

A Checklist of the Hornworts (Anthocerotophyta) and Liverworts (Marchantiophyta) of New Jersey

Version 2.1

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<https://www.huttonstreet.org/floras/NJliverworts.pdf>

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I published a preliminary checklist of New Jersey Hornworts and Liverworts ten years ago ([Barringer 2011](#)). Since then, new collections, taxonomic revisions, and work for the *Flora of North America* have added to our knowledge of these groups and my provisional list needs to be updated. There are now 105 species of liverworts and hornworts known from New Jersey.

This list is alphabetical by genus, with the species listed alphabetically under each genus. The family that the genus is currently classified in is listed in parentheses after the genus name. Families follow the classification of Söderstrom, et al. (2016). When available, data on the species preferred habitat and the time when capsules appear is included under each species. Vouchers are listed by county.

It is difficult sometimes to determine the collection locality for older specimens. I have tried to include citations only for those collections where the locality data is clear. In the few cases where I thought it was important to cite a specimen with a questionable locality, I have added a question mark in brackets, [?].

Many older collections were not given collection numbers and sometimes do not have clear collection dates. I have only included these when there was no alternative. With the collections of C. F. Austin, I have usually been able to cite the exsiccatae number from his 'Hepaticae Boreali Americanae' (Austin 1867).

I have indicated those species that I think are rare in the state based on habitat, distribution, and known collections. State rarities with legal standing are determined by the State botanist and currently no liverworts or hornworts are officially listed. Our understanding of the distribution of bryophytes in New Jersey is poor and, unfortunately, inadequate for the determination of real rarity.

Species represented only by collections more than 100 years old are marked as historical collections. Unfortunately, many of these species may no longer be living in the state. Recent collection that found species not recorded since Austin's time, give

me hope that further careful collection and identification will relocate many of these species.

There will be more changes to our understanding of the liverworts in the near future. The publication of the hepatics treatments in the *Flora of North America* series should stabilize nomenclature and species concepts but will bring further nomenclatural changes, especially in the Jungermanniaceae and Lophoziaceae. Continued digitization of herbarium collections will bring to light new localities and fieldwork will add to our understanding of species distributions and habitat preferences. Fieldwork will also lead to the discovery of additional species and the rediscovery of species not seen for many years.

Please let me know of any corrections and of any additional information on the species or the collections.

Acknowledgements

This list was revised during the pandemic protocols and would not have been possible without the online database of the Consortium of North American Bryophyte Herbaria. I thank the organizers and all the curators who contributed to that database.

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Green = additions to the list

Red = deletions from the list

Hornworts (Anthocerotophyta)

***Anthoceros* (Anthocerotaceae)**

***Anthoceros agrestis* Paton**

capsules in fall and early winter

on dripping basalt cliffs, also reported from harvested cornfields, ditches

Bergen: *W. Wiegmann 1212* (BKL, NY)

Monmouth: *N. Britton s.n.*, 2 Oct 1886 (CHRB)

Anthoceros laevis L. - see *Phaeoceros laevis*

Anthoceros punctatus L. - ours are *Anthoceros agrestis*

Aspiromitis (Anthcerotaceae)

Aspiromitus punctatus ssp. *agrestis* (Paton) R. M. Schuster - see *Anthoceros agrestis*

Notothylias (Notothykladaceae)

Notothylias orbicularis (Schweinitz) Sullivant

capsules: Aug-Nov

on wet soil at the edges of corn fields, in ruts and trails, ditches

Bergen: C. Austin s.n., Oct 1863 (MO, NY)

Hunterdon: E. Britton 15 (CHRB)

Monmouth: C. Haynes 1647 (FH)

Sussex: G. Nearing s.n., 27 Sep 1947 (NY)

Warren: N. Holmgren 30 (UTC)

Phaeoceros (Notothykladaceae)

Phaeoceros laevis (L.) Proskauer

capsules in fall and early winter

on wet soil in harvested cornfields, ditches

Monmouth: C. Haynes 1638 [Amer. Hep. 20] (BKL, NY, MICH)

Morris: N. Britton s.n., 21 Sep 1886 (CHRB)

Passaic: A. Beals s.n., 7 Jul 1916 (NY)

Sussex: N. Britton s.n., 20 Sep 1887 (CHRB)

Warren: L. Underwood s.n., Sep 1886 (NY)

Liverworts (Marchantiophyta)

Aneura (Aneuraceae)

Aneura maxima (Schiffner) Stephani (rare)

Seeps, springs, and along brooks, on rocks and soil

Morris: K. Barringer 28393 (CHRB, PH)

Aneura pinguis (L.) Dumortier (rare)

capsules: Mar -- May

swamps, bogs, or wet traprock ledges

Bergen: A. Eaton s.n. [Hep. Bor.-Amer. 112] (BKL, FH, MICH, MU, NY, PH, WIS)

Hudson: E. Kiviatt s.n., 4 Oct 2013 (Hudsonia)

Monmouth: C. Haynes s.n., 25 Aug 1902 (FH)

Ocean: C. Austin s.n., 1863 (FH, NY)

Asterella (Aytoniaceae)

Asterella tenella (L.) P. Beauv.

capsules: Mar -- Jun

on soil-covered ledges on traprock or limestone, usually dripping wet

Bergen: *M. Howe 15* (CINC, LSU, MICH, NY, TENN)

Hudson: *s.l. s.n.*, [probably J. Torrey] (NY)

Hunterdon: *H. Fisher 15870* (WIS)

Passaic: *L. Underwood s.n.*, 9 May 1897 (NY)

Somerset: *A. Strout s.n.*, 12 May 1916 (NY)

Sussex: *K. Barringer 25315* (BKL)

Union: *W. Wiegmann 5002* (NY)

Barbilophozia (Scapaniaceae)

Barbilophozia barbata (Schmidel) Loeske (historic)

On cliffs, outcrops, and rocky banks

Sussex: *C. Austin s.n.*, Oct 1871 (YU)

Bazzania (Lepidoziaceae)

Bazzania denudata (Torrey) Trevisan

On wet, shaded rock outcrops

Morris: *K. Barringer & J. Rosenbaum 24974* (CHRB, PH)

Bazzania trilobata (L.) Gray

on wet soil, rocks, decaying logs, or tree bases in moist forests, swamps

Bergen: *C. Austin s.n.* [Hep. Bor. Amer. 79] (BKL, WIS, NY, PH, WIS)

Burlington: *H. Webster s.n.*, 27 Feb 1968 (CHRB)

Cumberland: *B. Long 1376* (PH)

Gloucester: *B. Long 1395* (PH, YU)

Hunterdon: *J. Cantlon & E. Moul 1001* (CHRB, F)

Monmouth: *J. Cantlon & M. Buell s.n.*, 13 Apr 1949 (CHRB)

Morris: *K. Barringer & J. Rosenbaum 29094* (CHRB, PH)

Ocean: *B. Long 2232* (PH)

Passaic: *R. Schmidt 139* (CHRB)

Salem: *B. Long 995* (PH)

Sussex: *K. Barringer 20623* (BKL, DUKE, NY, VT)

Warren: *J. A. Churchill 7032814* (MSC)

Blasia (Blasiaceae)

Blasia pusilla L.

