

Amblystegiaceae**Amblystegium Bruch & Schimper, 1853****Amblystegium serpens (Hedwig) Bruch & Schimper var. juratzkanum (Schimper) Rau & Hervey**

WEBER73B.

Amblystegium juratzkanum Schimper.

Calliergon (Sullivant) Kindberg, 1894**Calliergon cordifolium (Hedwig) Kindberg**

WEBER73B; HERMA76.

Calliergon giganteum (Schimper) Kindberg

Larimer Co.: Pingree Park, 2960 msm, 25 Sept. 1980, [Rolston 80114], !Hermann.

*Calliergon megalophyllum Mikutowicz*COLO specimen so reported is *C. richardsonii*, fide Crum.**Calliergon richardsonii (Mitten) Kindberg**

WEBER73B.

Campyliadelphus (Lindberg) Chopra, 1975 KANDA75**Campyliadelphus chrysophyllum (Bridel) Kanda**

HEDEN97.

Campylium chrysophyllum (Bridel) J. Lange. WEBER63; WEBER73B; HEDEN97.

Hypnum chrysophyllum Bridel. HEDEN97.

Campyliadelphus stellatus (Hedwig) Kanda

KANDA75.

Campylium stellatum (Hedwig) C. Jensen. WEBER73B.

Hypnum stellatum Hedwig. HEDEN97.

Campylophyllum Fleischer, 1914 HEDEN97**Campylophyllum halleri (Hedwig) Fleischer**

HEDEN97. Nova Guinea 12, Bot. 2:123.1914.

Campylium halleri (Hedwig) Lindberg. WEBER73B; HERMA76.

Hypnum halleri Hedwig. HEDEN97.

Campylophyllum hispidulum (Bridel) Hedenäs

HEDEN97.

Campylium hispidulum (Bridel) Mitten. WEBER63,73B; HEDEN97.

Hypnum hispidulum Bridel. HEDEN97.

Cratoneuron (Sullivant) Spruce, 1867 OCHYR89**Cratoneuron filicinum (Hedwig) Spruce**

WEBER73B.

Drepanocladus (C. Müller) Roth, 1899 HEDEN97

Nomen conserv.

Drepanocladus aduncus (Hedwig) Warnstorf

WEBER73B.

Drepanocladus capillifolius (Warnstorf) Warnstorf. HERMA76.

Drepanocladus polygamus (Bruch & Schimper) Hedenäs

HEDEN97.

Amblystegium polygamum Bruch & Schimper.

Campyliadelphus polygamus (Bruch & Schimper) Kanda. KANDA76; HEDEN97.

Campylium polygamum (Bruch & Schimper) C. Jensen. HERMA76.

Hygroamblystegium Loeske, 1903**Hygroamblystegium notrophilum (Sullivant & Lesquereux ex Sullivant) Warnstorf**

JAMIE86.

Hygroamblystegium tenax (Hedwig) Jennings

WEBER63; WEBER73B.

Hygroamblystegium fluviatile (Hedwig) Loeske. HERMA76.

Hygroamblystegium fluviatile (Hedwig) Loeske var. orthocladon (P. Beauvois) Crum, Steere, & Anderson. WEBER73B.

Hygroamblystegium orthocladon (P. Beauvois) Loeske. WEBER73B; HERMA76.

Hygrohypnum S. O. Lindberg, 1872*Hygrohypnum alpestre (Hedwig) Loeske*JAMIE86. Jamieson now regards this report as a misidentification of *Scorpidium* (=Pseudocalliergon) *turgescens*..**Hygrohypnum bestii (Renauld & Bryhn ex Renauld) Holzinger ex Brotherus**

WEBER73B; JAMIE76.

Hygrohypnum cochlearifolium (Venturi in De Notaris) Brotherus

JAMIE76.

Hygrohypnum duriusculum (De Notaris) Jamieson

JAMIE76.

Hygrohypnum dilatatum (W. Wilson ex Schimper) Loeske. WEBER73B.

Hygrohypnum eugyrium (Bruch & Schimper) Loeske

JAMIE76. European and Eastern North American.

Hygrohypnum luridum (Hedwig) Jennings

WEBER73B; JAMIE76.

Hygrohypnum molle (Hedwig) Loeske

JAMIE76.

Hygrohypnum ochraceum (D. Turner ex W. Wilson) Loeske

WEBER73B; JAMIE76.

Hygrohypnum smithii (Swartz) Brotherus

HERMA76. JAMIE76 does not allow for Colorado, but he verified this collection!.

Hygrohypnum styriacum (Limpricht) Loeske

Jamieson, ined..

Leptodictyum (Schimper) Warnstorf, 1906**Leptodictyum humile (P. Beauvois) Ochyra**

OCHYR81. Larimer Co.: City of Fort Collins, Hermann 27069.

Leptodictyum kochii (Bruch & Schimper) Warnstorf. WEBER73B.

Leptodictyum trichopodium (C. F. Schultz) Warnstorf. HERMA76.

Leptodictyum riparium (Hedwig) Warnstorf

WEBER73B.

Palustriella Ochyra, 1989 OCHYR89; HEDEN97*Palustriella commutata (Hedwig) Ochyra*

OCHYR89; HEDEN97. Not in North America, according to Hedenas.

Cratoneuron commutatum (Hedwig) Roth. WEBER73B.

Palustriella decipiens (De Notaris) Ochyra

OCHYR89. Erroneous report.

Palustriella falcata (Bridel) Hedenäs

HEDEN97.

Cratoneuron falcatum (Bridel) Roth. HERMA76.

Cratoneuron williamsii Grout. HEDEN97. C. papillosum Grout, 1931. non Warnst., 1915.

Hypnum falcatum Bridel. HEDEN97.

Platydictya Berkeley, 1863

Crum and Anderson place this in Hypnaceae

Platydictya jungermannioides (Bridel) Crum

WEBER73B.

Amblystegiella sprucei (Bruch) Loeske. WEBER63.

Sanionia Loeske, 1907

Sanionia uncinata (Hedwig) Loeske

TUOMI80.

Drepanocladus uncinatus (Hedwig) Warnstorf. WEBER73B.

Sarmentypnum Tuomikoski & Koponen, 1979

Note correct spelling

Sarmentypnum sarmentosum (Wahlenberg) Tuomikoski & Koponen

TUOMI80.

Calliergon sarmentosum (Wahlenberg) Kindberg. WEBER73B.

Scorpidium Limpricht, 1899

Scorpidium cossonii (Schimper) Hedenäs

HEDEN89. Grand Co.: west face Longs Peak, siliceous rock ledges, 13,6090 ft., 22 Aug. 1938, Kiener 6824, det. Conard..

Drepanocladus intermedius Lindberg var. *cossonii* (Schimper) Warnstorf.

Hypnum cossonii Schimper.

Scorpidium revolvens (Swartz ex Anonymus) Rubers

HEDEN97. Hedenäs corrects the authorship.

Drepanocladus revolvens (Swartz) Warnstorf. WEBER73B.

Limprichtia revolvens (Swartz) Loeske. TUOMI80; HEDEN89.

Scorpidium scorpioides (Hedwig) Limpricht

COOPE91. Park Co: High Creek Fen.

Scorpidium turgescens (T. Jensen) Loeske

WEBER83B.

Calliergon turgescens (T. Jensen) Kindberg. WEBER63; WEBER73B.

Pseudocalliergon turgescens (T. Jensen) Loeske. HEDEN89.

Straminergon Hedenäs, 1993

J. Bryology 17:463.1993

Straminergon stramineum (Dickson ex Bridel) Hedenäs

J. Bryology 17:463.1993.

Calliergon stramineum (Bridel) Kindberg. WEBER63; WEBER73B.

Hypnum stramineum Bridel.

Warnstorfia Loeske, 1907

Warnstorfia exannulata (Bruch & Schimper) Loeske

TUOMI80.

Drepanocladus crassicosatus Janssens. JANS83B.

Drepanocladus exannulatus (Bruch & Schimper) Warnstorf. WEBER73B.

Drepanocladus exannulatus (Bruch & Schimper) Warnstorf forma *pseudotrichophyllus* F. J. Hermann. HERMA76. nom. nov..

Drepanocladus exannulatus (Bruch & Schimper) Warnstorf var. *rotae* auctt.. HERMA76. non *Amblystegium rotae* De Notaris.

Warnstorfia fluitans (Hedwig) Loeske

TUOMI80.

Drepanocladus fluitans (Hedwig) Warnstorf. HERMA76.

