

Ichthyology Notebook

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Instructor: Dr. James Triplett

5/10/10

Phylogenetic listing of species
103 Species Listed

93 OK

Order: Acipenseriformes

Family: Polyodontidae
Polyodon Spathula

Paddlefish

MO. Pic

good job
✓

Order: Lepisosteiformes

Family: Lepisosteus
Lepisosteus osseus

Longnose Gar

KS. Pic. C. Adams NB

Order: Albuliformes

Family: Albulidae
Albula Vulpes

Bonefish(larva)

TX.

Order: Anguilliformes

Family: Ophichthidae
Ophichthus gomesii

Shrimp eel

TX.

Order: Clupeiformes

Family: Engraulidae
Anchoa mitchilli
Anchoa hepsetus

Bay anchovy
Striped anchovy

TX.

TX.

Family: Clupeidae
Brevoortia gunteri
Dorosoma petenense
Dorosoma cepedianum

Finescale Menhaden
Threadfin Shad
Gizzard Shad

(?)

Order: Cypriniformes

Family: Cyprinidae

Campostoma anomalum

Central Stoneroller

KS. Stockton IC2

Campostoma oligolepis

Large Scaled Stoneroller

MO.

Cyprinodon variegates

Sheepshead Minnow

TX.

Luxilus Cardinalis

Cardinal Shiner

MO.

Luxilus zonatus

Bleeding Shiner

MO.

Nocomis asper

Redspot Chub

MO. Pic

Notropis nubilus

Ozark Minnow

MO.

Notropis rubellus

Rosyface Shiner

MO.

Phoxinus erthrogaster

S. Redbelly Dace

MO. C.Adams Jar 1

Pimephales notatus

Bluntnose Minnow

MO. C. Adams Jar 1

Semotilus atromaculatus

Creek Chub

KS. C. Adams Jar 1

Cyprinella venusta

Blacktail Shiner

MO.

Notropis heterolepis

Blacknose Shiner

MO.

Cyprinella lutrensis

Red Shiner

MO.

Extrarius aestivalis

Speckled Chub

TX.

Pimephales promelas

Fathead minnow

MO.

wrong order
+ 27 order

<i>Opsopoeodus emiliae emiliae</i>	Pugnose Minnow	TX.
<i>Luxilus pilsbryi</i>	Dusky Strip Shiner	MO.

Family: Catostomidae		
<i>Carpoides carpio</i>	River Carpsucker	TX.
<i>Catostomus commersonii</i>	White Sucker	KS. C. Adams Jar 1

Order: Siluriformes

Family: Ictaluridae

<i>Ameiurus melas</i>	Black Bullhead	KS. Stockton IC2
<i>Ameiurus natalis</i>	Yellow Bullhead	KS. C. Adams Jar 1
<i>Ictalurus furcatus</i>	Blue Catfish	TX.
<i>Ictalurus punctatus</i>	Channel Catfish	TX. Stockton IC2
<i>Noturus exilis</i>	Slender Madtom	MO.
<i>Noturus nocturnes</i>	Freckled Madtom	MO.

Family: Ariidae		
<i>Ariopsis felis</i>	Hardhead Catfish	TX.
<i>Bagre marinus</i>	Gaff-Top Sail Catfish	TX.

Order: Salmoniformes

Family: Salmonidae		
<i>Oncorhynchus mykiss</i>	Rainbow Trout	MO. Stockton IC2

Order: Esociformes

Family: Esocidae		
<i>Esox niger</i>	Chain Pickerel	MO.

Order: Gadiformes

Family: Batrachoididae		
<i>Opsanus beta</i>	Gulf Toadfish	TX. Pic

Order: Atheriniformes

Family: Atherinidae		
<i>Labidesthes sicculus</i>	Brook Silverside	TX. Stockton IC2
<i>Membras martinica</i>	Rough Silverside	TX.
<i>Menidia beryllina</i>	Inland Silverside	TX.
<i>Menidia peninsulae</i>	Tidewater Silverside	TX.

Order: Cyprinodontiformes

Family: Fundulidae

<i>Fundulis majalis</i>	Striped Killifish	TX.
<i>Fundulis grandis</i>	Gulf Killifish	TX.
<i>Fundulus notatus</i>	Blackstriped topminnow	MO.
<i>Fundulus catenatus</i>	Northern Studfish	MO.
<i>Fundulus olivaceus</i>	Blackspotted topminnow	MO.

Family: Poeciliidae

<i>Gambusia affinis</i>	Mosquitofish	TX.
<i>Poecilia latipinna</i>	Sailfin Molly	TX.
<i>Gambusia geiseri</i>	Zargespring Gambusia	TX.

