

PRELIMINARY CHECKLIST OF RECENT AND PLEISTOCENE
MOLLUSCA OF KENTUCKY

DAVID BICKEL

Department of Geology, Ohio State University
and The Ohio State Museum, Columbus, Ohio 43210

INTRODUCTION

The Mollusca of Kentucky have been collected and studied since the early nineteenth century. Early workers, especially Rafinesque at Lexington, Kentucky and Thomas Say at New Harmony, Indiana, recognized Kentucky as a prime collecting ground. Throughout the nineteenth century mollusks from the state were studied by the country's malacologists, most of whom resided in larger eastern cities. These men accumulated their material occasionally by personal collecting, but more often by exchanging specimens with local naturalists or by hiring collectors.

While there have been a few investigations by naturalists within the state, much of the research produced in this century on Kentucky mollusks has still been carried on outside the state at museums and universities where individuals or departments specialize in malacology. Two notable exceptions are William Ray Allen, late Professor of Zoology at the University of Kentucky who was interested in the biology of freshwater mussels, and Leslie Hubricht who during his years of residency in the state and afterward has contributed to a knowledge of the land snail fauna.

The list contains 114 bivalves, 20 aquatic pulmonates, 39 freshwater proso-

branches, and 155 land snails and slugs. This compilation consists only of published records. No new records are included and no formal attempt has been made to verify the records. Species reported from areas surrounding the state, but that probably occur within the state are included in the list preceded by a question mark. A question mark is also placed before a few species that are possibly erroneous records. The bibliography is not complete since some early citations are omitted and twentieth century references are stressed. In most cases the generic nomenclature is quite conservative.

Much of the information on Kentucky mollusks deals with freshwater mussels and land snails. Less has been written about fingernail clams and freshwater snails, with the exception of the Pleuroceridae. The mollusk fauna of the state is poorly known and much more collecting and publication are needed in every mollusk group and geographical area.

ACKNOWLEDGEMENTS

Dr. Aurèle La Rocque suggested this work and provided the beginnings of a Kentucky list. Dr. David Stansbery helped with a few nomenclatorial problems in the freshwater mussels. The final form, as well as any errors and omissions, is the product of the author.

PELECYPODA

Naiadacea (Freshwater Mussels)

- Actinonaias carinata* (Barnes) 1823. Price 1900: 78; Ortmann 1919: 232; Danglade 1922: 5 (*A. ligamentina*); Baker 1928: 218; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Stansbery 1965: 14.
- Actinonaias carinata gibba* Simpson, 1900. Wilson and Clark 1914: 48; Ortmann 1919: 237 (*A. ligamentina gibba*); Neel and Allen 1964: 442.
- Actinonaias ellipsiformis* (Conrad) 1836. Simpson 1914: 128 (in *Lampsilis*); Baker 1928: 263 (in *Ligumia*).
- Actinonaias pectorosa* (Conrad) 1834. Price 1900: 79 (*L. perdix*); Wilson and Clark 1914: 14; Neel and Allen 1964: 442.
- Alasmidonta calceolus* (Lea) 1830. Price 1900: 79 (*A. deltoidea*); Simpson 1914: 496; Baker 1928: 185; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Stansbery 1965: 13.
- Alasmidonta marginata* (Say) 1819. Price 1900: 79 (*A. truncata*); Simpson 1914: 504; Wilson and Clark 1914: 15 (*A. truncata*); Ortmann 1919: 181; Danglade 1922: 5; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 440; Stansbery 1965: 14.
- Alasmidonta minor* (Lea) 1845. Price 1900: 79; Wilson and Clark 1914: 15; Danglade 1922: 5.
- Amblesma costata* (Rafinesque) 1820. Price 1900: 78 (*Quadrula plicata*); Ortmann 1919: 28; Danglade 1922: 5 (*Quadrula undulata*); Baker 1928: 80; Clench and van der Schalie 1944: 224; Rosewater 1959: 61 (in *Crenodonta*); Neel and Allen 1964: 434; Stansbery 1965: 13 (*A. plicata*).
- Amblesma costata rariplicata* (Deshayes) 1830. Walker 1918: 168 (in *Quadrula*).
- Amblesma peruviana* (Lamarck) 1819. Simpson 1914: 814 (*Quadrula plicata* Simpson, non Say); Baker 1928: 73.
- Anodonta grandis* Say, 1829. Price 1900: 79; Simpson 1914: 418; Ortmann 1919: 138; Danglade 1922: 5; Clench and van der Schalie 1944: 225; Rosewater 1959: 62.
- Anodonta imbecillis* Say, 1829. Price 1900: 79; Ortmann 1919: 162 (*A. ohioensis*); Danglade 1922: 5; Baker 1928: 172 (in *Utterbackia*); Clench and van der Schalie 1944: 225.
- Anodontoides ferussacianus* (Lea) 1834. Price 1900: 79; Simpson 1914: 467; Wilson and Clark 1914: 14; Ortmann 1919: 165; Baker 1928: 175.
- Arcidens confragosus* (Say) 1829. Simpson 1914: 475; Clench and van der Schalie 1944: 225.
- Carunculina glans* (Lea) 1834. Simpson 1914: 153 (in *Lampsilis*); Clench and van der Schalie 1944: 225.
- Carunculina moesta* (Lea) 1841. Neel and Allen 1964: 444.
- Carunculina parva* (Barnes) 1823. Price 1900: 78 (in *Lampsilis*); Simpson 1914: 151 (in *Lampsilis*); Ortmann 1919: 258 (in *Toxolusma*); Danglade 1922: 5 (in *Lampsilis*); Baker 1928: 251; Rosewater 1959: 62; Stansbery 1965: 14.
- Cumberlandia monodonta* (Say) 1829. Simpson 1914: 521 (in *Margaritana*); Clench and van der Schalie 1944: 224; Neel and Allen 1964: 432; Stansbery 1965: 13.
- Cyclonaias tuberculata* (Rafinesque) 1820. Simpson 1914: 903 (in *Quadrula*); Wilson and Clark 1914: 15 (*Quadrula tritogonia*); Ortmann 1919: 57 (in *Rotundaria*); Danglade 1922: 5 (in *Tritogonia*); Clench and van der Schalie 1944: 225; Neel and Allen 1964: 436; Stansbery 1965: 13.
- Cyclonaias tuberculata granifera* (Lea) 1838. Price 1900: 78 (in *Unio*); Wilson and Clark 1914: 15 (in *Quadrula*); Danglade 1922: 5 (in *Quadrula*); Neel and Allen 1964: 436.
- Cyprogenia irrorata* (Lea) 1828. Price 1900: 79; Simpson 1914: 326; Wilson and Clark 1914: 15; Ortmann 1919: 218 (*C. stegaria*); Danglade 1922: 5; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 442.
- Dromus dromus* (Lea) 1834. Wilson and Clark 1914: 15; Neel and Allen 1964: 442.
- Dysnomia arcaiformis* (Lea) 1831. Wilson and Clark 1914: 14.
- Dysnomia brevidens* (Lea) 1834. Simpson 1914: 7 (in *Truncilla*); Wilson and Clark 1914: 15 (in *Truncilla*); Clench and van der Schalie 1944: 225; Neel and Allen 1964: 448.

