ATLAS

To Accompany a Report on the

Fishes of Illinois

S. A. Forbes  R. E. Richardson
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ILLINOIS HISTORICAL SURVEY.
Maps
Showing Distribution of Illinois Fishes
to Accompany a Report on the
Fishes of Illinois

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

Banded Darter, *Etheostoma zonale*...
Big-eyed Chub, *Hybopsis ambloplites*...
Black Bullhead, *Ameiurus melas*...
Black Crapple, *Pomoxis sparoides*...
Black-head Minnow, *Pimephales promelas*...
Black-sided Darter, *Hydropetes asproussia*...
Blackfin, *Notropis unbrattilis strix*...
Bl youthful, *Lepomis pallidus*...
Blunt-nosed Minnow, *Pimephales notatus*...
Blunt-nosed River Carp, *Carpiodes diffinis*...
Bolechittys fusiformis...
Bolosoma camurum...
Brindled Stonecat, *Schilbeodes miurus*...
Brook Silverside, *Labiostoma sicula*...
Bullhead Minnow, *Citoila rigida*...
Channel-cat, *Ictalurus punctatus*...
Chub-sucker, *Erimyzon suetica oblongus*...
Common Pike, *Esoc lucius*...
Common Redhorse, *Moxostoma auriculatum*...
Common River Carp, *Carpiodes carpio*...
Common Shiner, *Notropis cornutus*...
Common Sucker, *Catostomus commersonii*...
Cottogaster quinarius...
Dogfish, *Ania cauda*...
Dogtooth, *Etheostoma jessica*...
Etheostoma squamteps...
Fan-tailed Darter, *Etheostoma flabellare*...
Fundulus disperg...
Gizzard-shad, *Dorosoma cepedianum*...
Golden Shiner, *Alosa chrysochelica*...
Gray Pike, *Stizostedion canadense griseum*...
Greend-sided Darter, *Dipleus bennius*...
Hodroperthus phoebocephalus...
Hogsucker, *Catostomus nigricans*...
Horned Dace, *Somatomus atracula*...
Hyboglyphus nucalis...
Hybognathus nubila...
Jokey Darter, *Bolosoma nigrum*...
Lake Carp, *Carpiodes thompsonyi*...
Large-mouthed Black Bass, *Micropterus salmoides*...
Least Darter, *Microperca punctulata*...
Lepomis miniatus...
Little Pickerel, *Esox muricatus*...
Log-perch, *Percina caprodes*...
Long-eared Sunfish, *Lepomis megalos*...
Long-nosed Gar, *Lepisosteus osseus*...
Menom Lake Minnow, *Fundulus diephanius menomana*...
Mongrel Buffalo, *Ictalurusurus*...
Mud-cat, *Leptodes olivaris*...
Mud-minnow, *Umbrara limi*...
Nortropis cayuga...
Notropis gilberti...
Notropis heterodon...
Notropis illecebrosus...
Notropis jeffersonianus...
Oposopodon multiflavus...
Orange-spotted Sunfish, *Lepomis humilis*...
Pirate-perch, *Aplocheilodes oxyanus*...
Pumpkinseed, *Epiophanes gibbosus*...
Quillback, *Carpiodes wiffil*...
Rainbow Darter, *Etheostoma coraculum*...
Red-bellied Dace, *Chrosomus erythrogaster*...
Redfin, *Notropis intrensiss*...
Red-mouth Buffalo, *Ictiobus cyprinella*...
River Chub, *Hybopsis kentuckiensis*...
Rock Bass, *Ambloplites rupestris*...
Rosy-faced Minnow, *Notropis rubrifrons*...
Round Sunfish, *Centrarchus macropterus*...
Sand Darter, *Amurocutia pellucidu*...
Sheephead, *A. flabellatus*...
Short-nosed Minnow, *E. nilson*...
Short-headed Redhorse, *Moxostoma breviceps*...
Short-nosed Gar, *Lepisosteus platostomus*...
Silver-mouth Minnow, *E. ephrya*...
Silver Minnow, *Hyboglyphus nanalis*...
Small-mouth Buffalo, *Ictiobus bubalis*...
Small-mouthed Black Bass, *Micropterus dolomieu*...
Speckled Bullhead, *Ameiurus nebulosus*...
Spot-tailed Minnow, *Notropis hubisonis*...
Spotted Shiner, *Hybopsis diatomata*...
Spotted Sucker, *Minnowtystra melanops*...
Steel-colored Minnow, *Notropis schippelli*...
Stonecat, *Noturus flavus*...
Stone-roller, *Campostoma anomalum*...
Storer's Chub, *Hybopsis storeriana*...
Straw-colored Minnow, *Notropis pennsutus*...
Sweetmouth Minnow, *E. fluminea*...
Tadpole Cat, *Schilbeodes grunniens*...
Top-minnow, *Fundulus notatus*...
Tout-perch, *Percopsis guttata*...
Viviparous Tom-minnow, *Gambusia affinis*...
Wall-eyed Pike, *Stizostedion vitreum*...
Warmouth Bass, *Chubobrytus galusus*...
White Bass, *Roccus chrysops*...
White Crapple, *Pomoxis annularis*...
White-notch Sucker, *Micropterus annularis*...
Yellow Bass, *Morone interrupta*...
Yellow Bullhead, *Ameiurus natalis*...
Yellow Perch, *Perca flavescens*...
I & II
Stream systems
and
Sections of
Illinois

---Ill. and Mich. Canal
---Ill. and Miss. Canal
---Drainage Canal
. County Seat
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Map of the
Glacial Geology
of Illinois
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Water Courses and Distribution of Collections

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--- Illinois and Mississippi Canal
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osseus
VIII
Distribution of Dorosoma cepedianum.

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Distribution
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Carpiodes difformis
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Carpiodes velifer

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Distribution of

Moxostoma aureolum

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Distribution of *Opsopœodus emiliae*
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Distribution of Fundulus dispar

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of
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and
Mich.
Canal

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and
Miss.
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Distribution of Pomoxis annularis

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Distribution
of
Etheostoma
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County Seat

Mississippi River
Distribution of Boleichthys fusiformis
XCIX
Distribution of
Microperca punctulata
Distribution of Roccus chrysops

Ill. and Mich. Canal
Ill. and Miss. Canal
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County Seat
Distribution of Morone interrupta
CII
Distribution of
Aplodinotus grunniens

--- Ill and Mich. Canal
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Northern species (○) and Southern species (▲) in Illinois.
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