

# MOSSES OF NEW MEXICO

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[Note: The reference after an entry in **bold** or regular type documents the occurrence of that taxon in New Mexico. For ease of comparison with other lists, nomenclature is standardized according to Anderson et al. 1990.]

Total genera =

Total species =

Total taxa =

## Family AMBLYSTEGIACEAE

*Amblystegium fluviatile* (Hedw.) B.S.G. [Bartram 1931; Mahler 1978]

*Hygroamblystegium fluviatile* (Hedw.) Loeske

*Amblystegium humile* (P. Beauv.) B.S.G. [Ireland et al. 1984]

*Leptodictyum humile* (P. Beauv.) Ochyra

*Leptodictyum trichopodium* (Schulz) Warnst.

*Amblystegium juratzkanum* = *Amblystegium serpens* (Hedwig) Bruch & Schimper var. *juratzkanum* (Schimper) Rau & Hervey

*Amblystegium noterophilum* (Sull. & Lesq.) Holzinger [Darigo & Allred 2001]

*Hygroamblystegium noterophilum* (Sull. & Lesq. in Sull.) Warnst.

*Amblystegium riparium* (Hedw.) Schimp. [Prior 1966]

*Leptodictyum riparium* (Hedw.) Warnst.

*Amblystegium serpens* (Hedwig) Bruch & Schimper var.

***juratzkanum*** (Schimper) Rau &

Hervey [Bartram 1931; Mahler 1978]

*Amblystegium juratzkanum* Schimp.

*Amblystegium serpens* (Hedwig) Bruch & Schimper var.

***serpens*** [Bartram 1931; Mahler 1978]

*Amblystegium tenax* (Hedw.) C. Jensen [Bartram 1931;

Mahler 1978]

*Hygroamblystegium orthocladon* (P. Beauv.) Mac. & Kindb.

*Hygroamblystegium tenax* (Hedw.) Jenn.

*Amblystegium varium* (Hedw.) Lindb. [Bartram 1931;

Mahler 1978]

*Calliergon stramineum* (Brid.) Kindb. = *Straminergon stramineum* (Brid.) Hedenäs

*Campyliadelphus chrysophyllus* (Bridel) Kanda [Bartram 1931; Mahler 1978]

*Campylium chrysophyllum* (Brid.) J. Lange

*Campylium chrysophyllum* (Brid.) J. Lange = *Campyliadelphus chrysophyllus* (Bridel) Kanda

*Campylium hispidulum* (Brid.) Mitt. [Bartram 1931; Mahler 1978]

*Campylium radicale* (P. Beauv.) Grout [Mahler 1985]

*Campylium stellatum* (Hedw.) C. Jens. [Conard & Redfearn 1979; Lawton 1971]

*Conardia compacta* (C. Müll.) Robins. [Mahler 1978]

*Rhynchostegiella compacta* (C. Müll.) Loeske

*Cratoneuron commutatatum* (Brid.) G. Roth = *Palustriella commutata* (Brid.) Ochyra

*Cratoneuron decipiens* (DeNot) Loeske = *Palustriella decipiens* (DeNot) Ochyra

*Cratoneuron filicinum* (Hedw.) Spruce [Bartram 1931; Mahler 1978]

*Drepanocladus aduncus* (Hedw.) Warnst. var. ***aduncus*** [Bartram 1931; Mahler 1978; Wynne 1944]

*Drepanocladus aduncus* (Hedw.) Warnst. var. ***kneiffii*** (Schimp.) [Crum & Anderson 1981; Wynne 1944]

*Drepanocladus aduncus* (Hedw.) Warnst. var. ***polycarpus*** (Bland. ex Voit) Roth. [Conard & Redfearn 1979]

*Drepanocladus sendtneri* (Schimp.) Warnst. [Bartram 1931; Mahler 1978]

*Drepanocladus sendtneri* (Schimp.) Warnst. var. *wilsonii*

*Drepanocladus sendtneri* var. *wilsonii* = *Drepanocladus sendtneri* Warnst.

*Drepanocladus uncinatus* (Hedw.) Warnst. = *Sanionia uncinata* (Hedw.) Loeske

*Hygroamblystegium fluviatile* (Hedw.) Loeske = *Amblystegium fluviatile* (Hedw.) B.S.G.

*Hygroamblystegium orthocladon* (P. Beauv.) Mac. & Kindb. = *Amblystegium tenax* (Hedw.) C. Jensen

*Hygroamblystegium noterophilum* (Sull. & Lesq. in Sull.) Warnst. = *Amblystegium noterophilum* (Sull. & Lesq.) Holzinger

*Hygroamblystegium tenax* (Hedw.) Jenn. = *Amblystegium tenax* (Hedw.) C. Jensen

*Hygrohypnum luridum* (Hedw.) Jenn. var. *julaceum* (Schimp. in B.S.G.) Podp. = *Hygrohypnum luridum* (Hedw.) Jenn.

*Hygrohypnum luridum* (Hedw.) Jenn. [Bartram 1931; Mahler 1978]

*Hygrohypnum luridum* (Hedw.) Jenn. var. *julaceum* (Schimp. in B.S.G.) Podp.

*Hygrohypnum molle* (Hedw.) Loeske [Bartram 1931; Mahler 1978]

*Hygrohypnum ochraceum* (Turn. ex Wils.) Loeske [Mahler 1985]

*Leptodictyum humile* (P. Beauv.) Ochyra = *Amblystegium humile* (P. Beauv.) B.S.G.

*Leptodictyum riparium* (Hedw.) Warnst. = *Amblystegium riparium* (Hedw.) Schimp.

*Leptodictyum trichopodium* (Schulz) Warnst. = *Amblystegium humile* (P. Beauv.) B.S.G.

*Palustriella commutata* (Brid.) Ochyra [Allred et al. 1998]

*Cratoneuron commutatatum* (Brid.) G. Roth

*Palustriella decipiens* (DeNot) Ochyra [Allred et al. 1998]

*Cratoneuron decipiens* (DeNot) Loeske

*Sanionia uncinata* (Hedw.) Loeske [Bartram 1931; Mahler 1978; Wynne 1944]  
*Drepanocladus uncinatus* (Hedw.) Warnst.  
*Straminergon stramineum* (Brid.) Hedenäs [Flowers 1973]  
*Calliergon stramineum* (Brid.) Kindb.

Family ANDREAEACEAE

*Andreaea heinemannii* Hampe & Müller Hal. [Mahler 1985]  
*Andreaea rupestris* Hedw. sensu Mahler (1985)

Family ANOMODONTACEAE

*Anomodon attenuatus* (Hedw.) Hüb. [Bartram 1931; Mahler 1978]  
*Anomodon minor* (Hedw.) Fűrnr. [Ireland et al. 1984]  
*Anomodon rostratus* (Hedw.) Schimp. [Bartram 1931; Mahler 1978]

Family AULACOMNIACEAE

*Aulacomnium palustre* (Hedw.) Schwaegr. [Bartram 1931; Mahler 1978]  
*Aulacomnium palustre* (Hedw.) Schwaegr. var. *imbricatum* Bruch & Schimp.  
*Aulacomnium palustre* (Hedw.) Schwaegr. var. *imbricatum* Bruch & Schimp. = *Aulacomnium palustre* (Hedw.) Schwaegr.