Warnstorfia trichophylla (Warnstorf) Tuomikoski & Koponen

TUOMI80. Misidentifications, fide Janssens.

Drepanocladus trichophyllus (Warnstorf) Podpera. WEBER73B.

Andreaeaceae

Andreaea Hedwig, 1801

Andreaea heinemannii Hampe & C. Müller

HERRMA87.

Andreaea rupestris Hedwig

WEBER73B.

Aulacomniaceae

Aulacomnium Schwaegrichen, 1827

Aulacomnium androgynum (Hedwig) Schwaegrichen

WEBER73B.

Aulacomnium palustre (Hedwig) Schwaegrichen var. imbricatum Bruch & Schimper

WEBER73B.

Aulacomnium palustre (Hedwig) Schwaegrichen var. palustre

WEBER73B.

Aulacomnium turgidum (Wahlenberg) Schwaegrichen

WEBER52B. Misidentification of *A. palustre* var. *imbricatum*.

Bartramiaceae

Anacolia Schimper, 1876

Anacolia laevisphaera (Taylor) Flowers

WEBER63; FLOWE52; HERMA80; GRIFF98. Griffin says our material is *Bartramia stricta* as I first supposed. *A. laevisphaera* only occurs in S. Ariz and S. CAL..

Anacolia menziesii (D. Turner) Paris

FLOWE52; HERMA80.

Bartramia Hedwig, 1801

Bartramia breviseta Lindberg

WEBER63. Specimens are annotated by Fransén as *B. subulata*.

Bartramia ithyphylla Bridel var. *breviseta* (Lindberg) Kindberg. WEBER73B.

Bartramia ithyphylla Bridel

WEBER73B.

Bartramia potosina Montagne

FRANS96. Sven Fransén annotations, 1988. This is the foothills plant thought to have been *B. viridissima*.

Bartramia stricta Bridel

WEBER73B; GRIFF98. Griffin cites Weber 7314 and shows how to distinguish this from *Anacolia laevisphaera*, but identification is still in doubt..

Bartramia subulata Bruch & Schimper

WEBER73B. Annotations by Fransén, 1988; this is the tundra plant originally thought to be *B. breviseta*.

Bartramia viridissima (Bridel) Kindberg

Erroneous report.

Philonotis Bridel, 1827

Philonotis fontana (Hedwig) Bridel

WEBER73B.

Philonotis americana Dismier.

Philonotis fontana (Hedwig) Bridel var. *caespitosa* (Juratzka) Schimper. HERMA87.

Philonotis fontana (Hedwig) Bridel var. *pumila* Bridel.

Philonotis tenella (Bridel) Jaeger var. *coloradensis* Renaud & Cardot. Bot. Gaz. 22:51. 1886. Invalid by Art. 34:1 ICBN. Type specimen from Colorado.

Philonotis tomentella Molendo in Lorentz. WEBER73B.

Philonotis marchica (Hedwig) Bridel

WEBER63.

Philonotis muhlenbergii (Schwaegrichen) Bridel

HERMA76. !Lawton.

Plagiopus Bridel, 1826

Plagiopus oederiana (Swartz) Crum & Anderson

WEBER73B.

Brachytheciaceae**Brachythecium Bruch & Schimper, 1853****Brachythecium asperrimum (C. Müller) Sullivant**

HERMA76.

Brachythecium calcareum Kindberg

COLO specimens, !H. Robinson.

Brachythecium collinum (C. Müller) Bruch & Schimper

WEBER73B.

Brachythecium erythrorrhizon Bruch & Schimper

WEBER73B; HERMA76.

Brachythecium fendleri (Sullivant) Jaeger & Sauerbach

WEBER73B.

Brachythecium leibergii Grout

HERMA76.

Brachythecium nelsonii Grout

WEBER73B.

Brachythecium oxycladon (Bridel) Jaeger

COLO specimens; still somewhat doubtful.

Brachythecium plumosum (Hedwig) Bruch & Schimper

WEBER73B; HERMA73.

Brachythecium rivulare Bruch & Schimper

WEBER73B.

Brachythecium rutabulum (Hedwig) Bruch & Schimper

WEBER73B; HERMA76.

Brachythecium salebrosum (F. Weber & Mohr) Bruch & Schimper

WEBER73B; HERMA76.

Brachythecium starkei (Bridel) Bruch & Schimper

WEBER73B; HERMA76.

Brachythecium turgidum (C. J. Hartman) Kindberg

WEBER73B.

Brachythecium velutinum (Hedwig) BSG var. venustum (De Notaris) Arcangeli

WEBER73B; HERMA76.

Cirriphyllum Grout, 1898**Cirriphyllum cirrosum (Schwaegrichen ex Schultes) Grout**

WEBER73B.

Cirriphyllum brandegei (Austin) Grout.

Cirriphyllum cirrosum (Schwaegrichen ex Schultes) Grout var. coloradense (Austin) Grout. Moss Fl. N. Amer. 3:25.1928. Type: PA: Alma [Mt. Lincoln], Biddlecome (NY). The isotype (COLO) was labeled C. brandegei by Austin.

Hypnum brandegei Austin. Bot. Gaz. 3:31.1878. Type: "Colorado", Brandegee (NY). Type specimen from Colorado.

Conardia H. Robinson, 1976**Conardia compacta (C. Müller) H. Robinson**

Rhynchostegiella compacta (C. Müller) Loeske.

Eurhynchium Bruch & Schimper, 1854

Eurhynchium pulchellum (Hedwig) Jennings

WEBER73B.

Homalothecium Bruch & Schimper, 1851*Homalothecium aureum (Lagasca) H. Robinson*WEBER63. Misidentification of *H. nevadense*.**Homalothecium nevadense (Lesquereux) Renaud & Cardot**WEBER73B; HOFMA98. HOFMA lists subsp. *aeneum* (Mitten) H. Hofmann and cites both from Boulder County! The subspecies seems to me an insignificant variant based on the shape of the operculum..**Rhynchostegium Bruch & Schimper, 1852****Rhynchostegium serrulatum (Hedwig) Jaeger & Sauerbach**

WEBER73B.

Scleropodium Bruch & Schimper, 1853

Erroneous report

Scleropodium obtusifolium (Hooker ex Drummond) Kindberg ex Macoun & Kindberg

SAYRE38. Reported from "contents of a fish stomach". Specimens not found.

Tomentypnum Loeske, 1911

Note correct spelling

Tomentypnum nitens (Hedwig) Loeske*Homalothecium nitens* (Hedwig) H. Robinson. WEBER73B.**Bryaceae****Anomobryum Schimper 1860****Anomobryum filiforme (Dickson) Solms**

SHARP94.

Anomobryum julaceum (Gaertner, Meyer, & Scherbius) Schimper. SHARP94.*Bryum filiforme* Dickson. SHARP94. Jamieson collection (ined.).*Pohlia filiformis* (Dickson) Andrews. CRUM81.**Bryum Hedwig, 1801****Bryum algovicum Sendtner ex C. Müller var. *rutheanum* (Warnstorf) Crundwell**

CRUND70; WEBER73B.

Bryum angustirete Kindberg.**Bryum alpinum Withering**

WEBER73B.

Bryum amblyodon C. Müller

OCHI80; SPENC88.

Bryum biddlecomiae Austin. SPENC88. Bot. Gaz. 2:110.1877. Type: Park Co.: Colorado [Alma], Biddlecome. Type specimen from Colorado.*Bryum inclinatum* (Bridel) Blandow.*Bryum stenotrichum* C. Müller.**Bryum argenteum Hedwig**

WEBER73B.

Bryum bicolor Dickson

WEBER73B.; SPENC88 does not list for North America. To be closely checked.

Bryum blindii Bruch & Schimper

WEBER87C.

Bryum caespiticium Hedwig

WEBER73B; SPENC88..

Bryum calobryoides Spence

SPENC87.

Bryum cyclophyllum (Schwaegrichen) Bruch & Schimper

WEBER73B; SPENC88.

Bryum tortifolium Funck ex Bridel.

Bryum flaccidum Bridel

SPENC88. Characterized by filiform gemmae in upper leaf axils. Reports of *B. capillare* pertain to this.

Bryum coloradense Kindberg. Rev. Bry. 36:98.1909. Type: Gunnison Co.: Crested Butte, 1908, N. Nelson. Spence does not evaluate.

Others place this in *B. capillare*.. Type specimen from Colorado.

Bryum gemmiparum De Notaris

HERMA76; SPENC88.

