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ATLAS

To Accompany a Report on the
Fishes of Illinois

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Maps

Showing Distribution of Illinois Fishes to Accompany a Report on the Fishes of Illinois

BY

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AND

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SECOND EDITION, 1919

PUBLISHED BY
AUTHORITY OF THE STATE OF ILLINOIS

SPRINGFIELD, ILL.
ILLINOIS STATE JOURNAL CO., STATE PRINTERS
1919
(18050-2M-6-19)

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LIST OF MAPS

The general map of the distribution of collections (Map IV.) shows, by the location of the red spots, all the localities from which collections of fishes have been made by us in the work of the Natural History Survey. The distribution maps for the various species indicate in the same way all the localities from which representatives of the species have been taken. *For an accurate idea of the significance of these species maps, each should be compared with Map IV.*

The following numbered list of the counties of the state corresponds to the figures on these maps.

1. Jo Daviess	35. Hancock	69. Madison
2. Stephenson	36. McDonough	70. Bond
3. Winnebago	37. Fulton	71. Fayette
4. Boone	38. Mason	72. Effingham
5. McHenry	39. Tazewell	73. Jasper
6. Lake	40. McLean	74. Crawford
7. Cook	41. Vermilion	75. Lawrence
8. Du Page	42. Champaign	76. Richland
9. Kane	43. Piatt	77. Clay
10. DeKalb	44. Dewitt	78. Marion
11. Ogle	45. Logan	79. Clinton
12. Lee	46. Menard	80. St. Clair
13. Carroll	47. Cass	81. Monroe
14. Whiteside	48. Schuyler	82. Randolph
15. Rock Island	49. Brown	83. Washington
16. Mercer	50. Adams	84. Perry
17. Henry	51. Pike	85. Jefferson
18. Bureau	52. Scott	86. Wayne
19. Putnam	53. Morgan	87. Edwards
20. La Salle	54. Sangamon	88. Wabash
21. Kendall	55. Christian	89. White
22. Grundy	56. Macon	90. Hamilton
23. Will	57. Moultrie	91. Franklin
24. Kankakee	58. Douglas	92. Jackson
25. Iroquois	59. Edgar	93. Williamson
26. Ford	60. Clark	94. Saline
27. Livingston	61. Coles	95. Gallatin
28. Marshall	62. Cumberland	96. Hardin
29. Woodford	63. Shelby	97. Pope
30. Stark	64. Montgomery	98. Johnson
31. Peoria	65. Macoupin	99. Union
32. Knox	66. Greene	100. Alexander
33. Warren	67. Calhoun	101. Pulaski
34. Henderson	68. Jersey	102. Massac

I. & II. The three sections of Illinois, northern, central, and southern, and the ten stream systems of the state: I., the Galena District, II., the Rock River System, III., the Illinois River System, IV., the Lake Michigan drainage, V., the Mississippi River drainage, VI., the Kaskaskia River System, VII., the Wabash System, VIII., the Big Muddy River System, IX., the Saline River System, and X., the Cairo District.

III. Glacial geology of Illinois.

IV. Localities from which collections were made.

V.—CII. Distribution of species.