Order: Corpanioformes

Family: Cottidae

<i>Cottus bardi</i>	Mottled Sculpin	MO.
<i>Cottus carolinae</i>	Banded Sculpin	MO. Stockton IC2

Order: Syngnathiformes

Family: Syngnathidae

<i>Syngnathus scovelli</i>	Gulf Pipefish	TX.
<i>Syngnathus fuscus</i>	Northern Pipefish	TX.

Order: Perciformes

Family: Moronidae

<i>Morone chrysops</i>	White Bass	KS. Stockton IC2
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Family: Centrarchidae

<i>Ambloplites ariommus</i>	Shadow Bass	MO.
<i>Micropterus punctulatus</i>	Spotted Bass	TX.
<i>Lepomis punctatus</i>	Spotted Sunfish	TX.
<i>Lepomis cyanellus</i>	Green Sunfish	MO.
<i>Lepomis gulosus</i>	Warmouth	MO.
<i>Lepomis macrochirus</i>	Bluegill	MO.
<i>Lepomis megalotis</i>	Longear Sunfish	MO.
<i>Micropterus dolomieu</i>	Smallmouth Bass	MO.
<i>Micropterus salmoides</i>	Largemouth Bass	KS. Stockton IC2
<i>Pomoxi annularis</i>	White Crappie	KS. C. Adams Jar 1
<i>Pomoxi nigromaculatus</i>	Black Crappie	KS. Stockton IC2

Family: Percidae

<i>Etheostoma cragini</i>	Arkansas Darter	MO. Pic
<i>Etheostoma flabellare</i>	Fantail Darter	MO.

<i>Etheostoma juliae</i>	Yoke Darter	MO.
<i>Etheostoma microperca</i>	Least Darter	MO. ^{pic}
<i>Etheostoma punctulatum</i>	Stippled Darter	MO.
<i>Etheostoma spectabile</i>	Orangethroated Darter	MO.
<i>Etheostoma zonale</i>	Banded Darter	MO.
<i>Percina maculate</i>	Blackside Darter	MO.
<i>Percina phoxocephala</i>	Slenderhead Darter	KS. C. Adams Jar 1
<i>Etheostoma caeruleum</i>	Rainbow Darter	MO.
<i>Etheostoma stigmaeum</i>	Speckled Darter	MO.
<i>Etheostoma nigrum</i>	Johnny Darter	MO.
<i>Etheostoma blennioides</i>	Greenside Darter	MO.
<i>Percina caprodes</i>	Log perch	MO. Stockton IC2

Family: Aparidae

<i>Lagodon rhomboids</i>	Pinfish	TX.
<i>Archosargus probatocephalus</i>	Sheepshead	TX.

Family: Sciaenidae

<i>Sciaenops ocellatus</i>	Red Drum	TX.
<i>Stellifer lanceolatus</i>	Star Drum	TX.
<i>Umbrina coroides</i>	Sand Drum	TX.
<i>Cynoscion nebulosus</i>	Spotted Seatrout	TX.
<i>Menticirrhus americanus</i>	Southern Kingfish	TX.

Suborder: Gobioidae

Family: Gobiidae

<i>Bathygobius soporator</i>	Frillfin Goby	TX.
<i>Gobiosoma bosc</i>	Naked Goby	TX.
<i>Coryphopterus punctipectophorus</i>	Spotted Goby	TX.
<i>Ctenogobius boleosoma</i>	Darter Goby	TX.

Family: Gerreidae

<i>Diapterus rhombeus</i>	Silver Perch	TX.
<i>Gerres cinereus</i>	Yellowfin Mojarra	TX.

Suborder: Mugiloidei

Family Mugilidae

<i>Mugil curema</i>	White Mullet	TX.
<i>Mugil cephalus</i>	Striped Mullet	TX.

Order: Pleuronectiformes

Family: Achiropsettidae

<i>Citharichthys spilopterus</i>	Bay-Whiff	TX.
<i>Paralichthys squamilentus</i>	Broad flounder	TX.

Paralichthys albigutta

Gulf Flounder

TX.

Family: Cynoglossidae

Symphurus civitatum

Offshore Tonguefish

TX.

Order: Tetradontiformes

Family: Tetraodontidae

Sphoeroides parvus

Least puffer

TX.

