

# A Checklist of New Jersey Mosses

Version 2.2

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

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This list was originally developed from the lists compiled by Dr. Eric E. Karlin and his collaborators (E. 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 and added species and localities to my original list (Barringer 2011).

This list is alphabetical by genus, with the species listed alphabetically under each genus. The family that the genus is currently classified in is listed in parentheses after the genus name. Families follow the classification of 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.

In a few cases, the Flora North America (Flora North America Committee 2007, 2014) cites a New Jersey distribution for species I have not found a record for. These species are marked "*fide* FNA."

Standard herbarium acronyms are used to indicate where specimens are housed. Dr. Erik Kiviat's important collections from the Meadowlands are housed at Hudsonia, Ltd., Annandale, NY and are cited "Hudsonia."

It is difficult sometimes to determine the collection locality for older specimens. I have tried to include citations only for those collections where the locality data is clear. In the few cases where I thought it was important to cite a specimen with a questionable locality, I have added a question mark in brackets, [?]. For example, some of C. F. Austin's collections just list 'Closter,' his home, or 'Palisades,' which covers two New Jersey counties and two in New York. I avoided using these collections when possible but indicated the ambiguous locality otherwise.

Many older collections were not given collection numbers and sometimes do not have clear collection dates. I have only included these when there was no alternative. Our most important bryologist, Austin, did not number his collections or provide a collection date and the numbers and dates that do exist were not included in the specimens that were distributed after his death. The collections are very important, however, often being the only collection known from the state or from a county. In most cases., I have been able to use the numbers from the

organized collections he sold, his monumental ‘*Musci Appalachiani*’ (Austin 1870) and ‘*Musci Appalachiani*, Supplement (Austin 1878).’ These are indicated in the citation.

I have indicated those species that might be rare in the state based on habitat, distribution, and known collections. State rarities with legal standing are determined by the State Botanist and currently *Sphagnum* species are the only mosses officially listed. All ranks are taken from Natureserve (2022) and Snyder (2016). Karlin (1994) was the first to suggest state rarity ranks based on the data available at the time. I have tried to take a fresh look at the problem of ranking and have put my notes in parentheses.

Determining reliable conservation ranks of New Jersey mosses is difficult because we don’t have good data for the current distribution of most species. One hundred species, more than a quarter of the moss species recorded in the state, could be rare and, of those, more than seventy are known only from records more than 100 years old.

Species represented only by collections more than 100 years old are marked “historic.” Many of these species may no longer be in the state but we do not have enough data to determine their status. Dr. Erik Kiviat’s excellent collections from the Meadowlands, which include state records and species not recorded since Austin’s time, give me hope that further careful collection will relocate many of these species.

Table 1. Number of recorded species in New Jersey

	<b>Species</b>	<b>Historical records</b>	<b>Probably rare</b>
<b>New Jersey</b>	368	70	100

Table 2. Number of recorded species per County

<b>County</b>	<b>Species</b>
Atlantic	81
Bergen	239
Burlington	149
Camden	68
Cape May	67
Cumberland	117
Essex	65
Gloucester	69
Hudson	100
Hunterdon	167
Mercer	54
Middlesex	64
Monmouth	75
Morris	131
Ocean	114
Passaic	134

Salem	81
Somerset	53
Sussex	218
Union	49
Warren	168

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**Green** = additions to the list

**Red** = deletions from the list

**Blue** = accepted taxa

**Abietinella** (Thuidiaceae)

**A. abietina (Hedwig) Fleischer**, wiry fern moss, fir tamarisk moss

[G5, SNR (probably rare)]

capsules: uncommon, summer-late summer

On bare rock and exposed soil of dry, limestone ridges.

ecoregion: Ridge and Valley, valley

Passaic: *D. Levy 894* (DUKE)

Sussex: *W. Wiegmann 164* (BKL, NY, NYS)

Warren: *M. Robertson 4453* (PH)

**Acaulon** (Pottiaceae) - some NJ specimens are variable

**A. muticum (Hedwig) Müll. Hal.**, dwarf earth moss, pygmy moss

[G4, SNR (historic, rare if extant)]

capsules: late fall- spring

soil, lawns, pastures

ecoregion: Atlantic Coastal Barrens, Delaware River Terraces

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

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

Mercer: *G. Kaiser s.n.*, 16 Mar 1912 (DUKE, FH, PH, YU)

**A. triquetrum (Spruce) Müll. Hal.**, triangular earth moss

[G3, SNR (historic, probably rare)]

capsules: late autumn - spring  
soil, sand, clay, old fields, roadsides, calciphile?  
ecoregion: Atlantic Coastal Barrens  
These specimens may just be variable plants of *A. muticum*.  
Burlington: *E. Gadsby s.n.*, 17 Mar 1912 (PH)  
Ocean: *C. Austin s.n.* [*Musci App.* 52] (BKL, MICH, MU, NEB, NY, NYS, WIS)

### ***Amblystegium*** (Amblystegiaceae)

***A. serpens* (Hedwig) Schimper**, creeping feather moss  
[G5, SNR (secure)]

widespread, capsules: spring - early summer  
various moist substrates in swamps and other wet habitats  
ecoregion: Ridge and Valley, Highlands, Piedmont  
Bergen: *E. Kiviat s.n.*, 4 Oct 2013 (Hudsonia)  
Burlington: *M. Robertson 4109* (PH)  
Cumberland: *B. Long 983* (PH)  
Hudson: *E. Kiviat s.n.*, 6 Feb 2009 (Hudsonia)  
Hunterdon: *W. Benner s.n.*, 6 May 1934 (PH)  
Middlesex: *A. Vail s.n.*, Aug 1890 (NY)  
Morris: *E. Moul 6775* (CHRB)  
Passaic: *G. Nash s.n.*, 25 Apr 1890 (NY)  
Salem: *B. Long 577* (PH)  
Somerset: *H. Webster 68131* (F, TENN)  
Sussex: *A. Grout s.n.* 26 May 1929 (DUKE)  
Union: *G. Bard s.n.*, 27 Oct 1951 (NY)  
Warren: *M. Robertson 5695* (PH)

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

*A. varium* (Hedwig) Lindberg - see *Hygroamblystegium varium*

### ***Amphidium*** (Orthotrichaceae)

***A. lapponicum* (Hedwig) Schimper**, Lapland yoke moss  
[G5, SNR (historic, rare if extant)]

capsules: spring - early summer  
seasonally wet crevices of acid cliffs  
Morris: *C. Austin s.n.*, Jun 1867 (NY)  
Sussex: *E. Bartram 992* (FH)  
Warren: *C. Austin s.n.*, 17 Oct 1867 (NY)

*A. mougeotii* (Bruch & Schimper) Schimper – likely, but ours are *A. lapponicum*

### ***Anacamptodon*** (Amblystegiaceae)

***A. splachnoides* (Bridel) Bridel**, knothole moss  
[G4, SNR (probably rare)]

capsules: found all year, but especially spring  
knotholes, crotches, and fissures of trees, especially beech, birch, and maple  
Bergen: *C. Austin s.n.*, 5 Nov 1865 (NY)  
Burlington: *W. Buck 28288* (NY)  
Camden: *R. Forman 46b* (CHRB)  
Cumberland: *B. Long 879* (PH)  
Hunterdon: *G. Best s.n.*, 7 May 1894 (BKL, DUKE, FH, MICH, MIN, NY, PH)  
Morris: *H. Habeeb 3174* (F)  
Sussex: *K. Barringer 22009* (BKL)  
Warren: *A. Beals s.n.*, 29 Oct 1922 (FH, MICH, NY)

#### **Andreaea** (Andreaeaceae)

***A. rothii* F. Weber & D. Mohr**, dusky rock moss, needle-leaved lantern moss

[G5, SNR (probably secure)]

capsules: spring – early summer (May-June)  
on moist, exposed rocks and cliffs, especially along fissures

Bergen: *K. Barringer 24807* (BKL)  
Hunterdon, *G. Best s.n.*, 25 Nov 1896 (FH, MIN)  
Morris: *K. Barringer & J. Rosenbaum 24977* (CHRB)  
Passaic: *K. Barringer 26812* (CHRB)  
Sussex: *T. Nash s.n.*, 23 Apr 1968 (MO)

***A. rupestris* Hedwig**, black rock moss

[G5, SNR (historic, rare if extant)]

Collections may be from Pennsylvania  
moist, acidic to neutral rocks and outcrops

without locality: *C. Austin s.n.* [*Musci App.* 42, 43] (BKL, NY)  
Warren: *T. Porter s.n., s.d.* (MO, PH)

#### **Anomodon** (Anomodontaceae)

***A. attenuatus* (Hedwig) Huber**, tree-skirt moss, tree-apron moss, poodle moss

[G5, SNR (secure)]

capsules: fall  
on wet to moist rocks or tree bases  
ecoregions: Ridge and Valley, Highlands, Piedmont

Bergen: *D. Levy 1987* (DUKE)  
Burlington: *B. Long 1492* (PH)  
Camden: *B. Long 1707* (PH)  
Cumberland: *B. Long 1404* (PH)  
Essex: *K. Barringer 22323* (BKL)  
Hunterdon: *G. Tees 616* (PH)  
Mercer: *G. Tees 69* (PH)  
Middlesex: *C. Austin s.n.*, 1 Aug 1867 (NY)  
Morris: *K. Barringer 22651* (BKL)

Ocean: *M. Robertson s.n.*, 17 Apr 1963 (PH)  
Passaic: *J. Lewis s.n.*, 10 Aug 1927 (PH)  
Salem: *M. Robertson 2696* (PH)  
Somerset: *E. Haines s.n.*, 7 Apr 1968 (CHRB)  
Sussex: *A. Beals & M Beals s.n.*, Jun 1929 (DUKE, ISC, MO)  
Union: *W. Wiegmann 60* (BKL, NY)  
Warren: *K. Barringer 18285* (BKL, CAS, NY, VT)

**A. minor (Hedwig) Fürnrohr** blunt-leaved tongue moss, tongue moss  
[G5, SNR (probably secure)]

capsules: fall

thin mats on calcareous rocks and tree bases

ecoregions: Ridge and Valley, in valley

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

Hunterdon: *G. Best 105* (NY)

Mercer: *G. Tees 570* (PH)

Passaic: *K. Barringer 18182b* (BKL)

Sussex: *H. Webster s.n.*, 2 Jun 1968 (CHRB)

Warren: *W. Buck 21602* (NY)

**A. rostratus (Hedwig) Schimper**, velvet tree-apron moss, velvet tree-skirt, yellow yarn moss  
[G5, SNR (secure)]

capsules: fall

base of deciduous trees or vertical surfaces on limestone rocks

ecoregions: widespread, principally Ridge and Valley, Highlands

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

Cape May: *M. Robertson 2090* (PH)

Cumberland: *B. Long 1141* (NY, PH)

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

Hunterdon: *E. Moul 6781* (CHRB, NY)

Mercer: *G. Tees 569* (PH)

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

Monmouth: *D. Levy s.n.*, 17 Jul 1910 (NY)

Morris: *E. Moul 6762* (CHRB)

Ocean: *M. Robertson 4287* (PH)

Passaic: *G. Tees 1102* (PH)

Sussex: *K. Barringer 20326* (BKL, CAS, NY)

Union: *W. Wiegmann 59*, 28 Feb 1915 (BKL, NY, NYS)

Warren: *D. Evert s.n.*, 16 May 1962 (BKL)

**A. rugelii (Müll. Hal.) Keissler**, Rugel's skirt moss, Rugel's yarn moss  
[G5, SNR (probably secure)]

capsules: fall

on rocks and on tree trunks, usually 1-2 ft above the ground

ecoregions: Ridge and Valley, Highlands, Piedmont ridges

Bergen: *A. Grout s.n.*, Nov 1903 (FH, PH)

Hunterdon: *G. Best s.n.*, Aug 1892 (FH, PH)  
Morris: *K. Barringer 18508* (BKL)  
Sussex: *K. Barringer 6471* (BKL)

***A. thraustus* Müll. Hal.**

[GNR, SNR (historic, probably rare)]  
capsules: fall

Bergen: *C. Austin s.n.* [*Musci App.* 276] (CAS, PH, MICH, MU, WIS)

***A. tristis* (Cesati) Sullivant & Lesquereux**, threadbare moss

[G5, SNR (probably secure)]  
capsules: never

on bases of deciduous trees

ecoregions: Ridge and Valley, Highlands, Piedmont

Bergen: *A. Grout 195* (BKL, ILL, NY, MICH, OS, VT, YU)

Burlington: *R. Wallace 8200053* (CHRB)

Cumberland: *B. Long 1295* (PH)

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

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

Warren: *N. Miller 10126* (NYS)

***A. viticulosus* (Hedwig) Hooker & Taylor**, long-tailed moss

[G5, SNR (secure)]  
capsules: fall

on tree bases or rocks, especially in limestone areas

ecoregion: Ridge and Valley (valley)

Sussex: *W. Wiegmann 175* (BKL, NY, NYS)

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

***Aphanorrhagma*** (Funariaceae)

***A. serratum* (Hooker f. & Wilson) Sullivant**, lidded earth moss

[G4, SNR (probably rare)]  
capsules: fall - early winter

on soil along creeks, seasonally flooded woods, swamps

Ecoregions: Piedmont

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

Hunterdon: *J. Churchill B72-8261* (MSC)

***Archidium*** (Archidiaceae)

***A. ohioense* Schimper**, Ohio earth moss

[G4, SNR (historic, rare if extant)]  
capsules: fall - spring

moist, exposed soil or wet rocks, roadsides

Bergen: *C. Austin s.n.*, 30 Oct 1868 (FH, NY)

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

***Arrhenopterum*** (Aulacomniaceae)

**A. heterostichum** Hedwig, goose-egg moss,

[G5, SNR (secure)]

capsules: summer

on soil banks in oak woods

ecoregions: widespread

Atlantic: *B. Long 1316* (PH)

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

Burlington: *M. Robertson 7921* (PH)

Camden: *s.l. s.n.* [*Musci App.* 220] (BKL, MICH, MU, NY, PH)

Cape May: *M. Robertson 4251* (PH)

Cumberland: *B. Long 685* (NY, PH)

Gloucester: *C. Lippincott s.n.*, 18 Apr 1899 (DUKE, PH)

Hunterdon: *E. Moul 6777* (NY)

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

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

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

Ocean: *B. Long 2223* (PH)

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

Salem: *B. Long 989* (PH, NY)

Somerset: *W. Wiegmann 487* (NY)

Sussex: *W. Wiegmann 843* (NY)

Warren: *M. Robertson 7127* (PH)

**Astomum** (Pottiaceae)

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

**Atrichum** (Polytrichaceae)

**A. altecristatum** (Ren. & Cardot) Smyth & Smyth, ridged smooth-cap, wavy starburst

[G5, SNR (secure)]

capsules: spring - summer

exposed soil in woods, roadsides, trailsides

Bergen: *E. Kiviat s.n.*, 1 Apr 2005 (Hudsonia)

Cumberland: *B. Long 729* (NY, PH)

Hudson: *E. Kiviat s.n.*, 22 Mar 2005 (Hudsonia)

Hunterdon: *W. Buck 22239* (NY)

Monmouth: *K. Barringer 7553*

Morris: *K. Barringer 22231*

Sussex: *E. Lawton 1038* (WTU)

Warren: *W. Benner 8334* (PH)

**A. angustatum** (Bridel) Bruch & Schimper, lesser smooth-cap, slender starburst

[G5, SNR (secure)]

capsules: spring - summer

disturbed, exposed soil, roadbanks

Atlantic: *B. Long 1632* (NY)



Bergen: *E. Kiviat s.n.*, 1 Jul 2005 (Hudsonia)  
Burlington: *M. Robertson 7295* (PH)  
Camden: *C. Darigo 4574* (MO)  
Cape May: *W. Taylor 1186* (DUKE)  
Cumberland: *B. Long 1053* (PH)  
Essex: *R. True 1702* (PH)  
Gloucester: *C. Lippincott 93-2* (PH)  
Hudson: *E. Kiviat s.n.*, 13 Feb 2004 (Hudsonia)  
Hunterdon: *W. Buck 22223* (NY)  
Mercer: *K. Macloskie s.n.* (NY)  
Monmouth: *G. Tees 720* (PH)  
Morris: *J. Wein 2230* (PH)  
Ocean: *G. Smith 2459* (NY)  
Passaic: *E. Moul s.n.*, 14 Jul 1950 (CHRB)  
Salem: *B. Long 715* (PH)  
Somerset: *E. Moul 6645* (F)  
Sussex: *T. Zanoni 10A* (MO)  
Union: *J. McCormick s.n.*, 9 Nov 1953 (CHRB, PH)  
Warren: *E. Frank NJ287* (CHRB)

***A. crispulum* Bescherelle**, crispy starburst

[G5, SNR (probably secure)]

capsules: summer

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

ecoregions: piedmont

Bergen: *A. Grout s.n.*, 8 Nov 1907 (DUKE)  
Hudson: *C. Austin s.n.*, Apr 1866 (DUKE)  
Hunterdon: *G. Tees 587* (PH)  
Sussex: *T. Zanoni Z7* (MO)  
Warren: *G. Smith 2414* (NY)

***A. crispum* (James) Sullivan**, fountain smooth-cap

[Gr, SNR (secure)]

capsules: spring-summer

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

ecoregions: coastal plain and piedmont

Atlantic: *J. Small s.n.*, 16 May 1893 (MO)  
Bergen: *E. Kiviat s.n.*, 28 Apr 2008 (Hudsonia)  
Burlington: *M. Robertson 7674* (PH)  
Camden: *T. James s.n.* (F, FH, MO, NY, PH, YU)  
Cumberland: *B. Long 1160* (PH)  
Essex: *H. Habeeb 3332* (MT)  
Gloucester: *B. Long 822* (PH)  
Hudson: *E. Kiviat s.n.*, 4 Oct 2013 (Hudsonia)  
Hunterdon: *W. Buck 22186* (NY)  
Mercer: *K. Barringer 9366* (BKL)

Middlesex: *E. Moul 6106* (CHRB, PH)  
Monmouth: *J. Small s.n.*, 16 May 1893 (CHRB, DUKE, MIN, MO, NY)  
Ocean: *A. Hoiberg s.n.*, 13 Nov 1960 (DUKE)  
Salem: *M. Robertson 2677* (PH)  
Somerset: *E. Moul 7206* (CHRB, NY)

*Atrichum oerstedianum* (Müll. Hal.) Mitten - see *A. crispulum* or *A. altecristatum*  
*Atrichum undulatum* (Hedw.) P. Beauv. – ours are *A. altecristatum*

#### **Aulacomnium** (Aulacomniaceae)

*A. androgynum* (Hedwig) Schw. – not in NJ *fide* FNA

*A. heterostichum* (Hedwig) Bruch & Schimper – see *Arrhenopterum heterostichum*

***A. palustre*** (Hedwig) Schwägrichen, ribbed bog moss, bog bead-moss

[G5, SNR (secure)]

capsules: summer

on soil in swamps, ditches, disturbed bogs

ecoregions: throughout, except coastal

Atlantic: *D. Evert s.n.*, 7 Jun 1962 (PH)

Bergen: *C. Austin s.n.*, [*Musci App.* 278] (BKL, CAL, DUKE, MO, NY)

Burlington: *E. Moul 7848* (CHRB, PH)

Camden: *G. Kaiser s.n.*, Apr 1904 (DUKE, PH)

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

Cumberland: *B. Long 1091* (CHRB, COLO, ISC, MSC, PH)

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

Gloucester: *B. Long 1930* (PH)

Hudson: *E. Kiviat s.n.*, 11 Jan 2010 (Hudsonia)

Hunterdon: *W. Buck 22242* (NY)

Mercer: *M. Carriker & E. Moul 7342* (F)

Middlesex: *W. Wiegmann s.n.* 30 May 1914 (NY, NYS)

Monmouth: *G. Tees 730* (PH)

Morris: *K. Barringer & J. Rosenbaum 28041* (CHRB, PH)

Ocean: *E. Bartram 914* (FH)

Passaic: *K. Barringer 24930*

Salem: *M. Robertson s.n.*, 13 May 1967 (PH)

Sussex: *G. Tees 1126* (PH)

Union: *W. Trask 93* (CONN)

Warren: *R. Schaeffer s.n.*, 18 Jun 1953 (PH)

#### **Barbula** (Pottiaceae)

***B. convoluta*** Hedwig, beard-moss, bear-claw moss

[G5, SNR (probably secure)]

capsules: spring and early summer

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

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

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

Hudson: *C. Austin s.n.*, 1868 (NY)  
Middlesex: *Hoheck 406* (BRIT)  
Ocean: *s.l. s.n.*, 8 Apr 1906 (DUKE)  
Sussex: *C. Reed 133594* (MO)

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

*B. unguiculata* Hedwig, bird's claw beard-moss, prickly beard-moss  
[G5, SNR (secure)]

capsules: winter - early spring

disturbed sites on ground, sand, gravel, even walls

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

Bergen: *E. Kiviat s.n.*, 12 Sep 2006 (Hudsonia)

Burlington: *H. Koster B9* (DUKE, ISC, MO, NY, UBC, VSC)

Cumberland: *B. Long 1806* (PH)

Hudson: *E. Kiviat s.n.*, 16 Jun 2009 (Hudsonia)

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

Ocean: *M. Robertson 3184* (PH)

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

Somerset: *E. Moul 61-80* (CHRB)

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

Warren: *R. Schaeffer 59* (PH)

### *Bartramia* (Bartramiaceae)

*B. pomiformis* Hedwig, apple moss

[G5, SNR (probably secure)]

capsules: May-June

on soil in moist forests, occasionally on bases of trees

Bergen: *E. Kiviat s.n.*, 29 Mar 2010 (Hudsonia)

Burlington: *K. Barringer 16435* (BKL)

Cumberland: *B. Long 1458* (DUKE, ISC, NY)

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

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

Hunterdon: *E. Moul 6804* (CHRB, PH)

Mercer: *W. Rankin s.n.*, 3 Apr 1886 (NY)

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

Morris: *I. Henley s.n.*, 1940 (ISC)

Ocean: *A. Grout s.n.*, 11 Apr 1906 (DUKE)

Passaic: *N. Britton s.n.* 23 Apr 1886 (CHRB)

Somerset: *W. Wiegmann 102* (NY, NYS)

Sussex: *E. Lawton s.n.*, 29 Apr 1951 (BRIT, WTU)

Union: *E. Moul 7963* (CHRB)

Warren: *C. Reed 46699* (BRIT)

### *Brachytheciastrum* (Brachytheciaceae)

*B. velutinum* (Hedwig) Ignatov & Huttunen, velvet ragged moss

[G5, SNR (secure)]

capsules: fall - spring

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

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

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

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

Salem: *C. Reed 133964* (MO)

Sussex: *K. Barringer 18097* (BKL)

Union: *W. Trask 100* (CONN)

### ***Brachythecium*** (Brachytheciaceae)

#### ***B. acuminatum* (Hedwig) C. Austin**, sharp-tipped foxtail-moss

[G5, SNR (secure)]

capsules: fall - early winter

Bergen: *C. Austin s.n.* Nov 1875 (DUKE)

Burlington: *M. Robertson 4427* (PH)

Cape May: *A. Grout s.n.*, 9 Apr 1929 (DUKE)

Cumberland: *B. Long 853* (PH)

Gloucester: *B. Long 1062* (PH)

Hunterdon: *G. Best s.n.*, 11 Dec 1896 (DUKE)

Monmouth: *B. Long 2333* (PH)

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

Salem: *B. Long 1419* (PH)

Sussex: *T. Githens 3679* (PH)

Warren: *M. Robertson 4464* (PH)

#### ***B. acutum* (Mitten) Sullivant**, acute ragged-moss

[G5, SNR (probably secure)]

capsules: fall

on bark at base of trees and in various disturbed habitats

Atlantic: *C. Reed 134382* (MO)

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

Burlington: *D. Evert 75* (PH)

Cape May: *C. Reed 134458A* (MO)

Cumberland: *C. Reed 134173* (MO)

Hudson: *E. Kiviak s.n.*, 27 Feb 2002 (Hudsonia)

Hunterdon: *W. Buck 22219* (NY)

Passaic: *D. Levy s.n.*, 13 Jun 1915 (DUKE)

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

#### ***B. campestre* (Müll. Hal.) Schimper**, field ragged-moss, lawn moss, golden foxtail

[G5, SNR (probably secure)]

capsules: fall

on soil and rocks in moist areas, limed lawns

Bergen: *C. Austin s.n.*, [*Musci App.* 315] (CAS, NEB, NY, PH)

Burlington: *H. Koster 1321* (DUKE, ISC, MO, NY, TENN, WIS, WTU)

Hudson: *C. Austin s.n.*, 1866 (NY)  
Hunterdon: *G. Best s.n.*, 4 Nov 1897 (DUKE, NY)  
Morris: *C. Austin s.n.*, Aug 1867 (NY)  
Sussex: *H. Habeeb & E. Moul 3700* (UBC)

*B. digastrum* Müll. Hal. & Kindberg – see *B. laetum*

***B. laetum* (Bridel) Schimper**, long-capsuled ragged-moss, pleated foxtail-moss

[G5, SNR (secure)]

capsules: late fall - winter

on rocks, on soil and tree bases in woods

Bergen: *E. Kiviat s.n.*, 14 Nov 2013 (Hudsonia)  
Camden: *W. Longbottom 12418* (MO)  
Cumberland: *C. Reed 133972* (MO)  
Hudson: *E. Kiviat s.n.*, 15 Sep 2004 (Hudsonia)  
Hunterdon: *W. Buck 22248* (NY)  
Middlesex: *C. Reed 134127* (MO)  
Monmouth: *C. Reed 134699* (MO)  
Morris: *C. Austin s.n.*, Aug 1867 (NY)  
Salem: *C. Reed 133972* (MO)  
Sussex: *C. Reed 133648* (MO)  
Union: *G. Bard s.n.*, 27 Oct 1951 (NY)  
Warren: *W. Buck 21603* (NY)

*B. oxycladon* (Bridel) A. Jaeger – see *B. laetum* or *B. acuminatum*

*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**, stream foxtail, river ragged-moss

[G5, SNR (secure)]

capsules: fall

On rocks and soil near streams and springs

Bergen: *E. Kiviat s.n.*, 6 Dec 2016 (Hudsonia)  
Hudson: *E. Kiviat s.n.*, 11 Jan 2010 (Hudsonia)  
Hunterdon: *W. Buck 22192* (NY)  
Passaic: *C. Austin s.n.*, 1867 (NY)  
Morris: *R. Miller 1365* (NY)  
Sussex: *H. Habeeb 3565* (NYS)  
Union: *W. Trask 202* (CONN)  
Warren: *I. Henley s.n.*, Jul 1940 (BRIT, ISC, NY)