Family BARTRAMIACEAE

*Anacolia laevisphaera* (Tayl.) Flow. [Mahler 1978]  
*Anacolia subsessilis* (Tayl.) Broth.  
*Anacolia menziesii* (Turn.) Paris [Weber et al. 2003]  
*Anacolia subsessilis* (Tayl.) Broth. = *Anacolia laevisphaera* (Tayl.) Flow.  
*Bartramia brevifolia* Brid. [Allred et al. 1998]  
*Bartramia ithyphylla* Brid. [Bartram 1931; Mahler 1978]  
*Bartramia potosica* Mont. [Allred et al. 1998]  
*Philonotis capillaris* Lindb. in Hartm. [Mahler 1978]  
*Philonotis fontana* (Hedw.) Brid. var. *americana* (Dism.) Flow. ex Crum [Flowers 1973]  
*Philonotis fontana* (Hedw.) Brid. var. *caespitosa* (Jur.) Schimp. [Stark & Castetter 1982]  
*Philonotis fontana* (Hedw.) Brid. var. *fontana* [Bartram 1931; Mahler 1978]  
*Philonotis fontana* (Hedw.) Brid. var. *pumila* (Turn.) Brid. [Bartram 1931; Mahler 1978]  
*Philonotis tomentella* Mol.  
*Philonotis marchica* (Hedw.) Brid. [Bartram 1931; Mahler 1978]  
*Philonotis tomentella* Mol. = *Philonotis fontana* (Hedw.) Brid. var. *pumila* (Turn.) Brid.

Family BRACHYTHECIACEAE

*Brachythecium acuminatum* (Hedw.) Aust. [Bartram 1931; Mahler 1978]  
*Brachythecium acutum* (Mitt.) Sull. = *Brachythecium salebrosum* (Web. & Mohr) Schimp.  
*Brachythecium albicans* (Hedw.) Schimp. in B.S.G. [Stark & Castetter 1982]  
*Brachythecium collinum* (Schleich. ex C. Müll.) Schimp. [Bartram 1931; Mahler 1978]  
*Brachythecium erythrorrhizon* Schimp. in B.S.G. [Bartram 1931; Mahler 1978]  
*Brachythecium fendleri* (Sull.) Jaeg. [Bartram 1931; Mahler 1978]  
*Brachythecium utahense* James

*Brachythecium nelsonii* Grout [Allred et al. 1998]  
*Brachythecium oedipodium* (Mitt.) Jaeg. [Allred et al. 1998]  
*Brachythecium oxycladon* (Brid.) Jaeg. [Worthington 1996]  
*Brachythecium petrophilum* R.S. Williams = *Brachythecium velutinum* (Hedw.) Schimp. var. *venustum* (De Not.) Arc.  
*Brachythecium plumosum* (Sw.) Schimp. [Mahler 1985]  
*Brachythecium populeum* (Hedw.) Schimp. in B.S.G. [Bartram 1931; Mahler 1978]  
*Brachythecium rivulare* Schimp. in B.S.G. [Bartram 1931; Mahler 1978]  
*Brachythecium salebrosum* (Web. & Mohr) Schimp. [Bartram 1931; Lawton 1971; Mahler 1978; 1985]  
*Brachythecium acutum* (Mitt.) Sull.  
*Brachythecium stereopoma* (Spruce ex Mitt.) Jaeg. [Grout 1926; Mahler 1978]  
*Brachythecium wootonii* Grout  
*Brachythecium utahense* James = *Brachythecium fendleri* (Sull.) Jaegr.  
*Brachythecium velutinum* (Hedw.) Schimp. in B.S.G. var. *velutinum* [Mahler 1978]  
*Brachythecium velutinum* (Hedw.) Schimp. in B.S.G. var. *venustum* (De Not.) Arc. [Bartram 1931; Mahler 1978]  
*Brachythecium petrophilum* R.S. Williams  
*Brachythecium wootonii* Grout = *Brachythecium stereopoma* (Spruce ex Mitt.) Jaeg.  
*Eurhynchium diversifolium* Schimp. = *Rhynchostegium pulchellum* (Hedw.) Robinson  
*Eurhynchium hians* (Hedw.) Sande Lac. : Reported by Conard & Redfearn (1979) and Grout (1928-40), but validating specimens have not been located.  
*Eurhynchium pulchellum* (Hedw.) Jenn. = *Rhynchostegium pulchellum* (Hedw.) Robinson  
*Eurhynchium praelongum* (Hedw.) Schimp. in B.S.G. : Reported tentatively by Worthington (1996)  
*Kindbergia praelonga* (Hedw.) Ochyra  
*Platyhypnidium riparioides* (Hedw.) Dix. [Allred et al. 1998]  
*Rhynchostegiella compacta* (C. Müll.) Loeske = *Conardia compacta* (C. Müll.) Robins.  
*Rhynchostegium pulchellum* (Hedw.) Robinson [Bartram 1931; Mahler 1978]  
*Eurhynchium diversifolium* Schimp.  
*Eurhynchium pulchellum* (Hedw.) Jenn.  
*Rhynchostegium serrulatum* (Hedw.) Jaeg. & Sauerb. [Stark & Castetter 1982]  
*Steerecleus serrulatus* (Hedw.) Robins.  
*Steerecleus serrulatus* (Hedw.) Robins. = *Rhynchostegium serrulatum* (Hedw.) Jaeg. & Sauerb.  
*Tomenthypnum nitens* (Hedw.) Loeske [Crum & Anderson 1981]

Family BRYACEAE

*Brachymerium klotzschii* (Schwaegr.) Par. : Reported by Conard & Redfearn (1979) but validating specimens have not been located.  
*Brachymerium macrocarpum* Card.  
*Brachymerium macrocarpum* Card. = *Brachymerium klotzschii* (Schwaegr.) Par.  
*Brachymerium systylium* (C. Müll.) Jaeg. [Mahler 1978]  
*Bryum affine* Lindb. & Arnell = *Bryum lisae* De Not. var. *cuspidatum* (Bruch & Schimp.) Marg.  
*Bryum algovicum* Sendtn. ex C. Müll. [Bartram 1931; Mahler 1978]  
*Bryum pendulum* (Hornsch.) Schimp.

*Bryum andicola* Hook. = *Bryum billarderi* Schwaegr.  
***Bryum argenteum*** Hedw. [Bartram 1931; Mahler 1978]  
*Bryum lanatum* P. Beauv.  
*Bryum bicolor* Dicks. = *Bryum dichotomum* Hedw.  
***Bryum billarderi*** Schwaegr. [Mohamed 1979]  
*Bryum andicola* Hook.  
***Bryum caespiticium*** Hedwig [Allred et al. 1998]  
***Bryum capillare*** Hedw. [Bartram 1931; Mahler 1978]  
*Bryum creberrimum* Tayl. = *Bryum lisae* De Not. var. *cuspidatum*  
 (Bruch ex Schimp. in B.S.G.) Marg.  
***Bryum cyclophyllum*** (Schwaegr.) Bruch & Schimp. in  
 B.S.G. [Stark & Castetter 1982]  
*Bryum tortifolium* Funck in Brid.  
***Bryum dichotomum*** Hedwig [Allred et al. 1998]  
*Bryum bicolor* Dicks.  
***Bryum gemmiparum*** De Not. [Ireland et al. 1981]  
***Bryum incrassatolimbatum*** Card. [Darigo & Allred 2001]  
*Bryum lanatum* P. Beauv. = *Bryum argenteum* Hedw.  
***Bryum lisae*** De Not. var. *cuspidatum* (Bruch ex Schimp.  
 in B.S.G.) Marg. [Bartram 1931; Mahler  
 1978]  
*Bryum affine* Lindb. & Arnell  
*Bryum creberrimum* Tayl.  
***Bryum lonchocaulon*** C. Müll. [Mahler 1978]  
***Bryum miniatum*** Lesq. [Stark & Castetter 1982]  
***Bryum muehlenbeckii*** Bruch & Schimp. in B.S.G. [Ireland  
 et al. 1981]  
***Bryum pallens*** (Brid.) Sw. [Allred et al. 1998]  
***Bryum pallescens*** Schleich. ex Schwaeger [Allred et al.  
 1998]  
*Bryum pendulum* (Hornsch.) Schimp. = *Bryum algovicum* Sendtn.  
 ex C. Müll.  
***Bryum pseudotriquetrum*** (Hedw.) Gaertn. et al. [Bartram  
 1931; Mahler 1978]  
***Bryum pyriferum*** Crundw. & Whiteh. [Ireland et al. 1981,  
 1984]  
*Bryum tortifolium* Funck in Brid. = *Bryum cyclophyllum*  
 (Schwaegr.) Bruch & Schimp. in B.S.G.  
***Bryum turbinatum*** (Hedw.) Turn. [Bartram 1931; Mahler  
 1978]  
***Bryum uliginosum*** (Brid.) Bruch & Schimp. in B.S.G.  
 [Mahler 1978]  
***Leptobryum pyriforme*** (Hedw.) Wils. [Bartram 1931; Mahler  
 1978]  
***Pohlia cruda*** (Hedw.) Lindb. [Bartram 1931; Mahler 1978]  
***Pohlia drummondii*** (C. Muell.) Andrews [Stark & Castetter  
 1982]  
***Pohlia elongata*** Hedwig var. *elongata* [Allred et al. 1998]  
***Pohlia nutans*** (Hedw.) Lindb. [Bartram 1931; Mahler 1978]  
***Pohlia wahlenbergii*** (F. Weber & Mohr) Andrews [Ireland  
 et al. 1981]  
***Rhodobryum ontariense*** (Kindb.) Kindb. [Mahler 1985]  
*Rhodobryum roseum* (Hedw.) Limpr. : Reported by Stark &  
 Castetter (1986), but specimen identification  
 corrected to *Rhodobryum ontariense*  
 (Kindb.) Kindb.