Chronological Listing of Sites

Service Lake In 3

Site 1

3/5/10

Labette County, KS

Location: 6 miles southeast of Parsons

Habitat: Underneath concrete dock

N37°18'

W95°05'

<u>Common Name</u>	<u>Species Name</u>	<u>#</u>
White Bass	<i>Morone chrysops</i>	5

Collectors: J. Stockton, L. Martin, C. Adams

Site 2

3/6/10

Montgomery County, KS

Location: 12 miles east of Independence off of highway 169

Habitat: shallow muddy farm pond

37°14' 56.00"N

95° 53' 29.18"W

<u>Common Name</u>	<u>Species Name</u>	<u>#</u>
Black Crappie	<i>Pomoxis nigromaculatus</i>	1
Largemouth Bass	<i>Micropterus salmoides</i>	1
Black Bullhead	<i>Ameiurus melas</i>	1

Collectors: J. Stockton, L. Martin, C. Adams

Site 3

3/14/10

Little Brazos

Location: 11302 Texas 21, Bryan, TX, United States

Habitat: Swift moving rocky, murky river

30°38'28.51" N

96°31'14.66"W

Common Name	Species Name	#
Blue Catfish	<i>Ictalurus furcatus</i>	1
Brook Silverside	<i>Labidestags sicculus</i>	3
River Carpsucker	<i>Carpionodes carpio</i>	1
Threadfin Shad	<i>Dorosoma petenense</i>	2
Channel Catfish	<i>Ictalurus punctatus</i>	3
Gizzard Shad	<i>Dorosoma cepedianum</i>	3
Spotted Bass	<i>Micropterus punctulatus</i>	3
Bluegill	<i>Lepomis macrochirus</i>	1
Spotted Sunfish	<i>Lepomis punctatus</i>	1
Blacknose Shiner	<i>Motropus heterolepes</i>	1
Mosquitofish	<i>Gambusia affinis</i>	1
Red Shiner	<i>Cyprinella spiloptera</i>	3
Inland Silverside	<i>Menidia punctatus</i>	2
Zargespring Gambusia	<i>Gambusia geiseri</i>	3
Creek Chub	<i>Semotilus atromaculatus</i>	5
Speckled Chub	<i>Extrarius aestivalis</i>	1
Silverband Shiner	<i>Notropus shumardi</i>	2
Pugnose Minnow	<i>Opsopoeodus emiliae emiliae</i>	1

Collectors: Ichthyology Class

Site 4

3/15/10

Port Lavaca

Location: Farm to Market Road 616, Lolita, TX, United States

Habitat: Smooth, shell beach

28°49'56.34" N

96°34'38.71"W

Common Name	Species Name	#
Sailfin Molly	<i>Poecilia latipinna</i>	8
Pinfish	<i>Lagodon rhomboides</i>	2
Silver Perch	<i>Bairdiella chrysoura</i>	5
Bay Anchovy	<i>Anchoa mitchilli</i>	8
Gulf Pipefish	<i>Syngnathus scovelli</i>	1
Least Puffer	<i>Sphoeroides parvus</i>	1
Stripped Mullet	<i>Mugil cephalus</i>	1
Naked goby	<i>Gobiosoma bosc</i>	2
Blacktailed Shiner	<i>Notropis venustus</i>	11
Frillfin goby	<i>Bathygobius soporator</i>	1
Shrimp Eel	<i>Ophichthus gomesi</i>	1
Hardhead Catfish	<i>Arius felis</i>	1
Gulf flounder	<i>Paralichthys albigutta</i>	1
Northern Pipefish	<i>Syngnathus fuscus</i>	2
Striped Anchovy	<i>Anchoa hepsetus</i>	1
Striped Killifish	<i>Fundulus majalis</i>	1
Southern Kingfish	<i>Menticirrhus americanus</i>	1
Stardrum	<i>Stellifer lanceolatus</i>	8
Darter Goby	<i>Ctenogobius boleosoma</i>	1
Tidewater Silverside	<i>Menidia peninsulae</i>	1

Collectors: Ichthyology class

Site 5

3/18/10

Boca Chica

Location: Mouth of Rio Grande

Habitat: Brackish water with Sargasm weed, sandy where river meets Gulf

25°59.752' N

97°09.873'W

Common Name	Species Name	#
White Mullet	<i>Mugil curema</i>	1
Finescale Menhaden	<i>Brevoortia gunteri</i>	2
Gafftopsail Catfish	<i>Bagre marinus</i>	2
Rough Silverside	<i>Membras martinica</i>	1
Sheepshead	<i>Archosargus probatocephalus</i>	1

