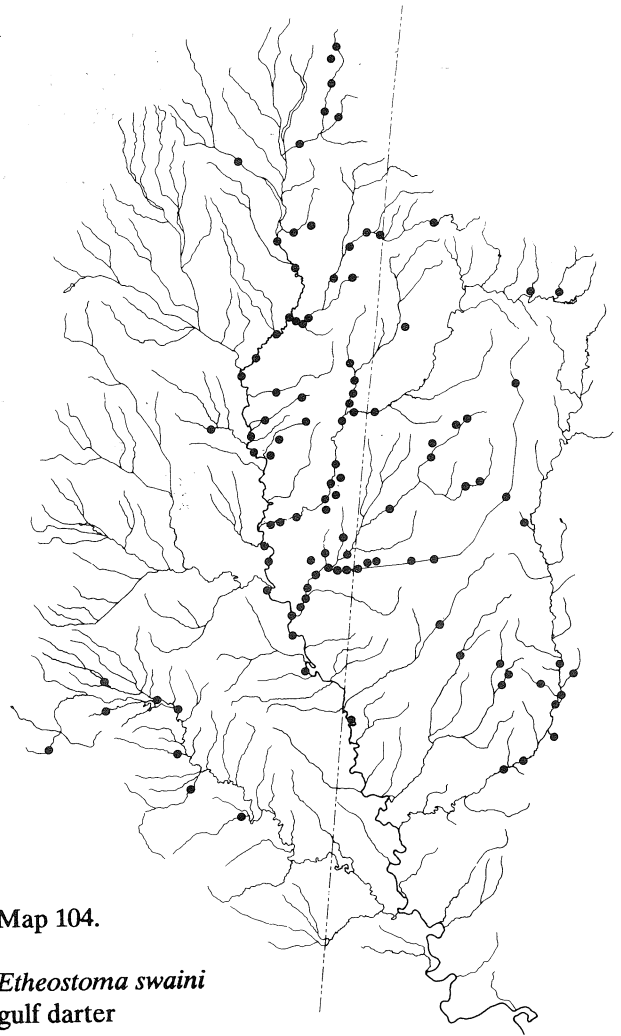
Map 103.

Etheostoma stigmaeum
speckled darter

Etheostoma swaini (Jordan) gulf darter

Etheostoma swaini has a distribution in the upper Tombigbee very similar to that of *E. stigmaeum*. It occupies the riffles and sandy area usually where there is good vegetative cover. The gulf darter is vulnerable in the TTW to the extent that its habitat is inundated.

106 Sites: 35, 56, 66, 73, 75, 78, 81, 90, 101, 103-108, 110, 113, 125-128, 138, 140, 151, 156-158, 161, 163-168, 170-177, 179, 180, 182-184, 188-191, 194, 223, 224, 230-239, 241-246, 250, 251, 263, 265, 271, 273, 275, 276, 280, 282, 283, 285, 287, 303, 304, 306-308, 310-312, 316, 317, 319, 321, 322, 325-327, 329, 342, 345-347, 351, and 352. Map 104.



Map 104.

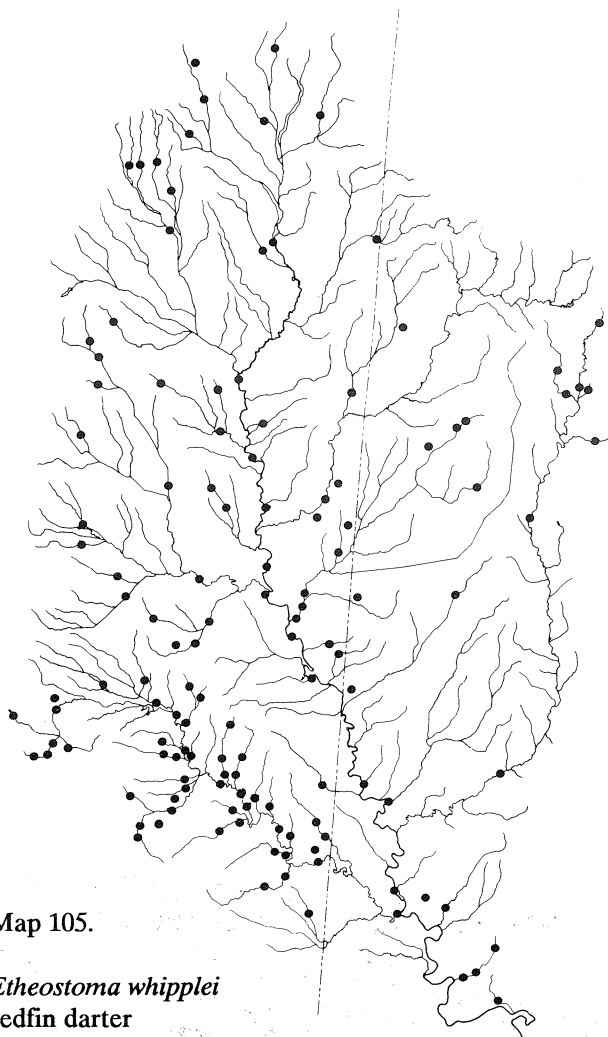
Etheostoma swaini
gulf darter

Etheostoma whipplei (Girard) redfin darter

Hay (1881) described *Poecilichthys artesia* from Catawba Creek at Artesia, Lowndes County, Miss. It was subsequently considered one of four subspecies of *Etheostoma whipplei* (Hubbs and Black, 1941). The complex is presently considered divisible into two subspecies (Retzer et al., 1986) and the upper Tombigbee form is *E. w. artesia* (Hay).

The redfin darter inhabits small to medium-sized riffles of low- to medium-gradient streams where there is a mixture of sand and gravel. *E. whipplei* is affected by the TTW to the extent that its habitat is inundated.

131 Sites: 2, 4-6, 10, 12, 14, 19, 20, 22-31, 34-36, 40-43, 45, 46, 48, 49, 53-55, 57, 59-61, 63, 65-73, 75, 76, 78, 86-94, 101, 114, 116-121, 129, 131, 132, 141, 144, 148, 150, 154, 156, 158, 161, 162, 163, 168, 169, 173-175, 177, 194, 197, 199-201, 203-205, 208, 209, 213, 215, 218, 220, 222, 223, 227, 228, 233, 237, 238, 243, 247, 266, 276, 278, 279, 281, 283, 287, 290, 297, 299-302, 319, 323, 325, 330, 332, 333, 336, 338, and 346. Map 105.



