

Ichthyology 533 Field Notebook
Allison Hullinger
Spring 2014

Ichthyology 333 Field Notebook
Allison Hurlinger
Spring 2014

I. Total: 100 Species

| Order: | Location: |
|-------------------------------------|---------------------|
| Myliobatiformes | |
| Family: <i>Dasyatidae</i> | |
| Species: <i>Dasyatis sabina</i> | Teaching Collection |
| Order: Clupeiformes | |
| Family: <i>Clupeidae</i> | |
| Species: <i>Brevoortia patronus</i> | Teaching Collection |
| <i>Dorosoma petenense</i> | Teaching Collection |
| <i>Jenkinsia lamprotaenia</i> | Teaching Collection |
| Family: <i>Engraulidae</i> | |
| Species: <i>Anchoa mitchilli</i> | Teaching Collection |
| Order: Cypriniformes | |
| Family: <i>Catostomidae</i> | |
| Species: <i>Moxostoma duquesnei</i> | Teaching Collection |
| <i>Hypentelium nigricans</i> | Teaching Collection |
| Family: <i>Cyprinidae</i> | |
| Species: <i>Campostoma anomalum</i> | Teaching Collection |
| <i>Campostoma oligolepis</i> | Teaching Collection |
| <i>Cyprinella galactura</i> | Teaching Collection |
| <i>Cyprinella venusta</i> | Teaching Collection |
| <i>Hybopsis dissimilis</i> | Teaching Collection |
| <i>Luxilus cardinalis</i> | Teaching Collection |
| <i>Luxilus cornutus</i> | Teaching Collection |
| <i>Luxilus pilsbryi</i> | Teaching Collection |
| <i>Nocomis asper</i> | Picture |
| <i>Nocomis biguttatus</i> | Picture |
| <i>Notropis amblops</i> | Teaching Collection |
| <i>Notropis boops</i> | Teaching Collection |
| <i>Notropis nubilus</i> | Teaching Collection |
| <i>Notropis percobromus</i> | Teaching Collection |
| <i>Notropis zonatus</i> | Teaching Collection |
| <i>Phoxinus erythrogaster</i> | Teaching Collection |
| <i>Pimphales notatus</i> | Teaching Collection |
| Order: Siluriformes | |
| Family: <i>Ictaluridae</i> | |
| Species: <i>Noturus albater</i> | Teaching Collection |
| <i>Noturus exilis</i> | Teaching Collection |
| Family: <i>Ariidae</i> | |
| Species: <i>Ariopsis felis</i> | Teaching Collection |
| Order: Salmoniformes | |
| Family: <i>Salmonidae</i> | |
| Species: <i>Oncorhynchus mykiss</i> | Teaching Collection |
| Order: Aulopiformes | |
| Family: <i>Synodontidae</i> | |
| Species: <i>Synodus foetens</i> | Picture |
| Order: Gadiformes | |
| Family: <i>Merlucciidae</i> | |
| Species: <i>Urophycis regia</i> | Teaching Collection |
| Family: <i>Physidae</i> | |
| Species: <i>Urophycis floridana</i> | Teaching Collection |

