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Catalogue of Musci and Hepaticae of North America  
north of Mexico. 1885.

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CATALOGUE

OF

MUSCI AND HEPATICÆ

OF

NORTH AMERICA,

NORTH OF MEXICO.

—  
ARRANGED BY  
CLARA E. CUMMINGS.  
—

PRICE 35 CTS.; THREE FOR \$1.

NATICK, MASS.:  
HOWARD & STILES, PRINTERS.  
1885.

MUS

GEORGE ROSE  
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## PREFACE.

This Catalogue of North American Mosses and Hepaticæ has been prepared as a check and exchange list, and a basis for arrangement of herbaria.

It is based upon the "Manual of Mosses of North America," by Leo Lesquereux and Thos. P. James, and the "Descriptive Catalog of the North American Hepaticæ, North of Mexico," by L. M. Underwood. It is thought unnecessary to give the distribution of the species, as that is given in these works.

At the suggestion of Prof. Underwood, the arrangement of Orders and Genera, as given in his Catalog, is reversed, that these may be placed in their proper relation to Mosses.

The following Mosses not given in the Manual will be found in the Addenda :

Hypnum occidentale, Sulliv. and Lesq

— *Botanical Gazette*, vol. 9, p. 195.

Hypnum Barberi, Renault.

" serpens, L. var.

Barberi, Renault.

— *American Naturalist*, vol. xvii., pp. 821-2.

Exchange of Mosses solicited.

CLARA E. CUMMINGS,

Wellesley College,

Wellesley, Mass.

May, 1885.

284  
(16506.93)



# MUSCI.

## Order I. SPHAGNACEÆ.

1. SPHAGNUM, Dill.
  1. acutifolium, Ehrh.  
var. purpureum, Schimp.  
var. fuscum, Schimp.
  2. rubellum, Wils.
  3. strictum, Lindb.  
var. squarrosulum, Russ.
  4. fimbriatum, Wils.
  5. cuspidatum, Ehrh.  
var. Torreyanum, Lesq. and James.  
var. falcatum, Russ.  
var. plumosum, Schimp.  
var. plumulosum, Schimp.  
var. serratum, Lesq. and James.  
var. hypnoides, Schimp.
  6. intermedium, Hoffm.
  7. Lindbergii, Schimp.
  8. squarrosum, Pers.  
var. squarrosulum, Schimp.
  9. teres, Angstroem.
  10. Wulfianum, Girgens.
  11. rigidum, Schimp.  
var. squarrosum, Russ.
  12. Muelleri, Schimp.
  13. molle, Sulliv.  
var. tenerum, Braithw.
  14. Garberi, Lesq. and James.
  15. subsecundum, Nees.  
var. auriculatum, Lindb.  
var. laxum, Lesq. and James.  
var. contortum, Schimp.  
var. obesum, Schimp.
  16. laricinum, Spruce.
  17. Mendocinum, Sulliv. and Lesq.
  18. tenellum, Ehrh.
  19. cymbifolium, Ehrh.
  20. papillosum, Lindb.
  21. Austini, Sulliv.
  22. Portoricense, Hampe.
  23. cyclophyllum, Sulliv. and Lesq.

24. sedoides, Brid.
25. Fitzgeraldi, Renauld.
26. Pylaesii, Brid.
27. macrophyllum, Bernh.  
var. Floridanum, Aust.

## Order II. ANDREÆACEÆ.

1. ANDREÆA, Ehrh.
  28. petrophila, Ehrh.
  29. rupestris, Turn.
  30. crassinervia, Bruch.

## Order III. BRYACEÆ.

### Series I. ACROCARPI.

#### Tribe I. PHASEÆ.

1. MICROMITRIUM, Aust.
  31. megalosporum, Aust.
  32. Austini, Aust.
  33. synoicum, Aust.
2. EPIHEMERUM, Hampe.
  34. serratum, Hampe.  
var. angustifolium, Schimp.
  35. crassinervium, Hampe.
  36. spinulosum, Bruch and Schimp.
  37. papillosum, Aust.
  38. hystrix, Lindb.
  39. cohærens, Muell.
  40. stenophyllum, Schimp.
3. PHYSCOMITRELLA, Schimp.
  41. patens, Schimp.
4. SPHÆRANGIUM, Schimp.
  42. muticum, Schimp.
  43. rufescens, Lesq. and James.
  44. triquetrum, Schimp.
  45. Schimperianum, Lesq. and James.
5. PHASCUM, Linn.,
  46. Carniolicum, Web. and Mohr.
  47. cuspidatum, Schreb.  
var. piliferum, Bruch and Schimp.
  48. bryoides, Dicks.

6. **PLEURIDIUM**, Brid.  
 49. subulatum, Bruch and Schimp.  
     var. stramineum, Lesq.  
 50. Ravenelii, Aust.  
 51. alternifolium, Brid.,  
     var. Lancastriense, Sulliv.  
     and Lesq.  
     var. robustum, Sulliv. and Lesq.  
 52. Sullivantii, Aust  
 53. Bolanderi, Muell.
7. **MICROBRYUM**, Schimp.  
 54. Flörkeanum, Schimp.
8. **BRUCHIA**, Schwaegr.  
 55. palustris, Muell.  
 56. flexuosa, Muell.  
     var. microcarpa, Wils.  
 57. Sullivantii, Aust.  
     var. nigricans, Lesq. and James.  
 58. Bolanderi, Lesq.  
 59. Beyrichiana, Muell.  
 60. brevicollis, Lesq. and James.  
 61. curviseta, Lesq. and James.  
 62. Hallii, Aust.  
 63. Donnellii, Aust.  
 64. Texana, Aust.  
 65. brevipes, Hook.  
 66. brevifolia, Sulliv.  
 67. Ravenelii, Wils.  
     var. mollis, Lesq. and James.  
 68. Hampeana, Muell.
9. **ARCHIDIUM**, Brid.  
 69. Ohioense, Schimp.  
     var. Donnellii, Lesq. and James.  
 70. tenerrimum, Mitten.  
 71. Ravenelii, Aust.  
 72. longifolium, Lesq. and James.  
 73. Hallii, Aust.
- Tribe II. WEISIEÆ.**
10. **ASTOMUM**, Hampe.  
 74. crispum, Hampe.  
 75. Ludovicianum, Sulliv.  
 76. Sullivantii, Schimp.  
 77. nitidulum, Schimp.  
     var. pygmæum, Lesq.
11. **GYMNOSTOMUM**, Hedw.  
 78. calcareum, Nees. and Hornsch.  
     var. brevifolium, Schimp.  
     var. perpusillum, Sulliv.  
 79. ruspestre, Schwaegr.  
     var. stelligerum, Schimp.  
 80. curvirostrum, Hedw.
81. tenue, Schrader.
12. **ANCECTANGIUM**, Schwaegr  
 82. Peckii, Sulliv.
13. **WEISIA**, Hedw.  
 83. viridula, Brid.  
     var. stenocarpa, Muell.  
     var. densifolia, Muell.  
     var. amblyodon, Muell.  
     var. gymnostomoides, Muell.  
 84. longiseta, Lesq. and James.  
 85. Wolfii, Lesq. and James.
14. **DICRANOWEISIA**, Lindb.  
 86. crispula, Lindb.  
 87. cirrhata, Lindb.
15. **OREOWEISIA**, Schimp.  
 88. serrulata, Schimp.
16. **RHABDOWEISIA**, Bruch and Schimp.  
 89. fugax, Bruch and Schimp.  
 90. denticulata, Bruch and Schimp.
17. **CYNODONTIUM**, Schimp.  
 91. Schisti, Schimp.  
 92. gracilescens, Schimp.  
     var. inflexum, Schimp.  
     var. alpestre, Schimp.  
 93. polycarpum, Schimp.  
     var. strumiferum, Schimp.  
 94. virens, Schimp.  
     var. Wahlbergii, Bruch Schimp.  
     var. serratum, Bruch and Schimp.  
     var. compactum, Bruch and Schimp.
18. **DICHODONTIUM**, Schimp.  
 95. pellucidum, Schimp.  
     var. Americanum, Lesq.  
     var. serratum, Schimp.  
 96. Canadense, Lesq. and James.
19. **TREMATODON**, Michx.  
 97. ambiguum, Hornsch.  
 98. longicollis, Michx.
20. **ANGSTREMIÆ**, Bruch and Schimp.  
 99. longipes, Bruch and Schimp.
21. **DICRANELLA**, Schimp.  
 100. crispa, Schimp.  
 101. Grevilleana, Schimp.  
 102. Schreberi, Schimp.  
     var. occidentalis, Aust.  
 103. squarrosa, Schimp.  
 104. cerviculata, Schimp.  
 105. varia, Schimp.  
 106. rufescens, Schimp.  
 107. debilis, Lesq. and James.  
 108. subulata, Schimp.



