

FISHES OF THE NATCHEZ TRACE PARKWAY



Etheostoma boschungi

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Summary

The Natchez Trace Parkway crosses through the states of Mississippi, Alabama and Tennessee. The primary river systems contained in its course include the Mississippi and Tennessee, but the Parkway also crosses through smaller portions of the Tombigbee and Cumberland river drainages. Aquatic habitats include streams of all sizes, swamps, seepage areas, reservoirs and a portion of the Tennessee River mainstem. As expected, the fish biodiversity in aquatic habitats along the Parkway is high: this study documents 101 species as present in the park and an additional 71 that are probably present within the Park boundaries. Two federally listed fish species are present in the Park; one from Mississippi (bayou darter, federally threatened) and one from Alabama and Tennessee (slackwater darter, federally threatened).

Introduction

Spanning numerous physiographic regions and distinct river drainages, the Natchez Trace Parkway contains tremendous fish diversity within its boundaries. This high diversity is related, in part, to the large number of Tennessee River streams in the area. The Tennessee River drainage has the highest fish diversity in North America, and harbors numerous rare and endemic fishes. Although data for many streams exists from previous samples of fishes in museum databases, this information has not been brought together to assess monitoring and inventory needs for the Natchez Trace Parkway. In addition, targeted sampling of the entire Trace has not been conducted for fishes, so

current distributional and status information is lacking for many species. This information is critical for current and future management of fishes along the Parkway.

The objectives of this proposed project were to: 1) compile data for existing fish records from aquatic habitats within the boundaries of the Natchez Trace Parkway from national and regional museum databases; 2) compile data for existing fish records from aquatic habitats relevant to (could be predicted to occur in the Park based on drainage location) the Natchez Trace Parkway from national and regional museum databases; 3) gather literature on previous work with fishes relevant to fishes within park boundaries; 4) sample fishes from aquatic habitats within the boundaries of the Natchez Trace Parkway; 5) enter all data gathered on historic (from museum databases) and current (from field work) fish distribution and abundance and associated metadata into the NPS database.

Methods

Museum data collection: Fish records from streams crossing the Natchez Trace Parkway were gathered and entered into a database (excel). Museums queried included Tulane Museum of Natural History, University of Alabama Natural History Museum, Auburn University Museum, Illinois Natural History Survey, University of Georgia, University of Tennessee, Cornell University, Smithsonian Institution, University of Michigan, and the Mississippi Museum of Natural History. Fish records were also obtained from the Tennessee Valley Authority for the Tennessee River as it crosses the Parkway and from the Mississippi Department of Wildlife, Fisheries and Parks for Ross

Barnett Reservoir. Records were divided into ones within park boundaries and ones in the next stream drainage down (probably present within park boundaries), where appropriate. An electronic literature survey for prior work within the park was also conducted.

Fishes were collected from representative water bodies crossing the Parkway except Bayou Pierre (see publications by Ross and Ross et al. for this area, which has been thoroughly sampled). Sites were sampled using a backpack electrofisher and seine (10' - 30') from 30 mins. to 1.5 hours depending on habitat size and complexity (larger streams were sampled longer). Three to five sampling efforts were made after no more unique species were collected to insure adequate biodiversity sampling. Where rare fishes were known to occur (e.g., slackwater darter, *Etheostoma boschungi*), only seines and dipnets were used for sampling to prevent potential stress to these species. Seepage areas were sampled using dip nets. All non -imperiled fishes were collected and preserved (euthanized using 30 mg/l MS222, preserved in 10% formalin) for later identification. Imperiled species were photographed and released. Unless otherwise discussed, specimens are housed in the Auburn University Museum where they will be permanently curated and available for loan to all researchers and park personnel. All sites were georeferenced using a Magellan GPS unit (WGS84). Habitat notes included water clarity, stream size, substrate characterization and riparian condition.

Data for current and historical fish collections were entered into NPS species database. Nomenclature follows Nelson, et al. 2004. Information on species abundance, habitat and distribution was obtained from Etnier and Starnes (1993), Ross (2001) and Boschung and Mayden (2004).

Results and Discussion

A total of 101 fish species occur in aquatic habitats along the Natchez Trace Parkway in Mississippi, Alabama and Tennessee (Tables 1-66). An additional 71 species are probably present in the Park based on distributional records and habitat, but have not been collected within the Park boundaries (Table 66). In a previous report, Ross (1994) documented 122 fish species known to occur within park boundaries or within 10 km of where the Parkway crossed the water body in Mississippi. Sixty-eight species have been documented by the Mississippi Department of Wildlife, Fisheries and Parks. Although no comprehensive fish survey of the Parkway was previously conducted in Alabama, Wall (1968) documented 63 species from the Bear Creek watershed and Phillips and Johnston documented 62 species from the same watershed. The Tennessee Valley Authority has documented 114 species from the Tennessee River system in the vicinity of the Parkway in Alabama (see appendices for records). Paxton et al. (2000) documented 58 species from the Parkway in Tennessee.

Fifty-nine sites were sampled along the Parkway in all three states during this study (Figure 2) and yielded 92 species of freshwater fishes (Tables 1-59). Without historical data at each site for comparison, it is not possible to directly assess whether the samples represent pristine or degraded stream conditions. However, some general conclusions regarding these samples can be made. The composition of fish assemblages is influenced by stream size and physiography. The sandy, warm, low gradient streams found in the coastal plain physiographic region (e.g., most of Mississippi) harbor fishes adapted to these conditions, and endemism is low (Sites 1-6). Total species richness for

these sites was 22, and ranged from 5-11 (Table 60). Species richness increases with stream size, and explains much of the variation in species richness among sites.

Samples from the Big Black River drainage (Sites 6-8, 17-19) showed no faunal distinction from streams directly draining into the Mississippi River and had similar species richness, 23, range 4-15 (Table 61). Species richness for the Pearl River drainage was slightly higher than for the Mississippi or Big Black rivers, but the diversity and number of sites sampled was higher, 26, range 3-10 (Table 62, Sites 9-16).

The Tombigbee River is part of the Mobile Basin, and has 10 species not found in other Mississippi river systems (Ross, 2001). Seventeen sites were sampled during this survey, and four species indicative of the Mobile Basin were collected (*Lythrurus bellus*, *Notropis ammophilus*, *Notropis stilbius*, *Etheostoma lachneri*) (Table 63, Sites 20-37). Total species richness was 31, range 2-11.

The Tennessee River is the most diverse river drainage in North America (Etnier and Starnes, 1993). For this survey, moving into this drainage also coincides with a shift from coastal plain to upland physiography, and differences in the fish fauna are due to both factors. Species richness from surveys was 46, range 1-16 for 14 sample sites (Sites 40-54, Table 64). For the Cumberland drainage, species richness was 19, range 5-10 (Table 65). These samples included a much higher number of darter species than found in other drainages on the coastal plain, and included species adapted to coldwater conditions (i.e., *Hemitrema flamea*, *Phoxinus erythrogaster*, *Cottus carolinae*).

Although it is difficult to compare samples across sites along the Natchez Trace Parkway due to different numbers of samples, stream sizes, physiography and drainage differences, in general, the coastal plain sites were more homogenous than upland sites.

Homogenization often suggests habitat degradation, and many of the streams throughout Mississippi seemed degraded (shallow water, no riparian zone, channel incision). But without historical data from each site it is not possible to assess changes in fish assemblages. Many sites in the Tennessee and Cumberland drainages seemed relatively pristine (forested, clear, cool water, high habitat heterogeneity, good riparian zone) and yielded many species indicative of both the drainage and physiographic region.

Two federally threatened species occur along the Parkway: slackwater darter (*Etheostoma boschungi*) and the bayou darter (*Etheostoma rubrum*). The slackwater darter has been found along the Parkway in the Cypress Creek as adjacent streams in North Alabama and Southern Tennessee (Boschung, 1976a,b, 1979; McGregor and Shepard, 1995). In this survey one specimen of slackwater darter was found at a historical breeding site along the Parkway (Figure 3).

Much of the literature published on fishes found in the Park deal with the two federally listed species, bayou and slackwater darters (references). Previous fish surveys were conducted by Ross (Mississippi) and Paxton et al. (Tennessee). Literature relevant to fishes along the Parkway is summarized in Cooper et al. (2004).

The Natchez Trace Parkway harbors a diverse fish fauna indicative of its four primary river drainages. The fishes found along the Parkway are also influenced by physiography, including Highland Rim, Nashville Basin and Coastal Plain. Management of these areas should include maintenance of riparian zones and forested watersheds where ever possible.