Dysnomia capsaeformis (Lea) 1834. Wilson and Clark 1914: 14 (in *Truncilla*); Neel and Allen 1964: 448.

Dysnomia flexuosa (Rafinesque) 1820. Simpson 1914: 18 (*Truncilla foliata*).

Dysnomia florentina (Lea) 1857. Neel and Allen 1964: 448.

Dysnomia florentina walkeri (Wilson and Clark) 1914. Neel and Allen 1964: 448.

Dysnomia haysiana (Lea) 1833. Neel and Allen 1964: 450.

Dysnomia lewisi (Walker) 1910. Neel and Allen 1964: 450.

Dysnomia personata (Say) 1829. Simpson 1914: 23 (in *Truncilla*).

Dysnomia sulcata (Lea) 1829. Simpson 1914: 14 (in *Truncilla*); Wilson and Clark 1914: 46 (in *Truncilla*); Clench and van der Schalie 1944: 225; Neel and Allen 1964: 450.

Dysnomia torulosa (Rafinesque) 1820. Price 1900: 79 (*Truncilla perplexa*); Simpson 1914: 24 (*T. perplexa*); Ortman and Walker 1922: 69; Stansbery 1965: 14.

Dysnomia torulosa cincinnatiensis (Lea) 1840. Simpson 1914: 26 (in *Truncilla*).

Dysnomia torulosa rangiana (Lea) 1838. Price 1900: 79 (in *Truncilla*); Simpson 1914: 26 (in *Truncilla*); Ortman 1919: 331 (in *Truncilla*); Danglade (1922): 5 (in *Truncilla*).

Dysnomia triquetra (Rafinesque) 1820. Price 1900: 79 (in *Truncilla*); Simpson 1914: 5 (in *Truncilla*); Wilson and Clark 1914: 45 (in *Truncilla*); Ortman 1919: 325; Danglade 1922: 5 (in *Truncilla*); Baker 1928: 296; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 450; Stansbery 1965: 14.

Elliptio crassidens (Lamarck) 1819. Wilson and Clark 1914: 15 (in *Unio*); Ortman 1919: 91 (*E. nigro*); Clench and van der Schalie 1944: 225; Neel and Allen 1964: 438; Stansbery 1965: 13.

Elliptio dilatatus (Rafinesque) 1820. Price 1900: 78 (*Unio gibbosus*); Wilson and Clark 1914: 15 (*Unio gibbosus*); Ortman 1919: 95; Danglade 1922: 5 (*U. gibbosus*); Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 438; Stansbery 1965: 13.

Fusconata ebenus (Lea) 1831. Simpson 1914: 897 (in *Quadrula*); Wilson and Clark 1914: 15 (in *Quadrula*); Clench and van der Schalie 1944: 224.

Fusconata flava (Rafinesque) 1820. Price 1900: 77 (*Quadrula rubiginosa*); Simpson 1914: 872 (*Q. rubiginosa*); Ortman 1919: 14; Baker 1928: 55; Clench and van der Schalie 1944: 224; Rosewater 1959: 61; Neel and Allen 1964: 434; Stansbery 1965: 13.

Fusconata subrotunda (Lea) 1831. Simpson 1914: 892 (in *Quadrula*); Wilson and Clark 1914: 15; Ortman 1919: 7; Danglade 1922: 5 (*Quadrula kirtlandiana*); Clench and van der Schalie 1944: 224; Neel and Allen 1964: 434; Stansbery 1965: 13.

Fusconata undata (Barnes) 1823. Simpson 1914: 880 (in *Quadrula*); Wilson and Clark 1914: 15 (in *Quadrula*); Clench and van der Schalie 1944: 224; Neel and Allen 1964: 434.

Fusconata undata trigona (Lea) 1831. Price 1900: 77 (in *Quadrula*); Baker 1928: 63.

Lampsilis anodontooides (Lea) 1831. Price 1900: 78; Simpson 1914: 90; Wilson and Clark 1914: 14; Danglade 1922: 5; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Stansbery 1965: 14.

Lampsilis anodontooides fallaciosa (Smith) 1899. Simpson 1914: 92; Wilson and Clark 1914: 14; Danglade 1922: 5; Clench and van der Schalie 1944: 225.

Lampsilis fasciata Rafinesque, 1820. Price 1900: 78 (*L. multiradiata*); Simpson 1914: 55 (*L. multiradiata*); Wilson and Clark 1914: 48 (*L. multiradiata*); Ortman 1919: 309; Danglade 1922: 5 (*L. multiradiata*); Clench and van der Schalie 1944: 225; Neel and Allen 1964: 446; Stansbery 1965: 14.

Lampsilis orbiculata (Hildreth) 1828. Simpson 1914: 76; Wilson and Clark 1914: 49; Ortman 1919: 320; Neel and Allen 1964: 448.

Lampsilis ovata (Say) 1817. Price 1900: 78; Simpson 1914: 48; Wilson and Clark 1914: 14; Ortman 1919: 297; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 448; Stansbery 1965: 14.

Lampsilis ovata ventricosa (Barnes) 1823. Price 1900: 78; Simpson 1914: 38; Ortman 1919: 301; Danglade 1922: 5; Baker 1928: 281; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 448; Stansbery 1965: 14.

Lampsilis radiata stliquoides (Barnes) 1823. Price 1900: 78 (*L. luteolus*); Simpo

son 1914: 60 (*L. luteola*); Ortmann 1919: 283 (*L. luteola*); Danglade 1922: 5; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Stansbery 1965: 14.

Lasmigona complanata (Barnes) 1823. Simpson 1914: 490 (in *Symphynota*); Wilson and Clark 1914: 15 (in *Symphynota*); Ortmann 1919: 133; Danglade 1922: 5 (in *Symphynota*); Clench and van der Schalie 1944: 225; Rosewater 1959: 62.