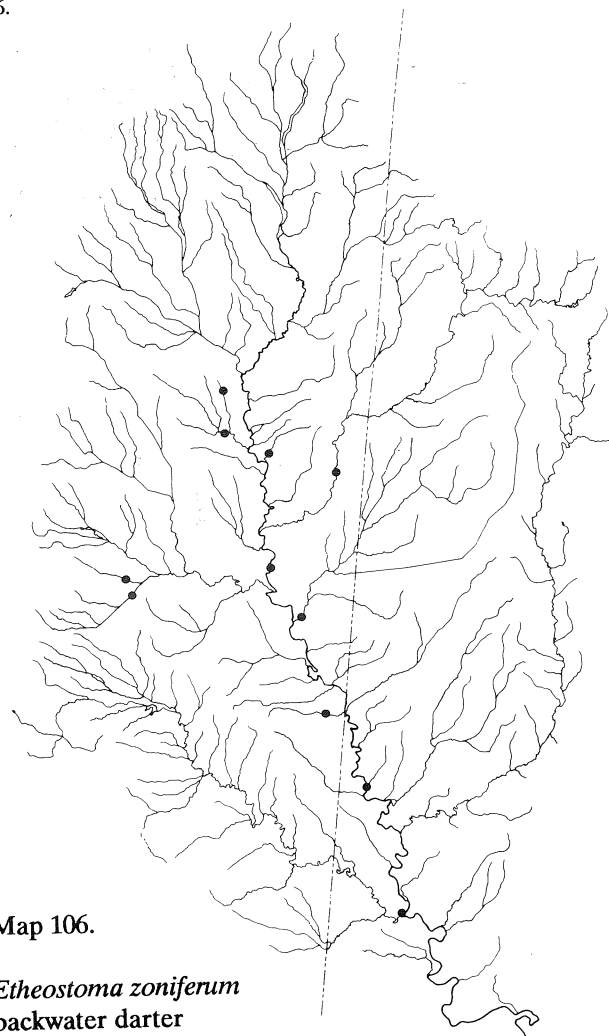
Map 105.

Etheostoma whipplei
redfin darter

Etheostoma zoniferum (Hubbs and Cannon) backwater darter

Etheostoma zoniferum, a close relative to *E. gracile*, is endemic to Mobile basin and it ranges in a narrow belt in Alabama and Mississippi below the Fall Line. It inhabits pools in small streams of slow to moderate current. It is usually captured over sand or silt substrates and may be taken in aquatic vegetation (Kuchne and Barbour, 1983). The backwater darter is vulnerable to the TTW to the extent that its habitat is inundated.

11 Sites: 93, 132, 143, 158, 204, 205, 223, 239, 272, 278, and 279. Map 106.



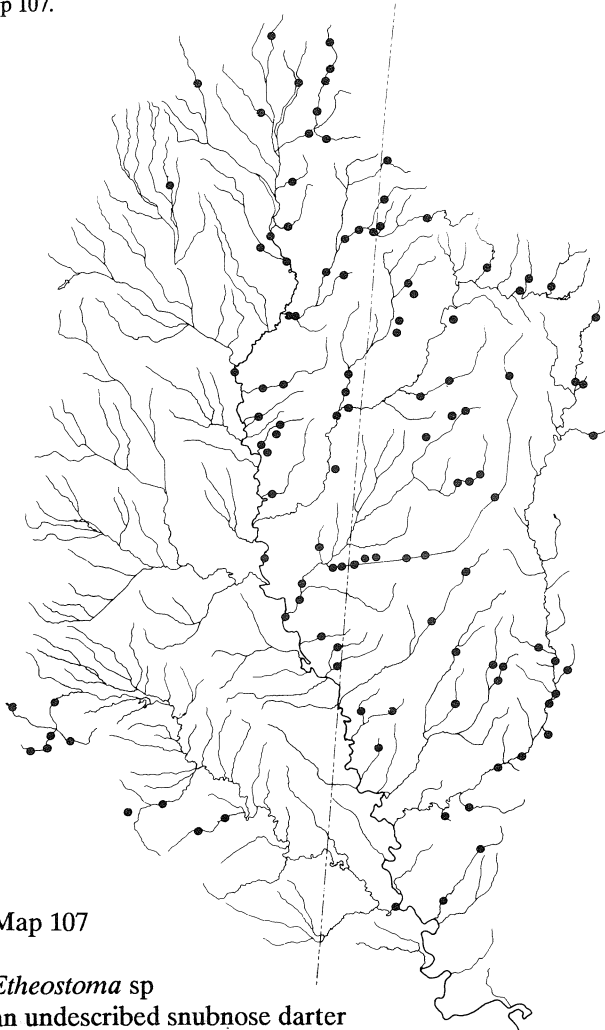
Map 106.

Etheostoma zoniferum
backwater darter

Etheostoma sp. an undescribed snubnose darter

This undescribed darter occurs in a variety of habitats, primarily in the Fall Line Hills physiographic region. It has been collected in slow to moderately fast currents over sand, gravel, hard clay, or bedrock, and in or out of vegetative cover. On several occasions, it was taken in swamps over a mud bottom. It is not expected to seriously suffer adverse consequences of the TTW.

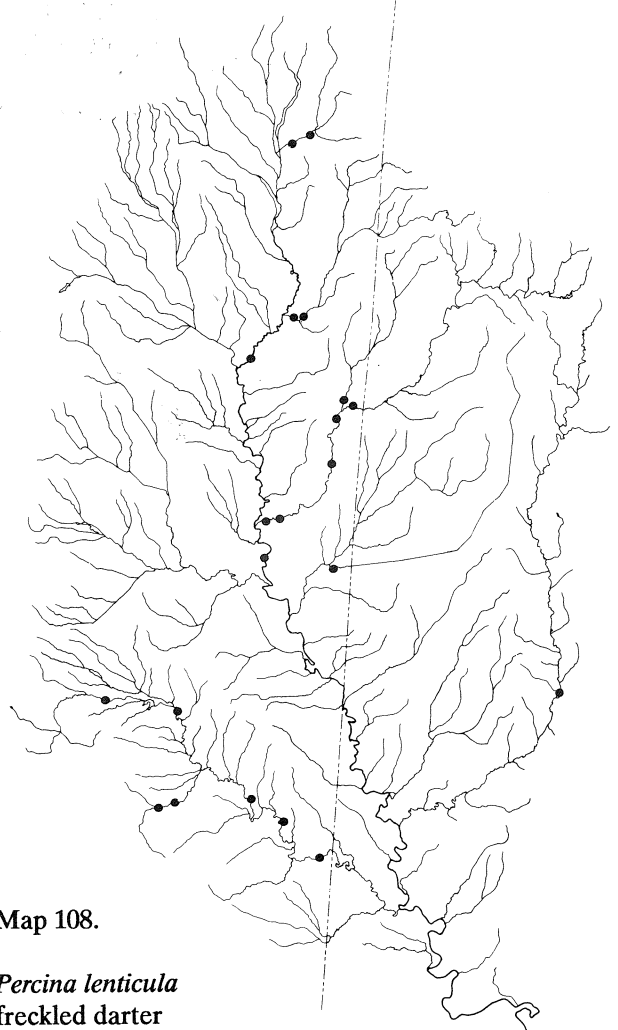
112 Sites: 10, 11, 36, 37, 57, 62, 87-93, 98, 100, 101, 103-106, 108, 110, 111, 116, 119-121, 124-128, 133, 136, 137, 140, 141, 147, 148, 154, 157, 161, 163, 166, 173-180, 182-184, 188-191, 223, 238, 241, 243, 244, 246-250, 254-256, 259, 262, 264, 265, 267, 271-274, 283, 285-287, 301, 307, 308, 311, 312, 315-323, 325, 326, 332, 334, 336, 338, 340, 343, 344, 346, 347, 349, and 352. Map 107.