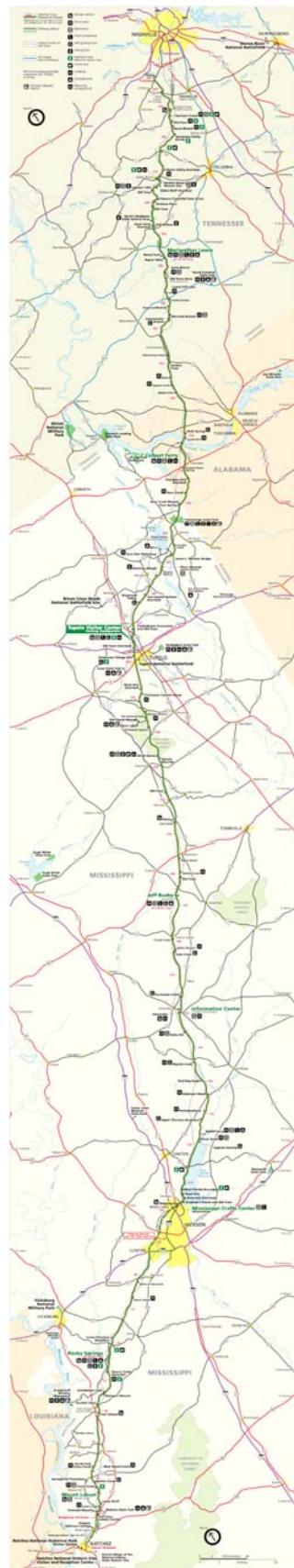


Figure 1 - Map of the Natchez Trace Parkway

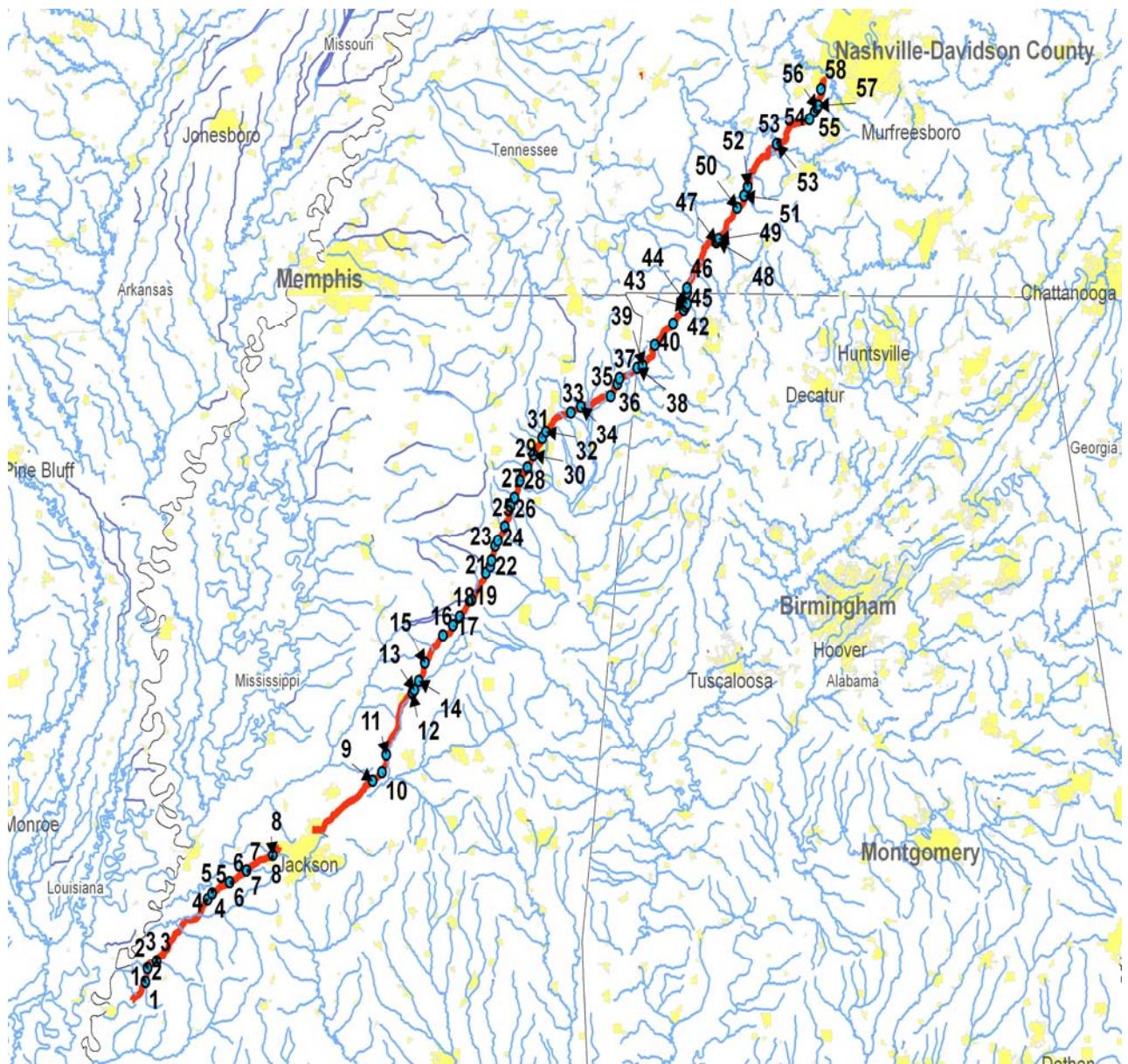


Figure 2 - Fish sampling sites along the Natchez Trace Parkway



Figure 3 - Female *Etheostoma boschungi* collected along the Natchez Trace Parkway in Wayne Co., TN (Cooper Branch, site 45).

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Tables 1 - 59 - Fishes collected during current survey.

Site 1

South Fork Coles Creek
(Mississippi River Drainage)

3.5 mi SE of Church Hill

Jefferson Co., MS

Natchez Trace Parkway

21-Jun-05

31.691020 N, -91.18233 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Cyprinella camura</i>	3
<i>Cyprinella lutrensis</i>	13
<i>Notropis atherinoides</i>	1
<i>Notropis longirostris</i>	1
<i>Pimephales notatus</i>	1
<i>Pimephales vigilax</i>	4
<i>Gambusia affinis</i>	1
<i>Lepomis macrochirus</i>	1
<i>Micropterus punctulatus</i>	1
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TOTAL species	9



Site 2

Mud Island Creek
(Mississippi River Drainage)

3.5 mi N of Mt. Locust

Jefferson Co., MS

Natchez Trace Parkway

21-Jun-05

31.76025 N -91.16832 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Cyprinella camura</i>	1
<i>Cyprinella lutrensis</i>	4
<i>Notropis longirostris</i>	3
<i>Micropterus punctulatus</i>	3
<i>Percina sciera</i>	2
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TOTAL species	5



Site 3

N. Fork Coles Creek
(Mississippi River Drainage)

4 mi SW of Lorman
Jefferson Co., MS
Natchez Trace Parkway
21-Jun-05
31.79358 N, -91.10748 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Cyprinella lutrensis</i>	26
<i>Cyprinella venusta</i>	1
<i>Luxilus chrysocephalus</i>	5
<i>Carpoides cyprinus</i>	3
<i>Micropterus punctulatus</i>	3
<i>Percina vigil</i>	1

TOTAL species	6



Site 4

Little Sand Creek
(Mississippi River Drainage)

5 mi SW of Reganton
Claiborne Co., MS

Natchez Trace Parkway

21-Jun-05

31.79358 N, -91.10748 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Luxilus chrysocephalus</i>	3
<i>Notropis longirostris</i>	4
<i>Semotilus atromaculatus</i>	11
<i>Lepomis megalotis</i>	1
<i>Etheostoma whipplei</i>	1

TOTAL species	5



Site 5
Big Sand Creek
(Mississippi River Drainage)
2 mi SW of Reganton
Claiborne Co., MS
Natchez Trace Parkway
21-Jun-05
32.11702N, -90.76648 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Campostoma anomalum</i>	15
<i>Cyprinella venusta</i>	8
<i>Luxilus chrysocephalus</i>	7
<i>Lythurus umbratilis</i>	20
<i>Notropis longirostris</i>	7
<i>Ictalurus furcatus</i>	1
<i>Fundulus olivaceus</i>	3
<i>Lepomis megalotis</i>	6
<i>Micropterus punctulatus</i>	2
<i>Etheostoma caeruleum</i>	8
<i>Etheostoma whipplei</i>	3

TOTAL species	11



Site 6

Fivemile Creek
(Big Black River Drainage)

3 mi NW of Caynga
Hinds Co., MS
Natchez Trace Parkway

22-Jun-05

32.11702 N, -90.76648 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Campostoma anomalum</i>	32
<i>Cyprinella venusta</i>	4
<i>Hybognathus nuchalis</i>	4
<i>Luxilus chrysocephalus</i>	26
<i>Lythurus roseipinnis</i>	4
<i>Pimephales notatus</i>	25
<i>Semotilus atromaculatus</i>	2
<i>Erimyzon oblongus</i>	1
<i>Ameiurus natalis</i>	2
<i>Fundulus olivaceus</i>	2
<i>Gambusia affinis</i>	3
<i>Lepomis cyanellus</i>	1
<i>Lepomis megalotis</i>	1
<i>Micropterus salmoides</i>	1
<i>Etheostoma swaini</i>	3
TOTAL Species	15



Site 7

Fourteen Mile Creek
(Big Black River Drainage)

3 mi W of Oakley

Hinds Co., MS

Natchez Trace Parkway

22-Jun-05

32.2270982478 N, -90.5539103118 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

Cyprinella venusta 27

Pimephales notatus 12

Gambusia affinis 5

Lepomis cyanellus 4

Lepomis macrochirus 4

Lepomis megalotis 7

Etheostoma whipplei 1

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TOTAL species 7



Site 8
Bakers Creek
(Big Black River Drainage)
15 mi W of Jackson
Hinds Co., MS
Natchez Trace Parkway
22-Jun-05
32.30342 N, -90.39188 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Cyprinella venusta</i>	4
<i>Lythurus umbratilis</i>	2
<i>Noturus gyrinus</i>	1
<i>Gambusia affinis</i>	2
<i>Lepomis macrochirus</i>	1
<i>Lepomis megalotis</i>	2
<i>Micropterus salmoides</i>	2
<i>Etheostoma proeliare</i>	1

TOTAL species	8



Site 9

Dancing Rabbit Creek

(Pearl River Drainage)

2 mi NE of Farmhaven

Madison Co., MS

Natchez Trace Parkway

23-Jun-05

32.658319 N, -89.751298 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Cyprinella camura</i>	9
<i>Cyprinella venusta</i>	14
<i>Lythurus bellus</i>	19
<i>Pimephales notatus</i>	1
<i>Fundulus olivaceus</i>	3
<i>Micropterus salmoides</i>	1
<i>Percina maculata</i>	1
<i>Percina sciera</i>	1

TOTAL species	8



Site 10

Pellaphalia Creek
(Pearl River Drainage)

1 mi SW of Ofahoma

Leake Co., MS

Natchez Trace Parkway

23-Jun-05

32.69967 N, -89.71385 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Lepisosteus osseus</i>	1
<i>Erimyzon oblongus</i>	14
<i>Esox americanus</i>	5
<i>Gambusia affinis</i>	1
<i>Labidesthes sicculus</i>	1
<i>Lepomis gulosus</i>	1
<i>Micropterus salmoides</i>	1

TOTAL species	7



Site 11

Ninemile Creek
(Pearl River Drainage)
5.5 mi SW of Thomastown
Leake Co., MS
Natchez Trace Parkway
23-Jun-05
32.78383 N, -89.689280 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Hybopsis winchelli</i>	2
<i>Lythrurus roseipinnis</i>	6
<i>Notemigonus crysoleucus</i>	1
<i>Notropis texanus</i>	7
<i>Fundulus olivaceus</i>	3
<i>Gambusia affinis</i>	1
<i>Lepomis gulosus</i>	4
<i>Lepomis megalotis</i>	4
<i>Lepomis miniatus</i>	2
<i>Micropterus salmoides</i>	1
TOTAL species	10



Site 12
Hurricane Creek
(Pearl River Drainage)
3 mi NE of Kosciusko
Attala Co., MS
Natchez Trace Parkway
33.08267 N, -89.52575 W
24-Jun-05
R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Fundulus olivaceus</i>	8
<i>Micropterus salmoides</i>	4
<i>Pomoxis annularis</i>	2

TOTAL species	3



Site 13

Jaybird Creek
(Pearl River Drainage)

4 mi NE of Kosciusko

Attala Co., MS

Natchez Trace Parkway

24-Jun-05

33.09483 N, -89.5148 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Cyprinella venusta</i>	3
<i>Lythurus roseipinnis</i>	10
<i>Aphredoderus sayanus</i>	1
<i>Fundulus olivaceus</i>	1
<i>Gambusia affinis</i>	1
<i>Centrarchus macropterus</i>	1
<i>Lepomis macrochirus</i>	2
<i>Lepomis megalotis</i>	3
TOTAL species	8



Site 14
 Leflore Creek
 (Pearl River Drainage)
 1 mi NW of Ethel
 Attala Co., MS
 Natchez Trace Parkway
 24-Jun-05
 33.1616N, -89.4675W
 R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Lythurus roseipinnis</i>	36
<i>Notemigonus leptocephalus</i>	5
<i>Opsopoeodus emiliae</i>	10
<i>Fundulus olivaceus</i>	1
<i>Gambusia affinis</i>	4
<i>Lepomis macrochirus</i>	4
<i>Lepomis megalotis</i>	2
<i>Micropterus salmoides</i>	3
<i>Etheostoma chlorosomum</i>	1
<i>Etheostoma swaini</i>	2

TOTAL species	10



Site 15
Cole Creek
(Pearl River Drainage)
1 mi S of Frenchcamp
Attala Co., MS
Natchez Trace Parkway
24-Jun-05
33.22893 N, -89.44603 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Lythurus roseipinnis</i>	16
<i>Fundulus olivaceus</i>	3
<i>Etheostoma chlorosomum</i>	1

TOTAL species	3



Site 16
McCurtain Creek
(Pearl River Drainage)
9 mi NE of Frenchcamp
Choctaw Co., MS
Natchez Trace Parkway
24-Jun-05
33.35778 N, -89.33563 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Notemigonus crysoleucus</i>	12
<i>Esox americanus</i>	1
<i>Centrarchus macropterus</i>	2

TOTAL species	3



Site 17
Little Byway Creek
(Big Black River Drainage)
3.0 mi SW of Byway 9 Rd.
Choctaw Co., MS
Natchez Trace Parkway
33.4068 N, -89.27390 W
24-Jun-05
R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

<i>Luxilus chrysocephalus</i>	17
<i>Lythurus roseipinnis</i>	44
<i>Noturus miurus</i>	1
<i>Fundulus olivaceus</i>	2
<i>Lepomis cyanellus</i>	1
<i>Lepomis megalotis</i>	1
<i>Etheostoma histrio</i>	2