Bryum klinggraeffii Schimper ex Klinggraeff

LG: 2 mi S of Crook, Rolston B-81977, !Crundwell.

Bryum knowltonii Barnes

ROLST82; SPENS88..

Bryum lanatum P. Beauvois

SPENC88.

Bryum lisae De Notaris

SPENC88..

Bryum creberrimum Taylor. HERMA76; OCHI69.

Bryum muehlenbeckii Bruch & Schimper

SPENCE88. Implied inclusion of Colorado (present in all other western states).

Bryum pallens Swartz

SPENC88. Implied occurrence in Colorado, present in all other western states.

Bryum pallescens Schleicher ex Schwaegrichen

WEBER73B; SPENC88.

Bryum pseudotriquetrum (Hedwig) Gaertner

WEBER73B; SPENC88.

Bryum turbinatum (Hedwig) D. Turner

WEBER73B; SPENC88.

Splachnobryum kieneri R. S. Williams. ANDRE49. Bryologist 38:92.pl.5.1935. Type: Larimer Co.: Boulderfield, Long's Peak, 12,500 ft., Kiener 1443 (NY). Andrews (1949) showed this to be a misidentification. Type specimen from Colorado.

Bryum uliginosum (Bridel) Bruch & Schimper

JF: Clear Cr. Canyon, Weber & Lafarge B-43499, !J. Shaw.

Bryum weigellii Sprengel

WEBER73B; SPENC88..

Bryum leucobasis Kindberg. Rev. Bry. 36:99.1909. Type: Gunnison Co.: Cebolla, 1908, N. Nelson. Type specimen from Colorado.

Bryum wrightii Sullivant & Lesquereux

Clear Creek Co.; Mt. Evans, 13,500 ft., 6 July 1998, Weber B-104,080. New to Contiguous United States..

Leptobryum (Bruch & Schimper) W. Wilson, 1855

Leptobryum pyriforme (Hedwig) W. Wilson

WEBER73B.

Mielichhoferia Nees & Hornschuch, 1831

Mielichhoferia elongata (Hoppe & Hornschuch) Hornschuch

SHAW94.

Mielichhoferia macrocarpa (Hooker ex Drummond) Bruch & Schimper ex Jaeger & Sauerbach

WEBER73B; BRASS83.

Bryum nelsonii Kindberg. Rev. Bry. 36:98.1909. Type: Gunnison Co.: Gunnison, 1908, N. Nelson. Type specimen from Colorado.

Mielichhoferia mielichhoferiana (Funck) Loeske

SHAW94. European species; reports apply to [*M. elongata*].

Mielichhoferia mielichhoferii (Hooker) Wijk & Margadant. HARTM69; WEBER73B.

Plagiobryum S. O. Lindberg, 1863

Plagiobryum demissum (Hoppe & Hornschuch) S. O. Lindberg

WEBER63; WEBER73B.

Plagiobryum zierii (Hedwig) S. O. Lindberg

WEBER73B. CC: Summit L., Mt. Evans, Hermann 24368 p.p..

Pohlia Hedwig, 1801

Pohlia andalusica (Hoehnel) Brotherus in Engler & Prantl

SHAW82. See Map 16.

Pohlia annotina (Hedwig) Lindberg

HERMA76; SHAW82A. A species of suboceanic distribution.

Pohlia annotina (Hedwig) Lindberg var. *decipiens* Loeske. HERMA76. Shaw does not account for the taxon, but probably would put the Hermann collection under another species.

Pohlia bolanderi (Sullivant) Brotherus var. seriata Shaw

SHAW82A. Contr. Univ. Mich. Herb. 15:240-242.Fig.9.1982. Type: Gilpin Co.: 5 mi E Corona Pass, Shaw 2628 (MICH). Type specimen from Colorado.

Pohlia bulbifera (Warnstorf) Warnstorf

WEBER73B; HERMA76; SHAW82A.

Pohlia camptotrachela (Renauld & Cardot) Brotherus in Engler & Prantl

WEBER63; WEBER73B; SHAW81B; SHAW82A.

Pohlia cruda (Hedwig) Lindberg

WEBER73B; SHAW82A.

Pohlia drummondii (C. Müller) A. L. Andrews in Grout

WEBER73B; SHAW81B; SHAW82A.

Pohlia elongata Hedwig

WEBER73B; SHAW82A.

Pohlia elongata Hedwig var. *greenii* (Bridel) Shaw. SHAW82A. Evidently a tundra ecotype.

Pohlia longicollis (Hedwig) Lindberg

WEBER63; WEBER73B; SHAW82A.

Pohlia nutans (Hedwig) Lindberg

WEBER73B; SHAW82A.

Pohlia obtusifolia (Bridel) L. Koch

WEBER73B; SHAW82A.

Pohlia cucullata (Schwaegrichen) Lindberg. WEBER63.

Pohlia prolifera (Lindberg ex Breidler) Lindberg ex H. Arnell

WEBER63; SHAW81B.

Pohlia tundrae Shaw

SHAW82A.

Pohlia wahlenbergii (F. Weber & Mohr) A. L. Andrews in Grout

WEBER73B; SHAW82B.

Mniobryum wahlenbergii (F. Weber & Mohr) Jennings.

Pohlia albicans (Wahlenberg) Lindberg.

Rhodobryum (Schimper) Hampe, 1874

Erroneous report

Rhodobryum roseum (Hedwig) Lindberg

PORTE74. Specimen not found; possibly misidentification of *Roellia*.

Roellia Kindberg, 1897

Roellia roellii (Brotherus ex Roell) A. L. Andrews ex Crum

WEBER73B.

Bryum roellii Philibert.

Bryum sandbergii Holzinger. WEBER63.

Bryoxiphiaceae**Bryoxiphium Mitten, 1878****Bryoxiphium norvegicum (Bridel) Mitten**

Pursell ined. MZ: 6 mi NNW of Dolores, Pursell 3246a (COLO). The locality has since been destroyed by water impoundment..

Buxbaumiaceae**Buxbaumia Hedwig, 1801****Buxbaumia aphylla Hedwig**

WEBER63; WEBER73B.

Buxbaumia indusiata Bridel

WEBER63; WEBER73B.

Buxbaumia piperi Best

Jamieson, ined..

Climaciaceae**Climacium F. Weber & Mohr, 1804****Climacium dendroides (Hedwig) F. Weber & Mohr**

WEBER73B.

Ditrichaceae**Ceratodon Bridel, 1826****Ceratodon purpureus (Hedwig) Bridel**

WEBER73B.

Ceratodon minor Austin. reported by Kindberg, Rev. Bry. 36:99.1909.

Ceratodon purpureus (Hedwig) Bridel var. conicus (Hampe) Husnot.

Distichium Bruch & Schimper, 1846**Distichium capillaceum (Hedwig) Bruch & Schimper**

WEBER73B.

Swartzia montana Lindberg.

Distichium inclinatum (Hedwig) Bruch & Schimper

WEBER73B.

Ditrichum Hampe, 1867**Ditrichum flexicaule (Schwaegrichen) Hampe**

WEBER63; WEBER73B.

Ditrichum flexicaule (Schwaegrichen) Hampe var. sterile (De Notaris) Limpricht. WEBER73B.

Ditrichum giganteum R. S. Williams. CRUM81. See discussion, p. 128.

Saelania S. O. Lindberg, 1878**Saelania glaucescens (Hedwig) Brotherus**

WEBER73B.

Dricranaceae**Anisothecium Mitten, 1869****Anisothecium schreberianum (Hedwig) Dixon**

Dicranella schreberiana (Hedwig) Hilfers ex Crum & Anderson. HERMA76.

Anisothecium vaginale (Withering) Loeske

GA: Adam's Falls, Rocky Mt. Nat. Park, Vitt 15318.

Dicranella crispa (Hedwig) Schimper.**Anisothecium varium (Hedwig) Mitten**

WEBER63.

Dicranella varia (Hedwig) Schimper. WEBER73B.**Campylopus Bridel, 1818****Campylopus schimperi Milde**According to Frahm, *C. subulatus* is distinct from this..***Campylopus subulatus* Schimper in Rabenhorst**WEBER73B. Colorado plants are *C. schimperi*, fide Frahm.**Cnestrum Hagen, 1915****Cnestrum schistii (Wahlenberg) Hagen**

WEBER63; WEBER73B.

Cynodontium schistii (Wahlenberg) Lindberg.**Cynodontium Bruch & Schimper, 1846****Cynodontium gracilescens (F. Weber & Mohr) Schimper**

WEBER73B; HERMA76.