capsules: spring

wet, disturbed roadbanks, ditches, rarely on rocks in streambeds

Bergen: *W. Wiegmann s.n.*, 12 Oct 1916 (NY)

Essex: *C. Haynes s.n.*, 10 May 1902 (NY)

Monmouth: *M. Howe s.n.*, 15 Jun 1918 (NY)

Morris: *E. Britton s.n.*, 21 Sep 1886 (CHRB)

Sussex: *E. Lawton 544* (NY)

Warren: *J. Churchill 70401* (MSC)

Blepharostoma (Blepharostomataceae)

***Blepharostoma trichophyllum* (L.) Dumortier**

usually mixed with bryophytes in coastal plain swamps or on moist, shaded rocks in mountains

Atlantic: *M. Robertson* 7206 (PH)

Bergen: *C. Austin s.n.*, 1863 (NY)

Burlington: *B. Thiers* 1254 (NY)

Cumberland: *B. Thiers* 1255 (NY)

Gloucester: *A. Rau s.n.*, Jul 1882 (NY)

Morris: *K. Barringer & J. Rosenbaum* 28221 (CHRB, PH)

Ocean: *E. Matzke s.n.*, Oct 1933 (NY)

Calypogeia (Calypogeiaceae)

***Calypogeia fissa* (L.) Raddi**

on various moist substrates in shaded woods, esp. near streams

Bergen: *A. Beals s.n.*, 28 Nov 1946 (NY)

Hudson: *C. Austin s.n.*, 1862 (NY)

Monmouth: *C. Haynes s.n.*, 28 May 1908 (NDA, NY, PH)

Morris: *K. Barringer* 22587 (BKL)

Ocean: *H. Reynolds* 7225 (WIS)

Passaic: *K. Barringer* 20503 (BKL)

Sussex: *N. Miller* 10068 (NYS)

Union: *K. Barringer* 20528 (BKL)

Warren: *K. Barringer* 26972 (BKL)

***Calypogeia muelleriana* (Schiffner) Mull. Frib.**

Atlantic: *B. Long* 1340 (PH)

Monmouth: *K. Barringer & D. Barringer* 21594 (BKL)

Morris: *K. Barringer & J. Rosenbaum* 28222 (CHRB, PH)

Sussex: *C. Reed* 133691 (MO)

Warren: *N. Miller* 10121 (NYS)

***Calypogeia sphagnicola* (Arnell & J. Perss.) Warnstorf & Loeske**

peat bogs and *Sphagnum* stands

Burlington: *B. Thiers* 1249 (NY)

Camden: *A. Krout s.n.*, Aug 1914 (PH)

Cape May: *C. Wonderly* 818 (NY)

Gloucester: *A. Rau s.n.*, Jun 1882 (NY)

Middlesex: *E. Moul* 6995 (CHRB)

Monmouth: *C. Haynes* 1123 (BKL, MO, NY)

***Calypogeia sullivantii* Austin**

on soil or acid rocks in shade

Burlington: *A. Evans s.n.*, 12 Aug 1892 (MICH, NY)

Monmouth: *A. Lorenz* 855 (YU)

Somerset: *Stevenson s.n.*, 19 Mar 1962 (CHRB)

Sussex: *K. Barringer* 7273 (BKL)

Warren: *C. Austin s.n.* [Hep. Bor. Amer. 74b] (BKL, NY, S, US, WIS, YU)
Calypogeia trichomanis (L.) Corda - for ours see *C. fissa* or *C. sullivantii*

Cephalozia (Cephaloziaceae)

***Cephalozia bicuspidata* (L.) Dumortier**

on shaded, usually peaty, soils along stream and trails, rarely on acidic rocks

Bergen: *J. Wurdack & R. Cowan 8* (MICH, NY)

Gloucester: *K. Barringer 21205* (BKL)

Hunterdon: *K. Barringer 20752* (BKL)

Monmouth: *C. Haynes 1260* (FH, NYS)

Ocean: *C. Gilly s.n.*, 25 Oct 1941 (NY)

Sussex: *K. Barringer 20627* (BKL)

Warren: *I. Henely s.n.*, 1940 (NY)

***Cephalozia catenulata* (Heubener) Lindberg** (historical)

on decaying logs, *Chamaecyparis* swamps

Bergen: *M. Howe s.n.*, 22 Sep 1898 (F, NY)

Burlington: *A. Evans s.n.*, 11 Aug 1892 (NY, YU)

Camden: *W. Haydock s.n.*, 23 Nov 1906 (FH, SIU, YU)

Monmouth: *M. Howe s.n.*, 15 Jun 1918 (NY)

Ocean: *W. Taylor 2180* (DUKE, MICH)

Cephalozia connivens (Dickson) Lindberg – now *Fuscocephaloziopsis connivens*

Cephalozia fluitans (Nees) Spruce - now *Odontoschisma fluitans*

***Cephalozia lunulifolia* (Dumortier) Dumortier**

on peaty soils, rotting wood and in bogs and swamps with *Sphagnum*

Bergen: *A. Howe s.n.*, 5 Nov 1898 (F, MICH, NY)

Burlington: *L. Underwood s.n.*, 1855 (NY)

Gloucester: *B. Long 1388* (PH)

Monmouth: *C. Haynes 1630* (FH)

Salem: *C. Reed 134102* (MO)

Sussex: *N. Miller 10074* (NYS)

Cephaloziella (Cephaloziellaceae)

***Cephaloziella divaricata* (Sm.) Warnstorf**

on soil in woods

Bergen: *M. Howe s.n.*, 6 Oct 1898 (NY)

Burlington: *J. Githens 1398* (PH)

Monmouth: *C. Haynes 1643* (YU)

Ocean: *E. Matzke s.n.*, Nov 1947 (NY)

Sussex: *A. Beals s.n.*, 11 Oct 1947 (NY)

***Cephaloziella elachista* (J. B. Jack) Schiffner** (rare, historical)

in *Sphagnum* bogs often with *Mylia*

Bergen: *C. Austin* [Hep. Bor.-Amer. 54] (BKL, F, FH, NY, PH, UBC, WIS, YU)

***Cephaloziella hampeana* (Nees) Schiffner** (historical)

On soil and rocks often mixed in with other mosses

'Pine Barrens': *C. Austin s.n.* [Hep. Bor.-Amer 51] (BKL, NY, YU)
Burlington: *A. Evans s.n.*, 12 Aug 1892 (NY, YU)
Monmouth: *A. Lorenz 852* (YU)

***Cephaloziella rubella* (Nees) Warnstorf**

on peaty soil, wet roadbanks, and sometimes on rotting wood
'New Jersey': *C. Austin s.n.* [Hep. Bor.-Amer. 50] (MICH, NY)
Sussex: *G. Nearing s.n.*, Dec 1946 (NY, SIU, WTU)
Warren: *N. Miller 10124* (NYS)

***Cephaloziella spinigera* (S. O. Lindberg) Jorgenson** (rare)

Warren: *N. Miller 10115* (NYS)

Cheilolejeunea (Lejeuneaceae)

***Cheilolejeunea clypeata* (Schweinitz) W. Ye & R. L. Zhu**

on trees, but in uplands can grow on rocks
Cumberland: *B. Theirs 1257* (NY)
Gloucester: *K. Barringer 21201* (BKL)
Sussex: *N. Miller 10088* (NYS)
Warren: *E. Rau s.n.*, s.d. (NY)