Collectors: Ichthyology class

Site 6

3/18/10

South Padre Island

Location: Beach just outside of town

Habitat: Sandy Beach

26°08.798' N

97°10.744'W

Common Name	Species Name	#
Sheepshead Minnow	<i>Cyprinodon variegates</i>	8
Striped Killifish	<i>Fundulus majalis</i>	2
Pinfish	<i>Lagodon rhomboides</i>	2
Offshore Tonguefish	<i>Synphurus civitatus</i>	2
Stardrum	<i>Stellifer lanceolatus</i>	1
Yellowfin Mojarra	<i>Gerres cinereus</i>	1
Gulf Toadfish	<i>Opsanus beta</i>	1

Collectors: Ichthyology class

Site 7

3/18/10

Cameron county, TX

Location: 37844 Marshall Hutts Road, Rio Hondo, TX 78583

Habitat: Barge

26° 20' 46.07"N

97° 24' 42.43"W

Common Name	Species Name	#
Spotted Seatrout	<i>Cynoscion nebulosus</i>	1
Red Drum	<i>Sciaenops ocellatus</i>	1

Collectors: Ichthyology class

Site 8

4/8/10

Crawford County, KS

Location: 5 miles north of Farlington

Habitat: Stream running out of lake

N37-37.863

W094-48.881

Common Name	Species Name	#
White Crappie	<i>Pomoxis annularis</i>	1
Logperch	<i>Percina caprodes</i>	1
Central Stoneroller	<i>Campostoma anomalum</i>	3
Yellow Bullhead	<i>Ameiurus natalis</i>	1
Mosquitofish	<i>Gambusia affinis</i>	1
creek chub	<i>Semotilus atromaculatus</i>	1

Collectors: J. Stockton, L. Martin, C. Adams, D. Couture

Site 9

4/9/10

Labette County, KS

Location: 5 mile west of Mound valley

Habitat: Shallow rocky creek

N 37 10 45.0

W095 17 44.0

Common Name	Species Name	#
Slenderhead Darter	<i>Percina phoxocephala</i>	1
Orangethroat Darter	<i>Etheostoma spectabile</i>	1
Longnose Gar	<i>Lepisosteus osseus</i>	1

Collectors: J. Stockton, L. Martin, C. Adams

Site 10

4/17/10

Barry County, MO

Location: 10 miles southeast of Cassville

Habitat: Shallow gravel bars

36° 37' 56.12"N

93° 13' 27.69"W

Common Name	Species Name	#
Rainbow trout	<i>Oncorhynchus mykiss</i>	1
Banded sculpin	<i>Cottus carolinae</i>	1
Southern Redbelly Dace	<i>Phoxinus erythrogaster</i>	1

Collectors: J. Stockton, L. Martin, C. Adams

Site 11

5/1/10

Linn County, KS

Location: Mound City

Habitat: Spillway next to bridge

38° 14.071'N

94° 56.594'W

Common Name	Species Name	#
White Sucker	<i>Catostomus commersonii</i>	1

Collectors: J. Stockton, L. Martin, C. Adams

Site 12

4/24/10

Carter County, MO

Location: Current River

Habitat: Swift moving water, Rocky bottom

N36° 59' 32.00

W91°00'53.18

Common Name	Species Name	#
Northern Studfish	<i>Fundulus catenatus</i>	4
Rosyface Shiner	<i>Notropis rubellus</i>	1
Green Sunfish	<i>Lepomis cyanellus</i>	1
Longear Sunfish	<i>Lepomis megalotis</i>	2
Fantail Darter	<i>Etheostoma flabellare</i>	1
Ozark Minnow	<i>Notropis nubilus</i>	2
Chain Pickerel	<i>Esox niger</i>	3
Largescale Stoneroller	<i>Camptostoma oligolepis</i>	1
Banded Darter	<i>Etheostoma zonale</i>	1
Blackside Darter	<i>Percina maculate</i>	1
Smallmouth Bass	<i>Micropterus dolomieu</i>	1
Blackstripe Topminnow	<i>Fundulus notatus</i>	1
Southern Redbelly Dace	<i>Phoxinus erythrogaster</i>	1
Bleeding Shiner	<i>Luxilus zonatus</i>	13
Shadow Bass	<i>Ambloplites ariommus</i>	1
Taillight Shiner	<i>Notropis maculates</i>	1
Redspot Chub	<i>Nocomis asper</i>	1