109. heteromalla, Schimp.  
 110. curvata, Schimp.  
 22. **DICRANUM**, Hedw.  
 111. fulvellum, Smith.  
 112. Starkii, Web. and Mohr.  
 113. falcatum, Hedw.  
 114. Blyttii, Bruch and Schimp.  
 115. strictum, Schleich.  
 116. montanum, Hedw.  
 117. viride, Schimp.  
 118. flagellare, Hedw.  
     var. subfuitans, Aust.  
 119. fulvum, Hook.  
 120. longifolium, Hedw.  
     var. strictius, Aust.  
     var. plumosum, Lesq.  
 121. albicans, Bruch and Schimp.  
 122. elongatum, Schwaegr.  
     var. orthocarpum, Schimp.  
 123. fuscescens, Turn.  
     var. longirostre, Schimp.  
     var. flexicaule, Schimp.  
     var. angustifolium, Schimp.  
 124. Muhlenbeckii, Bruch and Schimp.  
 125. rhabdocarpum, Sulliv.  
 126. fragilifolium, Lindb.  
 127. scoparium, Hedw.  
     var. squarrosus, Lesq. and James.  
     var. paludosus, Bruch and Schimp.  
     var. pallidum, Lesq. and James.  
 128. majus, Turn.  
 129. palustre, La Pyl.  
     var. Brewerianum, Lesq.  
 130. Schraderi, Web. and Mohr.  
 131. spurium, Hedw.  
     var. condensatum, Lesq. and James.  
 132. Drummondi, Muell.  
 133. undulatum, Turn.  
 23. **DICRANODONTIUM**, Bruch Schimp.  
 134. longirostre, Bruch and Schimp.  
 24. **CAMPYLOPUS**, Brid.  
 135. flexuosus, Brid.  
 136. Tallulensis, Sulliv. and Lesq.  
 137. introflexus, Bridel.  
 138. Leanus, Sulliv.  
 139. Hallii, Lesq.  
 140. frigidus, Lesq.  
 141. subleucogaster, Lesq. and James.  
 142. Donnellii, Lesq. and James.

143. Virginicus, Lesq. and James.  
 144. gracilicaulis, Mitt.  
 145. angustiretis, Lesq. and James.

**Sub Tribe I. FISSIDENTEÆ.**

25. **FISSIDENS**, Hedw.  
 146. Closteri, Aust.  
 147. bryoides, Hedw.  
     var. cæspitans, Schimp.  
 148. incurvus, Schwaegr.  
 149. inconstans, Schimp.  
 150. limbatus, Sulliv.  
 151. crassipes, Wils.  
 152. Floridanus, Lesq. and James.  
 153. ventricosus, Lesq.  
 154. hyalinus, Wils. and Hook.  
 155. exiguus, Sulliv.  
 156. minutulus, Sulliv.  
 157. Hallii, Aust.  
 158. Ravenelii, Aust.  
 159. Donnellii, Aust.  
 160. Garberi, Lesq. and James.  
 161. Texanus, Lesq.  
 162. obtusifolius, Wils.  
 163. osmundoides, Hedw.  
 164. decipiens, De Not.  
 165. taxifolius, Hedw.  
 166. adiantoides, Hedw.  
     var. immarginatus, Lindb.  
 167. subbasilaris, Hedw.  
 168. polyodioides, Hedw.  
 169. grandifrons, Brid.  
 26. **CONOMITRIUM**, Mont.  
 170. julianum, Mont.  
 171. Hallianum, Sulliv. and Lesq.

**Sub Tribe II. LEUCOBRYEÆ.**

27. **LEUCOBRYUM**, Hampe.  
 172. vulgare, Hampe.  
 173. minus, Sulliv.  
 174. sediforme, Muell.  
 28. **OCTOBLEPHARUM**, Hedw.  
 175. albidum, Hedw.

**Sub Tribe III. CERATODONTEÆ.**

29. **CERATODON**, Brid.  
 176. purpureus, Brid.  
     var. xanthopus, Sulliv.  
     var. aristatus, Aust.  
 177. minor, Aust.  
 30. **TRICHODON**, Schimp.  
 178. cylindricus, Schimp.  
 31. **DISTICHUM**, Bruch and Schimp.  
 179. capillaceum, Bruch and Schimp.

180. *inclinatum*, Bruch and Schimp.  
 32. **EUSTICHIA**, Brid.  
 181. *Norvegica*, Brid.
- Sub Tribe IV. SELIGERIEÆ.**
33. **ANODUS**, Bruch and Schimp.  
 182. *Donianus*, Bruch and Schimp.  
 34. **SELIGERIA**, Bruch and Schimp.  
 183. *pusilla*, Bruch and Schimp.  
 184. *calcarea*, Bruch and Schimp.  
 185. *recurvata*, Bruch and Schimp.  
     *var. arcuata*, Lesq. and James.  
 186. *tristicha*, Bruch and Schimp.  
 35. **BLINDIA**, Bruch and Schimp.  
 187. *acuta*, Bruch and Schimp.  
 36. **BRACHYODUS**, Fuernr.  
 188. *trichodes*, Fuernr.  
 37. **CAMPYLOSTELEUM**, Bruch and Schimp.  
 189. *saxicola*, Bruch and Schimp.
- Tribe III. POTTIEÆ.**
38. **PHAROMITRIUM**, Schimp.  
 190. *subsessile*, Schimp.  
 39. **POTTIA**, Ehrh.  
 191. *cavifolia*, Ehrh.  
 192. *minutula*, Fuernr.  
 193. *truncata*, Fuernr.  
 194. *Wilsoni*, Bruch and Schimp.  
 195. *Heimii*, Fuernr.  
 196. *riparia*, Aust.  
 197. *Barbula*, Muell.  
 198. *Starkeana*, Muell.  
 199. *latifolia*, Muell.  
     *var. pilifera*, Muell.  
 40. **DIDYMODON**, Hedw.  
 200. *rubellus*, Bruch and Schimp.  
 201. *luridus*, Hornsch.  
     *var. cuspidatus*, Schimp.  
 202. *cylindricus*, Bruch and Schimp.  
 41. **LEPTOTRICHUM**, Hampe.  
 203. *tortile*, Muell.  
     *var. pusillum*, Schimp.  
 204. *vaginans*, Lesq. and James.  
 205. *homomallum*, Hampe.  
 206. *flexicaule*, Hampe.  
     *var. densum*, Schimp.  
 207. *pallidum*, Hampe.  
 208. *Schimperi*, Lesq.  
 209. *glaucescens*, Hampe.  
 42. **TRICHOSTOMUM**, Smith.  
 210. *tophaceum*, Brid.  
 211. *pyriforme*, Lesq. and James.  
 212. *crispulum*, Bruch.  
 213. *flavo-virens*, Bruch.  
     *var. crassinerve*, Lesq. and James.  
 214. *flexipes*, Bruch and Schimp.  
 215. *anomalum*, Schimp.  
 43. **DESMATODON**, Brid.  
 216. *latifolius*, Brid.  
     *var. glacialis*, Schimp.  
 217. *Systilius*, Bruch and Schimp.  
 218. *arenaceus*, Sulliv. and Lesq.  
 219. *Garberi*, Lesq. and James.  
 220. *Porteri*, James.  
 221. *plinthobius*, Sulliv. and Lesq.  
 222. *Neo-Mexicanus*, Sulliv. and Lesq.  
 223. *nervosus*, Bruch and Schimp.  
     *var. edentulus*, Bruch and Schimp.  
 224. *obtusifolius*, Schimp.  
 225. *Guepini*, Bruch and Schimp.  
 226. *cernuus*, Bruch and Schimp.  
 227. *obliquus*, Bruch and Schimp.  
 228. *Laureri*, Bruch and Schimp.  
 44. **BARBULA**, Hedw.  
 229. *brevirostris*, Bruch and Schimp.  
 230. *rigida*, Schultz.  
     *var. mucronulata*, Schimp.  
     *var. pilifera*, Schimp.  
 231. *ambigua*, Bruch and Schimp.  
 232. *membranifolia*, Schultz.  
 233. *chloronotos*, Bruch.  
 234. *cuneifolia*, Brid.  
 235. *Vahliana*, Schultz.  
 236. *marginata*, Bruch and Schimp.  
 237. *Bolanderi*, Lesq.  
 238. *amplexa*, Lesq.  
 239. *breviipes*, Lesq.  
 240. *muralis*, Timm.  
 241. *unguiculata*, Hedw.  
 242. *Jooriana*, Muell.  
 243. *fallax*, Hedw.  
 244. *subfallax*, Muell.  
 245. *recurvifolia*, Schimp.  
 246. *Cruegeri*, Sonder.  
 247. *cancellata*, Muell.  
 248. *brachyphylla*, Sulliv.  
 249. *purpurea*, Muell.  
 250. *rigidula*, Schimp.  
 251. *vinealis*, Braun.  
 252. *flexifolia*, Hampe.  
 253. *virescens*, Lesq.  
 254. *cylindrica*, Schimp.  
 255. *elata*, Dur. and Mont.  
 256. *rubiginosa*, Mitt.