Cynodontium polycarpum (Hedwig) Schimper

WEBER73B.

Cynodontium strumiferum (Hedwig) Lindberg

HERMA87. GA: Fraser R. near Winter Park, [Vitt 15360 (COLO)].

Dichodontium Schimper, 1856**Dichodontium pellucidum (Hedwig) Schimper**

WEBER73B.

Dicranella (C. Müller) Schimper, 1856**Dicranella crispa (Hedwig) Schimper**

HERMA87. GA: Vitt 15360 (COLO).

Dicranella subulata (Hedwig) Schimper

WEBER63; WEBER73B.

Dicranodontium Bruch & Schimper, 1847**Dicranodontium denudatum (Bridel) E. G. Britton ex R. S. Williams**

HERMA87. Rocky Mt. Nat. Park, Frahm 844475 (COLO).

Dicranoweisia Lindberg ex Milde, 1869**Dicranoweisia crispula (Hedwig) Lindberg ex Milde**

FLOWE56.

Dicranum Hedwig, 1801**Dicranum bonjeanii De Notaris ex Lisa**

Ireland claims this is distinct.

Dicranum brevifolium (Lindberg) Lindberg

W. Peterson annotations.

Dicranum elongatum Schleicher ex Schwaegrichen

WEBER63; WEBER73B.

Dicranum fuscescens D. Turner

WEBER73B.

Dicranum muehlenbeckii Bruch & Schimper

WEBER73B.

Dicranum polysetum Swartz

W. Peterson annotations.

Dicranum scoparium Hedwig

WEBER73B.

Dicranum spadiceum Zetterstedt

W. Peterson annotations.

Kiaeria Hagen, 1915**Kiaeria starkei (F. Weber & Mohr) Hagen**

HERMA76.

Oncophorus (Bridel) Bridel, 1826**Oncophorus virens (Hedwig) Bridel**

WEBER73B.

Oncophorus wahlenbergii Bridel

WEBER73B.

Oreas Bridel, 1826**Oreas martiana (Hoppe & Hornschuch ex Hornschuch) Bridel**

WEBER73B. Much more common and widespread than stated in WEBER73B.

Orthodicranum (Bruch & Schimper) Loeske, 1910**Orthodicranum flagellare (Hedwig) Loeske**

LR: Buckhorn Canyon, 7,000 ft., Rolston 81018, !Hermann (COLO).

Dicranum flagellare Hooker.

Orthodicranum rhabdocarpum (Sullivant) Holzinger

WEBER73B.

Dicranum rhabdocarpum Sullivant.

Orthodicranum strictum Culmann

This combination used by Churchill, Musci Planitiebus Incola Exsicc..

Dicranum tauricum Sapehin. WEBER73B.

Orthodicranum tauricum (Sapehin) Smirnov. WEBER76A. Smirnov's combination (1969) antedates that of Weber.

Paraleucobryum (Lindberg) Loeske, 1907**Paraleucobryum enerve (Thedin ex C. J. Hartman) Loeske**

WEBER73B.

Campylopus hallii Lesquereux.

Paraleucobryum longifolium (Hedwig) Loeske

WEBER73B.

Paraleucobryum longifolium (Hedwig) Loeske var. subalpinum (Milde) Grout.

Paraleucobryum sauteri (Bruch & Schimper) Loeske

WEBER73B. A good species but not Paraleucobryum, according to Frahm. Possibly an Orthodicranum.

Rhabdoweisia Bruch & Schimper, 1846**Rhabdoweisia crispata (Withering) Lindberg**

Jamieson ined. Vertical cliff, Coalbank Hill..

Enacalyptaceae**Encalypta Hedwig, 1801****Encalypta alpina J. E. Smith**

WEBER73B; HORTO83.

Encalypta ciliata Hedwig

WEBER73B; HORTO83.

Encalypta intermedia Juratzka

HORTO83.

Encalypta procera Bruch

HERMA76; HORTO83.

Encalypta rhapsodocarpa Schwaegrichen

HORTO83.

Encalypta vulgaris Hedwig

HORTO83.

Entodonaceae**Entodon C. Müller, 1845****Entodon concinnus (De Notaris) Paris**

WEBER73B.

Fabroniaceae**Fabronia Raddi, 1808****Fabronia ciliaris (Bridel) Bridel**

COLO specimens.

Fabronia pusilla Raddi

WEBER73B. Misidentification.

Fabronia wrightii Sullivant

COLO specimens.

Fissidentaceae**Fissidens Hedwig, 1801****Fissidens bryoides Hedwig**

WEBER73B; HERMA76.

Fissidens fontanus (La Pylaie) Steudel

WEBER73B. Collected in adjacent New Mexico and only lack of field work prevents its discovery in Colorado.

Fissidens obtusifolius W. Wilson

WEBER73B.

Fissidens osmundoides Hedwig

WEBER73B.

Fissidens sublimbatus Grout

HERMA76.

Fissidens viridulus (F. Weber & Mohr) Wahlenberg

WEBER73B.

Fontinaiaceae**Dichelyma Myrin, 1833****Dichelyma falcatum (Hedwig) Myrin**

WEBER63; WEBER73B.

Dichelyma uncinatum Mitten

HERMA76.

Fontinalis L. ex Hedwig, 1801

Fontinalis antipyretica Hedwig

WEBER73B.

Fontinalis hypnoides C. J. Hartman

WEBER73B.

Fontinalis duriaei Schimper. WEBER73B.

Fontinalis neomexicana Sullivant & Lesquereux

WEBER73B.

Funariaceae***Aphanorhegma Sullivant, 1848***

Erroneous report

Aphanorhegma serratum (Hooker f. & Wilson ex Drummond) Sullivant

JAMES78. Misidentification of Physcomitrium immersum.

Entosthodon Schwaegrichen. 1823**Entosthodon tucsonii (Bartram) Grout**

ALLEN80. MZ, coll. Pursell.

Funaria Hedwig, 1801*Funaria americana Lindberg*WEBER73B. Specimen in question is *F. muhlenbergii*.**Funaria hygrometrica Hedwig**

WEBER73B.

Funaria microstoma Bruch ex Schimper

FIFE79; HERMA87. El Paso Co.: Pikes Peak, Shantz 47 (FH); Gilpin Co.: Tolland, GroutB-19528; Park Co.: Weber B-100439.

Funaria muhlenbergii Hedwig f. ex D. Turner

!D. J. Smith, 1973.

Physcomitrium Bridel, 1827**Physcomitrium hookeri Hampe**

WEBER73B.

Physcomitrium immersum Sullivant in A. Gray

WEBER73B.

Physcomitrium pyriforme (Hedwig) De Notaris

WEBER73B.

Physcomitrium turbinatum (Michaux) Bridel. WEBER63.***Pyramidula Bridel, 1818***

Erroneous report

Pyramidula tetragona (Bridel) Bridel

WEBER73. Specimen collected by Hall "on the plains," probably in Nebraska.

Grimmiaceae**Coscinodon Sprengel, 1804****Coscinodon calyptratus (Hooker ex Drummond) C. Jensen in Kindberg**

WEBER73B.

Grimmia calyptrata Hooker ex Drummond.**Grimmia Hedwig, 1801****Grimmia affinis Hornschuch**

WEBER73B.

Grimmia alpestris (F. Weber & Mohr) Schleicher ex Nees, Hornschuch, & Sturm

WEBER73B.

Grimmia coloradensis Austin. Bot. Gaz. 2:109.1877. Type: "Colorado", Brandegee. Dubious status, type not examined. Type specimen from Colorado.

***Grimmia anodon* Bruch & Schimper**

WEBER73B.

***Grimmia anomala* Hampe in Schimper**

WEBER73B; HERMA76.

***Grimmia donniana* J. E. Smith ex Smith & Sowerby**

WEBER73B. Somewhat doubtful that we really have this in Colorado.

***Grimmia elatior* Bruch ex Balsamo & De Notaris**

WEBER63; WEBER73B.

***Grimmia elongata* Kaulfuss in Sturm**

HERMA76.

***Grimmia incurva* Schwaegrichen**

WEBER73B.

***Grimmia laevigata* (Bridel) Bridel**

WEBER73B.

***Grimmia montana* Bruch & Schimper**

WEBER73B.

Grimmia brachyodon (Sullivant & Lesquereux) Austin. Bull. Torr. Bot. Club 6:45.1875. (Presumably collected by Brandegee, as the other species noted).