Chiloscyphus (Lophocoleaceae)

***Chiloscyphus cuspidatus* (Nees) J. Engel & R. M. Schuster**

on wet rocks along streams
Sussex: *E. Frank NJ-68* (CHRB)

***Chiloscyphus minor* (Nees) J. J. Engel & R. M. Schuster**

Dry calcareous soil or decaying logs
Passaic: *C. Gilly s.n.*, 18 Oct 1941 (NY)
Sussex: *E. Britton 23* (NY)

***Chiloscyphus pallescens* (Ehrh.) Dumortier** (rare)

on moist soil and decorticated logs near streams
Passaic: *T. Barkley s.n.*, 10 Oct 1958 (NY)

***Chiloscyphus polyanthos* (L.) Corda**

on shaded moist soil or rocks near water
Bergen: *E. Matzke s.n.*, 10 Apr 1947 (NY)
Burlington: *T. James s.n.*, Jul 1851 (NY)

***Chiloscyphus profundus* (Nees) J. J. Engel & R. M. Schuster**

on soil and tree bases, occasionally on rotting wood
Atlantic: *B. Long 2036* (PH)
Bergen: *W. Wiegmann 5008* (NY)
Burlington: *B. Long 1360* (PH, YU)
Cumberland: *M. Robertson 3145* (PH)
Essex: *C. Haynes s.n.*, 10 May 1902 (FH, NY, PH)
Gloucester: *B. Long 1926* (PH)
Hunterdon: *H. Fischer 65* (PH)
Mercer: *H. Conard 0-1521* (NY)

Middlesex: *E. Britton s.n.*, 19 Apr 1884 (CHRB, NY)
Monmouth: *K. Barringer & D. Barringer 21591* (BKL)
Morris: *K. Barringer 20115* (BKL)
Ocean: *E. Britton s.n.*, 28 May 1887 (CHRB)
Passaic: *N. Holmgren 8* (UTC)
Salem: *B. Long 2117* (PH)
Sussex: *T. Nash s.n.*, 9 Apr 1968 (ASU, CHRB)
Union: *F. Wynne 2789* (FH, SIU, TENN)
Warren: *C. Reed 46708* (MO)

Chiloscyphus rivularis (Schrad.) Hazsl. – for ours see *C. polyanthos*

Cladopodiella (Cephaloziaceae)

Cladopodiella fluitans (Nees) Jörg. (see *Odontoschisma fluitans*)

Cololejeunea (Lejeuneaceae)

Cololejeunea biddlecomiae (Austin) A. Evans (rare, historic)

on tree bark, rarely on rocks in shaded ravines

Bergen: *M. Howe s.n.*, 5 Nov 1898 (NY)

Conocephalum (Conocephalaceae)

Conocephalum conicum (L.) Underw. - ours are *C. salebrosum*

Conocephalum salebrosum Szwedk., Buczkowska and Ordzyoski

on soil along streams, occasionally on rocks and wood in streams and swamps

Atlantic: *C. Gross 497* (CHRB)

Bergen: *E. Kiviat LW-76* (Hudsonia)

Essex: *C. Haynes s.n.*, 10 May 1902 (NY)

Hunterdon: *G. Tees 603* (PH)

Mercer: *B. Long 1886* (PH)

Monmouth: *C. Haynes 12* (NY)

Morris: *E. Moul 6840* (CHRB)

Ocean: *K. Barringer 22149* (BKL)

Passaic: *N. Holmgren 9* (UTC)

Sussex: *A. Hoiberg 222* (CHRB)

Warren: *R. Schaeffer 165* (PH)

Diplophyllum (Scapaniaceae)

Diplophyllum apiculatum (A. Evans) Stephani

on peaty soil on roadbanks, thin soil over rocks, steep roadcuts

Atlantic: *C. Haynes 1632* (FH, NY)

Bergen: *C. Austin s.n., s.d.* (YU)

Monmouth: *A. Lorenz 849* (YU)

Morris: *K. Barringer & J. Rosenbaum 28043* (CHRB)

Passaic: *K. Barringer 22545* (BKL)

Sussex: *E. Lawton* 967 (WTU)

Warren: *R. Cowan & J. Wurdack* 183 (F, NY)

Diplophyllum obtusifolium (Hook.) Dumort. - ours are *D. apiculatum*

Fossombronia (Fossombroniaceae)

***Fossombronia cristula* Austin** (rare, historical)

Streambanks, moist disturbed sites

Burlington: *C. Austin* [Hep. Bor.-Amer. 121] (BKL, FH, MICH, NY, PH, US, YU)

***Fossombronia foveolata* Lindberg** (rare, historical)

on clay at bottom of drained pond, lawns, disturbed sites

no county designated: *C. Austin* s.n. (NY)

Atlantic: *C. Reed* 134267A (MO)

Monmouth: *C. Haynes* s.n., 5 Nov 1912 (BKL, FH, OS, TRH, YU)

Ocean: *B. Allen* 16897 (MO)

***Fossombronia salina* Lindberg** (ours may be *F. foveolata*)

Swamps on the coastal plain

Frullania (Frullaniaceae)

***Frullania asagrayana* Montagne**

on acid rocks and tree bark

Atlantic: *H. Green* s.n., 1881-1882 (NY)

Bergen: *C. Austin* s.n., 1861 (NY)

Burlington: *A. Evans* s.n., Aug 1892 (YU)

Cumberland: *K. Barringer* 25684 (BKL)

Gloucester: *A. Rau* s.n., 1882 (NY)

Ocean: *E. Lawton* 252 (WTU)

***Frullania brittoniae* A. Evans**

On tree bark, rarely on rocks

Bergen: *E. Kiviat* s.n., 19 Apr 2014 (Hudsonia)

Essex: *C. Haynes* s.n., 10 May 1902 (NY, YU)

***Frullania eboracensis* Gottsche**

on tree bark and rock outcrops

Atlantic: *C. Reed* 134384 (MO)

Bergen: *C. Austin* s.n., 17 Jun 1865 (BKL, NY)

Burlington: *B. Thiers* 1245 (NY)

Cape May: *B. Long* 2012 (PH)

Cumberland: *B. Long* 854 (PH)

Essex: *C. Haynes* 510 (NY)

Gloucester: *B. Long* 918 (PH)

Hunterdon: *s.l.* 1003 (CHRB)

Mercer: *M. Barbun* s.n., Jul 1900 (PH)

Monmouth: *K. Barringer & D. Barringer* 21606 (BKL)

Morris: *K. Barringer & J. Rosenbaum* 28194 (CHRB, PH)

Ocean: *Copeland 660* (NY)
Salem: *B. Long 927a* (PH)
Sussex: *K. Barringer 20327b* (BKL)
Warren: *K. Barringer 20933* (BKL, DUKE, NY, VT)

***Frullania ericoides* (Nees) Montagne**

on rock outcrops and tree bark
Bergen: *C. Austin s.n.*, Sep 1867 (NY)
Burlington: *M. Haines s.n.*, s.d. (NY)
Ocean: *H. Mozingo s.n.*, Nov 1947 (COLO)