#### Family BRYOXIPHACEAE

***Bryoxiphium norvegicum*** (Brid.) Mitt. [Allred et al. 1998]

#### Family CLIMACIACEAE

***Climacium americanum*** Brid. [Mahler 1985]  
***Climacium dendroides*** (Hedw.) F. Weber & Mohr  
 [Bartram 1931; Mahler 1978]

#### Family DICRANACEAE

***Dichodontium pellucidum*** (Hedw.) Schimp. [Allred et al.  
 1998]  
***Dicranella varia*** (Hedw.) Schimp. [Ireland et al. 1981]  
***Dicranoweisia cirrata*** (Hedw.) Lindb. ex Milde [Mahler  
 1978]  
***Dicranoweisia crispula*** (Hedw.) Lindb. ex Milde [Bartram  
 1931; Mahler 1978]  
*Dicranum bonjeanii* DeNot. = *Dicranum scoparium* Hedwig  
***Dicranum fuscescens*** Turn. var. *fuscescens* [Allred et al.  
 1998]  
***Dicranum montanum*** Hedw. [Bartram 1931; Mahler 1978]  
***Dicranum muehlenbeckii*** Bruch & Schimp. in B.S.G.  
 [Bartram 1931; Mahler 1978]  
***Dicranum rhabdocarpum*** Sull. [Bartram 1931; Mahler  
 1978]  
***Dicranum scoparium*** Hedwig [Allred et al. 1998]  
*Dicranum bonjeanii* DeNot. [Crum & Anderson 1981]  
***Oncophorus virens*** (Hedw.) Brid. [Bartram 1931; Mahler  
 1978]  
***Oncophorus wahlenbergii*** Brid. [Allred et al. 1998]  
***Paraleucobryum enerve*** (Thed. in Hartm.) Loeske  
 [Bartram 1931; Mahler 1978]  
***Paraleucobryum longifolium*** (Hedw.) Loeske [Bartram  
 1931; Mahler 1978]  
*Symblepharis helicophylla* Mont. = *Symblepharis vaginata* (Hook.)  
 Wijk & Marg.  
***Symblepharis vaginata*** (Hook.) Wijk & Marg. [Ireland et  
 al. 1984; Mahler 1978]  
*Symblepharis helicophylla* Mont.

#### Family DITRICHACEAE

***Ceratodon purpureus*** (Hedw.) Brid. [Bartram 1931;  
 Mahler 1978]  
***Ceratodon stenocarpus*** Bruch & Schimp. in B.S.G.  
 [Darigo & Allred 2001]  
***Distichium capillaceum*** (Hedw.) Bruch & Schimp. in  
 B.S.G. [Bartram 1931; Mahler 1978]  
***Ditrichum flexicaule*** (Schwaegr.) Hampe. [Allred et al.  
 1998]  
***Saelania glaucescens*** (Hedw.) Broth. in Bomanss. &  
 Broth. [Bartram 1931; Mahler 1978]  
*Didymodon trifarius* (Hedw.) Rhl.

#### Family ENCALYPTACEAE

***Encalypta ciliata*** Hedw. [Bartram 1931; Mahler 1978]  
***Encalypta rhabdocarpa*** Schwaegr. [Conard & Redfearn  
 1979]  
***Encalypta vulgaris*** Hedw. [Chamberlain 1925; Bartram  
 1931]

#### Family ENTODONTACEAE

*Entodon cladorrhizans* (Hedw.) C. Müll. : Reported by Mahler  
 (1978), but identification corrected to  
*Entodon schleicheri* (Schimp.) Demeter  
 [Darigo & Allred 2001]  
***Entodon concinnus*** (De Not.) Par. [Bartram 1931; Mahler  
 1978]  
*Entodon orthocarpus* (Brid.) Lindb.  
*Entodon orthocarpus* (Brid.) Lindb. = *Entodon concinnus* (De  
 Not.) Par.

*Entodon schleicheri* (Schimp.) Demeter [Buck & Crum 1978]  
*Entodon sullivantii* (C. Müll.) Lindb. [Crum & Anderson 1981]

Family FABRONIACEAE

*Fabronia ciliaris* (Brid.) Brid. var. *ciliaris* [Bartram 1931; Mahler 1978]  
*Fabronia gymnostoma* Sull. & Lesq. ex Sull.  
*Fabronia octoblepharis* (Schleich.) Schwaegr. [Grout 1928-40]  
*Fabronia ciliaris* (Brid.) Brid. var. *wrightii* (Sull.) Buck [Mahler 1978]  
*Fabronia wrightii* Sull.  
*Fabronia gymnostoma* Sull. & Lesq. ex Sull. = *Fabronia ciliaris* (Brid.) Brid. var. *ciliaris*  
*Fabronia octoblepharis* (Schleich.) Schwaegr. = *Fabronia ciliaris* (Brid.) Brid. var. *ciliaris*  
*Fabronia pusilla* Raddi [Mahler 1978]  
*Fabronia wrightii* Sull. = *Fabronia ciliaris* (Brid.) Brid. var. *wrightii* (Sull.) Buck

Family FISSIDENTACEAE

*Fissidens bryoides* Hedw. var. *bryoides* [Grout 1928-1940; Mahler 1978; Stark & Castetter 1982]  
*Fissidens exiguus* Sull. forma *emarginatus* Grout  
*Fissidens sublimbatus* Grout  
*Fissidens viridulus* (Sw.) Wahlb.  
*Fissidens bryoides* Hedw. var. *pusillus* (Wils.) Pursell [Ireland 1984]  
*Fissidens bryoides* Hedw. var. *viridulus* (Sw.) Broth. [Darigo & Allred 2001]  
*Fissidens crispus* Mont. [Darigo & Allred 2001; Mahler 1978]  
*Fissidens exiguus* Sull. forma *emarginatus* Grout = *Fissidens bryoides* Hedw. var. *bryoides*  
*Fissidens fontanus* (B.-Pyl.) Steud. [Weber 1973]  
*Fissidens limbatus* Sull. : Reported by Mahler (1978), but material referred to *Fissidens crispus* Mont. [Darigo & Allred 2001]  
*Fissidens littlei* (Williams) Grout [Allred 1998; Williams 1936]  
*Moenkemeyera littlei* Williams [Grout 1928-1940]  
*Fissidens obtusifolius* Wils. var. *acuminatus* Grout [Eckel 1986]  
*Fissidens obtusifolius* Wils. var. *apiculatus* Grout : Reported by Stark & Castetter (1982), but identification corrected to *Fissidens sublimbatus* Grout by Ron Pursell. [Darigo & Allred 2001]  
*Fissidens sublimbatus* Grout = *Fissidens bryoides* Hedw.  
*Fissidens viridulus* (Sw.) Wahlenb. = *Fissidens bryoides* Hedw.  
*Moenkemeyera littlei* Williams = *Fissidens littlei* (Williams) Grout

