Compilation and Revision of the Fish Records Published for Iowa

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COMPILATION AND REVISION OF THE FISH RECORDS PUBLISHED FOR IOWA

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For some time the writers have been very much interested in a study of the fishes of Iowa. On investigating the matter of fish lists of the state, it was found that they were very scattered and that no attempt had been made in the last thirty-five years to make them more compact. The nomenclature, in the meantime, had become quite confused and somewhat antiquated. The need for work on synonymy was very much in evidence also.

This article is an attempt to bring together into a compact form and revise all of the available published records for Iowa fish. The 1923 edition of Pratt's Manual of Vertebrates has been followed all the way through for the nomenclature. In the case of each species listed, there is given: name as in Pratt; common name, where known; each separate record of the fish with the date, scientific name as originally published, localities in which the species was found and the reference; the synonymy, if there be such and interpretations of any irregularities. Besides the actual recorded list there is included an hypothetical list of those species which might possibly occur in the state.

The method for collecting the information and preparing the material for such a list must be quite systematic and painstaking. First there was prepared a list of the species with a possible range over Iowa as given by Pratt. Then each of the known lists for the various parts of the state was carefully checked and recorded on the above list. A complete bibliography was prepared with all publication and page references. Locality records were laboriously searched out for each record of a species and listed with it. The species lists, locality records and bibliography were all transferred and kept in order on index cards in a file, thus becoming quite adaptable to any further additions or changes that might be found. Two identical card indexes were kept. On copying for this article, the two records were checked against each other, and against the original where necessary.

Any synonymy that is given has been traced through all of the available sources and given as found with the reference or refer-
ences. Interpretations which have been placed along with the handling of certain cases in the lists, include where possible, the references to show the logic of the procedure.

The recognized species and subspecies listed as actually recorded from Iowa, numbers one hundred twenty-seven. The hypothetical list as given includes twenty-one species and subspecies. There are, no doubt, other species in the state at the present and in all probability a number of those listed have ceased to exist here. A check on this point can be made only by collections and the preparation of up-to-date lists.

It can hardly be hoped that this list will prove to be entirely free from error, but many mistakes have been checked up and corrected from the existing lists. The writers feel that this effort has at least brought the records into a more useable form.

The authors wish to thank Prof. H. F. Wickham for the use of his personal copy of Osborn's article, which was otherwise unavailable, and Dr. F. A. Stromsten for the use of his personal library and for helpful suggestions concerning tabulating and condensing data.

The authors will appreciate constructive criticism from users of these lists. Reports of mistakes discovered in these lists, unrecorded published records with name of library or source from which records can be secured, new records published after the appearance of this article, and published records of introduction of exotic fish into Iowa waters, will be helpful in keeping our card indexes up to date. We can use no unpublished records of the occurrence of fish. Except in exceptional cases, only records where the scientific name is given can be used, as the common names vary with locality. Meek in 1894 reports that the log perch, Percina caprodes, was called "stickleback" in the vicinity of Waterloo,—a common name ordinarily accorded to Eucalia instans. Likewise Osborn reports the wall-eyed pike or pike-perch, Stizostedion vitreum, as the common "pike" of Spirit Lake, whereas Esox lucius is commonly regarded as entitled to that name. "Bullhead" might mean any one of the three species of Ameiurus found in the state or might be applied indiscriminately to the young of some of our catfish. The above information may be sent to Geo. E. Potter, Zoology Dept., University of Iowa, Iowa City, Iowa, or to David T. Jones, 818 E. Fifth St., Vinton, Iowa.

The reader will find that each reference in the list proper is given as a bibliographic number. Under the corresponding num-
ber in the bibliography, there is given the record of the date, man's name, title of the paper, publication, and page. By combing the list and the bibliography the reader may readily get the complete information from the original sources for any species listed. An attempt has been made to take the specific rather than the general localities where both are given, e.g. Mississippi River at Davenport, would be listed simply as Davenport. However, there still remains some overlapping of localities. Duplication of localities in different articles was avoided by listing the locality only where it was earliest reported, e.g., if a certain fish were listed in an 1890 report from Cedar Rapids, and in 1894 were listed from the same locality, the locality would be given only under the date 1890, although the 1894 reference without locality or with additional localities would be given. Austin, Minn., Sioux Falls, S. D., some Missouri border records, and one Mississippi River record from the Illinois side have been considered as worthy to rank as Iowa records.

The following abbreviations have been used in the lists.

Bibl.—bibliographic reference  p.—page
Cr.—creek pp.—pages
Miss.—Mississippi R.—river
Mo.—Missouri

The following may help to clear up some doubtful localities. Parentheses are ours.

Bear Cr.—a tributary of the Turkey R. (Probably the one near Elkport.)
Beaver Cr.—a small stream near Des Moines.
Brook R.—(not located).
Clear Lake—situated near the source of the Cedar and Iowa rivers, its outlet is a tributary of the Shellrock R.
College Cr.—a small creek near Ames.
Dry Cr.—a small tributary of the Cedar R. near Palo.
Delhi Cr.—(not found).
Four-Mile Cr.—a tributary of the Des Moines R.
Hickory Cr.—a southern tributary of the Yellow R. arising near Postville.
Indian Cr.—an eastern tributary to the Cedar (Linn Co.).
Lizard Cr.—a small stream near Ft. Dodge.
Mad Cr.—a small stream flowing through Muscatine and emptying into the Mississippi R.
Middle R.—a western tributary of the Des Moines.
Mill Cr.—a tributary of the Little Sioux and outlet of the Spirit Lake group.
Minnow Cr.—a small brook, flowing into Buffalo Cr., Wapsipinicon R.
System, near Anamosa.
North R.—a western tributary of the Des Moines.
Prairie Cr.—a western tributary to the Cedar.
Silver Lake—one of the sources of the Little Sioux R.
Springbrook—(Spring Branch near Manchester, Bibl. 19, pp. 218, 241; Spring Creek at Delhi, Bibl. 19, p. 240; “Bear Creek is a spring brook,” Bibl. 19, p. 241; the above are possibilities; locality not found).

Squaw Cr.—a tributary to the Skunk R.
Village Cr.—a small brook southwest of Ottumwa.
Walnut Cr.—a small stream near Des Moines.
Yader Cr.—a small creek in the Des Moines River system. (Not located.)

Yellow R.—a small stream of northeastern Iowa.

LIST OF FISHES RECORDED FROM IOWA

**Petromyzonidae**

Ichthyomyzon concolor (Kirtland)—Silver lamprey.
1888-90 As Petromyzon concolor Kirt.; Bibl. 17.
1890 As P. concolor (Kirt.); Miss R., Des Moines R., Iowa R. (S. U. I. Museum), Cedar R. (Coe College Museum); Bibl. 19.
1890-91 As P. concolor Kirt.; Des Moines; Bibl. 2.
1892 As P. concolor (Kirt.); Cedar R.; Bibl. 20.
1892 As P. castaneus (Girard); Bibl. 23.
I. concolor (Kirt.) = P. castaneus (Gir.) and P. concolor (Kirt.); Bibl. 6, p. 9; Bibl. 15, pp. 10 and 11.

Entosphenus appendix (DeKay)—Brook lamprey, small black lamprey.
1888-90 As Ammocoetes branchialis Linneus; Cedar Rapids; Bibl. 17.
1890 As A. branchialis (L.); Skunk R., Iowa R. (S. U. I. Museum); Bibl. 19.
1892 As A. branchialis (L.); Bibl. 20.
1892 As A. niger (Rafinesque) Jordan; Iowa City; Bibl. 22.
1892 As A. branchialis (L.); Ames, Lawler; Bibl. 23.
A. branchialis L. = A. niger (Raf.) = Lamptera wilderi J. and E. = Entosphenus appendix (DeK.); Bibl. 15, p. 10; Bibl. 6, p. 11.

**Polyodontidae**

Polyodon spathula (Walbaum)—Spoonbill, paddlefish.
1888-90 As P. spathula Walb.; Bibl. 17.
1889 As P. spathula Walb.; Cedar R., Iowa R., Mo. R., Miss. R.; Bibl. 18.
1890 As P. spathula (Walb.); Cedar Rapids (Coe College Museum), Sioux City, Mo. R., in Harrison Co.; Bibl. 19.
1892 As P. spathula (Walb.); Bibl. 20.
1892 As P. spathula (Walb.); Bibl. 23.

**Acipenseridae**

Acipenser rubicundus Le Sueur—Lake sturgeon, rock sturgeon, red sturgeon.
1888-90 As A. rubicundus Le S.; Miss. R; Bibl. 17.
1889 As A. rubicundus Le S.; Bibl. 18.
1890 As A. rubicundus Le S.; Bibl. 19.
1892 As A. rubicundus (Le S.); Iowa City; Bibl. 20.
1892 As Acipenser rubicundus; Bibl. 23.
Scaphirhynchus platyrhynchus (Rafinesque)—Shovel-nosed sturgeon.
1888-90 As S. platyrhynchus Raf.; Bibl. 17.
1890 As S. platyrhynchus (Raf.); Miss. R., Cedar R., Mo. R.; Bibl. 19.
1892 As S. platyrhynchus (Raf.) ; Bibl. 20.
1892 As *S. platyrhynchus* (Raf.); Bibl. 23.

*Lepisosteidae*

*Lepisosteus osseus* (Linnaeus)—Long-nosed garpike, billfish.

1888-90 As *Lepidosteus osseus* L.; Larger streams; Bibl. 17.

1890 As *Lepisosteus osseus* (L.); Muscatine, Davenport, Raccoon R., Des Moines, Adel, Iowa City (S. U. I. Museum), Cedar Rapids, Wheatland, Wapsipinicon R.; Bibl. 19.

1890-91 As *Lepidosteus osseus* L.; Bibl. 2.

1892 As *Lepidosteus osseus* (L.); Bibl. 20.

1892 As *Lepidosteus osseus* (L.); Bibl. 23.

1894 As *Lepisosteus osseus* L.; Spirit Lake; Bibl. 21.

*Lepisosteus Lacépède = Lepidosteus Agassiz*; Bibl. 26, p. 32.

*Lepisosteus platostomus* Rafinesque—Short-nosed garpike.

