

Jeff Borchardt

has all four sections
but phylogenetic list is out of order

69 fish

thousand feet

and the rest is in
water for the whole of the year

dry 10

Ichthyology

Field Notebook

Jeff Borchardt

I ch+phology

Field Notebook

26th Barchan

order: cypriniformes

family: cyprinidae

Cyprinus carpio

Notemigonus crysoleucas

Semotilus atromaculatus

Phoxinus erythrogaster

Nocomis biguttatus

Nocomis asper

Hybopsis amblops

Hybopsis dissimilis

Hybopsis aestivalis

Phenacobius mirabilis

Notropis atherinoides

Notropis rubellus

Notropis telescopus

Notropis umbratilis

Notropis zonatus

Notropis pilsbryi

Notropis cornutus

Notropis chrysocephalus

Notropis boops

Notropis galacturus

Notropis lutrensis

Notropis topeka

Notropis stramineus

Dianda nubil

Pimephales vigilax

Pimpla

viridis

Notropis

viridis

Notropis

viridis

Notropis

viridis

Notropis

viridis

Notropis

viridis

Notropis

viridis

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viridis

Notropis

viridis

Notropis

family: cyprinidae

order: cypriniformes

Order: Cypriniformes

Family: Cyprinidae

Pimephales notatus

Pimephales promelas

Camptostoma oligolepis

Family: Catostomidae

Carpoides carpio

Hypentelium nigricans

Moxostoma duquesnei

Erimyzon oblongus

Order: Perciformes

Family: Centrarchidae

Micropterus salmoides

Micropterus punctulatus

Lepomis cyanellus

Lepomis humilis

Lepomis megalotis

Lepomis macrochirus

Pomoxis nigromaculatus

Pomoxis annularis

Lepomis microlophus

Family: Percidae

Percina caprodes

Percina maculata

Etheostoma nigrum

Etheostoma blennioides

Order: Cypriniformes

Family: Cyprinidae

Pimephales notatus

Pimephales promelas

Cambarus olidopsis

Family: Catostomidae

Catostomus commersoni

Hybostellum nigricans

Moxostoma valenciennesi

Erimyzon obsoletus

Order: Perciformes

Family: Centrarchidae

Micropterus salmoides

Micropterus punctulatus

Perca flavescens

Perca bairdii

Perca walleye

Perca macrochirus

Perca nigricauda

Perca americana

Perca microlophus

Family: Percidae

Percina caprodes

Percina maculata

Etheostoma nigrum

Etheostoma blennioides

Order: Perciformes

Family: Percidae

Etheostoma juliae

Etheostoma zonale

Etheostoma cragini

Etheostoma spectabile

Etheostoma caeruleum

Etheostoma microperca

Etheostoma flabellare

Etheostoma cazonum

Etheostoma stigmaeum

Family: Sciaenidae

Aplodinotus grunniens

Family: Percichthyidae

Morone saxatilis

Order: Siluriformes

Family: Ictaluridae

Ictalurus punctatus

Noturus exilis

Noturus albat

Order: Cyprinodontiformes

Family: Cyprinodontidae

Fundulus catenatus

Fundulus olivaceus

Order: Perciformes

Family: Percidae

Etheostoma juliae

Etheostoma zonale

Etheostoma caeruleum

Etheostoma spectabile

Etheostoma caeruleum

Etheostoma nigrum

Etheostoma flabellum

Etheostoma caeruleum

Etheostoma caeruleum

Family: ?

Aplodinotus grunniens

Family: Percichthyidae

Morone saxatilis

Order: Siluriformes

Family: Ictaluridae

Ictalurus punctatus

Noturus exilis

Noturus albat

Order: Cyprinodontiformes

Family: Cyprinodontidae

Fundulus catenatus

Fundulus olivaceus

Order: Cyprinodontiformes

Family: Poeciliidae

Gambusia affinis

Family: Atherinidae

Labidesthes sicculus

Order: Scorpaeniformes

Family: Cottidae

Cottus bairdi

Cottus carolinae

Order: Clupeiformes

Family: Clupeidae

Dorosoma cepedianum

Order: Lepisosteiformes

Family: Lepisosteidae

Lepisosteus osseus

Order: Salmoniformes

Family: Salmonidae

Salmo gairdneri

Order: Esociformes

Family: Esocidae

Esox americanus

Order: Cyprinodontiformes
Family: Poeciliidae
Gambusia affinis
Family: Atherinidae
Lepidosteus sicculus