TOTAL species	7



Site 18

Big Byway Ditch
(Big Black River Drainage)

1 mi N of Byway

Choctaw Co., MS

Natchez Trace Parkway

33.451291 N, -89.238464 W

24-Jun-05

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

Cyprinella venusta 1

Esox americanus 2

Gambusia affinis 5

Lepomis megalotis 2

TOTAL species 4



Site 19

Pigeon Roost Creek
(Big Black River Drainage)

1 mi S of Hwy 82

Choctaw Co., MS

Natchez Trace Parkway

33.5322N, -89.15360 W

24-Jun-05

R.A. Kennon, C.P. Cleveland, A.R. Henderson, N.R. Ozburn

Lythurus roseipinnis 9

Semotilus atromaculatus 1

Micropterus punctulatus 1

TOTAL species 3



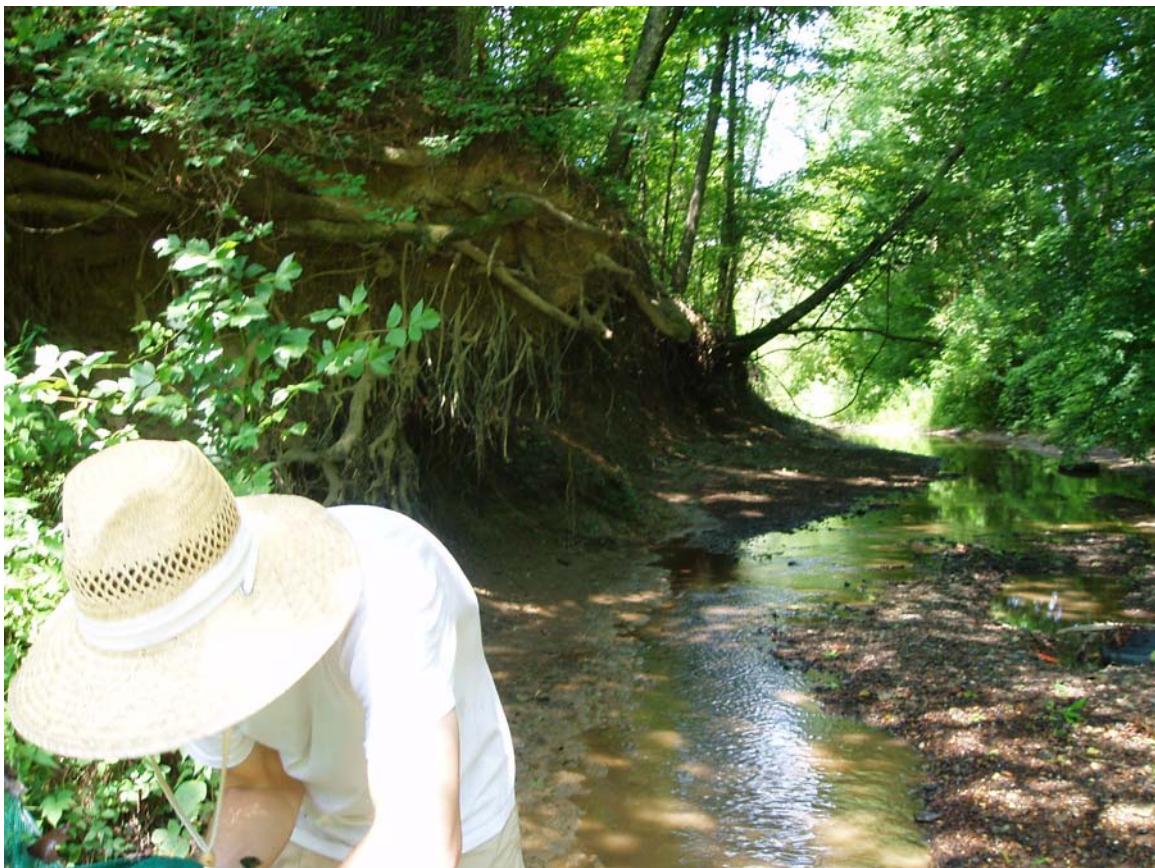
Site 20
Line Creek
(Tombigbee River Drainage)
5 mi S of Mantee
Webster Co., MS
Natchez Trace Parkway
33.666649 N, -88.934206 W
19-Jul-05
R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Notemigonus crysoleucus</i>	68
<i>Lepomis cyanellus</i>	6
TOTAL species	2



Site 21
Oil Field Creek
(Tombigbee River Drainage)
3 mi S of Mantee
Webster Co., MS
Natchez Trace Parkway
19-Jul-05
33.670024 N, -89.046074 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	5
<i>Lythurus bellus</i>	1
<i>Notropis ammophilus</i>	4
<i>Pimephales notatus</i>	7
<i>Semotilus atromaculatus</i>	6
<i>Ameiurus natalis</i>	1
<i>Fundulus olivaceus</i>	10
<i>Gambusia affinis</i>	15
<i>Lepomis macrochirus</i>	1
<i>Lepomis megalotis</i>	1
<i>Micropterus punctulatus</i>	11
TOTAL species	11



Site 22
Sewayah Creek
(Tombigbee River Drainage)
1.5 mi SE of Mantee
Webster Co., MS
Natchez Trace Parkway
19-Jul-05
33.71587 N, -89.0349 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Notropis ammophilus</i>	2
<i>Semotilus atromaculatus</i>	12
<i>Fundulus olivaceus</i>	1
<i>Gambusia affinis</i>	6
<i>Etheostoma nigrum</i>	1
<i>Etheostoma swaini</i>	1
<i>Etheostoma whipplei</i>	2

TOTAL species	7



Site 23
Cane Creek
(Tombigbee River Drainage)
3 mi E of Woodland
Chickasaw Co., MS
Natchez Trace Parkway
19-Jul-05
33.78757 N, -89.012320W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Lythurus bellus</i>	5
<i>Notemigonus crysoleucus</i>	1
<i>Notropis ammophilus</i>	1
<i>Pimephales notatus</i>	6
<i>Semotilus atromaculatus</i>	16
<i>Erimyzon oblongus</i>	1
<i>Noturus funebris</i>	5
<i>Fundulus olivaceus</i>	1
<i>Gambusia affinis</i>	12
<i>Etheostoma whipplei</i>	2

TOTAL species	10



Site 24

Chewawah Creek
(Tombigbee River Drainage)

8 mi S of Houston
Chickasaw Co., MS
Natchez Trace Parkway
19-Jul-05
33.81128 N, -88.99442 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	5
<i>Lythurus bellus</i>	25
<i>Semotilus atromaculatus</i>	1
<i>Fundulus olivaceus</i>	1
<i>Gambusia affinis</i>	5
<i>Lepomis gulosus</i>	1
<i>Lepomis macrochirus</i>	5
<i>Micropterus salmoides</i>	2
<i>Etheostoma whipplei</i>	1

TOTAL species	9



Site 25

Houlka Creek
(Tombigbee River Drainage)

2.5 mi SE of Houston
Chickasaw Co., MS
Natchez Trace Parkway
19-Jul-05
33.88157 N, -88.95308 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	25
<i>Lythurus bellus</i>	16
<i>Notropis ammophilus</i>	2
<i>Lepomis macrochirus</i>	5
<i>Lepomis megalotis</i>	2

TOTAL species	5



Site 26

Dicks Creek

(Tombigbee River Drainage)

0.5 mi W of Van Vleet

Chickasaw Co., MS

Natchez Trace Parkway

19-Jul-05

33.97988 N, -88.91785 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

Notropis ammophilus 34

Pimephales notatus 4

Semotilus atromaculatus 13

Lepomis macrochirus 1

Etheostoma whipplei 1

Percina sciera 4

TOTAL species 6



Site 27

Chuquatonchee Creek
(Tombigbee River Drainage)

2.5 mi N of Van Vleet
Chickasaw Co., MS
Natchez Trace Parkway
20-Jul-05
34.02038 N, -88.89383 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	8
<i>Lythurus bellus</i>	3
<i>Notemigonus crysoleucus</i>	2
<i>Fundulus olivaceus</i>	1
<i>Gambusia affinis</i>	1
<i>Lepomis macrochirus</i>	1
<i>Lepomis megalotis</i>	1

TOTAL species	7



Site 28

Tallabinnela Creek
(Tombigbee River Drainage)

2 mi SE of Troy
Pontotoc Co., MS
Natchez Trace Parkway
20-Jul-05
34.1014 N, -88.85932 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	3
<i>Notropis ammophilus</i>	30
<i>Pimephales notatus</i>	4
<i>Semotilus atromaculatus</i>	5
<i>Etheostoma whipplei</i>	2

TOTAL species	5



Site 29

Chiwapa Creek
(Tombigbee River Drainage)

8 mi SW of Tupelo

Lee Co., MS

Natchez Trace Parkway

20-Jul-05

34.16525 N, -88.811870W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	65
<i>Notropis stilbius</i>	1
<i>Carpoides velifer</i>	2
<i>Micropterus salmoides</i>	2

TOTAL species	4



Site 30

Coonewah Creek
(Tombigbee River Drainage)

3.5 mi SW of Tupelo

Lee Co., MS

Natchez Trace Parkway

20-Jul-05

34.22607 N, -88.77472 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	65
<i>Lythurus bellus</i>	41
<i>Notropis ammophilus</i>	2
<i>Notropis atherinoides</i>	18
<i>Pimephales notatus</i>	5
<i>Ameiurus natalis</i>	1
<i>Lepomis megalotis</i>	10
<i>Micropterus salmoides</i>	1

TOTAL species	8



Town Creek
(Tombigbee River Drainage)

3 mi N of Tupelo

Lee Co., MS

Natchez Trace Parkway

20-Jul-05

34.30772 N, -88.721030 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Dorosoma cepedianum</i>	2
<i>Cyprinella venusta</i>	46
<i>Lythurus bellus</i>	2
<i>Notropis atherinoides</i>	6
<i>Pimephales notatus</i>	1
<i>Ictalurus punctatus</i>	1
<i>Gambusia affinis</i>	2
<i>Lepomis macrochirus</i>	2
<i>Lepomis megalotis</i>	1
<i>Micropterus punctulatus</i>	2
<hr/>	
TOTAL species	10



Mud Creek
(Tombigbee River Drainage)

5.5 mi N of Tupelo
Lee Co., MS
Natchez Trace Parkway
20-Jul-05
34.34025 N, -88.69910 W
R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	51
<i>Lythurus bellus</i>	3
<i>Notropis stilbius</i>	1
<i>Pimephales notatus</i>	3
<i>Gambusia affinis</i>	2
<i>Lepomis cyanellus</i>	2
<i>Lepomis macrochirus</i>	7
<i>Lepomis megalotis</i>	1
<i>Micropterus punctulatus</i>	3

TOTAL species	9



Twentymile Creek
(Tombigbee River Drainage)

5 mi SW of Kirkville

Itawamba Co., MS

Natchez Trace Parkway

21-Jul-05

34.43240498930 N, -88.5420036672 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Dorosoma cepedianum</i>	2
<i>Cyprinella venusta</i>	80
<i>Notropis atherinoides</i>	2
<i>Labidesthes sicculus</i>	1
<i>Pomoxis annularis</i>	3
<hr/>	
TOTAL species	5



Donivan Creek
(Tombigbee River Drainage)

0.5 mi NE of Kirkville
Itwamba Co., MS
Natchez Trace Parkway
21-Jul-05
34.46192 N, -88.476930 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	6
<i>Lythurus bellus</i>	1
<i>Pimephales notatus</i>	6
<i>Semotilus atromaculatus</i>	4
<i>Lepomis macrochirus</i>	3
<i>Lepomis megalotis</i>	1
<i>Micropterus punctulatus</i>	1
<hr/>	
TOTAL species	7



Rock Creek
(Tombigbee River Drainage)

