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 Lymnaea, 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 pygmaea: (Draparnaud): Hudson, woods, and abundant in town lawns! (Rush).

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

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

Lymnaea stagnalis appressa Say is the typical American form.

Lymnaea columella casta Lea: Poland (type locality); Kent (Dean, St.).
Lymnaea sterktii Baker, is a var. of parva Lea, t. Baker.
Lymnaea dalli Baker, West of Cleveland! (Allen).
Lymnaea—modicella Say, is a var. of humilis, Say, not of obrussa, t. Baker.
Lymnaea humilis rustica Lea: Poland (type locality).
Lymnaea humilis Say, typical, is not in Ohio, t. Baker.
Lymnaea obrussa Say, has to take the place of L. desdiosa, Say, which is a var. of palustris, t. Baker.
Lymnaea elodes Say, distinct from palustris, Müller, t. Baker; various parts of the State.
Lymnaea exilis Lea, = L. zebra, Tryon, distinct from L. reflexa Say, t. Baker; Cincinnati; Poland, Mahoning Co.; pond near Congress Lake (Walker); Hudson (Rush).
Lymnaea kirtlandiana Lea, a distinct species, t. Baker; Portage Co. (Dean); Garretsville, Portage Co. (t. Hinkley, Walker).
Lymnaea 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.
Sphaerium simile Say must be S. sulcatum Lamarck.
Sphaerium acuminatum Prime. Lake Erie at Toledo and Maumee Riv.! (Goodrich).
Sphaerium 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.).

Lymnaea (Radix) auricularia Linne. Toledo! (Goodrich).