Lasmigona compressa (Lea) 1829. Simpson 1914: 481; Walker 1918: 177; Ortmann 1919: 116 (*L. viridis*); Ortmann and Walker 1922: 34; Clench and van der Schalie 1944: 225.

Lasmigona costata (Rafinesque) 1820. Price 1900: 79 (*Alasmidonta rugosa*); Simpson 1914: 488 (in *Symphynota*); Wilson and Clark 1914: 15 (in *Symphynota*); Ortmann 1919: 125; Danglade 1922: 5 (in *Symphynota*); Baker 1928: 141; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 440; Stansbery 1965: 13.

Lastena lata (Rafinesque) 1820. Simpson 1914: 453; Wilson and Clark 1914: 15; Neel and Allen 1964: 438; Stansbery 1965: 13.

Leptodea fragilis (Rafinesque) 1820. Price 1900: 78 (*Lampsilis gracilis*); Simpson 1914: 181 (*L. gracilis*); Wilson and Clark 1914: 14 (*L. gracilis*); Ortmann 1919: 247 (*Paraptera gracilis*); Danglade 1922: 5 (*L. gracilis*); Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 444; Stansbery 1965: 14.

Leptodea leptodon (Rafinesque) 1820. Simpson 1914: 188 (in *Lampsilis*); Ortmann and Walker 1922: 52; Baker 1928: 239; Neel and Allen 1964: 444; Stansbery 1965: 14.

Ligumia recta latissima (Rafinesque) 1820. Price 1900: 78 (in *Lampsilis*); Wilson and Clark 1914: 14; Walker 1918: 184; Ortmann 1919: 276 (in *Eurynia*); Danglade 1922: 5 (in *Lampsilis*); Baker 1928: 257; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 446; Stansbery 1965: 14.

Ligumia subrostrata (Say) 1831. Price 1900: 78 (in *Lampsilis*); Simpson 1914: 99 (in *Lampsilis*).

Medionidus conradicus (Lea) 1834. Wilson and Clark 1914: 14; Neel and Allen 1964: 444.

Megalonatus gigantea (Barnes) 1823. Price 1900: 77 (*Quadrula heros*); Simpson 1914: 825 (*Q. heros*); Wilson and Clark 1914: 15 (*Q. heros*); Danglade 1922: 5 (*Q. heros*); Baker 1928: 69; Clench and van der Schalie 1944: 224; Rosewater 1959: 61 (in *Crenodonta*); Neel and Allen 1964: 434; Stansbery 1965: 13.

Obliguaria reflexa Rafinesque, 1820. Price 1900: 79; Simpson 1914: 330; Wilson and Clark 1914: 15; Ortmann 1919: 214; Danglade 1922: 5; Baker 1928: 210; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 440.

Obovaria olivaria (Rafinesque) 1820. Simpson 1914: 299 (*O. ellipsis*); Wilson and Clark 1914: 14; Ortmann 1919: 223; Baker 1928: 214.

Obovaria subrotunda (Rafinesque) 1820. Price 1900: 79 (*O. circularis*); Simpson 1914: 291 (*O. circularis*); Wilson and Clark 1914: 14 (*O. circularis*); Ortmann 1919: 223; Danglade 1922: 5 (in *Quadrula*); Clench and van der Schalie 1944: 225; Neel and Allen 1964: 442; Stansbery 1965: 14.

Obovaria subrotunda lens (Lea) 1831. Price 1900: 79 (in *Obliguaria*); Simpson 1914: 293; Danglade 1922: 5; Goodrich and van der Schalie 1944: 318.

Obovaria subrotunda levigata (Rafinesque) 1820. Ortmann 1919: 226.

Pegias fabula (Lea) 1836. Wilson and Clark 1914: 15; Neel and Allen 1964: 440.

Plagiola lineolata Rafinesque, 1820. Price 1900: 78 (*P. securis*); Simpson 1914: 304 (*P. securis*); Wilson and Clark 1914: 14 (*P. securis*); Ortmann 1919: 243; Baker 1928: 231; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 444.

Plethobasus cicatricosus (Say) 1829. Simpson 1914: 807 (in *Pleurobema*).

Plethobasus cooperianus (Lea) 1834. Price 1900: 78 (in *Quadrula*); Wilson and Clark 1914: 15 (in *Quadrula*); Ortmann 1919: 62; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 436.

Plethobasus cyphus (Rafinesque) 1820. Price 1900: 79 (*Pleurobema aesopus*); Wilson and Clark 1914: 15 (*P. aesopus*); Ortmann 1919: 65; Baker 1928: 110; Neel and Allen 1964: 436; Stansbery 1965: 13.

Pleurobema clava (Lamarck) 1819. Price 1900: 79; Wilson and Clark 1914: 15; Ortmann 1919: 86; Danglade 1922: 5.

Pleurobema cordatum (Rafinesque) 1820. Price 1900: 78 (in *Quadrula*); Simpson 1914: 881; Wilson and Clark 1914: 15 (*Q. obliqua*); Ortmann 1919: 69; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 436; Stansbery 1965: 13.

Pleurobema cordatum catillus (Conrad) 1836. Price 1900: 78 (*Quadrula solida*); Simpson 1914: 885 (*Q. solida*); Wilson and Clark 1914: 15 (*Q. solida*); Ortmann 1919: 75 (*P. obliquum catillus*); Danglade 1922: 5 (*Q. solida*); Clench and van der Schalie 1944: 225.

Pleurobema cordatum coccineum (Conrad) 1836. Price 1900: 78 (in *Quadrula*); Simpson 1914: 833 (in *Quadrula*); Wilson and Clark 1914: 15 (in *Quadrula*); Ortmann 1919: 78 (*P. obliquum coccineum*); Danglade 1922: 5 (in *Quadrula*); Clench and van der Schalie 1944: 225; Neel and Allen 1964: 438; Stansbery 1965: 13.

Pleurobema cordatum plenum (Lea) 1840. Simpson 1914: 886 (in *Quadrula*); Wilson and Clark 1914: 15 (in *Quadrula*); Neel and Allen 1964: 436.

Pleurobema cordatum pyramidatum (Lea) 1834. Price 1900: 77 (in *Quadrula*); Simpson 1914: 888 (in *Quadrula*); Wilson and Clark 1914: 15 (in *Quadrula*); Ortmann 1919: 84 (*P. obliquum rubrum*); Clench and van der Schalie 1944: 225; Stansbery 1965: 13.