257. semitorta, Sulliv.  
 258. artocarpa, Lesq.  
 259. gracilis, Schwaegr.  
 260. convoluta, Hedw.  
 261. Closteri, Aust.  
 262. agraria, Hedw.  
 263. Raui, Aust.  
 264. Donnellii, Lesq. and James.  
 265. cæspitosa, Schwaegr.  
 266. tortuosa, Web. and Mohr.  
 267. fragilis, Bruch and Schimp.  
 268. squarrosa, Brid.  
 269. subulata, Beauv.  
     var. subinermis, Schimp.  
     var. mutica, Schimp.  
     var. angustata, Schimp.  
 270. inermis, Muell.  
 271. mucronifolia, Bruch and Schimp.  
 272. lævipila, Bruch and Schimp.  
 273. latifolia, Bruch and Schimp.  
 274. ruralis, Hedw.  
 275. papillosa, Muell.  
 276. Muelleri, Bruch and Schimp.

**Tribe IV. GRIMMIEÆ.**

45. CINCLIDOTUS, Beauv.  
 277. fontinaloides, Beauv.  
 46. GRIMMIA, Ehrh.

**Sub Genus I. SCHISTIDIUM.**

278. conferta, Funck.  
     var. obtusifolia, Schimp.  
     var. compacta, Lesq. and James.  
 279. ambigua, Sulliv.  
 280. apocarpa, Hedw.  
     var. gracilis, Nees. and Hornsch.  
     var. rivularis, Nees. and Hornsch.  
 281. platyphylla, Mitt.  
 282. Agassizii, Lesq. and James.  
 283. maritima, Turm.

**Sub Genus II. SCOULERIA.**

284. Scouleri, Muell.

**Sub Genus III. GASTEROGRIMMIA.**

285. anodon, Bruch and Schimp.  
 286. plagipodia, Hedw.  
     var. pilifera, Lesq. and James.

**Sub Genus IV. GRIMMIA, proper.**

287. pulvinata, Smith.  
     var. obtusa, Muell.

288. contorta, Bruch and Schimp.  
 289. hamulosa, Lesq.  
 290. torquata, Grev.  
 291. Mühlenbeckii, Schimp.  
 292. Watsoni, Lesq. and James.  
 293. trichophylla, Grev.  
     var. meridionalis, Schimp.  
 294. Olneyi, Sulliv.  
 295. Californica, Sulliv.

**Sub Genus V. GUEMBELIA.**

296. Donniana, Smith.  
     var. curviseta, Lesq. and James.  
 297. Coloradensis, Aust.  
 298. ovata, Web. and Mohr.  
     var. affinis, Bruch and Schimp.  
 299. Pennsylvanica, Schwaegr.  
 300. calyptrata, Hook.  
 301. leucophæa, Grev.  
 302. commutata, Hueben.  
 303. montana, Bruch and Schimp.  
     var. brachyodon, Lesq. and James.  
     var. truncata, Lesq. and James.  
 304. alpestris, Schleich.  
 305. unicolor, Grev.  
 47. RACOMITRIUM, Brid.

**Sub Genus I. CAMPYLODRYPTODON.**

306. patens, Hueben.

**Sub Genus II. DRYPTODON.**

307. aciculare, Brid.  
 308. depressum, Lesq.  
 309. Nevii, Watson.

**Sub Genus III. RACOMITRIUM, proper.**

310. Sudeticum, Bruch and Schimp.  
 311. heterostichum, Brid.  
 312. fasciculare, Brid.  
 313. varium, Lesq. and James.  
 314. microcarpum, Brid.  
 315. lanuginosum, Brid.  
 316. canescens, Brid.  
     var. ericoides, Bruch and Schimp.  
     var. lutescens, Lesq. and James.  
 48. HEDWIGIA, Ehrh.  
 317. ciliata, Ehrh.  
     var. leucophæa, Schimp.

- var. *secunda*, Schimp.  
var. *viridis*, Schimp.  
var. *striata*, Schimp.
49. **BRAUNIA**, Bruch and Schimp.
- Sub Genus I. PSEUDOBRAUNIA.**
318. *Californica*, Lesq.  
var. *pilifera*, Lesq. and James.
- Tribe V. ORTHOTRICHEÆ.**
50. **COSCINODON**, Sprengel.  
319. *pulvinatus*, Sprengel.  
320. *Wrightii*, Sulliv.  
321. *Raui*, Lesq. and James.
51. **PTYCHOMITRIUM**, Bruch and Schimp.
- Sub Genus I. PTYCHOMITRIUM, proper.**
322. *Gardneri*, Lesq.
- Sub Genus II. NOTARISIA.**
323. *incurvum*, Sulliv.  
324. *Drummondii*, Sulliv.  
325. *pygmæum*, Lesq. and James.
52. **GLYPHOMITRIUM**, Brid.  
326. *Canadense*, Mitt.
53. **AMPHORIDIUM**, Schimp.  
327. *Lapponicum*, Schimp.  
328. *Mougeotii*, Schimp.  
329. *Californicum*, Lesq. and James.  
330. *Sullivantii*, Lesq. and James.  
331. *cæspitosum*, Lesq. and James.
54. **DRUMMONDIA**, Hook.  
332. *clavellata*, Hook.
55. **ULOTA**, Mohr.  
333. *Drummondii*, Brid.  
334. *Ludwigii*, Brid.  
335. *curvifolia*, Brid.  
336. *Bruchii*, Hornsch.  
337. *crispa*, Brid.  
var. *minor*, Lesq. and James.  
338. *Americana*, Mitt.  
339. *crispula*, Brid.  
340. *phylantha*, Brid.  
341. *Hutchinsiae*, Schimp.  
342. *Barclayi*, Mitt.
56. **ORTHOTRICHEM**, Hedw.  
343. *anomalum*, Hedw.  
344. *lævigatum*, Zett.  
345. *cupulatum*, Hoffm.  
var. *minus*, Sulliv.  
var. *Peckii*, Sulliv.
- var. *Porteri*, Sulliv.  
var. *parvulum*, Sulliv.
346. *Sturmi*, Hoppe and Hornsch.
347. *Texanum*, Sulliv.  
var. *globosum*, Lesq.
348. *Douglasii*, Duby.  
349. *rupestre*, Schleich.  
350. *Bolanderi*, Sulliv.  
351. *Watsoni*, James.  
352. *affine*, Schrad.  
353. *alpestre*, Hornsch.  
var. *majus*, Lesq. and James.
354. *speciosum*, Nees.  
var. *poly carpum*, Lesq. James.  
var. *Rau*, Lesq. and James.
355. *Hallii*, Sulliv. and Lesq.  
356. *sordidum*, Sulliv. and Lesq.  
357. *Kingianum*, Lesq.  
358. *Ohioense*, Sulliv. and Lesq.  
var. *citrinum*, Lesq. and James.
359. *fallax*, Schimp.  
var. *truncatulum*, Aust.
360. *brachytrichum*, Schimp.  
361. *strangulatum*, Beauv.  
362. *tenellum*, Bruch.  
363. *consimile*, Mitt.  
364. *cylindrocarpum*, Lesq.  
365. *psilocarpum*, James.  
366. *exiguum*, Sulliv.  
367. *leiocarpum*, Bruch and Schimp.  
368. *pallens*, Bruch.  
369. *pulchellum*, Brunton.  
var. *longipes*, Sulliv.
370. *diaphanum*, Schrad.  
371. *canum*, Mitten.  
372. *rivulare*, Turn.  
373. *obtusifolium*, Schrad.  
374. *Jamesianum*, Sulliv.  
375. *Lyellii*, Hook. and Tayl.  
var. *papillosum*, Lesq. and James.
57. **MACROMITRIUM**, Brid.  
376. *Sullivantii*, Muell.  
377. *Fitzgeraldi*, Lesq. and James.  
378. *rhabdocarpum*, Mitt.  
379. *mucronifolium*, Hook. and Grev.
58. **SCHLOTHEIMIA**, Brid.  
380. *Sullivantii*, Muell.
59. **ENCALYPTA**, Schreb.

381. *commutata*, Nees. and Hornsch.  
 382. *vulgaris*, Hedw.  
     var. *obtusa*, Schimp.  
     var. *pilifera*, Schimp.  
     var. *elongata*, Schimp.  
 383. *rhabdocarpa*, Schwægr.  
 384. *ciliata*, Hedw.  
 385. *Macounii*, Aust.  
 386. *procera*, Bruch.  
 387. *Selwyni*, Aust.  
 388. *streptocarpa*, Hedw.  
 60. **CALYMPERES**, Swartz.  
 389. *Richardi*, Muell.  
     var. *Donnellii*, Lesq. and James.  
 390. *disciforme*, Muell.  
 391. (?) *crispum*, Aust.  
 61. **SYRHOPODON**, Schwaegr.  
 392. *Floridanus*, Sulliv.  
 393. *Texanus*, Sulliv.
- Tribe VII. TETRAPHIDEÆ.**
62. **TETRAPHIS**, Hedw.  
 394. *pellucida*, Hedw.  
 395. *geniculata*, Girgens.  
 63. **TETRODONTIUM**, Schwaegr.  
 396. *repandum*, Schwaegr.
- Tribe VII. DISCELIEÆ.**
64. **DISCELIUM**, Brid.  
 397. *nudum*, Brid.
- Tribe VIII. SCHISTOSTEGEÆ.**
65. **SCHISTOSTEGA**, Mohr.  
 398. *osmundacea*, Web. and Mohr.
- Tribe IX. SPLACHNEAE.**
66. **DISSODON**, Grev. and Arn.  
 399. *Hornschuchii*, Grev. and Arn.  
 400. *Frœlichianus*, Grev. and Arn.  
 401. *splachnoides*, Grev. and Arn.  
 67. **TAYLORIA**, Hook.  
 402. *serrata*, Bruch and Schimp.  
     var. *flagellaris*, Bruch and Schimp.  
 403. *splachnoides*, Hook.  
 68. **TETRAPLONDON**, Bruch and Schimp.  
 404. *angustatus*, Bruch and Schimp.  
 405. *mnoides*, Bruch and Schimp.  
 406. *australis*, Sulliv. and Lesq.  
 407. *urceolatus*, Bruch and Schimp.