***Grimmia ovalis* (Hedwig) Lindberg**

WEBER73B.

***Grimmia plagiopodia* Hedwig**

WEBER73B.

***Grimmia pulvinata* (Hedwig) J. E. Smith ex Smith & Sowerby**

WEBER73B.

***Grimmia teretinervis* Limpricht**

IRELA82.

***Grimmia torquata* Hornschuch & Greville**

WEBER63; WEBER73B.

Grimmia subincurva Austin. Bot. Gaz. 3:31.1878. Type seen; Jones erred in assigning this to *G. apocarpa conferta*.

***Grimmia trichophylla* Hooker & Greville**

Misidentifications.

Grimmia cognata Cardot & Thériot.

Hydrogrimmia (Hagen) Loeske, 1910

***Hydrogrimmia mollis* (Bruch & Schimper) Loeske**

WEBER63; WEBER73B.

Grimmia mollis Bruch & Schimper.

Jaffuelobryum Thériot, 1928

***Jaffuelobryum raii* (Austin) Thériot**

CHURC87.

Grimmia raii Austin. Bull. Torr. Bot. Club 6:46.1875. Type: "Colorado", Brandegee. Type specimen from Colorado.

***Jaffuelobryum wrightii* (Sullivant) Thériot**

CHURC87.

Coscinodon wrightii Sullivant.

Grimmia wrightii (Sullivant) Austin.

Racomitrium Bridel, 1819

Racomitrium aciculare (Hedwig) BridelHERMA76. Misidentification of *R. anisophyllum*.***Racomitrium anisophyllum* H. Ochyra ined.**

Jackson Co.: Roxy Ann L. trail, Rolston B-82185; Upper Slide Lake, Roston B-82205; Lone Pine Creek trail, Hermann 26734. !H. Ochyra.

***Racomitrium canescens* (Hedwig) Bridel**

WEBER63; WEBER73B.

***Racomitrium fasciculare* (Hedwig) Bridel**

WEBER63; WEBER73B.

***Racomitrium heterostichum* (Hedwig) Bridel**

HERMA76.

Racomitrium sudeticum (Funck) Bruch & Schimper.**Schistidium Bridel, 1819 BLOM96**

Annotations by H. H. Blom, 1990

***Schistidium agassizii* Sullivant & Lesquereux in Sullivant**

WEBER73B.

Grimmia agassizii (Sullivant & Lesquereux in Sullivant) Jaeger & Sauerbach. WEBER63.*Grimmia alpicola* Hedwig. BREME80A.*Schistidium alpicola* (Hedwig) Lindberg. BREME80B.***Schistidium ambiguum* Sullivant**

Larimer Co.: Laramie River road, Rolston B-94691, !Blom.

Schistidium apocarpum (Hedwig) Bruch & Schimper

WEBER73B; BLOM96. Does not occur in America except in Newfoundland.

Grimmia apocarpa Hedwig.***Schistidium atrichum* (C. Müller & Kindberg in Macoun) Blom**

Jackson Co.: Lake Katherine, Hermann B-52806, !Blom.

Grimmia atricha C. Müller & Kindberg in Macoun. HERMA76.***Schistidium confertum* (Funck) Bruch & Schimper**

BLOM96. Boulder Co.: Middle Boulder Cr., Hermann B-47207, !Blom.

Grimmia brandegei Austin. Type: Colorado, Brandege (=S. confertum?). Type specimen from Colorado.***Schistidium dupretii* (Thériot) W. A. Weber**

BLOM96. Pitkin Co.: Clebsch 13423, San Juan Co.: S Mineral Cr., Griffin cited by Blom.

Grimmia dupretii Thériot. HERMA76.***Schistidium flaccidum* (De Notaris) Ochyra**

BLOM96. Gunnison Co.: Copper Creek, Weber & Shushan B-14828, !Blom.

***Schistidium frigidum* Blom**

BLOM96. Grand Co.: Rocky Mt. Nat. Park, Hermann B-52788.

***Schistidium lingulatum* Blom, ined.**

Ouray Co.: Camp Bird Mine, Hermann B-37488.

Schistidium occidentale* (Lawton) comb. nov. ined.Grimmia occidentalis* Lawton.***Schistidium papillosum* Culmann in Amann**

BLOM96. Grand, Clear Creek, San Juan, Hinsdale Co.: Lake City, Hermann B-52428, !Blom.

***Schistidium pulchrum* Blom**

BLOM96. Hinsdale Co.: Lake City, Hermann B-52429; Larimer Co.: Fall River Campgr., RMNP, Hermann 23512 !Blom.

***Schistidium rivulare* (Bridel) Podpera**

BREME80A.

Schistidium alpicola auctt.. WEBER73B; BREME80A.***Schistidium tenerum* (Zetterstedt) Nyholm**

IRELA64; BLOM96. Larimer, Clear Creek, Custer, Hinsdale, cited by Blom.

Grimmia tenera Zetterstedt.

Grimmia tenuicaulis R. S. Williams. WEBER63.

Schistidium trichodon (Bridel) Poelt var. nutans Blom

BLOM96. Ouray, Pitkin, Larimer, !Blom.

Schistidium trichodon (Bridel) Poelt var. trichodon

BLOM96. Larimer Co.: Rocky Mt. Nat. Park, Cub Lake trail, Hermann B-42310, !Blom.

Hedwigiaceae

Hedwigia P. Beauvois, 1804

Hedwigia ciliata (Hedwig) P. Beauvois

WEBER73B.

Hylocomiaceae

Hylocomiastrum Fleischer ex Brotherus, 1925

Hylocomiastrum pyrenaicum (Spruce) Fleischer

ROHRE85.

Hylocomium pyrenaicum (Spruce) Lindberg. WEBER63; WEBER73B.

Hylocomium Bruch & Schimper, 1852

Hylocomium splendens (Hedwig) Bruch & Schimper

ROHRE85; WEBER63; WEBER73B.

Hylocomium splendens (Hedwig) Bruch & Schimper var. *alaskanum* (Lesquereux & James) C. Jensen.

Pleurozium (Sullivant) Mitten, 1869

Pleurozium schreberi (Bridel) Mitten

WEBER73B.

Hypnaceae

Homomallium (Schimper) Loeske, 1907

Homomallium adnatum (Hedwig) Brotherus

WEBER73B.

Homomallium mexicanum Cardot

HERMA76.

Hypnum Hedwig, 1801

Hypnum cupressiforme Hedwig

WEBER73B.

Hypnum lindbergii Mitten

WEBER73B.

Hypnum pratense W. Koch ex Spruce

WEBER73B.

Hypnum revolutum (Mitten) Lindberg

WEBER73B.

Hypnum vaucheri Lesquereux

WEBER73B.

Isopterygium Mitten, 1869

Isopterygium pulchellum (Hedwig) Jaeger & Sauerbach

WEBER73B. Family designation by CRUM81.

Orthothecium Bruch & Schimper, 1852

Orthothecium chryseum (Schwaegrichen ex Schultes) Bruch & Schimper

WEBER73B. Family designation according to CRUM81.

Orthothecium diminutivum (Grout) Crum, Steere, & Anderson

WEBER73B. Family designation by CRUM81.

Holmgrenia diminutiva Grout. Moss Fl. N. Amer. 3:172-173.1932. Type: Gilpin Co.: Tolland, July 1913, Grout (NY). Type specimen from Colorado.

Orthothecium strictum Lorentz

HERMA76.

Ptilium (Sullivant) De Notaris, 1867**Ptilium crista-castrensis (Hedwig) De Notaris**

HERMA87.

Pylaisiella Kindberg, 1896**Pylaisiella polyantha (Hedwig) Grout**

WEBER73B.

Pylaisia polyantha Hedwig.

Leskeaceae**Anomodon Hooker f. & Taylor, 1818**

Crum & Anderson place this in Thuidiaceae

Anomodon attenuatus (Hedwig) Huebener**Anomodon rostratus (Hedwig) Schimper**

WEBER73B.

Leptopterigynandrum C. Müller, 1897**Leptopterigynandrum austro-alpinum C. Müller**

BUCK80.

Garysmithia bicostata Steere. Phytologia 36:165-170.1977.

Lescuraea Bruch & Schimper, 1851**Lescuraea arizonae (R. S. Williams) Wilson & Norris**

WILSO89.

Leskeella arizonae (R. S. Williams) Flowers. WILSO89.

Pseudoleskeella arizonae (R. S. Williams) Lawton. ALLEN80; WILSO89.