Family FONTINALACEAE

*Fontinalis antipyretica* Hedw. [Mahler 1978; Welch 1963]  
*Fontinalis hypnoides* Hartm. var. *hypnoides* [Allred et al. 1998]  
*Fontinalis neomexicana* Sull. & Lesq. [Bartram 1931; Mahler 1978; Sullivant & Lesquereux 1856]

Family FUNARIACEAE

*Entosthodon rubiginosus* (Williams) Grout [Ireland et al. 1984]

*Funaria americana* Lindberg [Stark & Castetter 1982]  
*Funaria muhlenbergii* [nomen nudum]  
*Funaria apiculatopilosa* Card. [Worthington 1996]  
*Funaria orcuttii* Bartr.  
*Funaria calvescens* Schwaegr. [Darigo & Allred 2001]  
*Funaria hygrometrica* Hedwig [Bartram 1931; Mahler 1978]  
*Funaria hygrometrica* Hedwig var. *utahensis* Grout  
*Funaria hygrometrica* Hedwig var. *utahensis* Grout = *Funaria hygrometrica*  
*Funaria muhlenbergii* [nomen nudum] = *Funaria americana* Lindberg  
*Funaria orcuttii* Bartr. = *Funaria apiculatopilosa* Card.  
*Physcomitrium pyriforme* (Hedw.) Hampe [Ireland et al. 1984]

Family GIGASPERMACEAE

*Lorentziella imbricata* (Mitt.) Broth. [Allred et al. 1998]

Family GRIMMIACEAE

*Coscinodon calyptratus* (Hook. in Drumm.) C. Jens. ex Kindb. [Bartram 1931; Hastings 1999; Mahler 1978]  
*Grimmia calyptrata* Hook. in Drumm.  
*Coscinodon cribrosus* (Hedw.) Spruce [Hastings 1999; Ireland et al. 1984]  
*Grimmia cribrosa* Hedw.  
*Coscinodon wrightii* Sull. in Gray = *Jaffueliobryum wrightii* (Sull. in Gray) Thèr.  
*Grimmia affinis* Hoppe & Hornsch. = *Grimmia longirostris* Hook.  
*Grimmia alpestris* of New Mexico reports = *Coscinodon cribrosus* (Hedw.) Spruce  
*Grimmia alpicola* of American authors = *Schistidium agassizii* Sull. & Lesq.  
*Grimmia alpicola* Sw. ex Hedw. var. *rivularis* = *Schistidium rivulare* (Brid.) Podp. var. *rivulare*  
*Grimmia anodon* Bruch & Schimp. in B.S.G. [Bartram 1931; Mahler 1978]  
*Grimmia apocarpa* Hedw. var. *ambigua* (Sull.) G. Jones in Grout = *Schistidium apocarpum* (Hedw.) Bruch & Schimp. in B.S.G.  
*Grimmia apocarpa* Hedw. var. *apocarpa* = *Schistidium apocarpum* (Hedw.) Bruch & Schimp. in B.S.G.  
*Grimmia apocarpa* Hedw. var. *conferta* (Funck) Spreng. = *Schistidium apocarpum* (Hedw.) Bruch & Schimp. in B.S.G.  
*Grimmia apocarpa* Hedw. var. *stricta* = *Schistidium apocarpum* (Hedw.) Bruch & Schimp. in B.S.G.  
*Grimmia arizonae* Ren. & Card. : Reported by Bartram (1931) & Mahler (1978), but the pertinent material was identified as *Grimmia elatior* Bruch ex Bals.-Criv. & DeNot., *Grimmia montana* Bruch & Schimp., and *Grimmia pilifera* Beauv. [Darigo & Allred 2001]. Also reported for NM by Weber et al. (2003).  
*Grimmia bernoullii* Mueller Hal. [Weber et al. 2003]  
*Grimmia calyptrata* Hook. in Drumm. = *Coscinodon calyptratus* (Hook. in Drumm.) C. Jens. ex Kindb.  
*Grimmia catalinensis* Bartr. = *Grimmia ovalis* (Hedw.) Lindb.  
*Grimmia converta* Funck var. *obtusifolia* Schimp. = *Schistidium apocarpum* (Hedw.) Bruch & Schimp. in B.S.G.  
*Grimmia cribrosa* Hedw. = *Coscinodon cribrosus* (Hedw.) Spruce  
*Grimmia elatior* Bruch ex Bals.-Criv. & DeNot. [Darigo & Allred 2001]

*Grimmia donniana* Sm. : Reported by Mahler (1978), but material identified as *Grimmia longirostris* Hook. [Darigo & Allred 2001]

*Grimmia laevigata* (Brid.) Brid. [Mahler 1978]

*Grimmia longirostris* Hook. [Darigo & Allred 2001]

*Grimmia montana* Bruch & Schimp. [Darigo & Allred 2001]

*Grimmia orbicularis* Bruch ex Wils. [Mahler 1978]

*Grimmia ovalis* (Hedw.) Lindb. [Bartram 1931; Mahler 1978]

*Grimmia catalinensis* Bartr. [Grout 1928-40]

*Grimmia pilifera* Beauv. [Darigo & Allred 2001]

*Grimmia plagiopodia* Hedw. [Mahler 1978]

*Grimmia poecilostoma* Card. & Seb. in Seb. [Bartram 1924; Mahler 1978]

*Grimmia pulvinata* (Hedw.) Sm. var. *pulvinata* [Mahler 1978]

*Grimmia rauii* Aust. = *Jaffuelobryum rauii* Ther.

*Grimmia tenerrima* Ren. & Card. : Reported by Stark & Castetter (1982), but material identified as *Coscinodon cribrosus* (Hedw.) Spruce [Darigo & Allred 2001]

*Grimmia ungeri* Jur. [Darigo & Allred 2001]

*Grimmia wrightii* (Sull. in Gray) Aust. = *Jaffuelobryum wrightii* (Sull. in Gray) Thr.

*Jaffuelobryum rauii* (Aust.) Thr. [Ireland et al. 1981]

*Grimmia rauii* Aust.

*Jaffuelobryum wrightii* (Sull. in Gray) Thèr. [Bartram 1931; Mahler 1978]

*Coscinodon wrightii* Sull. in Gray

*Grimmia wrightii* (Sull. in Gray) Aust.

*Schistidium alpicola* of Amer. authors = *Schistidium rivulare* (Brid.) Podp.

*Schistidium ambiguum* (Müll. & Kindb.) Blom. [Weber et al. 2003]

*Schistidium apocarpum* (Hedw.) Bruch & Schimp. in B.S.G. [Bartram 1931; Mahler 1978]

*Grimmia apocarpa* Hedw.

*Grimmia apocarpa* Hedw. var. *ambigua* (Sull.) G. Jones in Grout

*Grimmia apocarpa* Hedw. var. *conferta* (Funck) Spreng.

*Grimmia apocarpa* Hedw. var. *stricta*

*Grimmia converta* Funck var. *obtusifolia* Schimp. [Grout 1928-40]

*Schistidium rivulare* (Brid.) Podp. var. *latifolium* (Zett.) Crum & Anderson [Darigo & Allred 2001]

*Schistidium rivulare* (Brid.) Podp. var. *rivulare* [Bartram 1931; Mahler 1978]

*Grimmia alpicola* of Amer. authors

*Grimmia alpicola* Sw. ex Hedw. var. *rivularis* (Brid.) Wahlenb.

