

# The four subspecies of *Pleurocera troostiana* (Lea 1838), with synonymy.

Robert T. Dillon, Jr.  
Coordinator, FWGNA Project

## 1. *Pleurocera troostiana troostiana* (Lea 1838). Figures 1, 2, 3 & 4.

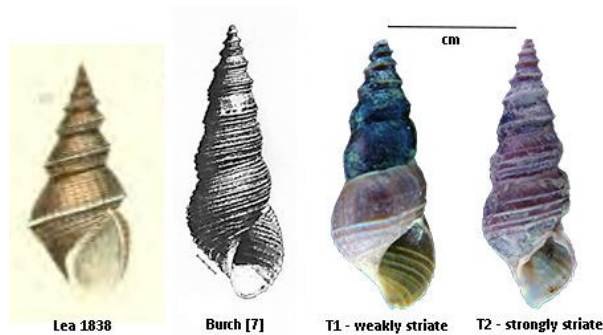


Figure 1. *P. troostiana troostiana*.

Type locality: Mossy Creek at the Old Andrew Johnson Highway Bridge, Jefferson County, TN. 36.1272, -83.4862.

Ref: On the Trail of Professor Troost [[6Dec19](#)]

- *Melania teres* Lea 1841. Figure 2.  
Type locality: "Small streams of Walden Ridge, TN, flowing eastward" (Goodrich, 1940)  
Ref: The Many Faces of Professor Troost [[7Jan20](#)]

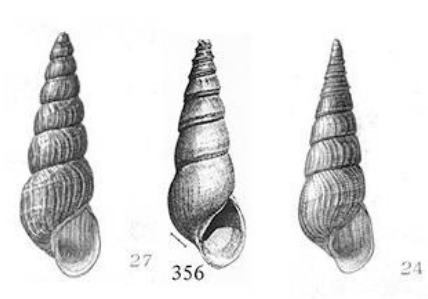


Figure 2. *teres* (Lea 1841), *teres* (Burch), *strigosa* (Lea 1841)

- *Melania strigosa* Lea 1841. Figures 2 & 3.  
Type locality: Little Flat Creek at the Emory Road bridge, Knox County, TN. 36.1411, -83.7961.  
Ref: The Many Faces of Professor Troost [[7Jan20](#)]

- *Melania striatula* Lea 1841 (Probable). Figure 3.  
Typical locality: Coahulla Creek at the National Fish Hatchery, Whitfield County, GA. 34.9731, -84.9505.  
Ref: The Many Faces of Professor Troost [[7Jan20](#)]
- *Melania arachnoidea* Anthony 1854. Figure 3.  
Type locality: Steekee Creek at the corporate limit of Loudon, Loudon County, TN. 35.7242, -84.3473.  
Ref: The Many Faces of Professor Troost [[7Jan20](#)]

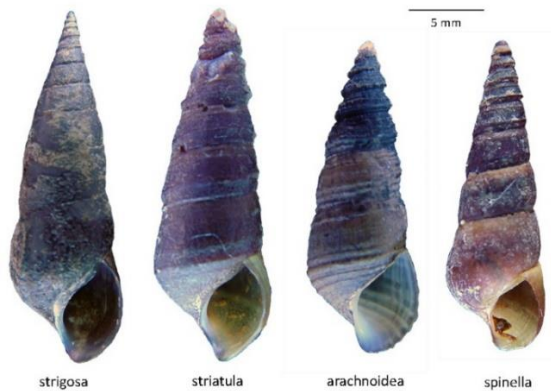


Figure 3. Synonyms of *P. troostiana troostiana*.