***Frullania inflata* Gottsche**

on dry rock walls, often traprock, and tree trunks
Atlantic: *C. Reed 134385* (MO)
Bergen: *C. Austin* [Hep Bor.-Amer. 104] (BKL, F, NY, NYS, PH, YU)
Gloucester: *K. Barringer 21202b* (BKL)
Salem: *C. Reed 134060* (MO)

***Frullania plana* Sullivant** (historic)

rock ledges, boulders, occasionally on tree trunks
Bergen: *C. Austin* [Hep. Bor.-Amer. 102] (BKL, FH, NY, PH, YU)

Frullania riparia Hampe - ours are *Frullania inflata*

Frullania tamarisci (L.) Dumortier - ours are *Frullania asagrayana*

Frullania virginica Gottsche - ours are *Frullania eboracensis*

Fuscocephaloziopsis (Cephaloziaceae)

***Fuscocephaloziopsis connivens* (Dicks.) Vana & L. Soderstr.**

in swamps and bogs with *Sphagnum*
Atlantic: *B. Long 1984* (PH)
Bergen: *K. Barringer 21757* (BKL)
Burlington: *K. Barringer 20696* (BKL, DUKE, NY, VT)
Camden: *J. Lowe s.n.*, Jun 1899 (PH)
Cumberland: *W. Cook s.n.*, 18 Sep 1982 (CGCC)
Gloucester: *A. Rau s.n.*, Jun 1882 (NY)
Mercer: *B. Long 1885* (PH)
Middlesex: *W. Rissanen s.n.*, 15 May 1945 (BRIT)
Monmouth: *C. Haynes 683a* (COLO, F, FH, ILL, IND, MT, NY, NYS, PH, WIS, WVA)
Morris: *K. Barringer & J. Rosenbaum 28223* (CHRB, PH)
Ocean: *R. Cowan 146* (NY)
Passaic: *J. Ellis s.n.*, May 1882 (TENN)
Sussex: *K. Barringer 22039* (BKL)
Warren: *N. Miller 10109* (NYS)

Geocalyx (Geocalycaceae)

***Geocalyx graveolens* (Schrader) Nees**

on rotting wood or humus in conifer woods, usually mixed with bryophytes
Ocean: *E. Matzke s.n.*, Nov 1947 (NY)

Warren: *N. Miller 10110* (NYS)

Gymnocolea (Anastrophyllaceae)

***Gymnocolea inflata* (Huds.) Dumortier**

on soil in *Sphagnum* bogs, swamps, occasionally on wet rock faces

Burlington: *B. Thiers 1253* (NY)

Ocean: *E. Britton s.n.*, 30 Jun 1900 (NY)

Passaic: *G. Nearing s.n.*, 15 Dec 1946 (NY)

Herbertus (Herbertaceae)

***Herbertus aduncus* (Dickson) Gray** (rare, historical)

on rocks and trees in conifer woods, in gorges on rock underledges

Passaic: *C. Austin 52a* (MO, NY)

Heterogemma (Scapaniaceae)

Heterogemma capitata (Hooker) Konstat. & Vilnet - see *Tritomaria capitata*

Jamesoniella (Jungermanniaceae)

Jamesoniella autumnalis (DC.) Stephani -see *Syzygiella autumnalis*

Jubula (Jubulaceae)

***Jubula hutchinsiae* (Hooker) Dumortier** (ours is ssp. *pennsylvanica*)

Shaded, wet rocks along streams in ravines often with *Rhododendron maximum*

Bergen *E. Matzke s.n.*, Oct 1931 (NY)

Morris: *E. Lawton 138* (WTU)

Passaic: *K. Barringer 26933* (BKL)

Sussex: *N. Miller 10093* (NYS)

Warren: *K. Barringer & D. Barringer 21832* (BKL)

Jubula pennsylvanica (Stephani) A. Evans -see *J. hutchinsiae*

Jungermannia (Jungermanniaceae)

Jungermannia biformis Austin - see *Plectocolea hyalina*

Jungermannia crenuliformis Austin - see *Plectocolea crenuliformis*

Jungermannia divaricata Sm. - see *Cephaloziella divaricata*

Jungermannia fossombronioides Austin - see *Plectocolea fossombronioides*

Jungermannia gracillima Sm. - see *Solenostoma gracillimum*

Jungermannia hyalina Lyell - see *Plectocolea hyalina*

Jungermannia lanceolata L. - see *Liochlaena lanceolata*

Jungermannia leiantha Grolle - see *Liochlaena lanceolata*

Jungermannia laxa Lindb. - see *Lophozia laxa*

Jungermannia novae-caesareae A. Evans - see *Tritomaria capitata*

***Jungermannia pumila* Withering** (historical)

on damp, shaded, acidic rocks, ravines

Bergen: *C. Austin* [Hep. Bor.-Amer. 33] (BKL, F, MU, NY, PH, WIS, YU)

Kurzia (Lepidoziaceae)

***Kurzia sylvatica* (A. Evans) Grolle**

on peaty soil beside streams, sometimes mixed with bryophytes on logs

Bergen: *R. Cowan & J. Wurdack* 22 (NY)

Burlington: *N. Miller* 5690 (NY, NYS)

Camden: *A. Krout s.n.*, Aug 1914 (BKL, CHRB, DUKE, PH)

Gloucester: *E. Rau s.n.*, 13 Jul 1882 (NY)

Mercer: *B. Long* 1886 (PH)

Middlesex: *W. Rissanen* 1105 (BRIT)

Monmouth: *C. Haynes s.n.*, 15 May 1910 (BKL, FH, IND, NY, TRH, YU)

Ocean: *R. Cowan & J. Wurdack* 135 (NY)

Sussex: *A. Beals s.n.* 10 Nov 1947 (NY)

Union: *E. Rudolph & W. Rissanen s.n.*, 19 Jun 1949 (NY)

Warren: *N. Holmgren* 40 (UTC)

Lejeunea (Lejeuneaceae)

***Lejeunea cavifolia* (Ehrh.) Lindberg**

on bark

Cumberland: *B. Long* 885 (PH)

Passaic: *H. Whittier s.n.*, Oct 1965 (NY)

Sussex: *N. Miller* 10082 (NYS)

Warren: *K. Barringer & D. Barringer* 21834 (BKL)

Lepidozia (Lepidoziaceae)

***Lepidozia reptans* (L.) Dumortier** (rare, historical)

on soil, tree bases, rotting wood, on old, very rotten stumps in cedar swamps

without county: *C. Austin* [Hep. Bor.-Amer. 75] (BKL, F, FH, MO, NY)

Leucolejeunea (Lejeuneaceae)

***Leucolejeunea clypeata* (Schweinitz) A. Evans** - see *Cheilolejeunea clypeata*

Liochlaena (Jungermanniaceae)

***Liochlaena lanceolata* Nees**

on wet soil, usually near streams and falls, on wet rocks in ravines

Hunterdon: *K. Barringer* 20743b (BKL)

Monmouth: *C. Haynes* 989 (YU)

Sussex: *G. Nearing s.n.*, 27 Sep 1947 (NY)

Union: *S. Stephenson s.n.*, Mar 1962 (CHRB)

Warren: *N. Holmgren* 38 (UTC)

Lophocolea (Lophocoleaceae)

