

McKinzie May

Dr. Tripplett

Ichthyology

May 5, 2014

## 1. Phylogenetic Order:

ORDER	FAMILY	SCIENTIFIC NAME
Myliobatiformes	Dasyatidae	Dasyatis sabina
Clupeiformes	Clupeidae	Brevoortia patronus
Clupeiformes	Clupeidae	Dorosoma petenense
Clupeiformes	Clupeidae	Jenkinsia lamprotaenia
Clupeiformes	Engraulidae	Anchoa mitchilli
Cypriniformes	Catostomidae	Moxostoma duquesnei
Cypriniformes	Catostomidae	Hypentelium nigricans
Cypriniformes	Cyprinidae	Notropis boops
Cypriniformes	Cyprinidae	Notropis amblops
Cypriniformes	Cyprinidae	Cyprinella venusta
Cypriniformes	Cyprinidae	Notropis zonatus
Cypriniformes	Cyprinidae	Pimphales notatus
Cypriniformes	Cyprinidae	Luxilus cardinalis
Cypriniformes	Cyprinidae	Notropis percobromus
Cypriniformes	Cyprinidae	Campostoma anomalum
Cypriniformes	Cyprinidae	Luxilus pilsbryi
Cypriniformes	Cyprinidae	Nocomis biguttatus
Cypriniformes	Cyprinidae	Campostoma oligolepis
Cypriniformes	Cyprinidae	Notropis nubilus
Cypriniformes	Cyprinidae	Phoxinus erythrogaster
Cypriniformes	Cyprinidae	Nocomis asper
Cypriniformes	Cyprinidae	Hybopsis dissimilis
Cypriniformes	Cyprinidae	Luxilus cornutus
Cypriniformes	Cyprinidae	Notropis texanus
Cypriniformes	Cyprinidae	Cyprinella galactura
Siluriformes	Ictaluridae	Noturus albater
Siluriformes	Ictaluridae	Noturus exilis
Siluriformes	Ariidae	Ariopsis felis
salmoniformes	Salmonidae	Oncorhynchus mykiss
Aulopiformes	Synodontidae	Synodus foetens
Gadiformes	Merlucciidae	Urophycis regia
Gadiformes	Physidae	Urophycis floridana

ophidiiformes	Ophidiidae	Lepophidium brevibarbe
ophidiiformes	Ophidiidae	Ophidion josephi
Pleuronectiformes	Achiridae	Trinectes maculatus
Pleuronectiformes	Cynoglossidae	Symphurus plagiusa
Pleuronectiformes	Paralichthyidae	Etropus crossotus
Pleuronectiformes	Paralichthyidae	Citharichthys macrops
Pleuronectiformes	Paralichthyidae	Syacium papillosum
Pleuronectiformes	Paralichthyidae	Paralichthys lethostigma
Pleuronectiformes	Paralichthyidae	Paralichthys squamilentus
Antheriniformes	Atherinopsidae	Membras martinica
Antheriniformes	Atherinopsidae	Menidia peninsulae
Antheriniformes	Atherinidae	Labidesthes sicculus
Cyprinodontiformes	Cyprinodontidae	Cyprinodon variegatus
Cyprinodontiformes	poeciliidae	Gambusia affinis
Cyprinodontiformes	Poeciliidae	Poecilia latipinna
Cyprinodontiformes	Poeciliidae	Gambusia affinis
Cyprinodontiformes	Fundulidae	Fundulus grandis
Cyprinodontiformes	Fundulidae	Fundulus pulvereus
Cyprinodontiformes	Fundulidae	Adinia xenica
Cyprinodontiformes	Fundulidae	Lucania parva
Cyprinodontiformes	Fundulidae	Fundulus majalis
Cyprinodontiformes	Fundulidae	Fundulus olivaceus
Cyprinodontiformes	Fundulidae	Fundulus catenatus
Mugiliformes	Mugilidae	Mugil curema
Mugiliformes	Mugilidae	Mugil cephalus
Gobiesociformes	Gobiesocidae	Gobiesox strumosus
Tetraodontiformes	Tetraodontidae	Sphoeroides parvus
Perciformes	Eleotridae	Dormitator maculatus
Perciformes	gobiidae	Ctenogobius boleosoma
Perciformes	gobiidae	Gobiosoma boscii
Perciformes	Syngnathidae	Hippocampus erectus
Perciformes	Trichiuridae	Trichiurus lepturus
Perciformes	Stromateidae	Peprilus burti
Perciformes	Scombridae	Thunnus atlanticus
Perciformes	Scombridae	Scomberomorus maculatus
Perciformes	Sphyraenidae	Sphyraena guachancho
Perciformes	Lutjanidae	Lutjanus campechanus
Perciformes	Moronidae	Morone chrysops
Perciformes	Sciaenidae	Leiostomus xanthurus
Perciformes	Sciaenidae	Menticirrhus littoralis
Perciformes	Sciaenidae	Stellifer lanceolatus
Perciformes	Sciaenidae	Cynoscion arenarius
Perciformes	Sciaenidae	Menticirrhus americanus

