Bernheim Landsnail Inventory- Species List as of January 2013

**Species collected in BARFLI Phases 1 and 2:***Helicina (Olygyra) orbiculata* (Say, 1818) Globular Drop
*Pomatiopsis lapidaria* (Say, 1817) Slender Walker
*Carychium clappi* Hubricht, 1959 Appalachian Thorn
*Carychium nannodes* G. Clapp, 1905 File Thorn
*Columella simplex* (Gould, 1841) Toothless Column
*Gastrocopta* *armifera* (Say, 1821) Armed Snaggletooth
*Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
*Gastrocopta* *corticaria* (Say, 1817) Bark Snaggletooth
*Gastrocopta pentodon* (Say, 1821) Comb Snaggletooth
*Gastrocopta tappaniana* (C. B. Adams, 1842) White Snaggletooth
*Pupoides albilabris* (C. B. Adams, 1841) White-lip Dagger
*Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
*Vertigo tridentata* Wolf, 1870 Honey Vertigo
*Strobilops labyrinthicus* (Say, 1817) Maze Pinecone
*Haplotrema concavum* (Say, 1821) Gray Lancetooth
*Punctum blandianum* Pilsbry, 1900 Brown Spot
*Punctum minutissimum* (Lea, 1841) Small Spot
*Punctum smithi* Morrison, 1935 Lamellate Spot
*Punctum vitreum* (H. B. Baker, 1930) Glass Spot
*Helicodiscus parallelus* (Say, 1817) Compound Coil
*Anguispira alternata* (Say, 1817) Flamed Tigersnail
*Anguispira* *kochi* (Pfeiffer, 1845) Banded Tigersnail
*Discus patulus* (Deshayes, 1830) Domed Disc
*Catinella* species Ambersnail
*Euconulus dentatus* (Sterki, 1893) Toothed Hive
*Euconulus trochulus* (Reinhardt, 1883) Silk Hive
*Guppya sterkii* (Dall, 1888) Tiny Granule
*Glyphyalinia cumberlandiana* (G. Clapp, 1919) Hill Glyph
*Glyphyalinia indentata* (Say, 1823) Carved Glyph
*Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph
*Glyphyalinia solida* H. B. Baker, 1930 Imperforate Glyph
*Glyphyalinia* cf. *wheatleyi* (Bland, 1883) *cf.* Bright Glyph
*Hawaiia alachuana* (Dall, 1885) Southeast Gem
*Hawaiia minuscula* (Binney, 1840) Minute Gem
*Mesomphix cupreus* (Rafinesque, 1831) Copper Button
*Mesomphix globosus* (MacMillan, 1940) Globose Button
*Mesomphix vulgatus* H. B. Baker, 1933 Common Button
*Paravitrea* cf. *capsella* (Gould, 1851) Dimple Supercoil [4.0 mm; more depressed, fewer whorls]
*Paravitrea multidentata* (A. Binney, 1840) Dentate Supercoil
*Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate
*Ventridens ligera* (Say, 1821) Globose Dome
*Zonitoides arboreus* (Say, 1817) Quick Gloss
*Zonitoides lateumbilicatus* (Pilsbry, 1895) Striate Gloss
*Deroceras laeve* (Müller, 1774) Meadow Slug
*Allogona profunda* (Say, 1821) Broad-banded Forestsnail
*Euchemotrema fraternum* (Say, 1824) Upland Pillsnail
*Euchemotrema* *leai* (A. Binney, 1841) Lowland Pillsnail
*Inflectarius inflectus* (Say, 1821) Shagreen
*Inflectarius rugeli* (Shuttleworth, 1852) Deep-tooth Shagreen
*Mesodon thyroidus* (Say, 1817) White-lip Globe
*Mesodon zaletus* (A. Binney, 1837) Toothed Globe
*Neohelix albolabris* (Say, 1817) Whitelip
*Stenotrema angellum* Hubricht, 1958 Kentucky Slitmouth
*Stenotrema stenotrema* (L. Pfeiffer, 1842) Inland Slitmouth
*Triodopsis vulgata* Pilsbry, 1940 Dished Threetooth
*Xolotrema denotatum* (Férussac, 1821) Velvet Wedge
*Xolotrema obstrictum* (Say, 1821) Sharp Wedge
**Total: 57 species; all native; 35 in Phase 1, 22 added in Phase 2.

