

A Checklist of the Mosses of New Jersey

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This list was developed from the lists compiled by Dr. Eric Karlin and his collaborators (Karlin 1988, 1990, 1992, 1994). In recent years, new collections, taxonomic revisions, and work for the *Flora of North America* have changed and expanded those lists.

The 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 Goffinet, et al. (2009). When available, data on the species preferred habitat and the time when capsules appear is included under each species. Vouchers are listed by county. Unless otherwise indicated, collections are by Barringer and are deposited at the Brooklyn Botanic Garden Herbarium (BKL).

Green = additions to the list

Red = deletions from the list

Blue = accepted taxa

Abietinella (Thuidiaceae)

A. abietina (Hedwig) Fleischer

capsules: uncommon, spring

Sussex: *Wiegmann 164* (NY)

Acaulon (Pottiaceae) - some NJ specimens are variable

A. muticum (Hedwig) Müll. Hal.

capsules: late fall- spring

soil, lawns, pastures

Burlington: *Kaiser s.n.*, 16 Mar 1912 (DUKE)

Camden: *Austin s.n.*, Oct 1808 (NY)

Gloucester: *James s.n.*, Jun 1850 (NY)

Ocean: *Austin s.n.* [*Musci App.* 52] (BKL, NY)

A. triquetrum (Spruce) Müll. Hal.

capsules: late autumn - spring

soil, sand, clay, old fields, roadsides

Burlington: *Gadsby s.n.*, 17 Mar 1912 (PH)

Amblystegium (Amblystegiaceae)

A. serpens (Hedwig) Schimper

capsules: spring - early summer

various moist substrates in swamps and other wet habitats

Bergen: *Wiegmann 1199* (NY)

Hunterdon: 22234

Middlesex: *Vail s.n.*, Aug 1890 (NY)
Morris: *Austin s.n.*, Jul 1867 (NY)
Passaic: *Nash s.n.*, 25 Apr 1890 (NY)
Sussex: 21086
Warren: 25053

A. serpens var. *juratzkanum* (Schimper) Rau & Herv. - see the species
A. varium (Hedwig) Lindberg - see *Hygrohypnum varium*

Amphidium (Orthotrichaceae)

A. lapponicum (Hedwig) Schimper

capsules: spring - early summer
seasonally wet crevices of acid cliffs

Morris: *Austin s.n.*, Jun 1867 (NY)
Warren: *Rau s.n.*, Nov. 1874 (NY)

A. mougeotii (Bruch & Schimper) Schimper - not in NJ *fide* FNA

Anacamptodon (Amblystegiaceae)

A. splachnoides (Bridel) Bridel

capsules: found all year, but especially spring
knotholes, crotches, and fissures of trees, especially beech, birch, and maple

Bergen: *Austin s.n.*, 5 Nov 1865 (NY)
Burlington: *Buck 28288* (NY)
Hunterdon: *Best s.n.*, 7 May 1894 (BKL, NY)
Sussex: 22009

Andreaea (Andreaeaceae)

A. rothii F. Weber & D. Mohr

capsules: spring - summer
on moist, exposed rocks and cliffs, especially along fissures

Bergen: 24807
Morris: 24770
Passaic: 24848
Sussex: 18212

A. rupestris Hedwig - not in NJ

Anomodon (Anomodontaceae)

A. attenuatus (Hedwig) Huber

capsules: fall
on wet to moist rocks or tree bases

Bergen: 18255
Camden: 21184
Essex: 22323
Hunterdon: 20753
Middlesex: *Austin s.n.*, 1 Aug 1867 (NY)

Morris: 22651
Passaic: 23166
Sussex: 22023
Union: *Wiegmann 60* (BKL, NY)
Warren: 18285

A. minor (Hedwig) Fürnrohr

capsules: fall
thin mats on calcareous rocks and tree bases
Bergen: *Austin s.n.*, 1874 (BKL, NY)
Hunterdon: *Best 105* (NY)
Passaic: *18182b*
Sussex: *24696*
Warren: *Buck 21602* (NY)

A. rostratus (Hedwig) Schimper

capsules: fall
base of deciduous trees or vertical surfaces on limestone rocks
Bergen: *Austin s.n.* (BKL, NY)
Cumberland: *Long 1141* (NY, PH)
Essex: *E. Britton & N. Britton s.n.*, 28 Oct 1882 (NY)
Hunterdon: *Moul 6781* (CHRB, NY)
Middlesex: *Best s.n.*, 11 May 1890 (NY)
Monmouth: *D. Levy s.n.*, 17 Jul 1910 (NY)
Morris: *18506*
Passaic: *24963*
Sussex: *20326*
Union: *Wiegmann 59*, 28 Feb 1915 (BKL, NY)
Warren: *18139*

A. rugelii (Müll. Hal.) Keissler

capsules: fall
on rocks and on tree trunks, usually 1-2 ft above the ground
Bergen: *18255*
Morris: *18508*
Sussex: *6471*

A. tristis (Cesati) Sullivan & Lesquereux - formerly *Haplohymenium triste*

capsules: never
on bases of deciduous trees
Bergen: *Grout 195* (BKL, NY)
Hudson: *Austin s.n.*, Mar 1864 (NY)
Hunterdon: *Best s.n.*, 25 Oct 1899 (NY)
Morris: *22221*

A. viticulosus (Hedwig) Hooker & Taylor

capsules: fall
on tree bases or rocks, especially in limestone areas

Sussex: *Wiegmann 175* (BKL, NY)
Warren: 21841

Aphanorrhagma (Funariaceae)

***A. serratum* (Hooker f. & Wilson) Sullivant**

capsules: fall - early winter
on soil along creeks, seasonally flooded woods, swamps
Bergen: *Austin s.n.* (NY)
Hunterdon: *Mitchell 631* (NY)

Archidium (Archidiaceae)

***A. ohioense* Schimper**

capsules: fall - spring
moist, exposed soil or wet rocks, roadsides
Bergen: *Austin s.n.*, Sep 1875 (NY)
Passaic: *Austin s.n.*, Apr 1867 (NY)

Astomum (Pottiaceae)

***A. muehlenbergianum* (Swartz) Grout** - see *Weissia muehlenbergiana*

Atrichum (Polytrichaceae)

***A. altecristatum* (Renauld & Cardot) Smyth & Smyth**

capsules: spring - summer
exposed soil in woods, roadsides, trailsides
Bergen: *E. Britton & N. Britton s.n.*, 28 Oct 1882 (NY)
Cumberland: *Long 729* (NY, PH)
Hunterdon: *Buck 22239* (NY)
Mercer: *Laning s.n.* (NY)
Monmouth: 7553
Morris: 22231
Somerset: *Barringer s.n.*, 4 Jun 2002(BKL)
Sussex: 19082
Warren: 21215

***A. angustatum* (Bridel) Bruch & Schimper**

capsules: spring - summer
disturbed, exposed soil, roadbanks
Atlantic: *Long 1632* (NY)
Bergen: 11547
Burlington: 17405
Camden: 20852
Cape May: *W. Taylor 1186* (DUKE)
Essex: *Mackenzie 640A* (NY)
Hunterdon: *Buck 22223* (NY)
Mercer: *Macloskie s.n.* (NY)

Morris: 17788
Ocean: *G. Smith 2459* (NY)
Passaic: 18067
Somerset: 18115
Sussex: 18612
Union: 20533
Warren: 18152

***A. crispulum* Bescherele** - formerly *A. oerstedianum*

capsules: summer

on soil in moist, shaded sites, especially near streams and swamps

Bergen: *Grout s.n.*, 8 Nov 1907 (DUKE)

Hudson: *Austin s.n.*, Apr 1866 (DUKE)

***A. crispum* (James) Sullivant**

capsules: spring-summer

usually on moist, sandy soil, especially in ditches and near streams or swamps

Atlantic: *J. K. Small s.n.*, 16 May 1893 (MO)

Bergen: *D. Levy 1181* (DUKE)

Burlington: *Beals s.n.* (NY)

Camden: *James s.n.* (NY, PH)

Hunterdon: *Buck 22186* (NY)

Mercer: 9366

Middlesex: 17863

Monmouth: *J. K. Small s.n.*, 16 May 1893 (CHRB, DUKE, NY)

Ocean: *Hoiberg s.n.*, 13 Nov 1960 (DUKE)

Somerset: *Moul 7206* (CHRB, NY)

***Atrichum oerstedianum* (Müll. Hal.) Mitten** - see *A. crispulum* or *A. altecristatum*

Aulacomnium (Aulacomniaceae)

***A. heterostichum* (Hedwig) Bruch & Schimper**

capsules: summer

on soil banks in oak woods

Bergen: *E. Britton s.n.*, 24 Jun 1889 (NY)

Cumberland: *Long 685* (NY)

Hunterdon: *Moul 6777* (NY)

Middlesex: *Best s.n.*, 11 May 1890 (NY)

Monmouth: *E. Britton s.n.*, 1910 (NY)

Morris: *Beals & M. Beals 440* (MO, NY)

Passaic: *G. P. Anderson s.n.* (NY)

Salem: *Long 989* (PH, NY)

Somerset: *Wiegmann 487* (NY)

Sussex: *Wiegmann 843* (NY)

***A. palustre* (Hedwig) Schwägrichen**

capsules: summer

on soil in swamps, ditches, disturbed bogs

Bergen: 20274

Burlington: 20689

Camden: 20838

Essex: *E. Britton s.n.*, 12 Jun 1901 (NY)

Gloucester: *Rau s.n.*, May 1880 (NY)

Hunterdon: *Buck 22242* (NY)

Mercer: 9360

Middlesex: 21814

Monmouth: 22853

Morris: 18569

Ocean: 22153

Passaic: 24930

Sussex: 6402

Warren: 22722

Barbula (Pottiaceae)

***B. convoluta* Hedwig**

capsules: spring and early summer

sand, rock, or soil, often associated with limestone, old mortar and concrete

Bergen: *Austin s.n.*, May 1872 (NY)

Burlington: *J. Ma s.n.*, 29 May 2002 (BKL)

Ocean: *s.l. s.n.*, 8 Apr 1906 (DUKE)

***B. indica* (Hooker) Sprengel** - not in NJ *fide* FNA

***B. unguiculata* Hedwig**

capsules: winter - early spring

disturbed sites on ground, sand, gravel, even walls

Atlantic: *S. Field s.n.*, 24 Feb 1990 (MO)

Bergen: *Clausen s.n.*, 3 Apr 1940 (NY)

Burlington: *Koster B9* (DUKE, MO, NY)

Hunterdon: *Best s.n.*, 15 Nov 1893 (NY)

Passaic: *Beals s.n.*, 18 Dec 1928 (DUKE)

Sussex: *Wiegmann s.n.*, 22 Jun 1916 (NY)

Bartramia (Bartramiaceae)

***B. pomiformis* Hedwig**

capsules: May-June

on soil in moist forests, occasionally on bases of trees

Bergen: *E. Britton 163* (NY)

Burlington: 16435

Cumberland: *Long 1579* (NY)

Essex: *E. Britton & N. Britton s.n.*, 28 Oct 1882 (NY)

Gloucester: *Lippincott s.n.*, 14 May 1899 (DUKE)

Hunterdon: 10324

Mercer: *Rankin s.n.*, 3 Apr 1886 (NY)
Middlesex: *Best s.n.*, 11 May 1890 (NY)
Morris: 21687
Ocean: *Grout s.n.*, 11 Apr 1906 (DUKE)
Passaic: 18077
Somerset: *Wiegmann 102* (NY)
Sussex: 18589
Warren: 24836

Brachythecium (Brachytheciaceae)

B. acutum (Mitten) Sullivant - see *B. salebrosum*

***B. acuminatum* (Hedwig) Austin**

capsules: fall

on bark at base of trees

Bergen: *Austin s.n.*, 8 Jul 1866 (NY)

Hudson: *Austin s.n.*, Feb 1867 (NY)

Hunterdon: *Best s.n.*, 18 Jan 1902 (NY)

Sussex: *s.l., s.n.*, Sep 1867 (NY)

***B. campestre* (Müll. Hal.) Schimper**

capsules: fall

on soil and rocks in moist areas

Bergen: *Austin s.n.*, 1868 (NY)

Burlington: *Koster 1321* (MO, NY)

Hudson: *Austin s.n.*, 1866 (NY)

Hunterdon: *Best s.n.*, 4 Nov 1897 (NY)

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

***B. digastrum* Müll. Hal. & Kindberg**

on rocks

Hunterdon: *Buck 22248* (NY)

***B. oxycladon* (Bridel) A. Jaeger**

capsules: late fall - winter

on soil and tree bases in woods

Bergen: *Austin s.n.*, May 1887 (NY)

Hunterdon: *Best s.n.*, 3 Nov 1898 (NY)

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

Passaic: 20549

Sussex: 12302

Warren: *Buck 21603* (NY)

B. plumosum (Hedwig) Schimper - see *Sciuro-hypnum plumosum*

B. populeum (Hedwig) Schimper - see *Sciuro-hypnum populeum*

B. reflexum (Starke) Schimper - see *Sciuro-hypnum reflexum*

***B. rivulare* Schimper**

capsules: fall

near streams and springs

Bergen: *Wiegmann 71* (NY)

Hunterdon: *Buck 22192* (NY)

Passaic: *Austin s.n.*, 1867 (NY)

Morris: *18244*

Sussex: *7437*

Warren: *Henley s.n.*, Jul 1940 (NY)

***B. rutabulum* (Hedwig) Schimper**

capsules: winter

on various substrates in moist, shaded sites

Bergen: *22280*

Hunterdon: *Buck 22238* (NY)

Middlesex: *17898*

Passaic: *24987*

Somerset: *20715*

Sussex: *6392*

Warren: *25079*

***B. salebrosum* (F. Weber & D. Mohr) Schimper**

capsules: fall - early winter

on various substrates in disturbed habitats

Bergen: *20267*

Burlington: *20691*

Hunterdon: *Buck 22219* (NY)

Morris: *18234*

Passaic: *20549*

Somerset: *Pletscher s.n.*, 27 Sep 1991 (NY)

Sussex: *12295*

Union: *20534*

Warren: *18161*

B. starkii (Bridel) Schimper - see *Sciuro-hypnum starkei*

***B. velutinum* (Hedwig) Schimper**

capsules: fall - spring

on soil in disturbed sites in wood, esp. along trails

Bergen: *Austin s.n.*, 1877 (NY)

Hunterdon: *Best s.n.*, 26 Nov 1896 (NY)

Passaic: *Nash s.n.*, 26 Apr 1890 (NY)

Sussex: *18097*

Union: *20535*

***Brotherella* (Pylaisiadelphaceae)**

***B. recurvans* (Michaux) M. Fleischer**

capsules: late autumn

on soil, logs and tree bases in moist to wet woods

Bergen: *D. Levy 1219* (DUKE)

Hudson: *Austin s.n.*, Sep 1867 (NY)
Hunterdon: *Best s.n.*, 1893 (NY)
Middlesex: *Wiegmann s.n.*, 22 Jun 1913 (NY)
Monmouth: *Beals s.n.*, 14 May 1933 (NY)
Ocean: *Austin s.n.*, 1868 (NY)
Passaic: *Tees 1107* (NY)
Sussex: *Buck 21550* (NY)

Bruchia (Bruchiaceae)

***B. flexuosa* (Schwägrischen) Müll. Hal.**

capsules: spring-summer
moist soil among grasses
Bergen: *G. Nearing s.n.*, 4 Jun 1944 (NY)
Burlington: *D. Lane 1052* (DUKE, MO)
Camden: *Austin s.n.*[*Musci App.*56] (NY)
Gloucester: *Rau s.n.*, Jun 1882 (NY)
Mercer: *James s.n.*, May 1850 (NY)
Monmouth: *Beals 1676x* (DUKE)
Passaic: *Beals 1641x* (DUKE, NY)

Bryhnia (Brachytheciaceae)

***B. graminicolor* (Bridel) Grout**

moist soil or rock in limestone region
Hunterdon: *Buck: 22190* (NY)
Sussex: *Wiegmann 129* (BKL, NY)

***B. novae-angliae* (Sullivant & Lesquereux) Grout**

capsules: fall - winter
wet, shaded spots along streams
Bergen: *Wiegmann s.n.*, 10 Oct 1916 (NY)
Hunterdon: *Best s.n., s.d.* (NY)
Mercer: *Tees 77* (NY)
Morris: *Heneley s.n., Jul 1940* (NY)

Bryoandersonia (Brachytheciaceae)

***B. illecebra* (Hedwig) H. Robinson**

capsules: fall
on soil and on tree bases in oak woods
Cumberland: *Long 683* (NY, PH)
Essex: *Beals s.n.*, 1930 (NY)
Hunterdon: *20768*
Ocean: *C. Gilly s.n.*, 25 Oct 1941 (NY)
Passaic: *20598*
Somerset: *22207*
Sussex: *18041*