1888-90 As *Lepidosteus platystomus* Raf.; Miss. Valley; Bibl. 17.

1890 As *Lepisosteus platystomus* Raf.; Miss R.; Bibl. 19.

1892 As *Lepidosteus platystomus* (Raf.); Cedar Rapids; Bibl. 20.

1892 As *Lepidosteus platystomus* Raf.; Southwest Iowa; Bibl. 23.

1926 As *Lepidosteus platystomus*; Okoboji Lakes Dickinson Co.; Bibl. 25.

*Amiidae*

*Amia calva* Linnaeus—dogfish, bowfin, mudfish, grindle.

1888-90 As *A. calva* L.; Bibl. 17.

1890 As *A. calva* L.; Miss. R., Iowa City, Amana, Cedar R.; Bibl. 19.

1892 As *A. calva* (L.); Bibl. 20.

1892 As *A. calva* L.; Bibl. 23.

*Hiodontidae*

*Hiodon alosoides* (Rafinesque)—Northern mooneye.

1890 As *H. alosoides* (Raf.); Sioux City; Bibl. 19.

1892 As *H. alosoides* (Raf.); Bibl. 20.

1894 As *H. alosoides* (Raf.); Bibl. 21.

*Hiodon tergisius* Le Sueur—Mooneye, silver bass, toothed herring.

1890 As *H. tergisius* Le S.; Cedar Rapids; Bibl. 19.

1892 As *H. tergisius* (Le S.); Bibl. 20.

1892 As *H. tergisius* Le S.; Bibl. 23.

*Dorosomidae*

*Dorosoma cepedianum* (Le Sueur)—Gizzard shad, mud shad, hickory shad.

1890 As *D. cepedianum* (Le S.); Miss. R., Davenport, Palo (Cedar R.), Sioux City; Bibl. 19.

1892 As *D. cepedianum* (Le S.); Bibl. 20.

1892 As *D. cepedianum* (Le S.); Bibl. 23.

1894 As *D. cepedianum* (Le S.); Bibl. 21.

*Clupeidae*

*Pomolobus chrysochloris* Rafinesque—Skipjack, golden shad, blue herring.

1890 As *Clupea chrysochloris* Raf.; Muscatine, Davenport; Bibl. 19.

1892 As *C. chrysochloris* (Raf.); Cedar Rapids; Bibl. 20.

1892 As *C. chrysochloris* Raf.; Bibl. 23.

*Salmonidae*

*Salvelinus fontinalis* (Mitchill)—Brook trout, speckled trout.
1889 As *S. fontinalis* Mit.; Mad Cr., Muscatine, Mt. Vernon (Cedar R.); Bibl. 18.
1890 As *S. fontinalis* (Mit.); McCloud Run, Cedar Rapids; Bibl. 19.
1892 As *S. fontinalis* (Mit.); (Introduced by State Commissioner Shaw); Bibl. 20.
1892 As *S. fontinalis* (Mit.); Spring Brook; Bibl. 23.

**Anguillidae**
Anguilla chrysopa Rafinesque—Freshwater eel.
1889 As Anguilla rostrata Le Sueur; Bibl. 18.
1890 As *A. chrysopa* (Raf.); Raccoon R., Des Moines R., Adel, Iowa R., Cedar R., Cedar Rapids, Waterloo, (Some introduced at Cedar Rapids); Bibl. 19.
1890-91 As *A. anguilla* var. rostrata Le S.; Des Moines; Bibl. 2.
1892 As *A. crysypha* (Raf.); Bibl. 20.
1892 As *A. anguilla* Linn.; Shell Rock; Bibl. 23.

**Catostomidae**
Ictiobus cyprinella (Cuvier and Valenciennes)—Buffalo, big-mouth buffalo.
1888-90 As *I. cyprinella* C. & V.; Miss. Valley; Bibl. 17.
1889 As *I. cyprinella* C. & V.; Bibl. 18.
1890 As *I. cyprinella* (C. & V.); Miss. R., Squaw Cr., Wheatland, Independence, Anamosa; Bibl. 19.
1892 As *I. cyprinella* (C. & V.); Bibl. 20.
1892 As *I. cyprinella* (C. & V.); Bibl. 23.
1913 As Amblodon (= *Ictiobus* Raf. See p. 45 in the article) cyprinella (Valenciennes); Bibl. 9.
Ictiobus urus (Agassiz)—Black buffalo, mongrel, buffalo, round buffalo.
1888-90 As *I. urus* Ag.; Miss. Valley; Bibl. 17.
1889 As *I. urus* Ag.; Bibl. 18.
1890 As *I. urus* (Ag.); Miss. R.; Bibl. 19.
1892 As *I. urus* (Ag.); Bibl. 20.
1892 As *I. urus* (Ag.); Bibl. 23.
Ictiobus bubalus (Rafinesque)—Small-mouthed buffalo, quillback buffalo, razor-backed buffalo.
1888-90 As *I. bubalus* Raf.; Miss. Valley; Bibl. 17.
1889 As *I. bubalus* Raf.; Miss. R.; Bibl. 18.
1890 As *I. bubalus* (Raf.); Bibl. 19.
1892 As *I. bubalus* (Raf.); Doubtful identity in Cedar R.; Bibl. 20, p. 108 footnote.
1892 As *I. bubalus* (Raf.); Bibl. 23.
1894 As *I. bubalus* (Raf.); Sioux City, East Okoboji Lake; Bibl. 21.
Carpiodes difformis Cope—Blunt-nosed river carp.
1890-91 As *I. difformis* Cope questioned occurrence; Middle R., Warren Co.; Bibl. 2.
Carpiodes velifer (Rafinesque)—Quillback, Silver carp.
1885 As *Ictiobus* velifer Raf.; Ottumwa, Hundred and Two R.; Bibl. 14.
1890 As *C. velifer* (Raf.); Muscatine, Davenport, Lizard Cr., Des Moines, Perry, Ft. Dodge, Beaver Cr., Walnut Cr., Adel, Squaw Cr., Iowa City,
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Amana, Cedar Rapids, Prairie Cr., Austin (Minn.), Dumont, Indian Cr., West Liberty, Waverly, Wheatland, Independence, Anamosa, Sioux City; Bibl. 19.
1890-91 As I. velifer Raf.; Middle R., North R.; Bibl. 2.
1892 As C. velifer (Raf.); Bibl. 20.
1892 As I. velifer Raf.; Bibl. 23.
Cyprinella elongatus (Le Sueur)—Blackhorse, Missouri sucker.
1888-90 As C. elongatus Le S.; Miss. Valley; Bibl. 17.
1889 As C. elongatus Le S.; Bibl. 18.
1890 As C. elongatus (Le S.); Miss. R.; Bibl. 19.
1892 As C. elongatus (Le S.); Bibl. 20, p. 108 footnote.
1892 As Cyprinella elongatus; Bibl. 23.
Catostomus commersoni (Lacépède)—Sucker, fine-scaled sucker.
1885 As C. teres Mitchell; Chariton, Hundred and Two R.; Bibl. 14.
1888-90 As C. teres Mit.; Bibl. 17.
1889 As C. teres Mit.; Bibl. 18.
1890 As C. teres Mit.; Miss. R., Des Moines, Raccoon R., Ft. Dodge, Estherville, Walnut Cr., Beaver Cr., Lizard Cr., Perry, Middle R., Adel, North R., Squaw Cr., Skunk R., Belmond, Amana, Iowa City, Dry Cr., Prairie Cr., Cedar Rapids, Waverly, Dumont, Austin (Minn.), Indian Cr., West Liberty, Cedar R. at Palo, Wheatland, Anamosa, Hopkinton, Worthington, Delhi, Manchester, Elkport, Bear Cr., Ft. Atkinson, Upper Iowa R., Sioux City, Boyer R.; Bibl. 19.
1890-91 As C. teres Mitchell; Bibl. 2.
1892 As C. teres Mitchell; Bibl. 20.
1892 As C. teres Mitchell; Bibl. 23.
1894 As C. teres Mit.; Lemars, Sioux City; Bibl. 21.
1913 As C. commersonii (Lac.); Brook R., Fayette; Bibl. 9.
C. teres (Mit.) = C. commersoni (Lac.); Bibl. 6, p. 85, and Bibl. 15, p. 46.
Catostomus nigricans Le Sueur—Hog sucker, hogmolly.
1888-90 As C. nigricans Le S.; Bibl. 17.
1890 As C. nigricans Le S.; Perry, Ft. Dodge, Beaver Cr., Des Moines, Raccoon R., Adel, Middle R., Skunk R., Squaw Cr., Belmond, Dry Cr. at Palo, Dumont, Austin (Minn.), Waverly, Cedar Rapids, Prairie Cr., Indian Cr., Mt. Vernon, Independence, Anamosa, Hopkinton, Manchester, Elkport, Bear Cr., Ft. Atkinson, Fayette; Bibl. 19.
1890-91 As C. nigricans Le S.; Bibl. 2.
1892 As C. nigricans (Le S.); Cedar R.; Bibl. 20.
1892 As C. nigricans Le S.; Bibl. 23.
1894 As C. nigricans Le S.; Waterloo; Bibl. 21.
1913 As C. nigricans Le S.; Brook R.; Bibl. 9.
Erimyzon sucetta (Lacépède)—Chub sucker.
1888-90 As E. sucetta Lac.; Bibl. 17.
1889 As E. sucetta Lac.; Bibl. 18.
1890 As E. sucetta Lac.; West Liberty; Bibl. 19.
1892 As E. sucetta (Lac.); Bibl. 20.
1892 As E. sucetta Lac.; Bibl. 23.
Minytrema melanops (Rafinesque)—Spotted sucker, striped sucker.
1888-90 As M. melanops Raf.; Squaw Cr., Miss. R., Ames; Bibl. 17.
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1889 As M. melanops Jordan (Probably should have been Rafinesque); Muscatine; Bibl. 18.
1890 As M. melanops (Raf.); Skunk R., Amana, Cedar R.; Bibl. 19.
1892 As Minytremia melanops (Raf.); Bibl. 20.
1892 As Minytremia melanops Raf.; Cedar Rapids; Bibl. 23.