- *Goniobasis spinella* Lea 1862. Figure 3.  
Type locality: Little Sycamore Creek at the Estes Road Bridge, Sycamore Hill, Claiborne County, TN. 36.4534, -83.5076.  
Ref: The Many Faces of Professor Troost [[7Jan20](#)]
- *Goniobasis porrecta* Lea 1863b. Figure 4.
- *Goniobasis vittatella* Lea 1863b. Figure 4.  
Type locality: Gap Creek in the town of Cumberland Gap, Claiborne Co, TN. 36.6004, -83.6683.  
Ref: Yankees at The Gap [[4Aug19](#)]

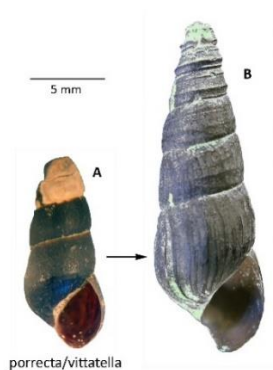


Figure 4. Synonyms of *P. troostiana troostiana* (cont.)

## 2. *Pleurocera troostiana edgariana* (Lea 1841). Figure 5.

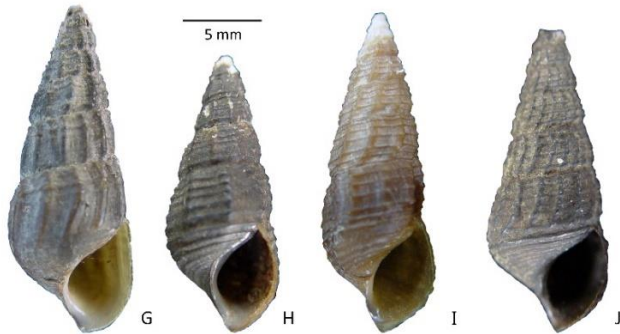


Figure 5. *Pleurocera troostiana edgariana*

Type locality: Caney Fork at the TN 264 bridge, Smith County, TN. 36.1816, -85.9081.

Ref: What is *Melania edgariana*? [[5June20](#)]

## 3. *Pleurocera troostiana perstriata* (Lea 1853). Figures 6, 7, and 8.

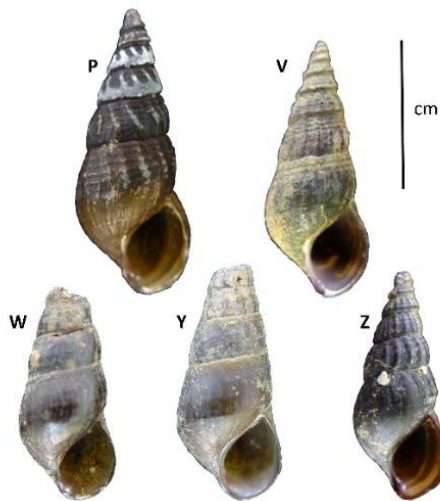


Figure 6. *Pleurocera troostiana perstriata*

Type locality: Big Spring outfall, Huntsville, Madison County, AL. 34.7246, -86.5915.

Ref: Huntsville Hunt [[15Apr20](#)]

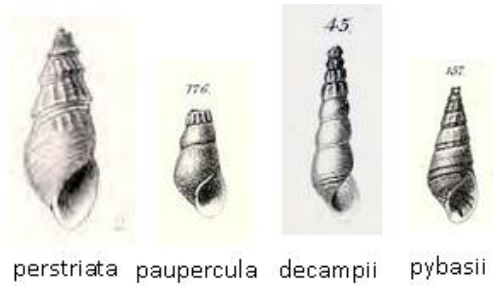


Figure 7. *perstriata* (Lea 1853) and synonyms (1863a, 1866).