Percina lenticula Richards and Knapp freckled darter

The freckled darter occurs in the main channels of large to medium-sized rivers, usually, where the current is strong. It seeks refuge under logs or boulders and is difficult to dislodge. Most of our knowledge concerning the biology of this species is contained in a report by Bauer and Clemmer (ca 1983). The TTW probably has destroyed the habitat of the freckled darter in the upper Tombigbee River proper. Distributional evidence indicates that populations of the darter may be sustained in the larger tributaries.

21 Sites: 22, 29, 40, 57, 58, 73, 82, 106, 179, 223, 230, 231, 239, 241, 242, 250, 303, 308, 310, 342, and 343. Map 108.

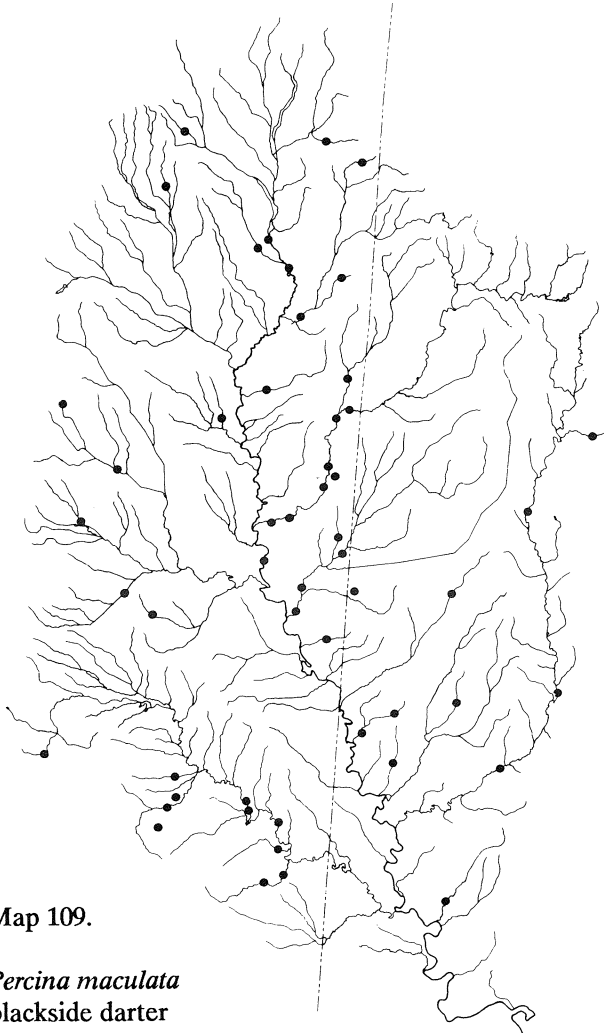


***Percina maculata* (Girard)**

blackside darter

Beckham (1986) published a redescription of *Percina maculata*. The blackside darter is often found in the faster currents of small to medium-sized streams of low to moderate gradient and sand or gravel bottoms; however, it is not uncommon in backwaters among accumulations of sticks, leaves and other debris (Pflieger, 1975). It is affected by the TTW to the extent that its habitat is inundated.

51 Sites: 10, 24, 25, 27, 29, 40, 53, 55, 57, 59, 90, 101, 106, 114, 116, 124, 130, 135, 137, 141, 154, 158, 162, 163, 168, 170, 199, 204, 209, 212, 214, 223, 231, 232, 237-239, 241, 244, 250, 277, 285, 301, 310, 311, 314, 322, 323, 325, 330, and 344. Map 109.



Map 109.

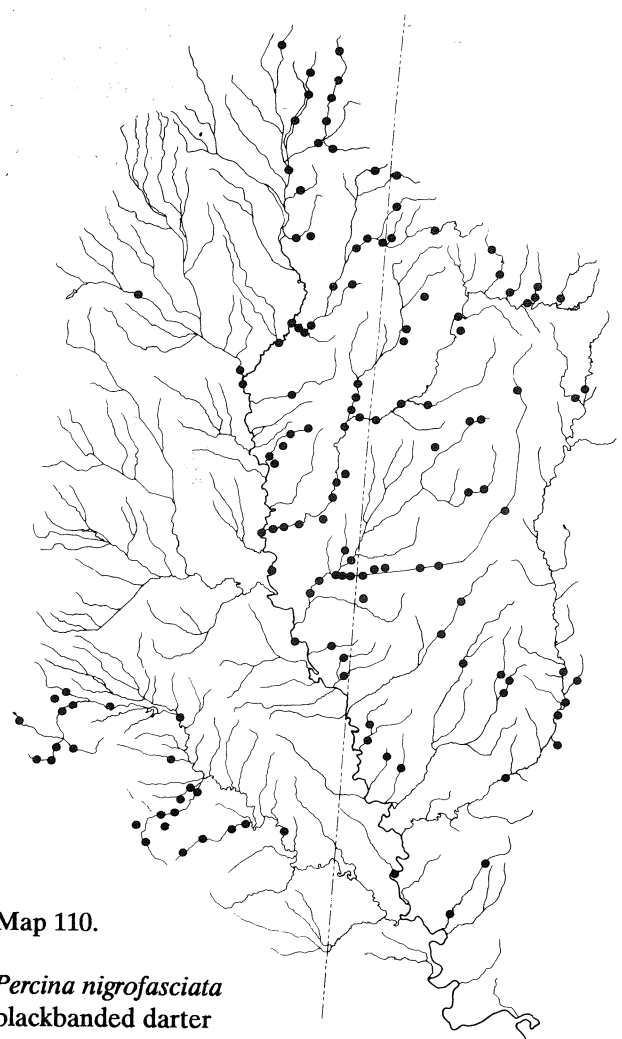
Percina maculata
blackside darter

***Percina nigrofasciata* (Agassiz)**

blackbanded darter

Percina nigrofasciata is one of the most ubiquitous and common darters in the southeastern United States. Compared with several other members of the genus, it has the greatest niche breadth based on reproduction, habitat preference, and food habits (Wieland, 1983).