Moxostoma anisurum (Rafinesque)—Whitenose.
1890 As M. anisurum (Le Sueur) (Probably should have been Rafinesque); Lizard Cr., Ft. Dodge; Bibl. 19.
1892 As M. anisurum (Raf.); Cedar R. from Austin (Minn.) to Waverly; Bibl. 20.
1892 As M. anisurum (Raf. (?)); Bibl. 23.

Moxostoma aureolum (Le Sueur)—Redhorse.
1885 As M. macrolepidotum duquesneii Le S.; Des Moines R., Ottumwa; Bibl. 14.
1890 As M. aureolum (Le S.); Skunk R.; Bibl. 19.
1890-91 As M. aureolum Le S.; Lizard Cr.; Ft. Dodge; Bibl. 2.
1892 As M. aureolum (Le S.); Bibl. 20, p. 108 footnote.
1892 As M. aureolum (Le S.); Ames; Bibl. 23.
1913 As M. erythrurum (Raf.); (Most specimens previously recorded as M. aureolum); Bibl. 9. See also under Placopharynx duquesnei (Le Sueur).

M. macrolepidotum duquesnii = M. aureolum in this article; Bibl. 3, p. 362.

Placopharynx duquesnei (Le Sueur)—Big-jawed sucker.
1888-90 As Moxostoma duquesnei Le S.; Bibl. 17.
1889 As M. duquesnei Le S.; Bibl. 18.
1890 As M. duquesnei (Le S.); Miss. R., Lizard Cr., Perry, Des Moines, Estherville, Racoon R., Ft. Dodge, Beaver Cr., Middle R., Adel, Squaw Cr., Skunk R., Belmond, Iowa City, Amana, West Liberty, Cedar Rapids, Prairie Cr., Palo, Waverly, Dumont, Austin (Minn.), Wheatland, Independence, Anamosa, Hopkinson, Worthington, Manchester, Elkport, Ft. Atkinson, Fayette, Chester, Sioux City, Sioux Falls (S. D.); Bibl. 19.
1890 As Placopharynx carinatus Cope; Bibl. 19.
1890-91 As Moxostoma duquesnei Le S.; Bibl. 2.
1890-91 As Placopharynx carinatus Cope; Bibl. 2.
1892 As P. carinatus (Cope); Bibl. 20, p. 108 footnote.
1892 As Moxostoma duquesnei Le S.; Cedar R.; Bibl. 20.
1892 As [M. microlepidota (Le S.) Jordan]; Bibl. 22. We place this form under P. duquesnei as suggested in the author's footnote; Bibl. 22, p. 42.
1892 As M. duquesnei Le S.; Bibl. 23.
1892 As P. carinatus Cope; Bibl. 23.
1894 As Moxostoma macrolepidotum duquesnei (Le S.); Lemars, Waterloo; Bibl. 21.
1894 As P. carinatus Cope; Bibl. 21.
1913 As P. carinatus Cope; Cherokee; Bibl. 9.
Placopharynx carinatus Cope = Placopharynx duquesnei (Le S.); Bibl. 6, p. 93 and Bibl. 15, p. 48. There has been some confusion and apparently mixing Moxostoma aureolum (Le S.) and Placopharynx du-
quesnei (Le S.). For purpose of record we do not attempt to rehash the questions of synonymy, but list as originally published.

**Cyprinidae**

*Campostoma anomalum* (Rafinesque) — Stone roller, dough-belly.

1854 As *Chondrostoma pullum* Agassiz; Burlington; Bibl. 1, p. 357 footnote. [Placed here by authority of Bibl. 16.]

1885 As *Campostoma anomalum* Raf.; Village Cr., Ottumwa; Bibl. 14.

1890 As *C. anomalum* (Raf.); Raccoon R., Lizard Cr., Beaver Cr., Walnut Cr., Des Moines, Ft. Dodge, Perry, Four-mile Cr., Adel, North R., Middle R., Skunk R., Squaw Cr., Iowa City, Amana, Belmond, West Liberty, Prairie Cr., Indian Cr., Palo, Waverly, Dumont, Austin (Minn.), Hopkinton, Delhi, Worthington, Manchester, Elkport, Bear Cr., Ft. Atkinson, Fayette, Yellow R., Hickory Cr., Upper Iowa R.; Bibl. 19.

1890-91 As *C. anomalum* Raf.; Bibl. 2.

1892 As *C. anomalum* (Raf.); Cedar R.; Bibl. 20.

1892 As *C. anomalum* Raf.; Bibl. 23.

1894 As *C. anomalum* (Raf.); Sioux City, Ames, Waterloo; Bibl. 21.

1919 As *C. anomalum* Raf.; Cedar Falls; Bibl. 24.

*Chrosomus erythrogaster* Rafinesque — Red-bellied dace.

1890 As *C. erythrogaster* Raf.; Walnut Cr., Ames, Belmond, Mt. Vernon, Palo, Dry Cr., Waverly, Austin (Minn.), Worthington, Delhi, Manchester (Spring brook), Bear Cr., Yellow R., Hickory Cr.; Bibl. 19.

1890-91 As *C. erythrogaster* Raf.; Bibl. 2.

1892 As *C. erythrogaster* (Raf.); Cedar R.; Bibl. 20.

1892 As *C. erythrogaster* Raf.; Bibl. 23.

*Hybognathus nuchalis* Agassiz — Silvery minnow.

1885 As *H. nuchalis* Ag.; Ottumwa, Hundred and Two R.; Bibl. 14.

1890 As *H. nuchalis* Ag.; Raccoon R., Perry, Beaver Cr., Walnut Cr., Des Moines, Ft. Dodge, Lizard Cr., Adel, Squaw Cr., Skunk R., Amana, Prairie Cr., Indian Cr., Dumont, Waverly, Wheatland, Independence, Delhi, Sioux City, Soldier R.; Bibl. 19.

1890 As *H. nuchalis placita* (Girard); Adel, Raccoon R.; Bibl. 19.

1890-91 As *H. nuchalis* Ag.; Ames; Bibl. 2.

1892 As *H. nuchalis* Ag.; Cedar R.; Bibl. 20.

1892 As *H. nuchalis placita* Girard; Des Moines R.; Bibl. 20, p. 109 footnote.

1892 As *H. nuchalis* Ag.; Bibl. 23.

1892 As *H. nuchalis placita* Girard; Bibl. 23.

1894 As *H. nuchalis* Ag.; Lemars; Bibl. 21.

*Hybognathus nubila* (Forbes).

1890 As *H. nubila* (Forbes); Waverly, Belmond, Austin (Minn.), Amana, Fayette; Bibl. 19.

1892 As *H. nubila* (Forbes); Bibl. 20.

1892 As *H. nubila* (Forbes); Bibl. 23.

*Pimephales promelas* Rafinesque — Fathead.

1885 As *P. promelas* Raf.; Village Cr. at Ottumwa, Chariton, Hundred and Two R.; Bibl. 14.

1890 As *P. promelas* Raf.; Beaver Cr., Raccoon R., Walnut Cr., Des

1890-91 As P. promelas Raf.; Bibl. 2.
1892 As P. promelas Raf.; Cedar R.; Bibl. 20.
1892 As P. promelas Raf.; Bibl. 23.
1894 As P. promelas Raf.; Sioux City, Lemars, College Cr. at Ames, Storm Lake; Bibl. 21.
1919 As P. promelas Raf.; Cedar Falls; Bibl. 24.

Pimephales notatus (Rafinesque) — Blunt nose.

1885 As P. notatus Raf.; Ottumwa, Hundred and Two R.; Bibl. 14.
1890 As P. notatus (Raf.) ; Miss R., Beaver Cr., Ft. Dodge, Des Moines, Estherville, Perry, Raccoon R., Lizard Cr., Walnut Cr., Adel, Middle R., Four-mile Cr., North R., Skunk R., Squaw Cr., Amana, Iowa City, Belmond, Indian Cr., West Liberty, Cedar Rapids, Prairie Cr., Palo, Dry Cr., Waverly, Dumont, Austin (Minn.), Cedar R. at Palo, Clear Lake, Anamosa, Wheatland, Independence, Hopkinton, Worthington, Delhi, Manchester, Yellow R., Elkport, Ft. Atkinson, Fayette, Bear Cr., Upper Iowa R., Sioux City, Sioux Falls (S. D.), Silver Lake; Bibl. 19.

1890-91 As P. notatus Raf.; Bibl. 2.
1892 As P. notatus (Raf.); Bibl. 20.
1892 As P. notatus Raf.; Bibl. 23.
1894 As P. notatus (Raf.); Lemars, Ames, Storm Lake; Bibl. 21.
1919 As P. notatus Raf.; Cedar Falls; Bibl. 24.

Semotilus atromaculatus (Mitchell) — Horned dace, chub.

1885 As S. atromaculatus Mit.; Chariton, Hundred and Two R.; Bibl. 14.
1890 As S. atromaculatus (Mit.); Miss. R., Raccoon R., Beaver Cr., Walnut Cr., Des Moines, Estherville, Perry, Adel, Lizard Cr., North R., Ames, Indian Cr., West Liberty, Palo, Dumont, Mt. Vernon, Cedar Rapids, Hopkinton, Worthington, Delhi, Manchester, Bear Cr., Ft. Atkinson, Fayette, Hickory Cr., Yellow R., Soldier R., Boyer R.; Bibl. 19.

1890-91 As S. atromaculatus Mit.; Bibl. 2.
1892 As S. atromaculatus (Mit.); Bibl. 20.
1892 As S. atromaculatus Mit.; Bibl. 23.
1894 As S. atromaculatus (Mit.); Sioux City; Bibl. 21.
1896 As S. atromaculatus (Mit.); Bibl. 3.
1919 As S. atromaculatus Mit.; Cedar Falls; Bibl. 24.
1924 As S. atromaculatus (Mit.); Delhi Cr.; Ottumwa; Bibl. 12.

Leuciscus elongatus (Kirtland) — Shiner.

1890 As L. elongatus (Kirt.); (Doubtful identification), Palo, Yellow R.; Bibl. 19.
1892 As Phoxinus elongatus (Kirt.); (Doubtful identification); Bibl. 20.
1892 As Phoxinus elongatus (Kirt.); northeastern Iowa; Bibl. 23.

Abramis crysoleucas (Mitchill) — Golden shiner, roach, bream.