***Lophocolea bidentata* (L.) Dumortier** - ours are *Chiloscyphus profundus*

***Lophocolea heterophylla* (Schrader) Dumortier** - see *Chiloscyphus profundus*

Lophocolea minor Nees -see *Chiloscyphus minor*

Lophozia (Lophoziaceae)

Lophozia bicrenata (Schmidel) Dumortier

moist, acid, leached, sandy soils, abandoned farmland

Monmouth: C. Haynes 1490 (BKL, FH, NY)

Passaic: R. Cowan & J. Wurdack 95 (NY)

Sussex: N. Miller 10107 (NYS)

Lophozia capitata (Hooker) Macoun - see *Schistochilopsis capitata*

Lophozia excisa (Dickson) Dumortier (historical)

On wet soil in woods, esp. at higher elevations, steep riversides

"along the Passaic, Delaware, and Hudson Rivers" C. Austin s.n., sd. (FH, MO)

Lophozia laxa (Lindberg) Grolle - see *Schistochilopsis laxa*

Lophozia marchica (Nees) Stephani - see *Schistochilopsis laxa*

Lophozia ventricosa (Dickson) Dumortier

Rock outcrops, decaying logs, peat bogs

Warren: N. Miller 10108 (NYS)

Lunularia (Lunulariaceae)

Lunularia cruciata (L.) Dumortier

weedy in greenhouses, non-native, reproducing only by gemmae

Passaic: Nash s.n., 29 Nov 1893 (NY)

Middlesex: R. Forman s.n., 16 Feb 1967 (OS)

Mannia (Aytoniaceae)

Mannia barbifrons Shimuzu & S. Hatt. - ours are *M. fragrans*

Mannia fragrans (Balbis) Frye & L. Clark (rare, historical)

on rock or thin soil over silicious rocks in sun

Bergen: C. Austin s.n., [Hep. Bor.-Amer. 133] (F, FH, NY, NYS, YU)

Warren: T. Porter s.n., 4 May 1869 (PH)

Marchantia (Marchantiaceae)

Marchantia polymorpha L.

on soil or rocks, farm fields, recently burned sites, a weed in greenhouses

Atlantic: E. Moul 6138 (CHRB)

Bergen: H. Reynolds 7053 (CHRB)

Burlington: A. Krout s.n. Jun 1907 (BKL, F)

Camden: E. Gadsby s.n., 15 Jun 1910 (PH)

Essex: G. Nash 910 (NY)

Gloucester: C. Lippincott s.n., 3 Jun 1894 (PH)

Hudson: J. Torrey s.n., s.d. (NY)

Hunterdon: G. Merrill 11593 (KSP)

Mercer: W. Stowell 2 (NY)

Monmouth: C. Haynes 11 (NY)

Morris: *R. Schmidt* 74 (CHRB)
Passaic: *G. Nash* 625 (NY)
Salem: *B. Heritage* s.n., 14 Jun 1888 (CHRB)
Somerset: *E. Moul* 10827 (CHRB)
Sussex: *G. Tees* s.n., 2 Dec 1934 (YU)
Warren: *T. Porter* s.n., 31 Aug 1868 (BKL)

Marsupella (Gymnomitriaceae)

***Marsupella emarginata* (Ehrhart) Dumortier**

on thin soil over acidic rock outcrops near upland streams

Bergen[?]: *C. Austin* s.n., 1862 (FH)
Warren: *J. Churchill* 7032837 (MSU)

Metzgeria (Metzgeriaceae)

***Metzgeria conjugata* Lindberg**

shaded rock outcrops and on trees in uplands

Bergen: *W. Wiegmann* s.n., 9 July 1915 (NY)
Hunterdon: *K. Barringer* 20742b (BKL)
Morris: *E. Britton* s.n., Sep 1887 (BKL, CHRB)
Passaic: *T. Cowan & J. Wurdack* 46 (NY)
Somerset: *E. Lawton* 1541 (WTU)
Sussex: *N. Miller* 10084 (NYS)
Union: *W. Rissanen* s.n., 19 Jun 1949 (NY)
Warren: *K. Barringer* 24775 (BKL)

***Metzgeria furcata* (L.) Dumortier**

on bark, coves near streams

Passaic: *N. Holmgren* 10 (UTC)
Union: *E. Lawton* 244 (WTU)
Sussex: *K. Barringer* 22367 (BKL)
Warren: *K. Barringer* 21217 (BKL)

Mylia (Myliaceae)

***Mylia anomala* (Hooker) Gray** (rare)

in sphagnum bogs in uplands

Bergen: *C. Austin* [Hep. Bor.-Amer. 25] (BKL, F, NY, NYS, PH)
Sussex: *A. Beals* s.n., 11 Oct 1947 (NY)

Nardia (Gymnomitriaceae)

***Nardia geoscyphus* (De Not.) Lindberg**

thin soil over acid rocks, streambanks

Atlantic: *B. Long* 1314 (YU)
Bergen: *R. Cowan & J. Wurdack* 18 (NY)
Burlington: *A. Evans* s.n., Aug 1892 (NY, YU)

Gloucester: *J. Ellis s.n.*, 1936 (TENN)
Monmouth: *C. Haynes 803* (BKL, COLO, PH)
Morris: *E. Britton 12* (CHRB)
Ocean: *N. Holmgren 92* (UTC)

Nardia lescurii (Austin) Underw. - ours are *N. geoscyphus*

Nowellia (Cephaloziaceae)

***Nowellia curvifolia* (Dickson) Mitt.**

on decorticated, rotting logs, rarely on adjacent soil
ecoregions: Ridge and Valley, Highlands

Bergen: *M. Howe 65* (F, MICH, NY, OS, TRN)
Hunterdon: *G. Merrill 11561* (KSP)
Middlesex: *K. Barringer 21763* (BKL)
Morris: *K. Barringer & J. Rosenbaum 28195* (CHRB, PH)
Passaic: *K. Barringer 20668* (BKL)
Sussex: *K. Barringer 20989* (BKL, DUKE, NY, VT)
Warren: *K. Barringer 21230* (BKL)

Odontoschisma (Cephaloziaceae)

***Odontoschisma denudatum* (Nees) Dumortier**

on soil and rotting logs

Atlantic: *B. Long 208* (PH)
Bergen: *C. Austin s.n., s.d.* (NY)
Burlington: *M. Robertson 7212* (PH)
Cumberland: *B. Thiers 1256* (NY)
Gloucester: *B. Long 2115* (NY)
Middlesex: *K. Barringer 21780* (BKL)
Monmouth: *C. Haynes s.n.*, 29 Apr 1908 (BKL, FH, MICH, NY, OS, SIU, TRH)
Morris: *K. Barringer 22608* (BKL)
Ocean: *R. Cowan & J. Wurdack 131* (NY)
Passaic: *K. Barringer 22558* (BKL)
Sussex: *N. Miller 10076C* (NYS)
Warren: *K. Barringer 22428* (BKL)

***Odontoschisma fluitans* (Nees) Soderstrom & Vana** (formerly *Cladopodiella fluitans*)

peat bogs, in sun

Bergen: *C. Austin* [Hep. Bor.-Amer. 35] (BKL, MICH, NY, PH, WIS)
Burlington: *E. Leonard 6395* (NY)
Ocean: *B. Allen 16892* (MO)