CIII. Northern species (●) and southern species (▲) in Illinois.

	MAP No
Banded Darter, <i>Etheostoma zonale</i>	XCIII
Big-eyed Chub, <i>Hybopsis amblops</i>	XLIX
Black Bullhead, <i>Ameiurus melas</i>	LV
Black Crappie, <i>Pomoxis sparoides</i>	LXXI
Black-head Minnow, <i>Pimephales promelas</i>	XXVII
Black-sided Darter, <i>Hadropterus aspro</i> ..	LXXXVII
Blackfin, <i>Notropis umbratilis atripes</i>	XLV
Bluegill, <i>Lepomis pallidus</i>	LXXXVIII
Blunt-nosed Minnow, <i>Pimephales notatus</i>	XXVIII
Blunt-nosed River Carp, <i>Carpiodes difformis</i>	XIII
<i>Boleichthys fusiformis</i>	XCVIII
<i>Boleosoma camurum</i>	XCI
Brindled Stonecat, <i>Schilbeodes miurus</i> ..	LIX
Brook Silverside, <i>Labidesthes sicculus</i> ..	LXVIII
Bullhead Minnow, <i>Ctiola vigilax</i>	XXXII
Channel-cat, <i>Ictalurus punctatus</i>	LII
Chub-sucker, <i>Erimyzon succia oblongus</i>	XVI
Common Pike, <i>Esox lucius</i>	LXII
Common Red-horse, <i>Moxostoma aureolum</i>	XXI
Common River Carp, <i>Carpiodes carpio</i> ..	XII
Common Shiner, <i>Notropis cornutus</i>	XLJ
Common Sucker, <i>Catostomus commersonii</i>	XVIII
<i>Cottogaster shumardi</i>	LXXXVIII
Dogfish, <i>Amia calva</i>	VII
<i>Etheostoma jessie</i>	XCIV
<i>Etheostoma squamiceps</i>	XCVI
Fan-tailed Darter, <i>Etheostoma flabellare</i>	XCVII
<i>Fundulus dispar</i>	LXIV
Gizzard-shad, <i>Dorosoma cepedianum</i>	VIII
Golden Shiner, <i>Abramis crysoleucas</i>	XXXI
Gray Pike, <i>Stizostedion canadense griseum</i>	LXXXIII
Green-sided Darter, <i>Diplesion bienniis</i>	LXXXIX
<i>Hadropterus phoxocephalus</i>	LXXXVI
Hogsucker, <i>Catostomus nigricans</i>	XIX
Horned Dace, <i>Semotilus atromaculatus</i> ..	XXIX
<i>Hybognathus nuchalis</i>	XXV
<i>Hybognathus nubilus</i>	XXVI
Johnny Darter, <i>Boleosoma nigrum</i>	XC
Lake Carp, <i>Carpiodes thompsoni</i>	XV
Large-mouthed Black Bass, <i>Micropterus salmoides</i>	LXXXI
Least Darter, <i>Microperca punctulata</i>	XCIX
<i>Lepomis miniatus</i>	LXXV
Little Pickerel, <i>Esox vermiculatus</i>	LXI
Log-perch, <i>Percina caprodes</i>	LXXXV
Long-eared Sunfish, <i>Lepomis megalotis</i>	LXXVI
Long-nosed Gar, <i>Lepisosteus osseus</i>	V
Menoua Top-minnow, <i>Fundulus diaphanus menoua</i>	LXIII
Mongrel Buffalo, <i>Ictiobus urus</i>	X
Mud-cat, <i>Leptops olivaris</i>	LVI
Mud-minnow, <i>Umbra limi</i>	LX