1890 As Notemigonus crysoleucus (Mit.); Davenport, Estherville, Des
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Moines, Perry, Beaver Cr., Skunk R., Squaw Cr., Indian Cr., West Liberty, Waverly, Palo, Dumont, Cedar Rapids, Wheatland, Independence, Anamosa, Hopkinton, Manchester, Sioux City, Silver Lake; Bibl. 19.

1890-91 As N. chrysoleucus Mit.; Bibl. 2.
1892 As N. chrysolocus (Mit.); Cedar R.; Bibl. 20.
1892 As Notemigenus chrysoleucus (Mit.); Bibl. 23.
1894 As Notemigenus chrysoleucus (Mit.); Ames, Storm Lake, Spirit Lake; Bibl. 21.
1924 As Abramis crysoleucas (Mit.); Maquoketa; Bibl. 12.

Cliola vigilax (Baird and Girard) — Bullhead minnow.
1885 As C. vigilax B. and G.; Ottumwa; Bibl. 14.
1890 As C. vigilax (B. and G.); Mad Cr., Davenport, Walnut Cr., Des Moines, Perry, Raccoon R., Beaver Cr., Estherville, Middle R., Adel, Skunk R., Iowa City, Palo, Cedar Rapids, Wheatland, Upper Iowa R.; Bibl. 19.

1890-91 As C. vigilax (B. and G.); Bibl. 2.
1892 As C. vigilax (B. and G.); Bibl. 20.
1892 As C. vigilax (B. and G.); Bibl. 23.
1894 As C. vigilax B. and G.; Waterloo; Bibl. 21.
1924 As Ceratichthys vigilax (B. and G.); Amana; Bibl. 12.

[Cliola forbesi Jordan]. See note under Notropis lutrensis.
Notropis anogenus Forbes.
1890 As N. anogenus Forbes; Eastern Iowa; Bibl. 23.
[1890 As N. anogenus Forbes; Austin (Minn.); Bibl. 19.]
[1892 As N. anogenus (Forbes); Bibl. 20.]

Notropis cayuga Meek.
1890 As N. cayuga Meek; Estherville, Beaver Cr., Lizard Cr., Adel, Skunk R., Squaw Cr., Belmond, Indian Cr., Waverly, Austin (Minn.), Dumont, Prairie Cr., West Liberty, Wheatland, Hopkinton, Sioux City; Bibl. 19.

1890-91 As N. cayuga Meek; Raccoon R.; Bibl. 2.
1892 As N. cayuga (Meek); Cedar R.; Bibl. 20.
1892 As N. cayuga Meek; Bibl. 23.
1894 As N. cayuga Meek; Storm Lake, Ames, Lemars; Bibl. 21.
1896 As N. cayuga Meek; Bibl. 3.
1910 As N. cayuga Meek; Silver Lake, Brook R.; Bibl. 8.

Notropis heterodon (Cope).
1890 As N. heterodon (Cope); Estherville, Skunk R., Iowa R., West Liberty, Cedar Rapids, Dumont, Waverly, Manchester, Bear Cr., Fayette, Silver Lake; Bibl. 19.
1892 As N. heterodon (Cope); Cedar R.; Bibl. 20.
1892 As N. heterodon Cope; Bibl. 23.
1894 As N. heterodon (Cope); Storm Lake, Ames; Bibl. 21.

Notropis blennius (Girard) — Straw-colored minnow.
1854 As (?) Hybopsis dorsalis Agassiz; Burlington (unidentifiable); Bibl. 1, p. 358 footnote and Bibl. 16, part I, p. 262 footnote.
1885 As N. deliciosus Gir.; Hundred and Two R., Ottumwa, Chariton; Bibl. 14.
1890 As N. deliciosus (Gir.); Mad Cr.; Iowa City, Amana, Indian Cr.,

1890-91 As N. deliciosus Gir.; Des Moines, Ft. Dodge, Raccoon R., Adel, Perry, Beaver Cr., Walnut Cr., Squaw Cr., Middle R.; Bibl. 2.

1892 As N. deliciosus (Gir.); Cedar R.; Bibl. 20.

1894 As N. deliciosus (Gir.); Sioux City, Lemars; Bibl. 21.

1896 As N. blennius (Gir.); Bibl. 3.

N. deliciosus (Gir.) = N. blennius (Gir.); Bibl. 6, p. 137 and Bibl. 15, p. 56.

Notropis topeka Gilbert.

1885 As N. topeka Gilb.; Bedford; Bibl. 14.

1890 As N. topeka Gilb.; Beaver Cr., Estherville, Lizard Cr.; Amana, Waverly, Shellrock, Sioux City, Boyer R.; Bibl. 19.

1892 As N. topeka (Gilb.); Bibl. 20.

1892 As N. topeka Gilb.; Bibl. 23.

1894 As N. topeka Gilb.; Lemars; Bibl. 21.

Notropis gilberti Jordan and Meek.

1885 As N. gilberti sp. nov.; Village Cr., Chariton; Bibl. 14.

1890 As N. gilberti (J. and M.); Mad Cr., Raccoon R., Beaver Cr., Walnut Cr., Des Moines, Lizard Cr., Ft. Dodge, Perry, Middle R., Adel, Four-mile Cr., North R., Skunk R., Squaw Cr., Iowa City, Belmont, Amana, Palo, Waverly, Dumont, Cedar Rapids, Prairie Cr., West Liberty, Wheatland, Independence, Anamosa, Hopkinton, Worthington, Delhi, Manchester, Elkport, Ft. Atkinson, Fayette, Soldier R., Boyer R.; Bibl. 19.

1890-91 As N. gilberti J. and M.; Bibl. 2.

1892 As N. gilberti (J. and M.); Cedar R.; Bibl. 20.

1892 As N. gilberti J. and M.; Bibl. 23.

1894 As N. gilberti J. and M.; Sioux City, Lemars; Bibl. 21.

1919 As N. gilberti J. and M.; Cedar Falls; Bibl. 24.

Notropis shumardi (Girard).

1892 As N. boops (Gilbert); Southwest Iowa; Bibl. 20, p. 109 footnote.

1892 As N. boops Gilbert; Southern Iowa; Bibl. 23.

N. boops Gilb. = N. shumardi (Gir.) = N. illecebrosus (Gir.); Bibl. 6, p. 140; Bibl. 3, p. 373 and Bibl. 15, p. 57.

The old N. boops Gilb. is split up and N. illecebrosus (Gir.) and N. shumardi (Gir.) seem to have become heirs to its former possessions.

Notropis hudsonius (Dewitt Clinton) — Spot-tail shiner.

1890 As N. hudsonius (De. C.); Clear Lake, Spirit Lake, Okoboji Lakes, Sioux City; Bibl. 19.

1892 As N. hudsonius (Dewit C.); Bibl. 20, p. 109 footnote.

1892 As N. hudsonius (Dewitt C.); Little Sioux R.; Bibl. 23.

1894 As N. hudsonius (Dewitt C.); Bibl. 21.

N. lutrensis (Baird and Girard) — Redfin.

1885 As N. lutrensis B. and G.; Chariton, Hundred and Two R.; Bibl. 14.

1890 As N. lutrensis (B. and G.); Des Moines R., Boyer R.; Bibl. 19.

1892 As N. lutrensis (B. and G.); Bibl. 20, p. 109 footnote.

1892 As Chiola forbesi Jordan; (S. U. I. Museum); Bibl. 22.

1892 As N. lutrensis (B. and G.); Bibl. 23.
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1894 As N. lutrensis B. and G.; Sioux City, Lemars, (Des Moines supposed by Meek to be its eastern limit); Bibl. 21.

N. lutrensis (B. and G.) previously listed as Ciliola forbesi; Bibl. 6, p. 143.


Notropis whipplei (Girard) — Silver-fin, lemon-fin.

1885 As N. whipplei Gir.; Ottumwa; Bibl. 14.

1890 As N. whipplei (Gir.); Miss. R., Estherville, Lizard Cr., Ft. Dodge, Raccoon R., Beaver Cr., Walnut Cr., Des Moines, Perry, Middle R., Adel, North R., Yader Cr., Skunk R., Squaw Cr., Amana, Iowa City, West Liberty, Prairie Cr., Cedar Rapids, Waverly, Dumont, Wheatland, Independence, Anamosa, Hopkinton, Manchester, Elkport, Decorah, Sioux City; Bibl. 19.

1890-91 As N. whipplei (Gir.); Bibl. 2.

1892 As N. whipplei Gir.; Cedar R.; Bibl. 20.

1892 As N. whipplei (Gir.); Bibl. 23.

1894 As N. whipplei (Gir.); Storm Lake, Waterloo; Bibl. 21.

Notropis cornutus (Mitchill) — Shiner, redfin, dace.

1885 As N. megalops Raf.; Village Cr., Chariton R., Hundred and Two R.; Bibl. 14.

1890 As N. megalops (Raf.); Beaver Cr., Walnut Cr., Lizard Cr., Perry, Des Moines, Raccoon R., Estherville, Ft. Dodge, Four-mile Cr., Adel, North R., Middle R., Skunk R., Squaw Cr., West Liberty, Waverly, Palo, Dumont, Indian Cr., Prairie Cr., Cedar Rapids, Anamosa, Hopkinton, Worthington, Delhi, Manchester, Upper Iowa R., Big Sioux R., Silver Lake; Bibl. 19.

1890-91 As N. megalops Raf.; Bibl. 2.

1892 As N. megalops (Raf.); Bibl. 20.

1892 As N. megalops (Raf.); Bibl. 23.

1894 As N. megalops (Raf.); Ames, Lemars, Sioux City; Bibl. 21.

N. megalops (Raf.) = N. cornutus (Mit.); Bibl. 6, p. 147 and Bibl. 15, p. 58.

Notropis jejunos (Forbes).

1890 As N. jejunos (Forbes); Davenport, Elkport, Cedar Rapids, Fayette; Bibl. 19.

1892 As N. jejunos (Forbes); Bibl. 20.

1892 As N. jejunos (Forbes); Bibl. 23.

Notropis atherinoides Rafinesque — Shiner.

