

OHIO MOLLUSCA.

Additions and Corrections.

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Since the preliminary catalogue of the Ohio Mollusca was published*, a good deal of collecting has been done, principally in northern Ohio, by Dr. R. C. Rush, John A. Allen, Calvin Goodrich, and myself. The fauna of the southern part of the State is still very insufficiently known, outside of the vicinity of Cincinnati, and the Ohio River, and in that, mainly the naiades. It is desirable that thorough, systematic collecting be done there, and also that at least one collection of the Ohio Mollusks be secured, as complete as possible, before it is too late. Then, a revised catalogue may be prepared.

Species and varieties added, up to the present time, are given in the following list, and also some alterations. A number of forms are doubtful; with more good material, their affinities may be ascertained. Additional localities of species enumerated in the catalogue, are noted only in a few instances.

The Naiades have been carefully studied by Dr. A. E. Ortmann, during the last years, and their arrangement and nomenclature have been changed considerably. These changes cannot be included here. Additional species and varieties of *Lymnæa*, and some changes, are cited partly from Dr. Frank C. Baker's monograph. The old generic name is retained.

Gastrodonta lasmodon, (Phillips), from Rootstown, are **G. suppressa** Say; "**G. suppressa**," from Tuscarawas Co., are of an undescribed species, known also from Virginia.

Polygyra fastigiata (Say): Millville, Butler Co.! (t. Bryant Walker).

Philomycus biseriatus Sterki: Summit Co.! (Dr. R. C. Rush), Tuscarawas Co. (St.); distinct, or a var. of **carolinensis**. (Bosc.)

Bifidaria armifera similis Sterki. Kelley's Id.! (Allen).

B. armifera affinis, Sterki: dunes at Fairport (St.); Hartwell, Cincinnati! (Goodrich).

Vertigo pygmæa: (Draparnaud): Hudson, woods, and abundant in town lawns! (Rush).

V. pygmæa albidens Sterki (changed from **callosa**, preoc.), Columbus.

Succinea retusa magister Pilsbry. Lucas Co.! (Goodrich).

Lymnæa stagnalis appressa Say is the typical American form.

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- Lymnæa columella casta** Lea: Poland (type locality); Kent (Dean, St.).
- Lymnæa sterkii** Baker, is a var. of **parva** Lea, t. Baker.
- Lymnæa dalli** Baker, West of Cleveland! (Allen).
- Lymnæa—modicella** Say, is a var. of **humilis**, Say, not of **obrussa**, t. Baker.
- Lymnæa humilis rustica** Lea: Poland (type locality).
- Lymnæa humilis** Say, typical, is not in Ohio, t. Baker.
- Lymnæa obrussa** Say, has to take the place of **L. desdiosa**, Say, which is a var. of **palustris**, t. Baker.
- Lymnæa elodes** Say, distinct from **palustris**, Müller, t. Baker; various parts of the State.
- L. elodes jolietensis** Baker. Poland, Mahoning Co.; Akron (B. Walker); La Grange, Lorain Co. (B. Walker).
- Lymnæa reflexa walkeri** Baker. Near Cincinnati. (Lea).
- Lymnæa exilis** Lea, = **L. zebra**, Tryon, distinct from **L. reflexa** Say, t. Baker; Cincinnati; Poland, Mahoning Co.; pond near Congress Lake (Walker); Hudson (Rush).
- Lymnæa kirtlandiana** Lea, a distinct species, t. Baker; Portage Co. (Dean); Garrettsville, Portage Co. (t. Hinkley, Walker).
- Lymnæa lanceata** Gould. Hudson! (Walker, Rush); Lucas Co. (Goodrich.)
- Planorbis trivolvis binneyi** Tryon. Near Hudson, Summit Co.! (Rush); Mantua, Portage Co. (Allen); Lucas Co. (Goodrich).
- Planorbis multilineatus** Vanatta, appears to be not distinct from **dilatatus**, Gould.
- Planorbis deflectus** Say, needs revision.
- Segmentina crassilabris** Walker. Wood Co.! (Goodrich).
- Vivapara contectoides** W. G. Binney. A specimen is said to have been found in Sandusky Bay.
- Campeloma integrum** Say is a var. of **decisum** Say.
- Ammicola letsoni** Walker. Toledo! (Goodrich).—**Amn.**—"sp." is still undescribed.
- Lampsilis ovata** (Say) is a form, or var., of **ventricosa** Barnes.
- Quadrula hippopœa** Lea is a form of **undulata** Barnes, not of **plicata** Say.
- Quadrula schoolcraftensis** Lea appears to be distinct from **pustulosa**; Tiffin Riv. (Goodrich, St.); Lake Erie at Toledo (Goodrich); Ohio River, rare (St.).
- Quadrula pustulosa kleineriana** Lea is a southern form, not in Ohio.
- Sphærium simile** Say must be **S. sulcatum** Lamarck.
- Sphærium acuminatum Prime**. Lake Erie at Toledo and Maumee Riv.! (Goodrich).
- Sphærium ohioense** Sterki. Ohio Riv. at Cincinnati (St.); also in W. Va. and Ind.

- Musculium jayense** Prime. Big Reservoir, Summit Co. (Rush & St.); Midvale, Tuscarawas Co., rare (St.).
- Musculium sphaericum** Anthony. Authentic specimens are in the T. Prime collection, Mus. Comp. Zool., and in the National Museum. A small pond at Wooster (St.); pools near Geauga Lake, and west of Lorain (Allen).
- Musculium parvum** Sterki. Summit, Stark and Tuscarawas Cos. (St.).
- Musculium** "sp." = **rosaceum** Prime. Also: Mishler, Portage Co. (Allen); Hudson (Rush); Turkeyfoot Lake (St.); New Philadelphia (St.).
- Pisidium minusculum** Sterki. Navarre, Stark Co. (St.).
- Pisidium regulare** Prime. Cuyahoga and Geauga Cos. (Allen); Lucas Co. (Goodrich); Cincinnati (Anthony collection).
- Pisidium subrotundum** Sterki. Hudson (Rush, St.); ditch on Congress Lake (St.).
- Pisidium tenuissimum** Sterki. Turkeyfoot and Springfield Lakes (St.), rather different from the typical Michigan form.
- Pisidium trapezoideum** Sterki, in the catalogue, is probably a form of **P. neglectum**. (Typical **trapezoideum** is eastern).

INTRODUCED SPECIES.

- Arion hortensis** Ferusac. Storrs and Harrison's nurseries, Painesville (St.).
- Stenogyra octona** Chemnitz. Greenhouses at Painesville, and Akron (St.).
- Lymnæa (Radix) auricularia** Linne. Toledo! (Goodrich).
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