*Schistidium alpicola* of Amer. authors

#### Family HEDWIGIACEAE

*Braunia secunda* (Hook.) B.S.G. [Allred et al. 1998]

*Hedwigia ciliata* (Hedw.) P. Beauv. [Bartram 1931; Mahler 1978]

#### Family HYLOCOMIACEAE

*Hylocomium splendens* (Hedw.) Schimp. in B.S.G. [Bartram 1931; Mahler 1978]

*Pleurozium schreberi* (Brid.) Mitt. [Mahler 1985]

#### Family HYPNACEAE

*Breidleria arcuata* (Lindb.) Loeske = *Calliergonella lindbergii* (Mitten) Hedanäs

*Breidleria pratensis* (Koch ex Spruce) Loeske [Allred et al. 1998]

*Hypnum pratense* (Rabenh.) Spruce

*Calliergonella lindbergii* (Mitten) Hedanäs [Bartram 1931; Mahler 1978]

*Breidleria arcuata* (Lindb.) Loeske

*Homomallium adnatum* (Hedw.) Broth. : Plants previously thought to be *Homomallium adnatum* have all been verified by Bruce Allen (MO) as *Homomallium mexicanum* Card.

*Homomallium mexicanum* Card. var. *latifolium* Card. [Bartram 1931; Mahler 1978]

*Homomallium mexicanum* Card. var. *mexicanum* [Bartram 1931; Mahler 1978]

*Hypnum cupressiforme* Hedw. var. *cupressiforme* [Bartram 1931; Little 1937]

*Hypnum lindbergii* Mitt. = *Calliergonella lindbergii* (Mitten) Hedanäs

*Hypnum pallescens* (Hedw.) P. Beauv. [Stark & Castetter 1982]

*Hypnum pratense* (Rabenh.) Spruce = *Breidleria pratensis* (Koch ex Spruce) Loeske

*Hypnum revolutum* (Mitt.) Lindb. [Bartram 1931; Mahler 1978]

*Hypnum vaucheri* Lesq. [Ireland et al. 1981]

*Isopterygiopsis pulchella* (Hedw.) Iwats. [Allred et al. 1998]

*Isopterygium pulchellum* (Hedw.) Jaeg.

*Isopterygium homomallifolium* Redf. = *Pseudotaxiphyllum homomallifolium* (Redf.) Irel.

*Isopterygium pulchellum* (Hedw.) Jaeg. = *Isopterygiopsis pulchella* (Hedw.) Iwats.

*Isopterygium tenerum* Mitt. [Allred et al. 1998]

*Platydictya jungermannioides* (Brid.) Crum [Mahler 1978]

*Platygyrium fuscoluteum* Card. [Mahler 1978; Reese 1999]

*Pseudotaxiphyllum homomallifolium* (Redf.) Irel. [Ireland et al. 1984]

*Isopterygium homomallifolium* Redf.

*Pylaisia polyantha* (Hedw.) Schimp. = *Pylaisiella polyantha* (Hedw.) Grout

*Pylaisiella polyantha* (Hedw.) Grout [Bartram 1931; Mahler 1978]

*Pylaisia polyantha* (Hedw.) Schimp.

*Taxiphyllum deplanatum* (Bruch & Schimp. ex Sull.) Fleisch. [Bartram 1931; Mahler 1978]

*Taxiphyllum taxirameum* (Mitt.) Fleisch. [Mahler 1978]

#### Family LESKEACEAE

*Bryohaplocladium angustifolium* (Hampe & C. Müll.) Wat. & Iwat. [Allred et al. 1998]

*Haplocladium angustifolium* (Hampe & C. Müll.) Broth.

*Bryohaplocladium microphyllum* (Hedw.) Wat. & Iwats. [Bartram 1931; Mahler 1978; Stark & Castetter 1986]

*Haplocladium microphyllum* (Hedw.) Broth.

*Claopodium pellucinerve* (Mitt.) Best [Mahler 1978]

*Haplocladium angustifolium* (Hampe & C. Müll.) Broth. =  
 Bryohaplocladium angustifolium (Hampe &  
 C. Müll.) Wat. & Iwat.  
*Haplocladium microphyllum* (Hedw.) Broth. = Bryohaplocladium  
 microphyllum (Hedw.) Wat. & Iwats.  
***Leptopterigynandrum austro-alpinum*** C. Müll. [Allred et  
 al. 1998]  
***Lescuraea arizonae*** (Williams) P. Wils. & Norris [Bartram  
 1931; Mahler 1978]  
*Pseudoleskeella arizonae* (Williams) Lawt.  
*Lescuraea incurvata* (Hedw.) Lawt. = Pseudoleskea incurvata  
 (Hedw.) Loeske  
***Lescuraea saxicola*** (Schimp.) Milde [Mahler 1985]  
***Leskeella nervosa*** (Brid.) Loeske [Stark & Castetter 1986]  
*Pseudoleskeella nervosa* (Brid.) Nyholm  
***Lindbergia brachyptera*** (Mitt.) Kindb. [Bartram 1931;  
 Mahler 1978]  
***Lindbergia mexicana*** (Besch.) Card. ex Pringle [Bartram  
 1949]  
***Pseudoleskea incurvata*** (Hedw.) Loeske var. *incurvata*  
 [Mahler 1985]  
*Lescuraea incurvata* (Hedw.) Lawt.  
***Pseudoleskea radicata*** (Mitt.) Macoun & Kindb.  
 [Worthington 1996]  
*Pseudoleskeella arizonae* (Williams) Lawt. = *Lescuraea arizonae*  
 (Williams) P. Wils. & Norris  
*Pseudoleskeella nervosa* (Brid.) Nyholm = *Leskeella nervosa*  
 (Brid.) Loeske  
***Pseudoleskeella sibirica*** (Arnell) P. Wils. & Norris [Crum  
 & Anderson 1981, as *Pseudoleskeella*  
*catenulata* (Schrad.) Kindb.]  
*Pseudoleskeella tectorum* var. *flagellifera* (Best) Amann =  
*Pseudoleskeella tectorum* (Funck ex Brid.)  
 Kindb.  
***Pseudoleskeella tectorum*** (Funck ex Brid.) Kindb. in  
 Broth. [Bartram 1931; Mahler 1978]  
*Pseudoleskeella tectorum* var. *flagellifera* (Best)  
 Amann

#### Family MNIACEAE

***Mnium arizonicum*** Amann [Bartram 1931; Mahler 1978]  
***Mnium blyttii*** Bruch & Schimp. in B.S.G. [Bartram 1931;  
 Mahler 1978]  
*Mnium cuspidatum* Hedw. = *Plagiomnium cuspidatum* (Hedw.)  
 Koponen  
*Mnium ellipticum* Brid. = *Plagiomnium ellipticum* (Brid.) T. Kop.  
***Mnium marginatum*** (With.) Brid. ex P. Beauv. [Bartram  
 1931; Mahler 1978]  
*Mnium serratum* Schrad. ex Brid.  
*Mnium orthorrhynchum* of numerous authors = *Mnium thomsonii*  
 Schimp.  
*Mnium punctatum* Hedw. = *Rhizomnium punctatum* (Hedw.) T.  
 Kop.  
*Mnium punctatum* Hedw. var. *elatum* Schimp. = *Rhizomnium*  
*magnifolium* (Horik.) T. Kop.  
*Mnium rostratum* Schrad. = *Plagiomnium rostratum* (Schrad.) T.  
 Kop.  
*Mnium serratum* Schrad. ex Brid. = *Mnium marginatum* (With.)  
 Brid. ex P. Beauv.  
***Mnium thomsonii*** Schimp. [Bartram 1931; Mahler 1978]  
*Mnium orthorrhynchum* of numerous authors  
***Plagiomnium cuspidatum*** (Hedw.) Koponen [Bartram  
 1931; Mahler 1978]  
*Mnium cuspidatum* Hedw.