Perciformes	Sciaenidae	Micropogonias undulatus
Perciformes	Sciaenidae	Sciaenops ocellatus
perciformes	sparidae	Stenotomus caprinus
perciformes	Sparidae	Lagodon rhomboides
perciformes	Sparidae	Archosargus probatocephalus
Perciformes	Centrarchidae	Lepomis macrochirus
Perciformes	Centrarchidae	Lepomis cyanellus
Perciformes	Centrarchidae	Micropterus salmoides
Perciformes	Centrarchidae	Lepomis megalotis
Perciformes	Centrarchidae	Lepomis humilus
Perciformes	Carangidae	Trachurus lathami
Perciformes	Serranidae	Diplectrum bivittatum
Perciformes	Serranidae	Perca formosa
Perciformes	percidae	Etheostoma zonale
Perciformes	percidae	Etheostoma cragini
Perciformes	percidae	Etheostoma flabellare
Perciformes	percidae	Etheostoma microperca
Perciformes	Percidae	Percina caprodes
Perciformes	percidae	Etheostoma spectabile
Perciformes	Percidae	Etheostoma careuleum
Perciformes	Percidae	Ammycrypta vivax
Perciformes	Percidae	Etheostoma punctulatum
Scorpaeniformes	Triglidae	Prionotus rubio
Scorpaeniformes	Triglidae	Prionotus tribulus
Scorpaeniformes	Cottidae	Cottus carolinae
Scorpaeniformes	Cottidae	Cottus hypselurus

## 2. Chronological Site Description:

3/17/2014

Billy Goat Ramp

30.27206 N, 88.08156 W

Mobile Alabama

Habitat: Saltwater Bay

Species Collected: Spotted Hake (*Urophycis regius*) (1), Darter Goby (*Ctenogobius boleosoma*) (1), Rough Silverside (*Membras martinica*) (1), Tidewater Silverside (*Menidia peninsulae*) (4), Sailfin Molly (*Poecilia latipinna*) (4), Stripped Mullet (*Mugil cephalus*) (43), White Mullet (*Mugil curema*) (43), Spot Croaker (*Leiostamus xanthurus*) (24), Sheepshead Minnow (*Cyprinodon variegatus*) (1) Southern Hake (*Urophycis floridana*) (2), Blackedge Cuskeel (*Lepophidium*

May 4

pheromystax) (4), Gulf Killifish (*Fundulus grandis*) (1), Rough Scad (*Trachurus lathami*) (1), Gulf Menhaden (*Brevoortia patronus*) (19), Black Fin Tuna (Head) (*Thunnus atlanticus*) (1-Picture), Skillet Fish (*Gobiosox strumosus*) (1), Darter Goby (*Ctenogobius boleosoma*) (7), Bayou Killifish (*Fundulus pulvereus*) (1), Diamond Killifish (*Adinia xenic*) (3), Tidewater Silverside (*Menidia peninsulae*) (2), Gulf Killifish (*Fundulus grandis*) (2).

Collectors: Class

3/18/2014

Ocean Trawl

30.257584 N, 88.069925 W

Mobile Alabama

Habitat: Ocean

Species Collected: Hardhead Catfish (*Ariopsis felis*) (6), Gulf Kingfish (*Menticirrhus littoralis*) (1), Red Snapper (*Lutjanus campechanus*) (1), Blackwing Sea Robin (*Prionotus rubio*) (5), Atlantic Cutlassfish (*Trichiurus lepturus*) (1), Least Puffer (*Spoeoroides parvus*) (4), Star Drum (*Stellifer laceolatus*) (1), Sand Sea trout (*Cynoscion arenarius*) (10), Gulf Butterfish (*Peprilus triacnathus*) (5), Dwarf Sand Perch (*Diplectum bivittatum*) (8), Southern Kingfish (*Mentirrhhus americanus*) (2), Bighead Sea Robin (*Prionotus tribulus*) (1), Fringed Flounder (*Etropus crossotus*) (5), Spotted Whiff (*Citharichthys macrops*) (2), Dusky Flounder (*Syacium papillosum*) (4), Sand Perch (*Diplectum formosum*) (8), Bay Anchovy (*Anchoa mitchilli*) (19), Long Spine Porgy (*Stenotomus caprinus*) (6), Atlantic Stingray (*Dasyatis Sabina*) (1), Atlantic Croaker (*Micropogonias undulates*) (1), Hogchoaker (*Trinectes maculatus*) (1), Pinfish (*Lagodon rhomboids*) (1), Threadfin Shad (*Dorosoma Pretense*) (8), Crested Cusk-eel (*Ophidion josephi*) (1), Spotted Hake (*Urophycis regia*) (5), Southern Hake (*Merluccius australis*) (3), Sheepshead (*Archosargus probatocephalus*) (1- Picture), Inshore Lizardfish (*Synodus foetens*) (1-Picture), Lined Seahorse (*Hippocampus ercetus*) (1-Picture), Guaguanche (*Sphyaena guachancho*) (1-Picture).