***Odontoschisma prostratum* (Sw.) Trevisan** - see *O. sphagni*

***Odontoschisma sphagni* (Dickson) Dumortier** - formerly *O. prostratum*

on peaty soil and rotting logs

Atlantic: *G. Tees 1354* (NY)
Bergen: *E. Matzke s.n.*, 6 Jul 1945 (NY)
Burlington: *J. Shaw s.n.*, 11 Apr 1974 (DUKE)

Camden : *W. Haydock 10* (SIU)
Cape May: *B. Long 2154* (PH)
Cumberland: *B. Long 1175* (PH)
Gloucester *B. Long 2115* (NY, PH)
Mercer: *B. Long 1888* (PH)
Middlesex: *K. Barringer 21808* (BKL)
Monmouth: *G. Conklin & C. Haynes 2794* (DUKE)
Ocean: *R. Cowan 133* (NY)
Passaic: *K. Barringer 21475* (BKL)
Salem: *B. Long 941* (PH)
Sussex: *K. Barringer 25330* (BKL)
Warren: *J. Churchill 677239* (MSC)

Pallavicinia (Pallaviciniaceae)

***Pallavicinia lyellii* (Hooker) Gray**

on acidic soils and bark in wet woods, swamps, pond edges

Atlantic: *L. Underwood s.n.*, 6 Sep 1884 (NY)
Bergen: *W. Wiegmann 5017* (NY)
Burlington: *K. Barringer 20699* (BKL, DUKE, NY, VT)
Camden: *K. Barringer 20872* (BKL)
Cumberland: *B. Long 1253* (NY, PH)
Gloucester: *W. Rapp s.n.*, 14 Aug 1943 (CHRB)
Hudson: *C. Austin s.n.*, 1861 (NY)
Middlesex: *K. Barringer 21810* (BKL)
Monmouth: *K. Barringer & D. Barringer 21598* (BKL)
Morris: *K. Barringer & J. Rosenbaum 28229* (CHRB, PH)
Ocean: *C. Gilly s.n.*, 25 Oct 1941 (NY)
Passaic: *K. Barringer 20612* (BKL)
Sussex: *N. Miller 5660* (NYS)
Union: *E. Moul s.n.*, 1947 (PH)
Warren: *K. Barringer 25069* (BKL)

Pellia (Pelliaceae)

***Pellia epiphylla* (L.) Corda**

on soil along streams and on the edges of lakes and ponds

Bergen: *T. Barkley s.n.*, 3 Oct 1958 (NY)
Essex: *C. Haynes s.n.*, 10 May 1902 (NY)
Mercer: *s.l. s.n.*, 27 Apr 1909 (CHRB)
Monmouth: *C. Haynes 1641* (FH)
Morris: *K. Barringer 18238* (BKL, CHRB)
Passaic: *W. Rissanen 1157* (BRIT)
Sussex: *E. Frank NJ70* (CHRB)
Union: *W. Rissanen s.n.*, 19 Jun 1941 (NY)

Warren: *K. Barringer & D. Barringer 21844* (BKL)

***Pellia neesiana* (Gottsche) Limpricht**

on wet soil

Bergen: *J. Wurdack & R. Cowan 9* (NY)

Sussex: *N. Miller 10078* (NYS)

Plagiochila (Plagiochilaceae)

***Plagiochila asplenioides* (L.) Dumortier**

Bergen: *M. Howe 51* (F, MICH)

Hunterdon: *B. Long 2075* (PH)

Morris: *R. Schmidt 156* (CHRB)

Passaic: *K. Barringer 26407* (BKL)

Sussex: *K. Barringer 21495* (BKL)

***Plagiochila porelloides* (Torr.) Lindenb.**

on shaded rocks along streams

Bergen : *W. Wiegmann s.n.*, 19 Jul 1915 (NY)

Burlington: *V. Montagne s.n.*, Apr 1851 (NY)

Morris: *C. Austin s.n.*, Aug 1867 (NY)

Passaic: *K. Barringer 27368* (CHRB, PH)

Sussex: *N. Miller 10079* (NYS)

Plectocolea (Solenostemataceae)

***Plectocolea crenuliformis* (Austin) Mitten**

on acid rocks along shaded streams

Bergen: *C. Austin* [Hep. Bor.-Amer. 31] (BKL, MO, NY, US, WTU, YU)

Burlington: *E. Moul 7982* (CHRB)

Hunterdon: *J. Cantlon 1024* (CHRB)

Middlesex: *E. Moul 11052* (CHRB)

Monmouth: *C. Haynes 6626* (MO)

Ocean: *E. Moul 2667* (CHRB, NY, PH)

***Plectocolea fossombronioides* (Austin) Mitten** (historical)

thin soil over acid rocks, especially along streams

Bergen: *C. Austin* [Hep. Bor.-Amer. 32] (BKL, F, MO, NY, US, YU)

***Plectocolea hyalina* (Lyell) Mitten**

on soil over rocks in deciduous woods

Bergen: *C. Austin* [Hep. Bor.-Amer. 28] (BKL, F, MU, NY, PH, YU)

Warren: *C. Austin s.n., s.d.* (NY)

Porella (Porellaceae)

***Porella pinnata* L.**

on rocks along streams

Bergen: *W. Wiegmann s.n.*, 19 Jul 1915 (BKL)

Hunterdon: *J. Cantlon 1010* (CHRB)

Morris: *E. Britton s.n.*, 30 May 1882 (BKL)

Passaic: *J. Cowan 100* (NY)
Somerset: *K. Barringer 18129* (BKL)
Sussex: *K. Barringer 20579* (BKL, DUKE, NY, VT)
Union: *E. Lawton 240* (WTU)
Warren: *R. Schaeffer 181* (NY, PH)

***Porella platyphylla* (L.) Pfeiff.**

on tree or occasionally rocks in moist woodlands

Atlantic: *B. Long 2033* (NY, PH)
Burlington: *W. Stowell 1* (NY)
Cape May: *B. Long 2015* (PH)
Essex: *C. Haynes s.n.*, 10 May 1902 (NY)
Gloucester: *E. Rau s.n.*, Jun 1882 (NY)
Hudson: *E. Brainerd s.n.* (BKL)
Hunterdon: *J. Cantlon 1011* (CHRB)
Mercer: *J. Torrey s.n.*, 1831 (NY)
Morris: *K. Barringer & J. Rosenbaum 28210* (CHRB, PH)
Ocean: *R. Cowan & J. Wurdack 129* (NY)
Passaic: *W. Manning 14* (MO)
Salem: *B. Long 955* (PH)
Sussex: *E. Lawton 2309* (WTU)
Warren: *G. Tees 700* (PH)

***Porella platyphylloidea* (Schweinitz) Lindberg**

Bergen: *C. Haynes s.n.*, 29 Nov 1902 (FH, NY, SIU)
Burlington: *D. Lee & R. Forman s.n.*, 10 Mar 1967 (OS)
Camden: *W. Rissanen s.n.*, 25 May 1947 (BRIT)
Hunterdon: *E. Moul 6789* (CHRB)
Morris: *R. Schmidt 154* (CHRB)
Ocean: *R. Cowan & J. Wurdack 129* (NY)
Sussex: *H. Webster 170* (CHRB)
Warren: *E. Matzke s.n.*, 10 Nov 1946 (NY)