Warren: 21830

Bryoerythrophyllum (Pottiaceae)

***B. recurvirostre* (Hedwig) P. C. Chen**

capsules: summer - fall
on soil, limestone, and cement
Sussex: *Bartram 697* (DUKE)

Bryohaplocladium (Leskeaceae)

***B. microphyllum* (Hedwig) Watanabe & Iwatsuki**

disturbed sites, calciphile
Bergen: *Austin s.n.*, 1866 (NY)
Sussex: *20322*

***B. virginianum* (Bridel) Watanabe & Iwatsuki**

capsules: spring
disturbed or burned sites, acidophile
Bergen: *Austin 299* (NY)
Gloucester: *9763*
Hunterdon: *Best s.n.*, 22 Jul 1904 (NY)
Mercer: *Barringer s.n.*, 6 May 2003 (BKL)
Morris: *Henely s.n.*, Jul 1940 (NY)
Passaic: *Austin s.n.*, 1867 (NY)

Bryum (Bryaceae)

***B. algovicum* Müll. Hal.** - not in NJ

on wet sand, dune swales

***B. argenteum* Hedwig**

capsules spring - early summer
on soil in open disturbed sites
Bergen: *18256*
Essex: *18261*
Hudson: *9702*
Hunterdon: *H. Fisher s.n.*, 1891 (NY)
Monmouth: *L. Anderson s.n.* (DUKE)
Morris: *Delencick s.n.*, 28 May 1900 (BKL)
Ocean: *Austin s.n.*, Jul 1869 (NY)
Sussex: *18203*
Warren: *18311*

***B. caespiticium* Hedwig** - see *Gemmabryum caespiticium*

***B. capillare* Hedwig** - see *Rosulabryum capillare*

***B. cyclophyllum* (Schwägrischen) Bruch & Schimper** -see *Ptychostomum cyclophyllum*

***B. dichotomum* Hedwig** - see *Gemmabryum dichotomum*

***B. lisae* var. *cuspidatum* (Bruch & Schimper) Margadant** -see *Ptychostomum creberrimum*

***B. muehlenbeckii* Bruch & Schimper** - see *Imbribryum muehlenbeckii*

Bryum pseudotriquetrum (Hedwig) Gaertner *et al.* - see *Ptychostomum pseudotriquetrum* and *P. bimum*

B. radiculosum Bridel - not in NJ

B. uliginosum (Bridel) Bruch & Schimper - see *Ptychostomum cernuum*

Bucklandiella (Grimmiaceae)

***B. microcarpa* (Hedwig) Bednarek-Ochyra & Ochyra** - *fide* FNA

on acid rocks, cliffs, especially in late snow areas, underhangs of cliffs

***B. venusta* (Frisvoll) Bednarek-Ochyra & Ochyra** - formerly *Racomitrium venustum*

on acid rocks, cliff faces and bluffs, exposed, dry

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

Buxbaumia (Buxbaumiaceae)

***B. aphylla* Hedwig**

capsules: late Spring-Fall

usually on soil or rotting wood in well-lit, usually disturbed sites, roadsides

Atlantic: *Long 1238* (DUKE, PH)

Bergen: *Austin s.n.*, Jun 1893 (BKL, NY)

Burlington: *Koster s.n.*, 10 Apr 1937 (NY)

Cape May: *Long 1543* (DUKE, PH)

Cumberland: *Long 1510* (DUKE, PH)

Gloucester: *Long 1514* (DUKE)

Hunterdon: *Best s.n.*, 20 Jun 1892 (NY)

Ocean: *Tees 1366* (DUKE)

Passaic: *A. Northrup s.n.*, 9 Nov 1919 (NY)

Warren: *S. Kipe s.n.*, Oct 1884 (NY)

Callicladium (Hypnaceae)

***C. haldanianum* (Greville) Crum**

capsules: fall – early winter

on rotting wood or on tree bark, esp. at edges of woods

Bergen: *20274*

Cumberland: *Long 596* (NY, PH)

Hunterdon: *20810*

Monmouth: *9236*

Morris: *18236*

Passaic: *12597*

Sussex: *15992*

Union: *20076*

Warren: *22725*

Calliargon (Calliargonaceae)

***C. cordifolium* (Hedwig) Kindberg**

along streams and ditches, swamps

Bergen: *Austin s.n.*, Nov 1869 (NY)
Hudson: *Austin s.n.*, 1865 (BKL, NY)
Middlesex: *Austin s.n.*, 1862 (NY)
Morris: *J. K. Small s.n.*, 12 Aug 1890 (NY)
Passaic: 24892
Sussex: *E. Britton & Britton s.n.*, Sep 1887 (NY)

***C. giganteum* (Schimper) Kindberg**

emergent of slightly submerged in shallow puddles or ditches
Sussex: *Garber s.n.*, *s.d.* (NY)

Calliergonella (Hypnaceae)

***C. cuspidata* (Hedwig) Loeske**

capsules: late spring – summer
rich fens and sedge meadows, calciphile?
Passaic: *Nash s.n.*, 30 May 1890 (NY)
Sussex: 25289
Warren: 25050

Campyladelphus (Amblystegiaceae)

***C. chrysophyllus* (Bridel) H. Kandra** - formerly *Campylium chrysophyllum*

capsules: spring – early summer
on moist to wet soil in woods, calciphile
Bergen: *Wiegmann 22* (BKL)
Morris: 7481
Warren: 18151

Campylium (Amblystegiaceae)

C. chrysophyllum (Bridel) J. Lange - see *Campyladelphus chrysophyllus*

C. hispidulum (Bridel) Mitten - see *Campylophyllum hispidulum*

C. polygamum (Schimper) C. Jensen - see *Drepanocladus polygamus*

C. radicale (P. Beauvois) Grout - see *Pseudocampylium radicale*

***C. stellatum* (Hedwig) C. Jensen**

capsules: spring
on wet soil in rich fen and calcareous meadows
Bergen: *Austin s.n.*, 19 Sep 1871 (BKL, NY)
Passaic: 23170
Sussex: 21124

Campylophyllum (Hypnaceae)

***C. hispidulum* (Bridel) L. Hedenäs** - formerly *Campylium hispidulum*

on soil and decaying wood in woods, calciphile?
Bergen: *Wiegmann 22* (NY)
Burlington: *Zanoni 4874* (NY)
Hunterdon: *Buck 22236* (NY)

Monmouth: *Britton s.n.* (NY)
Morris: 17776
Passaic: 18073
Sussex: *Wiegmann 168* (BKL, NY)
Warren: *Beals s.n.*, 11 Sep 1938 (NY)

Campylopus (Leucobryaceae)

***C. carolinae* Grout**

sandy soil

Ocean: *J. Kekes 3001* (MO, PH, NY)

Campylostelium (Ptychomitriaceae)

***C. saxicola* (F. Weber & D. Mohr) Bruch & Schimper**

capsules Oct-May

on shaded sandstone, gneiss, or granite boulders and cliffs in woods

Bergen: *Austin s.n.* [*Musci App.* 109] (BKL, NY)

Ceratodon (Ditrichaceae)

***C. purpureus* (Hedwig) Bridel**

capsules: summer-fall

on soil in openings, rock outcrops and burned sites

Bergen: *Wurdack & Cowan 29* (NY)

Burlington: 11462

Camden: 20843

Hudson: 11496

Hunterson: *Best s.n.*, 1894 (NY)

Middlesex: 7523

Monmouth: *Weikert s.n.* (NY)

Morris: 18237

Ocean: *Eiten & Brooks 1408* (NY)

Passaic: *Nash s.n.*, 24 Apr 1890 (DUKE, NY)

Sussex: 18092

Warren: 18137

Cirriphyllum (Brachytheciaceae)

***C. piliferum* (Hedwig) Grout**

on soil in wet shaded places, swamps

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

Clasmatodon (Brachytheciaceae)

***C. parvulus* (Hampe) Hooker & Wilson** - not in NJ

Cleistocarpidium (Ditrichaceae)

***C. palustre* (Bruch & Schimper) Ochyra & H. Bednarek-Ochyra** -formerly *Pleuroidium palustre*

capsules: May - Jun
on wet sand in coastal plain swamps, pine barrens swamps
Camden: *James s.n.* 25 Apr 1853 (DUKE, NY)

Climacium (Climaciaceae)

***C. americanum* Bridel**

capsules: fall
swamps and wet woods
Bergen: 20269
Cumberland: *Long 1281* (NY, PH)
Essex: *Wiegmann 758* (NY)
Hunterdon: *Buck 22235* (NY)
Mercer: *James s.n.* (NY)
Passaic: 20473
Somerset: 18104
Sussex: 6538
Union: 19280
Warren: *Buck 21588* (NY)

***C. dendroides* (Hedwig) F. Weber & D. Mohr**

Bergen: *Austin s.n.*, Oct 1865 (NY)
Warren: *Schaeffer 40* (NY)

***C. kindbergii* (Renauld & Cardot) Grout**

capsules: fall
on wet soil in woods and swamps
Bergen: *Wiegmann 791* (NY)
Hunterdon: *Best s.n.*, 1867 (NY)
Passaic: *Yarrow s.n.*, 3 Sep 1967 (NY)
Sussex: *Beals s.n.*, 15 Jul 1934 (NY)

Codriophorus (Grimmiaceae)

***C. acicularis* (Hedwig) P. Beauvois** (formerly *Racomitrium aciculare*)

moist to wet acid, or rarely calcareous, rocks, especially in or near streams
Bergen: *D. J. Levy 1831* (DUKE)
Somerset: 18130

***C. aduncoides* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra**

wet, acidic boulders in streams or on dripping cliffs, sometimes submerged in cascades
Somerset: *Beals 1964* (DUKE)

Cratoneuron (Amblystegiaceae)

***C. filicinum* (Hedwig) Spruce**

on wet soil above streams and springs in limestone regions
Passaic: *Nash s.n.* (NY)
Sussex: 21087

Cryphaea (Cryphaeaceae)

***C. glomerata* Sullivant**

capsules: Sep-Jun

on twigs, branches and trunks of deciduous trees and shrubs

Hunterdon: *Buck 22227* (NY)

Ctenidium (Hylacomniaceae)

***C. malacodes* Mitten** - ours are *C. subrectifolium*

***C. subrectifolium* (Bridel) Buck & B. Allen**

on soil or rotting wood in swamps

Bergen: *Wiegmann 166* (NY)

Hunterdon: *Buck 22237* (NY)

Morris: *18242*

Passaic: *20548*

Sussex: *Bartram 107* (PH)

Warren: *22100*

Cyrto-hypnum (Thuidiaceae)

***C. minutulum* (Hedwig) Buck & Crum**

capsules: Feb-Aug

moist woods on rotting logs or limestone rocks

Bergen: *Austin s.n.*, Aug 1874 (NY)

Sussex: *Austin s.n.*, Sep 1867 (NY)

***C. pygmaeum* (Schimper) Buck & Crum**

capsules: Jul-Sep

on moist rocks and soil in limestone woods

Bergen: *Austin s.n.*, 1875 (NY)

Hunterdon: *Best s.n.*, 5 Dec 1902 (NY)

Sussex: *s.l. s.n.*, Sep 1867 (NY)

Warren: *Beals s.n.*, 11 Sep 1938 (NY)

Desmatodon (Pottiaceae)

***D. obtusifolius* (Schwaegr.) Schimper** - see *Tortula obtusifolia*

Dichelyma (Fontinalaceae)

***D. capillaceum* (Withering) Myrin**

in swamps on roots and tree bases where periodically submerged

Bergen: *Austin s.n.*, Oct 1877 (NY)

Passaic: *24946*

Dichodontium (Dicranaceae)

***D. pellucidum* (Hedwig) Schimper**

capsules: late fall-spring

moist exposed soil or rocks, especially near streams

Essex: *s.l. s.n.*, 9 Aug 1896 (DUKE)
Passaic: *Austin s.n.*, 1867 (NY)

Dicranella (Dicranaceae)

***D. cerviculata* (Hedwig) Schimper**

capsules: summer
disturbed soil, especially roadsides
Hudson: *s.l.* 3, Oct 1833 (NY)
Hunterdon: *Tan 1542* (NY)
Monmouth: *D. Levy 2119* (DUKE)

***D. heteromalla* (Hedwig) Schimper**

capsules: spring & summer
shaded soil banks, along trails and upturned roots
Bergen: *Wiegmann 264* (BKL, NY)
Burlington: *11659c*
Camden: *20850*
Essex: *Wiegmann 263* (NY)
Hudson: *Sartwell s.n., s.d.* (NY)
Hunterdon: *Tan 1533* (NY)
Middlesex: *21783*
Monmouth: *22849*
Morris: *16043*
Ocean: *Austin 191* (NY)
Passaic: *18031*
Sussex: *6395*
Union: *Wiegmann 55* (NY)
Warren: *15987*

***D. rufescens* (Withering) Schimper**

capsules: spring-summer
wet soil of roadbanks and streambanks
Bergen: *Austin s.n.*, 1864 (BKL)

***D. schreberiana* (Hedwig) Hilferty**

capsules: fall
wet soil on roadbanks, rock crevices
Sussex: *Bartram 693* (DUKE)

***D. varia* (Hedwig) Schimper**

capsules: spring
wet, calcareous soil, especially disturbed sites
Morris: *Austin s.n.*, Nov 1865 (NY)
Passaic: *Beals s.n.*, 18 Dec 1928 (DUKE)
Sussex: *20342*
Warren: *24826*

Dicranodontium (Dicranaceae)

D. denudatum (Bridel) E. Britton - not found in NJ but possible, check Highlands
moist, shaded acidic outcrops or wet depressions

Dicranum (Dicranaceae)

***D. condensatum* Hedwig**

capsules: spring

exposed sand or limestone

Burlington: *Allen 16871* (MO, NY)

Camden: *M. Robertson 3376* (DUKE)

Cape May: *Taylor 203* (DUKE)

Gloucester: *Rau s.n., s.d.* (NY)

Monmouth: *J. K. Small S-128* (NY)

Ocean: *Long 2229* (DUKE)

Salem: *Long 1273* (DUKE, PH)

***D. flagellare* Hedwig**

capsules spring

rotting wood or rarely soil

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

Burlington: *20690*

Monmouth: *D. Levy 2563* (DUKE)

Ocean: *J. K. Small s.n., 14 Apr 1894* (DUKE, NY)

Passaic: *24932*

Sussex: *24887*

***D. fulvum* Hooker**

capsules: spring

rock outcrops and cliff faces, boulders

Bergen: *Wiegmann s.n., 9 Jul 1915* (DUKE, NY)

Hudson: *Kaiser s.n., 31 Aug 1917* (DUKE)

Hunterdon: *Buck 22183* (NY)

Mercer: *James s.n., Nov 1850* (NY)

Passaic: *20517*

Sussex: *25322*

Warren: *25152*

***D. fuscescens* Turner** - not in NJ?

capsules spring

stumps, base of trees, rotting wood, or moist outcrops

Sussex: *6401*

***D. montanum* Hedwig**

capsules: spring

rotting wood or occasionally on soil

Bergen: *Austin s.n., 8 Sep 1871* (NY)

Hunterdon: *Best s.n., 25 Dec 1902* (DUKE)

Passaic: *20665*

Sussex: *24678*

Warren: 25148

***D. muehlenbeckii* Bruch & Schimper**

capsules: summer

sandy soil on bluffs, boulders, and outcrops, usually open sites

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

Passaic: 12566

Sussex: *Wiegmann 141* (DUKE, NY)

***D. ontariense* Peterson – fide FNA**

capsules spring

on soil in conifer woods or rarely in bogs

***D. polysetum* Swartz**

capsules: spring

on soil and rotting wood in conifer woods or swamps

Hudson: *Austin 97* (NY)

Hunterdon: *Best s.n.*, 24 Aug 1897 (NY)

Passaic: 23146

Sussex: *Nash s.n.*, 26 Jul 1909 (NY)

D. rhabdocarpum **Sullivant** - not in NJ, see *D. montanum* or *D. viride*

***D. scoparium* Hedwig**

capsules spring

on soil or rotting wood in dry woodlands, swamps, and fens

Bergen: 22294

Burlington: 24999

Camden: *Parker s.n.* (NY, PH)

Cape May: *Long 674* (DUKE, PH)

Cumberland: *Long 1164* (NY, PH)

Hunterdon: *Buck 22224* (NY)

Middlesex: *Best s.n.*, May 1890 (NY)

Monmouth: *S. Dubois s.n.* 29 Nov 1984 (DUKE)