Collectors: Class

3/19/2014

Camp Site Beach

30.246176 N, 88.082806

Mobile Alabama

 Habitat: Ocean off of beach

Species Collected: Stripped Mullet (*Mugil cephalus*) (9), Gulf Butterfish (*Peprilus burti*) (3), Gulf Kingfish (*Menticirrhus littoralis*) (1), Bay Anchovy (*Anchoa mitchilli*) (1), Southern Flounder (*Paralichthys lethostigma*) (2), Skillet Fish (*Gobiesox strumosus*) (1), Sheepshead Minnow (*Cyprinodon variegatus*) (10), White Mullet (*Mugil curema*) (11), Spot Croaker (*Leiostomus xanthurus*) (11), Rainwater Killifish (*Lucania parva*) (1), Dwarf Herring (*Jenkinsia lamprotaenia*) (1), Striped Killifish (*Fundulus majalis*) (3), Sailfin Molly (*Poecilia latipinna*) (6), Fat Sleeper (*Dormitator maculatus*) (1).

Collectors: Class


3/19/2014

Airport Marsh

30.27206 N, 88.12998 W

Mobile Alabama

Habitat: Marsh

 Species Collected: Sheepshead Minnow (*Cyprinodon variegatus*) (10), White Mullet (*Mugil curema*) (11), Spot Croaker (*Leiostomus xanthurus*) (11), Rainwater Killifish (*Lucania parva*) (1), Dwarf Herring (*Jenkinsia lamprotaenia*) (1), Striped Killifish (*Fundulus majalis*) (3).

Collectors: Class

3/19/2014

Tidal Ditch

30.27206 N, 88.08156 W

Mobile Alabama

Habitat: Tidal Ditch

Species Collected: Sailfin Molly (*Poecilia latipinna*) (6), Fat Sleeper (*Dormitator maculatus*) (1).

3/20/2014

 Lagoon Park Launch

30.255143N, 87.715166W

Mobile Alabama

Habitat: Park Launch

Species Collected: Pinfish (*Lagodon rhomboids*) (4), Darter Goby (*Ctenogobius boleosoma*) (6), Tidewater Silverside (*Menidia peninsulae*) (1), Bay Anchovy (*Anchoa mitchilli*) (1), Naked Goby (*Gobiosoma boscii*) (4), Black Cheek Tongue Fish (*Symphurus plagiusa*) (1).

Collectors: Class

3/20/2014

Causeway

30.322711 N, 88.135942 W

Mobile Alabama

Habitat: Causeway

Species Collected: Southern Flounder (*Paralichthys lethostigma*) (1), Striped Mullet (*Mugil cephalus*) (1), Broad Flounder (*Paralichthys squamilentus*) (1).

Collectors: Class

3/20/2014

Tidal Ditch

30.27206 N, 88.08156 W

Mobile Alabama

Habitat: Tidal Ditch

Species Collected: Mosquito Fish (*Gambusia affinis*) (1).

3/20/2014

Billy Goat Ramp

30.27206 N, 88.08156 W

Mobile Alabama

Habitat: Saltwater Bay

Species Collected: Spanish Mackerel (head) (*Scomberomorus maculatus*) (1-Picture).

Collectors: Class

3/20/2014

Campsite Beach

30.27206 N, 88.08156 W

Mobile Alabama

Habitat: Ocean off of beach

Species Collected: Red-Drum (teeth) (*Sciaenops ocellatus*) (Picture).