4 mi W of Belmont
Tishomingo Co., MS
Natchez Trace Parkway
20-Jul-05
34.51931 N, -88.290004 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Cyprinella venusta</i>	5
<i>Luxilus chrysocephalus</i>	2
<i>Lythurus bellus</i>	41
<i>Notemigonus leptocephalus</i>	1
<i>Notropis ammophilus</i>	1
<i>Notropis texanus</i>	1
<i>Micropterus punctulatus</i>	1
<i>Etheostoma proeliare</i>	2

TOTAL species	8



Jordan Creek
(Tombigbee River Drainage)

4 mi NW of Belmont
Tishomingo Co., MS
Natchez Trace Parkway
20-Jul-05
34.56827 N, -88.256870 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Luxilus chrysocephalus</i>	1
<i>Notropis baileyi</i>	6
<i>Semotilus atromaculatus</i>	7
<i>Fundulus olivaceus</i>	4
<i>Lepomis macrochirus</i>	3

TOTAL species	5



McDougal Branch
(Tombigbee River Drainage)

2.5 mi S of Tishamingo

Tishomingo Co., MS

Natchez Trace Parkway

21-Jul-05

34.59552 N, -88.241520 W

R.A. Kennon, C.P. Cleveland, A.R. Henderson, D.E. Holt

<i>Luxilus chrysocephalus</i>	5
<i>Lythurus bellus</i>	2
<i>Notropis baileyi</i>	10
<i>Semotilus atromaculatus</i>	2
<i>Micropterus punctulatus</i>	3
<i>Etheostoma lachneri</i>	1
<hr/>	
TOTAL species	6



Cedar Creek
(Tennessee River Drainage)

10.0 mi. SW Cherokee

Colbert Co., AL

6-June-06

34.6451111 N -88.1303361 W

R.A. Kennon, A.R. Henderson, L.R. Casten, N.R. Ozburn

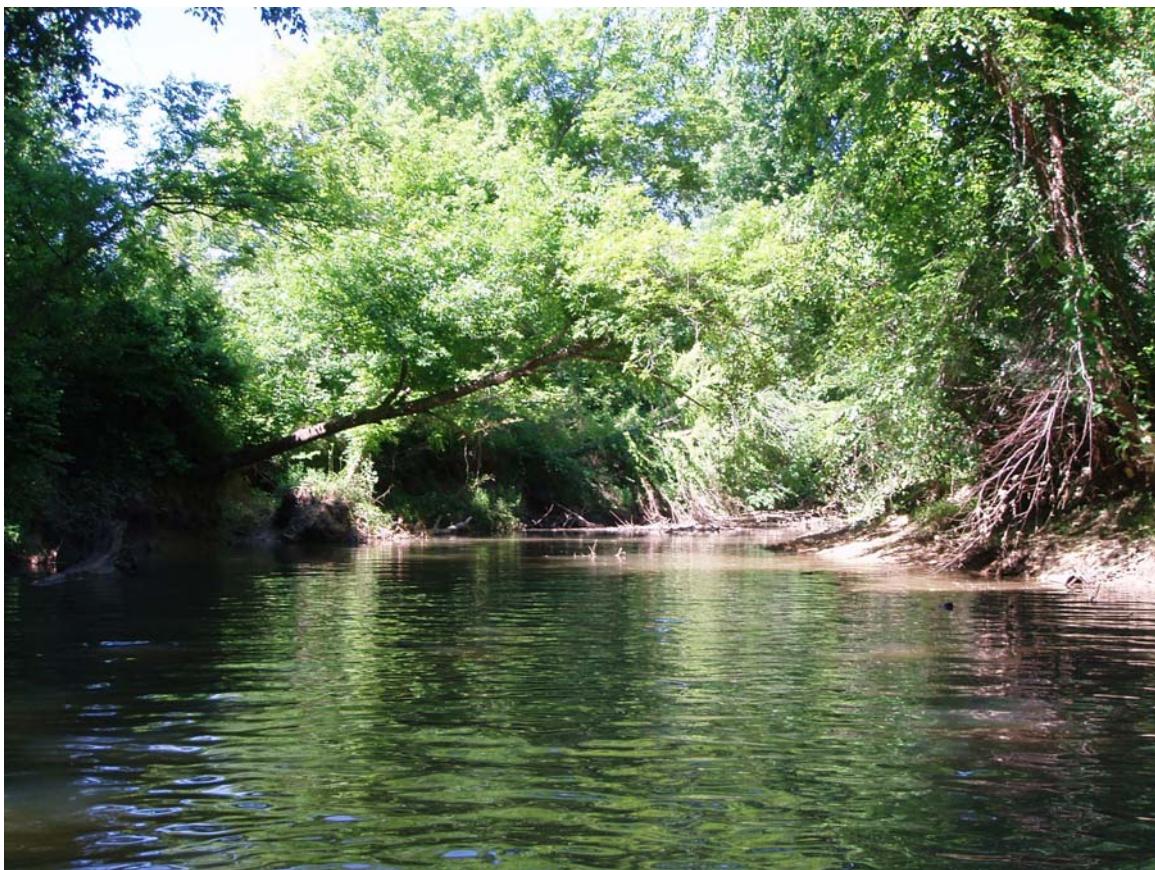
<i>Campostoma oligolepis</i>	7
<i>Cyprinella spiloptera</i>	4
<i>Luxilus chrysocephalus</i>	1
<i>Semotilus atromaculatus</i>	4
<i>Moxostoma erythrum</i>	1
<i>Esox americanus</i>	1
<i>Fundulus catenatus</i>	1
<i>Fundulus olivaceus</i>	3
<i>Lepomis macrochirus</i>	7
<i>Lepomis megalotis</i>	2
<i>Micropterus punctulatus</i>	2
<hr/>	
TOTAL species	11



Rock Creek
(Bear Creek/Tennessee River Drainage)
9 mi SW of Cherokee
Natchez Trace Parkway
Colbert Co., AL
6-Jun-06
34.655992 N, -88.096776 W
R.A. Kennon, A.R. Henderson, L.R. Casten, N.R. Ozburn

<i>Fundulus olivaceus</i>	1
<i>Lepomis macrochirus</i>	1
<i>Lepomis megalotis</i>	3
<i>Lepomis microlophus</i>	2
<i>Percina caprodes</i>	3

TOTAL species	5



Buzzard Roost Creek
(Tennessee River drainage)

3.0 mi. W Cherokee
Natchez Trace Parkway
Colbert Co., AL

6-June-06

34.7556027 N -88.0228944 W

R.A. Kennon, A.R. Henderson, L.R. Casten, N.R. Ozburn

<i>Campostoma oligolepis</i>	4
<i>Luxilus chrysocephalus</i>	12
<i>Lythrurus ardens</i>	31
<i>Notropis texanus</i>	4
<i>Notropis wickliffi</i>	1
<i>Semotilus atromaculatus</i>	27
<i>Gambusia affinis</i>	3
<i>Lepomis cyanellus</i>	4
<i>Lepomis macrochirus</i>	2
<i>Lepomis megalotis</i>	3
<i>Micropterus punctulatus</i>	5
<i>Etheostoma crossopterum</i>	2
<i>Etheostoma rufilineatum</i>	4
<i>Etheostoma simoterum</i>	1
TOTAL species	14



41

Colbert Creek
(Tennessee River Drainage)

9 mi NE of Cherokee
Natchez Trace Parkway
Lauderdale Co., AL

7-Jun-06

34.884696 N, -87.911578 W

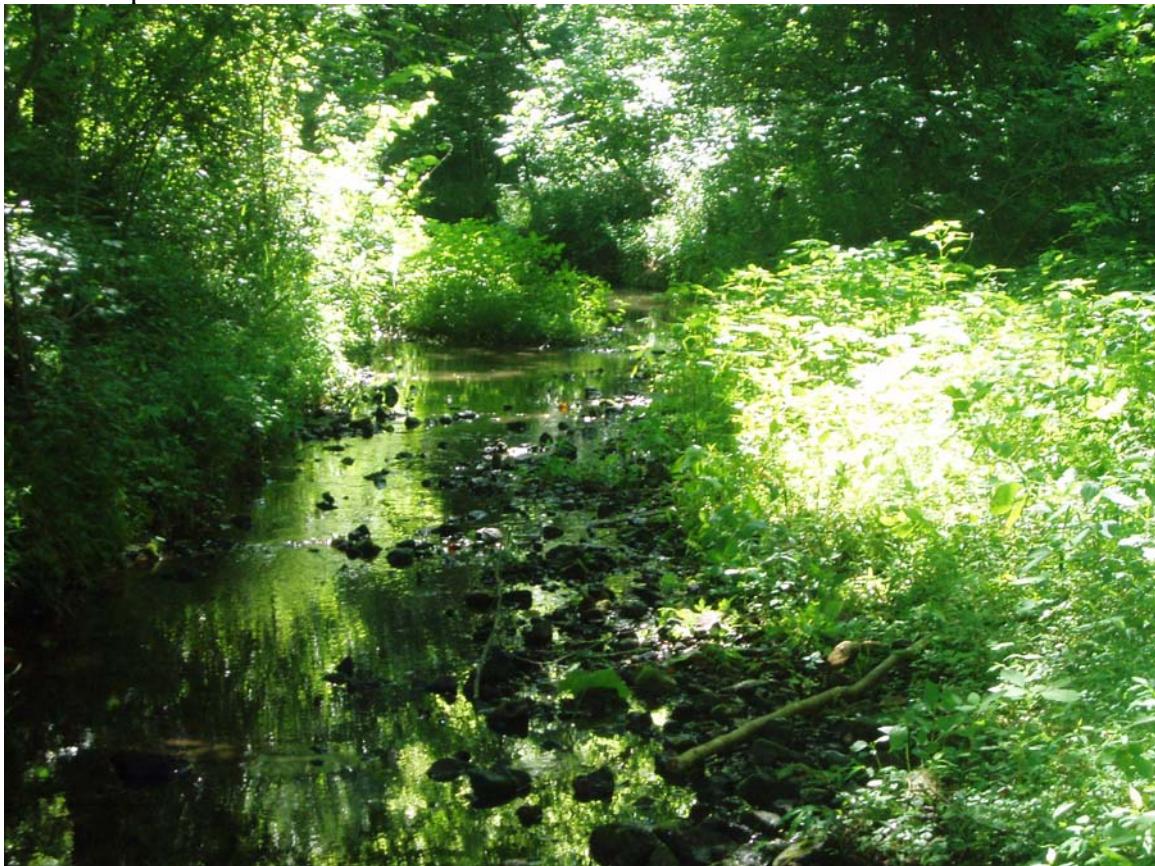
A.R. Henderson, L.R. Casten, N.R. Ozburn, R.A. Kennon

Semotilus atromaculatus 3

Erimyzon oblongus 1

Lepomis macrochirus 3

TOTAL species 3



Burcham Creek
(Cypress Creek/Tennessee River Drainage)
13 mi NW of Florence
Natchez Trace Parkway
Lauderdale Co., AL
7-Jun-06
34.924755 N, -87.8435416 W
A.R. Henderson, R.A. Kennon, L.R. Casten, N.R. Ozburn

<i>Campostoma oligolepis</i>	3
<i>Clinostomus funduloides</i>	6
<i>Semotilus atromaculatus</i>	6
<i>Fundulus catenatus</i>	1
<i>Fundulus olivaceus</i>	1
<i>Lepomis cyanellus</i>	1
<i>Etheostoma flabellare</i>	4

TOTAL species	7



Lindsey Creek
(Cypress Creek/Tennessee River Drainage)