Added resultant to BARFLI 3 (2 taxa):***Carychium exile* H.C. Lea, 1842 Ice Thorn
*Vertigo milium* (Gould, 1840) Blade Vertigo
**Total: 59 species; all native.

Added resultant to BARFLI 4 (6 taxa):***Pomatiopsis cincinnatiensis* (I. Lea, 1840) Brown Walker
*Carychium exiguum* (Say, 1822) Obese Thorn
*Vallonia costata* (Müller, 1774) Costate Vallonia
*Lucilla* cf. *nummus* (Vanatta, 1899) *cf.* Wax Coil
*Zonitoides limatulus* (A. Binney. 1840) Dull Gloss
*Stenotrema barbatum* (G.H. Clapp, 1904)/*S. hirsutum* (Say, 1817) Bristled/ Hairy Slitmouth [single immature shell denuded of periostracum; ID limited to two taxa]
**Total: 65 species; all native.

Bernheim Forest landsnails collected in BARFLI Phases 1 through 4:***Helicina (Olygyra) orbiculata* (Say, 1818) Globular Drop
*Pomatiopsis cincinnatiensis* (I. Lea, 1840) Brown Walker
*Pomatiopsis lapidaria* (Say, 1817) Slender Walker
*Carychium clappi* Hubricht, 1959 Appalachian Thorn
*Carychium exiguum* (Say, 1822) Obese Thorn
*Carychium exile* H.C. Lea, 1842 Ice Thorn
*Carychium nannodes* G. Clapp, 1905 File Thorn
*Columella simplex* (Gould, 1841) Toothless Column
*Gastrocopta* *armifera* (Say, 1821) Armed Snaggletooth
*Gastrocopta contracta* (Say, 1822) Bottleneck Snaggletooth
*Gastrocopta* *corticaria* (Say, 1817) Bark Snaggletooth
*Gastrocopta pentodon* (Say, 1821) Comb Snaggletooth
*Gastrocopta tappaniana* (C. B. Adams, 1842) White Snaggletooth
*Pupoides albilabris* (C. B. Adams, 1841) White-lip Dagger
*Vertigo gouldii* (A. Binney, 1843) Variable Vertigo
*Vertigo milium* (Gould, 1840) Blade Vertigo
*Vertigo tridentata* Wolf, 1870 Honey Vertigo
*Strobilops labyrinthicus* (Say, 1817) Maze Pinecone
*Vallonia costata* (Müller, 1774) Costate Vallonia
*Haplotrema concavum* (Say, 1821) Gray Lancetooth
*Punctum blandianum* Pilsbry, 1900 Brown Spot
*Punctum minutissimum* (Lea, 1841) Small Spot
*Punctum smithi* Morrison, 1935 Lamellate Spot
*Punctum vitreum* (H. B. Baker, 1930) Glass Spot
*Helicodiscus parallelus* (Say, 1817) Compound Coil
*Lucilla* cf. *nummus* (Vanatta, 1899) *cf.* Wax Coil
*Anguispira alternata* (Say, 1817) Flamed Tigersnail
*Anguispira* *kochi* (Pfeiffer, 1845) Banded Tigersnail
*Discus patulus* (Deshayes, 1830) Domed Disc
*Catinella* species Ambersnail
*Euconulus dentatus* (Sterki, 1893) Toothed Hive
*Euconulus trochulus* (Reinhardt, 1883) Silk Hive
*Guppya sterkii* (Dall, 1888) Tiny Granule
*Glyphyalinia cumberlandiana* (G. Clapp, 1919) Hill Glyph
*Glyphyalinia indentata* (Say, 1823) Carved Glyph
*Glyphyalinia lewisiana* (G. Clapp, 1908) Pale Glyph
*Glyphyalinia solida* H. B. Baker, 1930 Imperforate Glyph
*Glyphyalinia* cf. *wheatleyi* (Bland, 1883) *cf.* Bright Glyph
*Hawaiia alachuana* (Dall, 1885) Southeast Gem
*Hawaiia minuscula* (Binney, 1840) Minute Gem
*Mesomphix cupreus* (Rafinesque, 1831) Copper Button
*Mesomphix globosus* (MacMillan, 1940) Globose Button
*Mesomphix vulgatus* H. B. Baker, 1933 Common Button
*Paravitrea* cf. *capsella* (Gould, 1851) Dimple Supercoil [4.0 mm; more depressed, fewer whorls]
*Paravitrea multidentata* (A. Binney, 1840) Dentate Supercoil
*Striatura meridionalis* (Pilsbry & Ferriss, 1906) Southern Striate
*Ventridens ligera* (Say, 1821) Globose Dome
*Zonitoides arboreus* (Say, 1817) Quick Gloss
*Zonitoides lateumbilicatus* (Pilsbry, 1895) Striate Gloss
*Zonitoides limatulus* (A. Binney. 1840) Dull Gloss
*Deroceras laeve* (Müller, 1774) Meadow Slug
*Allogona profunda* (Say, 1821) Broad-banded Forestsnail
*Euchemotrema fraternum* (Say, 1824) Upland Pillsnail
*Euchemotrema* *leai* (A. Binney, 1841) Lowland Pillsnail
*Inflectarius inflectus* (Say, 1821) Shagreen
*Inflectarius rugeli* (Shuttleworth, 1852) Deep-tooth Shagreen
*Mesodon thyroidus* (Say, 1817) White-lip Globe
*Mesodon zaletus* (A. Binney, 1837) Toothed Globe
*Neohelix albolabris* (Say, 1817) Whitelip
*Stenotrema angellum* Hubricht, 1958 Kentucky Slitmouth
*Stenotrema barbatum* (G.H. Clapp, 1904)/*S. hirsutum* (Say, 1817) Bristled/ Hairy Slitmouth [single immature shell denuded of periostracum; ID limited to two taxa]
*Stenotrema stenotrema* (L. Pfeiffer, 1842) Inland Slitmouth
*Triodopsis vulgata* Pilsbry, 1940 Dished Threetooth
*Xolotrema denotatum* (Férussac, 1821) Velvet Wedge
*Xolotrema obstrictum* (Say, 1821) Sharp Wedge
**Total BARFLI now: 65 species; all native; 35 in Phase 1, 22 added in Phase 2; 2 added in Phase 3; 6 added in Phase 4**. Total Nelson + Bullitt Cos. now