(?) *Pleurobema edgariana* (Lea) 1840. Price 1900: 79, doubtful.

Pleurobema oviforme (Conrad) 1834. Neel and Allen 1964: 438.

Pleurobema patula (Lea) 1829. Morrison 1943: 16.

Proptera alata Rafinesque, 1820. Price 1900: 78 (in *Lampsilis*); Simpson 1914: 162 (in *Lampsilis*); Wilson and Clark 1914: 14 (in *Lampsilis*); Ortmann 1919: 252; Danglade 1922: 5; Baker 1928: 244; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 444; Stansbery 1965: 14.

Proptera capax (Green) 1832. Simpson 1914: 47 (in *Lampsilis*); Baker 1928: 248.

Proptera laevis (Lea) 1830. Simpson 1914: 183 (in *Lampsilis*); Baker 1928: 247; Neel and Allen 1964: 444; Stansbery 1965: 14.

Ptychobranthus fasciolare Rafinesque 1820. Price 1900: 79 (*P. phaseolus*); Simpson 1914: 333 (*P. phaseolus*); Wilson and

Clark 1914: 15 (*P. phaseolus*); Ortmann 1919: 208 (in *Ellipsaria*); Danglade 1922: 5 (*P. phaseolus*); Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 440; Stansbery 1965: 14.

Ptychobranthus subtentum (Say) 1825. Wilson and Clark 1914: 15.

Quadrula cylindrica (Say) 1817. Price 1900: 78; Simpson 1914: 832; Wilson and Clark 1914: 15; Ortmann 1919: 52; Danglade 1922: 5; Clench and van der Schalie 1944: 225; Neel and Allen 1964: 434; Stansbery 1965: 13.

Quadrula fragosa (Conrad) 1836. Simpson 1914: 843; Wilson and Clark 1914: 15.

Quadrula metanevra Rafinesque, 1820. Price 1900: 78; Simpson 1914: 834; Wilson and Clark 1914: 15; Neel and Allen 1964: 434; Stansbery 1965: 13.

Quadrula nodulata Rafinesque, 1820. Simpson 1914: 856 (*Q. pustulata*); Danglade 1922: 5 (*Q. pustulata*); Clench and van der Schalie 1944: 225.

Quadrula pustulosa (Lea) 1831. Price 1900: 78; Simpson 1914: 848; Wilson and Clark 1914: 15; Danglade 1922: 5; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 434; Stansbery 1965: 13.

Quadrula quadrula Rafinesque, 1820. Price 1900: 78 (*Q. lachrymosa*); Simpson 1914: 841 (*Q. lachrymosa*); Danglade 1922: 5 (*Q. lachrymosa*); Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Stansbery 1965: 13.

Simpsoniconcha ambigua (Say) 1825. Simpson 1914: 326 (in *Hemilastena*); Ortmann 1919: 136; Stansbery 1965: 14.

Strophitus rugosus (Swainson) 1822. Price 1900: 79 (*S. edentulus*); Simpson 1914: 345; Wilson and Clark 1914: 15 (*S. edentulus*); Ortmann 1919: 197; Danglade 1922: 5 (*S. edentulus*); Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 440; Stansbery 1965: 14 (*S. undulatus*).

Tritogonia verrucosa (Rafinesque) 1820. Price 1900: 79; Simpson 1914: 318 (*Quadrula tuberculata*); Wilson and Clark 1914: 15 (*Q. tuberculata*); Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 436; Stansbery 1965: 13.

Truncella donaciformis (Lea) 1828.

Price 1900: 78 (in *Plagiola*); Simpson 1914: 308 (in *Plagiola*); Wilson and Clark 1914: 15 (in *Plagiola*); Ortmann 1919: 241 (in *Amygdalonaïas*); Danglade 1922: 5 (in *Plagiola*); Baker 1928: 228; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 444.

Truncilla truncata Rafinesque, 1820. Price 1900: 78 (*Plagiola elegans*); Simpson 1914: 306 (*P. elegans*); Wilson and Clark 1914: 15 (*P. elegans*); Ortmann 1919: 238 (in *Amygdalonaïas*); Danglade 1922: 5 (*P. elegans*); Baker 1928: 224; Clench and van der Schalie 1944: 225; Rosewater 1959: 62; Neel and Allen 1964: 444; Stansbery 1965: 14.

Uniomorus tetralasmus (Say) 1830. Simpson 1914: 704.

Villosa fabalis (Lea) 1831. Price 1900: 79 (*Micromya lapillus*); Simpson 1914: 33 (in *Micromya*); Ortmann 1919: 262 (in *Eurynia*); Stansbery 1965: 14.

Villosa iris (Lea) 1830. Price 1900: 78 (in *Lampsilis*); Simpson 1914: 113 (in *Lampsilis*); Ortmann 1919: 265 (in *Eurynia*).

Villosa lienosa (Conrad) 1834. Price 1900: 78 (*Lampsilis caliginosus*); Simpson 1914: 100 (in *Lampsilis*); Wilson and Clark 1914: 14 (in *Lampsilis*); Ortmann 1924: 140 (in *Micromya*); Clench and van der Schalie 1944: 225 (in *Micromya*); Rosewater 1959: 62; Stansbery 1966: 14.

Villosa nebulosa (Conrad) 1834. Price 1900: 78 (*Lampsilis cumberlandicus*); Simpson 1914: 119 (in *Lampsilis*); Clench and van der Schalie 1944: 225 (in *Micromya*); Neel and Allen 1964: 446 (in *Micromya*).

Villosa ortmanni (Walker) 1925. Clench 1926: 67 (in *Micromya*); Clench and van der Schalie 1944: 225 (in *Micromya*); Stansbery 1965: 14.

Villosa picta (Conrad) 1834. Wilson and Clark 1914: 14 (in *Lampsilis*); Neel and Allen 1964: 446 (in *Micromya*).

Villosa trabalis (Conrad) 1834. Wilson and Clark 1914: 14 (in *Lampsilis*); Neel and Allen 1964: 446 (in *Micromya*).

Villosa vanuxemensis (Lea) 1838. Price 1900: 78 (in *Lampsilis*); Simpson 1914: 105 (in *Lampsilis*); Walker 1925: 2 (in *Micromya*); Clench 1926: 67 (in *Eurynia*); Neel and Allen 1964: 446 (in *Micromya*).

Sphaeriidae (Fingernail clams)

Pisidium casertanum (Poli) 1791. Bickel 1966: 20.