69. **SPLACHNUM**, Linn.  
 408. *Wormskioldii*, Hornem.  
 409. *sphaericum*, Linn., fil.  
 410. *vasculosum*, Linn.  
 411. *ampullaceum*, Linn.  
 412. *rubrum*, Linn.  
 413. *luteum*, Linn.
- Tribe X. PHYSCOMITRIEÆ.**
70. **PYRAMIDULA**, Brid.  
 414. *tetragona*, Brid.  
 71. **APHANORHEGMA**, Sulliv.  
 415. *serratum*, Sulliv.  
 72. **PHYSCOMITRIUM**, Brid.  
 416. *immersum*, Sulliv.  
 417. *pygmæum*, James.  
 418. *pyriforme*, Brid.  
 419. *Hookeri*, Hampe.  
 420. *acuminatum*, Bruch and Schimp.  
 421. *turbinatum*, Muell.  
 73. **ENTOSTHODON**, Schwaegr.  
 422. *Drummondii*, Sulliv.  
 423. *Bolanderi*, Lesq.  
 424. *Templetoni*, Schwaegr.  
 74. **FUNARIA**, Schreb.  
 425. *Americana*, Lindb.  
 426. *Mediterranea*, Lindb.  
 427. *calcareæ*, Wahl.  
 428. *serrata*, Brid.  
 429. *Californica*, Sulliv. and Lesq.  
 430. *convoluta*, Hampe.  
 431. *flavicans*, Michx.  
 432. *hygrometrica*, Sibth.  
     var. *calvescens*, Bruch and Schimp.  
     var. *patula*, Bruch and Schimp.  
 433. *microstoma*, Bruch and Schimp.
- Tribe XI. BARTRAMIEÆ.**
75. **BARTRAMIA**, Hedw.  
 434. *Menziesii*, Turn.  
 435. *subulata*, Bruch and Schimp.  
 436. *stricta*, Brid.  
 437. *ithyphylla*, Brid.  
 438. *Cederiana*, Swartz.  
 439. *pomiformis*, Hedw.  
     var. *crispa*, Schimp.  
 440. *Halleriana*, Hedw.  
 441. *radicalis*, Beauv.  
 76. **CONOSTOMUM**, Swartz.  
 442. *boreale*, Swartz.  
 77. **PHILONOTIS**, Brid.  
 443. *Muhlenbergii*, Brid.  
     var. *tenella*, Brid.

444. *Macounii*, Lesq. and James.  
 445. *fontana*, Brid.  
     var. *alpina*, Brid.  
     var. *falcata*, Brid.  
 446. *calcarea*, Schimp.  
 447. *Mohriana*, Lesq. and James.

**Tribe XII. MEESIEÆ.**

78. **CATOSCOPIUM**, Brid.  
 448. *nigrutum*, Brid.  
 79. **AMBLYODON**, Beauv.  
 449. *dealbatus*, Beauv.  
 80. **MEESIA**, Hedw.  
 450. *uliginosa*, Hedw.  
     var. *alpina*, Bruch and  
     Schimp.  
     var. *minor*, Bruch and  
     Schimp.  
 451. *longiseta*, Hedw.  
 452. *Albertinii*, Bruch and  
     Schimp.  
 453. *tristicha*, Bruch and Schimp.  
 81. **PALUDELLA**, Ehrh.  
 454. *squarrosa*, Brid.

**Tribe XIII. BRYEÆ.**

82. **MIELICHHOFFERIA**, Hornsch.  
 455. *nitida*, Nees. and Hornsch.  
     var. *macrocarpa*, Muell.  
 83. **LEPTOBRYUM**, Schimp.  
 456. *pyriforme*, Schimp.  
 84. **WEBERA**, Hedw.

**Sub Genus I. POHLIA.**

457. *acuminata*, Schimp.  
 458. *polymorpha*, Schimp.  
 459. *elongata*, Schwaegr.  
     var. *humilis*, Schimp.  
 460. *longicolla*, Hedw.

**Sub Genus II. WEBERA,**  
*proper.*

461. *nutans*, Hedw.  
     var. *cæspitosa*, Schimp.  
     var. *bicolor*, Schimp.  
     var. *longiseta*, Schimp.  
 462. *cucullata*, Schimp.  
 463. *cruda*, Schimp.  
 464. *sphagnicola*, Schimp.  
 465. *annotina*, Schwaegr.  
 466. *Drummondii*, Lesq. and  
     James.  
 467. *nudicaulis*, Lesq. and James.  
 468. *Bolanderi*, Lesq. and James.  
 469. *commutata*, Schimp.  
 470. *Lescuriana*, Lesq. and James.  
 471. *carnea*, Schimp.

472. *pulchella*, Schimp.  
 473. *Tozeri*, Schimp.  
 474. *albicans*, Schimp.  
     var. *nigricans*, Lesq. and  
     James.  
 475. *Bigelovii*, Lesq. and James.  
 85. **BRYUM**, Dill.

**Sub Genus I. CLADODIUM.**

476. *arcticum*, Bruch and Schimp.  
 477. *purpurascens*, Bruch and  
     Schimp.  
 478. *Brownii*, Bruch and Schimp.  
 479. *pendulum*, Schimp.  
 480. *inclinatum*, Bruch and  
     Schimp.  
 481. *Warneum*, Bland.  
 482. *Biddlecomiæ*, Aust.  
 483. *lacustre*, Brid.  
 484. *flexuosum*, Aust.  
 485. *calophyllum*, R. Brown.  
 486. *uliginosum*, Bruch and  
     Schimp.

**Sub Genus II. BRYUM, proper.**

487. *intermedium*, Brid.  
 488. *cirrhatum*, Hoppe and  
     Hornsch.  
 489. *bimum*, Schreb.  
 490. *lonchocaulon*, Muell.  
 491. *torquescens*, Bruch and  
     Schimp.  
 492. *provinciale*, Philib.  
 493. *Oreganum*, Sulliv.  
 494. *pallescens*, Schleich.  
 495. *subrotundum*, Brid.  
 496. *erythrocarpum*, Schwaegr.  
 497. *atropurpureum*, Wahl.  
 498. *coronatum*, Schwaegr.  
 499. *versicolor*, Al. Braun.  
 500. *alpinum*, Linn.  
 501. *Muhlenbeckii*, Bruch and  
     Schimp.  
 502. *miniatum*, Lesq.  
 503. *Atwateriæ*, Muell.  
 504. *argenteum*, Linn.  
     var. *majus*, Schwaegr.  
     var. *lanatum*, Bruch and  
     Schimp.  
 505. *cæspiticium*, Linn.  
 506. *capillare*, Linn.  
 507. *occidentale*, Sulliv.  
 508. *obconicum*, Hornsch.  
 509. *Californicum*, Sulliv.  
 510. *cyclophyllum*, Bruch and  
     Schimp.  
 511. *pallens*, Swartz.

512. *Duvalii*, Voit.  
 513. *pseudotriquetrum*, Schwaegr.  
 514. *turbinatum*, Schwaegr.  
 515. *Schleicheri*, Schwaegr.  
     var. *angustatum*, Schimp.  
     var. *latifolium*, Schimp.

**Sub Genus III. RHODOBRYUM.**

516. *roseum*, Schreb.  
 517. *concinatum*, Spruce.  
 86. **ZIERIA**, Schimp.  
 518. *julacea*, Schimp.  
 519. *demissa*, Schimp.  
 87. **MNIUM**, Linn.  
 520. *cuspidatum*, Hedw.  
 521. *Nevii*, Muell.  
 522. *venustum*, Mitt.  
 523. *medium*, Bruch and Schimp.  
 524. *Drummondii*, Bruch and Schimp.  
 525. *rostratum*, Schwaegr.  
 526. *affine*, Bland.  
     var. *elatum*, Bruch and Schimp.  
     var. *rugicum*, Bruch and Schimp.  
 527. *insigne*, Mitt.  
 528. *hornum*, Linn.  
 529. *serratum*, Laich.  
 530. *orthorrhynchum*, Bruch and Schimp.  
 531. *lycopodioides*, Schwaegr.  
 532. *umbratile*, Mitt.  
 533. *spinusum*, Schwaegr.  
 534. *spinulosum*, Bruch and Schimp.  
 535. *stellare*, Reichard.  
 536. *cinclidioides*, Hueben.  
 537. *punctatum*, Hedw.  
 538. *subglobosum*, Bruch and Schimp.  
 539. *hymenophylloides*, Hueben.  
 540. *Menziesii*, Muell.  
 88. **CINCLIDIUM**, Swartz.  
 541. *stygium*, Swartz.  
 542. *subrotundum*, Lindb.  
 89. **RHIZOGONIUM**, Brid.  
 543. *spiniforme*, Bruch.  
 90. **LEPTOTHECA**, Schwaegr.  
 544. *Wrightii*, Sulliv.