14 mi NW of Florence

Natchez Trace Parkway

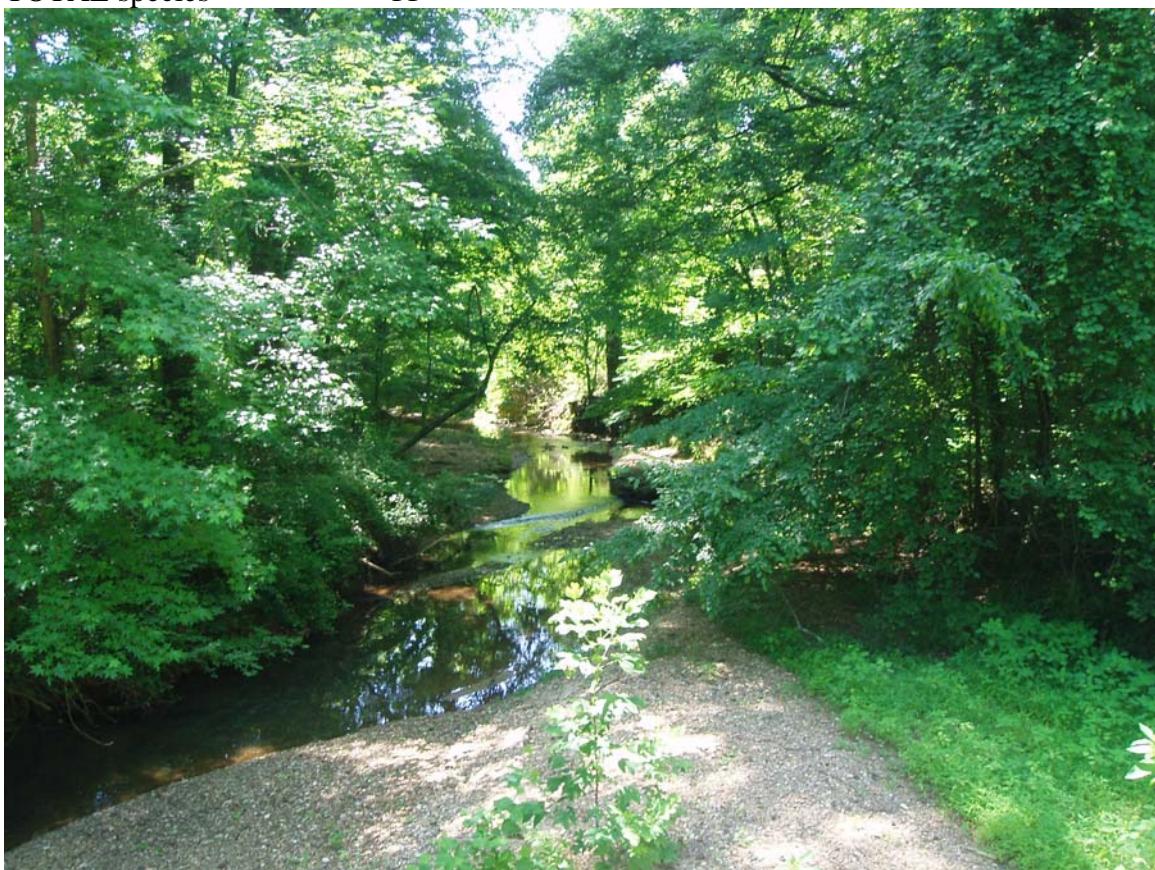
Lauderdale Co., AL

7-Jun-06

34.9419 N, -87.8286 W

L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Campostoma oligolepis</i>	2
<i>Clinostomus funduloides</i>	6
<i>Luxilus chrysocephalus</i>	1
<i>Lythrurus ardens</i>	12
<i>Semotilus atromaculatus</i>	2
<i>Hypentelium nigricans</i>	1
<i>Fundulus olivaceus</i>	1
<i>Gambusia affinis</i>	1
<i>Cottus carolinae</i>	1
<i>Etheostoma corona</i>	2
<i>Etheostoma simoterum</i>	2
<hr/>	
TOTAL species	11



Threet Creek

(Cypress Creek/Tennessee River Drainage)

15 mi NW of Florence

Natchez Trace Parkway

Lauderdale Co., AL

7-Jun-06

34.9547 N, -87.8216 W

L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Campostoma oligolepis</i>	1
<i>Clinostomus funduloides</i>	5
<i>Hemitremia flammea</i>	12
<i>Luxilus chrysocephalus</i>	7
<i>Lythrurus ardens</i>	13
<i>Erimyzon oblongus</i>	2
<i>Fundulus olivaceus</i>	2
<i>Gambusia affinis</i>	5
<i>Cottus carolinae</i>	1
<i>Lepomis megalotis</i>	1
<i>Etheostoma corona</i>	3
<i>Etheostoma duryi</i>	1
TOTAL species	12



45

Cooper Branch
(Cypress Creek/Tennessee River Drainage)
20 mi N of Florence
Natchez Trace Parkway
Wayne Co., TN
7-Jun-06
35.0074 N, -87.8214 W

L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Campostoma oligolepis</i>	2
<i>Clinostomus funduloides</i>	5
<i>Luxilus coccogenis</i>	4
<i>Lythrurus ardens</i>	14
<i>Fundulus catenatus</i>	1
<i>Fundulus olivaceus</i>	3
<i>Gambusia affinis</i>	1
<i>Cottus carolinae</i>	4
<i>Micropterus salmoides</i>	1
<i>Etheostoma duryi</i>	1
<i>Etheostoma flabellare</i>	2

TOTAL species	11



Trib., Cypress Creek
(Tennessee River drainage)
1.0 mi. N Alabama state line
Natchez Trace Parkway
Wayne Co., TN
11-March-07
35.015975 N, -87.823305W
C. E. Johnston, A. R. Henderson and D. E. Holt

<i>Etheostoma boschungi</i>	1
	--
TOTAL species	1



Cypress Creek
(Tennessee River Drainage)

20 mi N of Florence
Natchez Trace Parkway
Wayne Co., TN
7-Jun-06
35.0298 N, -87.8222 W

L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Clinostomus funduloides</i>	5
<i>Luxilus chrysocephalus</i>	1
<i>Luxilus coccogenis</i>	5
<i>Lythrurus ardens</i>	3
<i>Rhinichthys atratulus</i>	2
<i>Semotilus atromaculatus</i>	2
<i>Hypentelium nigricans</i>	1
<i>Cottus carolinae</i>	1
<i>Etheostoma flabellare</i>	7
<i>Etheostoma simoterum</i>	2

TOTAL species	10



Sweetwater Branch

(Shoal Creek/Tennessee River Drainage)

9 mi SW of Waynesboro

Natchez Trace Parkway

Wayne Co., TN

7-Jun-06

35.247972 N, -87.640385 W

L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Campostoma oligolepis</i>	1
<i>Clinostomus funduloides</i>	8
<i>Luxilus coccogenis</i>	2
<i>Lythrurus ardens</i>	1
<i>Notropis leuciodus</i>	1
<i>Semotilus atromaculatus</i>	1
<i>Cottus carolinae</i>	1
<i>Etheostoma caeruleum</i>	1
<i>Etheostoma simoterum</i>	3
<hr/>	
TOTAL species	9



49

Scab Branch

(Shoal Cr/Tennessee River Drainage)

9 mi SW of Waynesboro

Natchez Trace Parkway

Wayne Co., TN

7-Jun-06

35.251081 N, -87.633586 W

L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Campostoma oligolepis</i>	1
<i>Clinostomus funduloides</i>	19
<i>Phoxinus erythrogaster</i>	1
<i>Semotilus atromaculatus</i>	5
<i>Cottus carolinae</i>	3
<i>Etheostoma blennius</i>	2
<i>Etheostoma caeruleum</i>	3
<i>Etheostoma duryi</i>	3
<i>Etheostoma flabellare</i>	1

TOTAL species	9



50

Glenrock Branch

Shoal Creek/Tennessee River Drainage)

5 mi W of Lawrenceburg

Natchez Trace Parkway

Wayne Co., TN

8-Jun-06

35.251226 N, -87.653574 W

L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Campostoma oligolepis</i>	2
<i>Clinostomus funduloides</i>	14
<i>Luxilus chrysocephalus</i>	1
<i>Phoxinus erythrogaster</i>	6
<i>Rhinichthys atratulus</i>	2
<i>Semotilus atromaculatus</i>	2
<i>Hypentelium nigricans</i>	1
<i>Cottus carolinae</i>	1
<i>Etheostoma caeruleum</i>	3
<i>Etheostoma simoterum</i>	1
TOTAL species	10



51

Little Buffalo River
(Buffalo River/Tennessee River Drainage)
8 mi S of Hohenwald
Natchez Trace Parkway
Lewis Co., TN
8-Jun-06
35.4149 N, -87.5120 W

A.R. Henderson, L.R. Casten, N.R. Ozburn, R.A. Kennon

<i>Campostoma oligolepis</i>	1
<i>Clinostomus funduloides</i>	8
<i>Notropis leuciodus</i>	4
<i>Semotilus atromaculatus</i>	1
<i>Lepomis macrochirus</i>	1
<i>Etheostoma blennioides</i>	1
<i>Etheostoma blennius</i>	1
<i>Etheostoma flabellare</i>	1
<i>Etheostoma rufilineatum</i>	6
<i>Etheostoma simoterum</i>	1
TOTAL species	10



Buffalo River
(Tennessee River Drainage)

4 mi S of Hohenwald

Natchez Trace Parkway

Lewis Co., TN

34.470 N, -87.4669 W

7-Jun-06

R.A. Kennon, N.R. Ozburn, A.R. Henderson, L.R. Casten

<i>Campostoma oligolepis</i>	5
<i>Cyprinella venusta</i>	4
<i>Hybopsis amblops</i>	1
<i>Luxilus chrysocephalus</i>	4
<i>Nocomis micropogon</i>	1
<i>Notropis leuciodus</i>	9
<i>Moxostoma duquesnii</i>	1
<i>Fundulus catenatus</i>	1
<i>Etheostoma caeruleum</i>	1
<i>Etheostoma flabellare</i>	1
<i>Etheostoma simoterum</i>	6
<i>Etheostoma zonale</i>	5
TOTAL species	12



53

Little Swan Creek
(Big Swan Creek/Duck River/
Tennessee River Drainage)
8 mi E of Hohenwald
Natchez Trace Parkway
Lewis Co., TN
8-Jun-06
35.519369 N, -87.51896 W
R.A. Kennon, L.R. Casten, N.R. Ozburn, A.R. Henderson

<i>Campostoma oligolepis</i>	1
<i>Clinostomus funduloides</i>	11
<i>Phoxinus erythrogaster</i>	2
<i>Rhinichthys atratulus</i>	1
<i>Semotilus atromaculatus</i>	2
<i>Etheostoma flabellare</i>	4
<i>Etheostoma flavum</i>	4

TOTAL species	7



Duck River

(Tennessee River Drainage)

15 mi NW of Columbia

Natchez Trace Parkway

Maury Co., TN

9-Jun-06

35.7189416 N, -87.2655888 W

A.R. Henderson, L.R. Casten, N.R. Ozburn, R.A. Kennon

<i>Lepisosteus oculatus</i>	2
<i>Campostoma oligolepis</i>	1
<i>Cyprinella spiloptera</i>	10
<i>Hybopsis amblops</i>	1
<i>Luxilus chrysocephalus</i>	11
<i>Pimephales notatus</i>	1
<i>Semotilus atromaculatus</i>	2
<i>Moxostoma erythrurum</i>	2
<i>Labidesthes sicculus</i>	3
<i>Lepomis macrochirus</i>	2
<i>Lepomis megalotis</i>	4
<i>Lepomis microlophus</i>	1
<i>Micropterus punctulatus</i>	2
<i>Etheostoma rufilineatum</i>	1
<i>Etheostoma simoterum</i>	1
<i>Etheostoma zonale</i>	3
TOTAL species	16



Burns Branch
(Harperth River/Cumberland River Drainage)
10 mi SW of Franklin
Natchez Trace Parkway
Williamson Co., TN
9-Jun-06
35.843094 N, -87.055818 W
R.A. Kennon, A.R. Henderson, L.R. Casten, N.R. Ozburn