137 Sites: 10, 11, 29, 35-38, 54-59, 62, 63, 67, 73, 82, 83, 85-92, 95, 101, 104-106, 108, 110, 117, 120, 125, 126-128, 130, 133, 135, 136, 140, 141, 147, 148, 154, 156, 162-164, 167, 168, 170, 173-177, 179, 180, 182-184, 188-191, 223, 229-233, 235, 237, 238, 241-244, 246-248, 250-252, 254, 256, 257, 259-265, 271-275, 286-288, 291, 304, 306-308, 310-312, 314-321, 326, 327, 334, 335, 338-341, 343, 344, 346, 347, 349, and 352. Map 110.



Map 110.

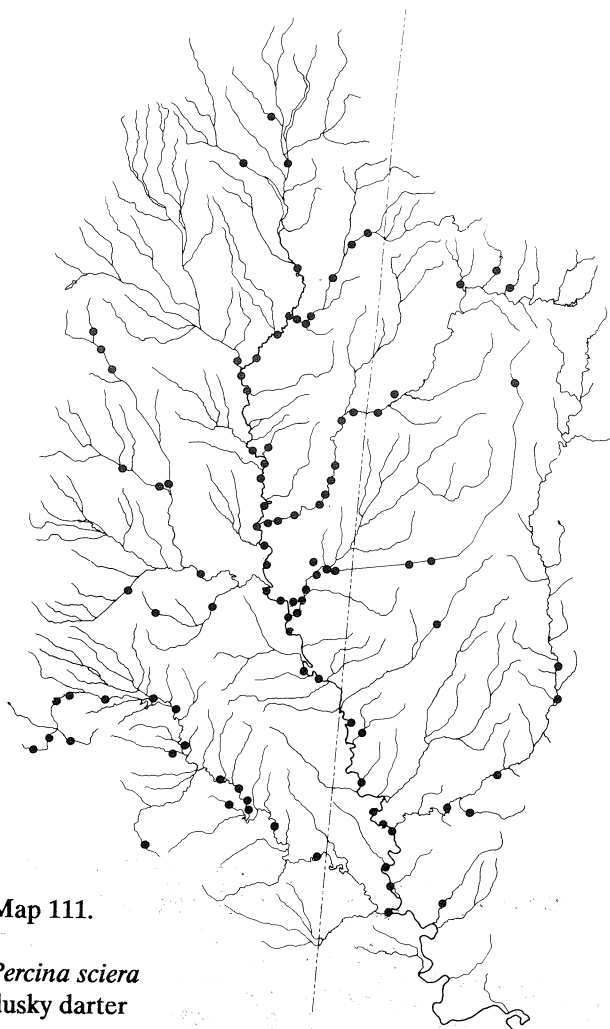
Percina nigrofasciata
blackbanded darter

Percina sciera (Swain)

dusky darter

In Mobile basin, the dusky darter is limited to the upper Coastal Plain in the Tombigbee River system. It is very similar to *Percina nigrofasciata*; field identifications are made primarily on the basis of color pattern. The dusky darter is usually collected over coarse gravel in deep runs and riffles; however, it tolerates greater ranges of habitat with regards to size of stream compared with *P. nigrofasciata*. Where the two occur together, *P. sciera* is the more abundant (Suttkus and Ramsey, 1967). The TTW is expected to impact adversely on the big river habitat of *P. sciera*.

99 Sites: 10, 22, 29, 34, 39-41, 49, 64, 66, 68, 73, 75, 82, 85, 87-89, 91, 93-95, 97, 99-101, 106, 110, 122, 123, 132, 135, 138, 140, 149, 151, 156-158, 161, 163-165, 167, 179, 188, 189, 191-194, 196, 199, 203, 204, 211, 212, 215, 219, 220, 222-224, 229-232, 234, 235, 237, 239, 241, 250, 251, 253, 258, 259, 261, 266, 268, 270, 272, 276, 284, 287, 288, 303, 304, 306-308, 310, 312, 316, 317, 322, 329, 335, and 336. Map 111.



Map 111.

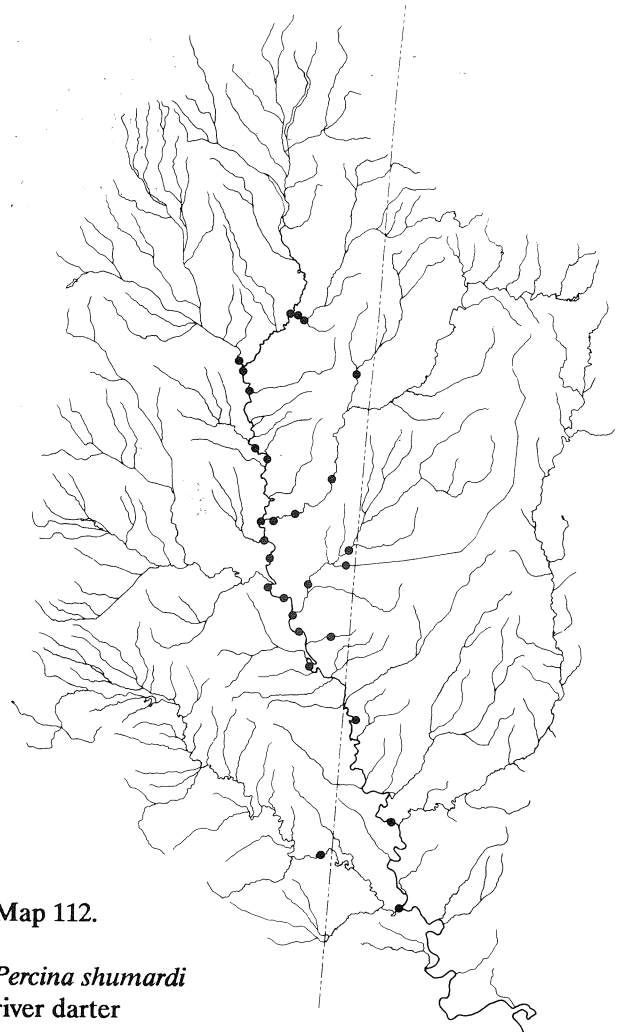
Percina sciera
dusky darter

Percina shumardi (Girard)

river darter

Percina shumardi is a big-river darter. It is almost invariably found in deep chutes and riffles where current is swift and the bottom is composed of coarse gravel or rock (Gilbert, 1980). This habitat is scarce in the tributaries; therefore, the river darter undoubtedly will be extirpated from the upper Tombigbee River proper, perhaps from the entire system.

28 Sites: 22, 93, 122, 138, 151, 154, 156, 157, 163, 170, 179, 193, 194, 223, 224, 229, 230, 232, 237, 244, 270, 276, 284, 287, 288, 306, 307, and 308. Map 112.



Map 112.