Morris: 18231

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

Passaic: 12530

Sussex: 18606

Warren: 22697

***D. spurium* Hedwig**

capsules: spring

sandy or acid soil, or soil over outcrops in pine woods or bogs

Burlington: *B. Allen 16876* (MO)

Union: *Wiegmann 94* (NY)

Warren: 18315

***D. undulatum* Bridel**

capsules: spring

bogs, fens, swamps on soil or rotting wood

Bergen: *Wiegmann 107* (NY)

Hunterdon: *Best s.n.*, 19 Jun 1897 (NY)
Morris: *Austin 93* (NY)
Passaic: *20487*
Sussex: *Best s.n.*, 15 Apr 1896 (NY)

***D. viride* (Sullivant & Lesquereux) Lindberg**

capsules: spring
base of trees and stumps, rarely on rocks
Sussex: *s.l. s.n.*, 25 May 1929 (DUKE)

Didymodon (Pottiaceae)

***D. fallax* (Hedwig) Zander**

capsules: all year
on soil, concrete, and limestone rocks
Bergen: *Austin s.n.*, 31 Oct 1868 (NY)
Essex: *Wiegmann 428* (BKL, NY)
Sussex: *Bartram s.n.*, 13 Sep 1921 (NY)

***D. fallax* var. *reflexus* (Bridel) Zander**

***D. tophaceus* (Bridel) Lisa**

Sussex: *Bartram 926* (DUKE)

Diphyscium (Buxbaumiaceae)

***D. foliosum* (Hedwig) D. Mohr**

capsules: summer
on exposed soil or shallow soil on rocks
Bergen: *Kuwahara 6951* (NY)
Cumberland: *Long 105a* (MICH)
Gloucester: *Long 1836* (DUKE)
Hunterdon: *G. Merrill 11576* (MICH)
Mercer: *Best s.n.*, 23 Jun 1892 (US)
Monmouth: *21589*
Morris: *16047*
Passaic: *E. Britton s.n.*, 29 May 1882 (NY)
Somerset: *Moul 7765* (CHRB, NY)
Sussex: *7456*
Warren: *22417*

Discelium (Disceliaceae)

***D. nudum* (Dickson) Bridel**

capsules: Spring
on moist, shaded, exposed soil banks in woods, railroad embankments
Hunterdon: *Best s.n.*, 2 Apr 1897 (NY)

Ditrichum (Ditrichaceae)

***D. ambiguum* Best** - western, not in NJ, see *D. tortuloides*

***D. lineare* (Swartz) Lindberg**

capsules: Apr-May

pioneer species on bare, often sandy, soil or roadbanks and disturbed habitats

Essex: *Beals s.n.*, 20 Oct 1926 (MO)

Hunterdon: *Best s.n.*, 28 Sep 1903 (NY)

Monmouth: *D. Levy 569* (DUKE)

Ocean: *Wilson 2* (NY)

***D. pallidum* (Hedwig) Hampe**

capsules: Feb-Jul

on soil in somewhat dry, open sites

Bergen: *Austin s.n.*, 17 Jun 1865 (MO)

Cape May: *Long 671* (NY, PH)

Hunterdon: *Cantlon s.n.*, 15 Apr 1949 (CHRB, NY)

Monmouth: *J. K. Small s.n.*, 14 Apr 1894 (CHRB, NY)

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

Ocean: *Wilson s.n.*, 7 Jun 1908 (NY)

Sussex: 20346

***D. pusillum* (Hedwig) Hampe**

capsules: Apr-Jun

on bare soil in opening, disturbed sites, roadbanks

Bergen: *s.l. s.n.*, 1877 (NY)

Camden: 20837

Essex: *Wiegmann 984* (NY)

Hunterdon: *Best s.n.*, 28 Oct 1904 (NY)

Morris: *E. Britton & Britton s.n.*, 20 Sep 1882 (NY)

***D. tortuloides* Grout** - not reported for NJ, but specimens called *D. ambiguum* may go here

***Drepanocladus* (Amblystegiaceae)**

***D. aduncus* (Hedwig) Warnstorf**

capsules: summer

on wet soil and sometimes submerged, calciphile

Bergen: *Austin s.n.*, 1 Jun 1865 (NY)

Morris: *Porter s.n.*, 12 Aug 1901. (NY)

Passaic: *Austin s.n.*, Jun 1867 (NY)

Sussex: 25282

Warren: 25240

***D. aduncus* var. *kneiffii* (Schimper) Mönkemeyer** - see *D. polygamus*

***D. polycarpus* (Blandow) Warnstorf** - see *D. aduncus*

***D. polygamus* (B.S.G.) L. Hedenäs** - formerly *Campylium polygamum*

rich fens, ditches

Bergen: *Austin s.n.*, Apr 1867 (NY)

Morris: *E. Britton s.n.* (NY)

Passaic: *Austin s.n.*, [*Musci App.* 405] (BKL, NY)

Sussex: *E. Bartram s.n.*, 9 Jun 1921 (NY)

Warren: *Beals & Wiegmann s.n.*, 11 Sep 1938 (MO, NY)

I. ***sordidus* (Müll. Hal.) L. Hedenäs**

capsules: spring – early summer

lakes, rich fens

Morris: *J. K. Small s.n.*, Nov 1894 (NY)

Drummondia (Orthotrichaceae)

***D. prorepens* (Hedwig) E. Britton**

on trunks and branches of deciduous trees

Bergen: *Jelliffe s.n.*, May 1890 (BKL, NY)

Essex: *Rankin & E. Britton s.n.*, 28 Oct 1882 (CHRB)

Gloucester: *s.l. s.n.*, 10 May 1890 (NY)

Hunterdon: *Best s.n.*, 4 Mar 1892 (NY)

Mercer: *Macloskie 6* (NY)

Monmouth: *J. K. Small s.n.*, 14 Apr 1894 (CHRB, NY)

Passaic: *Britton & E. Britton s.n.*, 10 Jun 1882 (CHRB)

Sussex: *Britton s.n.*, 15 Sep 1887 (CHRB)

Encalypta (Encalyptaceae)

***E. procera* Bruch**

on limestone and calcareous soils

Sussex: *Bartram 6017* (DUKE)

Entodon (Entodontaceae)

***E. brevisetus* (Hooker & Wilson) Lindberg**

on soil, tree bases, rocks, calciphile

Hunterdon: *Best s.n.*, 1891 (NY)

Sussex: *18200*

***E. cladorrhizans* (Hedwig) Müll. Hal.**

capsules: fall

on rotting wood and at the base of trees, in shade

Bergen: *Austin 78* (NY)

Hunterdon: *Buck 21576* (NY)

Morris: *22630*

Sussex: *6469*

Warren: *18160*

***E. compressus* (Hedwig) Müll. Hal.**

Hudson: *J. Torrey 60* (NY)

Hunterdon: *Best s.n.*, 6 Jun 1904 (NY)

Ocean: *Beals s.n.*, 15 Nov 1942 (NY)

***E. seductrix* (Hedwig) Müll. Hal.**

capsules: fall – early winter

on rotting wood and at the base of trees, in shade

Atlantic: *S. Field s.n.* 24 Feb 1990 (MO)

Bergen: *D. Levy 1200* (DUKE)
Cumberland: *S. Field s.n.*, 11 Jan 1990 (MO)
Hunterdon: *Buck 22230* (NY)
Morris: *22227*
Ocean: *Beals s.n.*, 15 Nov 1942 (NY)
Passaic: *18072*
Salem: *Long 1593* (DUKE)
Somerset: *18105*
Sussex: *20587*
Union: *20092*
Warren: *18144*

Ephemerum (Ephemeraceae)

***E. cohaerens* (Hedwig) Hampe**

capsules: year-round
moist or drying disturbed soil

***E. crassinervium* (Schwägrischen) Hampe**

capsules: year-round
moist or drying, disturbed soil

Bergen: *Austin s.n.*, Oct 1873 (NY)

***E. serratum* (Hedwig) Hampe**

capsules: year-round, but mostly autumn
limestone soils in lawns, meadows, pastures

Bergen: *Austin s.n.* [*Musci App.* 47b] (BKL, NY)

***E. spinulosum* Bruch & Schimper**

capsules: year-round
moist, disturbed soil, especially ditches, paths, swamps

Bergen: *Austin s.n.* [*Musci App.* 49] (BKL, NY)

Eurhynchiastrum (Brachytheciaceae)

***E. pulchellum* (Hedwig) Ignatov & Huttunen** (formerly *Eurhynchium pulchellum*)

usually in shade of woods on soil or rotting wood

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

Hunterdon: *Best s.n.*, 16 Nov 1896 (NY)

Mercer: *Best s.n.*, 27 Nov 1907 (NY)

Eurhynchium (Brachytheciaceae)

***E. hians* (Hedwig) Sande Lac.**

on soil in shaded, often disturbed places

Bergen: *Grout 87* (BKL, NY)

Hunterdon: *Fisher s.n.*, 1 May 1897 (NY)

Morris: *Austin s.n.*, Jun 1868 (NY)

Warren: *25037*

***E. pulchellum* (Hedwig) Jennings** - see *Eurhynchiastrum pulchellum*

Fabronia (Fabroniaceae)

***F. ciliaris* (Bridel) Bridel**

on tree bark

Warren: *Rau s.n.*, Nov 1874 (NY)

Fissidens (Fissidentaceae)

***F. adianthoides* Hedwig**

wet, often drippy substrates, and wet soil around the base of trees

Bergen: *D. Levy 1866* (DUKE)

Essex: *Wiegmann s.n.*, 3 Nov 1916 (NY)

Hunterdon: *22194*

Morris: *23531*

Passaic: *20609*

Sussex: *19932*

Warren: *25043*

***F. bryoides* Hedwig**

capsules: summer

moist, shaded sites on soil or rocks, often at the base of trees

Bergen: *Wiegmann 1265* (NY)

Cumberland: *Wilson s.n.*, 21 Jul 1908 (NY)

Hudson: *Austin 280* (NY)

Hunterdon: *Buck 22184* (NY)

Morris: *D. Levy s.n.*, 27 Aug 1916 (DUKE)

Passaic: *21435*

Somerset: *Austin s.n.*, 11 Aug 1867 (NY)

Sussex: *21564*

Warren: *Buck 21531* (NY)

***F. bushii* (Cardot & Thériot) Cardot & Thériot – fide FNA**

disturbed soil in woods, roadsides, trailsides (Mostly acidic substrates)

***F. closteri* Austin**

on rocks along streams

Bergen: *Austin s.n.*, Aug 1871 (MO, NY)

***F. dubius* P. Beauvois**

capsules: fall

on soil or rocks in moist to wet, shaded woods

Burlington: *Zanoni 4870* (NY)

Cumberland: *Long 1378* (DUKE)

Hunterdon: *20751*

Morris: *Miller 1382* (NY)

Passaic: *Torrey s.n.*, Nov 1866 (NY)

Somerset: *Austin s.n.*, 11 Aug 1867 (NY)

Union: *18132*

Sussex: *25288*

Warren: 25149

***F. exilis* Hedwig**

on soil of shaded banks

Hunterdon: *Buck 22181* (NY)

***F. fontanus* (B. Pylaie) Steudel**

various substrates in stagnant or slow-flowing water

Bergen: *Wiegmann 199* (NY)

Essex: *Wiegmann 179* (NY)

Hunterdon: *Best s.n.*, 24 May 1890 (NY)

Morris: *Allen 16248* (MO)

Passaic: *E. Britton & Britton s.n.*, 10 Jun 1882 (NY)

Sussex: *6178*

***F. hallianus* (Sullivant & Lesquereux) Mitten**

on rocks in slow-moving or stagnant water, bases of trees in swamps

Sussex: *Austin s.n.*, Sep 1867 (NY)

***F. minutulus* Sullivant** - not reported in NJ, but could be here

on limestone and soil near shaded streams

***F. obtusifolius* Wilson** - not in NJ?

on limestone near streams and waterfalls, sometimes on wet bricks

***F. osmundioides* Hedwig**

moist, shaded rocks, often in spray zones, hummocks in swamps and fens

Bergen: *Beals 295* (NY)

Hunterdon: *Moul & Cantlon 879* (CHRB, NY)

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

Passaic: *21431*

Warren: *Austin s.n.*, Oct 1871 (NY)

***F. subbasilaris* Hedwig**

capsules: fall

base of trees, limestone rocks and decaying wood

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

Hunterdon: *Best s.n.*, 15 Jun 1891 (NY)

Sussex: *24693*

Warren: *24824*

***F. taxifolius* Hedwig**

capsules: late fall - winter

damp, shaded soil and rocks, mild calciphile

Bergen: *Wiegmann 1001* (NY)

Hudson: *Austin s.n.*, Mar 1864 (NY)

Hunterdon: *Buck 22220* (NY)

Passaic: *Austin s.n.*, 1869 (NY)

Union: *Wiegmann 93* (NY)

Warren: *22097*

Fontinalis (Fontinalaceae)

***F. antipyretica* Hedwig**

on rocks in flowing water

Bergen: *Austin s.n.*, 1865 (NY)

Morris: *Wiegmann 65* (NY)

Passaic: *21321*

Sussex: *Moul 7440* (CHRB, NY)

***F. dalecarlica* Schimper**

on rocks in fast moving streams

Bergen: *Austin s.n.*, 1865 (NY)

Monmouth: *Long 2993* (NY, PH)

Morris *E. Britton s.n.*, 30 May 1892 (NY)

Passaic: *E. Britton & Britton s.n.*, 30 May 1892 (NY)

Sussex: *16780*

***F. hypnoides* Hartman**

on rocks, roots, and fallen branches at the shallow edge of ponds and in shallow streams

***F. novae-angliae* Sullivant**

on rocks, roots, and fallen branches in shallow, flowing streams

Bergen: *18168*

Cumberland: *Long 1516* (NY, PH)

Hunterdon: *Buck 22196* (NY)

Mercer: *Claus s.n.*, 4 Nov 1958 (NY)

Morris: *18400*

Ocean: *Owens s.n.*, 18 Jun 1948 (NY)

Passaic: *20468*

Sussex: *6177*

***F. sullivantii* Lindberg**

on rocks in pools or sluggish streams

Atlantic: *Kaiser s.n.*, 20 Jun 1914 (NY)

Bergen: *22275*

Mercer: *Claus s.n.*, 31 Oct 1958 (NY)

Salem: *MacElwee s.n.*, 15 Jun 1895 (NY)

***Forsstroemia* (Leptodontaceae)**

***F. trichomitria* (Hedwig) Lindberg**

capsules: winter

on deciduous tree trunks and rarely on rocks

Bergen: *Austin s.n.*, Nov 1872 (NY)

Burlington: *Best s.n.*, 28 May 1892 (NY)

Hunterdon: *Best s.n.*, 21 May 1894 (NY)

Sussex: *Britton s.n.*, 21 Sep 1902 (NY)

***Funaria* (Funariaceae)**

***F. flavicans* Michaux**

disturbed soil, especially near foundations and roadsides, weedy

Bergen: *Wurdack & Cowan 28* (NY)
Hunterdon: *Best s.n.*, 13 May 1891 (NY)
Ocean: *Grout s.n.*, 10 Apr 1906 (NY)

***F. hygrometrica* Hedwig**

disturbed soil, weedy

Bergen: *Lloyd s.n.*, Oct 1901 (NY)
Gloucester: *Rau s.n.*, Jun 1885 (NY)
Hudson: 7503
Hunterdon: *Best s.n.*, 10 Jun 1893 (NY)
Middlesex: *Moul 7577* (CHRB, NY)
Monmouth: *J. K. Small s.n.*, 14 Apr 1894 (CHRB, NY)
Morris: *s.l. s.n.*, Nov 1867 (NY)
Ocean: *Grout s.n.*, 8 Apr 1893 (NY)
Passaic: *Nash s.n.*, 25 Apr 1893 (NY)
Sussex: 7667
Warren: 20928

***Gemmabryum* (Bryaceae)**

***G. caespiticium* (Hedwig) J. R. Spence** - formerly *Bryum caespiticium*

on soil in disturbed sites

Bergen: *Austin s.n.*, 1865 (NY)
Burlington: *Zanoni 4872* (NY)
Hudson: 18269
Hunterdon: *Best s.n.*, 20 May 1892 (NY)
Passaic: *Nash s.n.*, 27 Apr 1892 (NY)
Sussex: *Wiegmann 903* (BKL, NY)

***G. dichotomum* Hedwig** - formerly *Bryum dichotomum*

moist, disturbed soil, especially cornfields

Bergen: *Austin s.n.*, *s.d.* (NY)
Sussex: *Austin s.n.*, Nov 1875 (NY)

***Grimmia* (Grimmiaceae)**

***G. elatior* Bals & DeNotaris** - In FNA as the only population found E of the Mississippi.

CHRB collection is mixture of *Hedwigia* and *Schistidium rivulare*.

