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SHELLS FROM ALCONA, OSCODA AND CRAWFORD
COUNTIES, MICHIGAN

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The following list of species from Michigan is offered as a contribution to a knowledge of the fauna of the state. Alcona, Oscoda and Crawford Counties lie in the northeastern part of the southern peninsula in a region where little collecting has been done. The list is compiled from several sources, the principal one a collection made in 1917 by Crystal Thompson and Helen T. Gaige at Harrisville and Greenbush, Alcona County. The writer is indebted to Dr. Bryant Walker of Detroit for further records of shells from Greenbush and Killmaster, Alcona County. Other material in the Museum of Zoology was collected by J. E. Reighard and N. A. Wood in the course of a trip down the Au Sable River in 1903.

The writer wishes to acknowledge the assistance of Dr. Bryant Walker in naming the greater part of the collections and in verifying or correcting the writer's identifications of the 1917 material.

LIST OF SPECIES¹

Polygyra albolabris (Say). Alcona County: Harrisville, Crystal Lake. Oscoda County: McKinley. Crawford County: 3 miles east of Grayling.

Polygyra fraterna (Say). Alcona County: Harrisville. Oscoda County: McKinley.

Polygyra monodon (Rackett). Oscoda County.

Polygyra sayana Pilsbry. Alcona County: Harrisville. Oscoda County: near Butler Bridge.

Circinaria concava (Say). Alcona County: Harrisville. A small form, the largest measuring: altitude 7, diameter 13 mm.

Vitrina limpida Gould. Alcona County: Harrisville.

Vitrea binneyana (Morse). Alcona County: Harrisville, Greenbush.

Vitrea ferrea (Morse). Alcona County: Harrisville,.

Vitrea hammonis (Ström) (= *radiatula* Alder). Alcona County: Harrisville. Oscoda County: McKinley.

Vitrea multidentata (Binney). Alcona County: Harrisville. Two specimens, of which one has a solid bar in place of one row of the internal teeth. Pilsbry² says: ". . . with ordinary specimens of *multidentata* there sometimes occur shells in which radial barriers similar to those of *V. lamellidens* replace the teeth of the normal form. Such specimens are known from: W. Granby, Hartford Co., Conn.; Garrettville, O.; Greenwich, N. Y. (Acad. Coll.); Deering, N. H.; Litchfield, N. Y. (Coll. G. H. Clapp); Ottawa, Can. (Coll. Bryant Walker), and Ithaca, N. Y. (Coll. H. E. Sargent)." This record adds another locality to the list.

¹ Unless otherwise specified localities are in or near the Au Sable River.

² *Proc. Acad. Nat. Sci., Phila.*, 1903, p. 208.

Euconulus fulvus (Müller). Alcona County: Greenbush, Killmaster.

Euconulus chersinus polygyratus (Pilsbry). Alcona County: Harrisville.

Zonitoides arborea (Say). Alcona County: Harrisville, Greenbush. Oscoda County.

Zonitoides exigua (Stimpson). Alcona County: Harrisville.

Zonitoides minuscula (Binney). Alcona County: Greenbush.

Agriolimax agrestis (Linnæus). Alcona County: Harrisville.

Agriolimax campestris (Say). Alcona County: Harrisville.

Pyramidula alternata (Say). Alcona County: Harrisville, Crystal Lake. Oscoda County: McKinley.

Pyramidula cronkhitei anthonyi Pilsbry. Alcona County: Harrisville, Greenbush. Oscoda County.

Helicodiscus parallelus (Say). Alcona County: Harrisville, Greenbush.

Philomycus carolinianus (Bosc). Alcona County: Harrisville, Twin Lakes, Lincoln.

Succinea avara (Say). Alcona County: Killmaster.

Succinea avara vermeta (Say). Alcona County: Harrisville.

Succinea ovalis Say. Alcona County: Bamfields, Oscoda County: McKinley.

Succinea retusa Lea. Alcona County: Harrisville.

Strobilops virgo (Pilsbry). Alcona County: Harrisville, Greenbush.

Gastrocopta contracta (Say). Alcona County: Harrisville.

Gastrocopta tappaniana (C. B. Adams). Alcona County: Harrisville.

Vertigo gouldii (Binney). Alcona County: Killmaster.

Vertigo ovata Say. Alcona County: Harrisville.

Cochlicopa lubrica (Müller). Alcona County: Harrisville, Greenbush.

Vallonia pulchella (Müller). Alcona County: Harrisville.

Carychium exiguum (Say). Alcona County: Killmaster.

Carychium exile H. C. Lea. Alcona County: Harrisville.

Lymnæa catascopium Say. Crawford County.

Lymnæa obrussa Say. Alcona County: Killmaster, Pine River.

Lymnæa obrussa exigua (Lea). Alcona County: Harrisville, Greenbush.

Lymnæa palustris (Müller). Alcona County: Killmaster, Pine River, Harrisville, Greenbush.

Lymnæa stagnalis appressa (Say). Crawford County.

Planorbis antrosus Conrad. Oscoda County. Crawford County.

Planorbis circumstriatus Tryon. Alcona County: Harrisville, Greenbush.

Planorbis trivolvis Say. Alcona County: Greenbush, Killmaster, Pine River.

Physa anatina Lea. Alcona County: Killmaster, Pine River.

Physa gyrina Say. Alcona County: Harrisville, Greenbush. Crawford County.

Physa gyrina ? Say, var. Alcona County: Killmaster, Pine River.

Physa heterostropha Say. Oscoda County.

Physa integra Haldeman. Alcona County: Bamfields. Oscoda County: Big Creek. Crawford County.

Physa sayii Tappan. Crawford County.

Annicola limosa (Say). Crawford County: South Branch of Au Sable River. Alcona County: Killmaster, Pine River.

Valvata tricarinata Say. Crawford County: South Branch of Au Sable River.

Goniobasis livescens Menke. Alcona County. Oscoda County. Crawford County.

Campeloma rufum (Haldeman). Oscoda County.

Sphaerium fabale (Prime). Oscoda County.

Sphaerium sulcatum (Lamarck). Alcona County: Van Netten Creek, Greenbush. Crawford County.

Sphaerium stamineum (Conrad). Oscoda County: McKinley, Butler Bridge.

Sphaerium striatinum (Lamarck). Oscoda County.

Lasmigona compressa (Lea). Crawford County.

Alasmidonta calceolus (Lea). Crawford County.

Anodonta marginata Say. Alcona County: near Harrisville.

Anodonta grandis footiana ? Lea. Alcona County: Greenbush, Twin Lakes, Lincoln.