***B. rutabulum* (Hedwig) Schimper**, rough-stalked feather-moss, rough-stalked ragged-moss

[G5, SNR (secure)]

capsules: winter

on various substrates in moist, shaded sites

Bergen: *E. Kiviat s.n.*, 12 Sep 2008 (Hudsonia)  
Cumberland: *B. Long s.n.*, 24 Jun 1934 (PH)  
Essex: *M. Robertson 6490* (PH)

Hudson: *E. Kiviak s.n.*, 5 Sep 2015 (Hudsonia)  
Hunterdon: *W. Buck 22238* (NY)  
Middlesex: *K. Barringer 17898* (BKL)  
Morris: *H. Habeeb 3250* (NYS, UBC)  
Ocean: *M. Robertson 4297* (PH)  
Passaic: *C. Austin s.n.*, 1867 (NY)  
Salem: *B. Long s.n.*, 22 Feb 1935 (PH)  
Somerset: *K. Barringer 20715* (BKL)  
Sussex: *E. Bartram 101* (FH, NYS)  
Warren: *E. Bartram 467* (FH)

*B. salebrosum* (F. Weber & D. Mohr) Schimper – ours are *B. acutum* or *B. campestre*

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

*B. velutinum* (Hedwig) Schimper – see *Brachytheciastrum velutinum*

### **Brotherella** (Pylaisiadelphaceae)

***B. recurvans* (Michaux) M. Fleischer**, satin moss

[G5, SNR (probably secure)]

capsules: late autumn

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

Bergen: *D. Levy 1219* (DUKE)  
Burlington: *L. Stair s.n.*, 7 Sep 1940 (MICH, PH)  
Essex: *H. Habeeb 3182* (UBC)  
Gloucester: *C. Austin s.n.*, 1861 (MO)  
Hudson: *C. Austin s.n.*, Sep 1867 (NY)  
Hunterdon: *G. Best s.n.*, 1893 (NY)  
Middlesex: *W. Wiegmann s.n.*, 22 Jun 1913 (NY)  
Monmouth: *A. Beals s.n.*, 14 May 1933 (NY)  
Ocean: *C. Austin s.n.*, 1868 (NY, WTU)  
Passaic: *G. Tees 1107* (NY, PH)  
Salem: *B. Long s.n.* 22 Apr 1934 (PH)  
Sussex: *W. Buck 21550* (NY)  
Union: *W. Trask 190* (CONN)  
Warren: *E. Moul 62-153* (CHRB)

### **Bruchia** (Bruchiaceae)

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

[G4, SNR (probably secure)]

capsules: spring-summer

moist soil among grasses

Bergen: *G. Nearing s.n.*, 4 Jun 1944 (NY)  
Burlington: *D. Lane 1052* (CNC, DUKE, MIN, MO, MSC, MU, TENN, UBC)  
Camden: *C. Austin s.n.*[*Musci App.*56] (CAS, MICH, NEB, NY, NYS)  
Cumberland: *B. Long 1444* (PH)

Essex: *H. Habeeb* 3774 (F, MT, NYS)  
Gloucester: *A. Rau s.n.*, Jun 1882 (NY)  
Mercer: *T. James s.n.*, May 1850 (FH, NY)  
Monmouth: *A. Beals* 1676x (DUKE, MO, NY)  
Passaic: *A. Beals* 1641x (DUKE, NY)

***Bryhnia*** (Brachytheciaceae)

***B. graminicolor* (Bridel) Grout**, pale mat-moss

[G5, SNR (probably rare)]

moist soil or rock in limestone region

Hunterdon: *W. Buck* 22190 (NY)

Sussex: *E. Frank* NJ-57 (CHRB)

Warren: *R. Schaeffer s.n.*, 25 Jun 1948 (PH)

***B. novae-angliae* (Sullivant & Lesquereux) Grout**, bonsai moss, New England mat-moss

[G5, SNR (probably secure)]

capsules: fall - winter

wet soil, shaded spots along streams

Bergen: *E. Kiviat s.n.*, 18 Oct 2008 (Hudsonia)

Burlington: *M. Robertson s.n.*, 10 Sep 1960 (PH)

Cumberland: *B. Long* 1041 (PH)

Essex: *H. Habeeb* 3041 (NYS)

Gloucester: *C. Reed* 136131 (MO)

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

Mercer: *G. Tees* 77 (NY)

Morris: *I. Henley s.n.*, Jul 1940 (BRIT, NY)

Salem: *B. Long s.n.* 3 Mar 1935 (PH)

***Bryoandersonia*** (Brachytheciaceae)

***B. illecebra* (Hedwig) H. Robinson**, spoonleaf moss, worm moss, Dr. Anderson's moss

[G5, SNR (secure)]

capsules: fall

on soil and on tree bases in oak woods, often disturbed sites

Atlantic: *B. Long* 2166 (PH)

Bergen: *E. Kiviat s.n.*, 28 Apr 2008 (Hudsonia)

Burlington: *B. Long* 1493 (PH)

Cape May: *B. Long* 1687 (PH)

Cumberland: *B. Long* 1146 (DUKE, ISC, NY, PH)

Essex: *A. Beals s.n.*, 1930 (NY)

Hunterdon: *G. Tees* 591 (PH)

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

Monmouth: *B. Long* 1581 (PH)

Morris: *K. Barringer & J. Rosenbaum* 28199 (CHRB, PH)

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

Passaic: *K. Barringer* 20598 (BKL, CAS, DUKE, NY, VT)

Salem: *B. Long 1589* (PH)  
Somerset: *E. Moul 7301* (NY)  
Sussex: *H. Fischer s.n.*, 20 Mar 1897 (DUKE)  
Union: *G. Bard s.n.*, 27 Oct 1951 (NY)  
Warren: *D. Evert s.n.*, 16 May 1962 (PH)

***Bryoerythrophyllum*** (Pottiaceae)

***B. recurvirostre* (Hedwig) P. C. Chen**, red beard-moss

[G5, SNR (historic, probably rare)]

capsules: summer - fall

on soil, limestone, and cement

Somerset: *E. Moul 6640* (PH)

Sussex: *E. Bartram 697* (DUKE, FH)

***Bryohaplocladium*** (Leskeaceae) – see *Haplocladium*

***Bryum*** (Bryaceae)

***B. algovicum* Müll. Hal.** – see *Ptychostomum pendulum*

on wet sand, dune swales

***B. argenteum* Hedwig**, silvery moss, silver moss

[G5, SNR (secure)]

capsules spring - early summer

on soil in open disturbed sites

Bergen: *E. Kiviat s.n.*, 22 Jan 2004 (Hudsonia)

Burlington: *M. Robertson 4626* (PH)

Cumberland: *B. Long 1276* (PH)

Essex: *K. Barringer 18261* (BKL)

Gloucester: *B. Long 2943* (PH)

Hudson: *E. Kiviat s.n.*, 22 Nov 2014 (Hudsonia)

Hunterdon: *H. Fisher s.n.*, 1891 (NY)

Mercer: *M. Rex 6195* (PH)

Middlesex: *C. Reed 134705* (MO)

Monmouth: *L. Anderson s.n.* (DUKE)

Morris: *T. Delendick s.n.*, 28 May 1900 (BKL)

Ocean: *B. Long 3000* (PH)

Passaic: *O. Thompson 413* (WIS)

Salem: *B. Long 1191* (PH)

Somerset: *E. Moul 7147* (CHRB, PH)

Sussex: *F. Drouet & H. Herpers 3681* (PH)

Warren: *G. Tees 712* (PH)

***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 – western, not in NJ  
*B. uliginosum* (Bridel) Bruch & Schimper - see *Ptychostomum cernuum*

***Bucklandiella*** (Grimmiaceae)

- B. microcarpa* (Hedwig) Bednarek-Ochyra & Ochyra**, small-fruited rock-moss  
 [G5, SNR (probably rare)]  
 on acid rocks, cliffs, especially in late snow areas, underhangs of cliffs  
*fide* FNA  
***B. venusta* (Frisvoll) Bednarek-Ochyra & Ochyra**, Appalachian rock-moss  
 [GNR, SNR (historic, probably rare)]  
 on acid rocks, cliff faces and bluffs, exposed, dry  
 Bergen: *C. Austin s.n., s.d.* (NY)

***Buxbaumia*** (Buxbaumiaceae)

- B. aphylla* Hedwig**, bug on a stick  
 [G5, SNR (probably secure)]  
 capsules: late Spring-Fall  
 usually on soil or rotting wood in well-lit, usually disturbed sites, roadsides, trailsides  
 Atlantic: *B. Long 1238* (DUKE, PH)  
 Bergen: *C. Austin s.n.*, Jun 1893 (BKL, NY)  
 Burlington: *H. Koster s.n.*, 10 Apr 1937 (NY)  
 Camden: *B. Long 1949* (PH)  
 Cape May: *B. Long 1543* (DUKE, PH)  
 Cumberland: *B. Long 1510* (DUKE, PH)  
 Gloucester: *B. Long 1514* (DUKE, PH)  
 Hunterdon: *G. Best s.n.*, 20 Jun 1892 (NY)  
 Middlesex: *B. Long 2925* (PH)  
 Monmouth: *B. Long 2256* (PH)  
 Ocean: *G. Tees 1366* (DUKE, ISC, PH)  
 Passaic: *A. Northrup s.n.*, 9 Nov 1919 (NY)  
 Salem: *B. Long 2118* (PH)  
 Warren: *S. Knipe s.n.*, Oct 1884 (CHRB, NY)

***Callicladium*** (Hypnaceae)

- C. haldanianum* (Greville) Crum**, sword moss  
 [G5, SNR (secure)]  
 capsules: fall – early winter  
 on rotting wood or on tree bark, esp. at edges of woods  
 Atlantic: *C. Reed 134017* (MO)

Bergen: *E. Kiviak s.n.*, 26 Sep 2008 (Hudsonia)  
Burlington: *M. Robertson 7704* (PH)  
Cape May: *J. Fox 669* (PH)  
Cumberland: *B. Long 596* (NY, PH)  
Hudson: *E. Kiviak s.n.*, 22 Mar 2005 (Hudsonia)  
Hunterdon: *E. Moul 7831* (CHRB)  
Middlesex: *W. Wistendahl 6* (CHRB)  
Monmouth: *C. Reed 134679* (MO)  
Mercer: *B. Long 1599* (PH)  
Morris: *K. Barringer 18236* (BKL, DUKE, NY, VT)  
Ocean: *A. Hoiberg 53c* (CHRB)  
Passaic: *G. Eiten 1277* (NY)  
Salem: *C. Reed 134070* (MO)  
Sussex: *E. Frank NJ-163* (CHRB)  
Union: *K. Barringer 20076* (BKL)  
Warren: *E. Moul 6183* (CHRB)

*C. imponens* (Hedw.) Hedenas, Schlesak, & D. Quant = *Hypnum imponens*

#### **Calliergon** (Calliergonaceae)

***C. cordifolium* (Hedwig) Kindberg**, heart-leaved spear-moss

[G5, SNR (probably secure)]

Moist to wet nutrient-rich sites, along streams and ditches, swamps.

Bergen: *D. Levy 2700* (DUKE)

Hudson: *C. Austin s.n.*, 1865 (BKL, NY)

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

Morris: *M. Robertson 7109* (PH)

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

***C. giganteum* (Schimper) Kindberg**, giant spear-moss

[G5, SNR (historic, probably rare)]

Calciphile, emergent of slightly submerged in shallow puddles or ditches.

Morris: *A. Rau s.n.*, 5 July 1877 (OS)

Sussex: *A. Garber s.n.*, Jul 1871 (ISC, NY)

Warren: *N. Miller 10103* (NYS)

#### **Calliergonella** (Hypnaceae)

***C. curvifolium* (Hedwig) B. H. Allen** – see *Hypnum curvifolium*

***C. cuspidata* (Hedwig) Loeske**, beech-bud moss

[G5, SNR (probably rare)]

capsules: late spring – summer

Calciphile, wetlands, rich fens, lawns and sedge meadows.

Warren: *D. Evert 4431* (PH)

***C. lindbergii* (Mitt.) Hedenas** – see *Hypnum lindbergii*

**Campyliadelphus** (Amblystegiaceae)

**C. chrysophyllus (Bridel) H. Kandra**, golden star-moss, bristly-star moss

[G5, SNR (probably secure)]

capsules: spring – early summer

Moist to wet, calcareous or at least mineral rich soil in woods.

Atlantic: *D. Evert 4432* (PH)

Bergen: *W. Wiegmann 22* (BKL, NY)

Burlington: *L. Stair s.n.* 28 Apr 1940 (PH)

Camden: *G. Kaiser s.n.*, 19 Apr 1913 (PH)

Cumberland: *B. Long 592* (PH)

Gloucester: *C. Lippincott 128* (PH)

Hunterdon: *G. Best s.n.* 23 May 1893 (NY)

Monmouth: *B. Long 594a* (PH)

Morris: *H. Habeeb 3362* (F)

Salem: *B. Long 950* (PH)

Sussex: *E. Bartram s.n.*, 21 Oct 1922 (FH)

Warren: *M. Robertson 5965* (PH)

**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**, creeping star-moss, starry fen-moss

[G5, SNR (probably rare)]

capsules: spring

On wet soil in rich fen and calcareous meadows

Bergen[?]: *C. Austin s.n.*, [*Musci App.* 400] (BKL, NEB, NY)

Sussex: *W. Wiegmann s.n.*, 20 Jun 1916 (NY, NYS, PH)

Warren: *N. Miller 101112* (NYS)

**Campylophyllum** (Hypnaceae)

**C. hispidulum (Bridel) L. Hedenäs**, fine wet moss

[G5, SNR (probably secure)]

On soil, tree trunks, and decaying wood in woods.

Atlantic: *C. Reed 134015A* (MO)

Bergen: *W. Wiegmann 22* (NY)

Burlington: *T. Zanoni 4874* (NY)

Cape May: *B. Long 1230* (PH)

Cumberland: *B. Long 694* (PH)

Hudson: *N. Britton s.n.*, 7 Nov 1882 (NY)

Hunterdon: *W. Buck 22236* (NY)

Monmouth: *D. Levy 599*. (DUKE)

Morris: *C. Reed 74973* (MO)

Ocean: *M. Robertson 5737* (PH)  
Passaic: *K. Barringer 18073* (BKL)  
Somerset: *W. Wistendahl 1235* (CHRB)  
Sussex: *W. Wiegmann 168* (BKL, NY)  
Warren: *A. Beals s.n.*, 11 Sep 1938 (NY)

***Campylopus*** (Leucobryaceae)

***C. carolinae* Grout**, savanna moss  
[G2, SNR (historic, probably incorrectly identified)]  
in dry, white sand  
Ecoregions: Outer coastal plain, coast  
Ocean: *J. Kekes 3001* (MO, PH, NY)

***Campylostelium*** (Ptychomitriaceae)

***C. saxicola* (F. Weber & D. Mohr) Bruch & Schimper**, swan-neck moss  
[G4, SNR (historic, probably rare)]  
capsules Oct-May  
on shaded sandstone, gneiss, or granite boulders and cliffs in woods  
Bergen: *C. Austin s.n.* [*Musci App.* 109] (BKL, FH, MU, NEB, NY, PH, WIS)

***Ceratodon*** (Ditrichaceae)

***C. purpureus* (Hedwig) Bridel**, purple moss, roof moss  
[G5, SNR (secure)]  
capsules: summer-fall  
on soil in openings, rock outcrops and burned sites  
Atlantic: *M. Robertson 2050* (PH)  
Bergen: *E. Kiviat s.n.*, 12 Jan 2010 (Hudsonia)  
Burlington: *C. Mann 4426* (PH)  
Camden: *M. Robertson 4929* (PH)  
Cape May: *M. Robertson 4249* (PH)  
Cumberland: *C. Reed 133978* (MO)  
Essex: *H. Miller s.n.*, s.d. (MU)  
Gloucester: *B. Long 928* (PH)  
Hudson: *E. Kiviat s.n.*, 22 Nov 2014 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 1894 (NY)  
Middlesex: *H. Webster 68160* (TENN)  
Monmouth: *E. Moul 6693* (PH)  
Morris: *K. Holmen & M. Martin s.n.*, 14 Jun 1967 (UBC)  
Ocean: *B. Long 1863* (PH)  
Passaic: *G. Nash s.n.*, 24 Apr 1890 (DUKE, NY)  
Salem: *M. Robertson 4071* (PH)  
Somerset: *W. Wistendahl 32* (CHRB)  
Sussex: *E. Moul 576* (CHRB)  
Warren: *E. Frank NJ-22* (CHRB)

**Cirriphyllum** (Brachytheciaceae)

**C. piliferum (Hedwig) Grout**, moustache moss

[G5, SNR (historic, probably extirpated)]

on soil in wet shaded places, swamps

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

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

**Claopodium** (Anomodontaceae)

**C. rostratum (Hedwig) Ignatov** - see *Anomodon rostratus*

**Clasmatodon** (Brachytheciaceae)

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

**Cleistocarpidium** (Ditrichaceae)

**C. palustre (Bruch & Schimper) Ochyra & H. Bednarek-Ochyra**, marsh pygmy moss

[G5, SNR (historic, probably extirpated)]

capsules: May - Jun

on wet sand in coastal plain swamps, pine barrens swamps

Camden: *T. James s.n.* 25 Apr 1853 [*Musci Bor. Amer.* 51b] (DUKE, MO, NY, WIS)

**Climacium** (Climaciaceae)

**C. americanum Bridel**, tree moss

[G5, SNR (secure)]

capsules: fall

swamps and wet woods

ecoregions: widespread

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

Cape May: *J. Bernard* 1689 (CHRB)

Cumberland: *B. Long* 1281 (DUKE, FH, NY, PH)

Essex: *W. Wiegmann* 758 (NY)

Hunterdon: *W. Buck* 22235 (NY)

Ocean: *B. Long* 66829 (PH)

Mercer: *C. Lane s.n.*, 1874 (OS)

Morris: *K. Barringer & J. Rosenbaum* 28051 (CHRB, PH)

Passaic: *F. Merrill* 1315 (CHRB)

Salem: *C. Reed* 134152 (MO)

Somerset: *J. McCormick s.n.*, 19 Mar 1954 (CHRB, PH)

Sussex: *K. Barringer* 20590 (BKL, CAS, DUKE, NY)

Union: *G. Bard s.n.*, 27 Oct 1951 (NY)

Warren: *W. Buck* 21588 (NY)

**C. dendroides (Hedwig) F. Weber & D. Mohr**, tree moss, palm-tree moss

[G5, SNR (possibly rare)]

capsules: fall

swamps, watersides  
ecoregions: Ridge and Valley

Bergen[?]: *C. Austin s.n.*, Oct 1865 (NY)

Warren: *R. Schaeffer 40* (NY)

*C. kindbergii* (Renauld & Cardot) Grout – see *C. americanum*

### **Codriophorus** (Grimmiaceae)

*C. acicularis* (Hedwig) P. Beauvois, black tufted rock-moss, boulder moss

[G5, SNR (historic, probably extirpated)]

moist to wet acid, or rarely calcareous, rocks, especially in or near streams

Bergen: *C. Austin s.n.* [*Musci App.* 147] (PH, MICH, NY)

Warren: *E. Bartram & E. Chamberlain 1049* (FH)

*C. aduncoides* (Bednarek-Ochyra) Bednarek-Ochyra & Ochyra, cascade moss

[GNR, SNR (historic, rare if extant)]

wet, acidic boulders in streams or on dripping cliffs, sometimes submerged in cascades

Somerset: *A. Beals 1964* (DUKE)

### **Cratoneuron** (Amblystegiaceae)

*C. filicinum* (Hedwig) Spruce, fern-leaved hook-moss

[G5, SNR (historic, probably rare)]

on wet soil above streams and springs in limestone regions

Passaic: *G. Nash s.n.*, May 1890 (NY)

Sussex: *E. Bartram 699* (FH)

Warren: *N. Britton s.n.*, 4 Aug 1885 (CHRB)

### **Cryphaea** (Cryphaeaceae)

*C. glomerata* Sullivant

[G5, SNR (probably rare)]

capsules: Sep-Jun

on twigs, branches and trunks of deciduous trees and shrubs

Bergen[?]: *C. Austin s.n.* [*Musci App.* 253] (CAS, MICH. MO, MU, PH, WIS)

Hunterdon: *W. Buck 22227* (NY)

### **Ctenidium** (Hylacomniaceae)

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

*C. molluscum* (Hedwig) Mitten, comb-moss

[G5, SNR (secure)]

capsules: summer

on soil or rotting wood in swamps

ecoregions: Piedmont, highlands, ridge and valley

Bergen: *W. Wiegmann 166* (NY)

Hudson: *s.l. s.n.*, Apr 1868 (NY)

Hunterdon: *W. Buck 22237* (NY)

Morris: *I. Henley s.n.*, Jun 1940 (ISC)

Passaic: *K. Barringer 20548* (BKL)  
Sussex: *E. Bartram 107* (DUKE, FH, MO, NYS)  
Warren: *M. Robertson 5686* (PH)

*C. subrectifolium* (Bridel) **Buck & B. Allen** – see *C. molluscum*

**Cyrto-hypnum** (Thuidiaceae)

***C. minutulum* (Hedwig) Buck & Crum**, tiny cedar-moss, tiny fern-moss

[G5, SNR (probably rare)]

capsules: Feb-Aug

moist woods on rotting logs or limestone rocks

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

Salem: *C. Lippincott 128-6* (PH)

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

Warren: *M. Robertson 7123* (PH)

***C. pygmaeum* (Schimper) Buck & Crum**, pygmy cedar-moss

[G4, SNR (probably rare)]

capsules: Jul-Sep

on moist rocks and soil in limestone woods

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

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

Warren: *E. Beals s.n.*, 11 Sep 1938 (DUKE, ISC, MICH, MO, NY)

**Desmatodon** (Pottiaceae)

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

**Dichelyma** (Fontinalaceae)

***D. capillaceum* (Withering) Myrin** hairlike claw-moss

[G5, SNR (probably rare)]

in swamps on roots and tree bases where periodically submerged

Bergen: *D. Levy 17427* (DUKE)

Morris: *K. Barringer 28410* (CHRB, PH)

Union: *G. Bard s.n.*, 27 Oct 1951 (NY)

Warren: *D. Evert 44* (PH)

**Dichodontium** (Dicranaceae)

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

[G5, SNR (historic, probably extirpated)]

capsules: late fall-spring

moist exposed soil or rocks, especially near streams

Essex: *s.l. s.n.*, 9 Aug 1896 (DUKE)

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

Sussex: *C. Austin s.n.* [*Musci App.* 76] (NEB, NY, PH)

**Dicranella** (Dicranaceae)

***D. cerviculata* (Hedwig) Schimper**, forklet moss

[G5, SNR]

capsules: summer

disturbed soil, especially roadsides

Hudson: *A. Gray & W. Sullivant 167* (NY, PH)

Hunterdon: *B. Tan 1542* (NY)

Monmouth: *D. Levy 2119* (DUKE, FLAS)

***D. heteromalla* (Hedwig) Schimper**, silky forklet-moss, silky hair-moss

[G5, SNR (secure)]

capsules: spring & summer

shaded soil banks, along trails and on upturned roots

Atlantic: *M. Robertson 4245* (PH)

Bergen: *E. Kiviat s.n.*, 8 Nov 2004 (Hudsonia)

Burlington: *M. Robertson 3358* (PH)

Camden: *M. Robertson 4037* (PH)

Cape May: *M. Robertson 2080* (PH)

Cumberland: *B. Long 766* (PH)

Essex: *W. Wiegmann 263* (NY)

Gloucester: *B. Long 921* (PH)

Hudson: *E. Kiviat s.n.*, 22 Mar 2005 (Hudsonia)

Hunterdon: *J. Cantlon s.n.*, 24 Sep 1949 (CHRB, PH)

Mercer: *G. Tees 575* (PH)

Middlesex: *E. Moul 7297* (CHRB, NY, PH)

Monmouth: *A. Grout s.n.*, 12 Nov 1927 (BRIT, BYU, F, FH, ISC, MT, NY, UBC, YU)

Morris: *C. Reed 75242* (MO)

Ocean: *M. Robertson 3075* (PH)

Passaic: *R. Clausen & A. Clausen 4537* (NY)

Salem: *M. Robertson 2694* (PH)

Somerset: *J. Baird 1653* (CHRB)

Sussex: *F. Drouet & H. Herpers 3677* (F, MICH)

Union: *W. Wiegmann 55* (NY)

Warren: *E. Laeger 2148* (CAS, NY)

***D. rufescens* (Withering) Schimper**, red forklet-moss

[G5, SNR (probably secure)]

capsules: spring-summer

wet soil of roadbanks and streambanks

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

Cape May: *B. Long 678* (PH)

Hunterdon: *G. Best s.n.*, 25 Nov 1896 (NY, PH, WIS)

Union: *A. Beals s.n.*, 2 Sep 1923 (FH)

Somerset: *W. Wistendahl 1140* (CHRB)

Sussex: *E. Lawton 941* (NY, WTU)

***D. schreberiana* (Hedwig) Hilferty**, Schreber's forklet-moss



[G5, SNR (probably rare)]

capsules: fall

wet soil on roadbanks, rock crevices

Sussex: *E. Bartram 693* (DUKE, FH, MIN)

***D. varia* (Hedwig) Schimper**, variable forklet-moss

[G5, SNR (probably secure)]

capsules: spring

wet, calcareous soil, especially disturbed sites

Morris: *C. Austin s.n.*, Nov 1865 (NY)

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

Sussex: *H. Habeeb 3557* (F, NYS)

Warren: *E. Lawton 1025* (MIN)

*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**, coastal plain fork-moss

[G5, SNR (probably secure)]

capsules: spring

exposed sand

Burlington: *B. Allen 16871* (MO, NY)

Camden: *M. Robertson 3376* (DUKE, PH)

Cumberland: *M. Robertson 3144* (PH)

Cape May: *W. Taylor 203* (DUKE)

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

Monmouth: *J. Small S-128* (FLAS, MICH, NY, PH, TENN)

Middlesex: *N. Britton s.n.*, 21 Apr 1883 (CHRB)

Ocean: *B. Long 2229* (DUKE, WTU)

Salem: *B. Long 1273* (DUKE, PH)

***D. flagellare* Hedwig**, asparagus moss, whip broom-moss

[G5, SNR (secure)]

capsules spring

Rotting wood or rarely soil

Atlantic: *M. Robertson s.n.*, 25 Jun 1963

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

Burlington: *H. Koster s.n., Feb 1939* (DUKE, ISC, NEB, NY, PH, UBC, WIS, WTC)

Camden: *M. Robertson 4210* (PH)

Cape May: *B. Long 868* (PH)

Cumberland: *B. Long 1292* (PH)

Essex: *N. Britton s.n.*, 18 Mar 1883 (CHRB)

Gloucester: *G. Tees 390* (PH)

Hudson: *C. Roell s.n.*, 1899 (NY, TRH)

Hunterdon: *G. Best s.n.*, Jun 1893 (NY)  
Mercer: *J. Allen s.n.* (FH)  
Middlesex: *R. Forman s.n.*, 24 Jan 1967 (OS)  
Monmouth: *D. Levy 2563* (DUKE)  
Morris: *E. Britton s.n.*, 20 Apr 1882 (NY)  
Ocean: *J. K. Small s.n.*, 14 Apr 1894 (DUKE, NY)  
Salem: *B. Long 961* (PH)  
Sussex: *E. Bartram, E. Chamberlain & A. Beals 6569* (FH, MICH)  
Warren : *M. Robertson 4456* (PH)

***D. fulvum* Hooker**, boulder broom-moss

[G5, SNR (secure)]

capsules: spring

rock outcrops and cliff faces, boulders

Bergen: *W. Wiegmann s.n.*, 9 Jul 1915 (DUKE, NY)  
Hudson: *G. Kaiser s.n.*, 31 Aug 1917 (DUKE)  
Hunterdon: *W. Buck 22183* (NY)  
Mercer: *T. James s.n.*, Nov 1850 (NY)  
Ocean: *B. Long 1762* (PH)  
Passaic: *K. Barringer 20517* (BKL)  
Sussex: *H. Habeeb 3451* (F, NYS)  
Union: *W. Trask 89* (CONN)  
Warren: *M. Robertson 5926* (PH)

***D. fuscescens* Turner**, curly broom-moss, dusky broom moss

[G5, SNR (probably secure)]

capsules spring, fall

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

Burlington: *P. Majestyk & A. Amtoft 2430* (NY)  
Cumberland: *B. Long 855* (PH)  
Hunterdon: *J. Cantlon 172* (CHRB)  
Morris: *E. T. Moul 62-98* (CHRB)  
Passaic: *K. Barringer 24927* (BKL)  
Sussex: *Bio-Ecology Class s.n.*, 27 Apr 1956 (CHRB)  
Warren: *R. L. Schaeffer 109* (PH)

***D. montanum* Hedwig**, crispy broom-moss, mountain broom-moss

[G5, SNR (secure)]

capsules: spring

rotting wood or occasionally on soil

Bergen: *E. Kiviat s.n.*, 26 Sep 2008 (Hudsonia)  
Burlington: *M. Robertson 8018* (PH)  
Cumberland: *B. Long 1448* (PH)  
Hudson: *s.l. s.n.*, Apr 1866 (NY)  
Hunterdon: *G. Best s.n.*, 25 Dec 1902 (DUKE, NY)  
Monmouth: *M. Robertson 7365* (PH)  
Morris: *E. Frank NJ-122* (CHRB)

Middlesex: *T. Zanoni 105* (MO)  
Passaic: *G. Tees 1114* (PH)  
Salem: *B. Long 1054* (PH)  
Sussex: *T. Nash s.n., 6 Feb 1968* (ASU)  
Union: *W. Trask 90* (CONN)  
Warren: *M. Robertson 5732* (PH)

***D. muehlenbeckii* Bruch & Schimper**, Mühlenbeck's broom-moss

[G5, SNR (historic, probably rare)]

capsules: summer

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

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

Sussex: *W. Wiegmann 141* (DUKE, NY)

***D. ontariense* Peterson**, Ontario broom-moss, Canada broom-moss

[G5, SNR (rare if extant)]

capsules spring

on soil in conifer woods or rarely in bogs, once in Catskills and Poconos, so maybe.

