

# Ichthyology Notebook

Thomas Westerhaus

May 8<sup>th</sup>, 2014

Pittsburg State University

BIOL-533

Final Collection Notebook

Dr. Triplett

## Table of Contents:

Phylogenic Listing of Species.....	1
Chronological Listing of Species.....	3
Listing of Species by State.....	10
Photographs of Species.....	14

ORDER	FAMILY	SCIENTIFIC NAME	Number Caught	Location
Lepisosteiformes	Lepisosteidae	<i>Lepisosteus osseus</i>	3	Dead when found
Cypriniformes	Catostomidae	<i>Moxostoma duquesnei</i>	1	Teaching Collection
Cypriniformes	Catostomidae	<i>Hypentelium nigricans</i>	4	Teaching Collection
Cypriniformes	Cyprinidae	<i>Cyprinus carpio</i>	1	Dead when found
Cypriniformes	Cyprinidae	<i>Cyprinella spiloptera</i>	1	Released
Cypriniformes	Cyprinidae	<i>Campostoma anomalum</i>	6	Teaching Collection
Cypriniformes	Cyprinidae	<i>Campostoma oligolepis</i>	2	Teaching Collection
Cypriniformes	Cyprinidae	<i>Cyprinella galactura</i>	9	Teaching Collection
Cypriniformes	Cyprinidae	<i>Cyprinella venusta</i>	7	Teaching Collection
Cypriniformes	Cyprinidae	<i>Hybopsis dissimilis</i>	1	Teaching Collection
Cypriniformes	Cyprinidae	<i>Luxilus cardinalis</i>	13	Teaching Collection
Cypriniformes	Cyprinidae	<i>Luxilus cornutus</i>	2	Teaching Collection
Cypriniformes	Cyprinidae	<i>Luxilus pilsbryi</i>	4	My Collection
Cypriniformes	Cyprinidae	<i>Nocomis asper</i>	1	Released
Cypriniformes	Cyprinidae	<i>Nocomis biguttatus</i>	1	Released
Cypriniformes	Cyprinidae	<i>Notropis amblops</i>	1	Teaching Collection
Cypriniformes	Cyprinidae	<i>Notropis boops</i>	6	Teaching Collection
Cypriniformes	Cyprinidae	<i>Notropis nubilus</i>	8	My Collection
Cypriniformes	Cyprinidae	<i>Notropis percobromus</i>	4	Teaching Collection
Cypriniformes	Cyprinidae	<i>Notropis texanus</i>	6	Teaching Collection
Cypriniformes	Cyprinidae	<i>Notropis zonatus</i>	9	Teaching Collection
Cypriniformes	Cyprinidae	<i>Phoxinus erythrogaster</i>	2	Teaching Collection
Cypriniformes	Cyprinidae	<i>Pimphales notatus</i>	4	My Collection
Siluriformes	Ictaluridae	<i>Ictalurus punctatus</i>	1	Released
Siluriformes	Ictaluridae	<i>Noturus albatel</i>	3	Teaching Collection
Siluriformes	Ictaluridae	<i>Noturus exilis</i>	5	Teaching Collection
Salmoniformes	Salmonidae	<i>Oncorhynchus mykiss</i>	4	My Collection
Antheriniformes	Atherinidae	<i>Labidesthes sicculus</i>	3	Teaching Collection
Cyprinodontiformes	Poeciliidae	<i>Gambusia affinis</i>	2	Teaching Collection
Cyprinodontiformes	Fundulidae	<i>Fundulus notatus</i>	1	Released
Cyprinodontiformes	Fundulidae	<i>Fundulus olivaceus</i>	7	Teaching Collection
Cyprinodontiformes	Fundulidae	<i>Fundulus catenatus</i>	7	Teaching Collection
Perciformes	Moronidae	<i>Morone chrysops</i>	1	Teaching Collection
Perciformes	Centrarchidae	<i>Lepomis cyanellus</i>	1	Teaching Collection
Perciformes	Centrarchidae	<i>Lepomis humilis</i>	1	Teaching Collection
Perciformes	Centrarchidae	<i>Lepomis macrochirus</i>	3	Teaching Collection
Perciformes	Centrarchidae	<i>Lepomis megalotis</i>	6	My collection
Perciformes	Centrarchidae	<i>Micropterus dolomieu</i>	1	Released
Perciformes	Centrarchidae	<i>Micropterus salmoides</i>	1	Teaching Collection
Perciformes	Percidae	<i>Ammocrypta vivax</i>	1	Released
Perciformes	Percidae	<i>Etheostoma nigrum</i>	1	Released
Perciformes	Percidae	<i>Etheostoma careuleum</i>	7	My collection
Perciformes	Percidae	<i>Etheostoma cragini</i>	1	Released
Perciformes	Percidae	<i>Etheostoma flabellare</i>	3	Teaching Collection
Perciformes	Percidae	<i>Etheostoma microperca</i>	1	Released
Perciformes	percidae	<i>Etheostoma punctulatum</i>	13	My collection