Percina shumardi
river darter

***Percina vigil* (Hay)**

saddleback darter

Ioia vigil Hay

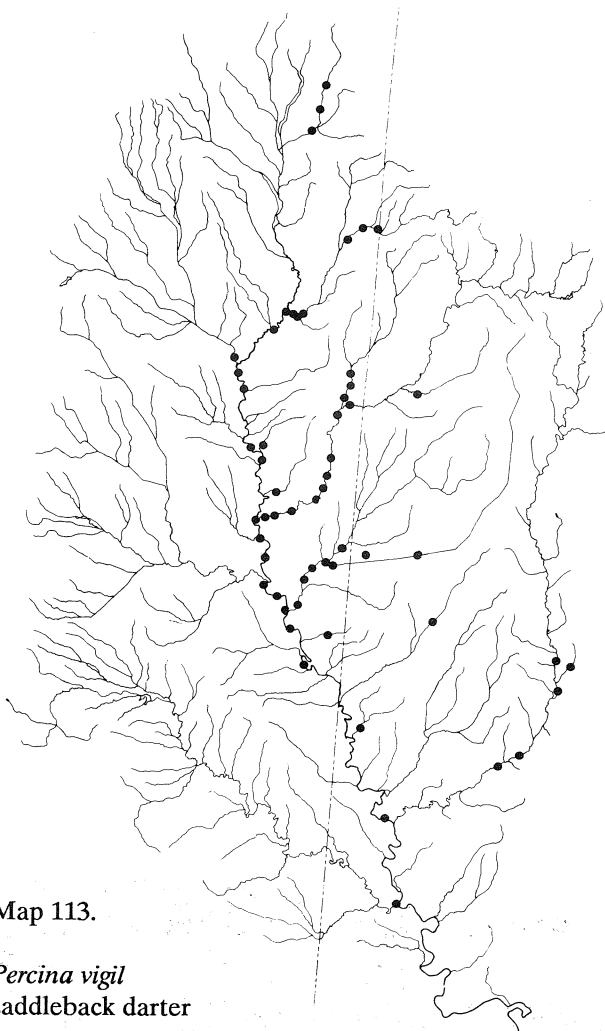
Percina uranidea (Jordan and Gilbert), in part

Percina ouachitae (Jordan and Gilbert).— recent authors

Information regarding this species is retrieved under the name *Percina uranidea*, and, more recently, under *P. ouachitae*; however, Suttkus (1985) argued that the correct scientific name is *P. vigil*.

Percina vigil is usually common on gravel and sand riffles, as well as bedrock of large to medium-sized rivers. It was adversely impacted by the TTW, but it will probably survive in the large Fall Line Hills tributaries in the upper Tombigbee.

57 Sites: 93, 101, 103, 106, 108, 110, 122, 135, 140, 151, 154, 156-158, 163, 164, 167, 170, 179, 183, 189, 193, 194, 223, 224, 229-232, 234, 235, 237, 239, 241-244, 250, 254, 267, 270, 272, 276, 284, 287, 288, 304, 306-308, 310, 316, 317, 319, 343, 346, and 347. Map 113.



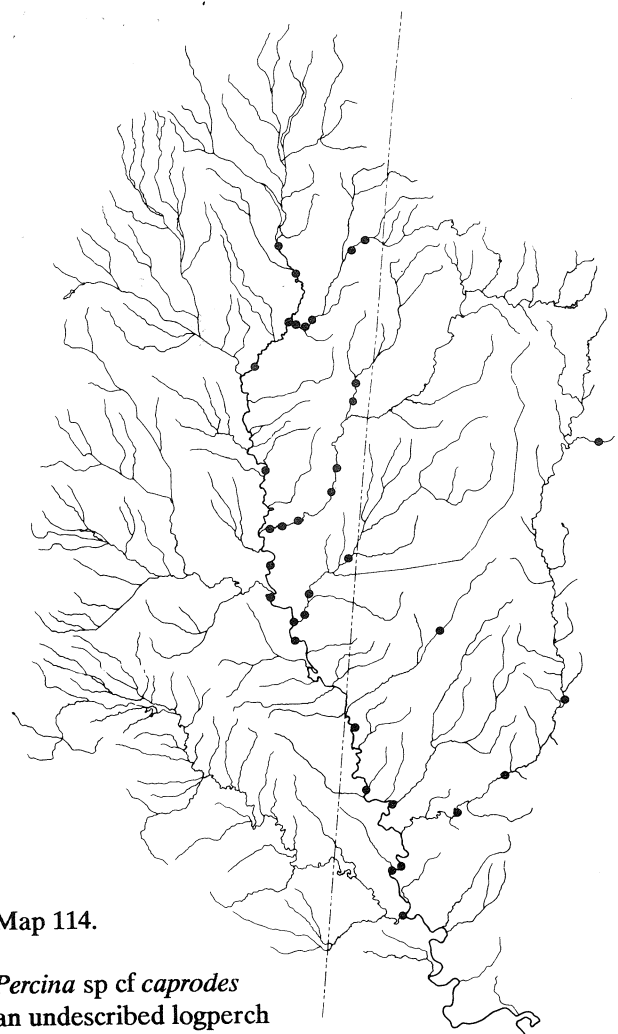
Map 113.

Percina vigil
saddleback darter

***Percina* sp cf *caprodes* (Rafinesque) undescribed logperch**

Steve Ross examined specimens of the *P. caprodes* complex and concluded that both the "Mobile" and "gulf" forms, as defined by Bruce Thompson, occur in the upper Tombigbee. The two forms are not differentiated on the distribution map. The "Mobile" logperch differs from the "gulf" logperch in having wider lateral bars and smaller scales. One or both forms occupy the river proper and the larger tributaries of the Fall Line Hills in the upper Tombigbee. They are syntopic in Bull Mountain Creek and Luxapallila River, and in the Tombigbee proper in Lowndes County, Miss. It is expected that the river populations will be adversely affected by the TTW.

35 Sites: 93, 95, 96, 99, 101, 106, 116, 129, 132, 138, 140, 156-158, 163, 170, 194, 223, 230-232, 237, 239, 243, 244, 270, 303, 306-308, 310, 316, 317, 322, and 325. Map 114.



Map 114.