Collectors: Ichthyology Class

Site 13

4/24/10

Wayne County, MO

Location: Black River, MO 34, Mill Spring

Habitat: Swift moving water, near vegetation

T28N R3E S27

<u>Common Name</u>	<u>Species Name</u>	<u>#</u>
Ozark Minnow	<i>Notropis nubile</i>	1
Largescale Stoneroller	<i>Campostoma oligolepis</i>	4
Orangethroat Darter	<i>Etheostoma spectabile</i>	1
Warmouth	<i>Lepomis gulosus</i>	1
Blackspotted Topminnow	<i>Fundulus olivaceus</i>	6
Rainbow Darter	<i>Etheostoma caeruleum</i>	4

Collectors: Ichthyology Class

Site 14

4/25/10

Ozark County, MO

Location: White River, Sunburst Canoe Ranch

Habitat: Near gravel bars

N36° 39' 19.73

W92° 13' 08.21)

<u>Common Name</u>	<u>Species Name</u>	<u>#</u>
Banded Darter	<i>Etheostoma zonale</i>	7
Rainbow Trout	<i>Oncorhynchus mykiss</i>	3
Freckled Madtom	<i>Noturus nocturnus</i>	1
Orangethroat Darter	<i>Etheostoma spectabile</i>	1
Mottled Sculpin	<i>Cottus bairdii</i>	3
Banded Sculpin	<i>Cottus carolinae</i>	6
Green Sunfish	<i>Lepomis cyanellus</i>	1
Bluegill	<i>Lepomis Macrochirus</i>	1
Greenside Darter	<i>Etheostoma blennioides</i>	1

Collectors: Ichthyology Class

Site 15

4/25/10

Taney County, MO

Location: Beaver Creek, Kisse Mill, MO

Habitat: Clear, swift moving water, rocky bottom

36°40'18.29"N

93°01'25.13" W

Common Name	Species Name	#
Logperch	<i>Percina caprodes</i>	3
Brook Silverside	<i>Lepidosthes sicculus</i>	5
Fathead Minnow	<i>Pimephales promelas</i>	1

Collectors: Ichthyology Class

Site 16

4/25/10

Stone County, MO

Location: James River, MO 125

Habitat: Shallow, clear moving water

T24N R23W S6

Common Name	Species Name	#
Fantail Darter	<i>Etheostoma flabellare</i>	2
Banded Sculpin	<i>Cottus carolinae</i>	1
Bluntnose Minnow	<i>Pimephales notatus</i>	2
Dusky Strip Shiner	<i>Luxilus pilsbryi</i>	1
Bluespotted Sunfish	<i>Enneacathus gloriosus</i>	1
Central Stoneroller	<i>Campostoma anomalum</i>	1
Blackspotted Topminnow	<i>Fundulus olivaceus</i>	3
Orangethroated Darter	<i>Etheostoma spectabile</i>	1
Yoke Darter	<i>Etheostoma juliae</i>	1
Paddlefish	<i>Polyodon spathula</i>	1
Gizzard Shad	<i>Dorosoma cepedianum</i>	1
Smallmouth Bass	<i>Micropterus dolomieu</i>	1

Collectors: Ichthyology Class

Site 17

4/25/10

Jasper County, MO

Location: Center creek

Habitat: Shallow, rocky, clear

N37°04'18.12"

W94° 06' 35.66"

Common Name	Species Name	#
Cardinal Shiner	<i>Luxilus Cardinalis</i>	1
Bluegill	<i>Lepomis Macrochirus</i>	3
Mosquitofish	<i>Gambusia affinis</i>	1
Speckled Darter	<i>Etheostoma stigmaeum</i>	2
Fantail Darter	<i>Etheostoma flabellare</i>	1
Johnny Darter	<i>Etheostoma nigrum</i>	1
Stippled Darter	<i>Etheostoma punctulatum</i>	1
Slender Madtom	<i>Noturus exilis</i>	1
Least Darter	<i>Etheostoma microperca</i>	4
Arkansas Darter	<i>Etheostoma cragini</i>	2
Smallmouth Bass	<i>Micropterus dolomieu</i>	1
Green Sunfish	<i>Lepomis cyanellus</i>	1
Orangethroated darter	<i>Etheostoma spectabile</i>	1

Collectors: Ichthyology Class

Names and Numbers By State

Kansas

<u>Common Name</u>	<u>Scientific Name</u>	<u>Site</u>
Black Crappie	<i>Pomoxi nigromaculatus</i>	2
White Crappie	<i>Pomoxis annularis</i>	8
Longnose Gar	<i>Lepisosteus osseus</i>	9
Largemouth Bass	<i>Micropterus salmoides</i>	2
White Bass	<i>Morone chrysops</i>	1
Central Stoneroller	<i>Campostoma anomalum</i>	8
Yellow Bullhead	<i>Ameiurus natalis</i>	8
Black Bullhead	<i>Ameiurus melas</i>	2
creek chub	<i>Semotilus atromaculatus</i>	8
Slenderhead Darter	<i>Percina phoxocephala</i>	9
Orangethroat Darter	<i>Etheostoma spectabile</i>	9
White Sucker	<i>Catostomus commersonii</i>	11

