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THE BRYOPHYTES OF ILLINOIS

AN ANNOTATED AND
INDEXED BIBLIOGRAPHY
AND CHECKLIST

Bill N. McKnight

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Cover — Bryophyte, *Polytrichum commune*, pictured is approximately five times the actual size. The photo was taken from a slide by the author, Bill N. McKnight. The cover design is by Lloyd Le Mere.

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Bill N. McKnight

The first report of bryological activity in Illinois was von Wied's collections of *Cryphaea inundata* from the Fox and Wabash rivers, White County, in 1832 (Nees von Esenbeck [1834]). Short (1845) noted the lack of bryophytes in the Illinois prairies. The next published reference to Illinois bryophytes was by Sullivant (1856) who also cited von Wied's 1832 collections of *Cryphaea inundata*. Subsequently, in 1859 Brendel listed 27 species of mosses occurring around Peoria, and in the same volume Vasey cited 44 mosses and 1 liverwort from McHenry County. There have been at least 391 other publications relating to Illinois bryophytes since these pioneering works, yet the state bryoflora remains poorly catalogued and studied relative to the vascular plants. The availability of a comprehensive bibliography and checklist should help remedy this disparity. Prior to this compilation, the most complete bibliographies dealing with Illinois bryophytes were included in the historical sketch by Stotler (1979) and the moss checklist constructed by McCleary and Redfearn (1979).

This is an index of the 396 articles dealing with the Illinois bryophytes (hornworts, liverworts, mosses, and sphagna). Each publication is ordered alphabetically by the author's last name and annotated to include pertinent information, especially the number and kinds of taxa treated. Cross-reference indices are provided for authors, publication dates, the counties and regions of Illinois, taxonomic groups, and other categories. Checklists of species and synonyms are also included.

The criteria for including a publication in this bibliography are:

- (1) the article must contain information on the bryoflora of Illinois (extant or fossil);
- (2) abstracts are included only if they cite the occurrence of a taxon not given elsewhere in a full article;
- (3) publications showing only shaded range maps

are included even if no specimens were examined or cited; and

- (4) theses and dissertations are cited even if they are published separately in their entirety (42 M.S. theses and 22 Ph.D. dissertations are listed).

Omitted from the bibliography are:

- (1) publications lacking specific reference to Illinois (i.e., common in eastern North America);
- (2) personal communications; and
- (3) unpublished reports, lists, and collections.

The articles need not include specimens cited, specimens examined or voucher data, although any publication lacking this information, regardless of discipline, is of limited value. And, as this is intended to be a reference to the bryophytes reported in the literature from Illinois and not of Illinois bryologists (Stotler 1979), a biographical work is included only if it contains significant information about at least one species of the state bryoflora.

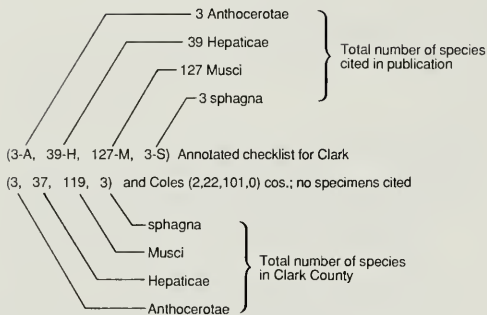
The publications are arranged alphabetically, numbered consecutively, and annotated to indicate content. Each annotation contains two sections. The first section includes data on the kind and number of taxa (see Example and Legend). The bracketed integers refer to the number of taxa listed in the publication. The sequencing of the taxonomic groups in the annotations is consistent throughout (Anthocerotae, Hepaticae, Musci, *Sphagnum*), even though each group is not always treated. The bracketed and parenthesized numbers in each annotation refer to the number of taxa listed in the publication.

The second part of the annotation contains a brief description of the content of the publication. Scientific names are listed only if there are ten or fewer or if they are buried in the text of a long or obscure publication. The scientific names are also given for some questionable reports, as indicated [?], and rare taxa. The fact that scientific names are included does not imply that I have studied the specimens or that they have been correctly identified. The number of taxa cited and the names listed are based on the names given in the article which may not represent current nomenclature. This section of the annotation also includes the county or region from which the specimen was obtained or where observed. When more than one county is given, an effort has been made to present the number of taxa in each group from the respective county (see Example). When counties are not listed (e.g., "Peoria area," "southern

This paper is published by authority of the State of Illinois. Bill N. McKnight, formerly an Assistant Research Biologist in the Section of Botany and Plant Pathology at the Illinois Natural History Survey, is currently Curator of Biological Sciences at the Indiana State Museum, Indianapolis, Indiana.