Lescuraea incurvata (Hedwig) Lawton

LAWTO57; WEBER73B.

Lescuraea patens (Lindberg) H. Arnell & C. Jensen

LAWTO57; WEBER73B.

Lescuraea radicata (Mitten) Moenkemeyer

LAWTO57; WEBER73B.

Lindbergia Kindberg, 1897**Lindbergia brachyptera (Mitten) Kindberg var. austinii (Sullivant) Grout**

WEBER73B.

Pseudoleskeella Kindberg WILSO89**Pseudoleskeella tectorum (Bridel) Kindberg ex Brotherus**

WEBER73B; WILSO89.

Pterigynandrum Hedwig, 1801**Pterigynandrum filiforme Hedwig**

WEBER73B. Family assignment by CRUM81.

Pterigynandrum filiforme Hedwig var. *majus* De Notaris.

Pterigynandrum filiforme Hedwig var. *papillosulum* (C. Müller & Kindberg) Grout. WEBER63.

Leucodontaceae

Antitrichia Bridel, 1818

Erroneous report

Antitrichia californica Sullivant

Allegedly collected near Idaho Springs, by O. Degener on a cross-continental trip; undoubtedly a mix-up in data.

Meesiaceae

Amblyodon Bruch & Schimper, 1841

Amblyodon dealbatus (Hedwig) Bruch & Schimper

WEBER73B.

Meesia Hedwig, 1788

Meesia uliginosa Hedwig

WEBER73B; VITT92.

Paludella Bridel, 1817

Paludella squarrosa (Hedwig) Bridel

COOPE91. CC: Guanella Pass, D. Cooper 1618.

Mniaceae

Mnium Hedwig, 1801

Mnium arizonicum Amann

KOPON72; WEBER73B.

Mnium saximontanum Bowers. BOWER69B.

Mnium blyttii Bruch & Schimper

WEBER73B.

Mnium marginatum (Withering) Bridel ex P. Beauvois

WEBER73B.

Mnium lycopodioides Schwaegrichen. KOPON78.

Mnium riparium Mitten

HERMA76; KOPON78. *Ochyra exsiccati*.

Mnium ambiguum H. Müller. KOPON78. *Ochyra exsiccati*.

Mnium spinosum (Voit) Schwaegrichen

WEBER73B; KOPON73; STEER74.

Mnium spinulosum Bruch & Schimper

WEBER73B; HERMA76.

Mnium thomsonii Schimper

KOPON72; WEBER73B.

Mnium orthorrhynchum Bridel.

Mnium trichomanes Mitten

BOWER69A. Misidentification, fide Koponen.

Plagiomnium Koponen, 1968

Plagiomnium ciliare (C. Müller) Koponen

KOPON71; WEBER73B; KOPON88. *Plagiomniaceae*, fide KOPON88.

Plagiomnium cuspidatum (Hedwig) Koponen

KOPON71; WEBER73B.

Mnium cuspidatum Hedwig.

Plagiomnium ellipticum (Bridel) Koponen

KOPON71; WEBER73B.

Mnium rugicum Laurer.

Plagiomnium rugicum (Laurer) Koponen.

Plagiomnium medium (Bruch & Schimper) Koponen,

KOPON71; WEBER73B.

Mnium medium Bruch & Schimper.

Rhizomnium (Brotherus) Koponen

Rhizomnium andrewsianum (Steere) Koponen

BOWER69A; KOPON88. Misidentification, fide Koponen. Genus belongs in Cinclidiaceae, fide KOPON88.

Mnium andrewsianum Steere.

Rhizomnium magnifolium (Horikawa) Koponen

KOPON71; WEBER73B.

Mnium punctatum Hedwig var. *elatum* Schimper.

Rhizomnium perssonii Koponen.

Rhizomnium pseudopunctatum (Bruch & Schimper) Koponen

KOPON68; WEBER73B.

Mnium pseudopunctatum Bruch & Schimper.

Rhizomnium punctatum (Hedwig) Koponen

KOPON68B. Erroneous report.

Mnium punctatum Hedwig.

Neckeraceae

Leptodon F. Weber & Mohr, 1803

Leptodon smithii (Hedwig) F. Weber & Mohr

NELSO73.

Neckera Hedwig, 1801

Neckera douglasii Hooker

WEBER73B. Two specimens without precise data, Brandegee and Mrs. Spence (NY).

Neckera pennata Hedwig

WEBER73B.

Orthotrichaceae

Amphidium Schimper, 1856

Amphidium lapponicum (Hedwig) Schimper

WEBER73B.

Amphidium mougeotii (Bruch, Schimper, & Guembel) Schimper

Douglas Co., !Eckel 1995.

Orthotrichum Hedwig, 1801

Orthotrichum alpestre Hornschuch ex Bruch & Schimper

VITT73; WEBER73B.

Orthotrichum anomalum Hedwig

VITT73; HERMA76.

Orthotrichum cupulatum Bridel

VITT73; HERMA76.

Orthotrichum diaphanum Bridel

VITT73; WEBER73B.

Orthotrichum hallii Sullivant & Lesquereux ex Sullivant

VITT73; WEBER73B. *Icones Musc. Suppl.* p.63,Pl.45.1874. Type: "Colorado, Rocky Mts.," 1872, Hall (FH-SULL). Type specimen from Colorado.

Orthotrichum laevigatum Zetterstedt

VITT73; WEBER73B.

Orthotrichum hainesiae Austin. VITT73. Bull. Torr. Bot. Club 6:342.1879. Type: Colorado, Haines (NY). Type specimen from Colorado.

Orthotrichum raui Austin. VITT73. Bull. Torr. Bot. Club 6:343.1879. Type: Colorado, Brandegee (NY). Type specimen from Colorado.

Orthotrichum speciosum Nees in Sturm var. *hainesiae* (Austin) Paris. VITT73.

Orthotrichum speciosum Nees in Sturm var. *raui* (Austin) Lesquereux & James. VITT73.

Orthotrichum obtusifolium Bridel

VITT73; HERMA76.

Nyholmiella obtusifolia (Bridel) Holmen & Warncke.

Stroemia obtusifolia (Bridel) Hagen.

Orthotrichum pallens Bruch ex Bridel

VITT73; WEBER73B. BL: Rocky Flats, Kunkel.

Orthotrichum jamesianum Sullivant ex T. P. James. VITT73; WEBER73B.

Orthotrichum pellucidum Lindberg

LEWIN78.

Orthotrichum jamesianum Sullivant ex T. P. James. VITT73; WEBER73B.

Orthotrichum pumilum Swartz

VITT73; WEBER73B.

Orthotrichum rupestre Schleicher ex Schwaegrichen

VITT73; WEBER73B.

Orthotrichum texanum Sullivant.

Orthotrichum speciosum Nees in Sturm

VITT73. Most collections represent *O. laevigatum*, but Grout's specimen (Tolland) is *O. lyellii*, certainly not collected in Colorado.

Orthotrichum tenellum Bruch ex Bridel

VITT73. Erroneous report.

Zygodon Hooker f. & Taylor, 1818

Erroneous report

Zygodon viridissimus (Dickson) Bridel var. rupestris C. J. Hartman

Misidentifications of *Molendoa*.

Plagiotheciaceae**Plagiothecium Bruch & Schimper, 1852****Plagiothecium cavifolium (Bridel) Iwatsuki**

IRELA69; HERMA76, 78.

Plagiothecium denticulatum (Hedwig) Bruch & Schimper

IRELA69; WEBER73B.

Plagiothecium laetum Bruch & Schimper

IRELA69; WEBER73.

Polytrichaceae**Atrichum P. Beauvois, 1804****Atrichum undulatum (Hedwig) P. Beauvois var. selwynii (Austin) Frye**

IRELA69.

Atrichum selwynii Austin. IRELA69; WEBER73B.

Meiotrichum (G. Smith) G. K. Merrill MERRI92**Meiotrichum lyallii (Mitten) G. K. Merrill**

MERRI92.

Polytrichadelphus lyallii Mitten.

Polytrichastrum lyallii (Mitten) G. L. Smith. WEBER73B; SMITH71; MERRI92.

Pogonatum P. Beauvois, 1804 HYVON89**Pogonatum urnigerum (Hedwig) P. Beauvois**

WEBER73B.

Polytrichastrum G. L. Smith, 1971**Meiotrichum lyallii (Mitten) G. K. Merrill**

MERRI92.

Polytrichadelphus lyallii Mitten.