	MAP No.
<i>Notropis cayuga</i>	XXXIII
<i>Notropis gilberti</i>	XXXVI
<i>Notropis heterodon</i>	XXXIV
<i>Notropis illecebrosus</i>	XXXVII
<i>Notropis jejunos</i>	XLII
<i>Opsopodus emilix</i>	XXX
Orange-spotted Sunfish, <i>Lepomis humilis</i>	LXXVII
Pirate-perch, <i>Aphredoderus sayanus</i>	LXIX
Pumpkinseed, <i>Eupomotis gibbosus</i>	LXXXIX
Quillback, <i>Carpiodes velifer</i>	XIV
Rainbow Darter, <i>Etheostoma caeruleum</i>	XCV
Red-bellied Dace, <i>Chrosomus erythrogaster</i>	XXIV
Redfin, <i>Notropis lutrensis</i>	XXXIX
Red-mouth Buffalo, <i>Ictiobus cyprinellus</i>	IX
River Chub, <i>Hybopsis kentuckiensis</i>	LJ
Rock Bass, <i>Ambloplites rupestris</i>	LXXXIII
Rosy-faced Minnow, <i>Notropis rubrifrons</i>	XLIV
Round Sunfish, <i>Centrarchus macropterus</i>	LXXII
Sand Darter, <i>Ammocrypta pellucida</i>	XCII
Sheepshead, <i>Aplodinotus grunniens</i>	CII
Shiner, <i>Notropis atherinoides</i>	XLIII
Short-headed Red-horse, <i>Moxostoma breviceps</i>	XXII
Short-nosed Gar, <i>Lepisosteus platostomus</i>	VI
Silver-mouthed Minnow, <i>Ericymba buccata</i>	XLVI
Silvery Minnow, <i>Hybognathus nuchalis</i>	XXV
Small-mouth Buffalo, <i>Ictiobus bubalus</i>	XI
Small-mouthed Black Bass, <i>Micropterus dolomieu</i>	LXXX
Speckled Bullhead, <i>Ameiurus nebulosus</i>	LIV
Spot-tailed Minnow, <i>Notropis hudsonius</i>	XXXVIII
Spotted Shiner, <i>Hybopsis dissimilis</i>	XLVIII
Spotted Sucker, <i>Minytrema melanops</i> ..	XVII
Steel-colored Minnow, <i>Notropis whipplii</i>	XL
Stonecat, <i>Noturus flavus</i>	LVII
Stone-roller, <i>Camptostoma anomalum</i>	XXIII
Storer's Chub, <i>Hybopsis storerianus</i>	L
Straw-colored Minnow, <i>Notropis bienniis</i>	XXXV
Sucker-mouthed Minnow, <i>Phenacobius mirabilis</i>	XLVII
Tadpole Cat, <i>Schilbeodes gyrimus</i>	LVIII
Top-minnow, <i>Fundulus notatus</i>	LXV
Trout-perch, <i>Percopsis guttatus</i>	LXVII
Viviparous Top-minnow, <i>Gambusia affinis</i>	LXVI
Wall-eyed Pike, <i>Stizostedion vitreum</i>	LXXXII
Warmouth Bass, <i>Chaenobryttus gulosus</i> ..	LXXIV
White Bass, <i>Roccus chrysops</i>	C
White Crappie, <i>Pomoxis annularis</i>	LXX
White-nosed Sucker, <i>Moxostoma anisurum</i>	XX
Yellow Bass, <i>Morone interrupta</i>	CI
Yellow Bullhead, <i>Ameiurus natalis</i>	LIII
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I & II
Stream systems
and
Sections of
Illinois

III

Map of the Glacial Geology of Illinois

IV
Water Courses
and
Distribution
of
Collections

V
Distribution
of
Lepisosteus
osseus

VI
Distribution
of
*Lepisosteus
platostomus*

VII
Distribution
of
Amia
calva

VIII
Distribution
of
Dorosoma
cepedianum

IX
Distribution
of
Ictiobus
cyprinella

X
Distribution
of
Ictiobus
urus

XI
Distribution
of
Ictiobus
bubalus

XII
Distribution
of
Carpoides
carpio

XIII
Distribution
of
Carpodacus
difformis

XIV
Distribution
of
*Carpododes
velifer*

XV
 Distribution
 of
Carpodites
thompsoni

XVI
Distribution
of
Erimyzon
sucetta
oblongus

XVII
Distribution
of
Minytrema
melanops

XVIII
Distribution
of
Catostomus
commersonii

XIX
Distribution
of
Catostomus
nigricans

XX
Distribution
of
Moxostoma
anisurum

XXI
Distribution
of
Moxostoma
aureolum

XXII
Distribution
of
Moxostoma
breviceps

XXIII
Distribution
of
Campostoma
anomalum

XXIV
Distribution
of
Chrosomus
erythrogaster

XXV
Distribution
of
Hybognathus
nuchalis

XXVI
 Distribution
of
Hybognathus
nubila

XXVII
Distribution
of
Pimephales
promelas

XXVIII
Distribution
of
Pimephales
notatus

XXIX
Distribution
of
Semotilus
atromaculatus

XXX
Distribution
of
Opsopœodus
emilæ

XXXI
Distribution
of
*Abrams
crysoleucas*

XXXII
Distribution
of
Cliola
vigilax

XXXIII
Distribution
of
*Notropis
cayuga*

XXXIV
Distribution
of
Notropis
heterodon

XXXV
Distribution
of
*Notropis
blennius*

XXXVI
Distribution
of
*Notropis
gilberti*

XXXVII
Distribution
of
Notropis
illecebrosus

XXXVIII
Distribution
of
*Notropis
hudsonius*

XXXIX
Distribution
of
Notropis
lutrensis

XL
Distribution
of
*Notropis
whippii*

XLI
Distribution
of
Notropis
cornutus

XLII
Distribution
of
Notropis
jejunos

XLIII
 Distribution
 of
Notropis
atherinoides

XLIV
Distribution
of
Notropis
rubrifrons

XLV
Distribution
of
Notropis
umbratilis
atripes

XLVI
Distribution
of
Ericymba
buccata

.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
----Drainage Canal
• County Seat