Order: Scapriniformes
Family: Cottidae
Cottus bairdi
Cottus carolinus

Order: Clupeiformes
Family: Clupeidae
Dorosoma cepedianum

Order: Leptoosteiiformes
Family: Leptoosteiidae
Leptoosteus catus

Order: Salmoniformes
Family: Salmonidae
Salmo gairdneri

Order: Esociformes
Family: Esocidae
Esox americanus

Trip 1

4-25-92

Current River

T27N RIW sec 24 Hwy 60

Carter County

Habitat: River

Species Collected: Fundulus catenatus (N. studfish) 17
Cottus carolinae (banded sculpin) 15
Notropis zonatus (bleeding shiner) 21
Notropis rubellus (rosy face shiner) 16
Minytremma melanops (spotted sucker) 1
Erimyzon oblongus (creek chub sucker) 1
Esox americanus (grass pickerel) 10
Pimephales promelas (fathead minnow) 6
Cottus bairdi (mottled sculpin) 5
Fundulus olivaceus (Blackspot topminnow) 1
Lepomis humilis (orangspot sunfish) 1
Micropterus punctulatus (Spotted bass) 2
Labidesthes sicculus (Brook silverside) 2
Noturus albastris (Ozark madtom) 2
Etheostoma caeruleum (rainbow darter) 6
Etheostoma zonale (banded darter) 10
Moxostoma dugesii (Black redhorse) 4
Notropis boops (Bigeye shiner) 2
Notropis telescopus (telescope shiner) 1

Tril

4-26-4

(Current River)

1971 N. R. W. sec 9A Hwy 100

(Carter County)

Habitat: River

Species collected: 2

Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

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Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

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Notropis carolinensis (banded shiner) 12

Notropis carolinensis (banded shiner) 12

4-25-92

Black River

T24N R6E sec. 2 Hwy 34

Butler County

Habitat: River

Species collected: (1) Camptostoma oligolepis (large scale stoneworm)

4-26-92

Center Creek

T27N R29W sec. 9 Hwy 66

Jasper County

Habitat: Stream

Species collected: Etheostoma microperca (least darter) (1)

4-26-92

White River

T23N R12W sec. 25 Hwy H

Ozark County

Habitat: River

Species collected: Percina caprodes (log perch) 3

Salmo gairdneri (rainbow trout) 5

Hypentelium nigricans (N. Hogsucker) 1

Phoxinus erythrogaster (so. redbelly dace) 9

Nocomis biguttatus (Horny head chub) 4

Notropis pilsbryi (Dusky stripe)

Cottus caroliniae (banded sculpin)

Cottus carolinus (small)

Notropis virgatus (dusky stripe)

Notropis ruber (red head)

Platypharodon (small)

Hypentelium nigricans (black)

Salmo gairdneri (rainbow trout)

species collected: Perca carolinensis (largemouth bass)

Habitat: River

County: Clark

Town: New York

White River

4-26-99

(11) species collected: Etheostoma caeruleum (bluegill)

Habitat: Stream

County: Clark

Town: New York

Center Creek

4-26-99

Habitat: River

County: Clark

Town: New York

Black River

4-26-99

4-26-92

James River

T24N R23W sec. 7 Hwy 248

Stone County

Habitat: River

Species collected:

- Gambusia affinis (mosquitofish) 7
- Notropis galacturus (whitetail shiner) 5
- Etheostoma juliae (Yolk darter) 2
- Etheostoma blennioides (Greenside darter) 6
- Etheostoma spectabile (Orangethroat darter) 2
- Hybopsis dissimilis (streamline chub) 3
- Dionda rubra (Ozark minnow) 7
- Lepomis megalotis (long ear sunfish)

Collectors on all sites: Jeff Borchardt + Class

4-28-82

Lower River

1941 N. 103 W sec. 1

May 1948

Stone County

Habitat: River

Species collected:

Desmarestia (Desmarestia)

Notropis (Notropis)

Etheostoma (Etheostoma)

Etheostoma (Etheostoma)

Etheostoma (Etheostoma)

Hyphessobrycon (Hyphessobrycon)

Danio (Danio)

Leuciscus (Leuciscus)

(collectors on all sites: Jeff Borland + Cass)

Trip 2

5-2-92

Kansas River (Beaversock dam)

T12S, R20E, sec. 28 Hwy 40

Douglas County

Habitat: River

Species collected: Hybopsis aestivalis (speckled chub) 6
Ictalurus punctatus (channel catfish) 6
Lepomis annularis (white crappie) 3
Notropis stramineus (sand shiner) 14
Notropis lutrensis (red shiner) 16
Phenacobius mirabilis (stuckermouth minnow) 4
Notropis atherinoides (emerald shiner)

5-2-92

Clinton Spillway

T13S R19E sec. 17

Douglas County

Habitat: stream

Species collected: Carpiodes carpio (river carpsucker)
Micropterus salmoides (large mouth bass)
Lepomis macrochirus (bluegill)
Dorosoma cepedianum (bizzard shad)
Aplodinotus grunniens (drum)
Pimephales vigilax (bullhead minnow)