<i>Clinostomus funduloides</i>	2
<i>Phoxinus erythrogaster</i>	3
<i>Semotilus atromaculatus</i>	6
<i>Fundulus catenatus</i>	1
<i>Lepomis macrochirus</i>	1
<i>Micropterus salmoides</i>	1
<i>Etheostoma smithi</i>	2

TOTAL species	7



Garrison Creek
(Harpeth River/Cumberland River Drainage)
8 mi SW of Franklin
Natchez Trace Parkway
Williamson Co., TN
8-Jun-06
35.87547 N, -87.03098 W
R.A. Kennon, A.R. Henderson, L.R. Casten, N.R. Ozburn

<i>Campostoma oligolepis</i>	4
<i>Clinostomus funduloides</i>	3
<i>Lythrurus ardens</i>	7
<i>Fundulus catenatus</i>	2
<i>Lepomis microlophus</i>	1
<i>Etheostoma blennioides</i>	1
<i>Etheostoma caeruleum</i>	2
<i>Etheostoma flabellare</i>	1
<i>Etheostoma smithi</i>	3

TOTAL species	9



Wilkie Branch
(Harperth River/Tennessee River Drainage)
9 mi W of Franklin
Natchez Trace Parkway
Williamson Co., TN
9-Jun-06
35.8943 N, -87.0159 W
R.A. Kennon, N.R. Ozburn, L.R. Casten, A.R. Henderson

<i>Clinostomus funduloides</i>	2
<i>Lythrurus ardens</i>	1
<i>Phoxinus erythrogaster</i>	2
<i>Semotilus atromaculatus</i>	4
<i>Lepomis gulosus</i>	1
<i>Etheostoma crossopterum</i>	3
<i>Etheostoma flabellare</i>	1

TOTAL species	7



Dobbins Branch
(Harpeth River/Tennessee River Drainage)
8.5 mi W of Franklin
Natchez Trace Parkway
Williamson Co., TN
9-Jun-06
35.9063 N, -87.0072 W
R.A. Kennon, L.R. Casten, N.R. Ozburn, A.R. Henderson

<i>Campostoma oligolepis</i>	8
<i>Clinostomus funduloides</i>	2
<i>Phoxinus erythrogaster</i>	2
<i>Rhinichthys atratulus</i>	2
<i>Etheostoma crossopterum</i>	2
<i>Etheostoma flabellare</i>	3
<i>Etheostoma smithi</i>	1
<hr/>	
TOTAL species	7



Little East Fork
(Harper River/Cumberland River Drainage)
8 mi NW of Franklin
Natchez Trace Parkway
Williamson Co., TN
9-Jun-06
35.9844 N, -86.9904 W
L.R. Casten, A.R. Henderson, R.A. Kennon, N.R. Ozburn

<i>Phoxinus erythrogaster</i>	7
<i>Rhinichthys atratulus</i>	8
<i>Semotilus atromaculatus</i>	3
<i>Etheostoma crossopterum</i>	1
<i>Etheostoma flabellare</i>	1

TOTAL species	5



Table 60 - List of species and number collected on the Natchez Trace Parkway by site for the Mississippi River drainage, Mississippi. Site localities are listed in Tables 1-59.

Site number	1	2	3	4	5
Species					
<i>Campostoma anomalum</i>					15
<i>Cyprinella camura</i>	3	1			
<i>Cyprinella lutrensis</i>	13	4	26		
<i>Cyprinella venusta</i>			1		8
<i>Luxilus chrysocephalus</i>			5	3	7
<i>Lythrurus umbratilis</i>					20
<i>Notropis atherinoides</i>	1				
<i>Notropis longirostris</i>	1	3		4	7
<i>Pimephales notatus</i>	1				
<i>Pimephales vigilax</i>	4				
<i>Semotilus atromaculatus</i>				11	
<i>Carpoides cyprinus</i>			3		
<i>Ictalurus furcatus</i>					1
<i>Fundulus olivaceus</i>					3
<i>Gambusia affinis</i>	1				
<i>Lepomis macrochirus</i>	1				
<i>Lepomis megalotis</i>				1	6
<i>Micropterus punctulatus</i>	1	3	3		2
<i>Etheostoma caeruleum</i>					8
<i>Etheostoma whipplei</i>				1	3
<i>Percina sciera</i>		2			
<i>Percina vigil</i>			1		
Species richness	9	5	6	5	11

Total species richness 22

Table 61 - List of species and number collected on the Natchez Trace Parkway by site for the Big Black River drainage, Mississippi. Site localities are listed in Tables 1-59.

<u>Site number</u>	6	7	8	17	18	19
Species						
<i>Campostoma anomalum</i>	32					
<i>Cyprinella venusta</i>	4	27	4		1	
<i>Hybognathus nuchalis</i>	4					
<i>Luxilus chrysocephalus</i>	26			3		
<i>Lythrurus roseipinnis</i>	4				9	
<i>Lythrurus umbratilis</i>			2			2
<i>Notropis longirostris</i>				4		
<i>Pimephales notatus</i>	25	12				
<i>Semotilus atromaculatus</i>	2			11		1
<i>Erimyzon oblongus</i>	1					
<i>Ameiurus natalis</i>	2					
<i>Noturus gyrinus</i>			1			1
<i>Esox americanus</i>					2	
<i>Fundulus olivaceus</i>	2					
<i>Gambusia affinis</i>		5	2		5	1
<i>Lepomis cyanellus</i>	1	4				
<i>Lepomis macrochirus</i>	1	4	1			1
<i>Lepomis megalotis</i>	1	7	2	1	2	2
<i>Micropterus punctulatus</i>	1					
<i>Micropterus salmoides</i>	1		2			2
<i>Etheostoma proeliare</i>				1		1
<i>Etheostoma swaini</i>	3					
<i>Etheostoma whipplei</i>		1		1		
Species richness	15	7	8	5	4	9

Total species richness 23

Table 62 - List of species and number collected on the Natchez Trace Parkway by site for the Pearl River drainage, Mississippi. Site localities are listed in Tables 1-59.

<u>Site number</u>	9	10	11	12	13	14	15	16
Species								
<i>Lepisosteus osseus</i>			1					
<i>Cyprinella camura</i>	9							
<i>Cyprinella venusta</i>	14				3			
<i>Hybopsis winchelli</i>			2					
<i>Lythrurus roseipinnis</i>	19		6		10	36	1	
<i>Notemigonus crysoleucus</i>			1			5		12
<i>Notropis texanus</i>			7					
<i>Opsopoeodus emiliae</i>					10			
<i>Pimephales notatus</i>	19							
<i>Erimyzon oblongus</i>		14						
<i>Esox americanus</i>		5					1	
<i>Aphredoderus sayanus</i>					1			
<i>Fundulus olivaceus</i>	3		3	8	1	1	3	
<i>Gambusia affinis</i>		1	1		1	1		
<i>Labidesthes sicculus</i>		1						
<i>Centrarchus macropterus</i>					1			2
<i>Lepomis gulosus</i>		1	4					
<i>Lepomis macrochirus</i>					2	4		
<i>Lepomis megalotis</i>			4		3	2		
<i>Lepomis miniatus</i>			2					
<i>Micropterus salmoides</i>	1	1	1	4		3		
<i>Pomoxis annularis</i>				2				
<i>Etheostoma chlorosomum</i>						1	1	
<i>Etheostoma swaini</i>						2		
<i>Percina maculata</i>	1							
<i>Percina sciera</i>	1							
Species richness	8	7	10	3	8	10	3	3

Total species richness 26

Table 63 - List of species and number collected on the Natchez Trace Parkway by site for the Tombigbee River drainage, Mississippi. (part 1) Site localities are listed in Tables 1-59.

<u>Site number</u>	20	21	22	23	24	25	26	27
Species								
<i>Cyprinella venusta</i>		5			5	25		8
<i>Lythrurus bellus</i>		1		5	25	16		3
<i>Notemigonus crysoleucus</i>	68			1		2		2
<i>Notropis ammophilus</i>		4	2	1			34	
<i>Pimephales notatus</i>		7	12	6			4	
<i>Semotilus atromaculatus</i>		6		16	1		13	
<i>Erimyzon oblongus</i>				1				
<i>Ameiurus natalis</i>		1						
<i>Noturus funebris</i>				5				
<i>Esox americanus</i>							1	
<i>Fundulus olivaceus</i>		10	1	1	1			1
<i>Gambusia affinis</i>		15	6	12	5			1
<i>Lepomis cyanellus</i>	6							
<i>Lepomis gulosus</i>					1			
<i>Lepomis macrochirus</i>		1			2	5	1	1
<i>Lepomis megalotis</i>		1				2		1
<i>Micropterus punctulatus</i>		11						
<i>Micropterus salmoides</i>					2			
<i>Etheostoma nigrum</i>			1					
<i>Etheostoma swaini</i>			1					
<i>Etheostoma whipplei</i>		2	2	1			1	
<i>Percina sciera</i>						4		
Species richness	2	11	7	10	9	5	6	7
Total species richness	23							

Table 63 - List of species and number collected on the Natchez Trace Parkway by site for the Tombigbee River drainage, Mississippi. (part 3) Site localities are listed in Tables 1-59.

<u>Site number</u>	36	37
Species		
<i>Luxilus chrysocephalus</i>	1	5
<i>Lythrurus bellus</i>		2
<i>Notropis baileyi</i>	1	10
<i>Semotilus atromaculatus</i>	7	2
<i>Fundulus olivaceus</i>	4	
<i>Lepomis macrochirus</i>	3	
<i>Micropterus punctulatus</i>		3
<i>Etheostoma lachneri</i>		1
Species richness	5	6

Total species richness 8

Total species richness for Tombigbee drainage 31

Table 64 - List of species and number collected on the Natchez Trace Parkway by site for the Tennessee River drainage, Alabama and Tennessee. (part 1) Site localities are listed in Tables 1-59.

Site number	38	39	40	41	42	43	44	45
Species								
<i>Campostoma oligolepis</i>	7		4		3	2	1	2
<i>Clinostomus funduloides</i>					6	6	5	5
<i>Cyprinella splioptera</i>	4				1			
<i>Hemitremia flammea</i>							12	
<i>Luxilus chrysocephalus</i>	1		12			1	7	
<i>Luxilus coccogenis</i>								4
<i>Lythrurus ardens</i>			31			12	13	14
<i>Notropis texanus</i>			4					
<i>Semotilus atromaculatus</i>	4		27	3	6	2		
<i>Erimyzon oblongus</i>	1			1			2	
<i>Hypentelium nigricans</i>						1		
<i>Moxostoma eryththurum</i>	1							
<i>Esox americanus</i>	1							
<i>Fundulus catenatus</i>	1				1			1
<i>Fundulus olivaceus</i>	3	1			1	1	2	3
<i>Gambusia affinis</i>			3			1	5	1
<i>Cottus carolinae</i>						1	1	4
<i>Lepomis cyanellus</i>			4		1			
<i>Lepomis macrochirus</i>	7	1	2	3				
<i>Lepomis megalotis</i>	2	3	3				1	
<i>Leopmis microlophus</i>			1					
<i>Micropterus punctulatus</i>	2		5					
<i>Micropterus salmoides</i>			2			2		1
<i>Etheostoma corona</i>						2	3	
<i>Etheostoma crossopterum</i>			2					
<i>Etheostoma duryi</i>							1	1
<i>Etheostoma flabellare</i>					4			2
<i>Etheostoma rufilineatum</i>			4					
<i>Etheostoma simoterum</i>			1			2		
<i>Percina caprodes</i>		3						
Species richness	11	5	14	3	7	9	12	11
Total species richness		30						

Table 64 - List of species and number collected on the Natchez Trace Parkway by site for the Tennessee River drainage, Alabama and Tennessee. (part 2) Site localities are listed in Tables 1-59.