**Sub Tribe I. AULACOMNIEÆ.**

91. **AULACOMNIUM**, Schwaegr.  
 545. *androgynum*, Schwaegr.  
 546. *palustre*, Schwaegr.  
     var. *imbricatum*, Bruch and Schimp.

var. *fasciculare*, Bruch and Schimp.

- var. *polycephalum*, Bruch and Schimp.  
 var. *alpestre*, Schimp.  
 547. *turgidum*, Schwaegr.  
 548. *papillosum*, Lesq. and James.  
 549. *heterostichum*, Bruch and Schimp.

**Sub Tribe II. TIMMIEÆ.**

92. **TIMMIA**, Hedw.  
 550. *megapolitana*, Hedw.  
 551. *Austriaca*, Hedw.

**Tribe XIV. POLYTRICHEÆ.**

93. **ATRICHUM**, Beauv.  
 552. *undulatum*, Beauv.  
 553. *angustatum*, Bruch and Schimp.  
 554. *Selwyni*, Aust.  
 555. *xanthopelma*, Lesq. and James.  
 556. *Lescurii*, James.  
 557. *crispum*, James.  
 558. *parallellum*, Mitt.  
 94. **OLIGOTRICHUM**, D. C.  
 559. *aligerum*, Mitt.  
 560. *Lyallii*, Lindb.  
 95. **PSILOPILUM**, Brid.  
 561. *arcticum*, Brid.  
 96. **POGONATUM**, Beauv.  
 562. *brevicaule*, Beauv.  
 563. *brachyphyllum*, Beauv.  
 564. *capillare*, Brid.  
 565. *dentatum*, Brid.  
 566. *contortum*, Lesq.  
 567. *atrovirens*, Mitt.  
 568. *urnigerum*, Beauv.  
 569. *alpinum*, Roehl.  
     var. *arcticum*, Brid.  
     var. *septentrionale*, Brid.  
     var. *brevifolium*, Brid.  
     var. *simplex*, Schimp.  
 97. **POLYTRICHUM**, Linn.  
 570. *gracile*, Menz.  
 571. *formosum*, Hedw.  
     var. *pallidisetum*, Bruch and Schimp.  
 572. *piliferum*, Schreb.  
     var. *Hoppei*, Rabenh.  
 573. *juniperinum*, Willd.  
     var. *alpinum*, Schimp.  
 574. *strictum*, Banks.  
 575. *commune*, Linn.  
     var. *perigoniale*, Bruch and Schimp.

- Tribe XV. BUXBAUMIÆ.**
98. **DIPHYSCIUM**, Mohr.  
576. foliosum, Mohr.
99. **BUXBAUMIA**, Hall.  
577. aphylla, Linn.
- Series II. CLADOCARPI.**
- Tribe XVI. FONTINALIÆ.**
100. **FONTINALIS**, Dill.  
578. antipyretica, Linn.  
var. gigantea, Sulliv.  
579. Californica, Sulliv.  
580. Neo-Mexicana, Sulliv. and  
Lesq.  
581. Dalecarlica, Bruch and  
Schimp.  
582. biformis, Sulliv.  
583. Novæ—Angliæ, Sulliv.  
584. Lescurii, Sulliv.  
var. gracilescens, Sulliv.  
585. Sullivantii, Lindb.  
586. filiformis, Sulliv. and Lesq.  
587. disticha, Hook. and Wils.  
588. hypnoides, Hartm.
101. **DICHELYMA**, Myrin.  
589. falcatum, Myrin.  
590. uncinatum, Mitt.  
591. capillaceum, Bruch and  
Schimp.  
592. pallescens, Bruch and  
Schimp.  
593. subulatum, Myrin.  
594. cylindricarpum, Aust.  
595. Swartzii, Lindb.
- Series III. PLEUROCARPI.**
- Tribe XVII. NECKERIÆ.**
102. **CRYPILÆA**, Mohr.  
596. glomerata, Bruch and  
Schimp.  
597. pendula, Lesq. and James.  
598. nervosa, Bruch and Schimp.  
599. Ravenelii, Aust.
103. **LEPTODON**, Mohr.  
600. trichomitrium, Mohr.  
var. immersus, Sulliv.  
var. irriguus, Renauld.  
601. Ohioensis, Sulliv.  
602. nitidus, Lindb.
104. **ALSIA**, Sulliv.  
603. Californica, Sulliv.  
604. abietina, Sulliv.  
605. longipes, Sulliv. and Lesq.
105. **NECKERA**, Hedw.  
606. disticha, Hedw.  
607. undulata, Hedw.
608. Menziesii, Drumm.  
609. pennata, Hedw.  
610. oligocarpa, Bruch and  
Schimp.  
611. Douglasii, Hook.  
612. complanata, Hueben.  
613. pumila, Hedw.  
614. (Pilotrichum?) Floridaana,  
Aust.  
615. (Orthostichella) Ludovicæ,  
Muell.  
616. cymbifolia, Muell.
106. **HOMALIA**, Brid.  
617. trichomanoides, Bruch and  
Schimp.  
618. obtusata, Mitt.  
619. Jamesii, Schimp.  
620. gracilis, James.
107. **METEORIUM**, Brid.  
621. pendulum, Sulliv.  
622. nigrescens, Mitt.
- Tribe XVIII. LEUCODONTIÆ.**
108. **LEUCODON**, Schwaegr.  
623. sciuroides, Schwaegr.  
624. julaceus, Sulliv.  
625. brachypus, Brid.
109. **PTERIGYNANDRUM**, Hedw.  
626. filiforme, Hedw.  
var. cristatum, Lesq. and  
James.  
var. minus, Lesq. and  
James.
110. **PTEROGONIUM**, Swartz.  
627. gracile, Swartz.  
var. duplicato-serratum,  
Lesq.  
628. brachypterum, Mitten.
111. **ANTITRICHIA**, Brid.  
629. curtispindula, Brid.  
var. gigantea, Sulliv. and  
Lesq.  
630. Californica, Sulliv.
- Tribe XIX. HOOKERIÆ.**
112. **HOOKERIA**, Tayl.  
631. varians, Sulliv.  
632. cruceana, Duby.  
633. (?) Sullivantii, Muell.
113. **PTERYGOPHYLLUM**, Brid.  
634. lucens, Brid.
- Tribe XX. FABRONIÆ.**
114. **FABRONIA**, Raddi.  
635. pusilla, Raddi.  
var. ciliata, Lesq. and  
James.



636. *gymnostoma*, Sulliv. and Lesq.  
 637. *octoblepharis*, Schwaegr.  
 638. *Wrightii*, Sulliv.  
 639. *Ravenellii*, Sulliv.  
 640. *Donnellii*, Aust.  
 115. *ANACAMPTODON*, Brid.  
 641. *splachnoides*, Brid.  
 116. *HABRODON*, Schimp.  
 642. *Notarisii*, Schimp.  
 117. *CLASMATODON*, Hook. and Wils.  
 643. *parvulus*, Sulliv.  
       *var. rupestris*, Sulliv. and Lesq.

**Tribe XXI. LESKEÆ.**

118. *THELIA*, Sulliv.  
 644. *hirtella*, Sulliv.  
 645. *asprella*, Sulliv.  
 646. *robusta*, Duby.  
 647. *Lescurii*, Sulliv.  
 119. *MYURELLA*, Bruch and Schimp.  
 648. *julacea*, Bruch and Schimp.  
 649. *apiculata*, Bruch and Schimp.  
 650. *Careyana*, Sulliv.  
 120. *LESKEA*, Hedw.  
 651. *polycarpa*, Ehrh.  
       *var. paludosa*, Wils.  
 652. *obscura*, Hedw.  
 653. *nervosa*, Myrin.  
 654. *denticulata*, Sulliv.  
 655. *tristis*, Cesat.  
 656. *Austini*, Sulliv.  
 657. *pulvinata*, Wahl.  
 658. *Wollei*, Aust.  
 121. *ANOMODON*, Hook and Tayl.  
 659. *rostratus*, Schimp.  
 660. *attenuatus*, Hueben.  
 661. *obtusifolius*, Bruch and Schimp.  
 662. *apiculatus*, Bruch and Schimp.  
 663. *viticulosus*, Hook. and Tayl.  
 664. *Toccoæ*, Sulliv. and Lesq.  
 665. *Californicus*, Lesq.

**Tribe XXII. ORTHOTHECIEÆ.**

122. *PLATYGYRIUM*, Bruch and Schimp.  
 666. *repens*, Bruch and Schimp.  
 123. *PYLAISIA*, Bruch and Schimp.  
 667. *polyantha*, Bruch and Schimp.  
 668. *heteromalla*, Bruch and Schimp.  
 669. *subdenticulata*, Schimp.