Two or more outside referees recommend each manuscript submitted for publication in the Biological Notes series before it is accepted.

ANNOTATION EXAMPLE



Illinois," "our area," "Illinois"), the citation has been, when possible, ascribed to a region within the state. Accordingly, I have divided the state into five regions (Fig. 1) based on geographic location, geologic history, land use practices, vegetational patterns, and convenience. It was impossible to follow Schwegman's (1973) natural divisions scheme in delimiting regions given the absence of specific location information in many publications. Finally, the acronym of the herbarium housing the vouchers is often included (see Legend).

The following indices are provided at the end of this publication to further enhance its usefulness.

1. **AUTHOR INDEX.** An alphabetical listing of all 250 authors with the numbers corresponding to all publications by that author.
2. **CHRONOLOGICAL INDEX.** An annual chronological listing from 1834 to 1986 followed by the publications corresponding to each year.
3. **COUNTY INDEX.** An alphabetical list of the 102 Illinois counties and the publications pertaining to each.
4. **REGION INDEX.** A list containing publications dealing with each of the five regions (Fig. 1) for those works not already listed under COUNTY INDEX.
5. **SUBJECT INDICES.** A list of publications dealing with each taxonomic group and selected topics (anatomy/developmental morphology, animal/bryophyte association, culturing, cytology, ecology, fossil, physiology, reproductive biology, revegetation/ succession).

An annotated checklist of bryophytes reported from Illinois is presented at the end of this publication;

both extant and fossil reports are included in this list. A total of 512 kinds of bryophytes (3 hornworts, 118 liverworts, 366 mosses, and 25 sphagna) have been reported. Following each taxon are the numbers corresponding to the publications in which it is reported. The nomenclature follows Crum and Anderson (1981) and Crum (1983) for the mosses and sphagna (with a couple of exceptions noted in the preface to the index), and Stotler and Crandall-Stotler (1977) for the hornworts and liverworts. A list of synonyms for the taxa reported in the literature is also included. Two-thirds of the names listed in the synonym index are not included in the most recent checklists for liverworts (Stotler and Crandall-Stotler 1977) or mosses (Crum, Steere, and Anderson 1973).

While bryophytes are almost totally devoid of economic importance they are nevertheless very interesting organisms that provide a challenging array of potential research projects, as well as aesthetic enjoyment to the critical observer. It should be obvious from looking at the following indices that there is still much to be learned about the bryophytes of Illinois. This publication will be useful in assessing the amount and type of bryological activity, determining distributional records, and generating interest in the Illinois bryoflora. Because of the scope of this bibliography, some citations may have been omitted. You are invited to bring such oversights to my attention.

LEGEND

HERBARIUM ACRONYMS CITED

- (according to Holgren, Keuken, and Schofield 1981)
- ABSH = American Bryological and Lichenological Society Herbarium, Carbondale, IL
CANM = Canadian National Museum, Ottawa
DUKE = Duke University, Durham, NC
EIU = Eastern Illinois University, Charleston
F = Field Museum of Natural History, Chicago
ILL = University of Illinois, Urbana
ILLS = Illinois Natural History Survey, Champaign
ISM = Illinois State Museum, Springfield
MICH = University of Michigan, Ann Arbor
MWI = Western Illinois University, Macomb
NY = New York Botanical Garden, Bronx, NY
SIU = Southern Illinois University, Carbondale
SMS = Southwestern Missouri State University, Springfield
UBC = University of British Columbia, Vancouver, Canada
US = United States National Herbarium, Washington, DC
WARK = A.L. Kibbe Life Science Station, Warsaw, IL
WIU = Western Illinois University, Macomb