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| Order: Ophidiiformes | |
| Family: Ophidiidae | |
| Species: <i>Lepophidium brevibarbe</i> | Teaching Collection |
| <i>Ophidion josephi</i> | Teaching Collection |
| <i>Ophidion welshi</i> | Teaching Collection |
| Order: Pleuronectiformes | |
| Family: Achiridae | |
| Species: <i>Trinectes maculatus</i> | Teaching Collection |
| Family: Cynoglossidae | |
| Species: <i>Symphurus plagiusa</i> | Teaching Collection |
| Family: Paralichthyidae | |
| Species: <i>Citharichthys macrops</i> | Teaching Collection |
| <i>Etropus crossotus</i> | Teaching Collection |
| <i>Paralichthys squamilentus</i> | Personal Collection |
| <i>Syacium papillosum</i> | Personal Collection |
| Order: Antheriniformes | |
| Family: Atherinopsidae | |
| Species: <i>Membras martinica</i> | Teaching Collection |
| <i>Menidia peninsulae</i> | Personal Collection |
| Family: Atherinidae | |
| Species: <i>Labidesthes sicculus</i> | Teaching Collection |
| Order: Cyprinodontiformes | |
| Family: Cyprinodontidae | |
| Species: <i>Cyprinodon variegatus</i> | Teaching Collection |
| Family: Poeciliidae | |
| Species: <i>Gambusia affinis</i> | Teaching Collection |
| <i>Poecilia latipinna</i> | Personal Collection |
| Family: Fundulidae | |
| Species: <i>Adinia xenica</i> | Teaching Collection |
| <i>Fundulus catenatus</i> | Teaching Collection |
| <i>Fundulus grandis</i> | Teaching Collection |
| <i>Fundulus majalis</i> | Personal Collection |
| <i>Fundulus olivaceus</i> | Teaching Collection |
| <i>Fundulus pulvereus</i> | Personal Collection |
| <i>Lucania parva</i> | Teaching Collection |
| Order: Mugiliformes | |
| Family: Mugilidae | |
| Species: <i>Mugil curema</i> | Teaching Collection |
| <i>Mugil cephalus</i> | Personal Collection |
| Order: Gobiesociformes | |
| Family: Gobiesocidae | |
| Species: <i>Gobiesox strumosus</i> | Teaching Collection |
| Order: Tetraodontiformes | |
| Family: Tetraodontidae | |
| Species: <i>Sphoeroides parvus</i> | Teaching Collection |
| Order: Perciformes | |
| Family: Eleotridae | |
| Species: <i>Dormitator maculatus</i> | Teaching Collection |
| Family: Gobiidae | |
| Species: <i>Ctenogobius boleosoma</i> | Teaching Collection |
| <i>Gobiosoma bosci</i> | Personal Collection |

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| Family: Syngnathidae | |
| Species: <i>Hippocampus erectus</i> | Picture |
| Family: Trichiuridae | |
| Species: <i>Trichiurus lepturus</i> | Teaching Collection |
| Family: Stromateidae | |
| Species: <i>Peprilus burti</i> | Teaching Collection |
| Family: Scombridae | |
| Species: <i>Scomberomorus maculatus</i> | Teaching Collection |
| <i>Thunnus atlanticus</i> | Teaching Collection |
| Family: Sphyraenidae | |
| Species: <i>Sphyraena guachancho</i> | Teaching Collection |
| Family: Lutjanidae | |
| Species: <i>Lutjanus campechanus</i> | Teaching Collection |
| Family: Moronidae | |
| Species: <i>Morone chrysops</i> | Teaching Collection |
| Family: Sciaenidae | |
| Species: <i>Cynoscion arenarius</i> | Teaching Collection |
| <i>Leiostomus xanthurus</i> | Teaching Collection |
| <i>Menticirrhus americanus</i> | Teaching Collection |
| <i>Menticirrhus littoralis</i> | Teaching Collection |
| <i>Micropogonias undulatus</i> | Teaching Collection |
| <i>Sciaenops ocellatus</i> | Teaching Collection |
| <i>Stellifer lanceolatus</i> | Teaching Collection |
| Family: Sparidae | |
| Species: <i>Archosargus probatocephalus</i> | Teaching Collection |
| <i>Lagodon rhomboides</i> | Personal Collection |
| <i>Stenotomus caprinus</i> | Teaching Collection |
| Family: Centrarchidae | |
| Species: <i>Lepomis cyanellus</i> | Teaching Collection |
| <i>Lepomis humilus</i> | Teaching Collection |
| <i>Lepomis macrochirus</i> | Teaching Collection |
| <i>Lepomis megalotis</i> | Teaching Collection |
| <i>Micropterus salmoides</i> | Teaching Collection |
| Family: Carangidae | |
| Species: <i>Trachurus lathami</i> | Teaching Collection |
| Family: Serranidae | |
| Species: <i>Diplectrum bivittatum</i> | Personal Collection |
| <i>Perca formosa</i> | Teaching Collection |
| Family: Percidae | |
| Species: <i>Ammycrypta vivax</i> | Picture |
| <i>Etheostoma careuleum</i> | Teaching Collection |
| <i>Etheostoma cragini</i> | Picture |
| <i>Etheostoma flabellare</i> | Teaching Collection |
| <i>Etheostoma microperca</i> | Picture |
| <i>Etheostoma punctulatum</i> | Teaching Collection |
| <i>Etheostoma spectabile</i> | Teaching Collection |
| <i>Etheostoma zonale</i> | Teaching Collection |
| <i>Percina caprodes</i> | Teaching Collection |
| Order: Scorpaeniformes | |
| Family: Triglidae | |
| Species: <i>Prionotus rubio</i> | Teaching Collection |