5-3-92

Mill creek South

T12S R10E sec. 3

Wabaunsee County

Habitat: Stream

Species collected: Etheostoma nigrum (Johnny darter) 4

Notropis topeka (topeka shiner) 4

Notropis cornutus (common shiner) 2

5-3-92

Mill creek north

T12S R10E sec 15 Hwy 99

Wabaunsee County

Habitat: Stream

Species collected: Notropis umbratilis (redfin shiner) 4

Noturus exilis (slender madtom) 2

2-3-99

Mill Creek North

1192 R10 E 26.3

Wabamoose County

Habitat: Stream

Species collected: Etheostoma nigrum (Johann darters) 4

Notropis tobi (Tobacco darters) 4

Notropis cornutus (Common darters) 9

2-3-99

Mill Creek North

1192 R10 E 26.3

Wabamoose County

Habitat: Stream

Species collected: Notropis cornutus (Common darters) 4

Notropis exilis (Slender darters) 9

5-3-92

Mill creek East

T12S R18E sec 31

Wabunsee County

Habitat: stream

species collected: Semotilus atromaculatus (creekchub) 1

5-3-92

Stall creek

T12S R18E sec. 31 Hwy #13

Douglas County

Habitat: stream

species collected: Lepomis cyanellus (greensunfish)

Collectors on all sites: Jeff Borchardt + class

2-3-87

Will Creek East

1192 618 E sec 31

Wapinitia County

Habitat: stream

Species collected: Stenotriton (presumably)

2-3-87

Will Creek

1192 618 E sec 31 NW 1/4

Douglas County

Habitat: stream

Species collected: Stenotriton (presumably)

Collectors on all sites: Jeff Borchardt + class

Missouri Jarl

Nocomis biguttatus

Phoxinus erythrogaster

Doros nubilus

Notropis boops

Notropis pilsbryi

Hybopsis amblops

Notropis telescopus

Notropis galacturus

Hybopsis dissimilis

Notropis zonatus

Nocomis asper

Campostoma oligolepis

Notropis rubellus

Pimephales tenellus

Noturus albert

Lepomis macrochirus

Percina caprodes

Etheostoma caeruleum

Etheostoma cragini

Etheostoma microperca

Fundulus catenatus

Gambusia affinis

Fundulus olivaceus

Labidesthes sicculus

Cottus bairdi

Cottus caroliniae

Salmo gairdneri

Etheostoma flabellare

Esoc. americanus

Cottus carolinus

Cottus bairdi

Lepistes siculus

Lepistes olivaceus

Campostoma affinis

Pseudocottus catenatus

Etheostomus microperca

Etheostomus caeruleum

Pomoxis carolinus

Lepomis macrochirus

Noturus elongatus

Pinetius tenuis

Noturus carolinus

Campostoma oligolepis

Noturus asper

Noturus anogenus

Noturus dissimilis

Noturus palcatum

Noturus telescopus

Hyporhamphus

Noturus gibbosus

Noturus poeyi

Noturus poeyi

Noturus poeyi

Noturus poeyi

Noturus poeyi

Noturus poeyi

Esox americanus

Etheostomus flabellum

Salmo gairdneri

Kansas 1: Jar 2

Pomoxis annularis

Notropis atherinoides

Carpiopes carpio

Ictalurus punctatus

Lepomis humilis

Phenacobius mirabilis

Notropis stramineus

Aplodinotus grunniens

Lepomis megalotis

Notropis lutrensis

Micropterus salmoides

Pomoxis nigromaculatus

Scardinius erythrogaster

Lepomis cyanellus

Notropis atherinoides

Noturus exilis

Percina maculata

Pimephales vigilax

Etheostoma nigrum

Maxostomus duquesnei

Notropis topeka

Pimephales notatus

species released: Lepisosteus osseus

Cyprinus carpio

Cyprinus carpio
species released: Lepidostomus osseus

Bimaculatus notatus
Notropis toxotis
Macrostomus quadrispinus
Epiplatys spilargenteus
Pimelodus nigricans
Percina maculata
Notemurus exilis
Notropis atherinoides
Lebistes reticulatus
Scaphiopus cryptopus
Pomoxis nigromaculatus
Micropterus salmoides
Notropis luteus
Lebistes reticulatus
Aplodinotus grunniens
Notropis strimmarum
Pseudocypselus microdon
Lebistes reticulatus
Ictalurus punctatus
Carpiodes carpio
Notropis atherinoides
Pomoxis ananias

Released: Jan 9

species in Kevin Asbury collection:

Lepomis microlophus

Etheostoma cragini ~ picture

Species in Chad Holts collection:

Noemis asper

Morone saxatilis

Percing maculata

Pimephales notatus

Pomoxis nigromaculatus

species in David Jenkins collection:

Notemigonus crysoleucas

species in Museum!

Notropis chrysoleucas

Etheostoma puzonum

Species in Kevin Asbury collection:

Leptocarpus microlophus

Ethiostoma clausi - picture

Species in Chad Polk's collection:

Neocarpus asper

Phoradendron sordidum

Phoradendron maculatum

Phoradendron nigrum

Phoradendron nigrum

Species in David Jenkins' collection:

Phoradendron nigrum

Species in Museum:

Phoradendron nigrum

Ethiostoma clausi