1890 As N. atherinoides (Raf.); Iowa City, Waverly, Indian Cr., Cedar Rapids, Sioux City; Bibl. 19.

1892 As N. atherinoides (Raf.); Cedar R.; Bibl. 20.

1892 As N. atherinoides (Raf.); Bibl. 23.

Notropis dilectus (Girard) — Emerald minnow.

Notropis rubrifrons (Cope) — Rosy-faced minnow.
1885 As N. rubrifrons Cope; Ottumwa, Chariton R.; Bibi. 14.
1890-91 As N. rubrifrons Cope; Squaw Cr.; Bibi. 2.

Call states that N. rubrifrons (Cope) is to be placed in the synonomy of N. ardens Cope; Bibi. 2.

Notropis umbratilis (Girard) — Redfin.
1890-91 As N. umbratilis Gir.; Middle R., Racoon R., Adel, Des Moines, Perry, Middle R., Walnut Cr., Beaver Cr.; Bibi. 2.

Notropis umbratilis umbratilis (Girard). 1896 As N. umbratilis umbratilis Gir.; Southwestern Iowa; Bibi. 16.

Notropis umbratilis atripes (Jordan) — Blackfin.
1890 As N. ardens (Cope); Ft. Dodge, Beaver Cr., Des Moines, Racoon R., Perry, Walnut Cr., Middle R., North R., Skunk R., Squaw Cr., Belmond, Indian Cr., Prairie Cr., Waverly, Palo, Austin (Minn.), Wheatland, Anamosa, Hopkinton, Worthington, Delhi, Manchester, Elkport, Ft. Atkinson, Upper Iowa R.; Bibi. 19.
1890-91 As N. ardens Cope; Bibi. 2.
1892 As N. ardens (Cope); Cedar R.; Bibi. 20.
1892 As N. ardens (Cope); N. umbratilis Jordan. [Records seem to be confused]; Bibi. 23.

N. ardens Cope probably is equivalent to N. umbratilis atripes (Jordan) for Iowa. The old species seemed to have three varieties; atripes, lythrurus and cyanocephalus. In splitting up the species, Pratt carries these over as subspecies of N. umbratilis. Bibi. 26, p. 84; Bibi. 6, p. 154 and Bibi. 15, p. 60.

Since N. ardens is split into three varieties and placed under N. umbratilis, we follow Bibi. 6 (Forbes and Richardson) in making it equivalent to N. umbratilis atripes (Jord.).

Phenacobius mirabilis (Girard) — Sucker-mouthed minnow.
1885 As P. mirabilis Gir.; Ottumwa, Hundred and Two R.; Bibi. 14.
1890 As P. mirabilis Gir.; Des Moines, Racoon R., Walnut Cr., Beaver Cr., Perry, Middle R., North R., Four-mile Cr., Amana, Iowa City, Indian Cr., West Liberty, Palo, Cedar Rapids, Boyer R.; Bibi. 19.
1890-91 As P. mirabilis Gir.; Squaw Cr.; Bibi. 2.
1892 As P. mirabilis (Gir.); Bibi. 20.
1892 As P. mirabilis (Gir.); Bibi. 23.

Rhinichthys cataractae (Cuvier and Valenciennes) — Long-nosed dace.
1890 As R. cataractae (C. and V.); Decorah; Bibi. 19.
1892 As R. cataractae (C. and V.); Upper Iowa R.; Bibi. 20, p. 109 footnote.
1892 As R. cataractae (C. and V.); Bibi. 23.

Rhinichthys atronasus (Mitchill) — Black-nosed dace.
1890 As R. atronasus (Mit.); Lizard Cr., Ft. Dodge, Walnut Cr., Beaver
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Cr., Palo, Mt. Vernon, Worthington, Delhi, Spring Branch, Bear Cr. of Turkey R., Hickory Cr., Upper Iowa R.; Bibl. 19.

1890-91 As Rhinicthys atronasus (Mit.); Bibl. 2.
1892 As Rhinicthys atronasus (Mit.); Bibl. 20.
1892 As Rhinicthys atronasus (Mit.); Bibl. 23.

[Rhinichthys atronasus meleagris (Agassiz)]
1854 As R. Meleagris Ag.; Burlington; Bibl. 1, p. 357 footnote.

Not recognized as a separate subspecies by Pratt. Distribution "Illinois and Iowa, perhaps indistinguishable from lunatus," Bibl. 16, p. 308. R. atronasus lunatus Cope is recognized by Pratt.

Hybopsis hyostomus (Gilbert).
1885 As H. hyostomus Gilb.; Ottumwa; Bibl. 14.
1892 As H. hyostomus Gilb.; Southwestern Iowa; Bibl. 20, p. 109 footnote.
1892 As Hybopsi hyostomus (Gilb.); Bibl. 23.

Hybopsis geldius (Girard).
1890 As H. gelidus (Gir.); Mo. R.; Bibl. 19.
1892 As H. gelidus (Gir.); Bibl. 20.
1892 As Hybopsi gelidus (Gir.); Bibl. 23.

Hybopsis dissimilis (Kirtland)—Spotted shiner.
1885 As H. dissimilis (Kirt.); Ottumwa; Bibl. 14.
1890 As H. dissimilis (Kirt.); Cedar Rapids, Waverly, Independence, Elkport; Bibl. 19.
1892 As Hybopsi dissimilis Kirt.; Bibl. 23.

Hybopsis storerianus (Kirtland)—Storer's chub.
1885 As H. storerianus Kirt.; Ottumwa; Bibl. 14.
1890 As H. storerianus (Kirt.); Mouth of Mad Cr., Davenport, Raccoon R., Des Moines, Perry, Middle R., Adel, Walnut Cr., Amana, Iowa City, Prairie Cr., Wheatland, Elkport; Bibl. 19.
1890-91 As H. storerianus (Kirt.); Bibl. 2.
1892 As H. storerianus (Kirt.); Cedar R.; Bibl. 20.
1892 As Hybopsi storerianus (Kirt.); Bibl. 23.
1894 As H. storerianus (Kirt.); Sioux City; Bibl. 21.

Hybopsis kentuckiensis (Rafinesque)—Horny head river chub, jerker.
1885 As H. biguttatus Kirtland; Ottumwa, Hundred and Two R.; Bibl. 14.
1890-91 As H. kentuckiensis Raf.; Bibl. 2.
1892 As H. kentuckiensis (Raf.); Cedar R.; Bibl. 20.
1892 As Hybopsi kentuckiensis (Raf.); Bibl. 23.


Couesius dissimilis (Girard).
1890 As C. dissimilis (Gir.); Belmond; Bibl. 19.
1892 As C. dissimilis (Gir.); Cedar R.; Bibl. 20.
1892 As C. dissimilis (Gir.); Bibl. 23.
Platygobio gracilis (Richardson) — Flatheaded chub.
1890 As P. gracilis (Rich.); Mo. R.; Bibl. 19.
1892 As Platygobio gracilis (Rich.); Bibl. 20, p. 109 footnote.
1892 As Platygobio gracilis (Rich.); Bibl. 23.

Ictalurus furcatus (Le Sueur) — Great forked-tail cat, blue cat, fulton cat.
1888-90 As I. furcatus Cuvier and Valenciennes; Miss. Valley; Bibl. 17.
1889 As I. furcatus (C. and V.); Bibl. 18.
1890 As I. furcatus (C. and V.); Mo. R.; Bibl. 19.
1892 As Ameiurus nigricans, doubtful occurrence; Cedar R.; Miss. R.; Bibl. 20, p. 108.
1892 As I. furcatus (C. and V.); Bibl. 20, p. 107, footnote.
1892 As I. furcatus (C. and V.); Western Iowa; Bibl. 23.
1892 As Ameiurus nigricans (Le S.); Bibl. 23.
I. furcatus (Le S.) = Ichthaeirus furcatus (C. and V.) = Ameiurus nigricans [part] (Le S.); Bibl. 6, p. 178 and Bibl. 13, p. 328, 329. A. nigricans Le S. probably is I. furcatus (Le S.); Bibl. 6, p. 184 footnote.

Ictalurus punctatus (Rafinesque) — Channel cat, spotted cat, fiddler.
1885 As I. punctatus Raf.; Ottumwa, Hundred and Two R.; Bibl. 14.
1888-90 As I. punctatus Raf.; Bibl. 17.
1889 As I. punctatus Raf.; Bibl. 18.
1890 As I. punctatus (Raf.); Muscatine, Davenport, Des Moines, Middle R., Raccoon R., Adel, Ft. Dodge, Lizard Cr., Perry, North R., Walnut Cr., Beaver Cr., Skunk R., Amana, Iowa City, Cedar Rapids, Palo, Wheatland, Mo. R., Sioux City; Bibl. 19.
1890-91 As I. punctatus Raf.; Bibl. 2.
1892 As I. punctatus (Raf.); Cedar R.; Bibl. 20.
1892 As I. punctatus (Raf.); Bibl. 23.
1915 As I. punctatus (Raf.); Hornick, Ottumwa; Bibl. 10.

Ameiurus natalis (Le Sueur) — Yellow cat.
1888-90 As A. natalis Le S.; Indian Cr.; Bibl. 17.
1889 As A. natalis Le S.; Marion; Bibl. 18.
1890 As A. natalis (Le S.); Bibl. 19.
1892 As A. natalis (Le S.); Cedar R.; Bibl. 20.
1892 As A. natalis Le S.; Bibl. 23.
1915 As A. natalis (Le S.); Brook R.; Bibl. 10.

Ameiurus nebulosus (Le Sueur) — Bullhead, horned pout.
1885 As A. nebulosus (Le S.); Ottumwa; Bibl. 14.
1888-90 As A. nebulosus Le S.; Bibl. 17.
1889 As A. nebulosus Le S.; Bibl. 18.
1890 As A. nebulosus (Le S.); Miss. R., Dry Cr., Palo, Dumont, Indian Cr., Austin (Minn.), Independence, Skunk R. (Ia. Agri. College Museum); Bibl. 19.
1892 As A. nebulosus (Le S.); Cedar R.; Bibl. 20.
1892 As A. nebulosus (Le S.); Bibl. 23.