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Species: *Phormium tenax*

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Family: *Phormiaceae*

Prionotus tribulus
Family: Cottidae
Species: *Cottus carolinae*
Cottus hypselurus

Teaching Collection

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Teaching Collection

II.

3/17/2014

Billy Goat Ramp

30.27206 N, 88.08156 W

Mobile County, AL

Habitat: Calm water, bay area

Species Collected: *Urophycis regius* (Spotted Hake) (1)

Ctenogobius boleosoma (Darter Goby) (1)

Membras martinica (Rough Silverside) (1)

Menidia peninsulae (Tidewater Silverside) (4)

Poecilia latipinna (Sailfin Molly) (4)

Mugil cephalus (Striped Mullet) (4)

Mugil curema (White Mullet) (4)

Leiostamus xanthurus (Spot Croaker) (2)

Cyprinodon variegatus (Sheepshead Minnow) (1)

Urophycis floridana (Southern Hake) (2)

Lepophidium pheromystax (Blackedge Cuskeel) (4)

Fundulus grandis (Gulf Killifish) (1)

Trachurus lathami (Rough Scad) (1)

Brevoortia patronus (Gulf Menhaden) (9)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/18/2014

Ocean Trawl

30.257584 N, 88.069925 W

Mobile County, AL

Habitat: Middle of bay area

Species Collected: *Ariopsis felis* (Hardhead Catfish) (6)

Menticirrhus littoralis (Gulf Kingfish) (1)

Lutjanus campechanus (Red Snapper) (1)

Prionotus rubio (Blackwing Sea Robin) (5)

Trichiurus lepturus (Atlantic Cutlassfish) (1)

Spoeoroides parvus (Least Puffer) (4)

Stellifer laceolatus (Star Drum) (1)

Cynoscion arenarius (Sand Sea Trout) (10)

Peprilus triacanthus (Gulf Butterfish) (5)

Diplectum bivittatum (Dwarf Sand Perch) (8)

Menticirrhus americanus (Southern Kingfish) (2)

Prionotus tribulus (Bighead Sea Robin) (1)

Etropus crossotus (Fringed Flounder) (5)

Citharichthys macrops (Spotted Whiff) (2)

Syacium papillosum (Dusky Flounder) (2)

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Diplectum formosum (Sand Perch) (8)
Anchoa mitchilli (Bay Anchovy) (19)
Stenotomus caprinus (Long Spine Porgy) (6)
Dasyatis Sabina (Atlantis Stingray) (1)
Micropogonias undulates (Atlantic Croaker) (1)
Trinectes maculatus (Hogchoaker) (1)
Lagodon rhomboids (Pinfish) (1)
Dorosoma Pretnense (Threadfin Shad) (8)
Ophidion josephi (Crested Cuskeel) (1)
Urophycis regia (Spotted Hake) (5)
Merluccius australis (Southern Hake) (3)
Archosargus probatocephalus (Sheepshead) (1)
Synodus foetens (Inshore Lizardfish) (1)
Hippocampus ercectus (Lined Seahorse) (1)
Sphyræna guachancho (Guaguanche) (1)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/19/2014

Campsite Beach

30.27206 N, 88.08156 W

Mobile County, AL

Habitat: sandy beach

Species Collected: *Mugil cephalus* (Striped Mullet) (9)

Peprilus burti (Gulf Butterfish) (3)

Menticirrhus littoralis (Gulf Kingfish) (1)

Anchoa mitchilli (Bay Anchovy) (1)

Paralichthys lethostigma (Southern Flounder) (2)