- *Goniobasis pybasii* Lea 1862. Figures 7 & 8.  
Type locality: Newsom Springs at the Rattlesnake Saloon, Colbert County, AL. 34.6481, -87.9076.  
Ref: A House Divided [[10May20](#)]
- *Goniobasis paupercula* Lea 1862. Figures 7 & 8.  
Type locality: Lipscomb Spring, Morgan County, AL. 34.5241, -86.6013.  
Ref: A House Divided [[10May20](#)]
- *Goniobasis decampii* Lea 1866. Figure 7.  
Type locality: "Huntsville, AL"  
Ref: A House Divided [[10May20](#)]

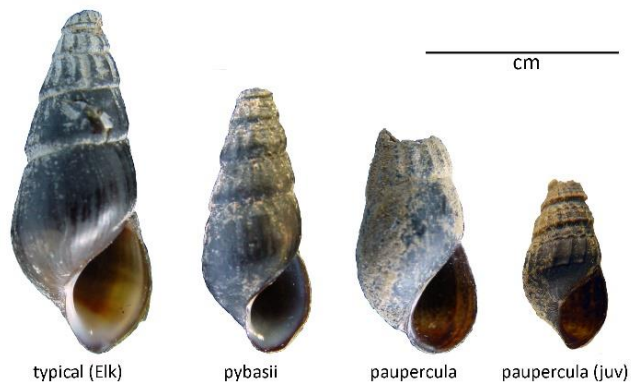


Figure 8. *Pleurocera troostiana perstriata*.

#### 4. *Pleurocera troostiana lyonii* (Lea 1862). Figure 9.

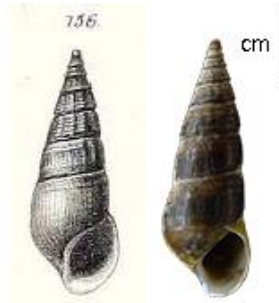


Figure 9. *Pleurocera troostiana lyonii* (Lea 1863a)

Type locality: Trib. of Big Run Branch, 5 km W of Leitchfield, Grayson County, KY. 37.5029, -86.3411.

Ref: The Return of Captain Lyon [6July20]

- *Goniobasis curryana lyoni* (Lea 1862)  
Type locality: Spring Fork Creek, Grayson County, KY (Bickel 1968)  
Ref: The Return of Captain Lyon [6July20]

#### Literature Cited

- Anthony, J.G. (1854) Descriptions of new fluviatile shells of the genus *Melania* Lam., from the western states of North America. *Annals of the Lyceum of Natural History of New York* 6: 80 -132.
- Bickel, D. (1968) *Goniobasis curryana lyoni*, a pleurocerid snail of west-central Kentucky. *The Nautilus* 82: 13 - 18.
- Burch, J. B. (1989) North American Freshwater Snails. Malacological Publications, Hamburg, MI.
- Goodrich, C. (1940) The Pleuroceridae of the Ohio River drainage system. *Occasional Papers of the Museum of Zoology, University of Michigan* 417: 1-21.
- Lea, Isaac (1838) Description of New Freshwater and Land Shells. *Transactions of the American Philosophical Society (New Series)* 6: 1 – 154.
- Lea, Isaac (1841) Continuation of Mr. Lea's paper on New Fresh Water and Land Shells. *Proceedings of the American Philosophical Society* 2: 11 – 15.
- Lea, Isaac (1843) Description of New Fresh Water and Land Shells. *Transactions of the American Philosophical Society* 8: 163 – 250.
- Lea, Isaac (1853) Description of a new genus (*Basistoma*) of the Family Melaniana, together with some new species of American Melanidae. *Transactions of the American Philosophical Society (new series)* 10: 295 – 302.
- Lea, Isaac (1862) Description of a new genus (*Goniobasis*) of the Family Melanidae and eighty-two new species. *Proceedings of the Academy of Natural Science of Philadelphia*, xiv, pp. 262-272.
- Lea, Isaac (1863a) New Melanidae of the United States. *Journal of the Academy of Natural Sciences of Philadelphia* 5: 217 – 356.
- Lea, Isaac (1863b) Descriptions of fourteen new species of Melanidae and one *Paludina*. *Proceedings of the Academy of Natural Sciences of Philadelphia* 15: 154 – 156.
1866. Lea, Isaac. New Unionidae, Melanidae, etc. chiefly of the United States. *Journal of the Academy of Natural Sciences of Philadelphia (New Series)* 6: 113 – 187.