***Plagiomnium ellipticum*** (Brid.) T. Kop. [Allred et al.  
 1998]  
*Mnium ellipticum* Brid.  
***Plagiomnium rostratum*** (Schrad.) T. Kop. [Bartram 1931;  
 Mahler 1978]  
*Mnium rostratum* Schrad.  
***Rhizomnium magnifolium*** (Horik.) T. Kop. [Crum &  
 Anderson 1981, as *Mnium punctatum*]  
*Mnium punctatum* Hedw. var. *elatum* Schimp.  
***Rhizomnium pseudopunctatum*** (Bruch & Schimp.) Kop.  
 [Mahler 1985]  
***Rhizomnium punctatum*** (Hedw.) T. Kop. [Allred et al.  
 1998]  
*Mnium punctatum* Hedw.

#### Family NECKERACEAE

***Metaneckera menziesii*** (Hook. in Drumm.) Steere [Cardot  
 1910; Mahler 1978]  
*Porotrichum neomexicanum* (Card.) Wagn.  
***Neckera pennata*** Hedw. var. *pennata* [Bartram 1931;  
 Mahler 1978]  
*Neckera pennata* Hedw. var. *tenera* C. Müll.  
*Neckera pennata* Hedw. var. *tenera* C. Müll. = *Neckera pennata*  
 Hedw.  
*Porotrichum neomexicanum* (Card.) Wagn. = *Metaneckera*  
*menziesii* (Hook. in Drumm.) Steere

#### Family ORTHOTRICHACEAE

***Orthotrichum alpestre*** Hornsch. in B.S.G. [Mahler 1978]  
***Orthotrichum anomalum*** Hedw. [Bartram 1931; Mahler  
 1978]  
***Orthotrichum diaphanum*** Brid. [Mahler 1978]  
***Orthotrichum hallii*** Sull. & Lesq. in Sull. [Bartram 1931;  
 Mahler 1978]  
***Orthotrichum laevigatum*** Zett. [Allred et al. 1998]  
***Orthotrichum obtusifolium*** Brid. [Mahler 1978]  
***Orthotrichum pumilum*** Sw. [Mahler 1978]  
***Orthotrichum pycnophyllum*** Schimp. [Vitt 1973]  
***Orthotrichum rupestre*** Schleich. ex Schwaegr. [Bartram  
 1931; Mahler 1978]  
***Orthotrichum tenellum*** Bruch ex Brid. [Mahler 1978]  
***Zygodon viridissimus*** (Dicks.) Brid. var. *ruprestris* Lindb.  
 ex Hartm. [Bartram 1931; Mahler  
 1978]  
*Zygodon viridissimus* (Dicks.) Brid. var. *vulgaris* Malta  
*Zygodon viridissimus* (Dicks.) Brid. var. *vulgaris* Malta = *Zygodon*  
*viridissimus* (Dicks.) Brid. var. *ruprestris*  
 Lindb. ex Hartm.

#### Family PLAGIOTHECIACEAE

***Plagiothecium denticulatum*** (Hedw.) Schimp. in B.S.G.  
 [Ireland et al. 1981]  
***Plagiothecium laetum*** Schimp. in B.S.G. [Mahler 1978]

#### Family POLYTRICHACEAE

*Atrichum rupestre* Hedw. : Reported by Mahler (1985), but not  
 included in North America by Smith-Merrill  
 (2007); awaits verification.  
***Atrichum selwynii*** Aust. [Mahler 1985; Smith-Merrill 2007]  
*Atrichum undulatum* (Hedw.) P. Beauv. : Reported by Bartram  
 (1931) and Mahler (1978), but scarcely in  
 North America fide Smith-Merrill (2007);  
 specimens await correct determination.

***Meiotrichum lyallii*** (Mitten) G.L. Smith [Conard & Redfearn 1979; Smith-Merrill 2007]  
*Polytrichum lyallii* (Mitten) Kindb.  
*Pogonatum alpinum* (Hedw.) Rhl. = *Polytrichastrum alpinum* (Hedw.) G.L. Smith  
***Polytrichastrum alpinum*** (Hedw.) G.L. Smith var. *alpinum* [Bartram 1931; Mahler 1985]  
*Pogonatum alpinum* (Hedw.) Rhl.  
***Polytrichastrum ohioense*** (Renauld & Cardot) G.L. Smith [Smith-Merrill 2007]  
***Polytrichastrum sexangulare*** (Bridel) G.L. Smith [Mahler 1978]  
*Polytrichum sexangulare* Bridel  
***Polytrichum juniperinum*** Hedw. [Bartram 1931; Mahler 1978]  
*Polytrichum lyallii* (Mitten) Kindb. = *Meiotrichum lyallii* (Mitten) G.L. Smith  
***Polytrichum piliferum*** Hedw. [Mahler 1985; Smith-Merrill 2007]  
*Polytrichum sexangulare* Bridel = *Polytrichastrum sexangulare* (Bridel) G.L. Smith

#### Family POTTIACEAE

***Aloina rigida*** (Hedw.) Limpr. [Mahler 1978]  
*Anoetangium obtusifolium* (Broth. & Paris in Card.) Grout = *Molendoa sendtneriana* (Bruch & Schimp. in B.S.G.) Limpr.  
***Astomum phascoides*** (Drumm.) Grout [Eckel 1986]  
*Weissia phascopsis* Zand.  
*Barbula acuta* (Brid.) Brid. = *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) Zand.  
*Barbula acuta* (Brid.) Brid. var. *bescherellei* (Sauerb. ex Jaeg.) Crum = *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) Zand.  
*Barbula bescherelei* Sauerb. = *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) Zander  
***Barbula ehrenbergii*** (Lor.) Fleisch. [Eckel 1988]  
*Barbula gracilis* Schwaegr. = *Didymodon rigidulus* Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) Zander  
*Barbula reflexa* (Brid.) Brid. = *Didymodon fallax* (Hedw.) Zand. var. *reflexus* (Brid.) Zand.  
*Barbula spiralis* (Schimp.) ex C. Muell. = *Pseudocrossidium replicatum* (Tayl.) Zand.  
***Barbula unguiculata*** Hedw. [Bartram 1931; Mahler 1978]  
***Bryoerythrophyllum recurvirostre*** (Hedw.) Chen [Bartram 1931; Mahler 1978]  
*Bryoerythrophyllum recurvirostre* (Hedw.) Chen var. *dentatum* (Schimp.) Crum et al.  
*Didymodon recurvirostris* Hedw.  
*Bryoerythrophyllum recurvirostre* (Hedw.) Chen var. *dentatum* (Schimp.) Crum et al. = *Bryoerythrophyllum recurvirostre* (Hedw.) Chen  
*Chenia rhizophylla* (Sak.) Zander = *Tortula rhizophylla* (Sak.) Iwats. & Saito  
***Crossidium aberrans*** Holz. & Bartr. [Ireland et al. 1981]  
***Crossidium crassinerve*** (De Not.) Jur. [Stark & Castetter 1986]  
***Crossidium seriatum*** Crum & Steere [Delgadillo-M. 1996]  
*Desmatodon cernuus* (Hb.) Bruch & Schimp. = *Tortula cernua* (Hübner) Lindberg  
*Desmatodon convolutus* (Brid.) Grout = *Tortula atroviron* (J.E. Smith) Lindberg  
*Desmatodon guepinii* Bruch & Schimp. in B.S.G. = *Tortula guepinii* (Bruch & Schimp.) Broth.