***Preissia* (Marchantiaceae)**

***Preissia quadrata* (Scop.) Nees** (rare, historical)

calciphile, on rocks near running water, ravines, dripping cliffs
not designated: *C. Austin s.n.* [Hep. Bor.-Amer. 129] (BKL, NY)
Middlesex: *A. Vail s.n.*, May 1891 (NY)
Warren: *C. Jones s.n.*, 15 Oct 1965 (CHRB)

***Ptilidium* (Ptilidiaceae)**

***Ptilidium ciliare* (L.) Hampe** – ours are *P. pulcherrimum*

Thin soil over rock on dry hilltops and acidic wetlands

***Ptilidium pulcherrimum* (Weber) Hampe**

on fallen logs and rock outcrops near streams in uplands or lowland swamps
Atlantic: *B. Long 1996* (PH)

Bergen: *M. Howe s.n.*, 6 Oct 1898 (NY, TENN)
Camden: *B. Long 1527* (PH)
Cumberland: *B. Long 774* (PH)
Essex: *D. Lee & R. Forman s.n.*, 14 Mar 1967 (OS)
Hudson: *C. Austin s.n., s.d.* (NY)
Hunterdon: *J. Cantlon & Moul 1022* (CHRB)
Middlesex: *K. Barringer 21784* (BKL)
Morris: *K. Barringer & J. Rosenbaum 28280* (CHRB, PH)
Middlesex: *K. Barringer 21784* (BKL)
Ocean: *K. Barringer 22122* (BKL)
Passaic: *K. Barringer 20657* (BKL)
Sussex: *K. Barringer & J. Rosenbaum 28029* (CHRB, PH))
Warren: *J. Churchill 7081625* (MSC)

Radula (Radulaceae)

***Radula complanata* (L.) Dumortier**

on tree bark and rock outcrops

Bergen: *C. Austin* [Hep. Bor.-Amer. 86] (FH, MO, NY, YU)
Hunterdon: *J. Cantlon 1008* (CHRB)
Morris: *K. Barringer & J. Rosenbaum 28250* (CHRB, PH)
Warren: *G. Jones s.n.*, 15 Oct 1965 (CHRB)

***Radula obconica* Sull.** (historic)

on rock outcrops or bark in deep shade

Bergen: *C. Austin* [Hep. Bor.-Amer. 88] (MO, NEB, NY)
Hunterdon: *J. Cantlon 1008* (CHRB)
Sussex: *N. Miller 10087* (NYS)
Union: *J. Benedict s.n.*, 26 Feb 1892 (TENN)

Reboulia (Aytoniaceae)

***Reboulia hemisphaerica* (L.) Raddi**

capsules: Mar -- Aug

on soil over rocks, humid sites, a calciphile, but not exclusively

Bergen: *W. Wiegmann 5018* (NY)
Hudson: *J. Torrey 3* (NY)
Hunterdon: *B. Long 1078* (PH)
Sussex: *C. Reed 133592* (MO)
Warren: *R. Cowan & J. Wurdack 174* (NY)

Riccardia (Aneuraceae)

***Riccardia chamedryfolia* (Withering) Grolle**

on dripping rocks near streams

Bergen: *C. Austin s.n.*, 1873 (FH, MICH, PH)
Monmouth: *C. Haynes 14* (FH, NY)

Passaic: *E. Lawton* 312 (WTU)

***Riccardia latifrons* (Lindberg) Lindberg**

on rotting wood

Burlington: *D. Lee & R. Forman s.n.* 10 Mar 1967 (OS)

Ocean: *W. Taylor s.n.*, 26 May 1923 (PH)

***Riccardia multifida* (L.) Gray**

in N on soil or rocks in wet seeps and near falls, in S on trees in cedar swamps

Burlington: *A. Evans s.n.*, 10 Aug 1892 (NY, YU)

Gloucester: *K. Barringer 21204* (BKL)

Hudson: *C. Austin s.n.*, 1861 (NY)

Ocean: *K. Barringer 20911b* (BKL)

Passaic: *W. Rissanen 1158* (BRIT)

***Riccardia palmata* (Hedwig) Carruth.**

on wet, rotting wood, especially in streams, shaded gorges

Bergen: *M. Howe s.n.*, 22 Sep 1898 (NY)

Camden: *K. Barringer 20883b* (CHRB)

Cumberland: *B. Long 882B* (PH)

Sussex: *K. Barringer 21130* (BKL)

***Riccia* (Ricciaceae)**

Riccia austinii Stephani - see *R. lamellosa*

***Riccia beyrichiana* Hampe (historical)**

on soil in wet fields and ditches, usually in partial shade

Bergen: *C. Austin* [Hep. Bor.-Amer. 143] (BKL, F, FH, MICH, NEB, NY, PH, WIS, YU)

***Riccia bifurca* Hoffm.**

on wet soil at edges of plowed fields or along streams

Bergen: *C. Austin* [Hep. Bor.-Amer. 141] (F, MO, NY, PH, YU)

Monmouth: *C. Haynes 1649* (NY, YU)

Warren: *N. Holmgren 29* (UTC)

***Riccia cavernosa* Hoffm. (in NJ?)**

spores: Sep-Oct

on wet or seasonally wet soil in disturbed sites

no county designated: *C. Austin s.n.*, 1863 (MO, NY)

***Riccia fluitans* L.**

on still water of ditches and ponds or along their margins

Bergen: *C. Curtis s.n.*, 22 Sep 1898 (NY)

Burlington: *R. Sim s.n.*, 1934 (PH)

Camden: *L. Underwood s.n.*, Oct 1855 (NY)

Cape May: *B. Heritage s.n.*, 7 May 1857 (PH)

Gloucester: *B. Long 2905* (PH)

Hudson: *M. Howe s.n.*, 22 Sep 1898 (CHRB, F, MICH, NY)

Morris: *K. Barringer 23529* (BKL)

Ocean: *R. Cowan & J. Wurdack 136* (NY)

Salem: *B. Long 1246* (PH, YU)

Sussex: *K. Barringer 19930* (BKL)

***Riccia heubeneriana* Lindenb.**

on soil in grassy ditches or at the edges of ponds

Atlantic: *A. Tuckerman s.n.*, 12 Oct 1970 (CHRB)

Bergen: *R. Cowan & J. Wurdack 27* (NY)

Camden: *T. James s.n.*, 1867 (NY)

Monmouth: *C. Haynes* [Amer. Hep. 116] (BKL, FH, NY, SIU, TRN)

***Riccia hirta* (Austin) Underwood** (historic)

on wet soil in stubble fields or along the banks of streams

Bergen: *C. Austin 669* (NY)

***Riccia lamellosa* Raddi** (historic)

on thin soil of exposed outcrops, often in full sun

Bergen: *C. Austin s.n.*, 1864 (FH, NY, YU)

***Riccia membranacea* Gottsche & Lindenb.** (historic)

on soil in periodically flooded sites

Bergen: *C. Austin* [Hep. Bor.-Amer. 150] (BKL, CHRB, FH, MO, NY, YU)

***Riccia sorocarpa* Bisch.**

on soil in ditches and periodically flooded fields

Bergen: *C. Austin* [Hep. Bor.-Amer. 139] (BKL, F, MICH, NEB, NY, WIS, YU)