Perciformes	Percidae	<i>Etheostoma spectabile</i>	15	My collection
Perciformes	Percidae	<i>Etheostoma zonale</i>	3	Teaching Collection
Perciformes	Percidae	<i>Percina caprodes</i>	5	My collection
Scorpaeniformes	Cottidae	<i>Cottus carolinae</i>	2	Teaching Collection
Scorpaeniformes	Cottidae	<i>Cottus hypselurus</i>	6	My collection

## Chronological Listing

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

Scientific Name	Common Name	#	Location
<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>Camptostoma anomalum</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 anabrops</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>Cyprinella venusta</i>	(Black Tail Shiner)	(7)	Teaching Collection
<i>Notropis boops</i>	(Big Eye Shiner)	(11)	Teaching Collection
<i>Labidesthes sicculus</i>	(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
<i>Fundulus catenatus</i>	(Northern Studfish)	(1)	Teaching Collection
<i>Notropis nubilus</i>	(Ozark Minnow)	(2)	Teaching Collection
<i>Etheostoma zonale</i>	(Banded Darter)	(1)	Teaching Collection
<i>Notropis zonatus</i>	(Bleeding Shiner)	(9)	Teaching Collection
<i>Lepomis humilus</i>	(Orangespotted Sunfish)	(1)	Teaching Collection
<i>Moxostoma duquesnei</i>	(Black Redhorse)	(1)	Teaching Collection
<i>Etheostoma careuleum</i>	(Rainbow Darter)	(1)	Teaching Collection
<i>Hypentelium nigricans</i>	(Northern Hogsucker)	(2)	Teaching Collection
<i>Cyprinella galactura</i>	(White Tailed Shiner)	(6)	Teaching Collection
<i>Nocomis biguttatus</i>	(Horney Head Chub)	(1)	Teaching Collection

4/27/2014

Shoal Creek

Access at Schermerhorn Park in Galena Kansas

N 37.04485, W -94.63992

Cherokee County, KS

Habitat: Stream

Collectors: Samantha Young, Balsam Alessa, Thomas Westerhaus, Logan Vanoverschelde, Deanne Herald, Stephanie Reynolds, Valerie Weilert, James Triplett

Species Collected:

Scientific Name	Common Name	#	Location
<i>Etheostoma spectabile</i>	(Orangethroated Darter)		Released
<i>Notropis nubilus</i>	(Ozark Minnow)		Teaching Collection
<i>Etheostoma zonale</i>	(Banded Darter)		Released
<i>Notropis percobromus</i>	(Carmine Shiner)		Teaching Collection
<i>Percina caprodes</i>	(Logperch)		Released
<i>Cyprinella spiloptera</i>	(Spotfin Shiner)		Released
<i>Pimphales notatus</i>	(Bluntnose Minnow)		Teaching Collection
<i>Campostoma anomalum</i>	(Central Stoneroller)		Released
<i>Luxilus cardinalis</i>	(Cardinal Shiner)		Released
<i>Pimphales vigilax</i>	(Bullhead Minnow)		Released
<i>Etheostoma nigrum</i>	(Johnny Darter)		Released
<i>Etheostoma blenoides</i>	(Greenside Darter)		Released
<i>Noturus exilis</i>	(Slender Madtom)	(1)	Released
<i>Micropterus dolomieu</i>	(Small Mouth Bass)		Released
<i>Lepomis megalotis</i>	(Longear Sunfish)		Released
<i>Cyprinus carpio</i>	(Common Carp)		Dead When Found

Spring River

N 37.05613, W -94.70204

Cherokee County, KS

**Habitat:** Dammed River, below hydroelectric plant

**Collectors:** Samantha Young, Balsam Alessa, Thomas Westerhaus, Logan Vanoverschelde, Deanne Herald, Stephanie Reynolds, Valerie Weilert, James Triplett