4/12/2014

**Center Creek**

Old US 66

N 37°04'18.12 W -94° 06' 35.66

Jasper County, MO

Habitat: Stream

Collectors: Allison Hullinger, Tyler Dubin, Briana Hall, Deann Harreld, Lewis Kellogg, Jared Lytle, Dillon Barton, McKenzie May, Jesse Morland, Thomas Myers, Thomas Westerhaus, Samantha Young, James Triplett

Species Collected:

Scientific Name	Common Name	#	Location
<i>Luxilus cardinalis</i>	(Cardinal Shiner)	(13)	Teaching Collection
<i>Lepomis macrochirus</i>	(Bluegill)	(1)	Teaching Collection
<i>Etheostoma flabellare</i>	(Fantail Darter)	(3)	Teaching Collection
<i>Etheostoma punctulatum</i>	(Stippled Darter)	(10)	Teaching Collection
<i>Noturus exilis</i>	(Slender Madtom)	(5)	Teaching Collection
<i>Etheostoma microperca</i>	(Least Darter)	(1)	Released

<i>Etheostoma cragini</i>	(Arkansas Darter)	(1)	Released
<i>Campostoma anomalum</i>	(Central Stoneroller)	(6)	Teaching Collection
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(8)	Teaching Collection
<i>Hypentelium nigricans</i>	(Northern Hogsucker)	(2)	Teaching Collection
<i>Cottos carolinae</i>	(Banded Sculpin)	(1)	Teaching Collection
<i>Morone chrysops</i>	(White Bass)	(1)	Dead when found
<i>Notropis nubilus</i>	(Ozark Minnow)	(2)	Teaching Collection
<i>Nocomis asper</i>	(Red Spot Chub)	(1)	Released
<i>Lepomis cyanellus</i>	(Green Sunfish)	(1)	Teaching Collection
<i>Notropis percobromus</i>	(Carmine Shiner)	(4)	Teaching Collection

**James River**

Off MO 125

N 36.80720, W -93.46265

Stone County, MO

Habitat: River

Collectors: Allison Hullinger, Tyler Dubin, Briana Hall, Deann Harreld, Lewis Kellogg, Jared Lytle, Dillon Barton, McKenzie May, Jesse Morland, Thomas Myers, Thomas Westerhaus, Samantha Young, James Triplett

**Species Collected**

<b>Scientific Name</b>	<b>Common Name</b>	<b>#</b>	<b>Location</b>
<i>Luxilus pilsbryi</i>	(Duskystripe Shiner)	(3)	Teaching Collection
<i>Fundulus olivaceus</i>	(Blackspotted Topminnow)	(5)	Teaching Collection
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(5)	Teaching Collection
<i>Etheostoma caeruleum</i>	(Rainbow Darter)	(5)	Teaching Collection
<i>Campostoma oligolepis</i>	(Large Scale Stoneroller)	(2)	Teaching Collection
<i>Campostoma pullum</i>	(Central Stoneroller)	(2)	Teaching Collection
<i>Percina caprodes</i>	(Logperch)	(1)	Teaching Collection
<i>Noturus albater</i>	(Ozark Madtom)	(3)	Teaching Collection



<i>Fundulus catenatus</i>	(Northern Studfish)	(2)	Teaching Collection
<i>Etheostoma zonale</i>	(Banded Darter)	(2)	Teaching Collection
<i>Phoxinus erythrogaster</i>	(Southern Red Bellied Dace)	(1)	Teaching Collection
<i>Notropis nubilus</i>	(Ozark Minnow)	(3)	Teaching Collection
<i>Luxilus cornutus</i>	(Striped Shiner)	(2)	Teaching Collection

**Beaver Creek**

Kissee Mills, MO

N 36.67333, W -93.02072

Taney County, MO

Habitat: Stream

Collectors: Allison Hullinger, Tyler Dubin, Briana Hall, Deann Harreld, Lewis Kellogg, Jared Lytle, Dillon Barton, McKenzie May, Jesse Morland, Thomas Myers, Thomas Westerhaus, Samantha Young, James Triplett

**Species Collected**

<b>Scientific Name</b>	<b>Common Name</b>	<b>#</b>	<b>Location</b>
<i>Micropterus salmoides</i>	(Large Mouth Bass)	(1)	Teaching Collection
<i>Percina caprodes</i>	(Logperch)	(4)	Teaching Collection
<i>Lepomis macrochirus</i>	(Bluegill)	(2)	Teaching Collection
<i>Fundulus catenatus</i>	(Northern Studfish)	(4)	Teaching Collection
<i>Lepomis megalotis</i>	(Longear Sunfish)	(6)	Teaching Collection
<i>Hybopsis dissimilis</i>	(Streamline Chub)	(1)	Teaching Collection
<i>Fundulus olivaceus</i>	(Black Spotted Topminnow)	(2)	Teaching Collection
<i>Campostoma pullum</i>	(Central Stoneroller)	(1)	Teaching Collection
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(2)	Teaching Collection
<i>Notropis boops</i>	(Bigeye Shiner)	(1)	Teaching Collection
<i>Cyprinella galactura</i>	(Whitetail Shiner)	(3)	Teaching Collection
<i>Notropis anogenus</i>	(Big-eye Chub)	(1)	Teaching Collection
<i>Notropis nubilus</i>	(Ozark Minnow)	(1)	Teaching Collection