Ecoregion: Ridge and valley

*fide* FNA

***D. polysetum* Swartz**, wavy-leaved broom-moss, wrinkled broom-moss

[G5, SNR (probably secure)]

capsules: spring

on soil and rotting wood in conifer woods or swamps

Burlington: *B. Long 338* (PH)

Hudson: *C. Austin 97* (NY)

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

Ocean: *G. Tees 106* (PH)

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

***D. rhabdocarpum* Sullivant** – for ours see *D. montanum* or *D. viride*

***D. scoparium* Hedwig**, eyelash moss, windswept moss

[G4, SNR (secure)]

capsules spring-fall

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

Atlantic: *C. Reed 134253* (MO, NY)

Bergen: *E. Kiviat s.n., 19 Aug 2009* (Hudsonia)

Burlington: *J. McCormick 991* (CHRB)

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

Cape May: *E. Moul 6164* (CHRB)

Cumberland: *B. Long 1164* (NY, PH)

Essex: *N. Britton s.n., 28 Oct 1882* (CHRB)

Hudson: *N. Britton s.n., s.d.* (CHRB)

Hunterdon: *W. Buck 22224* (NY)

Middlesex: *E. Moul 6717* (CHRB)

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

Morris: *K. Barringer & J. Rosenbaum 24971* (CHRB)

Ocean: *M. Robertson 3076* (PH)  
Passaic: *K. Barringer 20674* (BKL, CAS, DUKE, NY, VT)  
Sussex: *E. Frank NJ-39* (CHRB)  
Warren: *E. Frank s.n., 9 Sep 1991* (CHRB)

***D. spurium* Hedwig**, rusty broom-moss

[G5, SNR (probably vulnerable)]

capsules: spring

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

Atlantic: *C. Reed 91938* (MO)

Burlington: *B. Allen 16876* (MO)

Cumberland: *B. Long 1573* (PH)

Middlesex: *N. Britton s.n., 29 Apr 1889* (CHRB)

Ocean: *N. Britton s.n., 1883* (CHRB)

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

Union: *W. Wiegmann 94* (NY)

Sussex: *C. Austin s.n., [Musci App. 96]* (BKL, MU, NEB, NY, NYS, PH, UBC, WIS)

Union: *E. Lawton 579* (WTU)

Warren: *C. Austin s.n., Oct 1867* (NY, NYS)

***D. undulatum* Bridel**, bog broom-moss

[G5, SNR (probably secure)]

capsules: spring

bogs, fens, swamps on soil or rotting wood

Bergen: *W. Wiegmann 107* (NY)

Burlington: *M. Gillett s.n., 18 Feb 1974* (CHRB)

Cumberland: *M. Robertson 3143* (PH)

Hunterdon: *G. Best s.n., 19 Jun 1897* (NY)

Morris: *C. Austin 93* (NY)

Ocean: *G. Tees 106* (PH)

Passaic: *K. Barringer 20487* (BKL)

Sussex: *G. Best s.n., 15 Apr 1896* (NY)

Warren: *M. Robertson 5927* (PH)

***D. viride* (Sullivant & Lesquereux) Lindberg**, brittle broom-moss

[G5, SNR (probably rare)]

capsules: spring

base of trees and stumps, rarely on rocks

Sussex: *H. Webster s.n. 23 Apr 1968* (CHRB)

***Didymodon*** (Pottiaceae)

***D. fallax* (Hedwig) Zander**, false beard-moss

[G5, SNR (probably rare)]

capsules: all year

on soil, concrete, and limestone rocks

Bergen: *C. Austin s.n., 31 Oct 1868* (NY)

Burlington: *M. Robertson* 4811 (PH)  
Essex: *W. Wiegmann* 428 (BKL, NY)  
Sussex: *E. Bartram s.n.*, 13 Sep 1921 (NY)

*D. fallax* var. *reflexus* (Bridel) Zander – northern, not in NJ ours are var. *fallax*

***Diphyscium*** (Buxbaumiaceae)

***D. foliosum* (Hedwig) D. Mohr**, powder-gun moss, nut moss

[G5, SNR (secure)]

capsules: summer

on exposed soil or shallow soil on rocks

Bergen: *Y. Kuwahara* 6951 (NY)

Burlington: *B. Long* 2902 (PH)

Camden: *B. Long* 1457 (PH)

Cumberland: *B. Long* 1071 (PH)

Essex: *D. Lee s.n.*, 14 Mar 1967 (OS)

Gloucester: *B. Long* 1836 (DUKE, ISC, PH, WTU)

Hunterdon: *J. Cantlon* 325 (CHRB)

Mercer: *G. Best s.n.*, 23 Jun 1892 (MO, NY, US)

Middlesex: *B. Long* 2275 (PH)

Monmouth: *B. Long* 2931 (PH)

Morris: *R. Miller* 1386 (MO, NY)

Passaic: *E. Britton s.n.*, 29 May 1882 (NY)

Somerset: *E. Moul* 7765 (CHRB, MO, NY, PH)

Sussex: *G. Tees* 1135 (PH)

Union: *W. Wiegmann* 25 (NY)

Warren: *K. Barringer* 22417 (BKL)

***Discelium*** (Disceliaceae)

***D. nudum* (Dickson) Bridel**, flag-moss

[G3, SNR (historic, probably extirpated)]

capsules: Spring

on moist, shaded, exposed soil banks in woods, railroad embankments

Hunterdon: *G. Best s.n.*, 2 Apr 1897 (MIN, MO, NY, WIS)

***Ditrichum*** (Ditrichaceae)

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

***D. lineare* (Swartz) Lindberg**, cow-hair moss

[G5, SNR (probably secure)]

capsules: Apr-May

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

Atlantic: *C. Reed* 134257 (MO)

Bergen: *C. Austin s.n.*, 28 Nov 1868 (NY)

Burlington: *D. Evert s.n.*, 24 Apr 1962 (PH)

Cumberland: *B. Long* 1115 (PH)

Essex: *A. Beals & M. Beals s.n.*, 20 Oct 1926 (DUKE, FH, ISC, MICH, MO, NY, WTU)  
Hudson: *E. Kiviat s.n.*, 13 Feb 2004 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 28 Sep 1903 (NY)  
Monmouth: *D. Levy 569* (DUKE)  
Ocean: *P. Wilson 2* (NY)

***D. pallidum* (Hedwig) Hampe**, saffron moss

[G5, SNR (secure)]

capsules: Feb-Jul

on soil in somewhat dry, open sites

Atlantic: *B. Long 1924* (PH)

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

Burlington: *M. Robertson 8378* (PH)

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

Cumberland: *B. Long 614* (PH)

Gloucester: *B. Long 569* (PH)

Hunterdon: *J. Cantlon 923* (CHRB, NY)

Mercer: *G. Tees 49* (NY, PH)

Middlesex: *C. Reed 134707* (MO)

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

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

Ocean: *M. Robertson 3073* (PH)

Salem: *M. Robertson 7357* (PH)

Somerset: *E. Moul 7453* (CHRB, PH)

Sussex: *s.l. 25, Oct 1959* (CHRB)

Warren: *T. Parker s.n.*, 1886 (CHRB)

***D. pusillum* (Hedwig) Hampe**, brown cow-hair moss

[G5, SNR (secure)]

capsules: Apr – Jun

disturbed, nutrient-poor soils, roadsides

Bergen: *E. Kiviat s.n.*, 22 Sep 2009 (Hudsonia)

Cumberland: *B. Long 659* (PH)

Essex: *W. Wiegmann 984* (NY)

Gloucester: *B. Long 2189* (PH)

Hudson: *E. Kiviat s.n.*, 13 Feb 2004 (Hudsonia)

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

Monmouth: *L. McIntyre s.n.*, 13 Sep 1904 (CHRB)

Morris: *E. Britton & N. Britton s.n.*, 20 Sep 1886 (CHRB, NY)

Passaic: *E. Britton s.n.*, 20 Sep 1886 (CHRB, NY)

Sussex: *E. Bartram 147* (FH)

***Drepanocladus*** (Amblystegiaceae)

***D. aduncus* (Hedwig) Warnstorf**, Kneiff's hook-moss

[G5, SNR (probably secure)]

capsules: summer

On wet calcareous or enriched soil, sometimes submerged.

Bergen: *E. Kiviat s.n.*, 28 Apr 2008 (Hudsonia)

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

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

Sussex: *C. Austin s.n.* [*Musci App.* 406] (CAS, NY, NYS, PH)

Warren: *M. Robertson 5668* (PH)

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

*D. polygamus* (B.S.G.) L. Hedenäs, stiff star-moss

[G5, SNR (probably secure)]

rich fens, ditches

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

Hudson: *E. Kiviat s.n.*, 6 Jul 2016 (Hudsonia)

Middlesex: *C. Reed 134676* (MO)

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

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

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

*D. sordidus* (Müll. Hal.) L. Hedenäs, dusky hook-moss

[G5, SNR (historic, probably rare)]

capsules: spring – early summer

lakes, rich fens

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

### *Drummondia* (Orthotrichaceae)

*D. prorepens* (Hedwig) E. Britton, Drummond's bark-moss

[G5, SNR (historic, probably rare)]

on trunks and branches of deciduous trees

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

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

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

Mercer: *G. Macloskie 6* (NY)

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

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

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

### *Elodium* (Helodiaceae)

*E. blandowii* (F. Weber & D. Mohr) Eckel, Blandow's bog-moss

[G5, SNR (probably secure)]

capsules: spring

brushy wetlands and rich hardwood swamps

Bergen: *D. Levy 2056* (DUKE)

Hunterdon: *B. Tan 89-1525* (NY)

Morris: *K. Barringer 22655* (DUKE, NY, VT)

Sussex: *C. Austin s.n.*, 1 Nov 1875 (NY)

Warren: *M. Robertson 5998* (PH)

***E. elodioides* (Ren. & Card.) Eckel**, bog-moss

[G3, SNR (probably rare if extant)]

capsules: late spring

soil and logs in wet woods and swamps

*fide* FNA

***E. paludosum* C. Austin**, narrow-leaved bog-moss

[G4, SNR (probably secure)]

capsules: spring

rotting logs or tree bases in swampy woods

Bergen: *E. Kiviat s.n.*, 23 Mar 2016 (Hudsonia)

Burlington: *M. Robertson 7882* (PH)

Camden: *G. Kaiser s.n.*, 4 Jun 1910 (PH)

Cumberland: *B. Long 978* (PH)

Gloucester: *B. Long 1386b* (PH)

Hudson: *E. Kiviat s.n.*, 11 Jan 2010 (Hudsonia)

Hunterdon: *G. Best s.n.*, 18 May 1898 (MO)

Mercer: *B. Long 565* (PH)

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

Morris: *W. Schofeld 3501* (UBC)

Ocean: *M. Robertson 7252* (PH)

Passaic: *G. Nash s.n.*, May 1890 (NY)

Salem: *M. Robertson 2688* (PH)

Sussex: *M. Robertson 4550* (PH)

Warren: *B. Allen 1495* (MO)

***Encalypta*** (Encalyptaceae)

***E. procera* Bruch**, candlesnuffer moss

[G5, SNR (probably rare)]

on limestone and calcareous soils

Sussex: *E. Bartram 6017* (DUKE)

Warren: *B. Long 560* (FH, PH)

***Entodon*** (Entodontaceae)

***E. brevisetus* (Hooker & Wilson) Lindberg**, glazed moss

[G4, SNR (historic, probably rare)]

soil, tree bases, rocks, calciphile

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

***E. challengerii* (Paris) Cardot**, Challenger's glaze-moss

[G4, SNR (probably rare)]

tree bases, fallen logs

Hudson: *J. Torrey 60* (NY)

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

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

***E. cladorrhizans* (Hedwig) Müll. Hal.**, flat glaze-moss



[G5. SNR (probably secure)]

capsules: fall

rotting wood and at the base of trees, in shade

Bergen: *E. Kiviat s.n.*, 23 Jan 2004 (Hudsonia)  
Hudson: *E. Kiviat s.n.*, 22 Mar 2005 (Hudsonia)  
Hunterdon: *W. Buck 21576* (NY)  
Morris: *H. Habeeb 3235* (MT)  
Sussex: *K. Barringer 18119* (DUKE, NY, VT)  
Union: *E. Lawton 1552* (WTU)  
Warren: *W. Buck 21576* (NY)

*E. compressus* (Hedwig) Müll. Hal. - see *E. challengerii*

*E. seductrix* (Hedwig) Müll. Hal., cord glaze-moss

[G5, SNR (secure)]

capsules: fall – early winter

Dry soil, rotting wood, tree bases, usually in shade

Atlantic: *S. Field s.n.* 24 Feb 1990 (MO)  
Bergen: *E. Kiviat s.n.*, 15 Feb 2006 (Hudsonia)  
Burlington: *M. Robertson 7981* (PH)  
Cape May: *B. Long 2160* (PH)  
Cumberland: *B. Long 984* (PH)  
Hudson: *E. Kiviat s.n.*, 11 Jan 2007 (Hudsonia)  
Hunterdon: *W. Buck 22230* (NY)  
Middlesex: *H. Webster 10* (CHRB)  
Monmouth: *S. Dubois s.n.* 4 Oct 1984 (DUKE)  
Morris: *A. Beals s.n.*, 30 Nov 1916 (DUKE)  
Ocean: *A. Beals s.n.*, 15 Nov 1942 (NY)  
Passaic: *A. Beals s.n.*, Dec 1925 (MICH, NY, WTU)  
Salem: *B. Long 1593* (DUKE, PH)  
Somerset: *W. Wistendahl 9* (CHRB)  
Sussex: *B. Tan 92-129* (FH)  
Union: *K. Barringer 20092*  
Warren: *T. Porter s.n.*, 1886 (CHRB, PH)

***Ephemerum*** (Ephemeraceae)

*E. crassinervium* (Schwägrichen) Hampe, veined earth-moss

[G4, SNR (historic, probably rare if extant)]

capsules: year-round

moist or drying, disturbed soil

Bergen: *C. Austin s.n.*, Oct 1873 [*Musci App.* 50] (CAS, FH, MO, NY, PH, YU)

*E. serratum* (Hedwig) Hampe, saw-tooth earth-moss

[G4, SNR (historic, rare if extant)]

capsules: year-round, but mostly autumn

limestone soils in lawns, meadows, pastures

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

***E. spinulosum* Bruch & Schimper**, fine-toothed earth moss

[G4, SNR (historic, probably rare if extant)]

capsules: year-round

moist, disturbed soil, especially ditches, paths, swamps

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

***Eurhynchiastrum*** (Brachytheciaceae)

***E. pulchellum* (Hedwig) Ignatov & Huttunen**, rug moss

[G5, SNR (probably secure)]

usually in shade of woods on soil or rotting wood

Atlantic: *B. Long 895* (PH)

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

Gloucester: *B. Long 2090* (PH)

Hunterdon: *E. Moul 6744* (CHRB, PH)

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

Monmouth: *B. Long 2271* (PH)

Morris: *C. Reed 75246* (MO)

Passaic: *D. Levy 907* (DUKE)

Salem: *B. Long 577b* (PH)

Union: *W. Trask 111* (CONN)

Sussex: *E. Frank NJ160* (CHRB)

Warren: *E. Bartram 430* (FH)

***Eurhynchium*** (Brachytheciaceae)

***E. hians* (Hedwig) Sande Lac.** – see *Oxyrrhynchium hians*

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

***Fabronia*** (Fabroniaceae)

***F. ciliaris* (Bridel) Bridel**, silver hair moss

[G5, SNR (historic, probably rare)]

capsules: summer

tree bark

Warren: *C. Austin s.n.* [*Musci App. Suppl.* 1 535] (FH, NEB, NY, NYS)

***Fissidens*** (Fissidentaceae)

***F. adianthoides* Hedwig**, maidenhair pocket-moss

[G5, SNR (secure)]

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

Bergen: *D. Levy 1866* (DUKE)

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

Gloucester: *B. Long 1301* (PH)

Hunterdon: *K. Barringer 22194* (BKL)

Monmouth: *E. Lanning s.n.*, Feb 1949 (F)  
Morris: *K. Barringer 23531* (BKL)  
Passaic: *K. Barringer 20609* (BKL)  
Sussex: *K. Barringer 23024* (DUKE, NY, VT)  
Union: *E. Lawton 235* (WTU)  
Warren: *N. Miller 10116* (NYS)

***F. bryoides* Hedwig**, lesser pocket-moss

[G5, SNR (secure)]

capsules: summer

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

Bergen: *W. Wiegmann 1265* (NY)  
Cumberland: *P. Wilson s.n.*, 21 Jul 1908 (NY)  
Hudson: *C. Austin 280* (MO, NY, NYS)  
Hunterdon: *W. Buck 22184* (NY)  
Morris: *D. Levy s.n.*, 27 Aug 1916 (DUKE)  
Passaic: *K. Barringer 21435* (BKL)  
Somerset: *C. Austin s.n.*, 11 Aug 1867 (NY)  
Sussex: *K. Barringer 21564* (BKL)  
Union: *W. Trask 87* (CONN)  
Warren: *W. Buck 21531* (NY)

***F. bushii* (Cardot & Thériot) Cardot & Thériot**, Bush's pocket-moss

[G5, SNR (probably secure)]

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

Hunterdon: *G. Merrill 11570* (MICH)

***F. closteri* C. Austin**, Closter pocket moss

[G2, SNR (historic, rare or extirpated)]

rocks along streams

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

***F. dubius* P. Beauvois**, rock pocket-moss

[G5, SNR (secure)]

capsules: fall

soil or rocks in moist to wet, shaded woods

Burlington: *T. Zanoni 4870* (NY)  
Cumberland: *B. Long 1378* (DUKE, PH)  
Hunterdon: *K. Barringer 20751* (BKL)  
Morris: *R. Miller 1382* (NY)  
Passaic: *J. Torrey s.n.*, Nov 1866 (NY)  
Somerset: *C. Austin s.n.*, 11 Aug 1867 (NY)  
Union: *K. Barringer 18132* (BKL, CAS, NY, VT)  
Sussex: *K. Barringer 25288* (BKL)  
Warren: *M. Robertson 5693* (PH)

***F. exilis* Hedwig**, small pocket moss

[G3, SNR (probably secure)]

soil of shaded, disturbed banks

Hunterdon: *W. Buck 22181* (NY)

***F. fontanus* (B. Pylaie) Steudel**, pond pocket-moss

[G5, SNR (probably secure)]

various substrates in stagnant or slow-flowing water

Bergen: *E. Kiviat s.n.*, 16 Jun 2009 (Hudsonia)

Burlington: *D. Evert 10* (PH)

Essex: *W. Wiegmann 179* (NY)

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

Morris: *B. Allen 16248* (MO)

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

Sussex: *K. Barringer 6178* (BKL)

***F. hallianus* (Sullivant & Lesquereux) Mitten**, Hall's pocket-moss

[GNR, SNR (historic, rare if extant)]

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

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

***F. minutulus* Sullivant**, minute pocket-moss

[GNR, SNR (rare if extant)]

limestone and soil near shaded streams

Warren: *M. Robertson 5692* (PH)

***F. obtusifolius* Wilson**, blunt-leaved pocket-moss

[G5, SNR (rare)]

limestone near streams and waterfalls, sometimes on wet bricks

Warren: *R. Schaeffer s.n.*, 29 Jul 1948 (PH)

***F. osmundioides* Hedwig**, purple-stalked pocket-moss

[G5, SNR (probably secure)]

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

Bergen: *A. Beals 295* (NY)

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

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

Passaic: *K. Barringer 21431* (BKL)

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

***F. subbasilaris* Hedwig**, tree pocket-moss

[G4, SNR (secure)]

capsules: fall

base of trees, limestone rocks and decaying wood

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

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

Sussex: *K. Barringer 24693* (BKL)

Warren: *K. Barringer 24824* (BKL)

***F. taxifolius* Hedwig**, yew-leaf pocket-moss

[G5, SNR (secure)]

capsules: late fall - winter

damp, shaded soil and rocks, mild calciphile

Bergen: *W. Wiegmann 1001* (NY)

Hudson: *E. Kiviak s.n.*, 20 Feb 2014 (Hudsonia)  
Hunterdon: *W. Buck 22220* (NY)  
Morris: *H. Habeeb 3377* (MT, NYS, UBC)  
Passaic: *K. Barringer 27541* (BKL)  
Union: *W. Wiegmann 93* (NY)  
Sussex: *K. Barringer 25970* (BKL)  
Warren: *K. Barringer 22097* (BKL)

**Fontinalis** (Fontinalaceae)

***F. antipyretica* Hedwig**, keeled water-moss

[G5, SNR (secure)]

rocks in flowing water

Bergen: *C. Austin s.n.*, 1865 (NY)  
Mercer: *T. James s.n.*, 1851 (FH)  
Middlesex: *H. Fischer s.n.*, 20 Apr 1897 (PH)  
Morris: *W. Wiegmann 65* (NY)  
Passaic: *K. Barringer 21321* (BKL)  
Sussex: *E. Moul 7440* (CHRB, NY)

***F. dalecarlica* Schimper**, cupped water-moss, slender water-moss

[G5, SNR (secure)]

rocks in fast moving streams

Bergen: *C. Austin s.n.*, 1865 (NY)  
Monmouth: *B. Long 2993* (NY, PH)  
Morris: *E. Britton s.n.*, 30 May 1892 (NY)  
Passaic: *J. Glime s.n.*, 21 Dec 1966 (MCTC)  
Warren: *B. Andraes 8329* (KE)

***F. hypnoides* Hartman**, river moss

[G5, SNR (rare)]

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

Cumberland: *W. Ferren s.n.*, Jun 1976 (PH)

***F. novae-angliae* Sullivant**, New England water-moss

[G5, SNR (secure)]

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

Bergen: *D. Levy 739* (DUKE)  
Cumberland: *B. Long 1516* (NY, PH)  
Essex: *H. Habeeb & E. Moul 3539* (UBC)  
Gloucester: *J. Adams 9215* (PH)  
Hunterdon: *W. Buck 22196* (NY)  
Mercer: *G. Claus s.n.*, 4 Nov 1958 (NY, PH)  
Morris: *B. Allen 16249* (MO)  
Ocean: *A. Owens s.n.*, 18 Jun 1948 (NY)  
Passaic: *K. Barringer 20468* (BKL)  
Sussex: *E. Lawton s.n.*, 15 Oct 1950 (NY)  
Warren: *D. Evert 48* (PH)

***F. sphagnifolia* (Muller Hal.) Wijk & Margadant**, broad-leaved water moss

[G4, SNR (probably secure)]

seasonally dry streams

Atlantic: *R. Williams s.n.*, 6 Jul 1905 (PH)

Middlesex: *K. Siroryak s.n.*, 7 Mar 1979 (MO)

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

***F. sullivantii* Lindberg**, Sullivan's water-moss

[GNR, SNR (probably rare)]

rocks in pools or sluggish streams

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

Bergen: *K. Barringer 22275* (BKL)