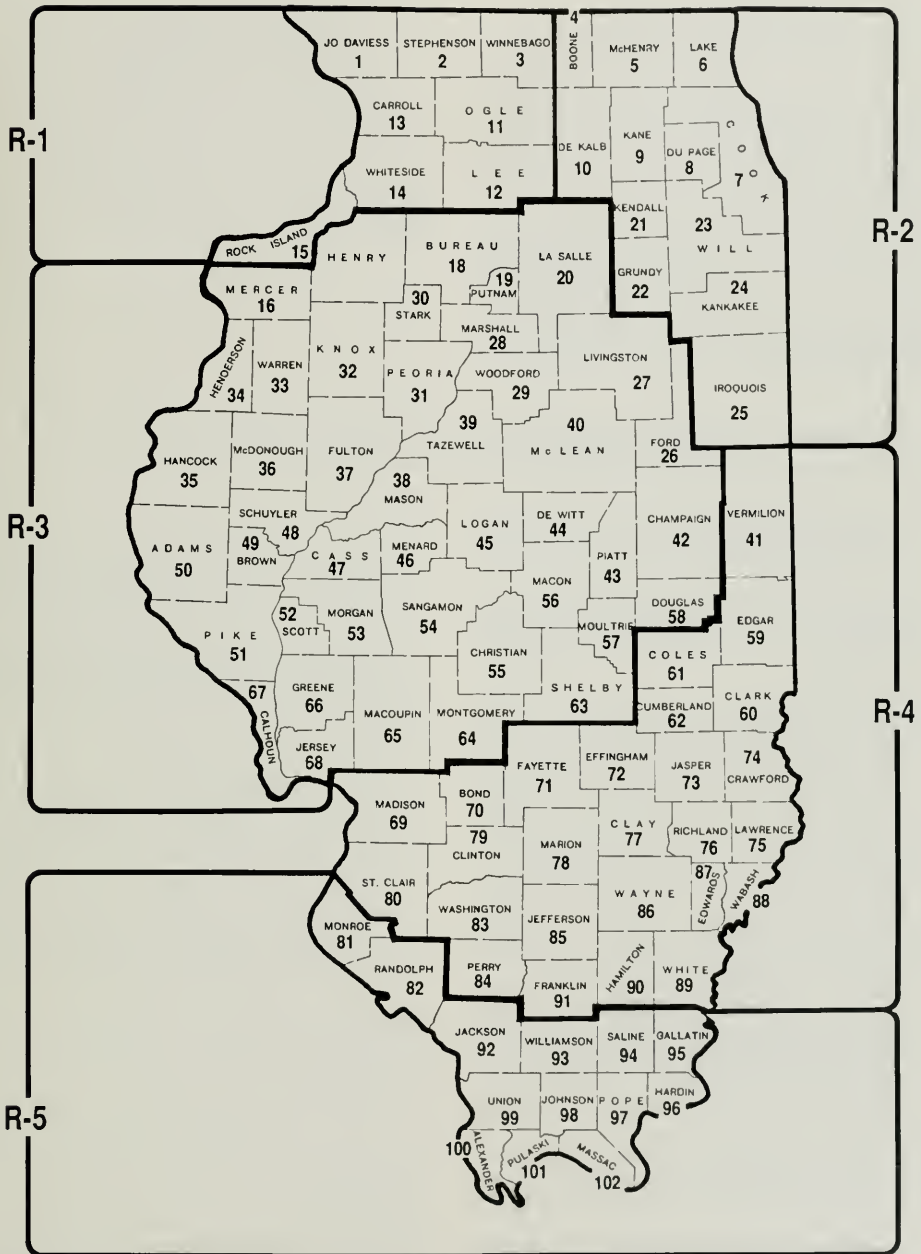


Fig. 1 — State map with counties named and numbered. The five regions (R) are divided by bold lines and numbered.

LITERATURE CITED

(for references not included
in comprehensive bibliography)

- Crum, H.A., W.C. Steere, and L.E. Anderson. 1973. A new list of mosses of North America north of Mexico. *Bryologist* 76:85-130.
- Holmgren, P.K., W. Keuken, and E.K. Schofield. 1981. Index Herbariorum. 7th ed. Regnum Vegetabile 106:[vi] + 452 p.
- Schwegman, J.E. (principal author). 1973. Comprehensive plan for the Illinois Nature Preserves System. Part 2. The natural divisions of Illinois. Illinois Nature Preserves Commission, Rockford. 32 p.
- Stotler, R., and B. Crandall-Stotler. 1977. A checklist of the liverworts and hornworts of North America. *Bryologist* 80:405-428.