- var. obscura*, Lesq. and James.  
 670. *intricata*, Bruch and Schimp.  
 671. *velutina*, Bruch and Schimp.  
 124. *HOMALOTHECIUM*, Bruch and Schimp.  
 672. *subcapillatum*, Sulliv.  
 673. *pseudosericeum*, Lesq. and James.  
 125. *CYLINDROTHERCIUM*, Bruch Schimp.  
 674. *cladorrhizans*, Schimp.  
 675. *seductrix*, Sulliv.  
 676. *brevisetum*, Bruch and Schimp.  
 677. *Floridanum*, Duby.  
 678. *compressum*, Bruch and Schimp.  
 679. *Drummondii*, Bruch and Schimp.  
 680. *Sullivantii*, Sulliv.  
 681. *concinnum*, Schimp.  
 126. *CLIMACIUM*, Web. and Mohr.  
 682. *dendroides*, Web. and Mohr.  
 683. *Americanum*, Brid.  
 684. *Ruthenicum*, Lindb.  
 127. *ORTHOTHECIUM*, Bruch and Schimp.  
 685. *rufescens*, Bruch and Schimp.  
 686. *rubellum*, Lesq. and James.  
 687. *chryseum*, Bruch and Schimp.

**Tribe XXIII. HYPNEÆ.**

128. *HYPNUM*, Dill.

**Sub Genus I. PSEUDOLESKEA.**

688. *atrovirens*, Dicks.  
 689. *catenulatum*, Brid.  
 690. *radicosum*, Mitt.  
       *var. gracilis*, Lesq. and James.

**Sub Genus II. HETEROCLADIUM.**

691. *dimorphum*, Brid.  
 692. *procurrens*, Lesq. and James.

**Sub Genus III. THUIDIUM.**

693. *minitulum*, Hedw.  
 694. *pygmæum*, Sulliv. and Lesq.  
 695. *scitum*, Beauv.  
       *var. æstivale*, Lesq. and James.  
 696. *erectum*, Lesq. and James.  
 697. *gracile*, Bruch and Schimp.  
       *var. Lancastriense*, Sulliv. and Lesq.

- var. *Ravenellii*, Sulliv. and Lesq.
698. *calyptratum*, Sulliv.  
 699. *tamariscinum*, Hedw.  
 700. *recognitum*, Hedw.  
 701. *delicatulum*, Linn.  
 702. *abietinum*, Linn.  
 703. *Blandovii*, Web. and Mohr.  
 704. *remotifolium*, Grev.  
 705. *Alleni*, Lesq. and James.
- Sub Genus IV. CLAOPODIUM.**
706. *leuconeurum*, Sulliv. and Lesq.  
 707. *Whippleanum*, Sulliv.  
 708. *ramulosum*, Hampe.  
 709. *crispifolium*, Hook.  
 710. *laxifolium*, Schwaegr.
- Sub Genus V. ELODIUM.**
711. *paludosum*, Sulliv.
- Sub Genus VI. TRIPTEROCADIUM.**
712. *leucocladulum*, Muell.  
 713. *compressulum*, Muell.
- Sub Genus VII. CAMPTOTHECIUM.**
714. *lutescens*, Huds.  
 715. *æneum*, Mitt.  
 716. *Nuttallii*, Wils.  
 717. *Nevadense*, Lesq.  
 718. *pinnatifidum*, Sulliv. and Lesq.  
 719. *arenarium*, Lesq.  
 720. *nitens*, Schreb.  
 721. *megaptilum*, Sulliv.
- Sub Genus VIII. BRACHYTHECIUM.**
722. *lætum*, Brid.  
 var. *dentatum*, Lesq. and James.  
 723. *acuminatum*, Beauv.  
 var. *rupincolum*, Sulliv. and Lesq.  
 var. *setosum*, Sulliv. and Lesq.  
 724. *salebrosum*, Hoffm.  
 var. *longisetum*, Lesq. and James.  
 var. *palustre*, Lesq. and James.  
 var. *cylindricum*, Lesq. and James.  
 var. *Texanum*, Lesq. and James.
725. *acutum*, Mitt.  
 726. *albicans*, Neck.  
 727. *biventrosus*, Muell.  
 728. *Thedenii*, Hartm.  
 729. *Donnellii*, Aust.  
 730. *collinum*, Schleich.  
 731. *Utahense*, Lesq. and James.  
 732. *velutinum*, Linn.  
 733. *Hillebrandi*, Lesq.  
 734. *Fendleri*, Sulliv. and Lesq.  
 735. *Bolanderi*, Lesq.  
 736. *Starkii*, Brid.  
 737. *reflexum*, Starke.  
 738. *œdipodium*, Mitt.  
 739. *rutabulum*, Linn.  
 var. *longisetum*, Brid.  
 var. *flavescens*, Brid.  
 var. *plumosum*, Lesq. and James.  
 var. *densum*, Lesq. and James.  
 var. *robustum*, Lesq. and James.
740. *asperrimum*, Mitt.  
 741. *campestre*, Bruch.  
 742. *Novæ—Angliæ*, Sulliv. and Lesq.  
 743. *rivulare*, Bruch.  
 744. *populeum*, Hedw.  
 var. *majus*, Lesq. and James.  
 var. *longisetum*, Lesq. and James.  
 var. *subfalcatum*, Lesq. and James.  
 745. *plumosum*, Swartz.  
 var. *homomallum*, Lesq. and James.  
 746. *oxycladon*, Brid.
- Sub Genus IX. SCLEROPODIUM.**
747. *cæspitosum*, Wils.  
 748. *Californicum*, Lesq.  
 749. *illecebrum*, Schwaegr.
- Sub Genus X. ISOTHECIUM.**
750. *mysuroides*, Linn.  
 751. *stoloniferum*, Hook.  
 752. *spiculiferum*, Mitt.  
 753. *acuticuspis*, Mitt.  
 754. *Brewerianum*, Lesq.  
 var. *lutescens*, Lesq. and James.  
 755. *aggregatum*, Mitt.  
 756. *aplocladum*, Mitt.  
 757. *lentum*, Mitt.

**Sub Genus XI. EURHYNCHIUM.**

758. strigosum, Hoffm.  
 759. diversifolium, Schimp.  
 760. Boscii, Schwaegr.  
 761. colpophyllum, Sulliv.  
 762. Vaucheri, Schimp.  
 763. piliferum, Schreb.  
 764. prælongum, Linn.  
 765. Sullivantii, Spruce.  
 766. hians, Hedw.  
 767. Stokesii, Turn.  
 768. Oreganum, Sulliv.

**Sub Genus XII. RAPHIDOSTEGIUM.**

769. demissum, Wils.  
 var. Carolinianum, Lesq. and James.  
 var. Marylandicum, Lesq. and James.  
 770. Novæ—Cesareæ, Aust.  
 771. recurvans, Schwaegr.  
 772. cylindrocarpum, Muell.  
 773. microcarpum, Muell.  
 var. anisocarpon, Sulliv.  
 774. Jamesii, Lesq. and James.  
 775. laxepatulum, Lesq. and James.

**Sub Genus XIII. RHYNCHOSTEGIUM.**

776. geophilum, Aust.  
 777. deplanatum, Schimp.  
 778. serrulatum, Hedw.  
 779. rusciforme, Weis.  
 var. Atlanticum, Lesq. and James.  
 var. inundatum, Lesq. and James.  
 780. curvisetum, Brid.  
 781. Caloosicense, Aust.  
 782. Royæ, Aust.  
 783. Brandegei, Aust.

**Sub Genus XIV. THAMNIUM.**

784. Alleghaniense, Muell.  
 785. neckeroides, Hook.  
 786. Bigelovii, Sulliv.

**Sub Genus XV. PLAGIOTHECIUM.**

787. latebricola, Lindb.  
 788. Passaicense, Lesq. and James.  
 789. trichophorum, Spruce.  
 790. pulchellum, Dicks.  
 var. nitidulum, Lesq. and James.

791. geminum, Lesq. and James.  
 792. micans, Swartz.  
 var. fulvum, Lesq. and James.  
 793. turfaceum, Lindb.  
 794. elegans, Hook.  
 var. terrestre, Lesq. and James.  
 795. denticulatum, Linn.  
 var. tenellum, Lesq. and James.  
 var. lætum, Lesq. and James.  
 var. laxum, Lesq. and James.  
 var. densum, Lesq. and James.  
 var. obtusifolium, Turn.  
 796. Muellerianum, Hook, fil.  
 797. Sullivantiæ, Schimp.  
 798. sylvaticum, Huds.  
 var. orthocladium, Lesq. and James.  
 799. undulatum, Linn.  
 800. Muhlenbeckii, Spruce.  
 801. Fitzgeraldi, Renauld.  
 802. pseudo-Silesiacum, Lesq. and James.  
 803. subfalcatum, Lesq. and James.