**Species Collected:**

<b>Scientific Name</b>	<b>Common Name</b>	<b>#</b>	<b>Location</b>
<i>Lepisosteus osseus</i>	(Longnose Gar)	(3)	Deceased
<i>Fundulus notatus</i>	(Black Stripe Topminnow)		Released
<i>Lepomis humilis</i>	(Orangespotted Sunfish)		Released

5/7/2014

**Lakeside Park**

N 37.4028563, W-94.7143632

**Crawford County, KS**

**Habitat:** Pond

**Collectors:** Jesse Moreland & Thomas Westerhaus

**Species Collected:**

<b>Scientific Name</b>	<b>Common Name</b>	<b>#</b>	<b>Location</b>
<i>Ictalurus punctatus</i>	(Channel catfish)	(1)	Released

# State by State Species List

## Missouri

Scientific Name	Common Name	#	Location
<i>Luxilus cardinalis</i>	(Cardinal Shiner)	(13)	Center Creek
<i>Lepomis macrochirus</i>	(Bluegill)	(1)	Center Creek
<i>Etheostoma flabellare</i>	(Fantail Darter)	(3)	Center Creek
<i>Etheostoma punctulatum</i>	(Stippled Darter)	(10)	Center Creek
<i>Noturus exilis</i>	(Slender Madtom)	(5)	Center Creek
<i>Etheostoma microperca</i>	(Least Darter)	(1)	Center Creek
<i>Etheostoma cragini</i>	(Arkansas Darter)	(1)	Center Creek
<i>Campostoma anomalum</i>	(Central Stoneroller)	(6)	Center Creek
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(8)	Center Creek
<i>Hypentelium nigricans</i>	(Northern Hogsucker)	(2)	Center Creek
<i>Cottos carolinae</i>	(Banded Sculpin)	(1)	Center Creek
<i>Morone chrysops</i>	(White Bass)	(1)	Center Creek
<i>Notropis nubilus</i>	(Ozark Minnow)	(2)	Center Creek
<i>Nocomis asper</i>	(Red Spot Chub)	(1)	Center Creek
<i>Lepomis cyanellus</i>	(Green Sunfish)	(1)	Center Creek
<i>Luxilus pilsbryi</i>	(Duskystripe Shiner)	(3)	James River
<i>Fundulus olivaceus</i>	(Blackspotted Topminnow)	(5)	James River
<i>Etheostoma spectabile</i>	(Orangethroat Darter)	(5)	James River
<i>Etheostoma caeruleum</i>	(Rainbow Darter)	(5)	James River
<i>Campostoma oligolepis</i>	(Large Scale Stoneroller)	(2)	James River
<i>Campostoma pullum</i>	(Central Stoneroller)	(2)	James River
<i>Percina caprodes</i>	(Logperch)	(1)	James River
<i>Noturus albater</i>	(Ozark Madtom)	(3)	James River

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

<i>Luxilus pilsbryi</i>	(Dusky Stripe Shiner)	(1)	White River
<i>Etheostoma punctulatum</i>	(Stippled Darter)	(3)	White River
<i>Ammycrypta vivax</i>	(Scaly Sand Darter)	(1)	Released
<i>Gambusia affinis</i>	(Mosquito Fish)	(2)	Black River
<i>Pimphales notatus</i>	(Blunt Nose Minnow)	(4)	Black River
<i>Cyprinella venusta</i>	(Black Tail Shiner)	(7)	Black River
<i>Notropis boops</i>	(Big Eye Shiner)	(11)	Black River
<i>Labidesthes sicculus</i>	(Brook Silverside)	(3)	Black River
<i>Fundulus catenatus</i>	(Northern Studfish)	(1)	Current River
<i>Notropis nubilus</i>	(Ozark Minnow)	(2)	Current River
<i>Etheostoma zonale</i>	(Banded Darter)	(1)	Current River
<i>Notropis zonatus</i>	(Bleeding Shiner)	(9)	Current River
<i>Lepomis humilus</i>	(Orangespotted Sunfish)	(1)	Current River
<i>Moxostoma duquesnei</i>	(Black Redhorse)	(1)	Current River
<i>Etheostoma careuleum</i>	(Rainbow Darter)	(1)	Current River
<i>Hypentelium nigricans</i>	(Northern Hogsucker)	(2)	Current River
<i>Cyprinella galactura</i>	(White Tailed Shiner)	(6)	Current River
<i>Nocomis biguttatus</i>	(Horney Head Chub)	(1)	Current River

[illegible]