ABBREVIATIONS USED IN ANNOTATIONS

- A = Anthocerotae (hornworts)
H = Hepaticae (liverworts)
M = Musci (mosses, excluding the sphagna)
R = Region
S = *Sphagnum* (peat mosses, sphagna)
[n,n,n,n] = number of species in publication from Illinois
(n,n,n,n) = number of taxa per county in a multiple county citation

ANNOTATED BIBLIOGRAPHY FOR LITERATURE TREATING ILLINOIS BRYOPHYTES
(Legends for abbreviations used are included on page 4.)

- Ammons, N. 1940. A manual of the liverworts of West Virginia. *American Midland Naturalist* 23:1-164. [2-H] *Fruillania brittoniae* and *Plectocolea fossombromioides* from Illinois, no counties listed; no specimens cited.
- Anderson, L.E. 1943. The distribution of *Tortula pagorum* (Milde) De Not. in North America. *Bryologist* 46:47-66. [1-M] Page 55, "... it might be expected to occur in southern Illinois." R-5; (p. 61) also searched for unsuccessfully in Cook Co. (dot map).
- Anderson, L.E., and R.H. Zander. 1973. The mosses of the southern Blue Ridge Province and their phyto-geographic relationship. The Journal of the Elisha Mitchell Scientific Society 89:15-60. [13-M] *Anacamptodon splachnoides*, *Bruchia texana*, *Desmatodon plimthobius*, *Dicranum polysetum*, *Entodon macropodus*, *Helodium paludosum*, *Herzogiella turfacea*, *Isoperidium distichaceum*, *Micromitrium austini*, *Polytrichum ohioense*, *Scopelophila ligulata*, *Trematodon longicollis*, and *Ulota crispata*; no counties listed; no specimens cited.
- Anderson, R.C., and J. White. 1970. A cypress swamp outlier in southern Illinois. *Transactions of the Illinois State Academy of Science* 63:6-13. [M] Moss spp. from Johnson Co.; "Mosses of various species have the highest frequencies on the tree trunks (94.2%) and on the fallen logs (98.3%)" ; no vouchers mentioned.
- Ando, H. 1972. Distribution and speciation in the genus *Hypnum* in the Circum-Pacific region. *Journal of the Hattori Botanical Laboratory* 35:68-98. [7-M] *Brotherella tenuirostris*, *Hypnum curcifolium*, *H. fertile*, *H. inopons*, *H. lindbergii*, *H. pallidum*, and *H. pratense* from Illinois, shaded range maps; no specimens cited; p. 72,75,77,80,81,84,86.
- Andrews, A.L. 1913. Sphagnaceae. *North American Flora* 15(1):1-31. [1-S] *Sphagnum compactum* from Illinois, no counties listed; no specimens cited.
- Andrews, A.L. 1959. Taxonomic notes. XIV. The dioicous form of *Mnium cuspidatum*. *Bryologist* 62:230-233. [1-M] Five packets from Woodford Co., collected 21 May 1953 by V.H. Chase.
- Andrus, R.E. 1974. The sphagna of New York state. Ph.D. dissertation. State University of New York, Syracuse. xviii + 421 p. [4-S] *Sphagnum girsengohinii*, *S. lescurii*, *S. squarrosum*, and *S. teres* from Illinois, no counties listed; no specimens cited.
- Andrus, R.E. 1979. *Sphagnum bartlettianum* in the southeastern United States. *Bryologist* 82:198-203. [3-S] *S. rubellum*, *S. subtile*, and *S. warnstorfi* from R-2, shaded range maps (p. 202); no specimens cited.
- Andrus, R.E. 1979. *Sphagnum subtile* (Russow) Warnst. and allied species in North America. *Systematic Botany* 4:351-362. [3-S] *S. nemoreum* and *S. rubellum* on shaded range map from R-2; no specimens cited; *S. subtile* from Cook and Lake cos., specimens cited; comments on niche variations and morphology.
- Andrus, R.E. 1980. A large range extension for *Sphagnum henryense*. *Bryologist* 83:239-242. [1-S] From Cook Co.; specimen cited (1LL).
- Andrus, R.E. 1980. Sphagnaceae (peat moss family) of New York State. *Contributions to the Flora of New York State III. New York State Museum Bulletin No. 442. vi + 89 p.* [18-S] From Illinois, no counties listed; no specimens cited; illustrations, keys, descriptions, tables, and ecological information; *Sphagnum angustifolium*, *S. centrale*, *S. contortum*, *S. cuspidatum*, *S. fimbriatum*, *S. fuscum*, *S. girsengohinii*, *S. lescurii*, *S. nemoreum*, *S. platyphyllum*, *S. recurvum*, *S. rubellum*, *S. squarrosum*, *S. subsecundum*, *S. subtile*, *S. teres*, *S. trinitense*, and *S. warnstorfi*.
- Anonymous. 1904. *Bryologist* 7:82. [2-M] *Atrichum angustatum* and *Entodon seductrix* from Illinois offered by Agnes Chase, no counties listed.
- Anonymous. 1905. *Bryologist* 8:56. [1-M] *Dicranella varia* from Illinois, offered by N.L.T. Nelson, no counties listed.
- Anonymous. 1907. *Bryologist* 10:95-96. [3-M] *Ceratodon purpureus*, *Ditrichum pallidum*, and *Physcomitrium turbinatum* all fruiting from Illinois, offered by F.E. McDonald, no counties listed.
- Anonymous. 1908. *Bryologist* 11:96. [1-S] *Sphagnum compactum* from Cook Co., offered by W.W. Calkins.
- Anonymous. 1909. *Bryologist* 12:15. [2-M, 1-S] *Bryum caespiticium*, *Polytrichum commune*, and *Sphagnum compactum* from Cook Co.; no specimens cited.