Gobiesox strumosus (Skilletfish) (1)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/19/2014

Billy Goat Ramp

30.27206 N, 88.08156 W

Mobile County, AL

Habitat: calm water, bay area

Species Collected: *Thunnus atlanticus* (Blackfin Tuna) (1)

Gobiesox strumosus (Skilletfish) (1)

Ctenogobius boleosoma (Darter Goby) (7)

Fundulus pulvereus (Bayou Killifish) (1)

Adinia xenic (Diamond Killifish) (3)

Menidia peninsulae (Tidewater Silverside) (2)

Fundulus grandis (Gulf Killifish) (2)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/19/2014

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1905-1914
 1915-1924
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 1935-1944
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Airport Marsh

30.27206 N, 88.12998 W

Mobile County, AL

Habitat: marsh

Species Collected: *Cyprinodon variegatus* (Sheepshead Minnow) (10)

Mugil curema (White Mullet) (11)

Leiostomus xanthurus (Spot Croaker) (11)

Lucania parva (Rainwater Killifish) (1)

Jenkinsia lamprotaenia (Dwarf Herring) (1)

Fundulus majalis (Striped Killifish) (3)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/19/2014

Tidal Ditch

30.27206 N, 88.08156 W

Mobile County, AL

Habitat: shallow, standing water in ditches

Species Collected: *Poecilia latipinna* (Sailfin Molly) (6)

Dormitator maculatus (Fat Sleeper) (1)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/20/2014

Lagoon Park Launch

30.255143N, 87.715166W

Mobile County, AL

Habitat: shallow water

Species Collected: *Lagodon rhomboids* (Pinfish) (4)

Ctenogobius boleosoma (Darter Goby) (6)

Menidia peninsulae (Tidewater Silverside) (1)

Anchoa mitchilli (Bay Anchovy) (1)

Gobiosoma boscii (Naked Goby) (4)

Symphurus plagiatus (Black Cheek Tonguefish) (1)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/20/2014

Causeway

30.322711 N, 88.135942

Mobile County, AL

Habitat: shallow bay area

Species Collected: *Paralichthys lethostigma* (Southern Flounder) (1)

Mugil cephalus (Striped Mullet) (1)

Paralichthys squamilentus (Broad Flounder) (1)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/20/2014

Tidal Ditch

30.27206 N, 88.08156 W

Mobile County, AL

Habitat: standing, shallow water in ditch

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

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/20/2014

Billy Goat Ramp

30.27206 N, 88.08156 W

Mobile County, AL

Habitat: shallow bay area

Species Collected: *Scomberomorus maculatus* (Spanish Mackerel) (1)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

3/20/2014

Campsite Beach

30.27206 N, 88.08156 W

Mobile County, AL

Habitat: sand beach

Species Collected: *Sciaenops ocellatus* (Red Drum) (1)

Collectors: Allison Hullinger, Jared Lytle, Lewis Kellogg, Logan Vanoversheldt, Jesse Morland, Thomas Meyers, Tyler Dubin, Valerie Weilert, Samantha Young, Cheyanne Reynolds, Cori Brown, Sydney Hale, Deann harreld, Bri Hall, McKinzie May

4/12/2014

Center Creek

Old US 66 (N37°04'18.12, W94°06'35.66)

Jasper County, MO

Habitat: Stream

Species Collected: *Luxilus cardinalis* (Cardinal Shiner) (13)

Lepomis macrochirus (Bluegill) (1)

Etheostoma flabellare (Fantail Darter) (3)

Etheostoma punctulatum (Stippled Darter) (10)

Noturus exilis (Slender Madtom) (5)

Etheostoma microperca (Least Darter) (1)

Etheostoma cragini (Arkansas Darter) (1)

Campostoma anomalum (Central Stoneroller) (6)

Etheostoma spectabile (Orangethroat Darter) (8)

Hypentelium nigricans (Northern Hogsucker) (2)

Cottos carolinae (Banded Sculpin) (1)

Morone chrysops (White Bass) (1)

Notropis nubilus (Ozark Minnow) (2)

Nocomis asper (Red Spot Chub) (1)