exposed, acid rock

Somerset: *Moul 7302* (CHRB, NY)

***G. laevigata* (Bridel) Bridel**

exposed, acidic rocks

Bergen: *Austin 645* (NY)
Passaic: *D. Levy 958* (DUKE)
Sussex: 18185

***G. olneyi* Sullivant**

rocks near streams or lakes

Bergen: 18177

Essex: *Britton & Britton s.n.*, 28 Oct 1882 (NY)
Morris: 18405
Passaic: 20610
Sussex: 18209
Warren: *E. Buch* 6603 (NY)

G. ovalis (Hedwig) Lindberg - (not in NJ)

***G. pilifera* P. Beauvois**

on dry, often shaded, limestone, sandstone, or granite
Bergen: *D. Levy* 1986 (DUKE)
Essex: 18259
Hunterdon: *Cantlon & Moul* 6200 (CHRB)
Morris: 18249
Somerset: 18124
Sussex: 18663
Union: *Weigmann* 484 (NY)
Warren: 18148

Gymnostomum (Pottiaceae)

***G. aeruginosum* Smith**

capsules: summer-fall
wet, calcareous rock, especially near falls
Hunterson: *Best s.n.*, 10 Oct 1892 (NY)

Hageniella (Sematophyllaceae)

***H. micans* (Mitten) B. C. Tan & Y. Jia** (formerly *Hygrohypnum micans*)

on rocks near streams
Bergen: *Austin s.n.* [*Musci App.* 440] (BKL, NY)

Hamatocaulis (Calliergonaceae)

***H. vernicosus* (Mitten) Hedenäs**

lake shores and other moist habitats
Bergen: *Austin s.n.*, Aug 1874 (NY)
Morris: *Austin s.n.*, [*Musci App.* 402b] (NY)

Haplohymenium (Anomodontaceae)

***H. triste* (Cesati) Kindberg** (see *Anomodon tristis*)

Hedwigia (Hedwigiaceae)

***H. ciliata* (Hedwig) P. Beauvois**

capsules: spring
on exposed rocks
Bergen: 24801
Essex: *E. Britton & Britton s.n.*, 28 Oct 1882 (NY)
Hudson: *Austin s.n., s.d.* (NY)

Hunterdon: 22177
Morris: 18504
Passaic: 18171
Somerset: 18123
Sussex: 18191
Union: *Wiegmann 482* (BKL, NY)
Warren: 18294

Helodium (Helodiaceae)

***H. blandowii* (F. Weber & D. Mohr) Warnstorff** - ours are variety *elodioides* (Renauld & Cardot) Crum *et al.*

hardwood swamps

Bergen: *D. Levy 2056* (DUKE)
Hunterdon: *Tan 89-1525* (NY)
Morris: 22609
Warren: 20961

***H. paludosum* (Sullivant) Austin**

Burlington: 12386
Middlesex: *Beals s.n.*, 22 Mar 1919 (DUKE)

Herzogiella (Hypnaceae)

***H. striatella* (Bridel) Iwatsuki**

capsules: summer

on acid rocks or soil in shade

Bergen: Barringer s.n., 22 Apr 2004 (BKL)
Hudson: *Austin 2* (NY)
Hunterdon: 22179
Monmouth: *E. Britton s.n.*, 15 May 1910 (NY)
Morris: 11936
Passaic: 24819
Warren: 22719

***H. turfacea* (Lindberg) Iwatsuki**

capsules: summer

coniferous woods and swamps

Bergen: *Austin 574* (NY)
Burlington: *Best s.n.*, 28 May 1892 (NY)
Hudson: *Austin 852* (NY)
Hunterdon: *Best s.n.*, 1890 (NY)
Morris: *Austin s.n.*, Jun 1868 (NY)
Sussex: *Wiegmann 819a* (BKL, NY)

Homalia (Neckeraceae)

***H. trichomanoides* (Hedwig) Schimper** -not in NJ, but in PA and NY
on limestone cliffs and boulders

Homalotheciella (Brachytheciaceae)

***H. subcapillata* (Hedwig) Brotherus**

Bergen: *Austin s.n.*, Apr 1871 (NY)

Hunterdon: *Best s.n., s.d.* (NY)

Ocean: *Clarke s.n.*, Spring 1888 (NY)

Homomallium (Hypnaceae)

***H. adnatum* (Hedwig) Brotherus**

on limestone and traprock

Bergen: *Chamberlain & Beals s.n.*, 2 Jun 1918 (NY)

Hudson: *Austin 621* (NY)

Hunterdon: *Buck 22228* (NY)

Middlesex: *21773*

Morris: *18576*

Passaic: *23641*

Somerset: *Wiegmann s.n.*, 30 May 1916 (NY)

Sussex: *6119*

Warren: *18154*

Hygroamblystegium (Amblystegiaceae)

H. fluviatile (Hedwig) Loeske -see *H. varium*

H. tenax (Hedwig) Jennings -see *H. varium*

***H. varium* (Hedwig) Mönkemeyer**

on wet rocks in and around streams

Bergen: *M. Martin s.n.*, 18 Jun 1961 (NY)

Burlington: *12395*

Camden: *C. Darigo & D. Darigo 4443* (MO)

Essex: *Wiegmann 982* (NY)

Hunterdon: *25102*

Mercer: *9354*

Middlesex: *s.l. s.n.*, 18 Jun 1896 (NY)

Monmouth: *9235*

Morris: *22226*

Passaic: *Nash s.n.*, 15 Apr 1891 (NY)

Somerset: *18684*

Sussex: *Wiegmann 157* (NY)

Union: *13777*

Warren: *24837*

Hygrohypnum (Amblystegiaceae)

***H. closteri* (Austin) Grout**

on rocks in streams

Bergen: *Austin s.n.*, [*Musci App.* 439] (BKL, NY)

***H. duriusculum* (DeNotaris) D. W. Jameson** - not in NJ *fide* FNA

on wet rocks in streams

Essex: *Wiegmann 757* (NY)

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

***H. eugyrium* (Schimper) Loeske** - not in NJ *fide* FNA

on wet rocks along streams

Passaic: *Austin s.n.*, Nov 1866 (NY)

Warren: *21827*

***H. luridum* (Hedwig) Jennings**

on limestone rocks in and along streams

Sussex: *23315*

***H. micans* (Mitten) Brotherus** -see *Hageniella micans*

***H. molle* (Hedwig) Loeske** -ours are *H. duriusculum*

***H. ochraceum* (Wilson) Loeske**

on wet rocks in rapid streams and waterfalls, acidophile

Hunterdon: *Best s.n.*, 1894 (NY)

Hylocomiastrum (Hylocomiaceae)

***H. umbratum* (Hedwig) Brotherus** - not in NJ

in cool, moist forest, especially spruce forest

Hylocomium (Hylocomiaceae)

***H. splendens* (Hedwig) Schimper**

capsules: spring

forming carpets on rotting wood, rocks, or soil in moist forest

Hunterdon: *Best s.n.*, 23 Nov 1895 (NY)

Sussex: *21994*

Hymenostylium (Pottiaceae)

***H. recurvirostrum* (Hedwig) Dixon**

capsules: late summer - fall

moist calcareous rocks

Bergen: *Austin s.n.* [*Musci App.* 61] (BKL, NY)

Hyophila (Pottiaceae)

***H. involuta* (Hooker) A. Jaeger**

crumbling or loose rocks, especially near streams

Bergen: *Austin s.n.*, Oct 1869 (NY)

Passaic: *Austin s.n.*, Apr 1867 (NY)

Sussex: *Bartram & Chamberlain 6291* (NY)

Hypnum (Hypnaceae)

***H. cupressiforme* Hedwig**

capsules: fall – early winter

on vertical surfaces of rocks, trees, and on soil
Bergen: *Rau s.n.*, 1875 (NY)
Hudson: *Torrey s.n.*, 1866 (NY)
Hunterdon: *Best s.n.*, 16 Dec 1891 (NY)
Sussex: *Austin 663* (NY)

H. cupressiforme var. *resupinatum* (Taylor) Schimper

***H. curvifolium* Hedwig**

capsules: spring
on soil and rotting wood in wet woods and swamps
Bergen: *Austin s.n.*, 28 Nov 1868 (NY)
Burlington: *James s.n.*, Jun 1851 (NY)
Hudson: *Torrey s.n.*, s.d. (NY)
Hunterdon: *Best s.n.*, Mar 1894 (NY)
Passaic: *12492*
Sussex: *20344*
Warren: *22692*

***H. imponens* Hedwig**

on tops of rotting logs
Burlington: *B. Allen 16874* (MO)
Camden: *20827*
Hunterdon: *Buck 22245* (NY)
Middlesex: *21815*
Morris: *24792*
Passaic: *20489*
Sussex: *16379*
Warren: *25046*

***H. lindbergii* Mitten**

capsules: summer
on wet soil and rotting wood in swamps
Burlington: *12680*
Hunterdon: *Buck 22221* (NY)
Morris: *18503*
Ocean: *13628*
Passaic: *20515*
Sussex: *14217*
Warren: *25055*

***H. pallescens* (Hedwig) P. Beauvois**

capsules: summer
at the base of trees in the woods
Bergen: *Austin s.n.*, s.d. (NY)
Burlington: *12388*
Hunterdon: *Best s.n.*, 13 Oct 1893 (NY)
Passaic: *24931*
Sussex: *23090*

Warren: *Buser 12052* (NY)

***H. pratense* (Rabenhorst) W. Koch** - some may be *H. lindbergii*

capsules: spring

rich fens and limestone swamps

Bergen: *M. Martin s.n.*, 30 Jul 1961 (NY)

Hudson: *Austin s.n.*, [*Musci App.* 426] (BKL, NY)

Sussex: *24680*

Warren *25052*

Imbribryum (Bryaceae)

***I. muehlenbeckii* (Bruch & Schimper) J. R. Spence** - formerly *Bryum muehlenbeckii*

on wet rocks near streams

Bergen: *Beals 2448x* (DUKE, NY)

Isopterygiopsis (Hypnaceae)

***I. muelleriana* (Schimper) Iwatsuki**

crevices in cliffs on acidic rocks also soil and tree bases

Bergen: *Austin s.n.*, Apr 1872 (NY)

Sussex: *Austin s.n.*, 1867 (NY)

***I. pulchella* (Hedwig) Iwatsuki**

on damp substrates on cliffs and outcrops in deep shade under overhangs
calciphile?

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

Isopterygium (Pylaisiadelphaceae)

***I. tenerum* (Swartz) Mitten**

on logs and stumps and on bark or soil near base of trees, often in sandy, dry soils

Burlington: *James s.n.*, Sep 1865 (NY)

Monmouth: *Wiekert s.n.*, Jul 1941 (NY)

Ocean: *W. Maas s.n.*, 26 Sep 1966 (NY)

Leptobryum (Meesiaceae)

***L. pyriforme* (Hedwig) Wilson**

on soil or rotting wood in swamps or wet disturbed places, weedy in greenhouses

Bergen: *D. Levy s.n.*, 25 Jun 1916 (DUKE)

Hudson: *Austin s.n.*, May 1866 (NY)

Hunterdon: *Best s.n.*, 10 Jun 1893 (NY)

Mercer: *Torrey s.n.*, s.d. (NY)

Monmouth: *D. Levy 2121* (DUKE)

Morris: *18571*

Leptodictyum (Amblystegiaceae)

***L. humile* (P. Beauvois) Ochyra** - see *Hygroamblystegium tenax*

***L. riparium* (Hedwig) Warnstorf**

capsule: sporadic, all year

on soil and litter in swamps

Bergen: 11528

Cumberland: *S. Field s.n.* 29 Jan 1990 (MO)

Hunterdon: *Buck 22189* (NY)

Middlesex: *Vail s.n.*, 22 Jun 1896 (NY)

Morris: 22229

Passaic: *E. Britton 31* (NY)

Somerset: *Austin s.n.*, Jul 1867 (NY)

Sussex: 23862

Warren: 25048

***Leskea* (Leskeaceae)**

***L. gracilescens* Hedwig**

capsules can be found all year

tree bases esp. red cedar and, rarely, on wood shingles

Bergen: *Austin 531* (NY)

Hunterdon: *Best s.n.*, 25 Aug 1899 (NY)

Mercer: *C. Darigo & D. Darigo 4420* (MO)

Somerset: *Moul 7545* (CHRB, NY)

Sussex: 21101

Warren: 19193

***L. obscura* Hedwig**

capsules: Mar-Nov

tree bases and fallen logs

Bergen: *Wiegmann 454* (BKL, NY)

Essex: *Austin s.n.*, Apr 1867 (NY)

Hudson: *Austin s.n.*, 26 Apr 1866 (NY)

Hunterdon: *Buck 22206* (NY)

Morris: *Wiegmann s.n.*, 17 May 1914 (NY)

Sussex: *Wiegmann s.n.*, 19 Jun 1916 (NY)

Warren: 19196

***L. polycarpa* Hedwig**

capsules: Mar-Nov

tree bases, usually near streams, and, rarely, on roofs

Bergen: *Roche s.n.* (NY)

Hunterdon: *Best s.n.*, 28 May 1892 (NY)

Middlesex: *Wiegmann 12* (BKL, NY)

Union: 20084

***Leskeella* (Leskeaceae)**

***L. nervosa* (Bridel) Loeske**

on trees or brush in moist, shaded sites
Union: *Schwienitz s.n.*, s.d. (PH)
Sussex: 21102
Warren: *Beals s.n.*, 23 Sep 1938 (NY)

Leucobryum (Leucobryaceae)

***L. albidum* (Bridel) Lindberg**

capsules: Aug-Jan
on soil and rotting wood
Burlington: *Zanoni 4867* (NY)
Camden: *Green s.n.*, 1882 (NY)

***L. glaucum* (Hedwig) Ångström**

capsules: Aug-Dec
on soil or rotting wood in rocky slope woods, often open woods
Atlantic: *Allen s.n.*, 21 Aug 1879 (NY)
Bergen: 24805
Burlington: *B. Allen 16888* (MO)
Camden: *James s.n.*, Dec 1848 (NY)
Cape May: *Moul 6161* (CHRB, NY)
Cumberland: *Wherry s.n.*, 28 Oct 1934 (MO, PH)
Essex: *E. Britton s.n.*, 28 Oct 1882 (NY)
Gloucester: *Long 1655* (MO, PH)
Hunterdon: *Buck 22231* (NY)
Middlesex: *E. Britton & Britton s.n.*, 14 Sep 1883 (NY)
Monmouth: *Clarke s.n.*, Oct 1901 (NY)
Passaic: 18079
Sussex: 18091
Warren: 25070

Leucodon (Leucodontaceae)

***L. brachypus* Bridel**

capsules: Nov-Jun
on tree trunks and fallen logs, in upland forests
Bergen: *Austin 260* (MO, NY)
Hunterdon: *Best s.n.*, 20 Oct 1899 (NY)

***L. julaceus* (Hedwig) Sullivant**

capsules: Oct-Jun
on tree trunks and fallen logs
Atlantic: *Long 1349* (DUKE)
Bergen: *Austin 71B* (NY)
Burlington: *Beals s.n.*, 18 Dec 1938 (NY)
Camden: *James s.n.*, Mar 1851 (NY)
Hunterdon: 22181

Limprichtia (Amblystegiaceae)

L. revolvens (Swartz) Loeske - ours are *Scorpidium cossonii*

Lindbergia (Leskeaceae)

L. brachyptera (Mitten) Kindberg

capsules: Mar-Dec

tree trunks, especially roadside maples and elms

Bergen: *Austin s.n.*, 26 Jun 1865 (NY)

Hunterdon: *Best s.n.*, 9 Oct 1898 (NY)

Sussex: *Austin s.n.*, Nov 1875 (NY)

Loeskeobryum (Hylocomiaceae)

L. brevirostre (Bridel) Brotherus

rotting logs, soil, and rocks in moist forest, especially hemlock coves

Bergen: *Austin s.n.*, 1868 (NY)

Hunterdon: *Best s.n.*, 13 Sep 1895 (NY)

Passaic: *Austin 296* (NY)

Sussex: *Austin s.n.*, Sep 1867 (NY)

Meesia (Meesiaceae)

M. triquetra (Jolyclerc) Ångström

on wet soil in marly bogs or limestone swamps

Bergen: *Austin s.n.*, 1868 (NY)

Micromitrium (Pottiaceae)

M. austinii Sullivant - see *M. tenerum*

M. megalosporum Austin

capsules: summer-winter

bare, infertile soil or lawns

Burlington: *Buck 28284* (NY)

M. synoicum (James) Austin

capsules: summer-winter

drying or dry pond edges or streamsides, rarely on soil in open woods

Bergen: *Austin s.n.*, 1865 (NY)