*Desmatodon heimii* (Hedw.) Mitt. = *Hennediella heimii* (Hedw.) Zander  
*Desmatodon latifolius* (Hedw.) Brid. = *Tortula euryphylla* Zander  
*Desmatodon latifolius* (Hedw.) Brid. var. *muticus* (Brid.) Brid. = *Tortula euryphylla* Zander  
*Desmatodon obtusifolius* (Schwaegr.) Schimp. = *Tortula obtusifolia* (Schwägrichen) Mathey  
*Desmatodon plinthobius* Sull. & Lesq. = *Tortula plinthobia* (Sull. & Lesq.) Austin  
***Didymodon anserinocapitatus*** (X.-j. Li) Zand. [Zander & Weber 1997]  
*Didymodon acutus* (Brid.) Saito = *Didymodon rigidulus* Hedw.  
*Didymodon australasiae* (Grev. & Hook.) Zander = *Trichostomopsis australasiae* (Grev. & Hook.) Robins.  
*Didymodon australasiae* (Hook. & Grev.) Zander var. *umbrosus* (C. Müll.) Zander = *Trichostomopsis australasiae* (Grev. & Hook.) Robins.  
***Didymodon brachyphyllus*** (Sull.) Zander [Zander & Ochyra 2001]  
***Didymodon fallax*** (Hedw.) Zand. var. *reflexus* (Brid.) Zand. [Bartram 1931; Mahler 1978]  
*Barbula reflexa* (Brid.) Brid.  
*Didymodon luridus* Hornsch. ex Spreng. = *Didymodon vinealis* (Brid.) Zander var. *luridus* (Hornsch. ex Spreng.) Zander  
*Didymodon recurvirostris* Hedw. = *Bryoerythrophyllum recurvirostre* (Hedw.) Chen  
***Didymodon revolutus*** (Cardot) Williams [Stark & Castetter 1982]  
***Didymodon rigidulus*** Hedw. var. *gracilis* (Schleich. ex Hook. & Grev.) Zand. [Bartram 1931; Mahler 1978; Stark & Castetter 1986]  
*Barbula acuta* Brid.  
*Barbula acuta* (Brid.) Brid. var. *bescherellei* (Sauerb. ex Jaeg.) Crum  
*Barbula bescherelei* Sauerb.  
*Didymodon acutus* (Brid.) Saito  
***Didymodon rigidulus*** Hedw. var. *icmadophilus* (C. Müll.) Zander [Allred et al. 1998]  
***Didymodon rigidulus*** Hedw. var. *rigidulus* [Bartram 1931]  
***Didymodon tectorum*** (C. Müll.) Saito [Zander & Ochyra 2001]  
***Didymodon tophaceus*** (Brid.) Lisa [Bartram 1931; Mahler 1978]  
*Didymodon trifarius* (Hedw.) Rhl. = *Saelania glaucescens* (Hedw.) Broth. (Ditrichaceae)  
***Didymodon vinealis*** (Brid.) Zander var. *luridus* (Hornsch. ex Spreng.) Zander [Stark & Castetter 1982]  
*Didymodon luridus* Hornsch. ex Spreng.  
***Didymodon vinealis*** (Brid.) Zander var. *vinealis* [Stark & Castetter 1982]  
***Eucladium verticillatum*** (Brid.) Bruch & Schimp. in B.S.G. [Bartram 1931; Mahler 1978]  
***Gymnostomum aeruginosum*** Sm. [Bartram 1931; Mahler 1978]  
*Gymnostomum calcareum* Nees & Hornsch.  
*Gymnostomum calcareum* Nees & Hornsch. = *Gymnostomum aeruginosum* Sm.  
***Hennediella heimii*** (Hedw.) Zander [Bartram 1931; Mahler 1978]  
*Pottia heimii* (Hedw.) Hampe  
*Husnotiella torquescens* (Card.) Bart. = *Didymodon australasiae* (Hook. & Grev.) Zander var. *australasiae*

- Hymenostomum tortile* (Schwaegr.) Bruch & Schimp. = *Weissia condensata* (Voit) Lindb.
- Hymenostylium recurvirostre*** (Hedw.) Dix. [Bartram 1931; Mahler 1978]
- Leptodontium flexifolium*** (With.) Hampe in Lindb. [Mahler 1978]
- Molendoa sendtneriana*** (Bruch & Schimp. in B.S.G.) Limpr. [Ireland et al. 1981; Stark & Castetter 1982]
- Anoetangium obtusifolium* (Broth. & Paris in Card.) Grout
- Neocardotia subnigra* (Mitt.) Ther. & Bartr. = *Rhexophyllum subnigrum* (Mitt.) Thr. ex Hilp.
- Oxystegus tenuirostris* (Hook. & Tayl.) A.J.E. Sm. = *Trichostomum tenuirostre* (Hook. & Tayl.) Lindb.
- Phascum cuspidatum*** Hedw. [Ireland et al. 1981]
- Pleurochaete squarrosa*** (Brid.) Lindb. [Mahler 1978]
- Pottia arizonica*** Wareh. var. *mucronulata* Wareh. [Ireland et al. 1981]
- Pottia bryoides*** (Dicks.) Mitt. [Allred et al. 1998]
- Pottia heimii* (Hedw.) Hampe = *Hennediella heimii* (Hedw.) Zander
- Pottia nevadensis*** Card. & Thr. [Ireland et al. 1984]
- Pottia texana*** Wareh. [Reported tentatively by Worthington 1996]
- Pseudocrossidium aureum*** (Bartr.) Zand. [Mahler 1978]
- Tortula aurea* Bartr.
- Pseudocrossidium replicatum*** (Tayl.) Zand. [Mahler 1978, as *Barbula spiralis*]
- Barbula spiralis* (Schimp.) ex C. Muell.
- Pterygoneurum cavifolium* (Ehrh.) Jur. = *Pterygoneurum ovatum* (Hedw.) Dix.
- Pterygoneurum ovatum*** (Hedw.) Dix. [Mahler 1978]
- Pterygoneurum cavifolium* (Ehrh.) Jur. [Grout 1928-1940]
- Pterygoneurum subsessile*** (Brid.) Jur. [Ireland et al. 1981]
- Rhexophyllum subnigrum*** (Mitt.) Thr. ex Hilp. [Bartram 1931; Mahler 1978]
- Neocardotia subnigra* (Mitt.) Ther. & Bartr.
- Syntrichia bartramii*** (Steere) Zander [Mahler 1978]
- Tortula bartramii* Steere in Grout
- Syntrichia caninervis*** Mitten [Flowers 1973, as *T. bistratosa* Flow.]
- Tortula bistratosa* Flow.
- Tortula caninervis* (Mitt.) Broth.
- Syntrichia fragilis*** (Taylor) Ochyra [Bartram 1931; Mahler 1978]
- Tortula fragilis* Taylor
- Syntrichia inermis*** (Brid.) Bruch [Mahler 1978]
- Tortula inermis* (Brid.) Mont.
- Syntrichia norvegica*** Weber & Mohr [Allred et al. 1998; Flowers 1973]
- Tortula norvegica* (Weber & Mohr) Wahlenb. ex Lindb.
- Syntrichia pagorum*** (Milde) Amann [Bartram 1931; Mahler 1978]
- Tortula pagorum* (Milde) De Not.
- Syntrichia papillosa*** (Wilson) Juratzka [Weber 1957]
- Tortula papillosa* Wilson
- Syntrichia papillosissima*** (Coppey) Loeske [Flowers 1973]
- Tortula papillosissima* (Coppey) Broth.
- Tortula ruralis* (Hedw.) Gaertn. var. *hirsuta* (Vent.) Paris
- Syntrichia ruralis*** (Hedw.) Weber & Mohr [Bartram 1931; Mahler 1978]
- Tortula ruralis* (Hedw.) Gaertn.
- Tortula ruralis* (Hedw.) Gaertn. et al. var. *crinita* De Not.
- Timmiella anomala*** (Bruch & Schimp. in B.S.G.) Limpr. [Stark & Castetter 1986]
- Tortella humilis*** (Hedw.) Jenn. [Ireland et al. 1981]
- Tortella tortuosa*** (Hedw.) Limpr. [Stark & Castetter 1982]
- Tortula aurea* Bartr. = *Pseudocrossidium aureum* (Bartr.) Zand.
- Tortula atrovirens*** (J.E. Smith) Lindberg [Stark & Castetter 1986]
- Desmatodon convolutus* (Brid.) Grout
- Tortula bartramii* Steere in Grout = *Syntrichia bartramii* (Steere) Zander
- Tortula bistratosa* Flow. = *Syntrichia caninervis* Mitten
- Tortula brevipes*** (Lesq.) Broth. [Allred et al. 1998]
- Tortula caninervis* (Mitt.) Broth. = *Syntrichia caninervis* Mitten
- Tortula cernua*** (Hübener) Lindberg [Crum & Anderson 1981]
- Desmatodon cernuus* (Hb.) Bruch & Schimp.
- Tortula chisoa*** Magill et al. [Magill et al. 1983; Stark & Castetter 1986]
- Tortula euryphylla*** Zander [Mahler 1978]
- Desmatodon latifolius* (Hedw.) Brid.
- Desmatodon latifolius* (Hedw.) Brid. var. *muticus* (Brid.) Brid.
- Tortula fragilis* Taylor = *Syntrichia fragilis* (Taylor) Ochyra
- Tortula guepinii*** (Bruch & Schimp.) Broth. [Mahler 1978]
- Desmatodon guepinii* Bruch & Schimp. in B.S.G.
- Tortula inermis* (Brid.) Mont. = *Syntrichia inermis* (Brid.) Bruch
- Tortula intermedia*** (Brid.) Berk. [Allred et al. 1998]
- Tortula montana* (Nees) Lindb.
- Tortula montana* (Nees) Lindb. = *Tortula intermedia* (Brid.) Berk.
- Tortula mucronifolia*** Schwaegr. [Bartram 1931; Mahler 1978]
- Tortula norvegica* (Weber & Mohr) Wahlenb. ex Lindb. = *Syntrichia norvegica* Weber & Mohr
- Tortula obtusifolia*** (Schwaegr.) Mathieu [Bartram 1931; Mahler 1978]
- Desmatodon obtusifolius* (Schwaegr.) Schimp.
- Tortula obtusissima*** (C. Müll.) Mitt. [Ireland et al. 1981]
- Tortula pagorum* (Milde) De Not. = *Syntrichia pagorum* (Milde) Amann
- Tortula papillosa* Wilson = *Syntrichia papillosa* (Wilson) Juratzka
- Tortula papillosissima* (Coppey) Broth. = *Syntrichia papillosissima* (Coppey) Loeske
- Tortula ruralis* (Hedw.) Gaertn. var. *hirsuta* (Vent.) Paris
- Tortula plinthobia*** (Sull. & Lesq.) Austin [Mahler 1978]
- Desmatodon plinthobius* Sull. & Lesq.
- Tortula rhizophylla*** (Sak.) Iwats. & Saito [Ireland et al. 1984]
- Chenia rhizophylla* (Sak.) Zander [Sharp et al. 1994]
- Tortula ruralis* (Hedw.) Gaertn. et al. var. *crinita* De Not. = *Syntrichia ruralis* (Hedw.) Weber & Mohr
- Tortula ruralis* (Hedw.) Gaertn. var. *hirsuta* (Vent.) Paris = *Syntrichia papillosissima* (Coppey) Loeske
- Tortula ruralis* (Hedw.) Gaertn. = *Syntrichia ruralis* (Hedw.) Weber & Mohr
- Tortula ruralis* (Hedw.) Gaertn. et al. var. *crinita* De Not.
- Trichostomopsis australasiae*** (Grev. & Hook.) Robins. [Stark & Castetter 1986; Ireland et al. 1984]