**White River**

Sunburst Canoe Ranch

N 36.65482, W -92.22122

Ozark County, MO

Habitat: River

Collectors: Allison Hullinger, Tyler Dubin, Briana Hall, Deann Harreld, Lewis Kellogg, Jared Lytle, Dillon Barton, McKenzie May, Jesse Morland, Thomas Myers, Thomas Westerhaus, Samantha Young, James Triplett

Species Collected

Scientific Name	Common Name	#	Location
<i>Oncorhynchus mykiss</i>	(Rainbow Trout)	(4)	Teaching Collection
<i>Cottus carolinae</i>	(Banded Sculpin)	(1)	Teaching Collection
<i>Nocomis biguttatus</i>	(Horney Head Chub)	(5)	Released
<i>Etheostoma caeruleum</i>	(Rainbow Darter)	(1)	Teaching Collection
<i>Cottus hypselurus</i>	(Ozark Sculpin)	(6)	Teaching Collection
<i>Phoxinus erythrogaster</i>	(Red Bellied Dace)	(1)	Teaching Collection
<i>Luxilus pilsbryi</i>	(Dusky Stripe Shiner)	(1)	Teaching Collection
<i>Etheostoma punctulatum</i>	(Stippled Darter)	(3)	Teaching Collection

4/13/ 2014

**Black River**

MO 34, Mill Spring

N 36.99232, W -91.01342

Wayne County, MO

Habitat: River

Collectors: Allison Hullinger, Tyler Dubin, Briana Hall, Deann Harreld, Lewis Kellogg, Jared Lytle, Dillon Barton, McKenzie May, Jesse Morland, Thomas Myers, Thomas Westerhaus, Samantha Young, James Triplett

Species Collected:

Scientific Name	Common Name	#	Location
<i>Ammycrypta vivax</i>	(Scaly Sand Darter)	(1)	Released
<i>Gambusia affinis</i>	(Mosquito Fish)	(2)	Teaching Collection
<i>Pimphales notatus</i>	(Blunt Nose Minnow)	(4)	Teaching Collection
<i>Notropis texanus</i>	(Weed Shiner)	(6)	Teaching Collection
<i>Cyprinella venusta</i>	(Black Tail Shiner)	(7)	Teaching Collection
<i>Notropis boops</i>	(Big Eye Shiner)	(5)	Teaching Collection

*Labidesthes sicculus* (Brook Silverside) (3) Teaching Collection

**Current River**

US 60, Van Buren Access

N 36.99232, W – 91.0134

Carter County, MO

Habitat: River

Collectors: Allison Hullinger, Tyler Dubin, Briana Hall, Deann Harreld, Lewis Kellogg, Jared Lytle, Dillon Barton, McKenzie May, Jesse Morland, Thomas Myers, Thomas Westerhaus, Samantha Young, James Triplett

**Species Collected:**

Scientific Name	Common Name	#	Location
Northern Studfish	<i>(Fundulus catenatus)</i>	(1)	Teaching Collection
Ozark Minnow	<i>(Notropis nubilus)</i>	(2)	Teaching Collection
Banded Darter	<i>(Etheostoma zonale)</i>	(1)	Teaching Collection
Bleeding Shiner	<i>(Notropis zonatus)</i>	(9)	Teaching Collection
Orangespotted Sunfish	<i>(Lepomis humilus)</i>	(1)	Teaching Collection
Black Redhorse	<i>(Moxostoma duquesnei)</i>	(1)	Teaching Collection
Rainbow Darter	<i>(Etheostoma careuleum)</i>	(1)	Teaching Collection
Northern Hogsucker	<i>(Hypentelium nigricans)</i>	(2)	Teaching Collection
White Tailed Shiner	<i>(Cyprinella galactura)</i>	(6)	Teaching Collection
Horney Head Chub	<i>(Nocomis biguttatus)</i>	(1)	Teaching Collection

**3. Names and numbers of all species collected on trips present for and split up by states.**

**Alabama:**

Spotted Hake(*Urophycis regius*) (1),  
 Darter Goby (*Ctenogobius boleosoma*) (1),  
 Rough Silverside (*Membras martinica*) (1),  
 Tidewater Silverside (*Menidia peninsulae*) (4),  
 Sailfin Molly (*Poecilia latipinna*) (4),  
 Stripped Mullet (*Mugil cephalus*) (43),  
 White Mullet (*Mugil curema*) (43),  
 Spot Croaker (*Leiostamus xanthurus*) (24),  
 Sheepshead Minnow (*Cyprinodon variegates*) (1),  
 Southern Hake (*Urophycis floridana*) (2),