Ameiurus melas (Rafinesque) — Black bullhead.
1885 As A. melas Raf.; Chariton, Hundred and Two R.; Bibl. 14.
1888-90 As A. melas Raf.; Bibl. 17.
1889 As A. melas Raf.; Bibl. 18.
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1890-91 As A. melas Raf.; Bibl. 2.

1892 As A. melas (Raf.); Cedar R.; Bibl. 20.

1892 As A. melas Raf.; Bibl. 23.

1894 As A. melas (Raf.); Lemars, Storm Lake, Spirit Lake; Bibl. 21.

1915 As A. melas (Raf.); Ottumwa, Silver Lake; Bibl. 10.

Leptops olivaris (Rafinesque) — Mud cat, goujon.

1888-90 As L. olivaris Raf.; Bibl. 17.

1889 As L. olivaris Raf.; Bibl. 18.

1890 As L. olivaris (Raf.); Miss. R., Cedar R.; Bibl. 19.

1892 As L. olivaris (Raf.); Bibl. 20.

1892 As L. olivaris (Raf.); Bibl. 23.

Noturus flavus Rafinesque — Stone cat.

1885 As N. flavus Raf.; Ottumwa, Hundred and Two R.; Bibl. 14.

1888-90 As N. flavus Raf.; Bibl. 17.

1890 As N. flavus (Raf.); Cedar Rapids, Mo. R., Sioux City, Sioux Falls (S. D.); Bibl. 19.

1892 As N. flavus (Raf.); Bibl. 20.

1892 As N. flavus (Raf.); Bibl. 23.

1915 As N. flavus Raf.; Chariton and Brook R.; Bibl. 10.

Schilbeodes gyrinus (Mitchell) — Mad-tom.

1885 As Noturus gyrinus Raf. (Probably mistake as to author); Chariton; Bibl. 14.

1888-90 As N. gyrinus Mit.; Bibl. 17.

1890 As N. gyrinus (Mit.); Miss. R., Estherville, Racoon R., Ft. Dodge, Des Moines, Skunk R., Squaw Cr., Belmond, Amana, West Liberty, Waverly, Dumont, Dry Cr., Indian Cr., Big Sioux R.; Bibl. 19.

1890-91 As N. gyrinus Mit.; Bibl. 2.

1892 As N. gyrinus (Mit.); Cedar R.; Bibl. 20.

1892 As N. Gyrinus (Mitchell); Bibl. 23.

1894 As N. gyrinus (Mitchell); Lemars, Sioux City, Storm Lake; Bibl. 21.

1915 As S. gyrinus (Mit.); Brook R.; Bibl. 10.

Schilbeodes exilis (E. W. Nelson).

1888-90 As Noturus exilis Nel.; Bibl. 17.

1890 As N. exilis Nel.; Skunk R. (Ia. Agri. College Museum), Perry; Bibl. 19.

1890-91 As N. exilis Nel.; Racoon R.; Bibl. 2.

1892 As N. exilis (Nel.); Des Moines R.; Bibl. 20.

1892 As N. exilis Nel.; Ames; Bibl. 23.

1915 As S. exilis (Nel.); Brook R.; Bibl. 10.

[Schilbeodes miurus (Jordan) (Doubtful record)].

1892 As Noturus miurus Jordan; Iowa (Not taken); Bibl. 23.

Umbridae

Umbra lima (Kirtland).

1890 As U. lima (Kirt.); Garner, Dumont; Bibl. 19.
As U. lima (Kirt.); Ponds along Cedar R.; Bibl. 20.

As Umbrilimi (Kirt.); Bibl. 23.

Esox lucius Linnaeus — Pike.

As E. lucius L.; Iowa Lakes; Bibl. 18.


As L. lucius (L.); Cedar R.; Bibl. 20.

As E. lucius L.; Bibl. 23.

As L. lucius (L.); Lemars, Sioux City, Storm Lake, East and West Okoboji Lakes, Spirit Lake; Bibl. 21.

As E. lucius L.; Hornick, Brook R.; Bibl. 11.

Esox masquinongy Mitchill — Muscalonge, muskallunge.

As E. nobilior Thompson; Miss. R., Skunk R.; Bibl. 18.

As Lucius masquinongy (Mit.); Bibl. 19.

As E. masquinongy Mit.; Skunk R. near Ames; Bibl. 2.

As L. masquinongy (Mit.); Bibl. 20.

As E. masquinongy (Mit.); Ames; Bibl. 23.

Esox masquinongy Mit. = Esox nobilior Th.; Bibl. 16, part 1, p. 629; Bibl. 4 and Bibl. 2, p. 52.

Esox vermiculatus Le Sueur — Grass pike, little pickerel.

As E. vermiculatus Le S.; Bibl. 18.

As Lucius vermiculatus (Le S.); Miss. R., Beaver Cr., Yader Cr., West Liberty, Palo, Cedar Rapids; Bibl. 19.

As E. vermiculatus Le S.; Bibl. 2.

As L. vermiculatus (Le S.); Bibl. 20.

As E. vermiculatus Le S.; Bibl. 23.

Fundulus zebrinus Jordan and Gilbert.

As F. zebrinus J. and G.; Ft. Dodge, Belmond, Dumont, Clear Lake, Sioux City, Silver Lake; Bibl. 19.

As F. zebrinus (J. and G.); Cedar basin; Bibl. 20.

As F. zebrinus J. and G.; Bibl. 23.

As F. zebrinus J. and G.; Storm Lake and East Okoboji Lake; Bibl. 21.

Fundulus macdonaldi (Meek).

As Zygonectes macdonaldi Meek; Western Iowa; Bibl. 23.

Fundulus sciadicus Cope.

As Zygonectes sciadicus (Cope); Le Mars; Bibl. 20, p. 110 footnote.

As Z. sciadicus (Cope); Bibl. 21.

Fundulus dispar (Agassiz).

As Zygonectes dispar Ag.; West Liberty; Bibl. 19.

As Z. dispar (Ag.); bayou at West Liberty; Bibl. 20.

As Z. dispar Ag.; Bibl. 23.

Fundulus notatus (Rafinesque) — Top minnow.

As Zygonectes notatus (Raf.); Raccoon R., Skunk R., Squaw Cr., Iowa City, Indian Cr., Cedar Rapids, Wheatland; Bibl. 19.
1890-91 As Z. notatus Raf.; Des Moines; Bibl. 2.
1892 As Z. notatus (Raf.); Bibl. 20.
1892 As Z. notatus (Raf.); Bibl. 23.

Gasterosteidae

Eucalia inconstans (Kirtland) — Brook stickleback.
1890 As E. inconstans (Kirt.); Waverly, Mt. Vernon, Hopkinton, Worthington, Manchester, Delphi, Ft. Atkinson, Hickory Cr., Chester; Bibl. 19.
1892 As E. inconstans (Kirt.); Small brooks of Cedar basin; Bibl. 20.
1892 As E. inconstans (Kirt.); Bibl. 23.
Some of those from Hickory Cr. are reported to be black.

Percopsidae

Percopsis guttatus Agassiz — Trout perch.
1890 As P. guttatus Ag.; Sioux City, Boyer R.; Bibl. 19.
1892 As P. guttatus (Ag.); tributaries of the Mo. R.; Bibl. 20, p. 110 footnote.
1892 As P. guttatus Ag.; Okoboji lakes, Cherokee; Bibl. 23.
1894 As P. guttatus Ag.; Lemars, East Okoboji, Mill Cr.; Bibl. 21.

Atherinidae

Labidesthes sicculus (Cope) — Brook silversides.
1890 As L. sicculus Cope; Mouth of Mad Cr., Davenport, Ft. Dodge, Raccoon R., Skunk R., Squaw Cr., West Liberty, Cedar Rapids, Waverly, Mt. Vernon, Indian Cr., Wheatland; Bibl. 19.
1890-91 As L. sicculus Cope; Des Moines, Adel; Bibl. 2.
1892 As L. sicculus (Cope); Bibl. 20.
1892 As L. sicculus Cope; Bibl. 23.

Centrarchidae

Pomoxis annularis Rafinesque — Crappie.
1885 As Pomoxys annularis Raf.; Ottumwa; Bibl. 14.
1889 As Pomoxis annularis Raf.; Bibl. 18.
1890 As P. annularis Raf.; Miss. R., Davenport, Raccoon R., Middle R., Amana, Cedar Rapids, Waverly, Des Moines, Wheatland; Bibl. 19.
1890-91 As Pomoxys annularis Raf.; Bibl. 2.
1892 As Pomoxys annularis (Raf.); Bibl. 20.
1892 As Pomoxis annularis Raf.; Southern Iowa; Bibl. 23.

Pomoxis sparoides (Lacépède) — Calico bass.
1889 As P. sparoides Lac.; near Muscatine; Bibl. 18.
1890 As P. sparoides (Lac.); Miss. R., Skunk R., Amana, Iowa City, West Liberty, Waverly, Cedar Rapids, Dumont, Palo, Indian Cr., Wheatland, Independence, Anamosa; Bibl. 19.
1892 As Pomoxys sparoides (Lac.); Bibl. 20.
1892 As Pomoxis sparoides (Lac.); Bibl. 23.
1894 As P. sparoides (Lac.); East Okoboji Lake; Bibl. 21.

[Acantharchus pomotis (Baird)] — Mud sunfish. A species restricted to Atlantic coastal streams according to Pratt.
1892 As A. promotis (Baird); Iowa City (S. U. I. Museum); Bibl. 22.

Ambloplites rupestris (Rafinesque) — Rock bass.
1889 As A. rupestris Raf.; Bibl. 18.

1890-91 As A. rupestris Raf.; Adel, Des Moines, Perry, Ft. Dodge, Estherville; Bibl. 2.

1892 As A. rupestris (Raf.); Bibl. 20.

1892 As A. rupestris Raf.; Bibl. 23.

1894 As A. rupestris (Raf.); Bibl. 21.

Chaenobryttus gulosus (Cuvier and Valenciennes) — Warmouth.

1889 As C. gulosus (C. and V.); Bibl. 18.

1890 As C. gulosus (C. and V.); Davenport, Amana, West Liberty, Cedar Rapids; Bibl. 19.

1892 As C. gulosus (C. and V.); Cedar R.; Bibl. 20.

1892 As C. gulosus (C. and V.); Southern Iowa; Bibl. 23.

Lepomis cyanellus Rafinesque — Green sunfish.