Texas

<u>Common Name</u>	<u>Scientific Name</u>	<u>Site</u>
Hardhead Catfish	<i>Ariopsis felis</i>	4
Gulf Toadfish	<i>Opsanus beta</i>	6
Sheepshead Minnow	<i>Cyprinodon variegatus</i>	4
Sailfin Molly	<i>Poecilia latipinna</i>	4
Striped Killifish	<i>Fundulus majalis</i>	6
Pinfish	<i>Lagodon rhomboides</i>	6
Spotted Seatrout	<i>Cynoscion nebulosus</i>	7
Blue Catfish	<i>Ictalurus furcatus</i>	3
Silver Perch	<i>Diapterus rhombeus</i>	4
White Mullet	<i>Mugil curema</i>	5
Brook Silverside	<i>Labidesthes sicculus</i>	3
River Carpsucker	<i>Carpionodes carpio</i>	3
Finescale Menhaden	<i>Brevoortia gunteri</i>	5
OffShore Tongue fish	<i>Symphurus civitatum</i>	6
Shrimp Eel	<i>Ophichthus gomesii</i>	4
Threadfin Shad	<i>Dorosoma petenense</i>	3
Channel Catfish	<i>Ictalurus punctatus</i>	3
Gizzard Shad	<i>Dorosoma cepedianum</i>	3
Bay Anchovy	<i>Anchoa mitchilli</i>	4
Blue Gill	<i>Lepomis macrochirus</i>	3
Star Drum	<i>Stellifer lanceolatus</i>	6
Least Puffer	<i>Sphoeroides parvus</i>	4
Gulf Pipefish	<i>Syngnathus scovelli</i>	4
Gaff-TopSail Catfish	<i>Bagre marinus</i>	5
Striped Mullet	<i>Mugil cephalus</i>	4
Rough Silverside	<i>Membras martinica</i>	3
Spotted Bass	<i>Micropterus punctulatus</i>	3
Naked Goby	<i>Gobiosoma bosc</i>	4
Blacktail Shiner	<i>Cyprinella venusta</i>	4

Frillfin Goby	<i>Bathygobius soporator</i>	4
Yellowfin Mojarra	<i>Gerres cinereus</i>	6
Sheepshead	<i>Archosargus probatocephalus</i>	5
Gulf Killifish	<i>Fundulus grandis</i>	6
Bay Whiff	<i>Citharichthys spilopterus</i>	4
Mosquito Fish	<i>Gambusia affinis</i>	3
Broad Flounder	<i>Paralichthys squamilentus</i>	6
Bay Anchovy	<i>Anchoa mitchilli</i>	6
Spotted Goby	<i>Coryphopterus punctipectophorus</i>	6
Inland Silverside	<i>Menidia beryllina</i>	4
Bonefish	<i>Albula vulpes</i>	6
Gulf Flounder	<i>Paralichthys albigutta</i>	6
Sand Drum	<i>Umbrina coroides</i>	5
Striped Anchovy	<i>Anchoa hepsetus</i>	4
Darter Goby	<i>Ctenogobius boleosoma</i>	5
Pugnose Minnow	<i>Opsopoeodus emiliae emiliae</i>	3
Spotted Sunfish	<i>Lepomis punctatus</i>	3
Silverband Shiner	<i>Notropis shumardi</i>	3
Blacknose Shiner	<i>Notropis heterolepis</i>	3
Clear Creek Gambusia	<i>Gambusia heterochir</i>	3
Red Shiner	<i>Cyprinella lutrensis</i>	3
Northern Pipefish	<i>Syngnathus fuscus</i>	4
Red Drum	<i>Sciaenops ocellatus</i>	7
Southern Kingfish	<i>Menticirrhus americanus</i>	4
Tidewater Silverside	<i>Menidia peninsulae</i>	4