**Sub Genus XVI. AMBLYSTEGIUM.**

804. minutissimum, Sulliv. and Lesq.  
 805. Sprucei, Bruch.  
 806. subtile, Hoffm.  
 807. confervoides, Brid.  
 808. serpens, Linn.  
 809. radicale, Beauv.  
 810. orthocladon, Beauv.  
 811. irriguum, Hook. and Wils.  
 var. spinifolium, Lesq. and James.  
 812. fluviatile, Swartz.  
 813. adnatum, Hedw.  
 814. compactum, Muell.  
 815. Lescurii, Sulliv.  
 816. riparium, Linn.  
 var. abbreviatum, Lesq. and James.  
 var. flaccidum, Lesq. and James.  
 var. fluitans, Lesq. and James.  
 817. vacillans, Lesq. and James.

**Sub Genus XVII. CAMPYLIIUM.**

818. hispidulum, Brid.  
 819. chrysophyllum, Brid.  
     var. tenellum, Lesq. and  
     James.  
 820. stellatum, Schreb.  
     var. protensum, Bruch and  
     Schimp.  
 821. polygamum, Wils.

**Sub Genus XVIII. HARPIDIUM.**

822. aduncum, Hedw.  
     var. intermedium, Lesq.  
     and James.  
     var. Kneiffii, Schimp.  
     var. polycarpum, Bruch  
     and Schimp.  
     var. gracilescens, Bruch  
     and Schimp.  
     var. tenue, Bruch and  
     Schimp.  
     var. hamatum, Lesq. and  
     James.  
 823. Sendtneri, Schimp.  
     var. Wilsoni, Schimp.  
 824. uncinatum, Hedw.  
     var. abbreviatum, Bruch  
     and Schimp.  
     var. plumosum, Schimp.  
     var. plumulosum, Bruch  
     and Schimp.  
     var. gracilescens, Bruch  
     and Schimp.  
     var. subjulaceum, Bruch  
     and Schimp.  
     var. fragile, Lesq. and  
     James.  
 825. fluitans, Linn.  
     var. submersum, Schimp.  
     var. falcatum, Bruch and  
     Schimp.  
     var. Jamesii, Lesq. and  
     James.  
 826. exannulatum, Guembel.  
 827. revolvens, Swartz.  
     var. intermedium, Lesq.  
     and James.  
 828. vernicosum, Lindb.  
 829. lycopodioides, Schwaegr.  
 830. Watsoni, Lesq. and James.

**Sub Genus XIX. CRATONEURUM.**

831. filicinum, Livon.  
     var. trichodes, Linn.  
     var. gracilescens, Brid.  
     var. elatum, Schimp.  
     var. Floridanum, Renauld.

832. commutatum, Hedw.  
     var. falcatum, Muell.

**Sub Genus XX. RHYTIDIUM.**

833. rugosum, Linn.  
 834. robustum, Hook.

**Sub Genus XXI. CTENIUM.**

835. crista—castrensis, Linn.

**Sub Genus XXII. CTENIDIUM.**

836. molluscum, Hedw.  
     var. condensatum, Schimp.  
     var. erectum, Schimp.

**Sub Genus XXIII. HYPNUM,**  
proper.

837. reptile, Michx.  
     var. protuberans, Lesq. and  
     James.  
 838. fertile, Sendt.  
 839. hamulosum, Bruch and  
     Schimp.  
 840. depressulum, Muell.  
 841. circinale, Hook.  
 842. Sequoieti, Muell.  
 843. callichroum, Brid.  
 844. imponens, Hedw.  
 845. subimponens, Lesq.  
 846. plicatile, Lesq. and James.  
 847. cupressiforme, Linn.  
     var. tectorum, Brid.  
     var. brevisetum, Bruch  
     and Schimp.  
     var. uncinatum, Bruch  
     and Schimp.  
     var. filiforme, Brid.  
     var. mamillatum, Brid;  
     ericetorum, Bruch and  
     Schimp.  
     var. elatum, Bruch and  
     Schimp.  
     var. longirostre, Bruch and  
     Schimp.  
 848. curvifolium, Hedw.  
 849. complexum, Lesq. and  
     James.  
 850. pratense, Koch.  
 851. Bambergeri, Schimp.  
 852. Haldanianum, Grev.  
 853. nemorosum, Koch.

**Sub Genus XXIV. LIMNOBIUM.**

854. palustre, Huds.  
     var. hamulosum, Lesq. and  
     James.  
 855. molle, Dicks.

856. alpestre, Swartz.  
 857. arcticum, Sommerf.  
 858. obtusifolium, Drumm.  
 859. montanum, Wils.  
 860. eugyrium, Schimp.  
 861. ochraceum, Turn.

**Sub Genus XXV. CALLIERGON.**

862. cordifolium, Hedw.  
 863. giganteum, Schimp.  
 864. sarmentosum, Wahl.  
 865. cuspidatum, Linn.  
 866. Richardsoni, Lesq. and  
 James.  
 867. Schreberi, Willd.  
 868. Alaskanum, Lesq. and  
 James.  
 869. stramineum, Dicks.  
 870. trifarium, Web. and Mohr.  
 871. turgescens, Schimp.  
 872. badium, Hartm.

**Sub Genus XXVI. SCORPIDIUM.**

873. scorpioides, Linn.

**Sub Genus XXVII. PLEUROZIUM.**

874. splendens, Hedw.

var. compactum, Lesq. and  
 James.

875. umbratum, Ehrh.  
 876. Oakesii, Sulliv.  
 877. brevirostre, Ehrh.

**Sub Genus XXVIII. HYLOCOMIUM.**

878. squarrosum, Linn.  
 879. triquetrum, Linn.  
 880. Flemmingii, Lesq. and  
 James.  
 881. loreum, Linn.

**Species of Uncertain Affinity.**

882. Wrightii, Sulliv.  
 883. planum, Brid.  
 884. Coloradense, Aust.

**Addenda.**

885. Hypnum occidentale, Sulliv.  
 and Lesq.  
 886. Hypnum, Barberi, Renauld.  
 887. Hypnum, serpens, L. var.  
 Barberi, Renauld.

**Omission.**

888. Leptodon, Floridanus,  
 Lindb.

# HEPATICÆ.

- Order I. JUNGERMANIACÆ, DUMORT.**
1. **CESIA**, B. Gr.
    1. concinnata, B. Gr.
  2. **NARDIA**, B. Gr.
    2. Bolanderi, Aust.
    3. adusta, Aust.
    4. emarginata, B. Gr. (?)  
var. aquatica, (Nees.)
    5. sphacelata, B. Gr. (?)
    6. Lescurii, (Aust.)
  3. **PLAGIOCHILA**, Dumort.
    7. Ludoviciana, Sulliv.
    8. undata, Sulliv.
    9. porelloides, Lindenb.
    10. interrupta, Dumort.
    11. spinulosa, Nees and Mont.
    12. asplenoides, Nees and Mont.
  4. **SCAPANIA**, Dumort.
    13. subalpina, Nees.
    14. glaucocephala, Aust.
    15. albicans, Mitt. var.  
taxifolia, Underwood.
    16. compacta, Dumort. var.  
irrigua, Underwood.
    17. Oakesii, Aust.
    18. nemorosa, Nees.
    19. Bolanderi, Aust.
    20. undulata, Nees and Mont.  
var. purpurea, Nees.
    21. exsecta, Aust.
    22. uliginosa, Nees.
    23. breviflora, Tayl.
    24. umbrosa, Nees.
  5. **JUNGERMANIA**, L.
    25. julacea, L.
    26. Schraderi, Mart.
    27. Mulleri, Nees  
var. Danensis, Gottsche.
    28. Hornschuchiana, Nees.
    29. Gillmani, Aust.
    30. Wattiana, Aust.
    31. barbata, Schreb.  
var. attenuata, Mart.
    32. setiformis, Ehrh.
    33. fossombronioides, Aust.
  34. crenulata, Smith.
  35. crenuliformis, Aust.
  36. hyalina, Lyell.
  37. biformis, Aust.
  38. sphærocarpa, Hook.
  39. cordifolia, Hook.
  40. pumila, With.
  41. alpestris, Schleich.
  42. ventricosa, Dicks.
  43. Wallrothiana, Nees.
  44. Helleriana, Nees.
  45. minuta, Crantz.
  46. polita, Nees.
  47. inflata, Huds.
  48. Sullivantiæ, Aust.
  49. excisa, Dicks.  
var. crispa, Hook.
  50. incisa, Schrad.
  51. Michanxii, Web.
  52. Dicksoni, Hook.
  53. rubra, Gottsche.
  54. Danicola, Gottsche.
  55. Bolanderi, Gottsche.
  6. **COLEOCHILA**, Dumort.
    56. Taylori, Dumort.
  7. **CEPHALOZIA**, Dumort.
    57. bicuspidata, Dumort.  
var. conferta, Aust.
    58. multiflora, Lindb.
    59. divaricata, Dumort.
    60. pleniceps, (Aust.)
    61. catenulata, Lindb.
    62. curvifolia, Dumort.
    63. Macouni, Aust.
    64. Francisci, Dumort var.  
fruitans, Aust.
    65. Sullivanti, Aust.
    66. albescens, Dumort.
    67. nematodes, Gottsche.
  8. **HARPANTHUS**, Nees.
    68. scutatus, Spruce.
  9. **ODONTOSCHISMA**, Dumort.
    69. sphagni, Dumort.
    70. Macouni, Aust.
    71. denudata, Dumort.
  10. **LIOCHLÆNA**, Nees.