1885 As L. cyanellus Raf.; Ottumwa, Chariton, Hundred and Two R.; Bibl. 14.

1889 As L. cyanellus Raf.; Bibl. 18.


1890-91 As L. cyanellus Raf.; Bibl. 2.

1892 As L. cyanellus (Raf.); Bibl. 20.

1906 As L. cyanellus (Raf.); Bibl. 23.

1906 As L. cyanellus (Raf.); Lemars, Storm Lake; Bibl. 21.

Lepomis megalotis (Rafinesque) — Long-eared sunfish.

1889 As L. megalotis Raf.; Bibl. 18.

1890 As L. megalotis (Raf.); Miss. R., Estherville, Raccoon R., Beaver Cr.; Belmond, Dumont, Hopkinton, Chester, Silver Lake; Bibl. 19.

1890-91 As L. megalotis Raf.; Des Moines R.; Bibl. 2.

1892 As L. megalotis (Raf.); Cedar R.; Bibl. 20.

1892 As L. megalotis (Raf.); Bibl. 23.

1906 As L. megalotis (Raf.); Brook R. (E. D. Cope); Bibl. 7.

Lepomis humilis (Girard) — Orange-spotted sunfish, spotted sunfish.

1885 As L. humilis Gir.; Ottumwa, Hundred and Two R.; Bibl. 14.

1890 As L. humilis (Gir.); Davenport, Raccoon R., Perry, Ft. Dodge, Middle R., Des Moines, Beaver Cr., Walnut Cr., North R., Adel, Skunk R., Cedar Rapids, Sioux Falls (S. D.), Sioux City, Boyer R.; Bibl. 19.

1890-91 As L. humilis Gir.; Squaw Cr.; Bibl. 2.

1892 As L. humilis (Gir.); Bibl. 20.

1892 As L. numilis (Gir.); Southwestern Iowa; Bibl. 23.

1906 As L. numilis (Gir.); Lemars, Sioux City, Storm Lake; Bibl. 21.

Lepomis macrochirus Rafinesque.

1890 As L. macrochirus Raf.; Waverly, Dumont; Bibl. 19.

1892 As L. machrochirus (Raf.); Bibl. 20.
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1892 As L. machrochirus (Raf.); Bibl. 23.
Lepomis pallidus (Mitchill)—Bluegill.
1889 As L. pallidus Mit.; Bibl. 18.
1890 As L. pallidus (Mitchill); Davenport, Des Moines, Raccoon R., Adel,
Squaw Cr., Amana, Iowa City, Indian Cr., West Liberty, Waverly,
Palo, Cedar Rapids, Clear Lake, Wheatland, Independence, Anamosa,
Worthington; Bibl. 19.
1890-91 As L. pallidus Mit.; Bibl. 2.
1892 As L. pallidus (Mit.); Bibl. 20.
1892 As L. pallidus (Mit.); Bibl. 23.
1894 As L. pallidus (Mit.); Spirit Lake; Bibl. 21.
1925 As L. pallidus (Mitchill); West Okoboji and adjacent lakes; Potter
44, p. 31.

[Eupomotis holbrooki (Cuvier and Valenciennes)] Probably E. heros
(Baird and Girard). Lepomis holbrooki (C. and V.) = Eupomotis
holbrooki C. and V., however it seems that Iowa specimens so listed
are possibly E. heros (B. and G.). Lepomis holbrooki var. notatus
Agassiz = E. heros (B. and G.); Bibl. 15, p. 119; Bibl. 26, p. 120 and
Bibl. 6, p. 259.
1890 As L. holbrooki (C. and V.); Amana, Cedar Rapids, West Liberty;
Bibl. 19.
1892 As L. holbrooki (C. and V.); Bibl. 20.
1892 As L. holbrooki (C. and V.); Bibl. 23.
Eupomotis gibbosus (Linnaeus)—Pumpkinseed sunfish.
1889 As Lepomis gibbosus L.; Bibl. 18.
1890 As L. gibbosus (L.); Miss R., Indian Cr., Waverly, Cedar Rapids,
Wheatland; Bibl. 19.
1892 As L. gibbosus (L.); Bibl. 20.
1892 As L. gibbosus (L.); Bibl. 23.
1894 As L. gibbosus (L.); Spirit Lake; Bibl. 21.
Micropterus dolomieu Lacépède—Small-mouthed black bass.
1885 As M. dolomieu Lac.; Ottumwa; Bibl. 14.
1889 As M. dolomieu Lac.; Bibl. 18.
1890 As M. dolomieu Lac.; Muscatine, Davenport, Ft. Dodge, Des Moines
R., Raccoon R., Lizard Cr., Perry, Beaver Cr., Estherville, Adel,
Middle R., Squaw Cr., Skunk R., Cedar Rapids, Indian Cr., Dumont,
Waverly, Palo, Clear Lake, Wheatland, Independence, Anamosa, Man-
chester, Ft. Atkinson, Fayette; Bibl. 19.
1890-91 As M. dolomieu Lac.; Des Moines; Bibl. 2.
1892 As Macropterus dolomieu (Lac.); Bibl. 20.
1892 As Micropterus dolomieu Lac.; Bibl. 23.
1894 As M. dolomieu (Lac.); Spirit Lake; Bibl. 21.
Micropterus salmoides (Lacépède)—Large-mouthed black bass.
1889 As M. salmoides Lac.; Bibl. 18.
1890 As M. salmoides (Lac.); opposite Muscatine, Davenport, Raccoon
R., Perry, Beaver Cr., Adel, Des Moines, Skunk R., Squaw Cr., Iowa
City, Palo, Cedar Rapids, Waverly, West Liberty, Indian Cr., Wheat-
land, Independence, Anamosa; Bibl. 19.
1890-91 As M. salmoides Lac.; Bibl. 2.
Percidae

Perca flavescens (Mitchill) — Yellow Perch.
1889 As P. flavescens Mit.; In northern lakes; Bibl. 18.
1890 As P. flavescens (Mit.); Miss. R., Estherville, Perry, Belmond, Dumont, Cedar Rapids, Clear Lake, Sioux Falls (S. D.); Sioux City, Silver Lake; Bibl. 19.
1892 As P. lutea (Rafinesque); Bibl. 20. No synonymy was found, hence listed under P. flavescens which Meek evidently meant.
1892 As P. flavescens (Mit.); Bibl. 23.
1894 As P. flavescens (Mit.); Storm Lake, East Okoboji Lake, Spirit Lake; Bibl. 21.

Stizostedion vitreum (Mitchill) — Wall-eyed pike, pike-perch, jack-salmon.
1889 As S. vitreum; Spirit Lake and larger streams; Bibl. 18.
1890 As S. vitreum (Mit.); Miss. R., Iowa State University Museum, Cedar R., Clear Lake, Big Sioux R.; Bibl. 19.
1892 As S. vitreum (Mit.); Bibl. 20.
1892 As S. vitreum (Mit.); Bibl. 23.
1894 As S. vitreum (Mit.); W. Okoboji Lake; Bibl. 21.

Stizostedion canadense (C. H. Smith) — Sauger, sand pike.
1889 As S. canadense Smith; Bibl. 18.
1890 As S. canadense (Smith); Miss. R., Cedar R., Big Sioux R.; Bibl. 19.
1892 As S. canadense (Smith); Bibl. 20.
1892 As S. canadense (Smith); Bibl. 23.
1894 As S. canadense (Smith); Lemars, Sioux City, Spirit Lake; Bibl. 21.

Stizostedion canadense boreum (Girard).
1906 As S. c. boreum (Gir.); Battle Creek, Ia. (E. D. Cope); Bibl. 7.

Percina caprodes (Rafinesque) — Log perch.
1890 As Etheostoma caprodes (Raf.); Estherville, Ft. Dodge, Des Moines, Waverly; Bibl. 19.
1890-91 As E. caprodes Raf.; Bibl. 2.
1892 As E. caprodes (Raf.); Cedar R.; Bibl. 20.
1892 As E. caprodes Raf.; Bibl. 23.
1894 As E. caprodes (Raf.); Waterloo; Bibl. 21.

Habropterus phoxocephalus (Nelson).
1885 As Etheostoma phoxocephalum Nell.; Ottumwa; Bibl. 14.
1890 As Etheostoma phoxocephalum Nell.; Miss. R., Estherville, Perry, Palo, Cedar Rapids; Bibl. 19.
1890-91 As E. phoxocephalum Nell.; Adel; Bibl. 2.
1892 As E. phoxocephalum (Nell.); Bibl. 20.
1892 As E. phoxocephalum Nell.; Southern Iowa; Bibl. 23.

Habropterus aspro (Cope and Jordan) — Black-sided darter.
1890 As Etheostoma aspro (C. and J.); Estherville, Des Moines, Lizard Cr., Ft. Dodge, Perry, Beaver Cr., North R., Adel, Skunk R., Squaw Cr., Belmond, Iowa City, Indian Cr., West Liberty, Waverly, Dumont, Prairie Cr., Cedar Rapids, Anamosa, Hopkinton, Manchester, Ft. Atkinson; Bibl. 19.
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1890-91 As E. aspro C. and J.; Bibl. 2.
1892 As E. aspro (C. and J.); Bibl. 20.
1892 As E. aspro C. and J.; Bibl. 23.
1894 As E. aspro (C. and J.); Sioux City; Bibl. 21.

Hadropterus evides (Jordan and Copeland).
1885 As H. evides J. and C.; Ottumwa; Bibl. 14.
1890 As Etheostoma evides J. and C.; Cedar Rapids; Bibl. 19.
1892 As E. evides (J. and C.); Bibl. 20.
1892 As E. evides (J. and C.); Southern Iowa; Bibl. 23.
1894 As E. evides (J. and C.); Waterloo; Bibl. 21.

Cottogaster shumardi (Girard).
1890 As Etheostoma shumardi (Gir.); Ottumwa; Bibl. 19.
1892 As E. shumardi (Gir.); Muscatine; Bibl. 20.
1892 As E. shumardi Gir.; Bibl. 23.

Diplesion blennoides (Rafinesque) — Green sided darter.
1892 As Etheostoma blennoides (Raf.); A doubtful resident; Bibl. 20, p. 111 footnote.
1892 As E. blennoides Raf.; Southern Iowa; Bibl. 23.