**Found on the Spalding University Cave (SPUC) expedition but not in BARFLI 1 through 4 (4 taxa):***Cochlicopa morseana* (Doherty, 1878) Appalachian Pillar
*Vertigo meramecensis* A. Van Devender,  1979 Bluff Vertigo
*Strobilops aeneus* Pilsbry, 1926 Bronze Pinecone
*Stenotrema* cf. *macgregori* Dourson, 2011 Fraudulent Slitmouth
**Expanded BARF boundary (EBARFBLI) inventory 69 species. Total species for Nelson + Bullitt Cos. now 82: 55 before BARFLI; eight added in BARFLI I; nine added in BARFLI 2; one added in BARFLI 3; six added in BARFLI 4; and three added in SPUC.**If we cut ourselves some slack and call EBARFLI a single "spot" (after all, Mammoth Cave National Park [MCNP] is comprised of 52,835 acres), we have vaulted from unranked to a **secure second place in the pantheon of KY land snail biodiversity "hot spots"** (Dourson, 2011: 10). MCNP leads with 78 species and has distinct advantage of (1) containing almost four times the area, (2) supporting five obligate stygian spp., and (3) having been intensively collected by the legendary Leslie Hubricht (1908-2005).

Dourson, D.C. 2011. *Kentucky’s Land Snails and their Ecological Communities*. Goatslug Publications, Bakersville, NC. Frontispiece, title, [i]-[vi], 1-298. October.