Lepomis cyanellus (Green Sunfish) (1)

4-12-2014

Field Notes

2014-2015 W. 82.00154 W

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

4-12-2014

Field Notes

2014-2015 W. 82.00154 W

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

4-12-2014

Field Notes

2014-2015 W. 82.00154 W

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

4-12-2014

Field Notes

2014-2015 W. 82.00154 W

Albino Group, A1

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Albino Group, A1

Albino Group, A1

Albino Group, A1

Albino Group, A1

Notropis percobromus (Carmine Shiner) (4)

Collectors: Allison Hullinger, McKinzie May, Thomas Meyers, Samantha Young, Tyler Dubin, Lewis Kellogg, Deann Harreld, Jesse Morland, Dillon Barton, Brady Bunton, Jared Lytle, Thomas Westerhaus

4/12/2014

James River

MO 125 (N 36.80720, W -93.46265)

Stone County, MO

Habitat: Stream

Species Collected: *Luxilus pilsbryi* (Dusky Stripe Shiner) (3)

Fundulus olivaceus (Blackspotted Top Minnow) (5)

Etheostoma spectabile (Orangethroat Darter) (5)

Etheostoma caeruleum (Rainbow Darter) (5)

Campostoma oligolepis (Largescale Stoneroller) (2)

Campostoma pullum (Central Stoneroller) (2)

Percina caprodes (Logperch) (1)

Noturus albater (Ozark Madtom) (3)

Fundulus catenatus (Northern Studfish) (2)

Etheostoma zonale (Banded Darter) (2)

Phoxinus erythrogaster (Southern Redbellied Dace) (2)

Notropis nubilus (Ozark Minnow) (3)

Luxilus cornutus (Striped Shiner) (2)

Collectors: Allison Hullinger, McKinzie May, Thomas Meyers, Samantha Young, Tyler Dubin, Lewis Kellogg, Deann Harreld, Jesse Morland, Dillon Barton, Brady Bunton, Jared Lytle, Thomas Westerhaus

4/12/2014

Beaver Creek

Kissee Mills (N 36.67333, W -93.02072)

Taney County, MO

Habitat: Stream

Species Collected: *Micropterus salmoides* (Large Mouth Bass) (1)

Percina caprodes (Logperch) (4)

Lepomis macrochirus (Bluegill) (2)

Fundulus catenatus (Northern Studfish) (4)

Lepomis megalotis (Longear Sunfish) (6)

Hybopsis dissimilis (Streamline Chub) (1)

Fundulus olivaceus (Black Spotted Topminnow) (2)

Campostoma pullum (Central Stoneroller) (1)

Etheostoma spectabile (Orangethroat Darter) (2)

Notropis boops (Big Eye Shiner) (1)

Cyprinella galactura (Whitetail Shiner) (1)

Notropis amblops (Big Eye Chub) (1)

Dionda nuble (Ozark Minnow) (1)

Collectors: Allison Hullinger, McKinzie May, Thomas Meyers, Samantha Young, Tyler Dubin, Lewis Kellogg, Deann Harreld, Jesse Morland, Dillon Barton, Brady Bunton, Jared Lytle, Thomas Westerhaus

4/12/2014

White River

Keywords: child sexual abuse; disclosure; self-blame

Sunburst Canoe Ranch (N 36.65482, W -92.22122)

Ozark County, MO

Habitat: Stream

Species Collected: *Oncorhynchus mykiss* (Rainbow Trout) (4)

Cottus carolinae (Banded Sculpin) (1)

Nocomis biguttatus (Horny Head Chub) (5)

Etheostoma caeruleum (Rainbow Darter) (1)

Cottus hypselurus (Ozark Sculpin) (6)

Phoxinus erythrogaster (Red Bellied Dace) (1)

Luxilus pilsbryi (Dusky Stripe Shiner) (1)

Etheostoma punctulatum (Stippled Darter) (3)

Collectors: Allison Hullinger, McKinzie May, Thomas Meyers, Samantha Young, Tyler Dubin, Lewis Kellogg, Deann Harreld, Jesse Morland, Dillon Barton, Brady Bunton, Jared Lytle, Thomas Westerhaus