Blackedge Cuskeel (*Lepophidium pheromystax*) (4),  
Gulf Killifish (*Fundulus grandis*) (1),  
Rough Scad (*Trachurus lathami*) (1),  
Gulf Menhaden (*Brevoortia patronus*) (19),  
Black Fin Tuna (Head) (*Thunnus atlanticus*) (1-Picture),  
Skillet Fish (*Gobiesox strumosus*) (1),  
Darter Goby (*Ctenogobius boleosoma*) (7),  
Bayou Killifish (*Fundulus pulvereus*) (1),  
Diamond Killifish (*Adinia xenica*) (3),  
Tidewater Silverside (*Menidia peninsulae*) (2),  
Gulf Killifish (*Fundulus grandis*) (2),  
Hardhead Catfish (*Ariopsis felis*) (6),  
Gulf Kingfish (*Menticirrhus littoralis*) (1),  
Red Snapper (*Lutjanus campechanus*) (1),  
Blackwing Sea Robin (*Prionotus rubio*) (5),  
Atlantic Cutlassfish (*Trichiurus lepturus*) (1),  
Least Puffer (*Spoeoroides parvus*) (4),  
Star Drum (*Stellifer laceolatus*) (1),  
Sand Sea trout (*Cynoscion arenarius*) (10),  
Gulf Butterfish (*Peprilus triacnathus*) (5),  
Dwarf Sand Perch (*Diplectrum bivittatum*) (8),  
Southern Kingfish (*Mentirrhynchus americanus*) (2),  
Bighead Sea Robin (*Prionotus tribulus*) (1),  
Fringed Flounder (*Etropus crossotus*) (5),  
Spotted Whiff (*Citharichthys macrops*) (2),  
Dusky Flounder (*Syacium papillosum*) (4),  
Sand Perch (*Diplectrum formosum*) (8),  
Bay Anchovy (*Anchoa mitchilli*) (19),  
Long Spine Porgy (*Stenotomus caprinus*) (6),  
Atlantic Stingray (*Dasyatis Sabina*) (1),  
Atlantic Croaker (*Micropogonias undulatus*) (1),  
Hogchoaker (*Trinectes maculatus*) (1),  
Pinfish (*Lagodon rhomboides*) (1),  
Threadfin Shad (*Dorosoma Pretnense*) (8),  
Crested Cusk-eel (*Ophidion josephi*) (1),  
Spotted Hake (*Urophycis regia*) (5),  
Southern Hake (*Merluccius australis*) (3),  
Sheepshead (*Archosargus probatocephalus*) (1- Picture),  
Inshore Lizardfish (*Synodus foetens*) (1-Picture),  
Lined Seahorse (*Hippocampus erectus*) (1-Picture),  
Guaguanche (*Sphyræna guachancho*) (1-Picture),  
Stripped Mullet (*Mugil cephalus*) (9),

Gulf Butterfish (*Peprilus burti*) (3),  
 Gulf Kingfish (*Menticirrhus littoralis*) (1),  
 Bay Anchovy (*Anchoa mitchilli*) (1),  
 Southern Flounder (*Paralichthys lethostigma*) (2),  
 Skillet Fish (*Gobiesox strumosus*) (1),  
 Sheepshead Minnow (*Cyprinodon variegatus*) (10),  
 White Mullet (*Mugil curema*) (11),  
 Spot Croaker (*Leiostomus xanthurus*) (11),  
 Rainwater Killifish (*Lucania parva*) (1),  
 Dwarf Herring (*Jenkinsia lamprotaenia*) (1),  
 Striped Killifish (*Fundulus majalis*) (3),  
 Sailfin Molly (*Poecilia latipinna*) (6),  
 Fat Sleeper (*Dormitator maculatus*) (1)  
 Sheepshead Minnow (*Cyprinodon variegatus*) (10),  
 White Mullet (*Mugil curema*) (11),  
 Spot Croaker (*Leiostomus xanthurus*) (11),  
 Rainwater Killifish (*Lucania parva*) (1),  
 Dwarf Herring (*Jenkinsia lamprotaenia*) (1),  
 Striped Killifish (*Fundulus majalis*) (3),  
 Sailfin Molly (*Poecilia latipinna*) (6),  
 Fat Sleeper (*Dormitator maculatus*) (1),  
 Pinfish (*Lagodon rhomboids*) (4),  
 Darter Goby (*Ctenogobius boleosoma*) (6),  
 Tidewater Silverside (*Menidia peninsulae*) (1),  
 Bay Anchovy (*Anchoa mitchilli*) (1),  
 Naked Goby (*Gobiosoma boscii*) (4),  
 Black Cheek Tongue Fish (*Symphurus plagiatus*) (1),  
 Southern Flounder (*Paralichthys lethostigma*) (1),  
 Striped Mullet (*Mugil cephalus*) (1),  
 Broad Flounder (*Paralichthys squamilentus*) (1),  
 Mosquito Fish (*Gambusia affinis*) (1),  
 Spanish Mackerel (head) (*Scomberomorus maculatus*) (1-Picture),  
 Red-Drum (teeth) (*Sciaenops ocellatus*) (1-Picture).