Site number	46	47	48	49	50	51	52	53	54
Species									
<i>Lepisosteus oculatus</i>									2
<i>Campostoma oligolepis</i>			1	1	2	1	5	1	1
<i>Clinostomus funduloides</i>	5	8	19	14	8	5	5	11	
<i>Cyprinella splioptera</i>									10
<i>Cyprinella venusta</i>								4	
<i>Hemitremia flammea</i>									
<i>Hybopsis amblops</i>								1	1
<i>Luxilus chryscephalus</i>	1				1		4		11
<i>Luxilus coccogenis</i>	5	2							
<i>Lythrurus ardens</i>	3	1						13	
<i>Nocomis micropogon</i>								1	
<i>Notropis leuciodus</i>			1			4		9	
<i>Notropis texanus</i>									
<i>Phoxinus erythrogaster</i>				1	6			2	
<i>Pimephales notatus</i>									1
<i>Rhinichthys atratulus</i>	2				2			1	
<i>Semotilus atromaculatus</i>	2	1	5	2	1			2	2
<i>Erimyzon oblongus</i>								2	
<i>Hypentelium nigricans</i>	1				1				
<i>Moxostoma erythrurum</i>									2
<i>Moxostoma duquesnei</i>								1	
<i>Esox americanus</i>									
<i>Fundulus catenatus</i>								1	
<i>Fundulus olivaceus</i>									
<i>Gambusia affinis</i>									
<i>Labidesthes sicculus</i>									3
<i>Cottus caroliniae</i>	1	1	3	1					
<i>Lepomis cyanellus</i>									
<i>Lepomis macrochirus</i>							1		2
<i>Lepomis megalotis</i>									4
<i>Leopmis microlophus</i>									1
<i>Micropterus punctulatus</i>									2
<i>Etheostoma blennioides</i>							1		
<i>Etheostoma blennius</i>					2		1		
<i>Etheostoma boschungi</i>	1								
<i>Etheostoma caeruleum</i>				1	3	3		1	
<i>Etheostoma crossopterum</i>				2					

<i>Etheostoma duryi</i>			3						
<i>Etheostoma flabellare</i>	7		1		1	1	4		
<i>Etheostoma flavum</i>							4		
<i>Etheostoma rufilineatum</i>					6			1	
<i>Etheostoma simoterum</i>	2	3		1	1	6		1	
<i>Etheostoma zonale</i>						5		3	
Species richness	1	10	9	9	10	10	12	11	16
Total species richness	46								
Total for Tennessee River drainage	49								

Table 65 - List of species and number collected on the Natchez Trace Parkway by site for the Cumberland River drainage, Tennessee. Site localities are listed in Tables 1-59.

Site number	55	56	57	58	59
Species					
<i>Campostoma oligolepis</i>		4		8	
<i>Clinostomus funduloides</i>	2	3	2	2	
<i>Lythrurus ardens</i>		7	1		
<i>Notropis leuciodus</i>			1		
<i>Phoxinus erythrogaster</i>	3		2	2	7
<i>Rhinichthys atratulus</i>				2	8
<i>Semotilus atromaculatus</i>	6		4		3
<i>Fundulus catenatus</i>	1	2			
<i>Leopmis gulosus</i>			1		
<i>Lepomis macrochirus</i>	1				
<i>Lepomis megalotis</i>					
<i>Leopmis microlophus</i>		1			
<i>Micropterus salmoides</i>	1				
<i>Etheostoma blennioides</i>		1			
<i>Etheostoma caeruleum</i>		2			
<i>Etheostoma crossopterum</i>			3	2	1
<i>Etheostoma derivativum</i>	2	2		1	
<i>Etheostoma flabellare</i>		1	1	3	1
<i>Etheostoma simoterum</i>		2			
Species richness	7	10	7	7	5

Total species richness 19

Table 66 - List of species and status in Natchez Trace Parkway National Park. Common names follow Nelson et al., 2004.

Scientific name	Common Name	Park Status	Abundance	Nativity
<i>Ameiurus natalis</i>	yellow bullhead	Present in Park	Abundant	Native
<i>Amia calva</i>	bowfin	Present in Park	Uncommon	Native
<i>Aphredoderus sayanus</i>	pirate perch	Present in Park	Common	Native
<i>Campostoma anomalum</i>	central stoneroller	Present in Park	Abundant	Native
<i>Campostoma oligolepis</i>	largescale stoneroller	Present in Park	Abundant	Native
<i>Carpiodes carpio</i>	river carpsucker	Present in Park	Rare	Native
<i>Carpiodes cyprinus</i>	quillback	Present in Park	Uncommon	Native
<i>Carpiodes velifer</i>	highfin carpsucker	Present in Park	Uncommon	Native
<i>Centrarchus macropterus</i>	flier	Present in Park	Common	Native
<i>Clinostomus funduloides</i>	rosyside dace	Present in Park	Abundant	Native
<i>Cottus carolinae</i>	banded sculpin	Present in Park	Abundant	Native
<i>Cyprinella camura</i>	bluntnose shiner	Present in Park	Uncommon	Native
<i>Cyprinella galactura</i>	whitetail shiner	Present in Park	Common	Native
<i>Cyprinella lutrensis</i>	red shiner	Present in Park	Common	Non-Native
<i>Cyprinella spiloptera</i>	spotfin shiner	Present in Park	Uncommon	Native
<i>Cyprinella venusta</i>	blacktail shiner	Present in Park	Abundant	Native
<i>Cyprinella whipplei</i>	steelcolor shiner	Present in Park	Common	Native
<i>Dorosoma cepedianum</i>	gizzard shad	Present in Park	Uncommon	Native
<i>Dorosoma petenense</i>	threadfin shad	Present in Park	Uncommon	Native
<i>Erimyzon oblongus</i>	creek chubsucker	Present in Park	Abundant	Native
<i>Esox americanus</i>	redfin pickerel	Present in Park	Abundant	Native

<i>Etheostoma blennioides</i>	greenside darter	Present in Park	Uncommon	Native
<i>Etheostoma blennius</i>	blenny darter	Present in Park	Uncommon	Native
<i>Etheostoma boschungi</i>	slackwater darter	Present in Park	Rare	Native
<i>Etheostoma caeruleum</i>	rainbow darter	Present in Park	Abundant	Native
<i>Etheostoma chlorosomum</i>	bluntnose darter	Present in Park	Uncommon	Native
<i>Etheostoma corona</i>	crown darter	Present in Park	Common	Native
<i>Etheostoma crossopterum</i>	fringed darter	Present in Park	Common	Native
<i>Etheostoma derivativum</i>	stone darter	Present in Park	Uncommon	Native
<i>Etheostoma duryi</i>	blackside snubnose darter	Present in Park	Abundant	Native
<i>Etheostoma flabellare</i>	fantail darter	Present in Park	Abundant	Native
<i>Etheostoma flavum</i>	saffron darter	Present in Park	Rare	Native
<i>Etheostoma histrio</i>	harlequin darter	Present in Park	Uncommon	Native
<i>Etheostoma kennicotti</i>	stripetail darter	Present in Park	Common	Native
<i>Etheostoma lachneri</i>	Tombigbee darter	Present in Park	Uncommon	Native
<i>Etheostoma lynceum</i>	brighteye darter	Present in Park	Unknown	Native
<i>Etheostoma nigrum</i>	johnny darter	Present in Park	Uncommon	Native
<i>Etheostoma proeliare</i>	cypress darter	Present in Park	Uncommon	Native
<i>Etheostoma rufilineatum</i>	redline darter	Present in Park	Abundant	Native
<i>Etheostoma simoterum</i>	snubnose darter	Present in Park	Abundant	Native
<i>Etheostoma swaini</i>	Gulf darter	Present in Park	Common	Native
<i>Etheostoma whipplei</i>	redfin darter	Present in Park	Abundant	Native
<i>Etheostoma zonale</i>	banded darter	Present in Park	Common	Native
<i>Fundulus catenatus</i>	northern studfish	Present in Park	Abundant	Native
<i>Fundulus notatus</i>	blackstripe topminnow	Present in Park	Abundant	Native
<i>Fundulus olivaceus</i>	blackspotted topminnow	Present in Park	Abundant	Native
<i>Gambusia affinis</i>	western mosquitofish	Present in Park	Abundant	Native
<i>Hemitremia flammea</i>	flame chub	Present in Park	Rare	Native
<i>Hybognathus nuchalis</i>	Mississippi silvery minnow	Present in Park	Uncommon	Native
<i>Hybopsis amblops</i>	bigeye chub	Present in Park	Rare	Native
<i>Hybopsis winchelli</i>	clear chub	Present in Park	Uncommon	Native
<i>Hypentelium nigricans</i>	northern hog sucker	Present in Park	Abundant	Native
<i>Ictalurus punctatus</i>	channel catfish	Present in Park	Common	Native
<i>Labidesthes sicculus</i>	brook silverside	Present in Park	Common	Native
<i>Lepisosteus oculatus</i>	spotted gar	Present in Park	Common	Native
<i>Lepisosteus osseus</i>	longnose gar	Present in Park	Common	Native
<i>Lepomis cyanellus</i>	green sunfish	Present in Park	Abundant	Native
<i>Lepomis gulosus</i>	warmouth	Present in Park	Common	Native
<i>Lepomis macrochirus</i>	bluegill	Present in Park	Abundant	Native
<i>Lepomis megalotis</i>	longear sunfish	Present in Park	Abundant	Native
<i>Lepomis microlophus</i>	redear sunfish	Present in Park	Abundant	Native
<i>Lepomis miniatus</i>	redspotted sunfish	Present in Park	Uncommon	Native
<i>Luxilus chryscephalus</i>	striped shiner	Present in Park	Abundant	Native
<i>Luxilus coccogenis</i>	warpaint shiner	Present in Park	Common	Native
<i>Luxilus zonistius</i>	bandfin shiner	Present in Park	Uncommon	Non-Native
<i>Lythrurus ardens</i>	rosefin shiner	Present in Park	Abundant	Native
<i>Lythrurus bellus</i>	pretty shiner	Present in Park	Abundant	Native
<i>Lythrurus roseipinnis</i>	cherryfin shiner	Present in Park	Abundant	Native
<i>Lythrurus umbratilis</i>	redfin shiner	Present in Park	Common	Native
<i>Micropterus punctulatus</i>	spotted bass	Present in Park	Abundant	Native