Pisidium dubium (Say) 1816. Price 1900: 79.

Pisidium fraudulentum Sterki, 1912. Sterki 1916: 451.

Sphaerium fabale (Prime) 1851. Price 1900: 79.

Sphaerium partumeium (Say) 1822. Price 1900: 79.

Sphaerium strictinum (Lamarck) 1818. Sterki 1916: 436 (*S. modestum*); Baker 1928: 324 (*S. solidulum*); Rosewater 1959: 62; Herrington 1962: 28.

Sphaerium sulcatum (Lamarck) 1818. Price 1900: 79.

Sphaerium transversum (Say) 1829. Price 1900: 79; Herrington 1952: 30.

Corbiculidae (Asiatic clam)

Corbicula manilensis Philippi, 1844. Sinclair and Isom 1961: 1 (*C. fluminea*); Bates 1962: 35 (*C. fluminea*); Keup et al. 1963: 18 (*C. fluminea*); Bickel 1966: 19.

GASTROPODA

Prosobranchia (Freshwater operculates)

Ammicola cincinnatiensis (Anthony) 1840. Call 1900: 416.

Ammicola emarginata (Küster) 1852. Baker 1928: 126 (in *Cincinnatia*).

Ammicola integra (Say) 1821. Bickel 1965: 17.

Anculosa praerosa (Say) 1824. Goodrich 1929: 10; Goodrich 1940: 20.

Antroselates spiralis Hubricht, 1963. Hubricht 1963b: 138.

Campeloma crassula Rafinesque, 1819. Rosewater 1959: 61 (*C. ponderosa*); Clench 1962a: 277; Bickel 1966b: 106.

Goniobasis costifera (Haldeman) 1841. Goodrich 1940: 15.

- Goniobasis curkeyana* (Lea) 1841. Goodrich 1940: 15.
- Goniobasis ebenum* (Lea) 1841. Goodrich 1934c: 5; Goodrich 1940: 17.
- Goniobasis ebenum emeryensis* (Lea) 1864. Goodrich 1940: 18.
- Goniobasis laqueata costulata* (Lea) 1841. Goodrich 1940: 14.
- Goniobasis plicata-striata* Wetherby, 1876. Goodrich 1940: 16.
- Goniobasis semicarinata* (Say) 1829. Goodrich 1938: 9; Goodrich 1940: 18. Rosewater 1959: 61.
- Lioplax sulculosa* (Menke) 1828. Clench and Turner 1955: 5; Rosewater 1959: 61; Clench 1962b: 288.
- Lithasia geniculata* Haldeman, 1840. Goodrich 1940: 5.
- Lithasia obovata* (Say) 1829. Goodrich 1929: 1; Goodrich 1934a: 2; Goodrich 1940: 6; Rosewater 1959: 61.
- Lithasia obovata consanguinea* (Anthony) 1854. Goodrich 1934a: 3; Goodrich 1940: 6.
- Lithasia obovata curvilabris* (Anthony) 1854. Goodrich 1934a: 3; Goodrich 1940: 6.
- Lithasia obovata depygis* (Say) 1830. Goodrich 1934a: 4; Goodrich 1940: 6.
- Lithasia obovata microlineata* (Goodrich) 1921. Goodrich 1921: 4; Goodrich 1934a: 3; Goodrich 1940: 6.
- Lithasia obovata planospira* (Anthony) 1854. Goodrich 1934a: 3; Goodrich 1940: 7.
- Lithasia obovata sordida* (Lea) 1841. Goodrich 1934a: 3; Goodrich 1940: 7.
- Lithasia obovata undosa* (Anthony) 1854. Goodrich 1934a: 3; Goodrich 1940: 6.
- Lithasia plicata* Wetherby, 1876. Walker 1918: 150; Goodrich 1940: 7.
- Lithasia salebrosa* (Conrad) 1834. Goodrich 1940: 4.
- Lithasia verrucosa* (Rafinesque) 1820. Goodrich 1940: 5.
- Nitocris trilineata* (Say) 1829. Goodrich 1929: 14 (in *Anculosa*); Goodrich 1940: 20.
- Pleurocera acutum* Rafinesque, 1831. Rosewater 1959: 61; Dazo 1965: 4.
- Pleurocera alveare* (Conrad) 1854. Goodrich 1940: 8.
- Pleurocera canaliculatum* (Say) 1821. Goodrich 1929: 7; Goodrich 1934b: 3; Goodrich 1940: 9; Rosewater 1959: 61.
- Pleurocera canaliculatum excuratum* (Conrad) 1834. Goodrich 1940: 10.
- Pleurocera canaliculatum filium* (Lea) 1845. Goodrich 1938: 3.
- Pleurocera canaliculatum undulatum* (Say) 1829. Goodrich 1937: 6; Goodrich 1940: 9; Goodrich 1941: 7.
- Pleurocera curtum* (Haldeman) 1841. Goodrich 1940: 7.
- Pomatopsis lapidaria* (Say) 1817. Kaplan and Minckley 1960: 65; Browne and Bruder 1963: 53; Hubricht 1964c: 3.
- Somatogyrus integer* (Say) 1840. Baker 1898: 342.
- Somatogyrus subglobosus isogonus* (Say) 1829. Baker 1928: 159 (in *Birgella*); Bickel 1965: 17.
- Somatogyrus trothis* Doherty, 18783. Walker 1918: 146.
- Viviparus georgianus* (Lea) 1834. Clench 1962a: 271.

Pulmonata (Freshwater Pulmonates)

- Ferrissia fragilis* (Tryon) 1863. Bickel 1965: 17.
- Ferrissia rivularis* (Say) 1819. Price 1900: 77 (in *Ancylus*).
- Fossaria dalli* (Baker) 1906. Browne and Bruder 1963: 54.
- Fossaria humilis* (Say) 1822. Price 1900: 76 (in *Lymnaea*); Rosewater 1959: 61 (in *Lymnaea*).
- Fossaria modicella* (Say) 1825. Browne and Bruder 1963: 53.
- Fossaria obrussa* (Say) 1825. Browne and Bruder 1963: 53.
- Fossaria parva* (Lea) 1841. Baker 1911: 243; Baker 1928: 285; Browne and Bruder 1963: 57.
- Gyraulus parvus* (Say) 1817. Price 1900: 76 (in *Planorbis*).
- Helisoma anceps* (Menke) 1830. Price 1900: 76 (in *Planorbis*).
- Helisoma trivolvis* (Say) 1817. Price 1900: 76 (in *Planorbis*).
- Physa anatina* Lea, 1869. Browne and Bruder 1963: 55.
- Physa gyrina* Say, 1821. Price 1900: 77.
- Physa heterostropha* Say, 1819. Price 1900: 77.