4/13/2014

Current River

US 60, Van Buren Access (N 36.99232, W - 91.0134)

Carter County, MO

Habitat: Stream

Species Collected: *Fundulus catenatus* (Northern Studfish) (1)

Notropis nubilus (Ozark Minnow) (2)

Etheostoma zonale (Banded Darter) (1)

Notropis zonatus (Bleeding Shiner) (9)

Lepomis humilis (Orangespotted Sunfish) (1)

Moxostoma duquesnei (Black Redhorse) (1)

Etheostoma caeruleum (Rainbow Darter) (1)

Hypentelium nigricans (Northern Hogsucker) (2)

Cyprinella galactura (Whitetail Shiner) (6)

Nocomis biguttatus (Hornyhead Chub) (1)

Collectors: Allison Hullinger, McKinzie May, Thomas Meyers, Samantha Young, Tyler Dubin, Lewis Kellogg, Deann Harreld, Jesse Morland, Dillon Barton, Brady Bunton, Jared Lytle, Thomas Westerhaus

4/13/2014

Black River

MO 34, Mill Spring (N 36.99232, W -91.01342)

Wayne County, MO

Habitat: Stream

Species Collected: *Ammocrypta vivax* (Scaly Sand Darter) (1)

Gambusia affinis (Mosquito Fish) (2)

Pimphales notatus (Bluntnosed Minnow) (2)

Cyprinella venusta (Black Tail Shiner) (7)

Notropis boops (Big Eye Shiner) (11)

Labidesthes sicculus (Brook Silverside) (3)

Collectors: Allison Hullinger, McKinzie May, Thomas Meyers, Samantha Young, Tyler Dubin, Lewis Kellogg, Deann Harreld, Jesse Morland, Dillon Barton, Brady Bunton, Jared Lytle, Thomas Westerhaus

II. Alabama- (58 total)

[illegible]

Adinia xenica
Anchoa mitchilli
Archosargus probatocephalus
Ariopsis felis
Brevoortia patronus
Citharichthys macrops
Ctenogobius boleosoma
Cynoscion arenarius
Cyprinodon variegatus
Dasyatis sabina
Diplectrum bivittatum
Dormitator maculatus
Dorosoma petenense
Etropus crossotus
Fundulus grandis
Fundulus majalis
Fundulus pulvereus
Gambusia affinis
Gobiesox strumosus
Gobiosoma bosci
Hippocampus erectus
Jenkinsia lamprotaenia
Lagodon rhomboides
Leiostomus xanthurus
Lepophidium brevibarbe
Lucania parva
Lutjanus campechanus
Membras martinica
Menidia peninsulae

Menticirrhus americanus
Menticirrhus littoralis
Micropogonias undulatus
Mugil cephalus
Mugil curema
Ophidion welshi
Ophidion josephi
Paralichthys lethostigma
Paralichthys squamilentus
Peprilus burti
Perca formosa
Poecilia latipinna
Prionotus rubio
Prionotus tribulus
Sciaenops ocellatus
Scomberomorus maculatus
Sphoeroides parvus
Sphyrna guachancho
Stellifer lanceolatus
Stenotomus caprinus
Syacium papillosum
Symphurus plagiusa
Synodus foetens
Thunnus atlanticus
Trachurus lathami
Trichiurus lepturus
Trinectes maculatus
Urophycis floridana
Urophycis regia

Missouri-(42 total)

Etheostoma cragini
Etheostoma zonale
Cottus carolinae
Notropis boops
Notropis amblops
Moxostoma duquesnei
Fundulus olivaceus
Cyprinella venusta
Notropis zonatus
Lepomis macrochirus
Pimphales notatus
Labidesthes sicculus
Luxilus cardinalis
Notropis percobromus
Camptostoma anomalum
Luxilus pilsbryi
Etheostoma flabellare

Lepomis cyanellus
Nocomis biguttatus
Micropterus salmoides
Camptostoma oligolepis
Etheostoma microperca
Percina caprodes
Lepomis megalotis
Gambusia affinis
Hypentelium nigricans
Fundulus catenatus
Lepomis humilis
Etheostoma spectabile
Notropis nubilus
Cottus hypselurus
Etheostoma caeruleum
Oncorhynchus mykiss
Nocomis asper

[illegible]

(b)(6) (b)(7)(C) - Exempt

[illegible]

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific information required.