Camden: *James s.n.*, Oct 1868 (MO, NY)

Gloucester: *Kaiser s.n.*, 17 Oct 1914 (NY)

M. tenerum (Bruch & Schimper) Crosby (formerly *M. austinii*)

capsules: summer-spring

bare soil in old fields, drying ponds, streambanks

Bergen: *Austin, s.n.*, Oct 1865 (NY)

Burlington: *L. Anderson 27367* (DUKE)

Ocean: *B. Allen 16894* (MO)

Mnium (Mniaceae)

M. ambiguum H. Müller - see *M. lycopodioides*

M. hornum Hedwig

capsules: summer

I. on wet soil and rocks

1. Bergen: *Austin s.n.*, Jul 1869 (NY)

Burlington: *James s.n.*, 1855 (NY)

Camden: *James s.n.*, May 1853 (NY)

Essex: *Wiegmann s.n.*, 3 Nov 1914 (NY)

Hudson: *Austin 374 [Musci App. 211]*(BKL, NY)

Monmouth: *E. Britton s.n.*, 15 May 1910 (NY)

Morris: *Henley s.n.*, Aug 1936 (NY)

Ocean: *Austin s.n.*, 1869 (NY)

Passaic: 18175

Sussex: 18611

M. lycopodioides Schwägrichen - formerly *M. ambiguum*

on damp, shaded soil or rock, esp. shaded cliffs

Bergen: *Austin s.n.*, Jul 1869 (NY)

Burlington: *Austin s.n.* (NY)

Morris: *Austin s.n.*, Nov 1866 (NY)

Sussex: s.l. s.n., 4 Jun 1868 (NY)

M. marginatum (Withering) Bridel

on soil in moist, shaded sites esp. near streams

Bergen: *Austin s.n.*, Jul 1867 (NY)

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

Ocean: *Wiekert 2* (NY)

Passaic: 20542

Sussex: *Wiegmann s.n.*, 19 Jun 1916 (NY)

M. spinulosum Bruch & Schimper

on various substrates in conifer woods and swamps

Passaic: 24902

M. stellare Hedwig

on moist soil

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

Warren: 11288

Myurella (Pterigynandraceae)

M. julacea (Schwägrichen) Schimper

in crevices of limestone cliffs

Warren: *Austin s.n.*, 7 Oct 1871 (NY)

M. sibirica (Müll. Hal.) Reimers

in shaded crevices of limestone cliffs

Bergen: *Austin s.n.*, Nov 1868 (NY)

Sussex: *Bartram 1008* (MO, NY)

Warren: *Cowan & Wurdack 182* (NY)

Neckera (Neckeraceae)

***N. pennata* Hedwig**

on trees or rocks in moist, coniferous woods

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

Mercer: *Biddlecome s.n.*, 1 Jun 1875 (NY)

Passaic: *L. Robinson s.n.*, 14 May 1938 (NY)

Sussex: *s.l. s.n.*, Nov 1875 (NY)

Oncophorus (Rhabdoweisiaceae)

***O. virens* (Hedwig) Bridel - fide FNA**

capsules: late spring-summer

along streams on rocks, soil, or rotting wood

***O. wahlenbergii* Bridel - fide FNA**

capsules: late spring-summer

rotting logs along streams

Orthotrichum (Orthotrichaceae)

***O. anomalum* Hedwig**- not listed for NJ in FNA

on mortar and old concrete, dry limestone, rarely on tree bases

Morris: *B. Allen 14565* (MO)

Passaic: *20604*

Sussex: *20560*

Warren: *C. Darigo & D. Darigo 3525* (MO)

***O. elegans* Hooker & Greville** - formerly *O. speciosum* var *elegans*

on trees, especially poplars

Bergen: *Austin s.n.* [*Musci App.* 172] (BKL, NY)

***O. lescurii* Austin**

on limestone - some specimens of *O. strangulatum* will go here

Bergen: *Austin s.n.*, Dec 1867 (MO, NY)

Essex: *Austin s.n.*, Jun 1867 (NY)

Hunterdon: *Best s.n.*, 19 Apr 1889 (NY)

Sussex: *Austin s.n.*, 30 Apr 1868 (MO, NY)

***O. obtusifolium* Bridel**

on old concrete, usually on trees, especially poplars

Warren: *C. Darigo 3525a* (MO)

***O. ohioense* Sullivant & Lesquereux**

on bark of fallen trees or live trees along streams

Bergen: *18180*

Camden: *Long 1583* (DUKE)

Essex: *Austin s.n.*, 1867 (NY)

Gloucester: *s.l. s.n.*, 10 May 1890 (NY)

Hudson: *Austin s.n.*, 13 Apr 1865 (NY)

Hunterdon: *Best s.n.*, 20 Apr 1894 (NY)
Morris: 20556
Passaic: 20546
Sussex: 20327
Union: 20536
Warren: 22718

***O. pumilum* Swartz**

on bark of ash and elm, or other deciduous trees, especially along roadsides

Bergen: 18180
Camden: *James s.n.*, Apr 1839 (NY)
Cumberland: *Matzke s.n.*, 2 Jul 1934 (NY)
Essex: *Austin s.n.*, May 1867 (NY)
Hudson: *Austin s.n.*, 1868 (NY)
Hunterdon: *Best s.n.*, 15 Mar 1894 (NY)
Mercer: *Parke (Best) s.n.*, 20 Mar 1895 (NY)
Morris: *B. Allen 14566* (MO)
Passaic: 20608
Sussex: 20567
Warren: 18158

***O. pusillum* Mitten**

on deciduous trees, especially along streams or roads

Bergen: *Austin 373* (NY)
Burlington: *Koster 329* (NY)
Camden: 20847
Essex: *Austin s.n.*, May 1867 (NY)
Hunterdon: *Pursell 5-NJ-55* (MO)
Passaic: *Sanail s.n.*, 8 May 1897 (NY)

***O. sordidum* Sullivant & Lesquereux**

on tree bark, occasionally on limestone

Hunterdon: *Buck 22247* (NY)
Sussex: *E. Britton s.n.*, 10 Sep 1887 (NY)

O. speciosum var. *elegans* (Schwägrichen) Warnstorf - see *O. elegans*

***O. stellatum* Bridel**

on bark of trees in moist forests and along streams

Bergen: 18253
Burlington: *Koster s.n.*, 19 May 1940 (MO, NY)
Essex: 18258
Hunterdon: *Best s.n.*, 18 May 1894 (NY)
Ocean: *Britton s.n.*, 29 Apr 1889 (NY)
Passaic: *s.l. s.n.*, 23 Sep 1886 (NY)
Somerset: *s.l. s.n.*, 28 Sep 1886 (NY)
Sussex: 24699

***O. strangulatum* P. Beauvois**

dry, exposed, calcareous rocks and concrete

Bergen: 18253
Essex: 18258
Hudson: *Austin s.n.*, 27 Nov 1865 (NY)
Hunterdon: *Cantlon 324* (CHRB)
Morris: 18240
Passaic: *Austin s.n.*, Jun 1867 (NY)
Sussex: 18093
Warren: 18145

Oxystegus (Pottiaceae)

O. tenuirostris (Hooker & Taylor) A.J.E. Smith - see *Trichostomum tenuirostris*

Paraleucobryum (Dicranaceae)

P. longifolium (Ehrhart) Loeske

capsules: summer
on soil over rocks, outcrops, and cliffs
without locality: *Austin s.n.* [*Musci App. 84*] (BKL, NY)

Phascum (Pottiaceae)

P. cuspidatum Hedwig - see *Tortula acaulon*

Philonotis (Bartramiaceae)

P. fontana (Hedwig) Bridel

capsules: year-round
on rocks or soil in wet places and seeps
Bergen: *Austin s.n.*, 1865 (NY)
Hunterdon: *Moul 7822* (NY)
Middlesex: *Wiegmann 48* (NY)
Monmouth: 22814
Passaic: *W. Barbour s.n.*, 12 Oct 1916 (NY)
Sussex: 22685

P. fontana var. *caespitosa* (Juratska) Schimper - see *P. fontana*

P. marchica (Hedwig) Bridel - not listed for NJ in FNA

capsules: Mar - Sep
on rocks and soil in wet places, springs, roadsides
Bergen: *Austin s.n.*, *s.d.* (NY)

P. muhlenbergii (Schwägrischen) Bridel - see *P. marchica*

Physcomitrium (Funariaceae)

P. immersum Sullivant

capsules: late fall to spring
wet, disturbed soil
Camden: *Austin s.n.*, Nov 1864 (NY)

P. pyriforme (Hedwig) Hampe

capsules: late fall-Spring
wet, disturbed soil

Bergen: *Wiegmann s.n.*, May 1914 (NY)
Camden: *James s.n.*, Apr 1864 (NY)
Cumberland: *Long 1778* (NY, PH)
Gloucester: *Lippincott s.n.*, *s.d.* (DUKE)
Hudson: 11491
Hunterdon: 20800
Mercer: *s.l. 5*, 12 May 1919 (NY)
Monmouth: 22432
Morris: *E. Britton s.n.*, 6 May 1882 (NY)
Passaic: *D. Levy 1241* (DUKE)
Sussex: 23320
Warren: 11674

***Plagiomnium* (Mniaceae)**

***P. affine* (Blandow) T. Koponen** - ours are *P. cuspidatum*?

on wet soil and rotting wood in swamps and wet thickets

Cumberland: *Long 2134* (NY, PH)
Hunterdon: *Miller s.n.*, 28 May 1916 (NY)
Morris: *Henley s.n.*, Jul 1938 (NY)

***P. ciliare* (Müll. Hal.) T. Koponen**

Bergen: *Wurdack & Cowan 16* (NY)
Burlington: 20695
Hudson: *s.l. s.n.*, May 1842 (NY)
Hunterdon: *Tan 89-1549* (NY)
Morris: *Nash s.n.*, 30 May 1890 (NY)
Passaic: 20601
Sussex: 20325

***P. cuspidatum* (Hedwig) T. Koponen**

capsules: spring and early summer

on soil and rotting wood in moist woods

Bergen: 11559
Burlington: *Majestyk & Amtoft 2428* (NY)
Camden: 20828
Hudson: *s.l. s.n.*, 2 Oct 1889 (NY)
Hunterdon: 20751b
Mercer: 13743
Middlesex: *Wiegmann s.n.*, 2 May 1915 (NY)
Monmouth: *Weikert s.n.*, Jul 1941 (NY)
Morris: 16045
Ocean: 20002
Passaic: 11815
Somerset: *Collins & Moul 7549* (CHRB, NY)

Sussex: 14007

Warren: 18317

***P. ellipticum* (Bridel) T. Koponen**

Hunterdon: *Buck 22202* (NY)

Sussex: 7649

***P. medium* (Bruch & Schimper) T. Koponen**

on various substrates in moist, coniferous woods

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

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

Hunterdon: *Best s.n.*, 20 Mar 1891 (NY)

Passaic: *Austin s.n.*, Apr 1867 (NY)

***P. rostratum* (Schrader) T. Koponen**

on damp, shaded rocks and soil

Hunterdon: *Best s.n.*, 25 May 1891 (NY)

Passaic: *Austin s.n.*, Jun 1867 (NY)

Sussex: *s.l. s.n.*, Jun 1868 (NY)

***Plagiopus* (Bartramiaceae)**

***P. oederiana* (Swartz) Crum & Anderson**

capsules: Jun-Sep

wet soil and rocks on seeps and wet cliffs

Hunterdon: *Best s.n.*, 31 Apr 1891 (NY)

***Plagiothecium* (Plagiotheciaceae)**

***P. cavifolium* (Bridel) Iwatsuki**

capsules: summer

on shaded soil over rocks and stumps

Bergen: *D. Levy 1899* (DUKE)

Cumberland: *Long 1035* (NY)

Essex: *R. Miller 1277* (NY)

Hunterdon: *Buck 22193* (NY)

Passaic: 20641

Salem: *Long 961* (NY)

Somerset: *Austin 849* (NY)

Sussex: 6415

***P. denticulatum* (Hedwig) Schimper**

capsules: summer

on rotting wood and tree bases in woods

Bergen: *Austin 354* (NY)

Gloucester: *Long 1624* (NY, PH)

Hunterdon: *Buck 22249* (NY)

Middlesex: *Wiegmann 160* (BKL, NY)

Morris: *R. Miller 1371* (NY)

Ocean: *Drushel 7408* (DUKE)

Passaic: *Gilly s.n.* (NY)
Sussex: *Wiegmann 161* (BKL, NY)
Union: *Wiegmann 159* (BKL, NY)

***P. laetum* Schimper**

capsules: summer
rotting wood in coniferous woods
Bergen: 20277
Sussex: 6464

***P. latebricola* Schimper**

capsules: summer
on rotting wood and tree bases in swamps
Bergen: *Wiegmann 181* (BKL, NY)
Hudson: *Austin s.n.* (NY)
Ocean: 13627
Union: *Wiegmann 100* (BKL, NY)

***Platydictya* (Hypnaceae)**

***P. confervoides* (Bridel) H. A. Crum**

moist, shaded limestone rocks
Sussex: *Wiegmann 876* (NY)
Warren: 25127

***P. jungermannioides* (Bridel) H. A. Crum**

damp, shaded limestone cliffs and ledges
Warren: *Buck 21607* (NY)

***P. minutissima* (Sullivant & Lesquereux) H. A. Crum**

moist, shaded limestone or sandstone
without specific locality: *Austin s.n.* [*Musci App 343*] (BKL, NY)

***P. subtilis* (Hedwig) H. A. Crum**

on tree bases and rotting wood
Passaic: 20523
Sussex: 18089

***Platygyrium* (Pylaisiadelphaceae)**

***P. repens* (Bridel) Schimper**

capsules: Aug-Jun
on rotting wood in shaded woods
Atlantic: *S. Field s.n.*, 24 Feb 1990 (MO)
Bergen: 20268
Burlington: *Majestyk 2420* (NY)
Cumberland: *S. Field s.n.*, 27 Feb 1990 (MO)
Hunterdon: *Tan 89-1540* (NY)
Mercer: *Best s.n.*, 20 Nov 1890
Passaic: 24713

Sussex: 24692

Platyhypnidium (Brachytheciaceae)

***P. riparioides* (Hedwig) Dix**

on wet rocks, in or along swiftly moving streams and falls, calciphile?