*Didymodon australasiae* (Grev. & Hook.) Zander  
*Didymodon australasiae* (Hook. & Grev.) Zander var.  
*umbrosus* (C. Müll.) Zander  
*Husnotiella torquescens* (Card.) Bart.  
***Trichostomum brachydontium*** Bruch in F. Muell. [Ireland  
et al. 1984]  
***Trichostomum crispulum*** Bruch in F. Muell. [Ireland et al.  
1984]  
***Trichostomum sweetii*** (Bartr.) Stark [Stark 1996]  
*Weissia sweetii* Bartr. [Stark 1996]  
***Trichostomum tenuirostre*** (Hook. & Tayl.) Lindb. [Ireland  
et al. 1984]  
*Oxystegus tenuirostris* (Hook. & Tayl.) A.J.E. Sm.  
***Weissia andersoniana*** Zander [Ireland et al. 1981; Stark &  
Castetter 1982]  
*Weissia glauca* Bartr.  
***Weissia condensa*** (Voit) Lindb. [Bartram 1931; Mahler  
1978; Worthington 1996]  
*Hymenostomum tortile* (Schwaegr.) Bruch & Schimp.  
*Weissia tortilis* (Schwaegr.) C. Müll.  
***Weissia controversa*** Hedw. [Bartram 1931; Mahler 1978]  
*Weissia viridula* Hedw.  
*Weissia glauca* Bartr. = *Weissia andersoniana* Zander  
***Weissia ligulaefolia*** (Bartr.) Grout [Stark & Castetter  
1982]  
*Weissia phascopsis* Zand. = *Astomum phascoides* (Drumm.) Grout  
*Weissia sweetii* Bartr. = *Trichostomum sweetii* (Bartr.) Stark  
*Weissia tortilis* (Schwaegr.) C. Müll. = *Weissia condensa* (Voit.)  
Lindb.  
*Weissia viridula* Hedw. = *Weissia controversa* Hedw.

Family PTYCHOMITRIACEAE

***Ptychomitrium leibergii*** Best [Ireland et al. 1984; Reese  
1998]

Family RHYTIDIACEAE

***Rhytidium rugosum*** (Hedw.) Kindb. [Bartram 1931;  
Mahler 1978]

Family SPHAGNACEAE

***Sphagnum fimbriatum*** Wils. [Coop 2002]

Family SPLACHNACEAE

***Tayloria acuminata*** Hornsch. [Crum & Anderson 1981]

Family STEREOPHYLLACEAE

***Stereophyllum radiculosum*** (Hook.) Mitt. [Grout 1945;  
Mahler 1978]

Family TETRAPHIDACEAE

***Tetraphis pellucida*** Hedwig [Allred et al. 1998]

Family THUIDIACEAE

***Abietinella abietina*** (Hedw.) Fleisch. [Bartram 1931;  
Mahler 1978]

*Thuidium abietinum* (Hedw.) Schimp.

*Thuidium abietinum* (Hedw.) Schimp. = *Abietinella abietina*  
(Hedw.) Fleisch.

***Thuidium delicatulum*** (Hedw.) Schimp. in B.S.G.  
[Bartram 1931; Mahler 1978]

*Thuidium delicatulum* (Hedw.) Schimp. in B.S.G. var. *radicans*  
(Kindb.) Crum et al. = *Thuidium philibertii*  
Limpr.

***Thuidium philibertii*** Limpr. [Mahler 1978]

*Thuidium delicatulum* (Hedw.) Schimp. in B.S.G. var.  
*radicans* (Kindb.) Crum et al.

Family TIMMIACEAE

***Timmia austriaca*** Hedwig [Bartram 1931; Mahler 1978]

*Timmia bavarica* Hessler = *Timmia megapolitana* Hedw. var.  
*bavarica* (Hessler) Bridel

***Timmia megapolitana*** Hedwig var. *bavarica* (Hessler)  
Bridel [Mahler 1978]

*Timmia bavarica* Hessler

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