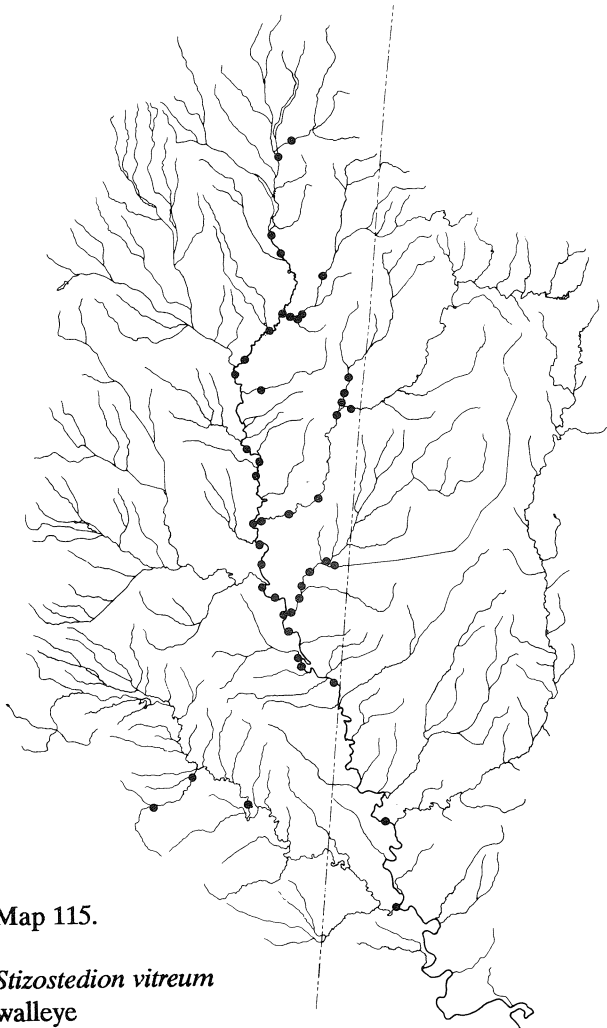
Percina sp cf *caprodes*
an undescribed logperch

Stizostedion vitreum (Mitchell)

walleye

Although widely distributed in the upper Tombigbee, especially the river proper and the larger tributaries, the walleye is not abundant anywhere in the system and the numbers have declined over the past 40 years (Schultz, 1969). The data for the distribution map came primarily from Schultz's study. Stocked walleyes often do well in reservoirs; however, the limiting factor for this possibility in the TTW may be suitable tributary streams for spawning.

45 Sites: 39, 56, 58, 93, 122, 145, 151, 152, 156-158, 161, 163, 164, 167, 179, 193, 194, 223, 224, 229, 230, 232, 235, 241-244, 250, 268, 270, 276, 285, 287, 303, 304, 306-308, 310, 312, 324, 325, 335, and 342. Map 115.



Map 115.

Stizostedion vitreum
walleye

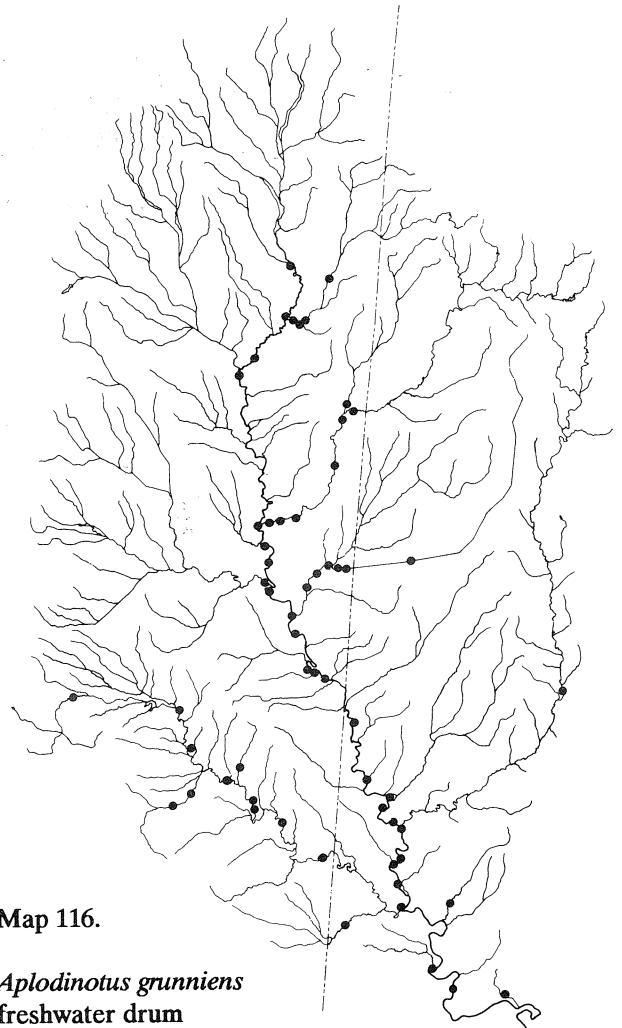
SCIAENIDAE — drums

Aplodinotus grunniens Rafinesque

freshwater drum

The freshwater drum occupies a variety of big river habitats, as well as lakes and reservoirs. It is tolerant of silt and turbidity. Adverse effects of the TTW are not anticipated.

58 Sites: 2, 3, 8, 10, 13, 22, 29, 39, 40, 42, 49, 56, 57, 68, 73, 85, 93-97, 106, 122, 123, 129, 132, 138, 149-151, 156, 157, 163, 164, 167, 179, 180, 188, 194, 195, 223, 224, 229-232, 239, 241, 242, 250, 287, 303, 306-308, 310, 312, and 322. Map 116.



Map 116.

Aplodinotus grunniens
freshwater drum

Species of Questionable or Unusual Occurrence

Atractosteus spatula (Lacepede) alligator gar

Lepisosteus spatula Lacepede.— recent authors

Atractosteus spatula (Lacepede).— Wiley, 1977

I (1973, 1983, 1987) included the alligator gar in the lists of fishes of the upper Tombigbee on the strength of a newspaper account related to me by M. F. Mettee. The specimen was caught above the present site of Demopolis Lock and Dam about 35 years ago. Although the alligator gar ascends the Mississippi River and its tributaries, including the Ohio River, rarely is it found far upstream from the delta area in Mobile basin. It is not considered part of the upper Tombigbee fish fauna.

Carassius auratus (Linnaeus) goldfish

The goldfish is assumed to be ubiquitous and sporadically common (Hensley and Countenay, 1980); however, there are no known established populations in the upper Tombigbee. The only record known to me is one reported by Schultz (1969) from Town Creek, about 1.5 mi W Plantersville, Lee County, Miss. (Site 297). There is no reason to think that the goldfish will become a part of this fauna because it is rather intolerant of silt. Since its introduction in North America in the late 1600s (Courtenay et al., 1986), the goldfish, unlike the introduced common carp, has not become well established in the wild.

Ctenopharyngodon idella (Valenciennes) grass carp

The grass carp sporadically escapes from ponds where it is introduced for weed control (Jim McHugh, pers. comm.). To my knowledge, it is not known to reproduce in the wild in the upper Tombigbee.

Cyprinella lutrensis (Baird and Girard) red shiner

Leuciscus lutrensis Baird and Girard

Notropis lutrensis (Baird and Girard).— recent authors

Cyprinella lutrensis.— Mayden, 1989

Timmons (1982) found a single specimen in Gainesville Pool (Site 93) that he considers a bait-bucket introduction. This hardy and prolific minnow could become established as it has elsewhere (Matthews, 1980).

Pimephales promelas Rafinesque fathead minnow

The fathead minnow is rarely encountered; those present are probably bait-bucket escapees, as reproductive populations are not known in the upper Tombigbee.