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

Morris: *K. Barringer & J. Rosenbaum 25012* (CHRB, PH)

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

***Forsstroemia*** (Leptodontaceae)

***F. trichomitria* (Hedwig) Lindberg**, fan moss

[G4, SNR (probably rare)]

capsules: winter

deciduous tree trunks and, rarely, limestone rocks

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

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

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

Salem: *M. Robertson 2699* (PH)

Sussex: *A. Grout s.n.*, 25 May 1929 (DUKE)

Warren: *A. Miller s.n.*, Sep 1992 (NYS)

***Funaria*** (Funariaceae)

***F. flavicans* Michaux**, pale cord-moss

[G5, SNR (probably rare)]

disturbed soil, especially near foundations and roadsides, weedy

Atlantic: *C. Reed 136112* (MO)

Bergen: *J. Wurdack & R. Cowan 28* (NY)

Cumberland: *B. Long 1925* (PH)

Hunterdon: *G. Best s.n.*, 13 May 1891 (NY)

Ocean: *A. Grout s.n.*, 10 Apr 1906 (DUKE, NY)

***F. hygrometrica* Hedwig**, bonfire moss, cord-moss

[G5, SNR (secure)]

disturbed soil, weedy

Atlantic: *M. Robertson 2051* (PH)

Bergen: *E. Kiviat s.n.*, 5 Mar 2017 (Hudsonia)

Burlington: *B. Long 605* (PH)

Camden: *G. Kaiser s.n.*, 10 Oct 1908 (PH)

Cumberland: *J. Adams 975* (PH)  
Gloucester: *B. Long 2317* (PH)  
Hudson: *C. Reed 91391* (MO)  
Hunterdon: *G. Best s.n.*, 10 Jun 1893 (NY)  
Mercer: *B. Long 563* (PH)  
Middlesex: *E. Moul 7577* (CHRB, NY)  
Monmouth: *J. Small s.n.*, 14 Apr 1894 (CHRB, NY)  
Morris: *s.l. s.n.*, Nov 1867 (NY)  
Ocean: *B. Long 1603* (PH)  
Passaic: *G. Nash s.n.*, 25 Apr 1893 (NY)  
Salem: *B. Long 1192* (PH)  
Somerset: *A. Grout 38* (COLO, FH, MICH, MO, NY, TENN)  
Sussex: *K. Barringer 7667* (BKL)  
Warren: *K. Barringer 20928* (BKL)

***Gemmabryum*** (Bryaceae)

***G. caespiticium* (Hedwig) J. R. Spence**, tufted bryum, handbell moss

[G5, SNR (secure)]

capsules: spring-summer

Disturbed soil, walls, rocks

Atlantic: *A. Leeds s.n.*, 29 Apr 1934 (PH)  
Bergen: *E. Kiviat s.n.*, 5 Aug 2015 (Hudsonia)  
Burlington: *T. Zanoni 4872* (NY)  
Camden: *J. Fogg M108* (PH)  
Cumberland: *B. Long 651* (PH)  
Hudson: *E. Kiviat s.n.*, 5 Sep 2015 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 20 May 1892 (NY)  
Mercer: *G. Tees 578* (PH)  
Monmouth: *B. Long 2318* (PH)  
Morris: *H. Wheeler s.n.*, May 1905 (CONN)  
Passaic: *G. Nash s.n.*, 27 Apr 1892 (NY)  
Sussex: *W. Wiegmann 903* (BKL, NY)  
Warren: *G. Tees 713* (PH)

***G. dichotomum* Hedwig**, thread moss

[G4, SNR (rare)]

capsules: spring-summer

moist, disturbed soil, old walls

Bergen: *C. Austin s.n., s.d.* (NY)  
Cumberland: *C. Reed 134124* (MO)  
Sussex: *C. Austin s.n.*, Nov 1875 (NY)

***G. subapiculatum* (Hampe) Spence & Ramsay**, rose-tuber bryum

[G5, SNR (rare if extant)]

Capsules: spring-summer

disturbed soil, farmland

*fide* FNA

**Grimmia** (Grimmiaceae)

**G. elatior** Bals & DeNotaris, dry rock-moss

[G4, SNR (extirpated)]

The only population found E of the Mississippi.

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

exposed, acid rock

Somerset: *E. Moul 7302* (CHRB, NY)

**G. laevigata** (Bridel) Bridel, dry rock-moss

[G5, SNR (rare)]

exposed, acidic rocks

Bergen: *C. Austin 645* (NY)

Passaic: *D. Levy 958* (DUKE)

**G. olneyi** Sullivant, Olney's rock-moss, Olney's cannikin

[G4, SNR (probably secure)]

rocks near streams or lakes

Bergen: *K. Barringer 18177*

Burlington: *M. Robertson 8531* (PH)

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

Hunterdon: *B. Long 1081* (PH)

Mercer: *G. Tees 51* (PH)

Morris: *K. Barringer 18405* (BKL)

Passaic: *C. Austin s.n.* [*Musci App.* 144] (BKL, NY, NYS)

Sussex: *K. Barringer 18209* (BKL)

Warren: *M. Robertson 7125* (PH)

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

**G. pilifera** P. Beauvois, hoary cannikin

[G4, SNR (secure)]

on dry, often shaded, limestone, sandstone, or granite

Bergen: *D. Levy 1986* (DUKE)

Essex: *K. Barringer 18259* (BKL)

Hunterdon: *J. Cantlon & E. Moul 6200* (CHRB)

Monmouth: *N. Britton s.n.*, 28 Sep 1886 (NY)

Morris: *T. Zanoni s.n.*, 18 Feb 1970 (MO)

Somerset: *K. Barringer 18124* (BKL)

Sussex: *K. Barringer 18210* (BKL, DUKE, VT)

Union: *W. Weigmann 484* (NY)

Warren: *B. Tan 92-121* (FH, NY)

**Gymnostomum** (Pottiaceae)

**G. aeruginosum** Smith, rock beardless-moss, toothless cup-moss

{G5, SNR (rare)}



Ours may be *Hymenstylidium recurvirostrum*  
capsules: summer-fall  
wet, calcareous rock, especially near falls  
Hunterdon: *G. Best s.n.*, 10 Oct 1892 (NY)  
Sussex: *E. Bartram 698* (DUKE, FH, PH)

**Hageniella** (Sematophyllaceae)

***H. micans* (Mitten) B. C. Tan & Y. Jia**, shiny brook-moss, sparkling brook-moss  
[G4, SNR (historic, probably rare)]  
Capsules; Dec-Jan  
shaded rocks near streams  
Bergen: *C. Austin s.n.* [*Musci App.* 440] (BKL, MU, NY)

**Hamatocaulis** (Calliergonaceae)

***H. vernicosus* (Mitten) Hedenäs**, varnished hook-moss  
[G5, SNR (historic, probably rare)]  
lake shores and other moist, slightly rich habitats  
Bergen: *C. Austin s.n.*, Aug 1874 (NY)  
Morris: *C. Austin s.n.*, [*Musci App.* 402b] (NY)

**Haplocladium** (Leskeaceae)

***H. microphyllum* Hedwig**, small plume-moss  
[G5, SNR (probably rare)]  
Capsules: year-round  
damp, disturbed sites  
Bergen: *E. Kiviat s.n.*, 17 May 2017 (Hudsonia)

***H. virginianum* (Bridel) Brotherus**, Virginia plume-moss  
[G5, SNR (secure)]  
capsules: spring  
disturbed or burned sites, acidophile  
Atlantic: *C. Reed 134015* (MO)  
Bergen: *C. Austin s.n.* [*Musci App.* 299] (BKL, NY, NYS)  
Burlington: *E. Moul 7518* (CHRB)  
Bergen: *C. Austin 299* (NY)  
Camden: *B. Long 2064* (PH)  
Gloucester: *B. Long 757* (PH)  
Hudson: *E. Kiviat s.n.*, 22 Mar 2005 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 22 Jul 1904 (NY)  
Mercer: *K. Barringer s.n.*, 6 May 2003 (BKL)  
Monmouth: *B. Long 2991* (PH)  
Morris: *I. Henley s.n.*, Jul 1940 (ISC, NY)  
Passaic: *G. Tees 1100* (PH)  
Salem: *J. Adams 1818A* (PH)  
Sussex: *H. Habeeb 3673* (F, MT, NYS, UBC)

Warren: *R. Schaffer* 42 (PH)

*Haplohymenium* (Anomodontaceae)

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

*Hedwigia* (Hedwigiaceae)

*H. ciliata* (Hedwig) P. Beauvois, Hedwig's moss, medusa

[G5, SNR (secure)]

capsules: spring

on exposed rocks

Bergen: *E. Kiviat s.n.*, 27 Apr 2017 (Hudsonia)

Burlington: *P. Majestyk* 2429 (NY)

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

Hudson: *E. Kiviat s.n.*, 6 Feb 2009 (Hudsonia)

Hunterdon: *K. Barringer* 22177 (BKL)

Morris: *K. Barringer* 18504 (BKL)

Passaic: *K. Barringer* 26795 (CHRB)

Somerset: *K. Barringer* 18123 (BKL)

Sussex: *K. Barringer* 20564 (BKL, DUKE, NY, PH, VT)

Union: *W. Wiegmann* 482 (BKL, NY)

Warren: *K. Barringer* 18294 (BKL)

*Helodium* (Helodiaceae) – see *Elodium*

*Herzogiella* (Hypnaceae)

*H. striatella* (Bridel) Iwatsuki, round stump-moss

[G5, SNR (secure)]

capsules: summer

tree bases, acid rocks or soil in shade

Atlantic: *M. Robertson* 3196 (PH)

Bergen: *D. Levy* 2033 (DUKE)

Cape May: *M. Robertson* 3175 (PH)

Cumberland: *B. Long* 1544 (PH)

Hudson: *C. Austin* 852 (NY)

Hunterdon: *K. Barringer* 22179 (BKL)

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

Morris: *H. Habeeb* 3238 (F)

Ocean: *M. Robertson* 7118 (PH)

Passaic: *K. Barringer* 24819 (BKL)

Salem: *B. Long* 950 (PH)

Sussex: *E. Bartram* 270 (FH)

Union: *E. Lawton* 573 (WTU)

Warren: *R. Cowan* 181 (NY)

*H. turfacea* (Lindberg) Iwatsuki, flat stump-moss

[G5, SNR (probably rare)]

capsules: summer

trees and rocks, moist.coniferous woods and swamps

Bergen: *C. Austin 574* (NY)

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

Hudson: *C. Austin 852* (NY)

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

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

Sussex: *W. Wiegmann 819a* (BKL, NY)

Warren: *M. Robertson 7129* (PH)

*Homalia* (Neckeraceae)

*H. trichomanoides* (Hedwig) Schimper – not in NJ

*Homalotheciella* (Brachytheciaceae)

*H. subcapillata* (Hedwig) Brotherus, few-haired moss

[G5, SNR (probably rare)]

Capsules: Sep - Feb

trees, logs, occasionally rocks in moist woods

Atlantic: *B. Long 2165* (PH)

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

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

Hunterdon: *G. Best s.n.*, 18 Nov 1891 (NY, PH)

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

*Homomallium* (Hypnaceae)

*H. adnatum* (Hedwig) Brotherus

[G4, SNR (probably secure)]

capsules: summer

on limestone and traprock

Bergen: *E. Kiviat s.n.*, 14 Nov 2013 (Hudsonia)

Gloucester: *B. Long 2060* (PH)

Hudson: *C. Austin 621* (NY)

Hunterdon: *W. Buck 22228* (NY)

Morris: *E. Frank NJ-80* (CHRB)

Ocean: *A. Grout s.n.*, Oct 1921 (DUKE)

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

Sussex: *A. Grout s.n.*, 25 May 1929 (DUKE)

Warren: *W. Buck 21584* (NY)

*Hygroamblystegium* (Amblystegiaceae)

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

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

*H. varium* (Hedwig) Mönkemeyer, tangled thread-moss, willow feather-moss

[G5, SNR (secure)]

on wet rocks in and around streams

Bergen: *E. Kiviat s.n.*, 8 Nov 2004 (Hudsonia)  
Burlington: *M. Robertson 4627* (PH)  
Camden: *C. Darigo & D. Darigo 4443* (MO)  
Cape May: *B. Long 1131* (PH)  
Essex: *W. Wiegmann 982* (NY)  
Hudson: *E. Kiviat s.n.*, 11 Jan 2007 (Hudsonia)  
Hunterdon: *B. Long 2901* (PH)  
Mercer: *G. Tees 571* (PH)  
Middlesex: *s.l. s.n.*, 18 Jun 1896 (NY)  
Monmouth: *C. Reed 134690* (MO)  
Morris: *M. Robertson 6b* (PH)  
Ocean: *M. Robertson 4301* (PH)  
Passaic: *G. Nash s.n.*, 15 Apr 1891 (NY)  
Salem: *G. Tees 1031* (PH)  
Somerset: *K. Barringer 18684* (BKL, CAL, DUKE, NY, VT)  
Sussex: *W. Wiegmann 157* (NY)  
Union: *E. Lawton 1033* (WTU)  
Warren: *J. Churchill s.n.*, 16 Aug 1970 (MSC)

***Hygrohypnum*** (Amblystegiaceae)

***H. closteri* (C. Austin) Grout**, Closter brook-moss

[G3, SNR (historic, probably extirpated)]

on rocks in streams

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

***H. duriusculum* (DeNotaris) D. W. Jameson** – not in NJ

***H. eugyrium* (Schimper) Loeske**, swollen brook-moss, inflated brook-moss

[G5, SNR (probably vulnerable)]

on wet, acidic rocks along streams

Bergen: *W. Trask 81* (CONN)  
Morris: *I. Henley s.n.*, Jul 1938 (ISC)  
Passaic: *C. Austin s.n.*, Nov 1866 (NY)  
Sussex: *C. Austin s.n.*, Oct 1871 (NY)  
Warren: *B. Allen 1496* (MO)

***H. luridum* (Hedwig) Jennings**, stiff brook-moss

[G5, SNR (historic, rare if extant)]

on limestone rocks in and along streams

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

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

***H. molle* (Hedwig) Loeske** - ours may be *H. eugyrium*

***H. ochraceum* (Wilson) Loeske**, bubble brook-moss, clawed brook-moss

[G5, SNR (probably rare)]

on wet, acidic rocks in rapid streams and waterfalls

Hunterdon: *G. Best s.n.*, 1894 (NY)  
Sussex: *B. Andraes 8305* (KE)

*Hylocomiastrum* (Hylocomiaceae)

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

*Hylocomium* (Hylocomiaceae)

*H. splendens* (Hedwig) *Schimper*, stairstep moss

[G5, SNR (probably rare)]

capsules: spring

forming carpets on rotting wood, rocks, or soil in moist, cool woods

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

Sussex: *T. Porter s.n.*, 15 Jul 1871 (PH)

*Hymenostylium* (Pottiaceae)

*H. recurvirostrum* (Hedwig) *Dixon*, hook-beaked tufa moss

[G5, SNR (rare if extant)]

capsules: late summer - fall

moist calcareous rocks

Passaic: *C. Austin s.n.*, 1872 [*Musci App.* 61] (CHRB, NEB, PH)

Sussex: *E. Bartram 958* (PH)

*Hyophila* (Pottiaceae)

*H. involuta* (Hooker) *A. Jaeger*, rolled-leaf pottia

[G4, SNR (rare if extant)]

crumbling or loose, often basic rocks, especially near streams

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

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

Sussex: *E. Bartram 923* (FH, MICH, NEB, NY, WTU, YU)

*Hypnum* (Hypnaceae)

*H. cupressiforme* *Hedwig*, cypress-leaved plait-moss

[G5, SNR (probably secure)]

capsules: fall – early winter

on vertical surfaces of rocks, trees, and on soil

Bergen: *C. Austin s.n.*, [*Musci App.* 421] (BKL, NY, PH)

Burlington: *G. Tees 1361* (NY, PH)

Camden: *B. Long 2069* (PH)

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

Cumberland: *B. Long 1377* (PH)

Gloucester: *B. Long 1768* (PH)

Hudson: *J. Torrey s.n.*, 1866 (NY)

Hunterdon: *G. Best s.n.*, 16 Dec 1891 (NY)

Ocean: *G. Tees 1373* (PH)

Passaic: *C. Austin s.n.*, Sep 1867 (MICH, NY, NYS, WIS)  
Salem: *B. Long 2081* (PH)  
Sussex: *C. Austin 663* (NY)

*H. cupressiforme* var. *resupinatum* (Taylor) Schimper – see the species

*H. curvifolium* Hedwig, greater plait-moss

[G5, SNR (probably secure)]

capsules: spring

on soil and rotting wood in wet woods and swamps

Bergen: *C. Austin s.n.*, 28 Nov 1868 (NY)

Burlington: *T. James s.n.*, Jun 1851 (NY)

Camden: *M. Robertson 4089* (PH)

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

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

Passaic: *R. Cowan 91* (NY)

Sussex: *E. Frank NJ-40* (CHRB)

Warren: *M. Robertson 5954* (PH)

*H. imponens* Hedwig, brocade moss

[G5, SNR (secure)]

Capsules: Jul-Sep

on tops of rotting logs

Atlantic: *B. Long 1313* (PH)

Bergen: *E. Kiviat s.n.*, 7 Apr 2015 (Hudsonia)

Burlington: *B. Allen 16874* (MO)

Camden: *M. Robertson 4934* (PH)

Cape May: *D. Evert 71* (PH)

Cumberland: *B. Long 1125* (PH)

Essex: *H. Habeeb 3029* (NYS)

Gloucester: *B. Long 2103* (PH)

Hudson: *E. Kiviat s.n.*, 12 Apr 2009 (Hudsonia)

Hunterdon: *W. Buck 22245* (NY)

Mercer: *G. Tees 79* (PH)

Middlesex: *K. Barringer 21815* (BKL)

Monmouth: *M. Robertson 7368* (PH)

Morris: *I. Henley 1* (BRIT, ISC)

Ocean: *M. Robertson 7120* (PH)

Passaic: *G. Tees 1108* (NY)

Salem: *B. Long 963* (PH)

Sussex: *C. Reed 133683* (MO)

Union; *W. Trask 102* (CONN)

Warren: *M. Robertson 5687* (PH)

*H. lindbergii* Mitten, Lindberg's plait-moss

[G5, SNR (secure)]

capsules: summer

on wet soil and rotting wood in swamps

Bergen: *E. Kiviat s.n.*, 28 Mar 2010 (Hudsonia)  
Burlington: *M. Robertson 3365* (PH)  
Cape May: *C. Reed 134035* (MO)  
Cumberland: *B. Long 831* (PH)  
Hudson: *C. Austin s.n.* [*Musci App.* 426] (BKL, MICH, NY, PH)  
Hunterdon: *W. Buck 22221* (NY)  
Monmouth: *C. Reed 134685* (MO)  
Morris: *K. Barringer 18503* (BKL, DUKE, NY, VT)  
Passaic: *D. Levy 804* (DUKE)  
Somerset: *H. Habeeb 3496* (NYS)  
Sussex: *T. Porter s.n.*, Jul 1871 (PH)  
Warren: *K. Barringer 25055* (BKL)

***H. pallescens* (Hedwig) P. Beauvois**, stump plait-moss

[G5, SNR (secure)]

capsules: summer

at the base of trees in the woods

Atlantic: *C. Reed 134387* (MO)  
Bergen: *C. Austin s.n.*, 1866, (FH, NY, YU)  
Burlington: *M. Robertson 7969* (PH)  
Camden: *M. Robertson 4935* (PH)  
Cape May: *B. Long 2161* (PH)  
Hudson: *E. Kiviat s.n.*, 12 Apr 2009 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 13 Oct 1893 (NY)  
Monmouth: *C. Reed 134695* (MO)  
Ocean: *M. Robertson 5741* (PH)  
Passaic: *I. Henley s.n.*, Jul 1940 (ISC)  
Sussex: *C. Reed 133658* (MO)  
Warren: *F. Buser 12052* (NY)

***H. pratense* (Rabenhorst) W. Koch**, meadow plait-moss

[G5, SNR (probably rare)]

capsules: spring

rich fens and limestone swamps

Bergen: *M. Martin s.n.*, 30 Jul 1961 (NY)  
Hudson: *C. Austin s.n.*, [*Musci App.* 426] (BKL, NEB, NY, PH)  
Sussex: *E. Moul 7450* (CHRB)

***Imbribryum*** (Bryaceae)

***I. muehlenbeckii* (Bruch & Schimper) J. R. Spence**, Muhlenbeck's bryum

[G4, SNR (historic, rare if extant)]

on wet rocks near streams

Bergen: *A. Beals s.n.*, 21 Jul 1918 (DUKE, NY, NYS, PH)

***Isopterygiopsis*** (Hypnaceae)

***I. muelleriana* (Schimper) Iwatsuki**, Mueller's silk-moss

[G5, SNR (historic, rare if extant)]

Capsules fall

crevices in cliffs on acidic rocks also soil and tree bases

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

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

***I. pulchella* (Hedwig) Iwatsuki**, neat silk-moss

[G5, SNR (historic, very rare if extant)]

Capsules spring-summer

on damp substrates on cliffs and outcrops, overturned tree roots

Bergen: *C. Austin s.n.*, May 1886 (NY)

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

***Isopterygium*** (Pylaisiadelphaceae)

***I. tenerum* (Swartz) Mitten**, luster moss

[G5 SNR (probably vulnerable)]

Capsules spring-summer

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

Atlantic: *M. Robertson 7666* (PH)

Bergen: *C. Austin s.n.* [*Musci App.* 429] (BKL, MICH, NEB, NY, WIS)

Burlington: *M. Robertson 8394* (PH)

Cumberland: *B. Long 1139* (PH)

Gloucester: *G. Kaiser s.n.*, 8 Oct 1910 (PH)

Middlesex: *C. Reed 134710* (MO)

Monmouth: *J. Cantlon 295* (CHRB)

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

Salem: *B. Long 835a* (PH)

***Jochenia*** (Hypnaceae)

***J. pallescens* (Hedw.) Hedenas, Schlesak & D. Quant** = *Hypnum pallescens*

***Leptobryum*** (Meesiaceae)

***L. pyriforme* (Hedwig) Wilson**, golden thread-moss

[G5, SNR (probably secure)]

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

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

Gloucester: *B. Long 1767* (PH)

Hudson: *E. Kiviati s.n.*, 21 Apr 2005 (Hudsonia)

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

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

Monmouth: *D. Levy 2121* (DUKE)

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

Sussex: *H. Habeeb 3674* (NYS)



**Leptodictyum** (Amblystegiaceae)

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

***L. riparium* (Hedwig) Warnstorff**, Kneiff's feather-moss, tangled thread-moss

[G5, SNR (secure)]

capsule: sporadic, all year

on soil and litter in swamps

Bergen: *E. Kiviat s.n.*, 21 Mar 2012 (Hudsonia)

Burlington: *M. Robertson 4809* (PH)

Camden: *H. Biddlecome 168* (MO)

Cumberland: *B. Long 1490* (PH)

Hudson: *E. Kiviat s.n.*, 16 Jun 2009 (Hudsonia)

Hunterdon: *W. Buck 22189* (NY)

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

Morris: *M. Robertson 7107* (PH)

Ocean: *M. Robertson 5787* (PH)

Passaic: *E. Britton 31* (NY)

Salem: *M. Robertson 4065* (PH)

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

Sussex: *A. Grout s.n.*, 25 May 1925 (DUKE)

Union: *G. Anderson 249* (CHRB)

Warren: *D. Evert s.n.*, May 1963 (PH)

**Leskea** (Leskeaceae)

***L. gracilescens* Hedwig**, Leske's moss, necklace chain-moss

[G5, SNR (secure)]

capsules can be found all year

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

Bergen: *E. Kiviat s.n.*, 5 Feb 2009 (Hudsonia)

Burlington: *M. Robertson 4225* (PH)

Cape May: *B. Long 669* (PH)

Hudson: *E. Kiviat s.n.*, 12 Apr 2009 (Hudsonia)

Hunterdon: *J. Cantlon 226* (CHRB)

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

Morris: *E. Frank NJ-287* (CHRB)

Salem: *C. Reed 136114* (MO)

Somerset: *E. Moul 7545* (CHRB, NY)

Sussex: *C. Reed 132864* (MO)

Warren: *R. Schaeffer 164* (NY, PH)

***L. obscura* Hedwig**, blunt chain-moss

[G5, SNR (probably rare)]

capsules: Mar-Nov

tree bases and fallen logs

Bergen: *W. Wiegmann 454* (BKL, NY)

Burlington: *M. Robertson 4806* (PH)  
Essex: *C. Austin s.n.*, Apr 1867 (NY)  
Gloucester: *C. Lippincott 1202* (PH)  
Hudson: *C. Austin s.n.*, 26 Apr 1866 (NY)  
Hunterdon: *W. Buck 22206* (NY)  
Morris: *W. Wiegmann s.n.*, 17 May 1914 (NY)  
Sussex:; *W. Wiegmann s.n.*, 19 Jun 1916 (NY)

***L. polycarpa* Hedwig**, curled chain-moss, many-fruited chain-moss  
[G5, SNR (probably secure)]

capsules: Mar-Nov

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

Bergen: *E. Kiviat s.n.*, 11 Aug 2005 (Hudsonia)  
Cumberland: *B. Long 1432* (PH)  
Hudson: *E. Kiviat s.n.*, 22 Mar 2005 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 28 May 1892 (NY)  
Mercer: *B. Long 2264* (PH)  
Middlesex: *W. Wiegmann 12* (BKL, NY)

***Leskeella*** (Leskeaceae)

***L. nervosa* (Bridel) Loeske**, frayed-string moss  
[G5, SNR (rare)]

on trees or brush in moist, shaded sites

Union: *L. Schwienitz s.n.*, s.d. (MO, PH)  
Somerset: *W. Wistendahl 23* (CHRB)  
Warren: *A. Beals s.n.*, 23 Sep 1938 (NY)

***Leucobryum*** (Leucobryaceae)

***L. albidum* (Bridel) Lindberg**, white moss, fertile pincushion  
[G5, SNR (secure)]

capsules: Aug-Jan

on soil and rotting wood

Atlantic: *M. Robertson 4938* (PH)  
Burlington: *H. Koster B10* (DUKE, ISC, MO, NY, TRT)  
Camden: *W. Green s.n.*, 1882 (FH, NY)  
Cumberland: *C. Reed 134601* (MO)  
Monmouth: *C. Reed 13428* (MO)  
Morris: *H. Habeeb 3171* (UBC)  
Ocean: *B. Carter 8615* (SJSU)  
Sussex: *N. Miller 10076A* (NYS)  
Warren: *E. Frank s.n.*, 2 Sep 1991 (CHRB)