72. lanceolata, Nees.  
 11. PLEURANTHE, Tayl.  
 73. olivacea, Tayl.  
 12. LOPHOCOLEA, Nees.  
 74. bidentata, Dumort.  
 75. minor, Nees.  
 76. Macouni, Aust.  
 77. heterophylla, Nees.  
 78. crocata, Nees.  
 79. Hallii, Aust.  
 13. CHILOSCYPHUS, Corda.  
 80. ascendens, Hook and Wils.  
 81. pallescens, Dumort.  
 82. polyanthos, Corda.  
     var. rivularis, Nees.  
 83. Drummondii, Tayl.  
 14. GEOCALYX, Nees.  
 84. graveolens, Nees.  
 15. CALYPOGEIA, Raddi.  
 85. trichomanis, Corda.  
     var. rivularis, Aust.  
     var. tenuis, Aust.  
 86. Sullivanti, Aust.  
 16. LEPIDOZIA, Nees.  
 87. reptans, Dumort.  
 88. setacea, Mitt.  
 89. Californica, Aust.  
 17. BAZZANIA, B. Gr.  
 90. trilobata, B. Gr.  
 91. deflexa, B. Gr.  
 18. TRICHOOLEA, Dumort.  
 92. tomentella, Dumort.  
 93. Biddlecomiae, Aust.  
 19. SENDTNERA, Endl.  
 94. juniperina, Nees.  
 20. BLEPHAROZIA, Dumort.  
 95. ciliaris, Dumort.  
 21. BLEPHAROSTOMA, Dumort.  
 96. trichophylla, Dumont.  
 22. RADULA, Nees.  
 97. tenax, Lindb.  
 98. australis, Aust.  
 99. Caloosiensis, Aust.  
 100. complanata, Dumort.  
 101. Hallii, Aust.  
 102. Xalapensis, Mont.  
 103. Sullivanti, Aust.  
 104. spicata, Aust.  
 105. obconica, Sulliv.  
 23. MADOTHECA, Dumort.  
 106. rivularis, Nees.  
 107. thuja, Dumort.  
 108. Sullivanti, Aust.  
 109. involuta, Hampe.  
 110. platyphylla, Dumort.  
 111. navicularis, Nees.  
 112. porella, Nees.  
 113. Wataugensis, Sulliv.  
 114. Bolanderi, Aust.  
 24. PHRAGMICOMA, Dumort.  
 115. clypeata, Sulliv.  
 116. xanthocarpa, Lehm. and Lindenb.  
 25. LEJEUNIA, Libert.  
 117. calyculata, Tayl.  
 118. cyclostipa, Tayl.  
 119. polyphylla, Tayl.  
 120. auriculata, Hook and Wils.  
 121. testudinea, Tayl.  
 122. longiflora, Tayl.  
 123. Mohrii, Aust.  
 124. serpyllifolia, Libert. var. Americana, Lindb.  
 125. Austini, Lind.  
 126. cucullata, Nees.  
 127. Caroliniana, Aust.  
 128. læte-fusca, Aust.  
 129. Ravenelii.  
 130. minutissima, Dumort.  
 131. echinata, Tayl.  
 132. Jooriana, Aust.  
 26. FRULLANIA, Raddi.  
 133. Eboracensis, Gottsche.  
 134. saxicola, Aust.  
 135. Oakesiana, Aust.  
 136. Sullivantii, Aust.  
 137. Pennsylvanica, Stephani.  
 138. Hallii, Aust.  
 139. Bolanderi, Aust.  
 140. squarrosa, Nees.  
 141. plana, Sulliv.  
 142. Wrightii, Aust.  
 143. æolotis, Nees.  
 144. Virginica, Gottsche.  
 145. Hutchinsiae, Nees. var.  
 146. Nisquallensis, Sulliv.  
 147. tamarisci, Nees.  
 148. Grayana, Mont.  
     var. Californica, Aust.  
 149. fragiligifolia, Tayl.  
 150. Donnellii, Aust.  
 151. Kunzei, Lehm. and Lindenb.  
 152. brunnea, Spreng.  
 27. FOSSOMBRONIA, Raddi.  
 153. pusilla, Nees.  
 154. angulosa, Raddi.  
 155. Cubana, Aust.  
 156. cristula, Aust.  
 157. longiseta, Aust.  
 158. Macouni, Aust.  
 28. METZGERIA, Raddi.  
 159. pubescens, Raddi.  
 160. myriopoda, Lindb.  
 161. hamata, Lindb.  
 162. conjugata, Lindb.

29. *STEEZIA*, Lehm.  
 163. *Lyellii*, Lehm.  
 30. *BLASIA*, Mich.  
 164. *pusilla*, L.  
 31. *PELLIA*, Raddi.  
 165. *epiphylla*, Nees.  
 166. *calycina*, Nees.  
 32. *ANEURA*, Dumort.  
 167. *multifida*, Dumort.  
     *var. major*, Nees.  
 168. *palmata*, Nees.  
 169. *sessilis*, Spreng.  
 170. *pinguis*, Dumort.  
 171. *pinnatifida*, Nees.

Order II. ANTHOCEROTA-  
 CEÆ, LINDB.

1. *NOTOTHYLAS*, Sulliv.  
 172. *orbicularis*, Sulliv.  
 173. *melanospora*, Sulliv.  
 2. *ANTHOCEROS*, L.  
 174. *laevis*, L.  
     *var. major*, Aust.  
 175. *Donnellii*, Aust.  
 176. *Mohrii*, Aust.  
 177. *cæspiticius*, De Not.  
 178. *Hallii*, Aust.  
 179. *Oreganus*, Aust.  
 180. *sulcatus*, Aust.  
 181. *punctatus*, L.  
 182. *fusiformis*, Aust.  
 183. *stomatifer*, Aust.  
 184. *Ravenelii*, Aust.  
 185. *Olneyi*, Aust.

Order III. MARCHANTI-  
 ACEÆ, CORDA.

1. *TARGIONIA*, Mich.  
 186. *hypophylla*, L.  
 2. *LUNULARIA*, Mich.  
 187. *cruciata*, Dumort.  
 3. *AITONIA*, Forst.  
 188. *Wrightii*, (Sulliv.)  
 189. *erythrosperma*, (Sulliv.)  
 4. *FIMBRIARIA*, Nees.  
 190. *elegans*, Spreng.  
 191. *fragrans*, Nees.  
 192. *Bolanderi*, Aust.  
 193. *Californica*, Hampe.  
 194. *violacea*, Aust.  
 195. *tenella*, Nees.  
 196. *pilosa*, Tayl.

5. *CONOCEPHALUS*, Neck.  
 197. *conicus*, Dumort.  
 6. *DUMORTIERA*, Nees.  
 198. *hirsuta*, Nees.  
 7. *ASTERELLA*, Beauv.  
 199. *hemisphærica*, Beauv.  
 8. *CRYPTOMITRIUM*, Aust.  
 200. *tenerum*, Aust.  
 9. *DUVALIA*, Nees.  
 201. *rupestris*, Nees.  
 10. *GRIMALDIA*, Raddi.  
 202. *barbifrons*, Bisch.  
 203. *Californica*, Gottsche.  
 11. *SAUTERIA*, Nees.  
 204. *limbata*, Aust.  
 12. *PREISSIA*, Nees.  
 205. *hemisphærica*, Cogn.  
 13. *MARCHANTIA*, L.  
 206. *polymorpha*, L.  
 207. *disjuncta*, Sulliv.

Order IV. RICCIACÆ, ENDL.

1. *SPHÆROCARPUS*, Mich.  
 208. *Micheli*, Bell.  
     *var. Californicus*, Aust.  
 209. *Texanus*, Aust.  
 210. *Donnellii*, Aust.  
 2. *THALLOCARPUS*, Lindb.  
 211. *Curtisii*, Aust.  
 3. *RICCIA*, Mich.  
 212. *Frostii*, Aust.  
 213. *Watsoni*, Aust.  
 214. *glauca*, L.  
 215. *albida*, Sulliv.  
 216. *Beyrichiana*, Hampe.  
 217. *bifurca*, Hoffm.  
 218. *Sorocarpa*, Bisch.  
 219. *lamellosa*, Raddi.  
 220. *nigrella*, D. C.  
 221. *arvensis*, Aust.  
     *var. hirta*, Aust.  
 222. *Lescuriana*, Aust.  
 223. *Californica*, Aust.  
 224. *ciliata*, Hoffm.  
 225. *intumescens*, Bisch.  
 226. *Donnellii*, Aust.  
 227. *crystallina*, L.  
 228. *lutescens*, Schwein.  
 229. *tenuis*, Aust.  
 230. *fluitans*, L.  
     *var. Sullivanti*, Aust.  
 231. *natans*, L.



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