<i>Micropterus salmoides</i>	largemouth bass	Present in Park	Abundant	Native
<i>Minytrema melanops</i>	spotted sucker	Present in Park	Abundant	Native
<i>Moxostoma duquesnei</i>	black redhorse	Present in Park	Common	Native
<i>Moxostoma erythrurum</i>	golden redhorse	Present in Park	Abundant	Native
<i>Nocomis leptocephalus</i>	bluehead chub	Present in Park	Abundant	Native
<i>Nocomis micropogon</i>	river chub	Present in Park	Uncommon	Native
<i>Notemigonus crysoleucas</i>	golden shiner	Present in Park	Abundant	Native
<i>Notropis ammophilus</i>	orangefin shiner	Present in Park	Abundant	Native
<i>Notropis atherinoides</i>	emerald shiner	Present in Park	Abundant	Native
<i>Notropis baileyi</i>	rough shiner	Present in Park	Abundant	Native
<i>Notropis leuciodus</i>	Tennessee shiner	Present in Park	Abundant	Native
<i>Notropis longirostris</i>	longnose shiner	Present in Park	Abundant	Native
<i>Notropis stilius</i>	silverstripe shiner	Present in Park	Uncommon	Native
<i>Notropis telescopus</i>	telescope shiner	Present in Park	Common	Native
<i>Notropis texanus</i>	weed shiner	Present in Park	Abundant	Native
<i>Notropis wickliffi</i>	channel shiner	Present in Park	Rare	Native
<i>Noturus funebris</i>	black madtom	Present in Park	Uncommon	Native
<i>Noturus gyrinus</i>	tadpole madtom	Present in Park	Uncommon	Native
<i>Noturus miurus</i>	brindled madtom	Present in Park	Uncommon	Native
<i>Opsopoeodus emiliae</i>	pugnose minnow	Present in Park	Abundant	Native
<i>Percina caprodes</i>	logperch	Present in Park	Abundant	Native
<i>Percina maculata</i>	blackside darter	Present in Park	Common	Native
<i>Percina sciera</i>	dusky darter	Present in Park	Common	Native
<i>Percina vigil</i>	saddleback darter	Present in Park	Common	Native
<i>Phoxinus erythrogaster</i>	southern redbelly dace	Present in Park	Common	Native
<i>Pimephales notatus</i>	bluntnose minnow	Present in Park	Abundant	Native
<i>Pimephales vigilax</i>	bullhead minnow	Present in Park	Abundant	Native
<i>Pomoxis annularis</i>	white crappie	Present in Park	Common	Native
<i>Pomoxis nigromaculatus</i>	black crappie	Present in Park	Abundant	Native
<i>Rhinichthys atratulus</i>	eastern blacknose dace	Present in Park	Abundant	Native
<i>Semotilus atromaculatus</i>	creek chub	Present in Park	Abundant	Native
<i>Alosa chrysochloris</i>	skipjack herring	Probably Present	NA	Native
<i>Ambloplites ariommus</i>	shadow bass	Probably Present	NA	Native
<i>Ambloplites rupestris</i>	rock bass	Probably Present	NA	Native
<i>Ameiurus melas</i>	black bullhead	Probably Present	NA	Native
<i>Ammocrypta beanii</i>	naked sand darter	Probably Present	NA	Native
<i>Anguilla rostrata</i>	American eel	Probably Present	NA	Native
<i>Aplodinotus grunniens</i>	freshwater drum	Probably Present	NA	Native
<i>Cottus bairdii</i>	mottled sculpin	Probably Present	NA	Native
<i>Crystallaria asprella</i>	crystal darter	Probably Present	NA	Native
<i>Cyprinus carpio</i>	common carp	Probably Present	NA	Non-Native
<i>Erimonax monachus</i>	spotfin chub	Probably Present	NA	Native
<i>Erimystax insignis</i>	blotched chub	Probably Present	NA	Native
<i>Erimyzon suetta</i>	lake chubsucker	Probably Present	NA	Native
<i>Erimyzon tenuis</i>	sharpfin chubsucker	Probably Present	NA	Native
<i>Esox niger</i>	chain pickerel	Probably Present	NA	Native
<i>Etheostoma denoncourti</i>	golden darter	Probably Present	NA	Native
<i>Etheostoma jessiae</i>	blueside darter	Probably Present	NA	Native
<i>Etheostoma luteovinctum</i>	redband darter	Probably Present	NA	Native

<i>Etheostoma meridianum</i>	southern sand darter	Probably Present	NA	Native
<i>Etheostoma neopterum</i>	lollipop darter	Probably Present	NA	Native
<i>Etheostoma nigripinne</i>	blackfin darter	Probably Present	NA	Native
<i>Etheostoma parvipinne</i>	goldstripe darter	Probably Present	NA	Native
<i>Etheostoma rubrum</i>	bayou darter	Probably Present	NA	Native
<i>Etheostoma rupestre</i>	rock darter	Probably Present	NA	Native
<i>Etheostoma spectabile</i>	orangethroat darter	Probably Present	NA	Native
<i>Etheostoma squamiceps</i>	spottail darter	Probably Present	NA	Native
<i>Etheostoma stigmaeum</i>	speckled darter	Probably Present	NA	Native
<i>Etheostoma virgatum</i>	striped darter	Probably Present	NA	Native
<i>Etheostoma zonistium</i>	bandfin darter	Probably Present	NA	Native
<i>Fundulus notti</i>	bayou topminnow	Probably Present	NA	Native
<i>Hypentelium etowanum</i>	Alabama hog sucker	Probably Present	NA	Native
<i>Ichthyomyzon bdellium</i>	Ohio lamprey	Probably Present	NA	Native
<i>Ichthyomyzon castaneus</i>	chestnut lamprey	Probably Present	NA	Native
<i>Ichthyomyzon gagei</i>	southern brook lamprey	Probably Present	NA	Native
<i>Ichthyomyzon greeleyi</i>	mountain brook lamprey	Probably Present	NA	Native
<i>Ictalurus furcatus</i>	blue catfish	Probably Present	NA	Native
<i>Ictiobus bubalus</i>	smallmouth buffalo	Probably Present	NA	Native
<i>Ictiobus cyprinellus</i>	bigmouth buffalo	Probably Present	NA	Native
<i>Lampetra aepyptera</i>	least brook lamprey	Probably Present	NA	Native
<i>Lepomis humilis</i>	orangespotted sunfish	Probably Present	NA	Native
<i>Lepomis punctatus</i>	spotted sunfish	Probably Present	NA	Native
<i>Lythrurus fasciolaris</i>	scarlet shiner	Probably Present	NA	Native
<i>Lythrurus fumeus</i>	ribbon shiner	Probably Present	NA	Native
<i>Micropterus dolomieu</i>	smallmouth bass	Probably Present	NA	Unknown
<i>Morone mississippiensis</i>	yellow bass	Probably Present	NA	Native
<i>Moxostoma anisurum</i>	silver redhorse	Probably Present	NA	Native
<i>Moxostoma poecilurum</i>	blacktail redhorse	Probably Present	NA	Native
<i>Nocomis effusus</i>	redtail chub	Probably Present	NA	Native
<i>Notropis ariommus</i>	popeye shiner	Probably Present	NA	Native
<i>Notropis boops</i>	bigeye shiner	Probably Present	NA	Native
<i>Notropis buccatus</i>	silverjaw minnow	Probably Present	NA	Native
<i>Notropis micropteryx</i>	highland shiner	Probably Present	NA	Native
<i>Notropis photogenis</i>	silver shiner	Probably Present	NA	Native
<i>Notropis rubellus</i>	rosyface shiner	Probably Present	NA	Native
<i>Notropis volucellus</i>	mimic shiner	Probably Present	NA	Native
<i>Noturus elegans</i>	elegant madtom	Probably Present	NA	Native
<i>Noturus eleutherus</i>	mountain madtom	Probably Present	NA	Native
<i>Noturus exilis</i>	slender madtom	Probably Present	NA	Native
<i>Noturus hildebrandi</i>	least madtom	Probably Present	NA	Native
<i>Noturus leptacanthus</i>	speckled madtom	Probably Present	NA	Native
<i>Noturus nocturnus</i>	freckled madtom	Probably Present	NA	Native
<i>Noturus phaeus</i>	brown madtom	Probably Present	NA	Native
<i>Percina burtoni</i>	blotchside logperch	Probably Present	NA	Native
<i>Percina evides</i>	gilt darter	Probably Present	NA	Native
<i>Percina lenticula</i>	freckled darter	Probably Present	NA	Native
<i>Percina macrocephala</i>	longhead darter	Probably Present	NA	Native
<i>Percina nigrofasciata</i>	blackbanded darter	Probably Present	NA	Native

<i>Percina phoxocephala</i>	slenderhead darter	Probably Present	NA	Native
<i>Percina shumardi</i>	river darter	Probably Present	NA	Native
<i>Phenacobius uranops</i>	stargazing minnow	Probably Present	NA	Native
<i>Pylodictis olivaris</i>	flathead catfish	Probably Present	NA	Native
<i>Sander canadensis</i>	sauger	Probably Present	NA	Native
<i>Adinia xenica</i>	diamond killifish	Unconfirmed	NA	Unknown
<i>Catostomus commersonii</i>	white sucker	Unconfirmed	NA	Non-Native
<i>Ctenogobius shufeldti</i>	freshwater goby	Unconfirmed	NA	Unknown
<i>Cyprinodon variegatus</i>	sheepshead minnow	Unconfirmed	NA	Native
<i>Elassoma alabamae</i>	spring pygmy sunfish	Unconfirmed	NA	Native
<i>Etheostoma aqua</i>	coppercheek darter	Unconfirmed	NA	Native
<i>Etheostoma cinereum</i>	ashy darter	Unconfirmed	NA	Native
<i>Etheostoma fusiforme</i>	swamp darter	Unconfirmed	NA	Native
<i>Etheostoma microlepidum</i>	smallscale darter	Unconfirmed	NA	Native
<i>Etheostoma pyrrhogaster</i>	firebelly darter	Unconfirmed	NA	Native
<i>Etheostoma tuscumbia</i>	Tuscumbia darter	Unconfirmed	NA	Native
<i>Fundulus chrysotus</i>	golden topminnow	Unconfirmed	NA	Native
<i>Fundulus dispar</i>	starhead topminnow	Unconfirmed	NA	Native
<i>Hiodon alosoides</i>	goldeye	Unconfirmed	NA	Native
<i>Lampetra appendix</i>	American brook lamprey	Unconfirmed	NA	Native
<i>Leiostomus xanthurus</i>	spot	Unconfirmed	NA	Native
<i>Lepomis auritus</i>	redbreast sunfish	Unconfirmed	NA	Non-Native
<i>Lythrurus lirius</i>	mountain shiner	Unconfirmed	NA	Native
<i>Macrhybopsis aestivalis</i>	speckled chub	Unconfirmed	NA	Native
<i>Menidia peninsulae</i>	tidewater silverside	Unconfirmed	NA	Native
<i>Mugil cephalus</i>	striped mullet	Unconfirmed	NA	Unknown
<i>Mugil curema</i>	white mullet	Unconfirmed	NA	Unknown
<i>Notropis lutipinnis</i>	yellowfin shiner	Unconfirmed	NA	Native
<i>Notropis maculatus</i>	taillight shiner	Unconfirmed	NA	Native
<i>Notropis melanostomus</i>	blackmouth shiner	Unconfirmed	NA	Native
<i>Perca flavescens</i>	yellow perch	Unconfirmed	NA	Non-Native
<i>Pteronotropis signipinnis</i>	flagfin shiner	Unconfirmed	NA	Native
<i>Pteronotropis welaka</i>	bluenose shiner	Unconfirmed	NA	Native
<i>Speoplatyrhinus poulsoni</i>	Alabama cavefish	Unconfirmed	NA	Native
<i>Trinectes maculatus</i>	hogchoker	Unconfirmed	NA	Native
<i>Typhlichthys subterraneus</i>	southern cavefish	Unconfirmed	NA	Native
<i>Ammocrypta vivax</i>	scaly sand darter	Historic	NA	Native
<i>Elassoma zonatum</i>	banded pygmy sunfish	Historic	NA	Native
<i>Erimystax dissimilis</i>	streamline chub	Historic	NA	Native
<i>Etheostoma asprigene</i>	mud darter	Historic	NA	Native
<i>Etheostoma gracile</i>	slough darter	Historic	NA	Native
<i>Hybognathus hayi</i>	cypress minnow	Historic	NA	Native
<i>Ictiobus niger</i>	black buffalo	Historic	NA	Native
<i>Lepomis marginatus</i>	dollar sunfish	Historic	NA	Native
<i>Morone chrysops</i>	white bass	Historic	NA	Native
<i>Moxostoma breviceps</i>	smallmouth redhorse	Historic	NA	Native
<i>Moxostoma carinatum</i>	river redhorse	Historic	NA	Native
<i>Moxostoma macrolepidotum</i>	shorthead redhorse	Historic	NA	Native
<i>Percina aurora</i>	pearl darter	Historic	NA	Native

<i>Phenacobius mirabilis</i>	suckermouth minnow	Historic	NA	Native
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