Bergen: *Beals s.n.*, 1 Oct 1938 (MO, NY)

Hunterdon: 25097

Mercer: *Best s.n.*, 14 Sep 1895 (NY)

Morris: *Henley s.n.* (NY)

Sussex: *Buser 12029* (NY)

Warren: 21826

Platylomella (Leskeaceae)

***P. lescurii* (Sullivant) Andrews**

capsules: spring and early summer (May-June)

wet wood, rocks, and roots near streams, especially in splash zone

Bergen: *D. Levy s.n.*, 21 Jul 1928 (NY)

Pleuridium (Ditrichaceae)

***P. acuminatum* Lindberg** - not reported but probably here

on soil, often sandy, in open, disturbed sites, old fields, roadsides, along railroads

***P. palustre* (Bruch & Schimp.) Bruch & Schimper** - (see *Cleistocarpidium palustre*)

***P. ravenelii* Austin**

capsules: May-Jun

bare, sandy soil in scrub oak thickets

Burlington: *Koster B28* (CHRB, NY)

***P. subulatum* (Hedwig) Rabenhorst**

on wet, sandy soil along roadsides and in ditches

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

Hunterdon: 20798

Mercer: *P. Bryan s.n.*, Apr 1954 (DUKE)

Middlesex: *E. Britton s.n.*, 19 Apr 1884 (NY)

Passaic: *Beals s.n.*, 1 Jun 1916 (DUKE)

***P. sullivanii* Austin** - *fide* FNA

on moist sandy soil in disturbed sites, roadsides

Pleurozium (Hylocomiaceae)

***P. schreberi* (Bridel) Mitten**

capsules: fall

on soil in cool woods and fens

Bergen: *Austin s.n.*, 1866 (NY)

Hunterdon: *Best s.n.*, 19 Oct 1890 (NY)

Monmouth: *J. K. Small s.n.*, Apr 1894 (NY)

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

Passaic: 24951

Sussex: 23854

Pogonatum (Polytrichaceae)

***P. brachyphyllum* (Michaux) P. Beauvois**

streambanks on exposed, sandy or clayey soil

Camden: *Green 26* (NY)

Cape May: *W. Taylor s.n.*, 18 Apr 1922 (DUKE)

Gloucester: *James s.n.*, Dec 1850 (MO, NY)

Ocean: *Austin s.n.* [*Musci App.* 234] (BKL, NY)

***P. pensilvanicum* (Hedwig) P. Beauvois**

disturbed soil banks, especially streambanks

Bergen: *Rogerson s.n.*, 10 Oct 1959 (NY)

Essex: *Wiegmann 983* (NY)

Hunterdon: *Buck 22204* (NY)

Monmouth: *Haynes s.n.*, 6 Jun 1902 (NY)

Morris: *Moul 8574* (NY)

Passaic: 24705

Somerset: 22206

Sussex: *Kish 175* (NY)

Warren: *Henley s.n.*, Jul 1940 (NY)

Pohlia (Mniaceae)

***P. annotina* (Hedwig) Lindberg**

capsules: summer

on soil in moist, open sites

Burlington: *Buck 28289* (NY)

Morris: *D. Levy s.n.*, 25 Jun 1916 (DUKE)

***P. cruda* (Hedwig) Lindberg**

capsules: summer

on soil in moist, shaded sites, under overhangs, calciphile

Bergen: *Austin s.n.* [*Musci App.* 187] (BKL, NY)

Passaic: *Austin s.n.*, *s.d.* (NY)

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

P. elongata Hedwig - not in NJ *fide* FNA

***P. lescuriana* (Sullivant) Grout** - *fide* FNA

capsules: spring

moist roadbanks, streambanks, ditches

P. melanodon (Bridel) A. J. Shaw - not in NJ *fide* FNA

***P. nutans* (Hedwig) Lindberg**

capsules: spring - early summer

on various wet or very moist substrates

Bergen: 24808

Burlington: *Benner 7526* (NY)

Essex: *Austin s.n., s.d.* (NY)
Hunterdon: *Best s.n.*, 28 May 1891 (NY)
Mercer: *Best s.n.*, 2 May 1890 (NY)
Middlesex: *Moul 7944* (CHRB, NY)
Morris: 24768
Ocean: *Long 2225* (NY)
Passaic: 24818
Somerset: *Moldenke s.n.*, 31 May 1931 (NY)
Sussex: 7683
Warren: 24827

***P. proligera* (Kindberg) Lindberg** - Not in NJ *fide* FNA

capsules: summer
moist roadbanks, crevices in cliffs

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

***P. wahlenbergii* (F. Weber & D. Mohr) Andrews**

capsules: spring
streambanks, ditches, around springs

Bergen: *L. Robinson s.n.*, 14 May 1938 (NY)

Mercer: *M. Anderson 124* (NY)

Monmouth: *E. Britton s.n.*, 2 Oct 1886 (NY)

Passaic: 18078

***Polytrichum* (Polytrichaceae)**

***P. commune* Hedwig**

on moist soil, usually in open areas

Bergen: 20250

Burlington: *Besseler s.n.*, 8 Jun 1886 (DUKE)

Cumberland: *Long s.n.*, 20 Jul 1934 (NY)

Essex: *Kish 193* (NY)

Hunterdon: *Best s.n.*, 25 Jul 1891 (NY)

Mercer: *s.l. s.n.*, 21 Jun 1885 (NY)

Middlesex: *J. Cohn s.n.*, 26 Oct 1951 (NY)

Monmouth: *S. Dubois s.n.*, 4 Oct 1984 (NY)

Morris: 18396

Ocean: *Zanoni 4854* (NY)

Passaic: 18068

Sussex: 18218

Warren: 20964

***P. commune* var. *perigoniale* (Michaux) Hampe** - see the species

***P. formosum* Hedwig** [*Polytrichastrum formosum* (Hedwig)

usually on soil in moist, coniferous forests

Bergen: *Austin s.n., s.d.* (MO, NY)

***P. juniperinum* Hedwig**

on soil in well-drained, open sites

Bergen: *Austin s.n.*, 1865 (NY)
Burlington: 20687
Cumberland: *Long 652* (NY, PH)
Essex: *Wiegmann 760* (NY)
Gloucester: *G. Kaiser s.n.*, 26 May 1910 (DUKE, MO)
Hunterdon: *Best s.n.*, 24 Jun 1890 (NY)
Mercer: *Macloskie s.n.*, *s.d.* (NY)
Middlesex: *Vail s.n.*, 9 Jul 1896 (NY)
Morris: 24784
Ocean: *Moul 2668* (NY)
Passaic: 24893
Sussex: 20562
Warren: 24737

***P. ohioense* Renaud & Cardot** [*Polytrichastrum ohioense* (Renaud & Cardot) G. L. Smith]

usually on soil in dry woods

Bergen: 20276
Burlington: *Smith 11322* (NY)
Gloucester: *Long 2128* (NY, PH)
Hunterdon: *Best s.n.*, 18 Nov 1891 (NY)
Middlesex: *Wiegmann 23* (BKL, NY)
Monmouth: *J. Cantlon s.n.* (CHRB, NY)
Morris: 17780
Ocean: 22778
Passaic: 14828
Sussex: 7660
Union: 19242
Warren: 20964

***P. pallidisetum* Funck** [*Polytrichasturm pallidisetum* (Funck) G. L. Smith]

usually on soil in coniferous, usually spruce-fir, forests

Hunterdon: *Buck 22229* (NY)
Sussex: *Rogerson s.n.*, 19 Aug 1977 (NY)

***P. piliferum* Hedwig**

on dry, sandy or gravelly soil in open sites

Bergen: *Wiegmann 996* (BKL, NY)
Burlington: 12613
Camden: *Long 1357* (DUKE)
Cumberland: *Long 1728* (NY, PH)
Middlesex: *Wiegmann 115* (BKL, NY)
Ocean: 20916
Sussex: 23496
Warren: *Rau s.n.*, Nov 1874 (NY)

***P. strictum* Bridel**

Sphagnum bogs, fens, and wet, rotting wood

Burlington: *Best s.n.*, 28 May 1892 (NY)

Monmouth: *J. K. Small s.n.*, 14 Apr 1894 (NY)
Ocean: *Moldenke 10778* (NY)

Pottia (*Pottiaceae*)

P. truncata (Hedwig) Fürnrohr - see *Tortula truncata*

Pseudobryum (*Mniaceae*)

***P. cinclidioides* (Huber) T. Koponen**

on wet soil in swamps

without locality: *Austin s.n.* [*Musci App. Suppl.* 214] (BKL, NY)

Pseudocampyllum (*Amblystegiaceae*)

***P. radicale* (P. Beauvois) Vanderpoorten & Hedenäs** - formerly *Campyllum radicale*

capsules: spring

on wet soil and decaying leaves

Bergen: *Austin s.n.*, 1872 (NY)

Hudson: *Austin s.n.* [*Musci App.* 640] (NY)

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

Sussex: 34675

Warren: 25045

Pseudotaxiphllum (*Hypnaceae*)

***P. distichaceum* (Mitten) Iwatsuki**

capsules unknown

cliffs with mica, sandstone bluffs, soil banks

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

***P. elegans* (Bridel) Iwatsuki**

capsules spring-summer

woods

Bergen: *Wiegmann s.n.*, 30 Nov 1915 (NY)

Passaic: *Austin 546b* (NY)

Sussex: *Wiegmann s.n.*, 22 Jun 1916 (NY)

Warren: *Austin s.n.* [*Musci App.* 532] (NY)

Pterigynandrum (*Pterigynandraceae*)

P. filiforme Hedwig - not in NJ *fide* FNA

capsules: rare, summer

acidic boulders and rock shelves

Ptilium (*Hypnaceae*)

***P. crista-castrensis* (Hedwig) De Notaris**

capsules: autumn

on soil and rotting wood in rich moist woods, often conifer woods

Bergen: *Austin s.n.* [*Musci App.* 434] (BKL, NY)

Passaic: 20540

Ptychomitrium (Ptychomitriaceae)

***P. incurvum* (Schwägrichen) Spruce**

capsules: winter - spring

on rocks and rarely on soil in open woods

Bergen: *Nearing s.n.*, 7 Mar 1959 (NY)

Hudson: *Austin s.n.*, 13 Apr 1865 (NY)

Hunterdon: *Best s.n.*, 13 Nov 1903 (NY)

Morris: *Britton s.n.*, 3 Mar 1882 (NY)

Passaic: *Austin s.n.*, 7 Apr 1867 (NY)

Sussex: *Best s.n.*, 27 Nov 1908 (NY)

Ptychostomum (Bryaceae)

***P. bimum* (Schreber) J. R. Spence** - formerly part of *Bryum pseudotriquetrum*

capsules: summer

on soil and rocks in wet woods

Bergen: *Austin s.n.* [*Musci App.* 201] (BKL, NY)

Hunterdon: *Best s.n.*, 23 May 1891 (NY)

Sussex: 21082

Warren: *Rau s.n.*, Nov 1874 (NY)

***P. cernuum* Hornschuch** - formerly *Bryum uliginosum*

on streambanks or, sometimes, rotting wood, calciphile?

Bergen: *Austin s.n.*, 25 Apr 1865 (NY)

***P. creberrimum* (Taylor) J. R. Spence** - formerly *Bryum lisa* var. *cuspidatum*

capsules: summer

on soil in disturbed places, esp. roadsides

Bergen: *Austin 85* (NY)

Burlington: 20903

Cumberland: *S. Field s.n.*, 11 Jan 1990 (MO)

Hunterdon: 20756

***P. cyclophyllum* (Schwägrichen) J. R. Spence** - formerly *Bryum cyclophyllum*

swamps

Bergen: *Austin s.n.* [*Musci App.* 192] (BKL, NY)

***P. pseudotriquetrum* (Hedwig) J. R. Spence** - formerly *Bryum pseudotriquetrum*

capsules: summer

on wet soil near streams, ponds, swamps

Bergen: *D. J. Levy 1880* (DUKE)

Burlington: *Majestyk & Amtoft 2419* (NY)

Hunterdon: *Long 1479* (DUKE, PH)

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

Passaic: *Nash s.n.* (NY)

Somerset: *Wiegmann 599* (BKL, NY)

Sussex: 18092

Pylaisia (Hypnaceae)

***P. intricata* (Hedwig) Schimper**

capsules: late summer - fall
on bark

Bergen: *Austin s.n.*, Sep 1866 (NY)
Burlington: *Best s.n.*, 28 May 1892 (NY)
Essex: *Austin s.n.*[*Musci App.* 294](BKL, NY)
Hunterdon: *Best s.n.*, 25 Oct 1899 (NY)
Mercer: *Cochoran s.n.*, 2 Sep 1890 (NY)
Middlesex: *Austin s.n.*, Aug 1867 (NY)
Ocean 20912
Sussex: 18088
Warren: 18156

***P. polyantha* (Hedwig) Schimper**

capsules: late summer - fall
in the crotches of trees

Bergen: *Rau s.n.*, 5 Aug 1874 (NY)
Hunterdon: *Buck* 22232 (NY)
Sussex: 18205
Warren: 25044

***P. selwynii* Kindberg**

capsules: fall
on bark

Bergen: *Wiegmann s.n.*, 7 Nov 1916 (NY)
Morris: 22664
Sussex: 21341
Warren: 20972

Pylaisiadelpha (Hypnaceae)

***P. tenuirostris* (Bruch & Schimper) Buck**

on bark at base of oaks

Bergen: *Austin s.n.* [*Musci App.* 357](BKL, NY)
Mercer: *James s.n.*, 1850 (NY)
Monmouth: *Beals s.n.*, 14 May 1933 (NY)
Morris: *B. Allen* 16247 (MO)
Sussex: *Buck* 21559 (NY)

Pylaisiella (Hypnaceae)

P. intricata (Hedwig) Grout - see *Pylaisia intricata*

P. polyantha (Hedwig) Grout - see *Pylaisia polyantha*

P. selwynii (Kindberg) Crum, et al. - see *Pylaisia selwynii*

Racomitrium (Grimmiaceae)

- R. aciculare* (Hedwig) Bridel - see *Codriophorus acicularis*
R. aduncoides Bednarek-Ochyra - see *Codriophorus aduncoides*
R. venustum Frisvoll - see *Bucklandiella venusta*)

Raiiella (Thuidiaceae)

***R. scita* (P. Beauvois) Reimers**

- capsules: fall - early winter
on bark of tree bases and on rotting wood
Bergen: *Austin s.n.* [*Musci App.* 301](BKL, MO, NY)

Rhabdoweisia (Rhabdoweisiaceae)

***R. crispata* (Dickson) Lindberg**

- capsules: summer
damp, shaded cliffs
Bergen: *Austin 378* (MO, NY)
Warren: *Austin s.n.*, Oct 1867 (NY)

Rhizomnium (Mniaceae)

***R. appalachianum* T. Koponen**

- Bergen: *Austin s.n.*, 1867 (NY)

***R. magnifolium* (Horik.) T. Koponen** - *fide* FNA

***R. punctatum* (Hedwig) T. Koponen**

- capsules: late winter - spring
swampy woods, esp. near streams
Bergen: *Weigmann 455* (NY)
Essex: *Wiegmann s.n.*, 3 Nov 1916 (NY)
Hunterdon: *25110*
Passaic: *20477*
Sussex: *Nash s.n.*, 4 Jul 1909 (NY)
Warren: *25157*

Rhodobryum (Bryaceae)

***R. ontariense* (Kindberg) Kindberg.**

- capsules: uncommon, late winter to late Fall (Feb-Nov)
rich, moist woods, often in limestone regions
Bergen: *Austin s.n.*, 1865 (NY)
Hunterdon: *Buck 22182* (NY)
Morris: *D. Levy 1008* (DUKE)
Salem: *Long 1592* (DUKE)
Sussex: *18042*
Union: *Wiegmann s.n.*, 15 Aug 1915 (NY)
Warren: *25068*

Rhynchostegium (Brachytheciaceae)

***R. aquaticum* A. Jaeger** - *fide* FNA

capsules: fall

on limestone in creeks and on seepy cliffs

Bergen: *Beals s.n.*, Oct 1938 (DUKE)

***R. serrulatum* (Hedwig) A. Jaeger** - formerly *Steerecleus serrulatus*

capsules: fall

on soil or rotting wood in moist to dry woods

Bergen: *Grout s.n.*, 6 Jan 1909

Burlington: *J. Allen s.n.*, 22 Aug 1879 (NY)

Cumberland: *S. Field s.n.* 12 Jan 1990 (MO)

Gloucester: *Long 2091* (NY)

Hudson: *Austin s.n.*, Sep 1867 (NY)

Hunterdon: *Tan 89-1529* (NY)

Mercer: *Best s.n.*, 14 Sep 1895 (DUKE)

Monmouth: *J. K. Small W-13* (MO)

Morris: *D. Levy s.n.*, 27 Aug 1916 (DUKE)

Salem: *Long 1635* (NY)

Sussex: *E. Britton s.n.*, 11 Sep 1887 (NY)

Warren: 11289

Rhytidiadelphus (Hylocomiaceae)

***R. triquetrus* (Hedwig) Warnstorf**

capsules: late winter - early spring

on soil in forests, especially coniferous forests

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

Hunterdon: *Best s.n.*, 1890 (NY)

Ocean: *J. K. Small s.n.*, 14 Apr 1894 (NY)

Sussex: 23864

Rhytidium (Rhytidiaceae)

***R. rugosum* (Hedwig) Kindberg**

capsules: summer

on limestone rocks and ledges

Bergen: *Austin 86* (NY)

Rosulabryum (Bryaceae)

***R. capillare* (Hedwig) J. R. Spence** - formerly *Bryum capillare*

capsules: summer

on soil in disturbed sites or in the crotches of trees

Bergen: *Austin s.n.* Jun 1865 (NY)

Essex: Wiegmann 185 (BKL, NY)

Saelania (Ditrichaceae)

***S. glaucescens* (Hedwig) Brotherus**

capsules: summer - fall
steep roadbanks and on soil in steep rock outcrops and cliffs
Passaic: *Austin s.n.* [*Musci App.* 121] (BKL, NY)

Sanionia (Amblystegiaceae)

***S. uncinata* (Hedwig) Loeske** - not in NJ *fide* FNA
on various substrates in coniferous woods
Bergen: *Austin s.n., s.d.* (MO)

Schistidium (Grimmiaceae)

***S. agassizii* Sullivant & Lesquereux**
capsules: late spring- summer
on rocks near water

***S. apocarpum* (Hedwig) Bruch & Schimper** - some specimens placed here will be transferred
to other species after further study

capsules: late spring-summer
shaded rocks

Bergen: *D. Levy 1980* (DUKE)
Burlington: *Majestyk & Amtoft 2436* (NY)
Cumberland: *S. Field s.n.* 11 Jan 1990 (MO)
Hudson: *Austin 3* (NY)
Hunterdon: *Buck 22198* (NY)
Middlesex: *E. Haines s.n.*, 13 Feb 1968 (CHRB)
Morris: *18368*
Passaic: *20606*
Somerset: *18122*
Sussex: *2071*
Warren: *18153*