Carpiodes carpio (Rafinesque) river carpsucker

Hubbard (1987) identified two river carpsuckers in a hoop net collection at Site 39 in the Noxubee River. The specimens are 310 and 376 mm TL, ample length that size should not be a factor in their identification. The quillback (*Carpiodes cyprinus*), not listed by Hubbard from the Noxubee River, is present elsewhere in the upper Tombigbee.

Moxostoma duquesnei (Lesueur) black redhorse

Specimens catalogued AUM 22096 (Site 230, Buttahatchee River), AUM 22098 (Site 229, Tombigbee at mouth of Buttahatchee), AUM 22099 (Site 316, Bull Mountain

Creek), TU [RDS 5208] (Site 135, Big Creek), and MSU 5034 (Site 306, Tombigbee at mouth of Bull Mountain Creek) are labeled *M. duquesnei*. Schultz (1969) reported the black redhorse in the Tombigbee in the area of Hwy 50 (Site 223) that was collected in 1963. The MSU specimen was collected in 1974; the AUM specimens in 1980 by Pierson and Schultz, but they did not list *M. duquesnei* in their (1984) list of Bull Mountain fishes. Jenkins (1980) regards the Mobile basin population as distinct from all other populations, and according to his map, no form of *M. duquesnei* occurs in the Tombigbee system. Until these specimens can be thoroughly examined, I will regard them as *M. erythrum*.

Mugil cephalus Linnaeus striped mullet

Tom Timmons collected a specimen of the striped mullet (AUM 21122) at Site 3 in May 1980. The fish, in its upstream movement, successfully negotiated Demopolis Lock and Dam, as well as the Jackson Lock and Dam on the lower Tombigbee. Historically, mullets have ascended rivers of Mobile basin, having been observed in the Coosa at the base of Jordan Dam and in the Cahaba at Centreville, Ala. (Boschung, 1961).

Morone mississippiensis Jordan and Eigenmann

yellow bass

The yellow bass has entered the pools and canals between Bay Springs Dam and Aberdeen, Mississippi, presumably from the Tennessee River system (C. A. Schultz, pers. comm.). It was heretofore unknown in the upper Tombigbee.

Morone saxatilis (Walbaum) striped bass

Historically, the striped bass in Alabama was an anadromous stock that made upstream spawning runs; however, stocks declined as a result of overfishing and the limitation of upstream spawning migrations by dams. Striped bass no longer reproduce in the mainstream reservoirs, but the Alabama Game and Fish Division periodically stocks them in public waters (Moss, 1985).

Morone saxatilis x M. chrysops hybrid bass

Hybrid bass [*Morone saxatilis* (Walbaum) and *Morone chrysops* (Rafinesque)] have been stocked by the Alabama Department of Conservation in the TTW impoundments in Alabama, and in the Columbus Pool by the Mississippi Game and Fish Commission.

Micropterus dolomieu Lacepede smallmouth bass

Micropterus dolomieu Lacepede

An unsuccessful attempt by the Mississippi Game and Fish Commission was made in 1982 to stock smallmouth bass in Bull Mountain Creek (C. A. Schultz, pers. comm.).

Stizostedion canadense (Smith) sauger

Sauger have been introduced from time to time, in Weaver Creek for example, but reproductive populations probably have not been established (C. A. Schultz, pers. comm.). It is in Bay Springs Pool and will have an opportunity to enter the upper Tombigbee.

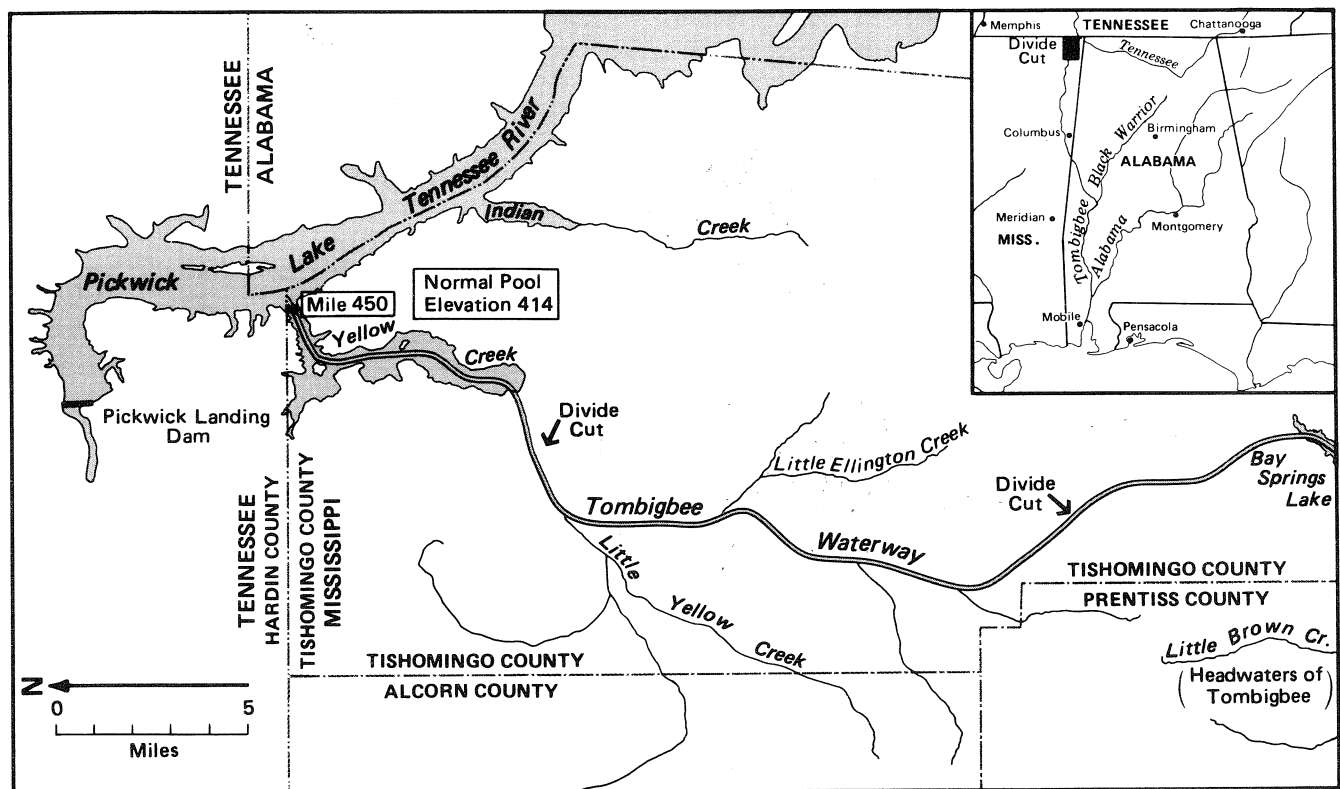


Fig. 3. The divide cut between the upper Tombigbee and Tennessee river systems.