Missouri

Common Name	Scientific Name	Site
Northern Studfish	<i>Fundulus catenatus</i>	12
Rosyface Shiner	<i>Notropis rubellus</i>	12
Green Sunfish	<i>Lepomis cyanellus</i>	12
Longear Sunfish	<i>Lepomis megalotis</i>	12
Fantail Darter	<i>Etheostoma flabellare</i>	12
Ozark Minnow	<i>Notropis nubilus</i>	12
Chain Pickerel	<i>Esox niger</i>	12
Largescale Stoneroller	<i>Campostoma oligolepis</i>	12
Banded Darter	<i>Etheostoma zonale</i>	12
Blackside Darter	<i>Percina maculate</i>	12
Smallmouth Bass	<i>Micropterus dolomieu</i>	12
Blackstripe Topminnow	<i>Fundulus notatus</i>	12
Southern Redbelly Dace	<i>Phoxinus erythrogaster</i>	10
Bleeding Shiner	<i>Luxilus zonatus</i>	12
Shadow Bass	<i>Ambloplites ariommus</i>	12
Taillight Shiner	<i>Notropis maculates</i>	12

Redspot Chub	<i>Nocomis asper</i>	12
Orangethroat Darter	<i>Etheostoma spectabile</i>	13
Warmouth	<i>Lepomis gulosus</i>	13
Blackspotted Topminnow	<i>Fundulus olivaceus</i>	13
Rainbow Darter	<i>Etheostoma caeruleum</i>	13
Rainbow Trout	<i>Oncorhynchus mykiss</i>	14
Freckled Madtom	<i>Noturus nocturnus</i>	14
Mottled Sculpin	<i>Cottus bairdii</i>	14
Banded Sculpin	<i>Cottus carolinae</i>	10
Bluegill	<i>Lepomis Macrochirus</i>	14
Logperch	<i>Percina caprodes</i>	15
Brook Silverside	<i>Lepidesthes sicculus</i>	15
Fathead Minnow	<i>Pimephales promelas</i>	15
Bluntnose Minnow	<i>Pimephales notatus</i>	16
Dusky Strip Shiner	<i>Luxilus pilsbryi</i>	16
Central Stoneroller	<i>Campostoma anomalum</i>	16
Yoke Darter	<i>Etheostoma juliae</i>	16
Paddlefish	<i>Polyodon spathula</i>	16
Gizzard Shad	<i>Dorosoma cepedianum</i>	16
Cardinal Shiner	<i>Luxilus Cardinalis</i>	17
Mosquitofish	<i>Gambusia affinis</i>	17
Speckled Darter	<i>Etheostoma stigmaeum</i>	17
Johnny Darter	<i>Etheostoma nigrum</i>	17
Stippled Darter	<i>Etheostoma punctulatum</i>	17
Slender Madtom	<i>Noturus exilis</i>	17
Least Darter	<i>Etheostoma microperca</i>	17
Arkansas Darter	<i>Etheostoma cragini</i>	17
Greenside Darter	<i>Etheostoma blennioides</i>	14

Vacoh

COLLECTION GRADE SHEET
 ICHTHYOLOGY 2010

	Number	Points
Notebook (50 pts)	50 - 6 =	<u>44</u>

Spring Break - Texas	_____	_____
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Missouri Trip	30 - 10 coll.	14
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Personal Collection	5 - 10 not on other trips	_____
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Total Collection	<u>934</u> = <u>372</u> - 20 = <u>352</u>	
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Total Points	<u>396</u>	
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1KS col. rpt.

Comments:

Black bullhead (no legal description)	-1/2
large mouth bass	-1/2
rainbow trout	-1/2
central sh.	-1/2
white crappie	-1/2
white bass	-1/2
log perch	-1/2
Banded sculpin misidentified (mottled sculpin)	-1/2

Had source

NO location of specimen in phylo. listing, had collection site instead

misplaced

(-2) →

**Gulf Ecology Journal
Spring Break 2010
Jacob Stockton**

Day 1 (3/13/2010)

As we drove from Pittsburg to McAlester, the soil stayed fairly rocky. Soil color didn't really change much until we got into Tyler, TX where we spent the night. Throughout the drive there we seemed to be traveling in a large valley with tall pines around the edges. One interesting thing I noticed was the distribution of human activity on the southern landscape. The towns in our part of the country seem to be way more compact, but the further south we travel they seem to be more spread out.

Day 2 (3/14/2010)

So far we have traveled from Tyler, TX to Bryan, TX where we stopped at the super canasta to get lunch which gave us quite an interesting cultural experience. After leaving there we stopped at Little Brazos where we ate lunch and then seined. The species we picked up were not uncommon, but we did however find a carcass and got to see our first webarian apparatus. Note the water was freezing. After leaving there we went to Lavaca river where we found the black tailed shiner, as well as sand instead of mud. Very distinct change in soil types from Little Brazos. We finally set up camp where a few of the trees were just covered with Spanish moss, showered and ate dinner then proceeded to key fish half the night.