Missouri:

Scientific Name	Common Name	#
<i>Luxilus cardinalis</i>	(Cardinal Shiner)	(13)
<i>Lepomis macrochirus</i>	(Bluegill)	(1)
<i>Etheostoma flabellare</i>	(Fantail Darter)	(3)

<i>Etheostoma punctulatum</i>	(Stippled Darter)	(10)
<i>Noturus exilis</i>	(Slender Madtom)	(5)
<i>Etheostoma microperca</i>	(Least Darter)	(1)
<i>Etheostoma cragini</i>	(Arkansas Darter)	(1)
<i>Campostoma anomalum</i>	(Central Stoneroller)	(6)
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(8)
<i>Hypentelium nigricans</i>	(Northern Hogsucker)	(2)
<i>Cottos carolinae</i>	(Banded Sculpin)	(1)
<i>Morone chrysops</i>	(White Bass)	(1)
<i>Notropis nubilus</i>	(Ozark Minnow)	(2)
<i>Nocomis asper</i>	(Red Spot Chub)	(1)
<i>Lepomis cyanellus</i>	(Green Sunfish)	(1)
<i>Notropis percobromus</i>	(Carmine Shiner)	(4)
<i>Luxilus pilsbryi</i>	(Duskystripe Shiner)	(3)
<i>Fundulus olivaceus</i>	(Blackspotted Topminnow)	(5)
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(5)
<i>Etheostoma caeruleum</i>	(Rainbow Darter)	(5)
<i>Campostoma oligolepis</i>	(Large Scale Stoneroller)	(2)
<i>Campostoma pullum</i>	(Central Stoneroller)	(2)
<i>Percina caprodes</i>	(Logperch)	(1)
<i>Noturus albater</i>	(Ozark Madtom)	(3)
<i>Fundulus catenatus</i>	(Northern Studfish)	(2)
<i>Etheostoma zonale</i>	(Banded Darter)	(2)
<i>Phoxinus erythrogaster</i>	(Southern Red Bellied Dace)	(1)

<i>Notropis nubilus</i>	(Ozark Minnow)	(3)
<i>Luxilus cornutus</i>	(Striped Shiner)	(2)
<i>Micropterus salmoides</i>	(Large Mouth Bass)	(1)
<i>Percina caprodes</i>	(Logperch)	(4)
<i>Lepomis macrochirus</i>	(Bluegill)	(2)
<i>Fundulus catenatus</i>	(Northern Studfish)	(4)
<i>Lepomis megalotis</i>	(Longear Sunfish)	(6)
<i>Hybopsis dissimilis</i>	(Streamline Chub)	(1)
<i>Fundulus olivaceus</i>	(Black Spotted Topminnow)	(2)
<i>Campostoma pullum</i>	(Central Stoneroller)	(1)
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(2)
<i>Notropis boops</i>	(Bigeye Shiner)	(1)
<i>Cyprinella galactura</i>	(Whitetail Shiner)	(3)
<i>Notropis amblops</i>	(Big-eye Chub)	(1)
<i>Notropis nubilus</i>	(Ozark Minnow)	(1)
<i>Oncorhynchus mykiss</i>	(Rainbow Trout)	(4)
<i>Cottus carolinae</i>	(Banded Sculpin)	(1)
<i>Nocomis biguttatus</i>	(Horney Head Chub)	(5)
<i>Etheostoma caeruleum</i>	(Rainbow Darter)	(1)
<i>Cottus hypselurus</i>	(Ozark Sculpin)	(6)
<i>Phoxinus erythrogaster</i>	(Red Bellied Dace)	(1)