***L. glaucum* (Hedwig) Ångström**, pincushion moss  
[G5, SNR (secure)]  
capsules: Aug-Dec

on soil or rotting wood in rocky slope woods, often open woods

Atlantic: *J. Allen s.n.*, 21 Aug 1879 (NY)  
Bergen: *E. Kiviat s.n.*, 1 Jul 2005 (Hudsonia)  
Burlington: *B. Allen 16888* (MO)  
Camden: *T. James s.n.*, Dec 1848 (NY)  
Cape May: *E. Moul 6161* (CHRB, NY)  
Cumberland: *E. Wherry s.n.*, 28 Oct 1934 (MO, PH)  
Essex: *E. Britton s.n.*, 28 Oct 1882 (NY)  
Gloucester: *B. Long 1655* (DUKE, ISC, MO, NY, PH)  
Hunterdon: *W. Buck 22231* (NY)  
Mercer: *G. Tees 30* (PH)  
Middlesex: *E. Britton & N. Britton s.n.*, 14 Sep 1883 (NY)  
Monmouth: *M. Robertson 7362* (PH)  
Morris: *I. Henley s.n.*, Jul 1938 (BRIT, ISC)  
Ocean: *H. Henry B48* (PH)  
Passaic: *E. Moul 8846* (CHRB)  
Salem: *B. Long 974* (PH)  
Sussex: *E. Moul 8999* (PH)  
Warren: *E. Frank NJ-238* (CHRB)

**Leucodon** (Leucodontaceae)

***L. andrewsianus* (Crum & Anderson) Reese & Anderson**, Andrew's squirrel-tail, frizzy hook-moss

[G5, SNR (rare)]

capsules unknown

on trees and rock in woods

Bergen: *C. Austin s.n.* [*Musci App.* 260] (BKL, NY, NYS, MICH, MO, PH)

Warren: *B. Andraes 8325* (KE)

***L. brachypus* Bridel** – not in NJ, see *L. andrewsianus*

capsules: Nov-Jun

on tree trunks and fallen logs

***L. julaceus* (Hedwig) Sullivant**, smooth hook-moss

[G5, SNR (probably rare)]

Some may be *L. andrewsianus*

capsules: Oct-Jun

on tree trunks and fallen logs

Atlantic: *B. Long 1349* (DUKE, PH)

Burlington: *A. Beals s.n.*, 18 Dec 1938 (MICH, NY, WTU)

Camden: *T. James s.n.*, Mar 1851 (NY)

Cumberland: *B. Long 1294* (PH)

Hunterdon: *G. Best s.n.*, 1893 (DUKE)

**Lewinskya** (Orthotrichaceae)

***L. elegans* (Schwagr.) F. Lara, Garilleti & Goffinet** – for ours see *Orthotrichum elegans*

*L. sordida* (Sullivant & Lesq.) F. Lara, Garilleti & Goffinet – see *Orthotrichum sordidum*  
*L. speciosa* (Nees) F. Lara, Garilleti & Goffinet – for ours see *Orthotrichum elegans*

*Limprichtia* (Amblystegiaceae)

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

*Lindbergia* (Leskeaceae)

*L. brachyptera* (Mitten) Kindberg, Lindberg's maple-moss

[G5, SNR (historic, rare if extant)]

capsules: Mar-Dec

tree trunks, especially roadside maples and elms

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

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

Sussex: C. Austin s.n., [*Musci App.* 268] (NY, WIS)

*Loeskeobryum* (Hylocomiaceae)

*L. brevirostre* (Bridel) Brotherus, pinched shaggy-moss, short-beaked wood-moss

[Gr, SNR (probably rare)]

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

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

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

Passaic: C. Austin 296 (NY)

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

Warren: E. Rudolph s.n., 27 May 1951 (WTU)

*Meesia* (Meesiaceae)

*M. triquetra* (Jolyclerc) Ångström, three-ranked thread-moss

[G5, SNR (historic, probably rare)]

on wet soil in marly bogs or limestone swamps

Bergen[?]: C. Austin s.n., [*Musci App.* 217] (MICH, MU, NEB, NY, PH, WIS)

*Micromitrium* (Pottiaceae)

*M. austinii* Sullivant - see *M. tenerum*

*M. megalosporum* C. Austin, crown-moss

[G4, SNR (rare or very overlooked)]

capsules: summer-winter

bare, infertile soil or lawns

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

Ocean: W. Buck 28284 (NY)

*M. synoicum* (James) C. Austin, crown-moss

[G4, SNR (historic, rare if extant)]

capsules: summer-winter

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

Bergen: *C. Austin s.n.*, 1865 (NY)  
Camden: *W. James s.n.*, Oct 1868 (FH, MO, NY)  
Gloucester: *G. Kaiser s.n.*, 17 Oct 1914 (DUKE, F, FLAS, NY, PH)

***M. tenerum* (Bruch & Schimper) Crosby**, millimeter moss

[G4, SNR (probably secure)]

capsules: summer-spring

bare soil in old fields, drying ponds, streambanks

Bergen: *C. Austin, s.n.*, [*Musci App.* 45] (MICH, NEB, NY, PH)

Burlington: *L. Anderson 27367* (DUKE, NYS, UBC)

Monmouth: *C. Haynes s.n.*, 7 Oct 1911 (NY)

Ocean: *B. Allen 16894* (MO)

***Mnium* (Mniaceae)**

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

***M. hornum* Hedwig**, lipstick thyme-moss

[G5, SNR (probably secure)]

capsules: summer

on wet soil and rocks

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

Burlington: *D. Evert 30* (PH)

Camden: *B. Long 2280* (PH)

Cumberland: *B. Long 1251* (PH)

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

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

Middlesex: *G. Tees 1018* (PH)

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

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

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

Salem: *M. Robertson 2691* (PH)

Sussex: *E. Frank NJ-42* (CHRB)

Warren: *E. Frank NJ-280* (CHRB)

***M. lycopodioides* Schwägrichen**, cliff thyme-moss

[G5, SNR (probably secure)]

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

Bergen: *E. Kiviat s.n.*, 1 Jul 2005 (Hudsonia)

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

Hudson: *T. Hartwig s.n.*, 19 Jul 2004 (Hudsonia)

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

Warren: *R. Schaeffer 102* (PH)

***M. marginatum* (Withering) Bridel** bordered thyme-moss

[G5, SNR (probably vulnerable)]

on soil in moist, shaded sites esp. near streams

Bergen: *C. Austin s.n.*, [*Musci App.* 210] (NY)

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

Ocean: *R. Wiekert 2* (NY)

Passaic: *K. Barringer 20542* (BKL, CAS, NY, VT)

Sussex: *E. Bartram 928* (DUKE, FH, NY)

Warren: *E. Frank NJ-265* (CHRB)

***M. spinulosum* Bruch & Schimper**, spiny thyme-moss

[G5, SNR (historic, rare if extant)]

on various substrates in conifer woods and swamps, calciphile

Bergen: *N. Britton 188* [*Musci App.* 209] (CHRB, NEB, WIS)

***M. stellare* Hedwig**, starry thyme-moss

[G5, SNR (probably rare)]

on moist soil, calciphile

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

Hunterdon: *B. Long 2132* (PH)

Passaic: *A. Beals s.n.*, Jun 1928 (PH)

Sussex: *E. Lawton 952* (WTU)

Warren: *B. Tan 92-210* (FH)

***Myurella* (Pterigynandraceae)**

***M. julacea* (Schwägrichen) Schimper** – ours are *M. sibirica*

***M. sibirica* (Müll. Hal.) Reimers**, verdigris mousetail, Siberian mousetail

[G5, SNR (probably rare)]

in shaded crevices of limestone cliffs

Bergen[?]: *C. Austin s.n.* [*Musci App.* 265] (MU, NY, PH, WIS)

Sussex: *E. Bartram 1008* (DUKE, FH, MO, NY, NYS)

Warren: *R. Cowan & J. Wurdack 182* (NY)

***Neckera* (Neckeraceae)**

***N. pennata* Hedwig**, shingle-moss

[G5, SNR (historic, probably rare)]

on trees or rocks in moist, coniferous woods

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

Mercer: *H. 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**, green spur-moss

[G5, SNR (rare if extant)]

capsules: late spring-summer

along streams on rocks, soil, or rotting wood

*fide* FNA

***O. wahlenbergii* Bridel**, Wahlenberg's spur-moss

[G5, SNR (probably rare)]  
capsules: late spring-summer  
rotting logs along streams  
Burlington: *M. Robertson 4769* (PH)  
Hudson: *E. Kiviat s.n.*, 5 Sep 2015 (Hudsonia)  
Sussex: *E. Lawton 1032* (WTU)

**Orthotrichum** (Orthotrichaceae)

***O. anomalum* Hedwig**, ribbed bristle-moss

[G5, SNR (probably secure)]  
not listed for NJ in FNA  
on mortar and old concrete, dry limestone, rarely on tree bases  
Bergen: *E. Kiviat s.n.*, 13 Sep 2009 (Hudsonia)  
Morris: *B. Allen 14565* (MO)  
Passaic: *E. Britton s.n.*, Jun 1888 (NY)  
Somerset: *E. Moul 6854* (CHRB, F)  
Sussex: *K. Barringer 20560* (BKL)  
Warren: *C. Darigo & D. Darigo 3525* (MO)

***O. elegans* Hooker & Greville**, showy bristle-moss

[G5, SNR (historic, rare if extant)]  
on trees, especially poplars  
Bergen: *C. Austin s.n.* [*Musci App.* 172] (BKL, MICH, NY)  
Hunterdon: *H. Fisher s.n.*, 20 Jul 1896 (PH)

***O. lescurii* C. Austin**, Lesquereux's bristle-moss

[GNR, SNR (probably rare)]  
on limestone - some specimens of *O. strangulatum* will go here  
Bergen: *C. Austin s.n.*, Dec 1867 (FH, MO, NY)  
Essex: *C. Austin s.n.*, Jun 1867 (NY)  
Hunterdon: *G. Best s.n.*, 19 Apr 1889 (NY)  
Sussex: *H. Habeeb 3676* (F)  
Warren: *M. Robertson 5999* (PH)

***O. obtusifolium* Bridel**, blunt-leaved bristle-moss

[G5, SNR (probably secure)]  
on old concrete, usually on trees, especially poplars  
Warren: *C. Darigo 3525a* (MO)

***O. ohioense* Sullivant & Lesquereux**, Ohio bristle-moss

[G5, SNR (probably vulnerable)]  
on bark of fallen trees or live trees along streams  
Bergen: *C. Austin s.n.*, 1868 (NY)  
Camden: *C. Lesquereux s.n.*, May 1856 (NY)  
Cumberland: *B. Long 1583* (DUKE, PH)  
Essex: *C. Austin s.n.*, 1867 (NY)  
Gloucester: *s.l. s.n.*, 10 May 1890 (NY)

Hudson: *C. Austin s.n.*, 13 Apr 1865 (NY)  
Hunterdon: *G. Best s.n.*, 20 Apr 1894 (NY)  
Salem: *B. Long 927* (PH)

***O. pumilum* Swartz**, dwarf bristle-moss

[G5, SNR (probably secure)]

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

Bergen: *E. Kiviat s.n.*, 15 Feb 2006 (Hudsonia)  
Camden: *T. James s.n.*, Apr 1839 (NY)  
Cumberland: *E. Matzke s.n.*, 2 Jul 1934 (NY)  
Essex: *C. Austin s.n.*, May 1867 (NY)  
Gloucester: *B. Long 1061* (PH)  
Hudson: *E. Kiviat s.n.*, 11 Jan 2007 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 15 Mar 1894 (DUKE, NY)  
Mercer: *Parke (G. Best) s.n.*, 20 Mar 1895 (NY)  
Morris: *B. Allen 14566* (MO)  
Salem: *B. Long 927a* (PH)

***O. pusillum* Mitten** tiny bristle-moss

[G5, SNR (probably secure)]

on deciduous trees, especially along streams or roads

Atlantic: *B. Long 1554* (PH)  
Bergen: *E. Kiviat s.n.*, 3 Apr 2012 (Hudsonia)  
Burlington: *H. Koster 329* (NY)  
Camden: *K. Barringer 20847* (BKL)  
Essex: *C. Austin s.n.*, May 1867 (NY)  
Hudson: *E. Kiviat s.n.*, 28 Mar 2011 (Hudsonia)  
Hunterdon: *R. Pursell 5-NJ-55* (MO)  
Passaic: *M. Sanail s.n.*, 8 May 1897 (NY)  
Salem: *B. Long 932b* (PH)

***O. sordidum* Sullivant & Lesquereux**, umbrella bristle-moss

[G5, SNR (probably secure)]

on tree bark, occasionally on limestone

Atlantic: *B. Long 1941* (PH)  
Cape May: *B. Long 2011* (PH)  
Cumberland: *B. Long 1649* (PH)  
Essex: *C. Austin s.n.*, May 1867 (FH, NY)  
Hunterdon: *W. Buck 22247* (NY)  
Salem: *B. Long 1784* (PH)  
Sussex: *E. Britton s.n.*, 10 Sep 1887 (NY)

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

***O. stellatum* Bridel**, star bristle-moss

[G5, SNR (probably secure)]

on bark of trees in moist forests and along streams

Bergen: *E. Kiviat s.n.*, 8 Nov 2004 (Hudsonia)  
Burlington: *H. Koster s.n.*, 19 May 1940 (MO, NY)



Hudson: *E. Kiviak s.n.*, 20 Feb 2014 (Hudsonia)  
Hunterdon: *G. Best s.n.*, 18 May 1894 (NY)  
Ocean: *N. 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)

***O. strangulatum* P. Beauvois**, limestone bristle-moss

[G4, SNR (probably vulnerable)]

dry, exposed, calcareous rocks and concrete

Burlington: *M. Robertson 7996* (PH)  
Hudson: *C. Austin s.n.*, 27 Nov 1865 (NY)  
Hunterdon: *J. Cantlon 324* (CHRB)  
Morris: *D. Levy s.n.*, 26 Aug 1916 (DUKE)  
Passaic: *C. Austin s.n.*, Jun 1867 (NY)  
Sussex: *E. Bartram 932* (FH)  
Warren: *B. Tan 92-137* (FH)

***Oxyrrhynchium*** (Brachytheciaceae)

***O. hians* (Hedwig) Loeske**, spare rug-moss

[G5, SNR (probably secure)]

on soil in shaded, often disturbed places

Bergen: *A. Grout 87* (BKL, DUKE, FH, ILL, NY, OS, VT, YU)  
Hunterdon: *E. Moul 187* (CHRB)  
Morris: *C. Austin s.n.*, Jun 1868 (NY)  
Ocean: *M. Robertson 4300* (PH)  
Somerset: *W. Wistendahl 17* (CHRB)  
Warren: *G. Tees 710* (PH)

***Oxystegus*** (Pottiaceae)

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

***Paraleucobryum*** (Dicranaceae)

***P. longifolium* (Ehrhart) Loeske**, silver broom moss

[G5, SNR (historic, probably rare)]

capsules: summer

on soil over rocks, outcrops, and cliffs

without locality: *C. Austin s.n.* [*Musci App. 84*] (BKL, MICH, NY, PH)  
Warren: *E. Bartram s.n.*, 20 Sep 1920 (FH)

***Phascum*** (Pottiaceae)

***P. cuspidatum* Hedwig** - see *Tortula acaulon*

***Philonotis*** (Bartramiaceae)

***P. fontana* (Hedwig) Bridel**, fountain moss

[G5, SNR (probably vulnerable)]

capsules: year-round

on rocks or soil along streams, springs and seeps

Bergen: *D. Levy 1978* (DUKE)

Hunterdon: *E. Moul 7822* (CHRB, NY, PH)

Middlesex: *W. Wiegmann 48* (NY)

Morris: *H. Habeeb & E. Moul 3713* (UBC)

Passaic: *W. Barbour s.n.*, 12 Oct 1916 (NY)

Salem: *G. Tees 1028* (PH)

Sussex: *K. Barringer 22685* (BKL)

Union: *E. Rudolph s.n.*, 14 May 1950 (OS)

Warren: *M. Robertson 34* (PH)

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

*P. marchica* (Hedwig) Bridel – ours are *P. fontana*

*P. muhlenbergii* (Schwägrischen) Bridel – ours are *P. fontana*

### **Physcomitrium** (Funariaceae)

***P. immersum* Sullivant**, urn moss

[G4, SNR (historic, rare if extant)]

capsules: late fall to spring

wet, disturbed soil

Camden: *T. James s.n.*, Nov 1864 (FH, NY, PH)

***P. pyriforme* (Hedwig) Hampe**, goblet moss

[G4, SNR (secure)]

capsules: late fall-Spring

wet, disturbed soil

Bergen: *E. Kiviat s.n.*, 17 May 2017 (Hudsonia)

Burlington: *D. Evert 4306* (PH)

Camden: *T. James s.n.*, Apr 1864 (MICH, NY)

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

Cumberland: *B. Long 1778* (NY, PH)

Essex: *H. Habeeb 3717* (F)

Gloucester: *C. Lippincott s.n., s.d.* (DUKE)

Hudson: *E. Kiviat s.n.*, 9 May 2001 (Hudsonia)

Hunterdon: *G. Best s.n.*, 5 May 1892 (NY)

Mercer: *s.l. 5*, 12 May 1919 (NY)

Middlesex: *E. Moul s.n.*, 14 Apr 1915 (PH)

Monmouth: *W. Wiegmann s.n.*, 28 Apr 1912 (NY)

Morris: *E. Britton s.n.*, 6 May 1882 (CHRB, NY)

Passaic: *D. Levy 1241* (DUKE)

Somerset: *J. Baird 1704* (CHRB)

Sussex: *H. Habeeb 3717* (MT)

Warren: *R. Cowan & J. Wurdack 177* (NY)

**Plagiomnium** (*Mniaceae*)

***P. ciliare* (Müll. Hal.) T. Koponen**, toothed thyme-moss

[G5, SNR (secure)]

Capsules spring

On soil and tree bases

- Bergen: *J. Wurdack & C. Cowan 16* (NY)
- Burlington: *K. Barringer 20695* (BKL)
- Cumberland: *B. Long 1369* (PH)
- Gloucester: *B. Long 620* (PH)
- Hudson: *E. Kiviat s.n.*, 3 Aug 2012 (Hudsonia)
- Hunterdon: *B. Tan 89-1549* (NY)
- Morris: *R. Schmidt 131* (CHRB)
- Passaic: *D. Levy s.n.*, 13 Jun 1915 (BKL)
- Somerset: *R. Wallace 82-0014* (CHRB)
- Sussex: *E. Bartram 269* (FH)

***P. cuspidatum* (Hedwig) T. Koponen**, woody moss

[G5, SNR (secure)]

capsules: spring and early summer

on soil, tree bases and rotting wood in woods

- Atlantic: *C. Reed 134461* (MO)
- Bergen: *E. Kiviat s.n.*, 15 Feb 2006 (Hudsonia)
- Burlington: *P. Majestyk & Amtoft 2428* (NY)
- Camden: *W. Longbottom 12419* (NY)
- Cape May: *W. Benner 7527* (PH)
- Cumberland: *C. Reed 134167* (MO, NY)
- Essex: *T. Githens 3666* (PH)
- Gloucester: *C. Reed 136119* (MO)
- Hudson: *E. Kiviat s.n.*, 9 Jan 2006 (Hudsonia)
- Hunterdon: *B. Long 1087* (NY, PH)
- Mercer: *B. Long 2268* (PH)
- Middlesex: *W. Wiegmann s.n.*, 2 May 1915 (NY)
- Monmouth: *C. Reed 134701* (MO)
- Morris: *H. Habeeb 3196* (UBC)
- Ocean: *M. Robertson s.n.*, 18 Apr 1962 (PH)
- Passaic: *G. Nash s.n.*, 23 Jun 1890 (NY, WTU)
- Salem: *B. Long 579* (NY, PH)
- Somerset: *E. Moul 7549* (CHRB, NY)
- Sussex: *H. Habeeb & E. Moul 3407* (UBC)
- Warren: *C. Reed 132871* (MO)

***P. ellipticum* (Bridel) T. Koponen**, marsh thyme-moss

[G5, SNR (secure)]

Capsules spring-early summer

On soil in wet, often open places

- Bergen: *E. Kiviat s.n.*, 1 July 2005 (Hudsonia)

Cumberland: *B. Long 1416* (PH)  
Gloucester: *B. Long 820* (PH)  
Hunterdon: *W. Buck 22202* (NY)  
Sussex: *G. Tees 1134* (PH)

***P. medium* (Bruch & Schimper) T. Koponen**, alpine thyme-moss

[G5, SNR (historic, rare if extant)]

Capsules spring-early summer

on various substrates in moist, coniferous woods

Essex: *C. Austin s.n.*, [*Musci App.* 206] (CHRB, MU, NY)

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

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

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

Sussex: *E. Bartram 303* (FH)

***P. rostratum* (Schrader) T. Koponen**, long-beaked thyme moss

[G5, SNR (probably rare)]

Capsules spring-summer

on damp, shaded calcareous rocks and soil

Bergen: *C. Austin s.n.*, [*Musci App.* 207] (F, MU, NY, UBC)

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

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

Somerset: *H. Webster 68250* (TENN)

Sussex: *E. Moul 7160* (CHRB)

***Plagiopus* (Bartramiaceae)**

***P. oederianus* (Swartz) Crum & Anderson**, Oeder's apple-moss

[G5, SNR (historical, probably rare)]

capsules: Jun-Sep

wet soil and rocks on seeps and wet cliffs

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

***Plagiothecium* (Plagiotheciaceae)**

***P. cavifolium* (Bridel) Iwatsuki**, round silk-moss

[G5, SNR (secure)]

capsules: summer

on shaded soil over rocks and stumps

Bergen: *E. Kiviat s.n.*, 16 Jun 2009 (Hudsonia)

Burlington: *M. Robertson 8003* (PH)

Cumberland: *B. Long 1035* (NY)

Essex: *R. Miller 1277* (NY)

Gloucester: *B. Long 770* (PH)

Hunterdon: *W. Buck 22193* (NY)

Ocean: *M. Robertson 4303* (PH)

Passaic: *K. Barringer 20641* (BKL)

Salem: *B. Long 1259* (PH)  
Somerset: *C. Austin 849* (NY)  
Sussex: *A. Grout s.n.*, May 1929 (DUKE)  
Warren: *M. Robertson 7128* (PH)

***P. denticulatum* (Hedwig) Schimper**, wet silk-moss, toothed silk-moss

[G5, SNR (secure)]

capsules: summer

on rotting wood and tree bases in woods

Atlantic: *B. Long 1307* (PH)  
Bergen: *C. Austin 354* (NY)  
Burlington: *M. Robertson 8025* (PH)  
Camden: *L. Stair s.n.*, May 1943 (PH)  
Cumberland: *B. Long 1435* (PH)  
Gloucester: *B. Long 1624* (NY, PH)  
Hunterdon: *W. Buck 22249* (NY)  
Mercer: *G. Tees 75* (PH)  
Middlesex: *W. Wiegmann 160* (BKL, NY)  
Morris: *R. Miller 1371* (NY)  
Ocean: *J. Drushel 7408* (DUKE)  
Passaic: *C. Gilly s.n.* (NY)  
Salem: *B. Long 1775* (PH)  
Sussex: *W. Wiegmann 161* (BKL, NY)  
Union: *W. Wiegmann 159* (BKL, NY)  
Warren: *E. Moul 62-152* (CHRB)

***P. laetum* Schimper**, bright silk-moss

[G5, SNR (probably secure)]

capsules: summer

rotting wood in coniferous woods

Bergen: *K. Barringer 20277* (BKL)  
Burlington: *M. Robertson 8023* (PH)  
Essex: *H. Habeeb 3053* (F)  
Gloucester: *B. Long 1624* (NY)  
Salem: *C. Reed 134563* (MO)  
Sussex: *W. Buck 21551* (NY)

***P. latebricola* Schimper**, alder silk-moss

[G3, SNR (rare)]

capsules: summer

on rotting wood and tree bases in swamps

Bergen: *C. Austin s.n.* [*Musci App.* 353] (BKL, DUKE, NY, PH)  
Hudson: *C. Austin s.n.* (NY)  
Union: *W. Wiegmann 100* (BKL, NY)

***Platydictya*** (Hypnaceae)

***P. confervoides* (Bridel) H. A. Crum**, algal thread-moss

[G4, SNR (rare)]

moist, shaded limestone rocks

Hunterdon: *B. Long 1218* (PH)

Sussex: *W. Wiegmann 876* (NY)

Warren: *M. Robertson 5981* (PH)

***P. jungermannioides* (Bridel) H. A. Crum**, false willow-moss

[G5, SNR (rare)]

damp, shaded limestone cliffs and ledges

Sussex: *N. Miller 10070* (NYS)

Warren: *W. Buck 21607* (NY)

***P. minutissima* (Sullivant & Lesquereux) H. A. Crum**, small willow-moss

[G3, SNR (historic, rare if extant)]

moist, shaded limestone or sandstone

without specific locality: *C. Austin s.n.* [*Musci App.* 343] (BKL, NY)

***P. subtilis* (Hedwig) H. A. Crum**, bark willow-moss

[G5, SNR (probably rare)]

on tree bases and rotting wood

Morris: *D. Levy s.n.*, 26 Aug 1916 (DUKE)

Passaic: *K. Barringer 20523* (BKL)

Sussex: *B. Chamberlain 6568* (MICH)

***Platygyrium*** (Pylaisiadelphaceae)

***P. repens* (Bridel) Schimper**, flat brocade-moss

[G5, SNR (secure)]

capsules: Aug-Jun

on rotting wood in shaded woods

Atlantic: *B. Long 2165* (PH)

Bergen: *E. Kiviat s.n.*, 6 Oct 2018 (Hudsonia)

Burlington: *P. Majestyk 2420* (NY)

Camden: *B. Long 1959* (PH)

Cape May: *B. Long 1697* (PH)

Cumberland: *S. Field s.n.*, 27 Feb 1990 (MO)

Essex: *H. Habeeb 3183* (F)

Gloucester: *C. Reed 136120* (MO)

Hudson: *E. Kiviat s.n.*, 6 Feb 2009 (Hudsonia)

Hunterdon: *B. Tan 89-1540* (NY)

Mercer: *G. Best s.n.*, 20 Nov 1890 (BKL)

Morris: *C. Reed 75244* (MO)

Ocean: *M. Robertson 4282* (PH)

Passaic: *D. Levy 914* (DUKE)

Salem: *M. Robertson 2695* (PH)