PERMIT HOLDER NAME (LAST NAME, FIRST NAME)								
PERMIT NUMBER (SC-1994-2013)								
DATE OF COLLECTION MM/DD/YYYY		WHAT WAS COLLECTED (PLEASE SELECT FROM THE DROP DOWN LIST BELOW)	COMMON NAME	GENUS	SPECIFIC EPITHET	PLEASE INDICATE IF THIS SPECIES IS THREATENED - T ENDANGERED - E SUSCEPTIBLE - S (LEAVE BLANK IF NONE OF THE ABOVE)	QUANTITY COLLECTED (REMOVED AND/OR HANDLED)	DESCRIPTION OF THE AREA OF COLLECTION ACTIVITIES (I.E. WILDLIFE AREA) IF APPLICABLE
4/27/2014	FISH	Craygehead darter	Etheostoma	spectabile			1	Stream, Schermerhorn Park
4/27/2014	FISH	Cashin Minnow	Noemip	zonale			1	Stream, Schermerhorn Park
4/27/2014	FISH	Banded Darter	Etheostoma	zonale			1	Stream, Schermerhorn Park
4/27/2014	FISH	Laminate Minnow	Noemip	zonale			1	Stream, Schermerhorn Park
4/27/2014	FISH	Longhorn	Noemip	zonale			1	Stream, Schermerhorn Park
4/27/2014	FISH	Spotfin Shiner	Cyprinella	spiloptera			1	Stream, Schermerhorn Park
4/27/2014	FISH	Bluntnose Minnow	Pimephales	notatus			1	Stream, Schermerhorn Park
4/27/2014	FISH	Central Stoneworm	Camptostoma	anomolum			1	Stream, Schermerhorn Park
4/27/2014	FISH	Cardinal Shiner	Lepomis	cardinalis			1	Stream, Schermerhorn Park
4/27/2014	FISH	Bullhead Minnow	Pimephales	notatus			1	Stream, Schermerhorn Park
4/27/2014	FISH	Golden Darter	Etheostoma	zonale			1	Stream, Schermerhorn Park
4/27/2014	FISH	Greenback Darter	Etheostoma	zonale			1	Stream, Schermerhorn Park
4/27/2014	FISH	Slender Madfish	Noemip	zonale			1	Stream, Schermerhorn Park
4/27/2014	FISH	Smallmouth Bass	Micropterus	dolomieu			1	Stream, Schermerhorn Park
4/27/2014	FISH	Longear Sunfish	Lepomis	megalois			1	Stream, Schermerhorn Park
4/27/2014	FISH	Common Carp	Cyprinus	carpio			1	Stream, Schermerhorn Park
4/27/2014	FISH	Longnose Gar	Lepisosteus	osseus			3	Damned River Beneath Hydroelectric Plant
4/27/2014	FISH	Hickshin Minnow	Emmeline	notatus			1	Stream, Schermerhorn Park
4/27/2014	FISH	Orange Spotted Sunfish	Lepomis	humilis			1	Stream, Schermerhorn Park
5/27/2014	FISH	Channel Catfish	Ictalurus	nebulosus			1	Crabapple City Pond, Lake 5 de Port, Firstburg, NE

## Photographs

White Bass *Morone chrysops*

4/12/2014 Found Dead

GPS N37°04'18.12 W94°06'35.66

Old US 66, Jasper County; Center Creek

Class Collection





Arkansas Darter *Etheostoma cragini*

4/12/2014 Released Alive

Old US 66 Jasper County, Center Creek

GPS N37°04'18.12 W94°06'35.66

Class Collection



Least Darter *Etheostoma microperca*

4/12/2014 Released Alive

Old US 66 Jasper County; Center Creek

GPS N37°04'18.12 W94° 06' 35.66

Class Collection





Red Spot Chub *Nocomis asper*

4/12/2014 Released Alive

Old US 66 Jasper County; Center Creek

GPS N37°04'18.12 W94°06' 35.66

Class Collection



Scaly Sand Darter *Ammycrypta vivax*

4/13/2014 Released Alive

MO 34, Mill Spring, Wayne County; Black River

GPS N 36.99232 W -91.01342

Class Collection





Common Carp, *Cyprinus carpio*

4/27/14. Found Dead

Shoal Creek

Access at Schermerhorn Park in Galena Kansas

N 37.04485, W -94.63992

Cherokee County, KS





Channel Catfish *Ictalurus punctatus*

5/7/14 Caught and released

Lakeside Park

N 37.4028563, W-94.7143632

Crawford County, KS