Physa integra Haldeman, 1841. Rosewater 1959: 61; Bickel 1965: 17.
Physa pomilia Conrad, 1834. Price 1900: 77.
Promenetus exacuus (Say) 1821. Bickel 1965: 17.
Pseudosuccinea columella (Say) 1817. Rosewater 1959: 61 (in *Hymnaea*)
Rhodacmea elatior (Anthony) 1855. Walker 1918: 122.
 (?) *Rhodacmea hinkleyi* (Walker) 1908. Basch 1963: 415, implied.
Stagnicola desidiosa (Say) 1821. Baker 1898: 267.

Pulmonata (Land Mollusks)

Allogona profunda (Say) 1824. Pilsbry 1940: 877; Browne and McDonald 1960: 175; Browne and Bruder 1963: 55; Hubricht 1964c: 3.
Allogona profunda pleistocenica Baker, 1920. Browne and Bruder 1963: 55.
Anguispira alternata (Say) 1816. Pilsbry 1948: 568, implied; Kaplan and Minckley 1960: 64; Browne and McDonald 1960: 174; Browne and Bruder 1963: 53; Hubricht 1964c: 3.
Anguispira knoxensis (Pilsbry) 1901. Hubricht 1954: 92.
Anguispira kochi (Pfeiffer) 1845. Pilsbry 1948: 591; Conkin 1959: 11; Kaplan and Minckley 1960: 64; Hubricht 1964c: 3.
Bulinulus dealbatus (Say) 1821. Pilsbry 1946: 7.
Carychium exiguum (Say) 1822. Pilsbry 1948: 1052, implied; Kaplan and Minckley 1960: 68; Hubricht 1963a: 108.
Carychium exile H. C. Lea, 1842. Pilsbry 1948: 1058; Browne and Bruder 1963: 54; Hubricht 1964b: 34.
Carychium stygium Call, 1897. Pilsbry 1948: 1054; Hubricht 1960: 35.
Cepaea nemoralis (Linnaeus) 1798. Blacklee 1945: 45; Reed 1964: 12.
Cionella lubrica morseana Doherty, 1878. Pilsbry 1948: 1049; Kaplan and Minckley 1960: 65.
Columella alticola (Ingersoll) 1875. Browne and McDonald 1960: 174; Browne and Bruder 1963: 53.

(?) *Columella edentula* (Draparnaud) 1805. Pilsbry 1948: 1002, implied.
Deroceras aenigma Leonard, 1950. Browne and Bruder 1963: 55.
Deroceras laeve (Müller) 1774. Browne and Bruder 1963: 53.
 (?) *Deroceras reticulatum* (Müller) 1774. Pilsbry 1948: 534, implied.
Discus cronkhitei (Newcomb) 1865. Pilsbry 1948: 600; Browne and McDonald 1960: 174; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 54.
Discus cronkhitei catskillensis (Pilsbry) 1898. Browne and Bruder 1963: 53.
Discus patulus (Deshayes) 1830. Pilsbry 1948: 608; Hubricht 1964c: 3.
Euconulus chersinus (Say) 1821. Pilsbry 1946: 239, implied; Kaplan and Minckley 1960: 64.
 (?) *Euconulus chersinus dentatus* (Sterki) 1893. Pilsbry 1946: 242, implied.
Euconulus fulvus (Müller) 1774. Pilsbry 1946: 235, implied; Browne and McDonald 1960: 175; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53.
Gastrocopta armifera (Say) 1821. Pilsbry 1948: 874, implied; Browne and McDonald 1960: 174; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53.
 (?) *Gastrocopta armifera abbreviata* (Sterki) 1909. Pilsbry 1948: 877, implied.
Gastrocopta contracta (Say) 1822. Kaplan and Minckley 1960: 65; Browne and Bruder 1963: 56; Hubricht 1964b: 34.
 (?) *Gastrocopta corticaria* (Say) 1816. Pilsbry 1948: 894, implied.
Gastrocopta pentodon (Say) 1821. Pilsbry 1948: 866, implied; Kaplan and Minckley 1960: 65; Browne and Bruder 1963: 56.
Gastrocopta procera (Gould) 1840. Pilsbry 1948: 907, implied; Kaplan and Minckley 1960: 65.
Gastrocopta tappaniana (C. B. Adams) 1842. Pilsbry 1948: 889, implied; Kaplan and Minckley 1960: 65; Browne and Bruder 1963: 54.
Guppya sterki (Dall) 1888. Pilsbry 1946: 245.
Haplotrema concavum (Say) 1821. Pilsbry 1946: 208; Conkin 1959: 11; Browne and McDonald 1960: 175; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53.