Somerset: *H. Webster 68065* (TENN)

Sussex: *H. Webster s.n.*, 23 Apr 1968 (CHRB)

Warren: *J. Churchill s.n.*, 16 Aug 1970 (MSC)

*Platyhypnidium* (Brachytheciaceae)

*P. riparioides* (Hedwig) Dix – see *Rhynchostegium aquaticum*

*Platylomella* (Leskeaceae)

*P. lescurii* (Sullivant) A. L. Andrews, bordered brook-moss

[G5, SNR (probably rare)]

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 (DUKE, NY)

*Pleuridium* (Ditrichaceae)

*P. acuminatum* Lindberg, taper-leaved pixie-moss

[GNR, SNR (historic, rare if extant)]

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

Camden: *T. James s.n.* [*Musci Bor.-Amer* 31b] (FH, MO, PH)

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

*P. ravenelii* C. Austin, Ravanel's pixie-moss

[G3, SNR (historic, rare if extant)]

capsules: spring – early summer

bare, sandy soil in scrub oak thickets

Burlington: *H. Koster B28* (CHRB, NY)

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

*P. subulatum* (Hedwig) Rabenhorst, needle-leaved pixie-moss

[G5, SNR (probably secure)]

on wet, sandy soil along roadsides, railroads and in ditches

Atlantic: *B. Long 2171* (PH)

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

Camden: *L. Stair s.n.*, Jun 1940 (PH)

Cape May: *B. Long 978* (PH)

Cumberland: *B. Long 648* (PH)

Essex: *H. Habeeb 3534* (MT, NYS, S)

Hunterdon: *G. Best s.n.*, 23 May 1898 (NY)

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

Middlesex: *W. Wistendahl 1593* (CHRB)

Morris: *H. Habeeb 3375* (NYS)

Ocean: *B. Long 2249* (PH)

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

Salem: *B. Long 845* (PH)

*P. sullivantii* C. Austin, Sullivant's pixie-moss

[G4, SNR (rare if extant)]

on moist sandy soil in disturbed sites, roadsides

not seen, *fide* FNA

**Pleurozium** (Hylocomiaceae)

***P. schreberi* (Bridel) Mitten**, red-stemmed feather moss, phoenix feather moss

[G5, SNR (probably secure)]

capsules: fall

on soil in cool woods and fens

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

Burlington: *M. Robertson 4778* (PH)

Gloucester: *B. Long 860* (PH)

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

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

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

Passaic: *K. Barringer 24951* (BKL)

Sussex: *T. Zanoni 25* (MO)

Warren: *E. Frank NJ-167* (CHRB)

**Pogonatum** (Polytrichaceae)

***P. brachyphyllum* (Michaux) P. Beauvois**, short-leaved hair-moss

[G5, SNR (probably secure)]

streambanks on exposed, sandy or clayey soil

Atlantic: *B. Long 1992* (PH)

Burlington: *D. Evert 40* (PH)

Camden: *H. Green 26* (NY)

Cumberland: *B. Long 1574* (PH)

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

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

Monmouth: *B. Long 1879* (PH)

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

Salem: *B. Long 2124* (PH)

***P. pensilvanicum* (Hedwig) P. Beauvois**, Pennsylvania hair-moss

[G5, SNR (secure)]

disturbed soil banks, especially streambanks

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

Burlington: *M. Robertson 7709* (PH)

Cape May: *M. Robertson 3165* (PH)

Essex: *W. Wiegmann 983* (NY)

Hunterdon: *W. Buck 22204* (NY)

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

Morris: *E. Moul 8574* (CHRB, NY)

Passaic: *K. Barringer 24705*

Somerset: *K. Barringer 22206* (BKL)

Sussex: *H. Kish 175* (NY)

Union: *W. R. Trask 86* (CONN)



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

***Pohlia*** (Mniaceae)

***P. annotina* (Hedwig) Lindberg**, pale-fruited nodding-moss

[G4, SNR (rare)]

capsules: summer

on soil in moist, open sites

Burlington: *W. Buck 28289* (NY)

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

***P. cruda* (Hedwig) Lindberg**, opal nodding-moss

[G5, SNR (historic, rare if extant)]

capsules: summer

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

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

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

Warren: *E. Frank NJ-251* (CHRB)

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

***P. lescuriana* (Sullivant) Grout**, Lesquereux's nodding-moss

[G4, SNR (rare)]

capsules: spring

moist roadbanks, streambanks, ditches, upturned tree bases

Sussex: *E. Lawton 1026* (BRIT)

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

***P. nutans* (Hedwig) Lindberg**, nodding-moss

[G5, SNR (secure)]

capsules: spring - early summer

on various wet or very moist, disturbed sites

Atlantic: *B. Long 902* (PH)

Bergen: *E. Kiviat s.n.*, 1 Jul 2005 (Hudsonia)

Burlington: *D. Evert 27* (PH)

Camden: *J. Fogg 108* (PH)

Cape May: *B. Long 2010* (PH)

Cumberland: *B. Long 776* (PH)

Essex: *H. Habeeb 3154* (F)

Gloucester: *C. Lippincott 84-5* (PH)

Hudson: *E. Kiviat s.n.*, 30 Jul 2008 (Hudsonia)

Hunterdon: *G. Best s.n.*, 28 May 1891 (NY)

Mercer: *G. Best s.n.*, 2 May 1890 (NY)

Middlesex: *E. Moul 7944* (CHRB, F, NY, PH)

Monmouth: *M. Robertson 7361* (PH)

Morris: *E. Moul 6841* (CHRB, PH)

Ocean: *B. Long 2225* (NY)

Passaic: *G. Nash 1871* (WTU)

Salem: *G. Tees 1026* (PH)  
Somerset: *H. Moldenke s.n.*, 31 May 1931 (NY)  
Sussex: *C. Reed 132854* (MO)  
Warren: *R. Schaeffer s.n.*, 18 Jun 1953 (PH)

*P. proligera* (Kindberg) Lindberg – not in NJ

*P. wahlenbergii* (F. Weber & D. Mohr) Andrews, Wahlenberg's nodding-moss

[G5, SNR (probably secure)]

capsules: spring

streambanks, ditches, around springs

Bergen: *D. Levy 2037* (DUKE)

Burlington: *M. Robertson 4794* (PH)

Mercer: *M. Anderson 124* (NY)

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

Ocean: *G. Tees 138* (PH)

Passaic: *K. Barringer 18078* (BKL)

Sussex: *E. Rudolph s.n.*, 23 Apr 1950 (OS)

Warren: *E. Chamberlain 6610* (FH, MICH)

*Polytrichastrum* (Polytrichaceae)

*P. alpinum* (Hedwig) G. Smith, alpine hair-cap

[G5, SNR (probably rare)]

On soil in shaded woods and outcrops

Warren: *E. Bartram & E. Chamberlain 1048* (FH)

*P. formosum* (Hedwig) G. Smith, bank hair-cap

[G5, SNR (historic, rare if extant)]

usually on soil in moist, coniferous forests

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

*P. ohioense* (Renauld & Cardot) G. Smith, Ohio hair-cap

[G5, SNR (secure)]

usually on soil in dry woods

Atlantic: *R. Schaeffer B4* (CHRB, PH)

Bergen: *E. Kiviat s.n.*, 25 May 2005 (Hudsonia)

Burlington: *G. Smith 11322* (MICH, NY)

Camden: *M. Robertson 4077* (PH)

Gloucester: *B. Long 2128* (NY, PH)

Hunterdon: *G. Best s.n.*, 18 Nov 1891 (NY)

Middlesex: *W. Wiegmann 23* (BKL, NY)

Monmouth: *J. Cantlon s.n.* (CHRB, NY)

Morris: *E. Moul 6853* (CHRB, NY)

Ocean: *M. Robertson 4272* (PH)

Passaic: *G. Nash s.n.*, 9 May 1890 (NY)

Salem: *C. Reed 134053* (MO)

Somerset: *W. Wistendahl 22* (CHRB)

Sussex: *T. Githens 3663* (PH)

Union: *R. Wallace 8200044* (CHRB)

Warren: *E. Frank NJ-12* (CHRB)

***P. pallidisetum* (Funck) G. Smith**, eastern hair-cap

[Gr, SNR (probably rare)]

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

Hudson: *E. Kiviat s.n.*, 6 Jul 2016 (Hudsonia)

Hunterdon: *W. Buck 22229* (NY)

Sussex: *C. Rogerson s.n.*, 19 Aug 1977 (NY)

***Polytrichum*** (Polytrichaceae)

***P. commune* Hedwig**, hair-cap moss

[G5, SNR (secure)]

on moist soil, usually in open areas

Atlantic: *B. Long s.n.*, 10 Mar 1935 (PH)

Bergen: *E. Kiviat s.n.*, 8 April 2013 (Hudsonia)

Burlington: *M. Robertson 4761* (PH)

Camden: *M. Robertson 4203* (PH)

Cape May: *B. Long s.n.*, 18 May 1934 (PH)

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

Essex: *H. Kish 193* (NY)

Hudson: *E. Kiviat s.n.*, 30 Jul 2008 (Hudsonia)

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

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

Middlesex: *J. Cohn 818* (CHRB, NY)

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

Morris: *R. Schmidt 137* (CHRB)

Ocean: *T. Zanoni 4854* (NY)

Passaic: *J. Monachino s.n.*, 9 Nov 1947 (NY)

Salem: *G. Tees s.n.*, 11 May 1934 (PH)

Somerset: *H. Moldenke 4662* (MICH)

Sussex: *C. Reed 133682* (MO)

Warren: *E. Frank NJ-246* (CHRB)

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

***P. formosum* Hedwig** – see *Polytrichastrum formosum*

***P. juniperinum* Hedwig**, Juniper haircap

[G5, SNR (secure)]

on soil in well-drained, open sites

Atlantic: *M. Robertson 3384* (PH)

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

Burlington: *M. Robertson 7947* (PH)

Camden: *M. Robertson 4206* (PH)

Cape May: *B. Long 670* (PH)

Cumberland: *B. Long 652* (ISC, NY, PH)

Essex: *W. Wiegmann 760* (NY)

Gloucester: *G. Kaiser s.n.*, 26 May 1910 (DUKE, MO, PH)  
Hunterdon: *G. Best s.n.*, 24 Jun 1890 (NY)  
Mercer: *G. Macloskie s.n., s.d.* (NY)  
Middlesex: *M. Vail s.n.*, 9 Jul 1896 (NY)  
Ocean: *E. Moul 2668* (CHRB, NY)  
Passaic: *G. Tees 1097* (PH)  
Sussex: *E. Moul 7359* (CHRB)  
Warren: *E. Frank s.n., Sep 1991* (CHRB)

*P. ohioense* **Renauld & Cardot** -- see *Polytrichastrum ohioense*

*P. pallidisetum* **Funck** – see *Polytrichastrum pallidisetum*

*P. piliferum* **Hedwig**, bristly hair-cap

[G5, SNR (probably secure)]

on dry, sandy or gravelly soil in open sites

Atlantic: *B. Long 1233* (PH)

Bergen: *C. Austin s.n.*, [*Musci App.* 239] (BKL, NY, NYS, WIS)

Burlington: *G. Kaiser s.n.*, 14 Apr 1911 (PH)

Camden: *B. Long 1357* (DUKE, PH)

Cape May: *B. Long 2007* (PH)

Cumberland: *B. Long 1728* (NY, PH)

Gloucester: *B. Long 1431* (PH)

Hudson: *E. Kiviat s.n.*, 13 Feb 2004 (Hudsonia)

Hunterdon: *H. Fisher s.n.* 18 May 1896 (PH)

Middlesex: *W. Wiegmann 115* (BKL, NY)

Monmouth: *B. Long 2348* (PH)

Ocean: *B. Long 1324* (PH)

Salem: *B. Long 2119* (PH)

Sussex: *R. Forman 10* (CHRB)

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

*P. strictum* **Bridel**, bog haircap

[G5, SNR (probably vulnerable)]

some *P. commune* probably go here

*Sphagnum* bogs, fens, and wet, rotting wood

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

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

Ocean: *A. Grout s.n.*, 8 Apr 1906 (COLO, DUKE, FH, NY)

*Pottia* (*Pottiaceae*)

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

*Pseudanomodon* (*Anomodontaceae/Thuidiaceae*)

*P. attenuatus* (**Hedwig**) **Ignatov & Fedosov** – see *Anomodon attenuatus*

*Pseudobryum* (*Mniaceae*)

*P. cinclidioides* (**Huber**) **T. Koponen**, swamp mniium, swamp thyme-moss

[G5, SNR (probably secure)]

on wet soil in swamps

without locality: *C. Austin s.n.* [*Musci App.* 214] (BKL, CHRB, NEB, NY, NYS, PH)

Morris: *K. Barringer & J. Rosenbaum 25048* (CHRB, PH)

Sussex: *A. Grout s.n.*, 25 May 1929 (DUKE)

***Pseudocampylium*** (Amblystegiaceae)

***P. radiale*** (*P. Beauvois*) *Vanderpoorten & Hedenäs*, long-stalked feather-moss

[G4, SNR (probably secure)]

capsules: spring

on wet soil and decaying leaves

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

Burlington: *B. Long 2212* (PH)

Camden: *G. Kaiser s.n.*, 27 May 1910 (PH)

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

Mercer *G. Tees 1021* (PH)

Middlesex: *C. Reed 134677* (MO)

Salem: *B. Long 578* (PH)

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

Sussex: *C. Austin s.n.* [*Musci App.* 377] (CAS, MICH, NY, PH)

Warren: *K. Barringer 25045* (BKL)

***Pseudohygrohypnum*** (Amblystegiaceae)

***P. eugyrium*** (*Schimper*) *Kanda* = *Hygrohypnum eugyrium*

***Pseudoscleropodium*** (Brachytheciaceae)

***P. purum*** (*Hedwig*) *M. Fleischer*, neat feather-moss, graveyard moss

[G5]

Not native, not yet reported but in PA and NY

Lawns, cemeteries

***Pseudotaxiphyllum*** (Hypnaceae)

***P. distichaceum*** (*Mitten*) *Iwatsuki*, two-ranked moss, scimitar silk-moss

[G4, SNR (historic, rare if extant)]

capsules: unknown

cliffs with mica, sandstone bluffs, soil banks

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

***P. elegans*** (*Bridel*) *Iwatsuki*, sprouting silk-moss

[G5, SNR (probably secure)]

capsules spring-summer

woods

Bergen: *C. Austin s.n.* [*Musci App.* 349] (BKL, MU, NY, WIS)

Burlington: *M. Robertson 7867* (PH)

Cumberland: *B. Long* 607 (PH)  
Essex: *H. Habeeb* 3186 (F)  
Hudson: *E. Kiviat s.n.*, 6 Feb 2009 (Hudsonia)  
Hunterdon: *B. Long* 2372 (PH)  
Monmouth: *C. Reed* 134694 (MO)  
Passaic: *C. Austin* 546b (NY)  
Salem: *G. Tees* 1023 (PH)  
Sussex: *W. Wiegmann s.n.*, 22 Jun 1916 (NY)  
Warren: *C. Austin s.n.* [*Musci App.* 532] (NY)

***Pterigynandrum*** (*Pterigynandraceae*)

***P. filiforme* Hedwig**, capillary wing-moss

[G5, SNR (rare if extant)]

not in NJ *fide* FNA

capsules: rare, summer

acidic boulders and rock shelves

Bergen: *C. Austin s.n.* [*Musci App.* 280] (FH, MT, MU, VT)

Essex: *s.l.* 9 (CHRB)

Sussex: *E. Moul s.n.*, 18 Oct 1950 (PH)

***Ptilium*** (*Hypnaceae*)

***P. crista-castrensis* (Hedwig) De Notaris**, knight's plume

[G5, SNR (historic, rare if extant)]

capsules: autumn

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

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

***Ptychomitrium*** (*Ptychomitriaceae*)

***P. incurvum* (Schwägrichen) Spruce**, grizzled moss

[G4, SNR (probably rare)]

capsules: winter - spring

on rocks and rarely on soil in open woods

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

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

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

Middlesex: *B. Long* 2966 (PH)

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

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

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

***Ptychostomum*** (*Bryaceae*)

***P. bimum* (Schreber) J. R. Spence**, marsh bryum

[G5, SNR (probably rare)]

capsules: summer

- on soil and rocks in wet woods  
 Bergen: *C. Austin s.n.* [*Musci App.* 201] (BKL, NY, PH)  
 Hunterdon: *G. Best s.n.*, 23 May 1891 (NY)  
 Warren: *A. Rau s.n.*, Nov 1874 (NY)
- P. cernuum* Hornschuch**, nodding bryum, swamp thread-moss  
 [G4, SNR (historic, rare if extant)]  
 on streambanks or, sometimes, rotting wood, calciphile?  
 Bergen: *C. Austin s.n.*, [*Musci App.* 196] (CAS, CHRB, NY, NYS, PH)  
 Morris: *E. Britton s.n.*, 22 Jun 1866 (CHRB)  
 Passaic: *C. Austin s.n.*, 1869 (NY)
- P. creberrimum* (Taylor) J. R. Spence**, tufted bryum, tufted thread-moss  
 [G5, SNR (secure)]  
 capsules: summer  
 on soil in disturbed places, esp. roadsides  
 Burlington: *T. Zanoni 75* (MO)  
 Cumberland: *S. Field s.n.*, 11 Jan 1990 (MO)  
 Gloucester: *B. Long s.n.*, 17 Apr 1932 (PH)  
 Hudson: *E. Kiviak s.n.*, 12 April 2009 (Hudsonia)  
 Hunterdon: *K. Barringer 20756* (BKL)  
 Middlesex: *E. Moul 7377* (PH)  
 Sussex: *E. Lawton s.n.*, 15 Oct 1950 (NY)
- P. cyclophyllum* (Schwägrischen) J. R. Spence**, round-leaved bryum  
 [G4, SNR (historic, rare if extant)]  
 swamps  
 Bergen: *C. Austin s.n.* [*Musci App.* 192] (BKL, CAS, MICH, NY, YU)
- P. pendulum* Hornsch.**, drooping thread-moss  
 [G5, SNR (historic, rare if extant)]  
 capsules: May-Aug  
 dry calcareous soil or rock  
 Bergen: *C. Austin s.n.* [*Musci App.* 196] (MICH, NEB, NY)
- P. pseudotriquetrum* (Hedwig) J. R. Spence**, marsh thread moss  
 [G5, SNR (secure)]  
 capsules: summer  
 on wet soil near streams, ponds, swamps  
 Bergen: *C. Austin s.n.* [*Musci App.* 201] (CAS, CHRB, NY, PH)  
 Burlington: *P. Majestyk & Amtoft 2419* (NY)  
 Hudson: *E. Kiviak s.n.*, 14 Apr 2012 (Hudsonia)  
 Hunterdon: *B. Long 1479* (DUKE, PH)  
 Middlesex: *E. Moul 8729* (CHRB)  
 Morris: *C. Austin s.n.*, 1867 (NY)  
 Passaic: *G. Nash s.n.* (NY)  
 Somerset: *W. Wiegmann 599* (BKL, NY, NYS)  
 Sussex: *W. Wiegmann 905* (NY)  
 Union: *G. Bard s.n.*, 27 Oct 1951 (NY)

Warren: *N. Miller 10120* (NYS)

***Pylaisia*** (Hypnaceae)

***P. intricata* (Hedwig) Schimper**, intricate paintbrush-moss

[G5, SNR (probably vulnerable)]

capsules: late summer - fall

on bark

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

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

Essex: *C. Austin s.n.*[*Musci App.* 294](BKL, NY)

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

Mercer: *B. Long 1877* (PH)

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

Sussex: *K. Barringer 18088* (BKL, DUKE, NY, VT)

Warren: *K. Barringer 18156* (BKL)

***P. polyantha* (Hedwig) Schimper**, stiff paintbrush moss

[G5, SNR (secure)]

capsules: late summer - fall

in the crotches of trees

Bergen: *E. Kiviat s.n.*, 6 Oct 2018 (Hudsonia)

Cape May: *B. Long 2011a* (PH)

Cumberland: *B. Long 1370* (PH)

Hunterdon: *W. Buck 22232* (NY)

Sussex: *E. Frank NJ-45* (CHRB)

Warren: *E. Frank NJ-274* (CHRB)

***P. selwynii* Kindberg**, paintbrush moss

[G5, SNR (probably vulnerable)]

capsules: fall

on bark

Atlantic: *B. Long 1315* (PH)

Bergen: *W. Wiegmann s.n.*, 7 Nov 1916 (NY)

Cumberland: *B. Long 1802* (PH)

Morris: *K. Barringer 22664* (BKL)

Passaic: *G. Tees 1099* (PH)

Salem: *B. Long 1455* (PH)

***Pylaisiadelpha*** (Hypnaceae)

***P. tenuirostris* (Bruch & Schimper) Buck**, gentle moss

[G5, SNR (secure)]

on bark at base of oaks

Bergen: *E. Kiviat s.n.*, 6 Oct 2018 (Hudsonia)

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

Monmouth: *A. Beals s.n.*, 14 May 1933 (NY)



Morris: *B. Allen 16247* (MO)  
Sussex: *W. 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*

***Rauiella*** (Thuidiaceae)

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

- [G4, SNR (historic, rare if extant)
- capsules: fall - early winter
- on bark of tree bases and on rotting wood
- Bergen: *C. Austin s.n.* [*Musci App.* 301](BKL, MO, NY, NYS, PH)

***Rhabdoweisia*** (Rhabdoweisiaceae)

***R. crispata* (Dickson) Lindberg**, fireworks moss

- [G5, SNR (historic, rare, if extant)
- capsules: summer
- damp, shaded cliffs
- Bergen: *C. Austin* [*Musci App.* 72] (MO, NY)
- Warren: *C. Austin s.n.*, Oct 1871 (FH, NY)

***Rhizomnium*** (Mniaceae)

***R. appalachianum* T. Koponen**, Appalachian penny moss, Appalachian thyme-moss

- [G5, SNR (probably vulnerable)]
- capsules: summer
- Swamps and watersides on soil and logs
- Bergen: *D. Levy s.n.*, 5 Jun 1915 (DUKE)
- Morris: *K. Barringer & J. Rosenbaum 28248* (CHRB, PH)
- Sussex: *K. Barringer & J. Rosenbaum 28009* (CHRB, PH)

***R. magnifolium* (Horik.) T. Koponen** - not in NJ

***R. punctatum* (Hedwig) T. Koponen**, red penny moss, dotted thyme-moss

- [G5, SNR (secure)]
- capsules: late winter - spring
- swampy woods, esp. near streams
- Bergen: *W. Weigmann 455* (NY)
- Burlington: *B. Long 1572* (PH)

Cumberland: *B. Long 1471* (PH)  
Essex: *W. Wiegmann s.n.*, 3 Nov 1916 (NY)  
Hunterdon: *T. Zanoni 51* (MO)  
Middlesex: *R. Forman s.n.*, 29 Feb 1968 (CHRB)  
Morris: *E. Frank NJ-288* (CHRB)  
Ocean: *M. Robertson 4296* (PH)  
Passaic: *E. Lawton 294* (WTU)  
Sussex: *N. Miller 10100* (NYS)

### ***Rhodobryum*** (Bryaceae)

#### ***R. ontariense* (Kindberg) Kindberg**, rose moss

[G5, SNR (secure)]

capsules: uncommon, late winter to late Fall (Feb-Nov)

rich, moist woods, often in limestone regions or on old concrete

Atlantic: *B. Long 1945* (PH)  
Bergen: *C. Austin s.n.*, 1865 (NY)  
Burlington: *D. Evert s.n.*, 29 Jun 1963 (PH)  
Cumberland: *B. Long 1538* (PH)  
Gloucester: *B. Long 2913* (PH)  
Hunterdon: *W. Buck 22182* (NY)  
Morris: *D. Levy 1008* (DUKE)  
Salem: *B. Long 1592* (DUKE, PH)  
Somerset: *E. Moul 7312* (CHRB)  
Sussex: *E. Moul 8575* (CHRB, NY)  
Union: *W. Wiegmann s.n.*, 15 Aug 1915 (NY)  
Warren: *M. Robertson 5681* (PH)

### ***Rhynchostegium*** (Brachytheciaceae)

#### ***R. aquaticum* A. Jaeger**, black brook-moss

[GNR, SNR (probably secure)]

capsules: fall

on limestone in creeks and on seepy cliffs

Bergen: *A. Beals s.n.*, Oct 1938 (MO, NY)  
Essex: *H. Habeeb 3054* (NYS)  
Mercer: *G. Best s.n.*, 14 Sep 1895 (NY)  
Morris: *I. Henley s.n.* (NY)  
Sussex: *F. Buser 12029* (NY)  
Warren: *E. Frank NJ-15* (CHRB)

#### ***R. serrulatum* (Hedwig) A. Jaeger**, beaked comb-moss

[GNR, SNR (secure)]

capsules: fall

on soil or rotting wood in moist to dry woods

Atlantic: *B. Long s.n.*, 24 Jan 1937 (PH)  
Bergen: *E. Kiviat s.n.*, 8 Nov 2004 (Hudsonia)

Burlington: *J. Allen s.n.*, 22 Aug 1879 (NY)  
Camden: *B. Long 2002* (PH)  
Cape May: *M. Robertson 4264* (PH)  
Cumberland: *S. Field s.n.* 12 Jan 1990 (MO)  
Gloucester: *B. Long 2091* (NY)  
Hudson: *E. Kiviat s.n.*, 3 Aug 2012 (Hudsonia)  
Hunterdon: *J. Cantlon s.n.*, 13 Jul 1949 (PH)  
Mercer: *G. Best s.n.*, 14 Sep 1895 (DUKE)  
Middlesex: *C. Reed 134711* (MO)  
Monmouth: *J. Small W-13* (DUKE, F, ISC, MO)  
Morris: *D. Levy s.n.*, 27 Aug 1916 (DUKE)  
Ocean: *M. Robertson 3080* (PH)  
Salem: *B. Long 1635* (NY)  
Sussex: *H. Habeeb 3444* (F)  
Warren: *M. Robertson 5980* (PH)

***Rhytidiadelphus*** (Hylocomiaceae)

***R. triquetrus* (Hedwig) Warnstorf**, shaggy gooseneck-moss, pleated shaggy-moss

[G5, SNR (probably rare)]

capsules: late winter - early spring

on soil in forests, especially coniferous forests

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

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

Sussex: *E. Frank NJ-65* (CHRB)

Warren: *s.l. 67* (PH)

***Rhytidium*** (Rhytidiaceae)

***R. rugosum* (Hedwig) Kindberg**, golden glade-moss, clifftop moss

[G5, SNR (historic, very rare if extant)]

capsules: summer

Thin soil on limestone rocks and ledges

Bergen: *C. Austin s.n.* [*Musci App.* 450] (NY, NYS, PH)