STREAM CAPTURE

The Tennessee-Tombigbee Waterway

The following is a brief description of how one of the few remaining free-flowing major rivers in the Southeastern United States was destroyed. The upper Tombigbee is no longer a river, but a series of pools connected by canals and channels. The chronology of completion of locks and dams and associated channelization and canalization of the Tennessee-Tombigbee Waterway (TTW) is as follows: (1) Demopolis Lock and Dam, just below the confluence of the upper Tombigbee and the Black Warrior rivers, was completed in January 1955. (2) Gainesville Lock and Dam, September 1978. (3) Aliceville Lock and Dam, December 1979. (4) Columbus Lock and Dam, January 1981. (5) Aberdeen Lock and Dam, January 1984. (6) Locks A, B, C, D, and E, December 1984. (7) Bay Springs Lock and Dam, November 1983. (8) Completed waterway; that is, the first opportunity for immigration or emigration of fishes, January 1985.

Three sections of the TTW are identified (Figs. 2 and 3). I. The **River Section** begins at Demopolis Lock and Dam and terminates below Aberdeen Lock and Dam above Site 284. Demopolis Lock and Dam is on the lower Tombigbee River a few miles below its confluence with the Black Warrior River. The River Section consists of a meandering river shortened by numerous cut-offs. A cut-off is defined as a channel that severs a bend in the river (a bendway).

The river and the channels are dredged to a minimum depth of 9 ft and width of 300 ft. II. The **Canal Section** begins at the mouth of Town Creek (rmi 366) and ends at Bay Springs Lock and Dam (rmi 412). This section of the waterway is a canal perched on the east side of the river and contained by a continuous levee. The navigation canal is 12 ft deep and 300 ft wide. Five locks provide a total lift of 140 ft. III. The **Divide Cut** section consists of Bay Springs Pool and approximately 30 miles of navigation canal. The canal is 12 ft deep and 280 ft wide. It cuts through the divide between the upper Tombigbee and Tennessee river systems (Fig. 3). The Bay Springs lift is 84 ft to bring the two bodies of water together at a normal pool level of 414 ft.

With the construction of the Divide Cut, the U.S. Army Corps of Engineers accomplished in an instant on the geological time scales what would have taken eons to accomplish by headwater erosion. A part of Mobile Basin was donated to the Tennessee River system, taking with it a dozen or so species of fishes heretofore unknown in the Tennessee system.

Species Captured

Bay Springs Lock and Dam sits atop Site 347 (Figs. 1 and 2). From this point, Mackeys Creek watershed was inundated by the Bay Springs Pool and actually became a part

of Pickwick Pool on the Tennessee River. The following species, definitely known to occur in the captured part of Mackeys Creek, are documented by specimens in museums (Sites 347-352): *Ichthyomyzon gagei*, *Lampetra aepyptera*, *Campostoma oligolepis*, *Cyprinella vnusta****, *Hybognathus hayi*, *H. nuchalis*, *Hybopsis winchelli***, *H. sp. cf longirostris***, *Luxilus chrysocephalus isolepis***, *Lythrurus bellus**, *Nocomis leptcephalus**, *Notropis baileyi**, *N. stilbius**, *N. texanus***, *Opsopoeodus emiliae*, *Pimephales notatus*, *P. vigilax*, *Semotilus atromaculatus*, *Erimyzon oblongus*, *E. sucetta***, *Hypentelium etowanum***, *Minytrema melanops*, *Ameiurus natalis*, *Ictalurus punctatus*, *Noturus funebris***, *N. gyrinus***, *N. leptacanthus**, *Fundulus olivaceus*, *Gambusia affinis*, *Labidesthes sicculus*, *Ambloplites ariommus***, *Lepomis cyanellus*, *L. macrochirus*, *L. marginatus*, *L. megalotis*, *L. punctatus*, *Micropterus salmoides*, *Ammocrypta beani***, *Etheostoma chlorosomum*, *E. nigrum*, *E. parvipinne*, *E. proeliare*, *E. rupestre***, *E. stigmaeum*, *E. swaini**, *E. whipplei**, *Etheostoma sp***, *Percina nigrofasciata***, and *P. vigil*. Of course, there may be other species that have escaped collectors in the Mackeys Creek area.

Those identified by double asterisk (***) were previously unknown in the Tennessee River system, and those marked by a single asterisk (*) were previously known only in Yellow Creek and/or Bear creeks of the Tennessee River system. The *Notropis stilbius* record in Bear Creek is based on one specimen collected in 1952.

Potential Emmigrants from Tennessee

Thus far, there are no records of Tennessee River system fishes in the upper Tombigbee, with the possible ex-

ception of *Morone mississippiensis*, mentioned above. There is no doubt that, with time, some Tennessee River system fishes will find their way out of Pickwick Pool, through the canals and locks, and into the upper Tombigbee. It is highly unlikely that some of the fishes on the following list could make their way into the Tombigbee, and even if some did, it is unlikely that they would find ecological conditions suitable to their life style. The species most likely to emigrate with success from the Tennessee are the big river forms. Potential immigrants, based on the fishes known to occur in the south bend of the Tennessee system, are: *Ichthyomyzon bdellium*, *I. greeleyi*, *Lampetra appendix*, *Acipenser fulvescens*, *Scaphirhynchus platyrhynchus*, *Lepisosteus platostomus*, *Hiodon alosoides*, *Clinostomus funduloides*, *Hemitremia flammea*, *Hybopsis amblops*, *H. dissimilis*, *H. insignis*, *Nocomis micropogon*, *Notropis ariommus*, *N. blennius*, *N. buchanani*, *N. c. chrysocephalus*, *N. coccogenis*, *N. fumeus*, *N. galacturus*, *N. leuciodus*, *N. lirus*, *N. telescopus*, *N. whipplei*, *Phenacobius mirabilis*, *P. uranops*, *Phoxinus erythrogaster*, *Pimephales promelas*, *Rhinichthys atratulus*, *Carpionodes carpio*, *Catostomus commersoni*, *Hypentelium nigricans*, *Ictiobus cyprinellus*, *Moxostoma anisurum*, *Moxostoma duquesnei*, *M. macrolepidotum breviceps*, *Noturus elegans*, *N. exilis*, *N. flavus*, *N. miurus*, *Fundulus catenatus*, *Morone mississippiensis*, *Ambloplites rupestris*, *Micropterus dolomieu*, *Etheostoma blennioides*, *E. blennius*, *E. caeruleum*, *E. duryi*, *E. flabellare*, *E. jessiae*, *E. kennicotti*, *E. rufilineatum*, *E. simoterum*, *E. spectabile*, *E. sp cf squamiceps*, *E. zonale*, *Perca fulvescens*, *Percina burtoni*, *P. caprodes*, *P. evides*, *P. phoxocephala*, *Stizostedion canadense*, *Cottus bairdi*, and *C. caroliniae*.

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