***S. liliputianum* (Müller Hal.) Deguchi**

capsules: late spring - summer
on rocks

Passaic: *Britton & Britton s.n.* (NY)

***S. rivulare* (Bridel) Podpêra**

capsules: late spring-summer
on rocks near water

Bergen: *Wiegmann s.n.* 19 Jul 1915 (NY)
Hunterdon: *Moul 7827* (CHRB)
Morris: *18426*
Passaic: *20611*
Somerset: *18128* (BKL, CHRB)
Sussex: *18215*

***S. viride* H. Blom & C. Darigo**

capsules: spring - summer

on limestone and on old concrete

Bergen: 18257

Camden: 20863

Union: 18131

Sussex: 18260

Warren: 18351

Schwetschkeopsis (Anomodontaceae)

***S. fabronia* (Schwägrichen) Brotherus**

capsules: rare

tree bases, on bark

Bergen: *Austin s.n.* 17 Sep 1866 (NY)

Hudson: *Austin s.n.*, 28 Apr 1866 (NY)

Hunterdon: *Buck 22187* (NY)

Passaic: *Austin s.n.*, 1867 (NY)

Warren: *Buck 21573* (NY)

Sciuro-hypnum (Brachytheciaceae)

***S. curtum* (Lindberg) Ignatov** - formerly *Brachythecium curtum*

capsules: winter

on soil in coniferous woods

Sussex: *Austin s.n.*, Nov 1866 (NY)

***S. plumosum* (Hedwig) Ignatov & Huttunen** - formerly *Brachythecium plumosum*

capsules: fall

on moist rocks near streams

Bergen: *Wiegmann s.n.*, 10 Apr 1914 (NY)

Hunterdon: *Tan 89-1539* (NY)

Ocean: *Austin s.n.*, Jan 1868 (NY)

Passaic: *Austin s.n.*, Nov 1866 (NY)

Sussex: *Best s.n.*, 18 Nov 1893 (NY)

Warren: 25080

***S. populeum* (Hedwig) Ignatov & Huttunen** - formerly *Brachythecium populeum*

capsules: early summer

on rocks or shallow soil over rocks

Bergen: *Martin s.n.*, 30 Jul 1861 (NY)

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

Sussex: *Austin s.n.*, Nov 1875 (NY)

***S. reflexum* (Starke) Ignatov & Huttunen** - formerly *Brachythecium reflexum*

capsules: fall - early winter

tree bases and decaying logs

Essex: *C. Harris s.n.*, 20 Aug 1900 (MO)

Scorpidium (Amblystegiaceae)

***S. cossonii* (Schimper) Hedenäs** - *fide* FNA

on moist limestone or limy soil in uplands

***S. scorpioides* (Hedwig) Limpricht**

capsules: late summer

in rich moist habitats

Warren: *Wiegmann 898* (NY)

Seligeria (Seligeriaceae)

***S. calcarea* (Hedwig) Bruch & Schimper** - ours are *S. recurvata*

***S. donniana* (Smith) Müller Hal.**

capsules: late summer-fall

on limestone

Sussex: *Austin s.n.*, Sep 1867 (NY)

***S. recurvata* (Hedwig) Bruch & Schimper**

capsules: spring - early summer

on limestone

Bergen: *Austin s.n.* [*Musci App.* 110] (BKL, NY)

Passaic: *Beals s.n.*, May 1925 (DUKE)

Sematophyllum (Sematophyllaceae)

***S. adnatum* (Michx) E. Britton**

capsules: fall

tree bases in swamps

Bergen: *Austin s.n.* [*Musci App.* 339](BKL, MO, NY)

Burlington: *20692*

Camden: *20836*

Cape May: *Grout s.n.*, 3 Apr 1929 (DUKE)

Hunterdon: *Best s.n.*, 28 Jul 1908 (NY)

Passaic: *20523*

***S. demissum* (Wilson) Mitten**

capsules: summer

on rocks near streams

Bergen: *D. Levy 1072* (DUKE)

Hunterdon: *Best s.n.*, 20 Jun 1892 (DUKE, NY)

Passaic: *Austin s.n.* (NY)

Sussex: *Buck 21568* (NY)

Warren: *Buser 12044* (NY)

***S. marylandicum* (Müller Hal.) E. Britton** - *fide* FNA

capsules: spring

on logs and tree bases

Sphagnum (Sphagnaceae)

***S. affine* Renauld & Cardot**

capsules: summer

mineralotrophic wetlands, esp. forested mires

Burlington: *Barringer & Bien 15943* (BKL)
Cape May: *Andrus & Karlin 6982* (DUKE)
Cumberland: *Andrus & Karlin 7028* (DUKE)
Gloucester: *Andrus & Karlin 7087* (DUKE)
Ocean: *Austin s.n.* (NY)
Passaic: *12602*
Salem: *Andrus & Karlin 7056* (DUKE)
Sussex: *12332* (BKL, DUKE)

***S. angermanicum* Melin**

on sand and low on the edges of bogs, wet
Burlington: *Barringer & Bien 15942*
Cape May: *Andrus & Karlin 6995* (BING, DUKE, NY)
Ocean: *Andrus 7318* (BING, NY)

***S. angustifolium* (Russow) C. Jensen**

cold fens and bogs on sides of hummocks
Passaic: *12489* (BKL, BING, PH, DUKE)
Sussex: *23093*
Warren: *Shaw 10248* (DUKE)

S. atlanticum Andrus - see *S. torreyanum*

***S. austinii* Sullivant**

capsules: summer
ombrotrophic mires and large hummocks
Ocean: *Austin s.n.* (BKL, MO, NY)

***S. bartlettianum* Warnstorf**

capsules: late spring-summer
on wet sand in swamps and fens, often disturbed sites
Atlantic: *Andrus 7078* (BING, NY)
Bergen: *Austin 844-b* (NY)
Burlington: *Barringer & Bien 15932*
Cape May: *Andrus & Karlin 6998* (BING, DUKE, NY)
Cumberland: *Andrus & Karlin 7048* (BING, DUKE, NY)
Gloucester: *Andrus & Karlin 7084* (BING, DUKE, NY)
Ocean: *13630*
Passaic: *12599* (BKL, DUKE)
Sussex: *6447*

***S. capillifolium* (Ehrhart) Hedwig**

capsules: summer
on wet soil and rocks
Burlington: *Shaw 10215* (DUKE)
Cumberland: *Andrus & Karlin 7059* (BING, DUKE)
Ocean: *Slack 1337* (BING)
Passaic: *20488*
Sussex: *H. Gleason 48189* (DUKE, NY)

***S. carolinianum* Andrus**

floating in bog depressions and sandy pools
Burlington: *Andrus & Gordon 6772* (BING, DUKE, NY)
Ocean: *16111*

***S. centrale* C. Jensen**

capsules: uncommon-summer
fens, especially coniferous fens and sedge fens
Sussex: *Karlin 650* (BING, DUKE)

***S. compactum* DC.**

capsules: summer
poorly drained sand, wet soil
Atlantic: *Koster 526* (CHRB, NY)
Bergen: *Austin 722* (NY)
Burlington: *14159*
Cumberland: *Andrus & Wagner 5899* (BING, DUKE)
Morris: *18232*
Ocean: *Robinson s.n.*, 14 Jun 1938 (NY)
Sussex: *16751*
Warren: *Austin s.n.*, s.d. (NY)

***S. contortum* Schultz**

on soil in wet, open sites
Burlington: *Damman 75021* (DUKE)
Morris: *Karlin 697* (BING, DUKE)
Warren: *Karlin 9306-190* (BING, DUKE)

***S. cuspidatum* Hoffman**

capsules: early-mid summer
near water line in fens and bogs
Atlantic: *13589*
Burlington: *Barringer & Bien 15937*
Camden: *13569*
Cape May: *Andrus & Karlin 7010* (DUKE)
Cumberland: *Andrus & Karlin 7049* (BING, DUKE, NY)
Ocean: *19966*
Salem: *13547*
Sussex: *6511*

***S. cyclophyllum* Sullivant & Lesquereux**

on sand in seasonally flooded, open sites, ditches
Atlantic: *James s.n.*, s.d. (NY)
Burlington: *16314*
Ocean: *Andrus 7321* (BING, DUKE, NY)

***S. fallax* (Klinggraff) Klinggraff**

capsules early-mid summer
pioneer on soil or sand in poor fens
Atlantic: *C. Reed 77575b* (MO)

Burlington: 20906
Camden: 21171
Cape May: *Andrus & Karlin 6987* (BING, DUKE)
Cumberland: *Andrus & Karlin 7035* (BING, DUKE)
Gloucester: *Andrus & Karlin 7094* (BING, DUKE)
Hudson: *Heuser s.n.*, Apr 1949 (CHRB)
Morris: 16183
Passaic: 23160
Salem: *C. Reed 134093* (MO)
Sussex: 24352

***S. fimbriatum* Wilson & Hooker**

capsules: late spring - summer
on soil at the edge of ponds, bogs
Atlantic: *C. Reed 77575a* (MO)
Bergen: 20272
Burlington: *Barringer & Bien 15941* (BKL)
Cumberland: *Andrus 5879* (BING, DUKE, NY)
Monmouth: *S. Dubois s.n.*, 25 Oct 1985 (DUKE)
Morris: 14689
Ocean: 22108
Passaic: 14772
Salem: *Andrus & Karlin 7058* (BING, DUKE, NY)
Sussex: 17370
Union: 18755
Warren: 20977

***S. flavicomans* (Cardot) Warnstorf**

capsules: summer
swamps, pond edges, usually high up on hummocks
Atlantic: *C. Reed 134022* (MO)
Burlington: *Barringer & Bien 15931* (BKL)
Camden: 13570
Cape May: *Andrus & Karlin 6988* (BING, DUKE, NY)
Cumberland: *Andrus & Karlin 7066* (NY)
Middlesex: *Andrews s.n.* 30 Aug 1913 (NY)
Ocean: 16115
Salem: *C. Reed 134100* (MO)
Sussex: *Andrus & Karlin 6835* (BING, DUKE, NY)
Warren: *J. Shaw 10242* (DUKE, S)

***S. flexuosum* Dozy & Molkenboer**

capsules: summer
sedge fens and edges of open wetlands
Sussex: 16550

***S. fuscum* (Schimper) Klinggraff**

capsules: late summer

fens and bogs, usually on hummocks

Burlington: *H. Gleason* 48296 (DUKE)

Monmouth: *T. Gordon s.n.*, Oct 1988 (BING, NY)

Ocean: *H. Gleason* 48275 (DUKE)

Sussex: 15997

Warren: *J. Shaw* 10240 (DUKE)

***S. girgensohnii* Russow**

capsules: late summer

on soil in swamps, wet forests, shaded streams

Bergen: 20273

Morris: *Austin* 761 (NY)

Passaic: 20471

Sussex: 23589

S. henryense Warnstorff - see *S. palustre*

***S. inundatum* Russow**

edges of streams and pods, dripping rock faces

Atlantic: 16282

Burlington: *J. Shaw* 10229 (DUKE)

Cape May: *Andrus & Karlin* 7008 (BING)

Morris: 23535

Passaic: *Karlin* 484 (BING)

Sussex: *Andrus* 7362 (BING)

***S. isoviitae* Flatberg**

poor to medium fens

Burlington: *Barringer & Bien* 15929 (BKL)

Cape May: *Andrus & Karlin* 6985 (BING, NY)

Cumberland: *Andrus* 7024 (BING, MO)

Hunterdon: *Mitchell* 688 (NY)

Ocean: *Andrus* 7323 (BING, NY)

Sussex: *Andrus & Karlin* 6033 (BING, NY)

S. lescurii Sullivant - see *S. subsecundum*

***S. macrophyllum* Bridel**

shallow lakes and ponds

Burlington: 12409

Cape May: *Andrus & Karlin* 7009 (NY)

Ocean: *Andrus* 7313 (BING, NY)

***S. magellanicum* Bridel**

capsules mid summer

widespread in fens and bogs

Atlantic: *Andrus & Karlin* 7076 (BING, NY)

Burlington: 19512

Camden: 20886

Cumberland: *Andrus & Karlin* 7063 (BING, NY)

Morris: *Nash s.n.* (NY)

Ocean: 16120

Sussex: *Nee* 50124 (NY)

Warren: *Shaw* 10244 (DUKE)

***S. majus* var. *majus* (Russow) C. Jensen** - *fide* FNA

floating mats with *S. cuspidatum*

***S. majus* var. *norvegicum* Flatberg** - *fide* FNA

floating mats and lake edges,

***S. molle* Sullivant**

capsules summer

on sand in fens and dune depressions, periodically dry sites

Burlington: 16256

Cape May: *Andrus & Karlin* 7002 (BING, NY)

Cumberland: *Andrus & Karlin* 7065 (BING, NY)

Ocean: *Boomhour* 1009 (DUKE)

***S. mississippiense* Andrus** -see *S. cuspidatum*

***S. palustre* L.**

capsules: summer

widespread in fens and bogs

Bergen: 20271

Burlington: 16427

Cape May: *C. Reed* 134578 (MO)

Cumberland: 13602

Morris: 18395

Ocean: 20001

Passaic: 20600

Salem: *C. Reed* 134095 (MO)

Sussex: 6391

Warren: 22700

***S. papillosum* Lindberg**

capsules summer

poor fens and bogs

Atlantic: *Andrus & Karlin* 7079 (BING, NY)

Burlington: *Barringer & Bien* 15935 (BKL)

Cape May: *Andrus & Karlin* 6993 (BING, NY)

Cumberland: *Andrus & Karlin* 7069 (BING, NY)

Gloucester: *Andrus & Karlin* 7088 (BING, NY)

Ocean: 13634

***S. perichaetiale* Hampe**

capsules: late spring to early summer

wet depressions in sand, especially where burned

Atlantic: *Koster* SP 43 (NY)

Burlington: 16084

Cape May: *Leonard* 2335 (NY)

Ocean: 16106

***S. platyphyllum* (Lindberg) Warnstorf**

capsules: late spring-summer
on soil in open, seasonally flooded sites, pond margins
Bergen: *Karlin 8809* (DUKE)
Burlington: *Andrus 6628* (BING, NY)
Sussex: *6452*

***S. portoricense* Hampe**

swamps, stream channels, and shallow ponds
Burlington: *12405*
Cape May: *Andrus & Karlin 6983* (BING, NY)
Ocean: *Andrews s.n.*, Sep 1913 (NY)

***S. pulchrum* (Lindberg) Warnstorf**

capsules: late summer-fall
Atlantic: *Koster 52* (NY)
Burlington: *19501*
Camden: *13568*
Cape May: *Andrus & Karlin 6986* (BING, NY)
Cumberland: *Andrus & Karlin 7061* (BING, NY)
Ocean: *16117*

***S. pylaesii* Bridel**

pioneer on wet rocks, ditches, disturbed sites
Atlantic: *Britton s.n.*, 30 Mar 1893 (NY)
Burlington: *16313*
Gloucester: *Lippincott s.n., s.d.* (DUKE)
Ocean: *L. Anderson 27364* (DUKE)
Sussex: *Gleason 48188* (DUKE)

***S. quinquefarium* (Lindberg) Warnstorf**

capsules: summer
on wet rocks and soil, especially in conifer woods
Cumberland: *Andrus 7021* (DUKE)
Ocean: *D. Eaton s.n., s.d.* (NY)

***S. recurvum* P. Beauvois**

capsules: uncommon, late summer-fall
carpets on acidic, nutrient-poor sites
Atlantic: *Andrus & Karlin 7077* (BING, NY)
Bergen: *Austin 795* (NY)
Burlington: *19511*
Camden: *20885*
Cape May: *Andrus & Karlin 6987* (BING, NY)
Cumberland: *Andrus & Karlin 7035* (BING, NY)
Gloucester: *13553*
Monmouth: *14969*
Ocean: *16112*
Passaic: *12600*

Salem: 13548

Sussex: 16000

***S. riparium* Ångström**

carpets on sandy soil

Sussex: *Andrus & Karlin 6836* (DUKE, NY)

***S. rubellum* Wilson**

capsules: summer

carpets in fens and bogs

Burlington: *L. Anderson 27382* (DUKE)

Camden: *W. Taylor s.n., s.d.* (DUKE)

Ocean: *Andrus 3600* (BING, MO)

***S. russowii* Warnstorf**

capsules: late spring-summer

on shaded soil in woods, usually conifer woods

Burlington: *L. Anderson 27363* (DUKE)

Passaic: 18020

Sussex: 16536

Warren: *Shaw 10241* (DUKE)

***S. squarrosum* Crome**

capsules: early-mid summer

on soil in swamps, stream margins

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

Morris: 18552

Passaic: 20496

Sussex: 16376

Warren: 20962

***S. strictum* Sullivant**

capsules: early-mid summer

wet, exposed sand and burned over spots

Atlantic: *Koster S144* (NY)