***Rosulabryum*** (Bryaceae)

***R. capillare* (Hedwig) J. R. Spence**, cluster moss

[G5, SNR (probably rare)]

capsules: summer

on soil in disturbed sites or in the crotches of trees

Bergen: *E. Kiviat s.n.*, 27 Apr 2017 (Hudsonia)

Essex: *W. Wiegmann 185* (BKL, NY)

***R. rubens* (Mitt.) J. R. Spence**, rosy bryum

[G5, SNR (rare)]

not native

capsules: Apr-Aug

on soil in disturbed sites and woods

Bergen: *E. Kiviat s.n.*, 15 Feb 2001 (Hudsonia)

***Saelania*** (Ditrichaceae)

***S. glaucescens* (Hedwig) Brotherus**, blue dew-moss

[G5, SNR (historical, rare if extant)]

capsules: summer - fall

steep roadbanks and on soil in steep rock outcrops and cliffs

Passaic: *C. Austin s.n.* [*Musci App.* 121] (BKL, NY)

***Sanionia*** (Amblystegiaceae)

***S. uncinata* (Hedwig) Loeske**, sickle-leaf moss, candy-curl moss

[G5, SNR (historic, probably extirpated)]

not in NJ *fide* FNA

on various substrates in coniferous woods

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

***Sarmentypnum*** (Calliergonaceae)

***S. exannulatum* (Schimper) Hedenas**, ringless hook-moss

[G5, SNR (probably rare)]

some of ours may be misidentified, not in NJ *fide* FNA

mineral-rich fens, spring, edges of ponds

Atlantic: *A. Grout s.n.*, Apr 1929 (DUKE)

Burlington: *W. Taylor 2688* (MICH)

Hudson: *H. Dautun s.n.*, 13 Aug 1906 (DUKE)

Sussex: *W. Wiegmann s.n.*, 18 Jun 1916 (DUKE)

Warren: *M. Robertson 5966* (PH)

***Schistidium*** (Grimmiaceae)

***S. apocarpum* (Hedwig) Bruch & Schimper**, beard moss, prickly cannikin

[G5, SNR (secure)]

capsules: late spring-summer

shaded rocks

Bergen: *E. Kiviat s.n.*, 11 Aug 2005 (Hudsonia)

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

Essex: *W. Wiegmann 981* (NY)

Hudson: *E. Kiviat s.n.*, 6 Feb 2009 (Hudsonia)

Hunterdon: *W. Buck 22198* (NY)

Middlesex: *E. Haines s.n.*, 13 Feb 1968 (CHRB)

Morris: *K. Barringer 18368* (BKL)

Salem: *B. Long 2080* (PH)

Sussex: *T. Githens 3659* (PH)

Warren: *B. Allen 1500* (MO)

***S. liliputianum* (Müll. Hal.) Deguchi**, little cannikin

[GNR, SNR (historic, rare if extant)  
capsules: late spring - summer  
on rocks

Passaic: *C. Austin s.n.*, [*Musci App.* 138] (MICH, NY)

***S. rivulare* (Bridel) Podpêra**, brook cannikin

[G5, SNR (probably rare)]  
capsules: late spring-summer  
on rocks near water

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

Hunterdon: *E. Moul 7827* (CHRB)

Morris: *K. Barringer 28245* (CHRB, PH)

Somerset: *K. Barringer 18128* (BKL, CHRB)

***S. viride* H. Blom & C. Darigo**, limestone cannikin

[GNR, SNR (secure)  
capsules: spring - summer  
on limestone and on old concrete

Atlantic: *C. Reed 134252* (MO)

Bergen: *K. Barringer 18257* (BKL)

Camden: *K. Barringer 20863* (BKL)

Cumberland: *C. Reed 134119* (MO)

Union: *K. Barringer 18131* (BKL)

Sussex: *K. Barringer 18260* (BKL)

Warren: *K. Barringer 18351* (BKL)

***Schwetschkeopsis*** (Anomodontaceae)

***S. fabronia* (Schwägrichen) Brotherus**, Rapunzel moss

[G5, SNR (probably secure)]  
capsules: rare, fall-winter  
Hardwood tree bases, on bark

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

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

Hunterdon: *W. Buck 22187* (NY)

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

Sussex: *C. Reed 133591* (MO)

Warren: *W. Buck 21573* (NY)

***Sciuro-hypnum*** (Brachytheciaceae)

***S. curtum* (Lindberg) Ignatov**, short-leaved foxtail-moss

[G5, SNR (probably rare)  
capsules: winter  
on soil in coniferous woods

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

Monmouth: *C. Reed 134700* (MO)

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

Warren: *C. Austin s.n.* [*Musci App.323*] (CAS, NY)

***S. plumosum* (Hedwig) Ignatov & Huttunen**, satin foxtail, rusty foxtail

[G5, SNR (secure)]

capsules: fall

rocks near streams, wet outcrops

Atlantic: *B. Long s.n.*, 5 Mar 1933 (PH)

Bergen: *E. Kiviat s.n.*, 14 Nov 2013 (Hudsonia)

Burlington: *B. Long s.n.*, 31 Jan 1937 (PH)

Essex: *H. Habeeb 3184* (NYS)

Hunterdon: *B. Tan 89-1539* (NY)

Mercer: *B. Long s.n.*, 17 Apr 1938 (PH)

Middlesex: *B. Long s.n.*, 24 Apr 1938

Morris: *H. Habeeb 3197* (ISC)

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

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

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

Union: *W. Trask 119W* (CONN)

Warren: *R. Schaeffer 167* (PH)

***S. populeum* (Hedwig) Ignatov & Huttunen**, matted foxtail-moss

[G5, SNR (probably rare)]

capsules: early summer

rocks and tree bases, often exposed and dry, concrete

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

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

Hunterdon: *J. Cantlon 127* (CHRB)

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

***S. reflexum* (Starke) Ignatov & Huttunen**, woodland foxtail-moss

[G5, SNR (historic, probably rare if extant)]

capsules: fall - early winter

tree bases and decaying logs

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

***Scorpidium*** (Amblystegiaceae)

***S. cossonii* (Schimper) Hedenäs**, Cosson's hook-moss

[G5, SNR (probably rare)]

capsules: late summer

wet limestone or limy soil in uplands

Warren: *M. Robertson 7143* (PH)

***S. scorpioides* (Hedwig) Limpricht** – ours are *S. cossonii*

***Seligeria*** (Seligeriaceae)

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

***S. donniana* (Smith) Müller Hal.** - ours are *S. recurvata*

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

capsules: spring - early summer  
on limestone

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

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

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

***Sematophyllum*** (Sematophyllaceae)

***S. adnatum* (Michaux) E. Britton**, bark scrap-moss

[G5, SNR (probably secure)]

not in NJ *fide* FNA

capsules: fall

tree bases in swamps

Atlantic: *B. Long 907* (PH)

Bergen: *E. Kiviat s.n.*, 14 Nov 2013 (Hudsonia)

Burlington: *K. Barringer 20692* (BKL)

Camden: *K. Barringer 20836* (BKL)

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

Gloucester: *B. Long 2185* (PH)

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

Passaic: *K. Barringer 20523* (BKL)

Salem: *B. Long 944* (PH)

Sussex: *M. Russak 7454* (PH)

Warren: *R. Schaeffer s.n.* 18 Jun 1953 (PH)

***S. demissum* (Wilson) Mitten**, curled scrap-moss, rock scrap-moss

[G5, SNR (probably secure)]

capsules: summer

on rocks near streams

Bergen: *D. Levy 1072* (DUKE)

Hudson: *E. Kiviat s.n.*, 22 Nov 2014 (Hudsonia)

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

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

Sussex: *W. Buck 21568* (NY)

Warren: *F. Buser 12044* (NY)

***Serpoleskea*** (Hypnaceae)

*S. confervoides* (Brid.) Loeske – see *Platydictya confervoides*

*S. subtilis* (Hedwig) Loeske – see *Platydictya subtilis*

***Sphagnum*** (Sphagnaceae)

***S. affine* Renaud & Cardot**, peatmoss

[G5, SNR (secure)]

capsules: summer

mineralotrophic wetlands, esp. forested mires

Burlington: *K. Barringer & W. Bien 15943* (BING, BKL, PH)

Cape May: *R. Andrus & E. Karlin 6982* (DUKE)

Cumberland: *R. Andrus & E. Karlin 7028* (DUKE)

Gloucester: *R. Andrus & E. Karlin 7087* (DUKE)

Ocean: *C. Austin s.n.* (NY)

Passaic: *K. Barringer 12602* (BKL, DUKE)

Salem: *R. Andrus & E. Karlin 7056* (DUKE)

Sussex: *K. Barringer 12332* (BING, BKL, DUKE)

***S. angermanicum* Melin**, Angerman's peatmoss

[G5, SNR (probably vulnerable)]

on sand and low on the edges of bogs, wet

Burlington: *K. Barringer 13400* (BKL, PH)

Cape May: *R. Andrus & E. Karlin 6995* (BING, DUKE, NY)

Ocean: *R. Andrus 7318* (BING, NY)

***S. angustifolium* (Russow) C. Jensen**, narrow-leaved peatmoss

[G5, S1]

cold fens and bogs on sides of hummocks

Passaic: *K. Barringer 12489* (BING, BKL, CHR, CONN, DUKE, PH)

Sussex: *K. Barringer 23093* (BKL)

Warren: *J. Shaw 10248* (DUKE)

***S. atlanticum* R. Andrus** - see *S. torreyanum*

***S. austinii* Sullivant**, Austin's peatmoss

[G5, SX]

capsules: summer

ombrotrophic mires and large hummocks

Ocean: *C. Austin s.n.* (BKL, MO, NY)

***S. bartlettianum* Warnstorf**, Bartlett's peatmoss

[G4, SNR (secure)]

capsules: late spring-summer

on wet sand in swamps and fens, often disturbed sites

Atlantic: *R. Andrus 7078* (BING, NY)

Bergen: *C. Austin 844-b* (NY)

Burlington: *K. Barringer 14162* (BKL, CHR, PH)

Cape May: *R. Andrus & E. Karlin 6998* (BING, DUKE, NY)

Cumberland: *R. Andrus & E. Karlin 7048* (BING, DUKE, NY)

Gloucester: *R. Andrus & E. Karlin 7084* (BING, DUKE, NY)

Ocean: *K. Barringer 13630* (BKL, CONN, DUKE)

Passaic: *K. Barringer 12599* (BKL, DUKE)

***S. capillifolium* (Ehrhart) Hedwig**, northern peatmoss

[G5, S2]

capsules: summer

on wet soil and rocks

Bergen: *E. Kiviati s.n.*, 5 Sep 2015 (Hudsonia)



Burlington: *J. Shaw 10215* (DUKE)  
Cumberland: *R. Andrus & E. Karlin 7059* (BING, DUKE)  
Morris: *K. Barringer & J. Rosenbaum 25038* (CHRB, PH)  
Ocean: *N. Slack 1337* (BING)  
Passaic: *K. Barringer 20488* (BKL)  
Sussex: *H. Gleason 48189* (DUKE, NY)

***S. carolinianum* R. Andrus**, Carolina peatmoss, domed peatmoss  
[G3, S2]

floating in bog depressions and sandy pools  
Burlington: *R. Andrus & T. Gordon 6772* (BING, DUKE, NY)  
Ocean: *K. Barringer 16111* (BKL)

***S. centrale* C. Jensen**, peatmoss  
[G5, S1]

capsules: uncommon-summer  
fens, especially coniferous fens and sedge fens  
Passaic: *K. Barringer 12488* (BING, BKL)  
Sussex: *E. Karlin 650* (BING, DUKE)

***S. compactum* DC.**, short-branched peatmoss  
[G5, SNR (secure)]

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

***S. contortum* Schultz**, twisted peatmoss  
[G5, S1]

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

***S. cuspidatum* Hoffman**, drowned peatmoss, drowned kittens  
[G5, SNR (secure)]

capsules: early-mid summer  
near water line in fens and bogs  
Atlantic: *K. Barringer 13589* (BKL, DUKE)  
Burlington: *K. Barringer 12418* (BKL, CHRB, PH)  
Camden: *K. Barringer 13569* (BKL)  
Cape May: *R. Andrus & E. Karlin 7010* (DUKE)  
Cumberland: *R. Andrus & E. Karlin 7049* (BING, DUKE, NY)

Ocean: *K. Barringer 19966* (BKL)

Salem: *K. Barringer 13547* (BKL)

Sussex: *K. Barringer 6511* (BKL)

***S. cribrosum* Lindberg**, ours are *S. macrophyllum*

[G5, S1 (extirpated if ever present)]

***S. cyclophyllum* Sullivant & Lesquereux**, round-leaved peatmoss

[G3, S2]

on sand in seasonally flooded, open sites, ditches

Atlantic: *M. Robertson s.n.*, 18 Aug 1962 (PH)

Burlington: *K. Barringer 16314* (BKL)

Gloucester: *B. Long 1877* (PH)

Ocean: *R. Andrus 7321* (BING, DUKE, KE, NY)

***S. fallax* (Klinggraff) Klinggraff**, flat-topped peatmoss, flat-topped bog-moss

[G5, SNR (secure)]

capsules early-mid summer

pioneer on soil or sand in poor fens

Atlantic: *C. Reed 77575b* (MO)

Burlington: *K. Barringer & W. Bien 15972* (BKL, PH)

Camden: *K. Barringer 21171* (BKL)

Cape May: *R. Andrus & E. Karlin 6987* (BING, DUKE)

Cumberland: *R. Andrus & E. Karlin 7035* (BING, DUKE)

Gloucester: *R. Andrus & E. Karlin 7094* (BING, DUKE)

Monmouth: *M. Robertson s.n.*, 21 May 1967 (PH)

Hudson: *C. Heuser s.n.*, Apr 1949 (CHRB)

Morris: *K. Barringer 16183* (BKL)

Ocean: *R. Andrus 7323* (BING, DUKE)

Passaic: *K. Barringer 23160* (BKL)

Salem: *C. Reed 134093* (MO)

Sussex: *K. Barringer 24352* (BKL)

***S. fimbriatum* Wilson & Hooker**, fringed bog-moss, fringed peatmoss

[G5, SNR (secure)]

capsules: late spring - summer

on soil at the edge of ponds, bogs

Atlantic: *C. Reed 77575a* (MO)

Bergen: *E. Kiviat s.n.*, 22 Sep 2015 (Hudsonia)

Burlington: *K. Barringer 12390* (BKL, PH)

Cumberland: *R. Andrus 5879* (BING, DUKE, NY)

Hudson: *E. Kiviat s.n.*, 5 Sep 2015 (Hudsonia)

Monmouth: *S. Dubois s.n.*, 25 Oct 1985 (DUKE)

Morris: *K. Barringer & J. Rosenbaum 28038* (CHRB, PH)

Ocean: *K. Barringer 22108* (BKL)

Passaic: *K. Barringer 14772* (BKL)

Salem: *R. Andrus & E. Karlin 7058* (BING, DUKE, NY)

Sussex: *K. Barringer 17370* (BKL)

Union: *K. Barringer 18755* (BKL)  
Warren: *K. Barringer 20977* (BKL)

***S. flavicomans* (Cardot) Warnstorff**, northeastern peatmoss, golden-brown peatmoss

[G5, SNR (secure)]

capsules: summer

swamps, pond edges, usually high up on hummocks

Atlantic: *C. Reed 134022* (MO)

Burlington: *K. Barringer & W. Bien 15934* (BKL, PH)

Camden: *K. Barringer 13570* (BKL)

Cape May: *R. Andrus & E. Karlin 6988* (BING, DUKE, NY)

Cumberland: *R. Andrus & E. Karlin 7066* (NY)

Middlesex: *A. Andrews s.n.* 30 Aug 1913 (NY)

Morris: *K. Barringer & J. Rosenbaum 24782* (CHRB, PH)

Ocean: *K. Barringer 16115* (BKL)

Passaic: *K. Barringer 12601* (BKL, CHRB)

Salem: *C. Reed 134100* (MO)

Sussex: *R. Andrus & E. Karlin 6835* (BING, DUKE, NY)

Warren: *J. Shaw 10242* (DUKE, S)

***S. flexuosum* Dozy & Molkenboer**, peat moss

[G5, SNR (secure)]

capsules: summer

sedge fens and edges of open wetlands

Atlantic: *R. Andrus 7077* (NY)

Burlington: *D. Ulmer s.n.*, Jun 1950 (DUKE)

Cape May: *R. Andrus 6987* (NY)

Cumberland: *R. Andrus 7050* (NY)

Gloucester: *R. Andrus 7094* (NY)

Passaic: *E. Karlin 198* (BING)

Sussex: *K. Barringer 16550* (BKL)

Warren: *E. Karlin 824* (BING, NY)

***S. fuscum* (Schimper) Klinggraff**, tawny peatmoss

[G5, S2]

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: *K. Barringer 15997* (BKL)

Warren: *J. Shaw 10240* (DUKE)

***S. girgensohnii* Russow**, Girgensohn's peatmoss, graceful peatmoss

[G5, SNR (secure)]

capsules: late summer

on soil in swamps, wet forests, shaded streams

Bergen: *K. Barringer 20273* (BKL)

Morris: *K. Barringer & J. Rosenbaum 28034* (CHRB, PH)  
Passaic: *K. Barringer 20471* (BKL)  
Sussex: *K. Barringer 23589* (BKL)

*S. henryense* Warnstorff - see *S. palustre*

*S. imbricatum* Hornsch., peatmoss

[GNR, SNR (secure)]

Atlantic: *D. Eaton 152* (COLO, FH, MIN, NY, PH, TENN, VT, YU)  
Bergen: *W. Wiegmann 459* (NY)  
Burlington: *K. Barringer 12391* (BKL, NY)  
Cape May: *W. Johnson 817* (PH)  
Cumberland: *B. Long 1145* (PH)  
Gloucester: *B. Long 818* (PH)  
Ocean: *C. Austin s.n. 1863* (MICH, NY, WIS, YU)  
Salem: *R. Andrus 7056* (NY)  
Sussex: *R. Andrus 6805* (NY)

*S. inundatum* Russow, peatmoss

[G4, SNR (probably vulnerable)]

edges of streams and pods, dripping rock faces

Atlantic: *K. Barringer 16282* (BKL)  
Burlington: *J. Shaw 10229* (DUKE)  
Cape May: *R. Andrus & E. Karlin 7008* (BING)  
Morris: *K. Barringer 23535* (BKL)  
Passaic: *E. Karlin 484* (BING)  
Sussex: *R. Andrus 7362* (BING)

*S. isoviitae* Flatberg, Isoviita's peatmoss

[GNR, SNR (probably secure)]

probably not distinct from *S. fallax*

poor to medium fens

Burlington: *K. Barringer & W. Bien 15929* (BKL)  
Cape May: *R. Andrus & E. Karlin 6985* (BING, NY)  
Cumberland: *R. Andrus 7024* (BING, MO)  
Hunterdon: *J. Mitchell 688* (NY)  
Ocean: *R. Andrus 7323* (BING, NY)  
Sussex: *R. Andrus & E. Karlin 6033* (BING, NY)

*S. lescurii* Sullivant, Lesquereux's peatmoss, yellow peatmoss

[G5, SNR (probably secure)]

poor to medium fens, wet, disturbed sites

Atlantic: *C. F. Reed 4487* (MO)  
Burlington: *R. Andrus 7309* (BING, DUKE)  
Camden: *M. Robertson 4075* (PH)  
Cape May: *J. Shaw 13610* (DUKE)  
Cumberland: *R. Andrus 5851* (BING, DUKE)  
Hunterdon: *K. Barringer 13716* (BING, BKL, CONN, DUKE)  
Morris: *K. Barringer & J. Rosenbaum 28039* (CHRB, PH)

Passaic: *K. Barringer 12578* (BING, BKL, DUKE)  
Salem: *C. Reed 134055* (MO)  
Sussex: *E. Karlin 209* (BING)  
Warren: *E. Karlin 803* (BING)

***S. macrophyllum* Bridel**, large-leaf peatmoss

[G5, S2]

shallow lakes and ponds

Burlington: *K. Barringer 12409* (BKL, CHRB, DUKE, PH)  
Cape May: *R. Andrus & E. Karlin 7009* (NY)  
Ocean: *R. Andrus 7313* (BING, NY)

***S. magellanicum* Bridel**, Magellanic peatmoss, magenta peatmoss

[G5, SNR (secure)]

capsules mid summer

widespread in fens and bogs

Atlantic: *R. Andrus & E. Karlin 7076* (BING, NY)  
Burlington: *K. Barringer 11977* (BING, BKL, PH)  
Camden: *K. Barringer 20886* (BKL)  
Cumberland: *R. Andrus & E. Karlin 7063* (BING, NY)  
Morris: *T. Nash s.n.* (NY)  
Ocean: *K. Barringer 16120* (BKL)  
Sussex: *K. Barringer & J. Rosenbaum 28014* (CHRB, PH)  
Warren: *J. Shaw 10244* (DUKE)

***S. majus* ssp. *majus* (Russow) C. Jensen**

floating mats with *S. cuspidatum*

*fide* FNA

***S. majus* ssp. *norvegicum* Flatberg (S1.1)**

floating mats and lake edges

Bergen: *E. Karlin 9410-0804a* (BING, TRH)

***S. molle* Sullivant**, blushing peatmoss

[G4, SNR (probably secure)]

capsules summer

on sand in fens and dune depressions, periodically dry sites

Burlington: *K. Barringer 17952* (BKL, PH)  
Cape May: *R. Andrus & E. Karlin 7002* (BING, NY)  
Cumberland: *R. Andrus & E. Karlin 7065* (BING, NY)  
Ocean: *E. Boomhour 1009* (DUKE)  
Salem: *B. Long 1193* (PH)

***S. mississippiense* R. Andrus** - see *S. cuspidatum*

***S. palustre* L.**, common peatmoss

[G5, SNR (secure)]

capsules: summer

widespread in fens and bogs

Bergen: *E. Kiviat s.n.*, 22 Sep 2015 (Hudsonia)  
Burlington: *K. Barringer 12104* (BKL, PH)

Cape May: *C. Reed 134578* (MO)  
Cumberland: *K. Barringer 13602* (BKL, CHRB, CONN)  
Hudson: *E. Kiviak s.n.*, 5 Sep 2015 (Hudsonia)  
Morris: *K. Barringer & J. Rosenbaum 28004* (CHRB, PH)  
Ocean: *K. Barringer 20001* (BKL)  
Passaic: *K. Barringer 14825* (BKL, CONN, DUKE)  
Salem: *C. Reed 134095* (MO)  
Sussex: *K. Barringer & J. Rosenbaum 28015* (CHRB, PH)  
Warren: *K. Barringer 22700* (BKL)

***S. papillosum* Lindberg**, ochre peatmoss

[G5, SNR (probably secure)]

capsules summer

poor fens and bogs

Atlantic: *R. Andrus & E. Karlin 7079* (BING, NY)

Burlington: *K. Barringer 13324* (BKL, DUKE, PH)

Cape May: *R. Andrus & E. Karlin 6993* (BING, NY)

Cumberland: *R. Andrus & E. Karlin 7069* (BING, NY)

Gloucester: *R. Andrus & E. Karlin 7088* (BING, NY)

Ocean: *K. Barringer 13634*

***S. perichaetiale* Hampe**, bract peatmoss

[G5, S2]

capsules: late spring to early summer

wet depressions in sand, especially where burned

Atlantic: *H. Koster SP 43* (NY)

Burlington: *K. Barringer 12663* (BKL, DUKE, NY)

Cumberland: *B. Long 730* (PH)

Ocean: *K. Barringer 16106* (BKL)

***S. platyphyllum* (Lindberg) Warnstorf**, flat-leaved peatmoss

[G5, S1]

capsules: late spring-summer

on soil in open, seasonally flooded sites, pond margins

Bergen: *E. Karlin 8809* (DUKE)

Burlington: *R. Andrus 6628* (BING, NY)

Sussex: *K. Barringer 6452*

***S. portoricense* Hampe**, Puerto Rican peatmoss

[G5, S2]

swamps, stream channels, and shallow ponds

Burlington: *K. Barringer 12405*

Cape May: *R. Andrus & E. Karlin 6983* (BING, NY)

Ocean: *H. Andrews s.n.*, Sep 1913 (NY)

***S. pulchrum* (Lindberg) Warnstorf**, golden bog-moss, feathery peatmoss

[G5, SNR (secure)]

capsules: late summer-fall

Atlantic: *H. Koster 52* (NY)

Burlington: *K. Barringer 13271* (BKL, NY, PH)  
Camden: *K. Barringer 13568* (BKL)  
Cape May: *R. Andrus & E. Karlin 6986* (BING, NY)  
Cumberland: *R. Andrus & E. Karlin 7061* (BING, NY)  
Ocean: *K. Barringer 16117* (BKL)

***S. pylaesii* Bridel**, creeping peatmoss, simple peatmoss

[G4, SNR (secure)]

pioneer on wet rocks, ditches, disturbed sites

Atlantic: *E. Britton s.n.*, 30 Mar 1893 (NY)  
Burlington: *K. Barringer 13487* (BKL, DUKE, PH)  
Gloucester: *C. Lippincott s.n., s.d.* (DUKE)  
Ocean: *L. Anderson 27364* (DUKE)  
Sussex: *H. Gleason 48188* (DUKE)

***S. quinquefarium* (Lindberg) Warnstorf**, five-ranked peatmoss

[G5, S1.1]

capsules: summer

on wet rocks and soil, especially in conifer woods

Cumberland: *R. Andrus 7021* (DUKE)  
Ocean: *D. Eaton s.n., s.d.* (NY, YU)

***S. recurvum* P. Beauvois**, wrinkled-leaf peatmoss

[G5, SNR (secure)]

capsules: uncommon, late summer-fall

carpets on acidic, nutrient-poor sites

Atlantic: *R. Andrus & E. Karlin 7077* (BING, NY)  
Bergen: *C. Austin 795* (NY)  
Burlington: *K. Barringer & J. Ma 12016* (BKL, DUKE)  
Camden: *K. Barringer 20885* (BKL, DUKE)  
Cape May: *R. Andrus & E. Karlin 6987* (BING, NY)  
Cumberland: *R. Andrus & E. Karlin 7035* (BING, NY)  
Gloucester: *K. Barringer 13553* (BKL)  
Monmouth: *K. Barringer 14969* (BKL)  
Morris: *K. Barringer & J. Rosenbaum 28052* (CHRB, PH)  
Ocean: *K. Barringer 16112* (BKL)  
Passaic: *K. Barringer 12487* (BKL, CHRB, CONN, DUKE)  
Salem: *K. Barringer 13548* (BKL)  
Sussex: *K. Barringer 16000* (BKL)