<i>Luxilus pilsbryi</i>	(Dusky Stripe Shiner)	(1)
<i>Etheostoma punctulatum</i>	(Stippled Darter)	(3)
<i>Ammocrypta vivax</i>	(Scaly Sand Darter)	(1)
<i>Gambusia affinis</i>	(Mosquito Fish)	(2)
<i>Pimphales notatus</i>	(Blunt Nose Minnow)	(4)
<i>Notropis texanus</i>	(Weed Shiner)	(6)
<i>Cyprinella venusta</i>	(Black Tail Shiner)	(7)
<i>Notropis boops</i>	(Big Eye Shiner)	(5)
<i>Labidesthes sicculus</i>	(Brook Silverside)	(3)
<i>Northern Studfish</i>	(Fundulus catenatus)	(1)
<i>Ozark Minnow</i>	(Notropis nubilus)	(2)
<i>Banded Darter</i>	(Etheostoma zonale)	(1)
<i>Bleeding Shiner</i>	(Notropis zonatus)	(9)
<i>Orangespotted Sunfish</i>	(Lepomis humilus)	(1)
<i>Black Redhorse</i>	(Moxostoma duquesnei)	(1)
<i>Rainbow Darter</i>	(Etheostoma careuleum)	(1)
<i>Northern Hogsucker</i>	(Hypentelium nigricans)	(2)
<i>White Tailed Shiner</i>	(Cyprinella galactura)	(6)
<i>Horney Head Chub</i>	(Nocomis biguttatus)	(1)





Center Creek  
Old US 66  
N 37°04'18.12 W -94°06'35.66  
Jasper County, MO  
*Morone chrysops*  
White Bass

May 17



Center Creek  
Old US 66  
N 37°04'18.12 W -94°06'35.66  
Jasper County, MO  
*Etheostoma microperca*  
Least Darter



Black River  
MO 34, Mill Spring  
N 36.99232, W -91.01342  
Wayne County, MO  
*Ammocrypta vivax*  
Scaly Sand Darter



Center Creek  
Old US 66  
N 37°04'18.12 W -94°06'35.66  
Jasper County, MO  
*Nocomis asper*  
Red Spot Chub



**STATE OF KANSAS**  
**Scientific, Education, or Exhibition Wildlife Permit**  
PERMIT EXPIRES: December 31, 2014

(Collecting or Salvage)

Authority K.S.A. 32-952 & K.A.R. 115-18-3

Permit No. SC-108-2014

Issued Apr 11, 2014

Permittee: James Triplett

Subpermittee(s): located on reverse side of permit

Affiliation: Biology Department - Pittsburg State University

Address: 1034 E. 520th Ave

City Pittsburg State KS Zip Code 66762

Phone Number 620-235-9466

E-mail: jtriplett@pittstate.edu

Federal Permit #

**PERMIT CONDITIONS**

List of Species to be collected:

Fish (excluding threatened, endangered, and SINC species and federally listed species)

Number of specimens to be removed: > 50

Counties to be covered by activity: (Only allowed in those listed) statewide

Anticipated dates of activity January 2014 - December 2014

Collecting Purpose museum collection, exhibition/education

Collecting Method hand, net, trap, seine, electro-fish

Specimen Storage: Pittsburg State University

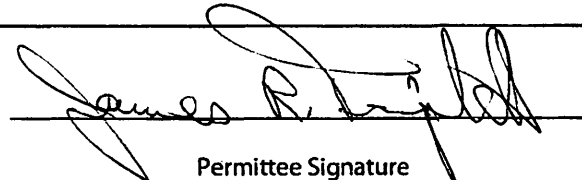
**This permit must be in possession while conducting the above activity.**

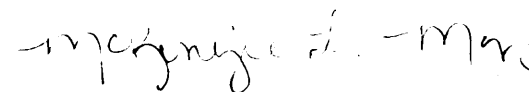
The permit holder must notify the KDWPT Regional Law Enforcement Supervisor prior to conducting activity in the counties listed above. See map for contact information.

Did not collect in Kansas

Permission to enter any lands, either public or private, to conduct permitted activity must be obtained from the owner or manager before entry. Collecting specimens on KS Dept of Wildlife, Parks & Tourism (KDWPT) properties must first obtain permission from local Public Land Manager. Permission can be obtained by writing to the address below or calling KDWPT Ecological Services Section at (620) 672-5911.

Subpermittee(s): Only the permittee and subpermittee(s) may collect. If the permittee is affiliated with an education institution, students may collect for the permittee while in the company of the permittee. Specimens collected by such students must be placed in the possession of the permittee at the collection site, for housing of the specimen at the place(s) listed on the permit. The permittee or subpermittee(s) may not acquire specimens originating in the wild from other permission (including other holders of scientific, education, or exhibition wildlife permits), without permission from the Kansas Dept of Wildlife & Parks.

  
Permittee Signature





Kansas Dept of Wildlife, Parks & Tourism  
Ecological Services Section  
512 SE 25th Ave  
Pratt KS 67124

## Sub-permittees for permit SC-108-2014

Alessa, Balsan

Barton, Dillon

Dubin, Tyle

Hall, Briana

Harreld, Deann

Hullinger, Allison

Kellogg, Lewis

Lytle, Jared

May, McKinzie

Morland, Jesse

Myers, John

Reynold, Stephanie

Vanoverschelde, Logan

Weilert, Valerie

Westerhaus, Thomas

Young, Samantha