Burlington: *Andrus 7301* (BING, NY)

***S. subfulvum* Sjors**

capsules: summer

on soil in shrub swamps

Warren: *Shaw 10236* (DUKE)

***S. subsecundum* Nees** (including *S. lescurii*)

on soil at the edges of ponds, swamps, open pools

Atlantic: *Koster 56* (NY)

Burlington: 14143

Bergen: *Austin s.n.*, Jun 1869 (NY)

Burlington: 11973

Cumberland: *Andrus & Wagner 5851* (NY)

Hunterdon: 13716

Middlesex: *Wiegmann 285* (NY)

Morris: 18232
Ocean: *Weikert s.n.* (NY)
Passaic: 12578
Sussex: *Andrus 6818* (BING, NY)

***S. subtile* (Russow) Warnstorf**

capsules late summer-fall
shaded fens and wet conifer woods
Burlington: *Yahr 3000b* (DUKE)
Ocean: *Andrus 103* (DUKE)
Sussex: *Andrus 7370* (BING, MO)

***S. tenellum* (Bridel) Bory**

capsules: summer
wet depressions in bogs and sandy swamps
Atlantic: *Koster 24* (NY)
Bergen: *Austin s.n.*, Aug 1865 (NY)
Burlington: 17277
Cumberland: *Andrus & Karlin 7059* (BING, NY)
Hunterdon: *Mitchell 676* (NY)
Ocean: *Andrus 7293* (BING, NY)
Sussex: *Andrus & Karlin 6814* (BING, NY)

***S. tenerum* Sullivant**

on wet sand at bog, swamp, or pond edges and disturbed sites
Atlantic: *Andrus & Karlin 7080* (BING, NY)
Bergen: *Austin s.n.* (NY)
Burlington: 16086
Camden: 20833
Cumberland: 13603
Middlesex: *Andrews s.n.*, 30 Aug 1913 (NY)
Morris: 16184
Ocean: 18978
Sussex: 6515

***S. teres* (Schimper) Ångström**

capsules late spring-early summer
on soil in rich fens sometimes on basic soils
Sussex: *Andrus & Karlin 6827* (BING, NY)
Warren: *Shaw 10239* (DUKE)

***S. torreyanum* Sullivant**

sandy or peaty streams and wet depressions in bogs
Atlantic: 16279
Bergen: *Austin 18* (NY)
Burlington: *Barringer & Bien 15939* (BKL)
Camden: 20876
Cape May: *Shaw 13606* (DUKE)
Cumberland: 13601

Gloucester: *Andrus & Karlin 7085* (NY)
Monmouth: 22842
Ocean: 19967
Passaic: 12564
Sussex: 6451

***S. trinitense* Müll. Hal.**

capsules: summer
submersed in sandy ponds and ditches
Atlantic: *Koster S84* (NY)
Burlington: *Andrus 5885* (BING, NY)
Cape May: *Andrus & Karlin 7010* (BING, NY)
Cumberland: *Andrus & Karlin 7030* (BING, NY)
Gloucester: *Andrus & Karlin 7093* (BING, NY)
Ocean: *Andrus 7315* (BING, NY)

***S. viride* Flatberg**

carpets in weakly mineralotrophic mires
Cape May: *Andrus & Karlin 6996* (NY)

***S. warnstorffii* Russow**

on wet soil, often with conifers
Burlington: 12061
Warren: *Shaw 10237* (DUKE)

Splachnum (Splachnaceae)

***S. ampullaceum* Hedwig** - *fide* FNA

capsules: summer
old herbivore dung, in peat bogs and swamps

***S. pennsylvanicum* (Bridel) Grout**

capsules: winter-spring
herbivore dung in swamps and bogs
Burlington: *B. D. Greene s.n.*, May 1831 (NY)
Monmouth: *Underwood s.n.*, Jul 1885 (NY)
Ocean: *Austin s.n.*, Aug 1863 (NY)

Steerecleus (Brachytheciaceae)

***S. serrulatus* (Hedwig) H. Robinson** - see *Rhynchostegium serrulatum*

Syntrichia (Pottiaceae)

***S. papillosa* (Wilson) Juratska** - formerly *Tortula papillosa*

capsules: unknown
on bark of trees or in rock crevices
Burlington: *Laning s.n., s.d.* (NY)
Hudson: *s.l. s.n.*, 20 Aug 1866 (NY)

***S. ruralis* (Hedwig) F. Weber & D. Mohr** - formerly *Tortula ruralis*

capsules: spring

on dry to moist, calcareous soil or rocks
Sussex: *Austin s.n.* [*Musci App.* 131] (BKL, NY)

Taxiphyllum (Hypnaceae)

***T. deplanatum* (Sullivant) Fleischer**

capsules: fall, rare
shaded rocks or soil, often on tree roots or bases
Bergen: *Austin s.n.*, 1873 (NY)
Sussex: 24686

***T. taxirameum* (Mitten) Fleischer**

capsules: spring - early summer
on shaded rock or soil
Hudson: *Austin s.n.*, Feb 1867 (NY)
Hunterdon: *Best s.n.*, 28 Aug 1906 (NY)
Sussex: *s.l. s.n.*, 25 Aug 1890 (NY)

Tetraphis (Tetraphidaceae)

***T. pellucida* Hedwig**

capsules: spring - early summer, but can persist until winter
on rotting wood
Bergen: 21736
Burlington: *Best s.n.*, 19 Jun 1897 (NY)
Gloucester: *Lippincott s.n.*, 7 May, 1899 (DUKE)
Hunterdon: *Best s.n.*, 16 Oct 1891 (NY)
Middlesex: 21817
Monmouth: *E. Britton s.n.*, 15 May 1910 (DUKE)
Morris: 18399
Ocean: 13626
Passaic: 12527
Sussex: 6398
Union: 20090
Warren: 22415

Tetraplodon (Splachnaceae)

***T. angustatus* (Hedwig) Bruch & Schimper**

capsules: late summer
owl pellets, carnivore dung, carcasses
Burlington: *B. Greene s.n.*, 1831 (NY)

Thamnobryum (Neckeraceae)

***T. alleghaniense* (Müll. Hal.) Nieuwland**

capsules: fall
dripping rocks
Bergen: *Weigmann 67* (BKL, NY)

Hunterdon: *Best s.n.*, 20 Sep 1909 (NY)
Sussex: *Buck 21558* (NY)

Thelia (Theliaceae)

***T. asprella* Sullivan**

bark of hardwoods, esp. near base, in dry, open woods

Bergen: *Jelliffe s.n.*, 17 Nov 1887 (BKL, NY)

Burlington: *Best s.n.*, 19 Jun 1897 (NY)

Camden: *Green s.n., s.d.* (NY)

Cumberland: *Long 642* (NY, PH)

Hunterdon: *Cantlon and Moul 293* (CHRB, NY)

Mercer: *Best s.n.*, 23 Nov 1894 (NY)

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

Ocean: *J. K. Small s.n.*, 14 Apr 1894 (NY)

Salem: *Long 1199* (NY, PH)

Sussex: *Wiegmann 812* (NY)

Warren: *I. Henley 6* (NY)

***T. hirtella* (Hedwig) Sullivan**

capsules: fall

bark of hardwoods, esp. near base, in dry, open woods

Bergen: *Austin s.n., s.d.* (BKL, MO, NY)

Burlington: *G. Kaiser 5005* (DUKE)

Camden: *20855*

Cape May: *Long 1555* (DUKE)

Essex: *Wiegmann s.n.*, 15 Mar 1917 (NY)

Gloucester: *Lippincott s.n.*, 7 May 1899 (DUKE)

Hunterdon: *Best s.n.*, 11 Dec 1898 (NY)

Monmouth: *Wiegmann s.n.*, 28 Apr 1912 (NY)

Ocean: *J. Copeland 665* (NY)

Passaic: *24242*

Salem: *Long 1187* (NY, PH)

Sussex: *18100*

Union: *Wynne 2700* (NY)

***T. lescurii* Sullivan**

sandy soil

Bergen: *E. G. Britton [E. B. Chamberlain] s.n.*, 25 Jun, 1901 (NY)

Burlington: *Rau s.n.* (NY)

Cape May: *s.l., s.n.*, Apr 1939 (BKL)

Thuidium (Thuidiaceae)

***T. allenii* C. F. Austin** - not reported but possible in coastal plain swamps

***T. delicatulum* (Hedwig) BSG**

capsules: fall and winter

on various substrates in moist, shaded spots

Bergen: 22277

Burlington: *Cantlon s.n.* (CHRB, NY)

Cape May: *Moul 6162* (CHRB, NY)

Hunterdon: 25100

Mercer: *Best s.n.*, 24 Jun 1890 (NY)

Monmouth: 21593

Morris: 17709

Ocean: 22748

Passaic: 20498

Somerset: 18120

Sussex: 7469

Union: 20091

Warren: 20965

T. philibertii Limpricht - not in NJ, ours are *T. delicatulum*

***T. recognitum* (Hedwig) Lindberg**

various substrates in moist, shaded spots, calciphile

Bergen: *Austin 5* (NY)

Hunterdon: *Best s.n.*, 16 Nov 1893 (NY)

Middlesex: *s.l. s.n.*, 18 Jul 1896 (NY)

Monmouth: *Beals s.n.* 11 Sep 1938 (MO)

Passaic: *G. Anderson s.n.*, 14 Apr 1923 (NY)

Sussex: 21095

Warren: *Beals s.n.*, 11 Sep 1938 (BKL, NY)

T. tamariscanum (Hedwig) BSG - early NJ reports are *Abietinella abietinum*

Timmia (Timmeriaceae)

***T. megapolitana* Hedwig**

capsules: always

on soil in woods, especially calcareous soils, occasionally on golf courses and cemeteries

Hunterdon: *Best s.n.*, 30 Apr 1891 (NY)

Mercer: *Macloskie s.n.*, *s.d.* (NY)

Morris: *Austin s.n.*, 14 Aug 1867 (NY)

Sussex: *Wiegmann 881* (NY)

Tomenthypnum (Brachytheciaceae)

***T. nitens* (Hedwig) Loeske**

cool, calcareous swamps, black spruce bogs

Warren: *Beals & M. Beals 504* (MO)

Tortella (Pottiaceae)

***T. fragilis* (Hooker & Wilson) Limpricht**

capsules rare, summer

seasonally dry sites, often on rocks and ledges

Sussex: *Austin s.n.* [*Musci App.* 129] (BKL, NY)

***T. humilis* (Hedwig) Jennings**

capsules: spring

on soil or tree bases, sometimes on old mortar or concrete

Bergen: *Wiegmann 196* (BKL, NY)

Burlington: *Best s.n.*, 19 Jun 1897 (NY)

Camden: *20856*

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

Hunterdon: *Best s.n.*, 15 Apr 1893 (NY)

Ocean: *19977*

Sussex: *22032*

Warren: *Cowan and Wurdack 176* (NY)

***T. tortuosa* (Hedwig) Limpricht**

capsules: Jun-Aug

moist sites often in limestone regions

Sussex: *25299*

***Tortula* (Pottiaceae)**

***T. acaulon* (Withering) R. H. Zander** - formerly *Phascum cuspidatum*

capsules: winter-spring

open sites, soil, lawns, fields, roadbanks

Bergen: *Austin s.n.*, Apr 1868 (NY)

Burlington: *Kaiser s.n.*, 16 Mar 1912 (DUKE)

Mercer: *Chamberlain 4592* (NY)

***T. muralis* Hedwig**

capsules: spring-summer

calcareous rock, cement in walls

Bergen: *Wiegmann 57* (NY)

Essex: *s.l. 60* (NY)

Monmouth: *C. Reed 134689* (MO)

Passaic: *Nash s.n.*, 11 Nov 1893 (NY)

***T. obtusifolia* (Schwägrichen) Mathieu** - formerly *Desmatodon obtusifolius*

capsules: spring-fall

limestone region on soil and rocks, otherwise on mortar and old concrete

Bergen: *Austin s.n.* [*Musci App.* 122] (BKL, NY)

***T. pagorum* (Milde) De Notaris** - not in NJ, also now *Syntrichia laevipila*

***T. papillosa* Wilson** - see *Syntrichia papillosa*

***T. plinthobia* (Sullivant & Lesquereux) Austin** – *fide* FNA

capsules: spring

calcareous rocks, cement in walls

***T. porteri* (James) Brotherus**

capsules: spring

imestone rocks

Sussex: *E. Bartram 648* (NY)

T. ruralis (Hedwig) Gaertner *et al.* - see *Syntrichia ruralis*

***T. truncata* (Hedwig) Mitten**

capsules spring-fall

calcareous soil, in fields and lawns, roadsides

Bergen: *Levy 994* (DUKE)

Huntersdon: *Best s.n.*, 26 Nov 1890 (NY)

Middlesex: *G. Anderson s.n.*, 30 Apr 1945 (NY)

Sussex: *25306*

Trematodon (Bruchiaceae)

***T. ambiguus* (Hedwig) Hornschuch**

capsules: summer-fall

on soil, lakesides, roadbanks

Bergen: *Austin s.n.*, 2 Jun 1874 (NY)

***T. longicollis* Michaux**

capsules spring-summer

on soil or sand

Bergen: *Austin s.n.* [*Musci App. Suppl.* 476] (BKL, NY)

Ocean: *E. Britton s.n.*, 30 May 1887 (BKL, NY)

Trichostomum (Pottiaceae)

***T. tenuirostre* (Hooker & Taylor) Lindberg** - not in NJ? closest seems to be Catskills

capsules: fall

on limestone ledges and soil under overhangs and in seeps

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

Warren: *Austin s.n.*, Oct 1871 (NY)

Ulota (Orthotrichaceae)

***U. coarctata* (P. Beauvois) Hammar**

capsules: fall - winter (may be present all year)

trunks of deciduous trees in beech-maple forest

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

Gloucester: *Ellis s.n.*, 29 Oct 1893 (NY)

***U. crispa* (Hedwig) Bridel**

capsules: late spring - summer

trunks of deciduous trees, especially birch

Bergen: *22288b*

Hunterdon: *Cantlon s.n.*, 8 Sep 1950 (CHRB)

Morris: *22654*

Ocean: *Britton s.n.*, 14 Apr 1894 (NY)

Passaic: *20547*

Sussex: 21916

***U. hutchinsiae* (Smith) Hammar**

capsules: summer

acidic rocks

Bergen: 22288

Essex: *E. Britton & Britton s.n.*, 28 Oct 1882 (NY)

Hudson: 18271

Hunterdon: *Best s.n.*, Dec 1892 (NY)

Morris: 18507

Passaic: 20518

Sussex: 18189

Warren: 18309

***Warnstorfia* (Calliergonaceae)**

***W. exannulata* (Schimper) Loeske**

akes, rich fens and around springs

Morris: *J. Allen 408* (NY)

Warren: *Henley & Conard s.n.* (NY)

***W. fluitans* (Hedwig) Loeske**

poor fens, bog pools, on rocks in acid ponds

Bergen: *Austin s.n.*, 28 Sep 1865 (NY)

Camden: *Kaiser s.n.*, 15 Jun 1910 (MO)

Hunterdon: *Best s.n.*, 19 May 1892 (NY)

Morris: *B. Allen 16250* (MO)

Ocean: *Austin s.n., s.d.* (NY)

Sussex: 20581

***Weissia* (Pottiaceae)**

***W. brachycarpa* (Nees & Hornschuch) Juratzka - *fide* FNA**

capsules: spring

on soil or rocks in limestone region

***W. controversa* Hedwig**

capsules present most of the year

on soil or rock in disturbed sites, roadsides, fields

Atlantic: *S. Field s.n.*, 24 Feb 1990 (MO)

Bergen: *Zander 4726* (MO)

Burlington: *Koster B5* (MO, NY)

Essex: *E. Britton s.n.*, 28 Oct 1882 (NY)

Hudson: *Austin s.n.*, Feb 1867 (NY)

Hunterdon: *Beals s.n.*, 26 Jun 1938 (NY)

Passaic: *Austin s.n.*, 10 Jun 1882 (NY)

Somerset: *Austin s.n.*, Jul 1879 (NY)

Sussex: 18084

Warren: *Wurdack & Cowan 175* (NY)

W. hedwigii H. Crum - see *Weissia brachycarpa*

W. muehlenbergiana (Swartz) Grout - formerly *Astomum muehlenbergianum*

Bergen: *Austin s.n.*, Nov 1877 (BKL, NY)

Hudson: *Austin s.n.*, Feb 1867 (NY)

Mercer: *Chamberlain s.n.*, 16 Mar 1912 (DUKE)

Passaic: *Beals 2656* (DUKE, NY)

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