***S. riparium* Ångström**, cleft bog-moss, cleft peatmoss

[G5, S1]

carpets on sandy soil

Sussex: *R. Andrus & E. Karlin 6836* (DUKE, NY)

***S. rubellum* Wilson**, red peatmoss

[G5, SNR (secure)]

capsules: summer

carpets in fens and bogs

Burlington: *L. Anderson 27382* (DUKE)

Camden: *W. Taylor s.n., s.d.* (DUKE)

Ocean: *R. Andrus 3600* (BING, MO)

***S. russowii* Warnstorff**, Russow's peatmoss

[G5, SNR (secure)]

capsules: late spring-summer

on shaded soil in woods, usually conifer woods

Burlington: *L. Anderson 27363* (DUKE)

Ocean: *R. Andrus 3574* (MO)

Passaic: *K. Barringer 18020* (BKL)

Sussex: *R. Andrus & E. Karlin 6817* (BING, DUKE, NY)

Warren: *J. Shaw 10241* (DUKE, UBC)

***S. squarrosus* Crome**, shaggy peatmoss

[G5, S2]

capsules: early-mid summer

on soil in swamps, stream margins

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

Morris: *K. Barringer & J. Rosenbaum 28002* (CHRB, PH)

Passaic: *K. Barringer 20496* (BKL)

***S. strictum* Sullivant**, pale peatmoss, pale bog-moss

[G5, S1]

capsules: early-mid summer

wet, exposed sand and burned over spots

Atlantic: *H. Koster S144* (NY)

Burlington: *R. Andrus 7301* (BING, DUKE, NY)

***S. subfulvum* Sjors**, fulvous peatmoss

[G5, S1.1]

capsules: summer

on soil in shrub swamps

Sussex: *E. Karlin 9603-2001* (BING, TRH)

Warren: *J. Shaw 10236* (DUKE)

***S. subsecundum* Nees**, orange peatmoss

[G5, S1]

on soil at the edges of ponds, swamps, open pools

Atlantic: *H. Koster 56* (NY)

Bergen: *C. Austin s.n., [Musci App. 27]* (NY)

Burlington: *K. Barringer & J. Ma 11973* (BKL)

Middlesex: *W. Wiegmann 285* (NY)

Morris: *K. Barringer & J. Rosenbaum 24972* (CHRB, PH)

Ocean: *R. Weikert s.n.* (NY)

Sussex: *R. Andrus & E. Karlin 6818* (BING, DUKE, NY)

Warren: *B. Allen 1497* (MO)

***S. subtile* (Russow) Warnstorff**, slender peatmoss



[G5, S2]

capsules late summer-fall

shaded fens and wet conifer woods

Burlington: *R. Yahr 3000b* (DUKE)

Ocean: *R. Andrus 103* (DUKE, MSC, NY)

Sussex: *R. Andrus 7370* (BING, KE, MCTC, MO)

Warren: *E. Karlin 1246* (BING)

***S. tenellum* (Bridel) Bory**, delicate peatmoss

[G5, S2]

capsules: summer

wet depressions in bogs and sandy swamps

Atlantic: *H. Koster 24* (NY)

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

Burlington: *K. Barringer 17277*

Cumberland: *R. Andrus & E. Karlin 7059* (BING, NY)

Ocean: *R. Andrus 7293* (BING, NY, TRH)

Sussex: *R. Andrus & E. Karlin 6814* (BING, NY)

***S. tenerum* Sullivant**, tender peatmoss

[G5, SNR (secure)]

on wet sand at bog, swamp, or pond edges and disturbed sites

Atlantic: *R. Andrus & E. Karlin 7080* (BING, NY)

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

Burlington: *K. Barringer 12437* (BKL, DUKE)

Camden: *K. Barringer 20833* (BKL)

Cumberland: *K. Barringer 13603* (BKL)

Morris: *K. Barringer 16184* (BKL)

Ocean: *K. Barringer & D. Barringer 18978* (BKL, DUKE)

Sussex: *K. Barringer 6515* (BKL)

***S. teres* (Schimper) Ångström**, rigid peatmoss

[G5, S2]

capsules late spring-early summer

on soil in rich fens sometimes on basic soils

Sussex: *R. Andrus & E. Karlin 6827* (BING, NY)

Warren: *J. Shaw 10239* (DUKE)

***S. torreyanum* Sullivant**, Torrey's peatmoss, Torrey's bog-moss

[G5, SNR (secure)]

sandy or peaty streams and wet depressions in bogs and swamps

Atlantic: *K. Barringer 16279* (BKL)

Bergen: *C. Austin 18* (NY)

Burlington: *K. Barringer & W. Bien 15939* (BKL, CONN, DUKE)

Camden: *K. Barringer 20876* (BKL)

Cape May: *J. Shaw 13606* (DUKE)

Cumberland: *K. Barringer 13601* (BKL, DUKE)

Gloucester: *R. Andrus & E. Karlin 7085* (NY)

Monmouth: *K. Barringer 22842* (BKL)  
Ocean: *K. Barringer 19967* (BKL)  
Passaic: *K. Barringer 12564* (BKL, CHRB, CONN, NYS)  
Sussex: *K. Barringer 20615* (BKL, DUKE, NY)

***S. trinitense* Müll. Hal.**, Trinidad peat moss

[G4, SNR (probably secure)]

capsules: summer

submersed in sandy ponds and ditches

Atlantic: *H. Koster 584* (NY)

Burlington: *R. Andrus 5885* (BING, NY)

Cape May: *R. Andrus & E. Karlin 7010* (BING, NY)

Cumberland: *R. Andrus & E. Karlin 7030* (BING, NY)

Gloucester: *R. Andrus & E. Karlin 7093* (BING, NY)

Ocean: *R. Andrus 7315* (BING, NY)

***S. viride* Flatberg**, peat moss

[GNR, SNR (rare)]

carpets in weakly mineralotrophic mires

Cape May: *R. Andrus & E. Karlin 6996* (NY)

***S. warnstorffii* Russow**, Warnstorff's peatmoss

[G5, S2]

on wet soil, often with conifers

Burlington: *K. Barringer 12061* (BKL, CHRB, DUKE)

Warren: *J. Shaw 10237* (DUKE)

***Splachnum*** (Splachnaceae)

***S. ampullaceum* Hedwig**, cruet dung-moss

[G5, SNR (rare)]

capsules: summer

old herbivore dung, in peat bogs and swamps

Burlington: *E. Tatnall s.n.*, s.d. (PH)

***S. pensylvanicum* (Bridel) Grout**, Pennsylvania dung-moss, southern dung-moss

[G4, SNR (rare)]

capsules: winter-spring

herbivore dung in swamps and bogs

Burlington: *B. Greene s.n.*, May 1831 (NY)

Monmouth: *L. Underwood s.n.*, Jul 1885 (FH, NY)

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

***Stereocleus*** (Brachytheciaceae)

***S. serrulatus* (Hedwig) H. Robinson** - see *Rhynchostegium serrulatum*

***Stereodon*** (Hypnaceae)

*Stereodon pratensis* (Koch) Warnstorf = *Hypnum pratense*

**Syntrichia** (Pottiaceae)

***S. papillosa* (Wilson) Juratska**, marble screw-moss

[G5, SNR (probably rare)]

capsules: unknown

on bark of trees or in limestone crevices

Burlington: *T. Porter s.n., s.d.* (CHRB)

Hudson: *s.l. s.n.*, 20 Aug 1866 (NY)

Hunterdon: *B. Allen 31176* (MO)

***S. ruralis* (Hedwig) F. Weber & D. Mohr**, sidewalk screw-moss

[G5, SNR (probably secure)]

capsules: spring

on dry to moist soil, traprock, calcareous rocks and concrete

Bergen: *E. Kiviat s.n.*, 14 April 2012 (Hudsonia)

Sussex: *C. Austin s.n.* [*Musci App.* 131] (BKL, CAS, NY)

**Taxiphyllum** (Hypnaceae)

***T. deplanatum* (Sullivant) Fleischer**, sprouting silk-moss

[G4, SNR (probably rare)]

capsules: fall, uncommon

shaded rocks or soil, often on tree roots or bases

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

Sussex: *B. Tan 92-128* (FH)

Union: *W. Trask 203* (CONN)

Warren: *G. Tees 706* (PH)

***T. taxirameum* (Mitten) Fleischer**, yew-leaf moss

[G4, SNR (historic, rare if extant)]

capsules: spring - early summer

on shaded rock or soil

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

Hunterdon: *G. Best s.n.*, 28 Aug 1906 (NY)

Sussex: *s.l. s.n.*, 25 Aug 1890 (NY)

**Tetraphis** (Tetraphidaceae)

***T. pellucida* Hedwig**, four-tooth moss, stump moss

[G5, SNR (secure)]

capsules: spring - early summer, but can persist until winter  
on rotting wood

Atlantic: *R. Forman B123* (CHRB, PH)

Bergen: *K. Barringer 21736* (BKL)

Burlington: *G. Best s.n.*, 19 Jun 1897 (NY)

Camden: *M. Robertson 6685* (PH)

Cumberland: *B. Long 1168* (PH)  
Gloucester: *C. Lippincott s.n.*, 7 May, 1899 (DUKE, PH)  
Hunterdon: *J. Cantlon 340* (CHRB)  
Middlesex: *E. Moul 6641* (CHRB, F, PH)  
Monmouth: *E. Britton s.n.*, 15 May 1910 (DUKE, NY)  
Morris: *K. Barringer 18245* (BKL, DUKE, NY)  
Ocean: *K. Barringer 13626* (BKL)  
Passaic: *G. Tees 1106* (PH)  
Salem: *C. Reed 134558* (MO)  
Sussex: *W. Niering 7447* (CHRB)  
Union: *K. Barringer 20090* (BKL)  
Warren: *E. Frank NJ-82* (CHRB)

***Tetraplodon*** (Splachnaceae)

*T. angustatus* (Hedwig) Bruch & Schimper – not in NJ *fide* FNA

*T. mnioides* (Hedwig) Bruch & Schimper, nitrogen moss

[G5, SNR (historical, rare if extant)]

capsules: late summer

owl pellets, carnivore dung, carcasses

Burlington: *T. James s.n.*, Jun 1851 (ILL, MU, PH, S, YU)

***Thamnobryum*** (Neckeraceae)

*T. alleghaniense* (Müll. Hal.) Nieuwland, shrub-moss, Alleghany shrub-moss

[G5, SNR (probably secure)]

capsules: fall

dripping rocks

Bergen: *W. Weigmann 67* (BKL, NY)

Hunterdon: *G. Best s.n.*, 20 Sep 1909 (NY)

Morris: *E. Frank 202* (CHRB)

Sussex: *W. Buck 21558* (NY)

Union: *E. Lawton 1543* (WTU)

Warren: *J. Churchill B7032824* (MSC)

***Thelia*** (Theliaceae)

*T. asprella* Sullivant, alligator-moss

[G5, SNR (probably secure)]

bark of hardwoods, esp. near base, in dry, open woods

Atlantic: *M. Robertson 4270* (PH)

Bergen: *S. Jelliffe s.n.*, 17 Nov 1887 (BKL, NY)

Burlington: *G. Best s.n.*, 19 Jun 1897 (NY)

Camden: *M. Robertson s.n.*, 16 Aug 1962 (PH)

Cape May: *M. Robertson 4267* (PH)

Cumberland: *B. Long 642* (NY, PH)

Hunterdon: *J. Cantlon & E. Moul 293* (CHRB, NY, PH)  
Mercer: *G. Best s.n.*, 23 Nov 1894 (NY)  
Monmouth: *J. Small s.n.*, 14 Apr 1894 (NY)  
Morris: *C. Austin s.n.*, Aug 1867 (NY)  
Ocean: *J. Small s.n.*, 14 Apr 1894 (NY)  
Salem: *B. Long 1199* (NY, PH)  
Sussex: *E. Moul 7159* (PH)  
Warren: *A. Beals s.n.*, Nov 1929 (DUKE)

***T. hirtella* (Hedwig) Sullivant**, train-track moss

[G5, SNR (secure)]

capsules: fall

bark of hardwoods, esp. near base, in dry, open woods

Atlantic: *M. Robertson 6020* (PH)  
Bergen: *C. Austin s.n., s.d.* (BKL, MO, NY, NYS)  
Burlington: *G. Kaiser 5005* (DUKE, MICH, PH)  
Camden: *K. Barringer 21184* (BKL, VT)  
Cumberland: *B. Long 1118* (NY, PH)  
Cape May: *B. Long 1555* (DUKE, PH)  
Essex: *W. Wiegmann s.n.*, 15 Mar 1917 (NY)  
Gloucester: *C. Lippincott s.n.*, 7 May 1899 (DUKE)  
Hunterdon: *G. Best s.n.*, 11 Dec 1898 (NY)  
Monmouth: *W. Wiegmann s.n.*, 28 Apr 1912 (NY)  
Ocean: *J. Copeland 665* (NY)  
Salem: *B. Long 1187* (NY, PH)  
Union: *F. Wynne 2700* (NY)

***T. lescurii* Sullivant**, velvet-moss

[G5, SNR (probably rare)]

sandy soil, rock outcrops

Atlantic: *B. Long 1306* (PH)  
Burlington: *E. Rau s.n.* (NY)  
Camden: *B. Long 1960* (PH)  
Cape May: *B. Long 676* (PH)  
Cumberland: *B. Long 1263* (PH)  
Hunterdon: *B. Long 1088* (PH)

***Thuidium*** (Thuidiaceae)

***T. alleniorum* Austin** - not reported but possible in coastal plain swamps

***T. delicatulum* (Hedwig) BSG**, delicate fern-moss

[G5, SNR (secure)]

capsules: fall and winter

on various substrates in moist, shaded spots

Bergen: *E. Kiviat s.n.*, 14 Nov 2013 (Hudsonia)  
Burlington: *J. Cantlon s.n.* (CHRB, NY)  
Cape May: *E. Moul 6162* (CHRB, NY)

Cumberland: *B. Long 793* (PH)  
Gloucester: *E. Gadsby s.n.*, 8 Oct 1910 (PH)  
Hudson: *E. Kiviak s.n.*, 14 Nov 2013 (Hudsonia)  
Hunterdon: *J. Cantlon 296* (CHRB)  
Mercer: *G. Best s.n.*, 24 Jun 1890 (NY)  
Middlesex: *J. Cohn 1018* (CHRB)  
Monmouth: *K. Barringer 21593*  
Morris: *E. Moul 6849* (CHRB)  
Ocean: *M. Robertson 4290* (PH)  
Passaic: *K. Barringer 20498* (BKL)  
Salem: *B. Long 704* (PH)  
Somerset: *S. Stephenson 1725* (CHRB)  
Sussex: *K. Barringer 24665* (BKL, DUKE, VT)  
Warren: *E. Moul 6186* (CHRB)

*T. minutulum* (Hedwig) Schimper – see *Cyrto-hypnum minutulum*

*T. philibertii* Limpricht - not in NJ, ours are *T. delicatulum*

*T. pygmaeum* Schimper – see *Cyrto-hypnum minutulum*

*T. recognitum* (Hedwig) Lindberg, hook-leaved fern-moss  
[G4, SNR (probably secure)]

various substrates in moist, shaded spots, calciphile

Bergen[?]: *C. Austin 5* (NY)

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

Sussex: *K. Barringer 21095* (BKL)

Warren: *M. Robertson 4540* (PH)

*T. tamariscanum* (Hedwig) BSG - early NJ reports are *Abietinella abietinum*

### *Timmia* (Timmiaceae)

*T. megapolitana* Hedwig, warrior moss,

[G5, SNR (historic, probably rare)]

capsules: always

on soil in woods, especially calcareous soils, occasionally on golf courses and cemeteries

Hunterdon: *G. Best s.n.*, 30 Apr 1891 (DUKE, NY)

Morris: *C. Austin s.n.*, 14 Aug 1867 (NY)

Sussex: *W. Wiegmann 881* (DUKE, NY)

### *Tomentypnum* (Brachytheciaceae)

*T. nitens* (Hedwig) Loeske, golden fen -moss

[G5, SNR (historical, rare if extant)]

capsules: summer

cool, calcareous fens and swamps, black spruce bogs

Sussex: *C. Austin s.n.* [*Musci App.* 307] (BKL, NEB, NY)

Warren: *Beals & M. Beals 504* (MO)

### *Torrentaria* (Brachytheciaceae)

*T. riparioides* (Hedwig) Ochyra – see *Rhynchostegium aquaticum*

**Tortella** (Pottiaceae)

***T. fragilis* (Hooker & Wilson) Limpricht**, fragile screw-moss

[G5, SNR (historical, rare if extant)]

capsules uncommon, summer

seasonally dry sites, often on calcareous rocks and ledges

Sussex: *C. Austin s.n.* [*Musci App.* 129] (BKL, NY, PH)

***T. humilis* (Hedwig) Jennings**, small screw-moss, tornado-moss

[G5, SNR (secure)]

capsules: spring

on soil or tree bases, sometimes on old mortar or concrete

Atlantic: *M. Robertson 4269* (PH)

Bergen: *W. Wiegmann 196* (BKL, NY)

Burlington: *J. Cantlon s.n.*, 21 May 1950 (CHRB, PH)

Camden: *B. Long: 1958* (PH)

Cape May: *M. Robertson 2084* (PH)

Cumberland: *B. Long: 708* (PH)

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

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

Ocean: *B. Long 1328* (PH)

Salem: *B. Long 969* (PH)

Somerset: *E. Moul 6714* (CHRB)

Sussex: *H. Habeeb 3655* (F, NYS)

Warren: *R. Cowan and J. Wurdack 176* (NY)

*T. tortuosa* (Hedwig) Limpricht

**Tortula** (Pottiaceae)

***T. acaulon* (Withering) R. H. Zander**

[G5, SNR (historic, rare if extant)]

capsules: winter-spring

open sites, soil, lawns, fields, roadbanks

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

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

Essex: *H. Habeeb 3329* (F)

Mercer: *E. Chamberlain & E. Gadsby 4592* (FH, NY)

Monmouth: *C. Reed 134689* (MO)

***T. muralis* Hedwig**, wall screw-moss

[G5, SNR (probably rare)]

capsules: spring-summer

calcareous rock, cement in walls

Bergen: *E. Kiviat s.n.*, 14 Apr 2016 (Hudsonia)

Essex: *s.l. 60* (NY)

Hudson: *E. Kiviat s.n.*, 20 Jun 2013 (Hudsonia)

Middlesex: *E. Moul 7455* (CHRB, PH)  
Monmouth: *C. Reed 134689* (MO)  
Passaic: *G. Nash s.n.*, 11 Nov 1893 (NY)  
Somerset: *H. Webster s.n.*, 9 Apr 1968 (CHRB, F, UT)  
Union: *E. Lawton 575* (WTU)

***T. obtusifolia* (Schwägrichen) Mathieu**, blunt-leaved screw-moss

[G5, SNR (historical, rare if extant)]

capsules: spring-fall

limestone region on soil and rocks, otherwise on mortar and old concrete

Bergen: *C. Austin s.n.* [*Musci App.* 122] (BKL, NY, PH. UBC)

***T. pagorum* (Milde) De Notaris** - not in NJ

***T. papillosa* Wilson** - see *Syntrichia papillosa*

***T. plinthobia* (Sullivant & Lesquereux) C. Austin**, limestone screw-moss

[G4, SNR (rare if extant)]

capsules: spring

calcareous rocks, cement in walls

*fide* FNA

***T. porteri* (James) Brotherus**, Porter's screw-moss

[G4, SNR (historical, probably rare if extant)]

capsules: spring

limestone rocks

Sussex: *E. Bartram 648* (FH, MIN, NY)

***T. ruralis* (Hedwig) Gaertner et al.** - see *Syntrichia ruralis*

***T. truncata* (Hedwig) Mitten**, truncated screw-moss

[G4, SNR (probably rare)]

capsules spring-fall

calcareous soil, in fields and lawns, roadsides

Bergen: *D. Levy 994* (DUKE)

Hunterdon: *G. Best s.n.*, 26 Nov 1890 (NY)

Middlesex: *E. Moul 10771* (CHRB)

Passaic: *L. Stair s.n.*, 6 May 1940 (PH)

Union: *G. Anderson s.n.*, 30 Apr 1945 (NY)

***Trematodon*** (Bruchiaceae)

***T. ambiguus* (Hedwig) Hornschuch** – not in NJ *fide* FNA

***T. longicollis* Michaux**, Hill's longnecked-moss

[G5, SNR (historical, probably rare if extant)]

capsules spring-summer

on soil or sand

Bergen: *C. 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 *fide* FNA



**Ulota** (Orthotrichaceae)

***U. coarctata* (P. Beauvois) Hammar**, puckered tuft-moss, club pincushion-moss

[G5, SNR (historical, rare if extant)]

capsules: fall - winter (may be present all year)

trunks of deciduous trees in beech-maple forest

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

Sussex: *H. Fischer s.n.*, 1893 (PH)

***U. crispa* (Hedwig) Bridel**, crisped tuft-moss, bark pincushion-moss

[G5, SNR (secure)]

capsules: late spring - summer

trunks of deciduous trees, especially birch

Atlantic: *B. Long 1938* (PH)

Bergen: *E. Kiviat s.n.*, 14 Nov 2013 (Hudsonia)

Burlington: *J. Cantlon 947* (CHRB, PH)

Cumberland: *B. Long: 851* (PH)

Gloucester: *B. Long 1299* (PH)

Hunterdon: *J. Cantlon s.n.*, 8 Sep 1950 (CHRB)

Morris: *W. Taylor s.n.*, Mar 1918 (MICH)

Ocean: *E. Britton s.n.*, 14 Apr 1894 (NY)

Passaic: *K. Barringer 20547* (BKL)

Salem: *B. Long 957* (PH)

Sussex: *K. Barringer 21916* (BKL)

***U. hutchinsiae* (Smith) Hammar**, rock pincushion-moss, rock tuft-moss

[G5, SNR (secure)]

capsules: summer

acidic rocks

Bergen: *W. Wiegmann 37* (NY)

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

Hudson: *K. Barringer 18271* (BKL)

Hunterdon: *G. Best s.n.*, Dec 1892 (NY)

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

Passaic: *G. Tees 1117* (PH)

Sussex: *E. Moul 7438* (CHRB, F, PH)

Warren: *B. Tan 92-131* (FH)

**Warnstorfia** (Calliergonaceae)

***W. exannulata* (Schimper) Loeske** – see *Sarmentypnum exannulatum*

***W. fluitans* (Hedwig) Loeske**, floating hook-moss

[G5, SNR (probably secure)]

poor fens, bog pools

Bergen: *C. Austin s.n.*, 28 Sep 1865 (NY)

Camden: *G. Kaiser s.n.*, 15 Jun 1910 (FH, MO, PH, TRH, VT)

Cumberland: *M. Robertson s.n.*, 7 Aug 1965 (PH)  
Hunterdon: *G. Best s.n.*, 19 May 1892 (NY)  
Middlesex: *E. Moul 6166* (CHRB, PH)  
Morris: *B. Allen 16250* (MO)  
Ocean: *C. Austin s.n., s.d.* (NY)  
Sussex: *N. Miller 10067* (NYS)

### **Weissia** (Pottiaceae)

***W. brachycarpa* (Nees & Hornschuch) Juratzka**, stubble-moss

[GNR, SNR (historic, rare if extant)]

capsules: spring

on soil or rocks in limestone region

loc. ignot.: *C. Austin s.n.* [*Musci App.* 63] (BKL, MICH, NY)

***W. controversa* Hedwig**, pigtail-moss

[G5, SNR (secure)]

capsules present most of the year

on soil or rock in disturbed, often calcareous, sites; roadsides, fields

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

Bergen: *R. Zander 4726* (MO)

Burlington: *H. Koster B5* (CONN, DUKE, MICH, MO, NY, WIS)

Cumberland: *B. Long 1621* (PH)

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

Hudson: *E. Kiviak s.n.*, 12 Apr 2009 (Hudsonia)

Hunterdon: *A. Beals s.n.*, 26 Jun 1938 (NY)

Morris: *H. Habeeb 3359* (F)

Ocean: *C. Clarke s.n.*, 16 Apr 1888 (DUKE)

Passaic: *C. Austin s.n.*, 10 Jun 1882 (NY)

Salem: *C. Reed 134154* (MO)

Somerset: *C. Austin s.n.*, Jul 1879 (NY)

Sussex: *C. Reed 133359A* (MO)

Warren: *J. Churchill s.n.*, 28 Mar 1970 (MSC)

***W. hedwigii* H. Crum** - for ours see *Weissia brachycarpa*

***W. muehlenbergiana* (Swartz) W. Reese & B. Lemmon**, Mühlenberg's stubble-moss

[G5, SNR (historical, probably secure if extant)]

Capsules winter-spring

On soil, lawns, fields, roadsides

Bergen: *C. Austin s.n.*, [*Musci App.* 59] (BKL, MICH, NEB, NY, WIS)

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

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

Mercer: *E. Chamberlain s.n.*, 16 Mar 1912 (DUKE)

Passaic: *A. Beals 2656* (DUKE, NY)

### **Zygodon** (Orthotrichaceae)

***Z. viridissimus* (Dickson) Bridel**, green yoke-moss

[G5, SNR (rare)]  
Trees and rocks, disturbed wetlands  
Bergen: *Kiviat s.n.*, 19 Apr 2014. (Hudsonia)

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## Changes:

**2.01:** Aug 11, 2021: Added *Anomodon thraustus* – Granzow-de la Cerda & Dull (2009) Bryologist 112: 606-610.

**2.02:** Aug 12, 2021: from Erik Kiviat, corrected citation for Karlin (1994).

**2.03:** Aug 16, 2021: From Erik Kiviat, added *Aulacomnium androgynum*. Corrected many Bergen County citations to Hudson County. Added Bergen and Hudson county collections.

**2.04:** August 23, 2021: From Sarah Taylor, changed 'W. Trosk' to W. Trask' and miscellaneous formatting corrections.

**2.05:** September 13, 2021: Added Morris County collections and corrected typos.

- 2.06:** November 2021: More Morris County collections and corrected typos.
- 2.09:** February 2022: From Dorothy Allard: Added and updated nomenclatural synonyms. Added Conservation ranks from Natureserve.
- 2.1:** February 2022: Added common names and corrected even more typos. Removed *Schistidium agassizii*. Added *Pseudoscleropodium purum* as possible.
- 2.2:** February 2022: Included *Hypnum segetes* synonymys