Polytrichastrum lyallii (Mitten) G. L. Smith. WEBER73B; SMITH71; MERRI92.

Polytrichum Hedwig, 1801**Polytrichum commune Hedwig**

WEBER73B.

Polytrichum juniperinum Willdenow ex Hedwig

WEBER73B.

Polytrichum piliferum Hedwig

WEBER73B.

Polytrichum strictum Menzies ex Bridel

WEBER73B.

Pottiaceae**Aloina (C. Müller) Kindberg, 1882****Aloina bifrons (De Notaris) Delgadillo**

DELGA73.

*Aloina brevirostris (Hooker & Greville) Kindberg*Colorado reports apply to *A. bifrons*.**Aloina rigida (Hedwig) Limpricht**

DELGA73; WEBER73B; HERMA76.

Barbula Hedwig, 1801*Barbula reflexa Bridel*WEBER63. Misidentification of *Didymodon asperifolius*.*Barbula spiralis Schimper*Misidentification of *Tortula obtusifolia*.**Barbula unguiculata Hedwig**

HERMA76.

Bryoerythrophyllum Chen, 1941**Bryoerythrophyllum ferruginascens (Stirton) Giacomini**

WEBER73B.

Bryoerythrophyllum recurvirostrum (Hedwig) Chen

WEBER73B.

Crossidium Juratzka, 1882**Crossidium aberrans Holzinger & Bartram**WEBER73B; DELGA75. CRUM81, p.356, cited this specimen as *C. crassinerve* (De Notaris) Juratzka. Specimen should be re-examined.**Crossidium squamiferum (Viviani) Juratzka**

DELGA75.

Crossidium squamiferum (Viviani) Juratzka subsp. *griseum* (Juratzka) Giacomini. WEBER63. as "squamigerum".*Crossidium squamiferum* (Viviani) Juratzka var. *pottioideum* (De Notaris) Moenkemeyer. ALLEN80. Montezuma Co: Pursell.**Didymodon Hedwig, 1801 ZANDE93**

Didymodon anserinocapitatus (X.-j. Li) Zander

ZANDE93. Fremont Co.: Red sandstone cliff, 3 miles up Phantom Canyon, Weber et al. B-37528, !Zander, 1955.
Barbula anserinocapitatus X.-j. Li. ZANDE93.

Didymodon asperifolius (Mitten) Crum, Steere, & Anderson

WEBER73B; ZANDE78A.

Didymodon australasii (Hooker & Greville) Zander

ZANDE78. Annotation by Zander, but status still doubtful.
Trichostomopsis australasii (Hooker & Greville) H. Robinson. HERMA76; ZANDE78. Larimer Co..

Didymodon brachyphyllus (Sullivant) Zander

ZANDE93.
Barbula brachyphylla Sullivant. WEBER73B; HERMA76; ZANDE81.
Didymodon vinealis (Bridel) Zander var. *brachyphyllus* (Sullivant in Whipple) Zander. ZANDE81,93.

Didymodon ferrugineus (Bescherelle) Hill

ZANDER93. San Juan Co.: Deadwood Gulch, 2 mi SSW of Silverton, Hermann 23292, !Zander, 1995.
Barbula fallax (Hedwig) Zander var. *reflexus* (Bridel) Zander. ZANDE93.

Didymodon nevadensis Zander

ZANDE93,95. Bryologist 98:590.1995. Type from Nevada. Montrose Co.: Gypsum hill, Paradox Valley, Weber et al. B-43550, !Zander, 1995. An obligate gypsophile..

***Didymodon reedii* H. Robinson**

HERMA76; ZANDE78A. Err. rep. Specimens are *D. brachyphyllus*, fide Zander, 1995.

Didymodon revolutus (Cardot) R. S. Williams

ZANDE81,93.
Husnotiella revoluta Cardot. HERMA76; ZANDE81,93.

Didymodon rigidulus Hedwig var. gracilis (Schleicher ex Hooker & Greville) Zander

WEBER73B; ZANDE78A,93.
Barbula acuta (Bridel) Bridel. WEBER73B.
Barbula bescherellei Sauerbach in Jaeger. HERMA76; ZANDE81.
Didymodon acutus (Bridel) K. Saito. ZANDE78A,93.

Didymodon subandreaeoides (Kindberg) Zander

ZANDE78A. Summit Co.: Blue Lake, valley of Monte Cristo Creek, 11,700 ft., Weber & Anderson B-34249, !Zander, 1995.
Barbula andreaeoides Kindberg.

Didymodon tophaceus (Bridel) Lisa

HERMA76; ZANDE78A.

Didymodon vinealis (Bridel) Zander

ZANDE81,93.
Barbula vinealis Bridel. WEBER73B.

Eucladium Bruch & Schimper, 1846**Eucladium verticillatum (Bridel) Bruch & Schimper**

WEBER73B; ZANDE77.

Gymnostomum Nees, Hornschuch, & Sturm, 1823**Gymnostomum aeruginosum J. E. Smith**

HERMA76; ZANDE77.
Gymnostomum calcareum Nees, Hornschuch, & Sturm. ZANDE77.

Henediella Paris 1896 ZABDE93**Henediella heimii (Hedwig) Zander**

ZANDE93.
Desmatodon heimii (Hedwig) Mitten. Material so-called from Colorado is incongruous ecologically, and has long-cylindric capsules. Should be investigated.
Pottia heimii (Hedwig) Hampe.

Hymenostylium Bridel, 1827**Hymenostylium recurvirostrum (Hedwig) Dixon**

WEBER73B.

Gymnostomum recurvirostrum Hedwig.

Molendoa Lindberg, 1878

Molendoa sendtneriana (Bruch & Schimper) Limpricht

HERMA76; ZANDE81.

Pterygoneurum Juratzka, 1882

Pterygoneurum ovatum (Hedwig) Dixon

WEBER63; WEBER73B.

Pterygoneurum subsessile (Bridel) Juratzka

WEBER63; WEBER73B.

Stegonia Venturi, 1883

Stegonia latifolia (Schwaegrichen ex Schultes) Venturi ex Brotherus

WEBER63; WEBER73B.

Stegonia latifolia (Schwaegrichen ex Schultes) Venturi ex Brotherus forma pilifera (Bridel) Moenkemeyer. WEBER63.

Syntrichia Bridel 1801 ZANDE93

Syntrichia bartramii (Steere) Zander

ZANDE93.

Tortula bartramii Steere. WEBER73B; HERMA76.

Syntrichia brevipes (Lesquereux) Brotherus

JAMIE86. Montrose Co.: Paradox Valley, Jamieson B-88609..

Barbula brevipes Lesquereux.

Tortula brevipes (Lesquereux) Brotherus. SAYRE38; GROUT28.

Syntrichia calcicola Amann

ZANDE93. Larimer Co.: Hermann 23401 (COLO B-38446)..

Tortula calcicolens W. Kramer. KRAME80. COLO specimens !Kramer.

Syntrichia caninervis Mitten

ZANDE93.

Tortula bistratosa Flowers. WEBER63.

Tortula caninervis (Mitten) Brotherus. KRAME80.

Syntrichia intermedia Bridel

Tortula intermedia (Bridel) Berkeley. WEBER63; WEBER73B. Questionable as to what taxon we have.

Syntrichia norvegica F. Weber

ZANDE93.

Tortula norvegica (F. Weber) Wahlenberg ex Lindberg. WEBER63; WEBER73B.

Syntrichia pagorum (Milde) Amann

ZANDE93.

Tortula pagorum (Milde) De Notaris. HERMA76.

Syntrichia papillosa (W. Wilson in Spruce) Juratzka

ZANDE93.

Tortula papillosa W. Wilson in Spruce. HERMA76.

Syntrichia papillosissima (Coppey) Loeske

Syntrichia ruralis (Hedwig) Weber & Mohr var. hirsuta (Venturi) Podpera. ZANDE93.

Tortula papillosissima (Coppey) Brotherus. KRAME80; ZANDE93.

Tortula ruralis (Hedwig) Gaertner, Meyer, & Scherbius subsp. hirsuta (Venturi) W. Kramer. KRAME80.

Syntrichia ruralis (Hedwig) Weber & Mohr

ZANDE93.

Tortula ruralis (Hedwig) Gaertner, Meyer, & Scherbius. WEBER73B; KRAME80.

Syntrichia sinensis (C. Mueller) Ochyra

ZANDE93. El Paso Co.: Williams Canyon Jewett in 1913 (COLO) !Mischler..

Tortula sinensis (C. Müller) Brotherus.