- Hawaiiia minuscula* (Binney) 1840. Pilsbry 1946: 420; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53.
- Helicodiscus barri* Hubricht, 1962. Hubricht 1962a: 105; Hubricht 1964b: 34.
- Helicodiscus hadenœcus* Hubricht, 1962. Hubricht 1962a: 106; Hubricht 1964b: 34.
- Helicodiscus inermis* H.B. Baker, 1929. Hubricht 1964b: 34.
- Helicodiscus notius* Hubricht, 1962. Hubricht 1962a: 104; Hubricht 1964b: 34.
- Helicodiscus notius specus* Hubricht, 1962. Hubricht 1962a: 105; Hubricht 1964b: 34.
- Helicodiscus parallelus* (Say) 1821. Pilsbry 1948: 625; Browne and McDonald 1960: 174; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53.
- Helicodiscus punctatellus* Morrison, 1942. Pilsbry 1948: 640; Hubricht 1962a: 106; Hubricht 1964b: 34.
- Helicodiscus singleyanus* (Pilsbry) 1890. Pilsbry 1948: 636, implied; Kaplan and Minckley 1960: 64.
- (?) *Helicodiscus singleyanus inermis* H.B. Baker, 1929. Pilsbry 1948: 637, implied.
- Hendersonia occulta* (Say) 1831. Pilsbry 1948: 1087, implied; Browne and McDonald 1960: 175; Browne and Bruder 1963: 53; Hubricht 1964c: 3.
- (?) *Limax flavus* Linnaeus, 1758. Pilsbry 1948: 528, implied.
- Mesodon andrewsae normalis* (Pilsbry) 1900. Hubricht 1950: 106.
- Mesodon appressus* (Say) 1821. Pilsbry 1940: 749; Hubricht 1964b: 33; Hubricht 1964c: 3.
- Mesodon clausus* (Say) 1821. Pilsbry 1940: 712; Kaplan and Minckley 1960: 63; Browne and Bruder 1963: 55; Hubricht 1964c: 3.
- Mesodon downieanus* (Bland) 1861. Pilsbry 1940: 716.
- Mesodon elevatus* (Say) 1821. Pilsbry 1940: 727; Conkin 1957: 11; Kaplan and Minckley 1960: 63; Browne and Bruder 1963: 54.
- Mesodon inflectus* (Say) 1821. Pilsbry 1940: 770; Conkin 1957: 11; Kaplan and Minckley 1960: 63; Browne and Bruder 1963: 55; Hubricht 1964b: 33.
- Mesodon mitchellianus* (Lea) 1839. Pilsbry 1940: 715.
- Mesodon rugeli* (Shuttleworth) 1852. Pilsbry 1940: 767; Hubricht 1964b: 33; Hubricht 1964c: 3.
- Mesodon sayanus* (Pilsbry) 1906. Pilsbry 1940: 762.
- Mesodon thyroidus* (Say) 1816. Pilsbry 1940: 706, implied; Conkin 1957: 11; Kaplan and Minckley 1960: 63.
- Mesodon wetherbyi* (Bland) 1873. Pilsbry 1940: 757.
- Mesodon zaletus* (Binney) 1837. Pilsbry 1940: 722; Kaplan and Minckley 1960: 63; Hubricht 1964c: 3.
- Mesomphix anurus* Hubricht, 1962. Hubricht 1962b: 2.
- Mesomphix cupreus* (Rafinesque) 1831. Pilsbry 1946: 333.
- Mesomphix cupreus miktus* Pilsbry, 1946. Pilsbry 1946: 339.
- Mesomphix derochetus* Hubricht, 1962. Hubricht 1962b: 4.
- Mesomphix friabilis* (W.G. Binney) 1857. Pilsbry 1946: 328; Kaplan and Minckley 1960: 64; Hubricht 1964c: 3.
- Mesomphix inornatus* (Say) 1821. Pilsbry 1946: 307; Kaplan and Minckley 1960: 64.
- Mesomphix latior* (Pilsbry) 1900. Pilsbry 1946: 321.
- Mesomphix latior monticola* (Pilsbry) 1911. Pilsbry 1946: 322.
- Mesomphix perlaevis* (Pilsbry) 1900. Pilsbry 1946: 319; Hubricht 1962b: 5.
- Mesomphix ruidus* Hubricht, 1958. Hubricht 1958a: 74; Hubricht 1962b: 7.
- Mesomphix vulgatus* H. B. Baker, 1933. Pilsbry 1946: 324; Kaplan and Minckley 1960: 64; Hubricht 1962b: 1; Hubricht 1964c: 3.
- Oxyloma decampi gouldi* Pilsbry, 1948. Browne and Bruder 1963: 55.
- Oxyloma decampi peoriensis* (Walker) 1892. Browne and Bruder 1963: 55.
- Oxyloma retusa* (Lea) 1834. Kaplan and Minckley 1960: 64.
- Pallifera wetherbyi* W.G. Binney, 1874. Pilsbry 1948: 769; Hubricht 1950: 106.
- Paravitrea capsella* (Gould) 1851. Pilsbry 1946: 374.
- Paravitrea multidentata* (Binney) 1840. Pilsbry 1946: 352; Kaplan and Minckley 1960: 64.
- Paravitrea petrophila* (Bland) 1883. Pilsbry 1946: 385.

- Paravitrea placentula lithodora* Pilsbry, 1946. Pilsbry 1946: 371.
- Paravitrea tantilla* Hubricht, 1963. Hubricht 1963c: 141.
- Philomycus carolinianus* (Bosc) 1802. Pilsbry 1948: 753.
- Philomycus carolinianus flexuolaris* Rafinesque, 1820. Pilsbry 1948: 756.
- Polygyra fatigiata* Say, 1829. Pilsbry 1940: 628.
- Polygyra leporina* (Gould) 1848. Pilsbry 1940: 611.
- Polygyra plicata* Say, 1821. Pilsbry 1940: 626; Kaplan and Minckley 1960: 63; Hubricht 1964c: 3.
- Punctum minutissimum* (Lea) 1841. Pilsbry 1948: 644; Browne and McDonald 1960: 174; Browne and Bruder 1963: 53.
- Punctum smithi* Morrison, 1935. Pilsbry 1948: 654.
- (?) *Punctum vitreum* H. B. Baker, 1930. Pilsbry 1948: 649.
- Pupoides albilabris* (C.B. Adams) 1841. Pilsbry 1948: 921, implied; Browne and McDonald 1960: 175; Kaplan and Minckley 1960: 65.
- Quickella vermeta* (Say) 1817. Hubricht 1958b: 60.
- Retinella* cf. *R. binneyana* (Morse) 1864. Browne and McDonald 1960: 175.
- Retinella cryptomphala* (Clapp) 1915. Hubricht 1964b: 33 (in *Glyphyalinia*).
- Retinella cryptomphala solida* H. B. Baker 1930. Pilsbry 1946: 298.
- Retinella cumberlandiana* (Clapp) 1919. Pilsbry 1946: 269.
- Retinella cumberlandiana roanensis* H. B. Baker, 1930. Pilsbry 1946: 271.
- Retinella electrina* (Gould) 1841. Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53.
- Retinella indentata* (Say) 1823. Pilsbry 1946: 288, implied; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53; Hubricht 1964c: 3 (in *Glyphyalinia*).
- Retinella paucilirata* (Morelet) 1851. Pilsbry 1946: 291; Hubricht 1964b: 33 (in *Glyphyalinia*).
- Retinella praecox* H. B. Baker, 1930. Pilsbry 1946: 299.
- Retinella sculptilis* (Bland) 1858. Hubricht 1964b: 34 (in *Glyphyalinia*).
- Retinella wheatleyi* (Bland) 1883. Pilsbry 1946: 273, implied; Kaplan and Minckley 1960: 64.
- Stenotrema angellum* Hubricht, 1958. Hubricht 1958a: 70; Kaplan and Minckley 1960: 63.
- Stenotrema barbatum* (Clapp) 1904. Browne and Bruder 1963: 53.
- Stenotrema edwardsi* (Bland) 1856. Pilsbry 1940: 646.
- Stenotrema fraternum* (Say) 1824. Pilsbry 1940: 681; Browne and McDonald 1960: 175; Kaplan and Minckley 1960: 63.
- Stenotrema hirsutum* (Say) 1817. Pilsbry 1940: 662; Kaplan and Minckley 1960: 63.
- Stenotrema leai* (Binney) 1841. Browne and McDonald 1960: 175.
- Stenotrema leai aliciae* (Pilsbry) 1893. Pilsbry 1940: 679; Browne and McDonald 1960: 175; Browne and Bruder 1963: 54.
- Stenotrema monodon* (Rackett) 1821. Browne and Bruder 1963: 53.
- Stenotrema stenotrema* (Pfeiffer) 1842. Pilsbry 1940: 655; Conkin 1957: 11; Browne and McDonald 1960: 175; Kaplan and Minckley 1960: 63.
- Striatura ferrea* Morse, 1864. Pilsbry 1946: 497.
- Striatura milium* (Morse) 1859. Pilsbry 1946: 495; Browne and Bruder 1963: 55.
- (?) *Strobilops aenea* Pilsbry, 1926. Pilsbry 1948: 862, implied.
- (?) *Strobilops aenea spiralis* Pilsbry, 1926. Pilsbry 1948: 865, implied.
- (?) *Strobilops affinis* Pilsbry, 1893. Pilsbry 1948: 860, implied.
- Strobilops labyrinthica* (Say) 1817. Pilsbry 1948: 854, implied; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53.
- (?) *Succinea aurea* Lea, 1846. Pilsbry 1948: 815, implied.
- (?) *Succinea avara* (Say) 1824. Pilsbry 1948: 837, implied.
- Succinea grosvenori* Lea, 1864. Pilsbry 1948: 819, implied; Browne and McDonald 1960: 175; Browne and Bruder 1963: 54.
- Succinea grosvenori gelida* (F.C. Baker) 1927. Browne and McDonald 1960: 175; Browne and Bruder 1963: 53.
- Succinea ovalis* (Say) 1817. Browne