-Ill. and Mich. Canal
-Ill. and Miss. Canal
-Drainage Canal
- County Seat

XLVII
Distribution
of
Phenacobius
mirabilis.

XLVIII
Distribution
of
Hybopsis
dissimilis

XLIX
Distribution
of
Hybopsis
amblops

L
Distribution
of
Hybopsis
storerianus

LI
Distribution
of
Hybopsis
kentuckiensis

LII
Distribution
of
Ictalurus
punctatus

LIII
Distribution
of
Ameiurus
natalis

LIV
Distribution
of
Ameiurus
nebulosus

.....Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
 • County Seat

LV
Distribution
of
*Ameiurus
melas*

LVI
Distribution
of
*Leptops
olivaris*

LVII
Distribution
of
Noturus
flavus

LVIII
Distribution
of
Schilbeodes
gyrinus

LIX
Distribution
of
Schilbeodes
miurus

LX
Distribution
of
Umbra
limi

LXI
Distribution
of
Esox
vermiculatus

LXII
Distribution
of
Esox
lucius

LXIII
Distribution
of
*Fundulus
diaphanus
menona*

LXIV
Distribution
of
Fundulus
dispar

LXV
Distribution
of
Fundulus
notatus

LXVI
Distribution
of
Gambusia
affinis

LXVII
Distribution
of
*Percopsis
guttatus*

.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

-Ill. and Mich. Canal
-Ill. and Miss. Canal
-Drainage Canal
- County Seat

LXVIII
Distribution
of
Labidesthes
sicculus

LXIX
Distribution
of
Aphredoderus
sayanus

LXX
Distribution
of
Pomoxis
annularis

LXXI
Distribution
of
Pomoxis
sparoides

LXXII
Distribution
of
*Centrarchus
macropterus*

LXXIII
Distribution
of
Ambloplites
rupestris

LXXIV
Distribution
of
Chænobryttus
gulosus

LXXV
Distribution
of
*Lepomis
miniatus*

LXXVI
Distribution
of
Lepomis megalotis

LXXVII
Distribution
of
Lepomis humilis

LXXVIII
Distribution
of
Lepomis
pallidus

LXXIX.
Distribution
of
Eupomotis
gibbosus

LXXX
Distribution
of
Micropterus
dolomieu

LXXXI
Distribution
of
*Micropterus
salmoides*

LXXXII
Distribution
of
Stizostedion
vitreum

LXXXIII
Distribution
of
Stizostedion
canadense
griseum

LXXXIV
Distribution
of
*Perca
flavescens*

LXXXV
Distribution
of
*Percina
caprodes*

LXXXVI
Distribution
of
*Hadropterus
phoxocephalus*

LXXXVII
Distribution
of
Hadropterus
aspro

LXXXVIII
Distribution
of
Cottogaster
shumardi

LXXXIX
Distribution
of
*Diplesion
blennioides*

XC
Distribution
of
Boleosoma
nigrum

XCI
Distribution
of
Boleosoma
camurum

XCH
Distribution
of
*Ammocrypta
pellucida*

XCIII
Distribution
of
Etheostoma
zonale

XCIV
Distribution
of
Etheostoma
jessiae

XCV
Distribution
of
Etheostoma
cœruleum

XCVI
Distribution
of
Etheostoma
squamiceps

XCVII
Distribution
of
Etheostoma
flabellare

XCVIII
Distribution
of
Boleichthys
fusiformis

XCIX
Distribution
of
*Microperca
punctulata*

C
Distribution
of
Roccus
chrysops

CI
Distribution
of
Morone
interrupta

CII
Distribution
of
Aplodinotus
grunniens

CIII

Northern species (●)
and
Southern species (▲)
in Illinois

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