Boleosoma nigrum (Rafinesque) — Johnny darter.
1890-91 As E. nigrum Raf.; Bibl. 2.
1892 As E. nigrum (Raf.); Bibl. 20.
1892 As E. nigrum Raf.; Bibl. 23.
1894 As E. nigrum Raf.; Lemars, Sioux City, Ames, Storm Lake, East Okoboji, Spirit Lakes; Bibl. 21.
1919 As B. nigrum Raf.; Cedar Falls; Bibl. 24.

[Boleosoma nigrum olmstedi Storer] Probably Boleosoma nigrum (Raf.), since B. n. olmstedi is confined to the Atlantic coast according to Bibl. 26.
1885 As Boleosoma olmstedi maculatum Agassiz; Ottumwa, Chariton; Bibl. 14.
B. o. maculatum Ag = B. n. olmstedi St.; Bibl. 26, p. 130; Bibl. 3, p. 361; Bibl. 15, pp. 123, 124 and Bibl. 6, p. 294.

Crystallaria asprella (Jordan).
1908 As C. asprella (J.); Taken from Miss. R. at E. Dubuque (Ill.); Bibl. 6, pp. 300-301.

Ammocrypta pellucida (Baird) — Sand darter.
1890-91 As Etheostoma pellucidum Baird; Des Moines, Adel, Ft. Dodge; Bibl. 2.

Ammocrypta pellucida clara Jordan and Meek.
1885 As A. clara sp. nov.; Ottumwa; Bibl. 14.
1890 As Etheostoma pellucidum clarum (J. and M.); Davenport, Raccoon R., Ft. Dodge, Perry, Adel, Cedar R., Wheatland, Independence; Bibl. 19.
1890 As E. zonale (Cope); Beaver Cr., Estherville, Ft. Dodge, Skunk R., Indian Cr., Cedar Rapids, Waverly, Dumont, Manchester, Elkport, Ft. Atkinson, Sioux City; Bibl. 19.
1892 As E. zonale (Cope); Bibl. 20.
1892 As E. zonale (Cope); Bibl. 23.

Etheostoma iowae Jordan and Meek — Iowa darter.
1885 As E. iowae sp. nov.; Chariton; Bibl. 14.
1890 As E. iowae J. and M.; Ft. Dodge, Perry, Skunk R., Iowa R., Indian Cr., Shellrock R., Waverly, Dumont, Silver Lake; Bibl. 19.
1892 As E. iowae (J. and M.); Cedar R.; Bibl. 20.
1892 As E. iowae (J. and M.); Bibl. 23.

Etheostoma Jessiae (Jordan and Brayton).
1890-91 As E. jessiae (J. and B.); Beaver Cr., Squaw Cr., Indian Cr., Cedar Rapids; Bibl. 19.
1892 As E. jessiae (J. and B.); Bibl. 20.
1892 As E. jessiae (J. and B.); Bibl. 23.

Etheostoma coeruleum Storer — Rainbow darter.
1890 As E. coeruleum St.; Skunk R., Squaw Cr., Indian Cr., Cedar Rapids, Waverly, Minnow Cr., Anamosa, Yellow R.; Bibl. 19.
1892 As E. coeruleum (St.); Bibl. 20.
1892 As E. coeruleum St.; Bibl. 23.
1894 As E. coeruleum St.; Storm Lake; Bibl. 21.

Etheostoma flabellare Rafinesque — Fan-tailed darter.
1890 As E. flabellare Raf.; Ft. Dodge, Beaver Cr., Estherville, Perry, Raccoon R., Belmond, Iowa City, Indian Cr., Palo, Cedar Rapids, Clear Lake, Anamosa, Worthington, Delhi, Bear Cr., Fayette, Yellow R.; Bibl. 19.
1890-91 As E. flabellare Raf.; Des Moines; Bibl. 2.
1892 As E. flabellare (Raf.); Bibl. 20.
1906 As E. flabellare (Raf.); Postville (Dr. S. E. Meek); Bibl. 7.

Microperca punctulata Putnam — Least darter.
1890 As Etheostoma microperca (Jordan and Gilbert); West Liberty, Delhi, Manchester; Bibl. 19.
1892 As E. microperca (J. and G.); Cedar R.; Bibl. 20.
1892 As E. microperca (J. and G.); Bibl. 23.

Serranidae

Roccus chrysops (Rafinesque) — White bass.
1889 As R. chrysops Raf.; Bibl. 18.

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1890 As R. chrysops Raf.; Muscatine, Davenport, Sioux City, Silver Lake; Bibl. 19.
1892 As R. chrysops (Raf.); Cedar R.; Bibl. 20.
1892 As R. chrysops (Raf.); Clear Lake; Bibl. 23.
1894 As R. chrysops (Raf.); Storm Lake; Bibl. 21.
Meek reports that this species is introduced into the larger lakes of Iowa, Bibl. 23, p. 15.

Morone interrupta Gill — Yellow bass.
1890 As M. interrupta Gill; Miss. R.; Bibl. 19.
1892 As Morone interrupta Gill; Cedar R.; Bibl. 20.
1892 As Morone interrupta Gill; Bibl. 23.

Sciainidae

Aplodinotus grunniens Raf.—Sheepshead, fresh-water drum, croaker, white perch.
1889 As Aplodinotus grunniens Raf.; Bibl. 18.
1890 As Aplodinotus grunniens Raf.; Muscatine, Davenport, Cedar Rapids, Sioux City; Bibl. 19.
1892 As Aplodinotus grunniens (Raf.); Bibl. 20.
1892 As Aplodinotus grunniens (Raf.); Bibl. 23.

Cottidae

Cottus ictalops (Rafinesque) — Miller’s thumb.
1890 As C. bairdi (Girard); Bear Cr., Hickory Cr.; Bibl. 19.
1892 As C. bairdi (Ag.); Cedar R.; Bibl. 20. (No synonymy found with regard to author.)
1892 As C. bairdi; Bibl. 23.
C. ictalops (Raf.) = C. bairdi Gir.; Bibl. 16 part 2, p. 1951.

Gadidae

Lota maculosa (Le Sueur) — Burbot, lawyer, ling.
1890 As Lota lota maculosa (Le S.); Miss. R.; Bibl. 19.
1892 As Lota lota Linnaeus; Bibl. 20.
1892 As L. 1. maculosa Le S.; Bibl. 23.
Lota maculosa Le S. in our early records was regarded as identical with Lota lota L., the northern European species; Bibl. 15, p. 162; Bibl. 6, p. 331 and Bibl. 16, part 3, p. 2551.

HYPOTHETICAL LIST

Acipenseridae

Parascephirynchus albus Forbes & Richardson — White sturgeon.
1904-09 Described from Grafton and Alton Illinois, Mississippi River by Forbes and Richardson. Bibl. 5, p. 37.

Salmonidae

Leucichthys nigripinnis (Gill) — Bluefish, blackfin.
Leucichthys tullibee (Richardson) — Tullibee.
Salmo shasta Jordan — Rainbow trout.
Possible as an introduction. Bibl. 26, p. 46.
Catostomidae

Carpiodes carpio (Rafinesque) — Carp sucker, river carp.
Bibl. 26, p. 54; Bibl. 6, p. 76.

Cyprinidae

Cyprinus carpio Linnaeus — European carp, German carp.
Bibl. 26, p. 64; Bibl. 6, p. 105. No printed report found for Iowa.

Chrosomus dakotensis Evermann & Cox.
Listed from Missouri River basin in Nebraska and South Dakota;
Bibl. 26, p. 66.

Leuciscus neogaeus (Cope).
Recorded from Baraboo, Wisconsin, and Black Hills, South Dakota;
Bibl. 26, p. 71; Bibl. 16, part 1, p. 240.

Chrosomus emiliae Hay.
Northern Mississippi Valley; Bibl. 26, p. 73; Bibl. 6, p. 124.

Notropis scylla (Cope).
See Bibl. 26, p. 77 and Bibl. 6, p. 139 under N. phaeacobius Forbes.

Notropis illecebrisus (Girard).
Bibl. 6, p. 141; Bibl. 26, p. 79; Bibl. 15, p. 57. See explanation under
N. shumardi (Girard).

Notropis umbratilis lythrurus (Jordan).
Reported as in basin of Ohio River. Bibl. 26. However, as a component of the old species N. ardens cope, it should be watched for.
See explanation under N. umbratilis atripes (Jordan).

Notropis umbratilis cyanocephalus (Copeland).
A component of the old species N. ardens Cope and should be watched for. See explanation under N. umbratilis atripes (Jordan). Reported from southern Wisconsin; Bibl. 26, p. 84.

Hybopsis amblops (Rafinesque) — Silver chub.
See Bibl. 26, p. 89; Bibl. 6, p. 166.

Siluridae

Ameiurus vulgaris (Thompson).
See Bibl. 26, p. 94.

Poeciliidae

Fundulus diaphanus (Le Sueur).
Bibl. 26, p. 102; Bibl. 6, p. 211. F. diaphanus (Le S.) not recorded from Iowa, evidently belongs to her fauna; Bibl. 20, p. 110, footnote.

Fundulus diaphanus menona Jordan and Copeland.
See Bibl. 26, p. 102; Bibl. 6, p. 211.

Aphredoderidae

Aphredoderus sayanus (Gilliams) — Pirate perch.
Bibl. 26, p. 113; Bibl. 6, p. 230.

1892 As A. sayanus (Gilliams); Doubtful inhabitant; Bibl. 23, p. 13.

Centrarchidae

Eupomotis heros (Baird & Girard).
Probably the form meant in the old lists when Lepomis holbrooki (Cuvier & Valenciennes) was listed. L. holbrooki had a western form (var. notatus Agassiz) which is regarded as equivalent now to E.
heros (B. & G.) Bibl. 15, p. 119; Bibl. 6, p. 259. L. holbrooki is now regarded by Pratt as an Atlantic coast species. Bibl. 26, p. 120.

Percidae

Stizostedion canadense griseum (De Kay).
Bibl. 26, p. 123; Bibl. 6, p. 274.
Beleithyys fusiformis (Girard).
Bibl. 26, p. 136.

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