Day 3 (3/15/2010)

After leaving Lake Texana, we crossed a bridge and entered into Port Lavaca. After crossing the bridge we could definitely tell we were on the ~~cost~~^{is} as the trees changed from large live oak, immediately to tropical trees, such as the palm tree. The trip through the refuge was very interesting, learned a few things about animals being destructive to areas and how that can promote an area for certain organisms that are adapted to that type of environment, allowing for a large diversity of animals to inhabit the area. Seining outside of Rockport was an experience; the diversity of species is phenomenal. The wind also made things very tricky. When we would drag the seine on shore we would have to be very careful that the wind didn't take it, so we didn't lose all the species we had in the net.

Day 4 (3/16/2010)

The morning was great, finally getting to sit down and have a hot meal at a buffet, without getting rained on or having the wind blow our dishes all over creation. After breakfast we traveled to Corpus Christi and visited the Texas State Aquarium. One interesting thing I saw was the way reefs can be made artificially, by having an old offshore drilling rig in place after the project is done. This provides cover for both predator and prey, making a species rich area for several hundreds of years. Another interesting thing was the otters, and their need for companionship. They play together as well as sleep together. The USS Lexington was extremely large and I would've liked a tour on the WWII carrier. The dolphins were by far the most entertaining. The relationship that they have

Day 6 (3/18/2010)

Boca Chica beach was very interesting, and we got several new species that are going to take hours to key. Being at the mouth of the Rio Grande is definitely something to remember, because we could see Mexico and both sides were taking part in the exact same activities. One thing that was very irritating was the Mexico side was way cleaner than the United States side. South Padre Island has changed a lot in the last four years. The buildings are closer together and the traffic is slower. The people there seemed younger and the sun might be slightly hotter. The new species we got at the beach were interesting, especially the Gulf toadfish. The evenings shrimp dinner was mighty good.

Day 7 & 8 (3/19/2010-3/20/2010)

The last days of the trip were refreshing. We all got a good, nights sleep on Thursday to begin the journey to the last campsite. After a long days drive we finally got in about 9:30. With a storm moving in, we decided to give the drivers space in the van to get some rest after dinner and not take the time to set up camp. after the first two drivers were rested at about 2:30 in the morning, we all got around, loaded our stuff and began the long journey back to Kansas. The roads were dark and wet, with a strong rain to look through. We did however leave just in time to beat the snow storm that awaited us in Pittsburg. When we got back we were all dressed in our coastal clothes with tennis shoes and sandals on. It was very miserable unloading the van in the Kansas cold while it snowed. Once things were unloaded and the left-over food was partitioned out, I was glad to get back to my apartment where a took a quick shower and a much

with their trainer is unexplainable, and it seemed as if they liked all the attention they were getting from the crowd, these are very smart animals. All in all, it turned out to be a nice, easy and dry day; other than the rain.

Day 5 (3/17/2010)

The Laguna Atascosa National Wildlife Refuge was a pleasure. We saw an abundance of most of the species on our birding list, several Orchid Orioles, and learned several interesting facts. It seemed as if Laguna Atascosa is directed more toward the wildlife and their habitat rather than tourism and PR which is what I think makes it a beautiful place. The best part of the day by far was going to Progreso, Mexico. The way of life in that country is very interesting and very cheap for an American. It was not so different from some of our stateside cities, except that it wasn't very clean. I have been to several areas stateside, where people make their living the same way. It definitely brings you out of your comfort zone, when the guns pointed at you aren't wearing red, white and blue. The shops were very interesting, in that a lot of the people there actually made and sold their own product. There was however plenty of places you could enter and buy the same things you can buy in America, but at half the price. Dinner was very bland, I don't think I like Mexican food. I believe I prefer the American twist put on Mexican food; it also didn't sit too well with the old stomach. Coming back through customs was very interesting, got my first non-compliant notice which was very irritating. Three forms of identification are apparently not enough for an American to be allowed back into his country.

needed very long nap in my bed that I had been missing since the day we left.

The trip was very educational and we had a lot of fun and I would definitely do it again if given the chance.

Class Collection photographs

Spotted Sea Trout Cynoscion nebulosus

Red Drum Sciaenops ocellatus

Sheepshead Archosargus probatocephalus

Gulf toadfish Opsanus beta

Redspot Chub Nocomis asper

Paddlefish Polyodon spathula

Pictures are in collections of those who took the pictures