Monmouth: *C. Haynes 1493* (BUT, NY, YU)

Riccia sullivantii Austin - see *R. heubneriana*

Riccia tenuis Austin - see *R. membranacea*

Ricciocarpus (Ricciaceae)

***Ricciocarpus natans* (L.) Corda**

floating on still water, swamps

Bergen: *W. Wiegmann 1119* (BKL, NY)

Burlington: *W. Stowell 3* (NY)

Mercer: *L. Underwood s.n.*, Dec 1888 (CHRB)

Monmouth: *C. Haynes 1628* (FH)

Morris: *E. Moul 73-2* (CHRB, PH)

Passaic: *K. Barringer 26869* (BKL)

Sussex: *G. Nearing s.n.*, 27 Sep 1947 (NY)

Warren: *L. K. Barringer 25987* (BKL)

Scapania (Scapaniaceae)

***Scapania glaucocephala* (Taylor) Austin** (rare, historical)

on rotting wood in shade, usually evergreen logs

Bergen[?]: *Austin s.n.*, s.d. (NY)

Warren: *T. Nash 150337* (ASU)

***Scapania irrigua* (Nees) Nees** (rare, historic)

Bogs, wet decaying logs and wet soil

Ocean: *C. Austin s.n.* [Hep. Bor.-Amer. 15c] (BKL, F, MICH, NY, WIS)

***Scapania mucronata* Buch.**

On rotting wood, rocks and soil
Fide FNA, no specimens seen

***Scapania nemorea* (L.) Grolle**

in seeps and moist roadbanks

Bergen: *C. Austin s.n.*, 1862 (NY)

Camden: *B. Long 1458* (YU)

Cape May: *B. Long 870* (PH)

Cumberland: *B. Long 1111* (PH)

Gloucester: *B. Long 2060a* (PH)

Hudson: *R. Williams s.n.*, 7 Nov 1899 (NY)

Hunterdon: *K. Barringer 20746* (BKL)

Mercer: *A. Evans 31* (YU)

Monmouth: *C. Haynes 987* (BKL, FH, NY, SIU)

Morris: *E. Britton 1672* (CHRB)

Passaic: *K. Barringer 23126* (BKL, DUKE, NY, VT)

Sussex: *N. Miller 10076B* (NYS)

Warren: *J. Churchill 7038232* (MSC)

Scapania nemorosa (L.) Dumortier - see *S. nemorea*

***Scapania undulata* (L.) Dumortier**

on rocks along streams, always near fast running water

Bergen: *J. Wurdack & R. Cowan 19* (NY)

Burlington: *E. Moul s.n.*, 23 Jul 1950 (PH)

Morris: *K. Barringer & J. Rosenbaum 28234* (CHRB, PH)

Sussex: *K. Barringer 21037* (BKL)

Warren: *G. Jones s.n.*, 15 Oct 1965 (CHRB)

***Schistochilopsis* (Lophoziaceae)**

***Schistochilopsis capitata* (Hooker) Konst.** (rare, historical)

moist, sandy barrens and old dune swales

Atlantic: *A. Evans s.n.*, Apr 1893 (NY)

Burlington: *A. Evans s.n.*, Aug 1892 (NY)

***Schistochilopsis laxa* (Lindb.) Konst.** (historical)

capsules in autumn

peat bogs

Bergen: *C. Austin s.n.* [*Hep. Bor.-Amer.* 46] (BKL, NY, NYS)

***Solenostoma* (Solenostomataceae)**

***Solenostoma gracillimum* (Smith) R. M. Schuster**

on moist soils and acid rocks in woods

Bergen: *G. Nearing s.n.*, 28 Nov 1946 (NY)

Burlington: *E. Frank s.n.*, 18 Aug 1984 (CHRB)

Monmouth: *C. Haynes 809* (BUT, IND, NY, NYS, MO, PH, SIU)

***Syzygiella* (Adelanthaceae)**

***Syzygiella autumnalis* (DeCandolle) K. Feldberg**

coastal plain swamps or black spruce swamps, on soil or rotting logs

Bergen: *M. Howe s.n.*, 22 Sep 1898 (NY, YU)

Cumberland: *B. Long 853* (PH)

Essex: *C. Haynes 321* (FLAS)

Hunterdon: *J. Cantlon 1036* (CHRB)

Morris: *K. Holmen & M. Martin s.n.*, 14 Jun 1967 (UBC)

Sussex: *N. Miller 10086* (NYS)

Warren: *B. Allen 1498* (MO)

***Telaranea* (Lepidoziaceae)**

***Telaranea longifolia* (M. Howe) J. Engel & G. Merrill** - see *Telaranea nematoides*

***Telaranea nematoides* (Austin) M. Howe**

in swamps

Burlington: *W. Buck 28290* (NY)

Gloucester: *K. Barringer 21206* (BKL)

Monmouth: *C. Haynes s.n.*, [Amer. Hep. 19] (BKL, DUKE, FH, NY, TRH)

Morris: *K. Barringer & J. Rosenbaum 28047* (CHRB, PH)

***Trichocolea* (Trichocoleaceae)**

***Trichocolea tomentella* (Ehrh.) Dumortier**

limey to neutral soils along shaded streams, swamps

Bergen: *M. Howe s.n.*, 6 Oct 1898 (F, LSU, NY)

Hudson: *C. Austin s.n.*, s.d. (NY)

Middlesex: *N. Marshall* [Amer. Hep. 56] (BKL, FH, MIN, NY, OS, TRH, YU)

Monmouth: *C. Haynes 9* (NY)

Passaic: *K. Barringer 26949* (CHRB)

Sussex: *E. Moul 7186* (CHRB, NY)

***Tritomaria* (Lophoziaceae)**

***Tritomaria capitata* (Hooker) Stotler & Crandall-Stotler** – see *Schistochilopsis*

***Tritomaria exsecta* (Schrader) Loeske** (rare, historical)

on rocks or tree bark in uplands

Bergen: *C. Austin* [Hep. Bor.-Amer. 46] (BKL, F, NY, WIS, UBC)

References

I used the preliminary drafts of the liverwort treatments for the Flora North America extensively. These are currently posted on the Bryophyte Flora North America web site <https://www.mobot.org/plantscience/bfna/SUMMARY.htm>. The treatments used were:

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Changes:

2.01: Aug 13, 2021, from Ryan Schmidt, added Morris County records for *Porella platyphylloidea* and *Plagiochila asplenioides*.

2.02: Aug 16, 2021, from Erik Kiviati, added *Frullania brittoniae*

2.03 Sep 7, 2021: added Barringer & Rosenbaum Morris County collections.

2.04 Sep 22, 2021: corrected distribution of *Phaeoceros*

2.05 Nov 10 2021: corrected *Aneura pinguis* entry, added Morris County collection.

2.06 Dec 31 2021: typos corrected, added references.

2.07 Feb 19 2021: typos corrected, added records from Morris, Warren & Passaic Cos.

2.08 Mar 15 2021: added records from Morris and Passaic Counties.

2.09 Mar 22 2022: names brought into line with Söderstrom, et al, 2016

2.1 Apr 25 2022: added *Barbilophozia* based on Austin & Britton collections, *Scapania irrigua* & *S. mucronata* from FNA, *Schistochilopsis* from FNA, and references for above.