2. Next, gather relevant data and information. This can be done through research, interviews, or direct observation. It is important to ensure that the data is accurate and reliable.

3. Once the data is collected, it should be analyzed to identify patterns, trends, and relationships. This step often involves the use of statistical methods or other analytical tools.

4. After analysis, the findings should be interpreted in the context of the original problem. This means drawing conclusions based on the evidence and considering any limitations or caveats.

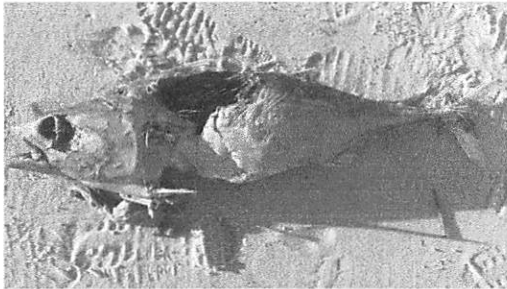
5. Finally, the results should be communicated clearly and effectively. This can be done through a report, presentation, or other appropriate medium. The goal is to provide a clear and concise answer to the original question.

1. The first step is to identify the problem. This involves understanding the current situation and the goals that need to be achieved.

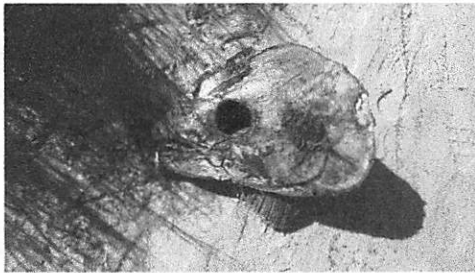
Ammocrypta vivax
Noturus exilis
Phoxinus erythrogaster
Etheostoma punctulatum

Hybopsis dissimilis
Luxilus cornutus
Morone chrysops
Cyprinella galactura

IV.



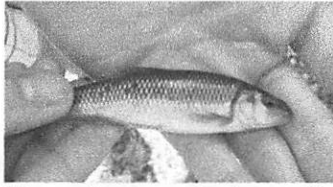
Scomberomorus maculatus, Spanish Mackerel
Billy Goat Ramp 30.27206 N, 88.08156 W
Ichthyology Class 3-20-14



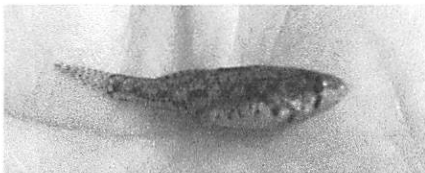
Thunnus atlanticus, Black Fin Tuna
Billy Goat Ramp 30.27206 N, 88.08156 W
Ichthyology Class 3-19-14



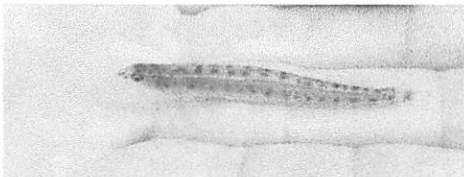
Sciaenops ocellatus, Red Drum
Campsite Beach 30.27206 N, 88.08156 W
Ichthyology Class 3-20-14



Nocomis asper, Redspot Chub
 Old US 66 (N37°04'18.12, W94°06'35.66)
 Ichthyology Class 4-12-2014



Etheostoma cragini, Arkansas Darter
 Old US 66 (N37°04'18.12, W94°06'35.66)
 Ichthyology Class 4-13-2014



Ammycrypta vivax, Scaly Sand Darter
 MO 34, Mill Spring (N 36.99232, W -91.01342)
 Ichthyology Class 4-13-2014



Etheostoma microperca, Least Darter
 Old US 66 (N37°04'18.12, W94°06'35.66)
 Ichthyology Class 4-13-2014



Morone chrysops, White Bass
Old US 66 (N37°04'18.12, W94°06'35.66)
Ichthyology Class 4-13-2014