and McDonald 1960: 175; Browne and Bruder 1963: 53; Hubricht 1964: 3.

Succinea ovalis optima Pilsbry, 1908. Pilsbry 1948: 805.

Tridopsis albolabris (Say) 1816. Pilsbry 1940: 835; Hubricht 1950: 106; Conkin 1957: 11; Kaplan and Minckley 1960: 64; Browne and Bruder 1963: 53; Hubricht 1964: 3.

Tridopsis denotata (Férussac) 1823. Pilsbry 1940: 821; Kaplan and Minckley 1960: 64; Hubricht 1964: 3.

Tridopsis fosteri (Baker) 1932. Browne and Bruder 1963: 55.

Tridopsis fraudulenta (Pilsbry) 1894. Conkin 1957: 11; Kaplan and Minckley 1960: 64. (Possibly the subspecies below).

Tridopsis fraudulenta vulgata Pilsbry, 1940. Pilsbry 1940: 805.

Tridopsis multilineata (Say) 1821. Pilsbry 1940: 847, implied; Browne and McDonald 1960: 175.

Tridopsis multilineata algonquinensis Nason, 1906. Browne and Bruder 1963: 54.

Tridopsis abstrigata (Say) 1821. Pilsbry 1940: 827.

Tridopsis rugosa antesigna (Pilsbry) 1940. Pilsbry 1940: 803.

Tridopsis tridentata (Say) 1816. Pilsbry 1940: 792; Hubricht 1964: 3.

Tridopsis tridentata tennesseensis (Walker) 1907. Pilsbry 1940: 797.

Tridopsis vulgata Pilsbry 1940. Hubricht 1964: 3.

Vallonia albula Sterki, 1893. Browne and McDonald 1960: 175; Browne and Bruder 1963: 53.

Vallonia cyclophorella Sterki, 1892. Browne and Bruder 1963: 55.

(?) *Vallonia perspectiva* Sterki, 1893. Pilsbry 1948: 1033, implied.

Vallonia pulchella (Müller) 1774. Pilsbry 1948: 1023.

Ventridens aceris (Lewis) 1870. Pilsbry 1946: 463.

Ventridens demissus (Binney) 1843. Pilsbry 1946: 459; Kaplan and Minckley 1960: 64.

Ventridens ellioti (Redfield) 1856. Pilsbry 1946: 471.

Ventridens gularis (Say) 1822. Pilsbry 1946: 443; Hubricht 1964: 424; Hubricht 1964: 3.

Ventridens intertextus (Binney) 1841. Pilsbry 1946: 468.

Ventridens lawae (W. G. Binney) 1892. Hubricht 1964: 422.

Ventridens ligera (Say) 1821. Pilsbry 1946: 465; Kaplan and Minckley 1960: 64; Hubricht 1964: 3.

Ventridens pilsbryi Hubricht, 1964. Hubricht 1964: 418.

Ventridens suppressus divisa Pilsbry, 1946. Pilsbry 1946: 440.

Ventridens suppressus virginicus (Vanatta) 1936. Pilsbry 1946: 440.

Ventridens theloides (Walker and Pilsbry) 1902. Hubricht 1964: 420.

(?) *Vertigo bollesiana* (Morse) 1865. Pilsbry 1948: 981, implied.

Vertigo gouldi (Binney) 1843. Pilsbry 1948: 971; Browne and Bruder 1963: 53.

Vertigo gouldi paradoxa Sterki, 1900. Browne and Bruder 1963: 53.

(?) *Vertigo milium* (Gould) 1840. Pilsbry 1948: 944, implied.

Vertigo modesta (Say) 1824. Browne and McDonald 1960: 175; Browne and Bruder 1963: 53.

Vertigo nylanderii Sterki, 1909. Browne and McDonald 1960: 175.

(?) *Vertigo ovata* Say, 1822. Pilsbry 1948: 952, implied.

Vertigo tridentata Wolf, 1870. Kaplan and Minckley 1960: 65.

Zonitoides arboreus (Say) 1816. Pilsbry 1946: 480; Browne and Bruder 1963: 54; Hubricht 1964: 34.

Zonitoides lateumbilicatus (Pilsbry) 1895. Pilsbry 1946: 486.

(?) *Zonitoides nitidus* (Müller) 1774. Pilsbry 1946: 476, implied.

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MANUSCRIPT RECEIVED AND ACCEPTED FOR PUBLICATION OCTOBER 1, 1967