Syntrichia virescens De Notaris

ZANDE93.

Tortula virescens (De Notaris) De Notaris. Annotations by W. Kramer.

***Tortella* Limpricht, 1888 ECKEL98**

***Tortella alpicola* Dixon**

Ann. Bryol. 3:54. 1929. Type from the Himalaya. Disjunct in western U.S. fide ECKEL98.

***Tortella fragilis* (Hooker ex Drummond) Limpricht**

WEBER73B.

Tortella rigens Albertson

WEBER73B. Our specimens belong to *T. alpicola* fide ECKEL98.

***Tortella tortuosa* (Hedwig) Limpricht**

WEBER73B.

Tortella tortuosa (Hedwig) Limpricht var. *arctica* (Arnell) Brotherus in Fedtchenko

ZANDE93. All Colorado material is simply *T. tortuosa*. Var. *arctica* is in the American Arctic, fide Eckel (in litt.).

Tortella arctica (H. Arnell) Crundwell & Nyholm. CRUND63; WEBER63; WEBER73B.

***Tortula* Hedwig, 1801 ZANDE89**

***Tortula acaulon* (L.ex Withering) Zander**

ZANDE93. See appendix, p. 378.

Phascum cuspidatum Hedwig. WEBER73B.

***Tortula cernua* (Huebener) Lindberg**

ZANDE1.

Desmatodon cernuus (Huebener) Bruch & Schimper. WEBER73B.

***Tortula euryphylla* Zander**

ZANDE93. Nom. nov..

Desmatodon latifolius (Hedwig) Bridel. WEBER73B.

Tortula fragilis Taylor

WEBER63. Misidentification of?.

***Tortula inermis* (Bridel) Montagne**

WEBER63; WEBER73B.

***Tortula laureri* (Schultz) Lindberg**

ZANDE93.

Desmatodon laureri (C. F. Schultz) Bruch & Schimper. WEBER63; WEBER73B.

***Tortula leucostoma* (R. Brown) Hooker & Greville**

ZANDE93.

Desmatodon leucostomus (R. Brown) Berggren. WEBER73; HERMA76.

***Tortula mucronifolia* Schwaegrichen**

WEBER73B.

***Tortula muralis* Hedwig**

OT., !Kramer.

***Tortula obtusifolia* (Schwaegrichen) Mathey**

ZANDE93.

Desmatodon coloradensis Grout. Moss Flora N. Amer. 1:225.1939. Type: Huerfano Co.: Cuchara Camps, 13 Aug. 1926, MacFadden 107 (NY). Type specimen from Colorado.

Desmatodon obtusifolius (Schwaegrichen) Schimper. WEBER73B.

***Tortula plinthobia* (Sullivant & Lesquereux) Brotherus**

ZANDE93.

Desmatodon plinthobius Sullivant & Lesquereux. WEBER73B; HERMA76.

***Tortula protobryoides* Zander**

ZANDE93.

Pottia bryoides (Dickson) Mitten. ZANDE93. Mesa Co.: 7 mi W of Whitewater, Weber et al B-43494.

***Tortula subulata* Hedwig**

WEBER73B.

Tortula systilia (Schimper) Lindberg

ZANDE93.

Desmatodon systilius Schimper. WEBER63; WEBER73B.

Trichostomum Bruch, 1829

Trichostomum crispulum Bruch in F. A. Müller

STONE85. Colorado specimens cited.

Trichostomum sweetii (Bartram) Stark

STARK96.

Trichostomum perligulatum (Flowers ex Crum) Zander. ZANDE93; STARK96. Mesa Co.: East Creek, SW of Whitewater, Weber et al 43496 !Zander.

Weissia perligulata Flowers ex Crum. STONE85; ZANDE93; STARK96.

Weissia sweetii Bartram. STARK96. Bryologist 48:90.1945. Type from Nevada..

Trichostomum tenuirostre (Hooker f. & Taylor) Lindberg

WEBER73B.

Trichostomum cylindricum (Bruch) C. Müller. WEBER63.

Weissia Hedwig, 1801

Weissia condensata (Voit) Lindberg

STONE85. BL, ME.

Hymenostomum tortile (Schwaegrichen) Bruch & Schimper.

Weissia eutyches Zander. ZAND85.

Weissia glauca Bartram. HERMA76.

Weissia controversa Hedwig

WEBER73B; STONE85.

Weissia brandegei Austin. Bull. Torr. Bot. Club 6:46.1875. Type: Colorado, Brandege. Type specimen from Colorado.

Weissia ligulifolia (Bartram) Grout

STONE85. BL, LR.

Rhytidiaceae

Rhytidium (Sullivant) Kindberg, 1882

Rhytidium rugosum (Hedwig) Kindberg

WEBER73B.

Seligeriaceae

Blindia Bruch & Schimper, 1846

Blindia acuta (Hedwig) Bruch & Schimper

WEBER63; WEBER73B.

Seligeria Bruch & Schimper, 1846

Seligeria campylopoda Kindberg ex Macoun & Kindberg

JAMIE86. LP.

Seligeria donniana (Smith) C. Müller

Jamieson, ined..

Seligeria tristichoides Kindberg

Jamieson, ined..

Sphagnaceae

Sphagnum L., 1753

Sphagnum angustifolium (C. Jensen) C. Jensen

BL, SJ, !Andrus.

Sphagnum recurvum P. Beauvois.

Sphagnum balticum (Russow) C. Jensen

San Juan Co.: Chattanooga, 3 mi S of Red Mt. Pass, acidic fen, 27 Aug. 1998, D. Cooper B-104976, det. Andrus..

Sphagnum contortum K. F. Schultz

COOPE91.

Sphagnum cuspidatum Hoffmann

WEBER73B. Specimen is *S. angustifolium*.

Sphagnum fimbriatum W. Wilson ex Hooker f.

HERMA76.

Sphagnum fuscum (Schimper) Klinggraeff

WEBER73B; HERMA76.

Sphagnum girgensohnii Russow

Park Co.: Geneva Creek fens, 9 Sept. 1998, D. Cooper 2243], Det. Andrus.

Sphagnum platyphyllum (Braithwaite) Warnstorf

COLO specimens, !Andrus.

Sphagnum russowii Warnstorf

WEBER73B.

Sphagnum squarrosum Swartz ex Crome

WEBER73B.

Sphagnum teres (Schimper) Ångström ex C. J. Hartman

WEBER73B.

Sphagnum warnstorffii Russow

WEBER73B.

Sphagnum warnstorffianum DuRoi.

Splachnaceae**Splachnum Hedwig, 1801****Splachnum sphaericum Hedwig**

BL: University Camp, B-26137, !Hermann, Boas.

Tayloria Hooker, 1816**Tayloria acuminata Hornschuch**

HF, GN, CC.

Tayloria froelichiana (Hedwig) Mitten ex Lindberg

WEBER73B. !LaFarge.

Tayloria hornschuchii (Greville & Arnott ex Arnott) Brotherus

WEBER73B. !LaFarge.

Tayloria lingulata (Dickson) Lindberg

WEBER73B. !LaFarge.

Tetraplodon Bruch & Schimper, 1844

Erroneous report

Tetraplodon mnioides (Hedwig) Bruch & Schimper

Sayre 666 is *Splachnum sphaericum*!

Voitia Hornschuch, 1818**Voitia nivalis Hornschuch**

WEBER 73B. Recent collection, CC: Summit Lake, Weber.

Tetraphidaceae

Tetraphis Hedwig, 1801

Tetraphis pellucida Hedwig

WEBER73B.

Thuidiaceae

Abietinella C. Müller, 1896

Abietinella abietina (Hedwig) Fleischer

WEBER73B. Families adopted from Crosby & Magill Dictionary of generic names used for mosses (rev. 6).

Helodium (Sullivant) Warnstorf, 1905

Helodium blandowii (F. Weber & Mohr) Warnstorf

WEBER73B.

Myurella Bruch & Schimper, 1853

Myurella julacea (Schwaegrichen) Bruch & Schimper

WEBER73B.

Myurella tenerrima (Bridel) Lindberg

WEBER73B.

Timmiaceae

Timmia Hedwig, 1801

Timmia austriaca Hedwig

WEBER73B; BRASS84.

Timmia megapolitana Hedwig subsp. bavarica (Hessler) Brassard

WEBER73B; BRASS84.

Timmia megapolitana Hedwig var. *bavarica* (Hessler) Bridel.

Timmia norvegica Zetterstedt

WEBER63; WEBER73B; BRASS84.