18. Anonymous. 1909. *Bryologist* 12:41,74. [2-M] *Barbula unguiculata* and *Leskea polycarpa* (corrected to *L. obscura* on p. 74) from Cook Co., offered by W.W. Calkins.
19. Anonymous. 1909. *Bryologist* 12:57-58. [2-M] *Polystichum commune* var. *uliginosum* and *P. ohioense* from Cook Co., offered by W.W. Calkins.
20. Anonymous. 1909. *Bryologist* 12:94. [1-M, 2-S] *Anomodon attenuatus*, *Sphagnum acutifolium*, and *S. compactum* from Cook Co., offered by W.W. Calkins.
21. Anonymous. 1909. *Bryologist* 12:111. [3-M] *Amblystegium noterophilum* from Cook Co., offered by E.J. Hill; *Funaria hygrometrica* and *Hypnum aduncum gracilenscens* from the Peoria area (R-3), offered by F.E. McDonald.
22. Anonymous. 1910. *Bryologist* 13:48. [3-M] *Barbula fallax* and *Dicranella varia* from Illinois offered by W.W. Calkins; *Rhynchostegium serrulatum* from Illinois, offered by F.E. McDonald; no counties listed.
23. Anonymous. 1910. *Bryologist* 13:124. [1-M] *Thelia asprella* from Illinois, offered by W.W. Calkins; no counties listed.
24. Anonymous. 1911. *Bryologist* 14:24,92. [2-M] *Amblystegium juratzkanum* and *Orthotrichum strangulatum* from Illinois, offered by W.W. Calkins, no counties listed.
25. Anonymous. 1918. *Bryologist* 21:68. [3-M] *Catharina angustata*, *Dicranella heteromalla*, and *D. varia* from Illinois, offered by F.E. McDonald, no counties listed.
26. Anonymous. 1919. *Bryologist* 22:76. [1-M] *Gymnostomum curvirostre* from Illinois, no counties listed; no specimen cited.
27. Armstrong, P.K. 1981. Bryophytes. Tiny treasures of the plant world. *Morton Arboretum Quarterly* 17:17-30. [1-A, 1-H] *Anthroceros laevis* from "our area" (R-2); *Conocephalum conicum* from La Salle Co.; no specimens cited.
28. Armstrong, P.K. 1983. Bryophytes of the Morton Arboretum. *Morton Arboretum Quarterly* 19:17-32. [8-11, 26-M] From Du Page Co.; habitat information, excellent black and white photographs; *Anastrophyllum michauxii* [?] and *Anomodon viticulosus* [misdetemined]; no specimens cited; vouchers at MOR.
29. Artist, R.C. 1934. Stratigraphy and preliminary fossil pollen analysis of a Lake County, Illinois, bog. M.S. thesis. Northwestern University, Evanston, Illinois. 36 p. [2-M, 1-S] *Aulacomnium palustris*, *Sphagnum*, and *Streacomnium pratensis*, ecological information, no specimens cited but mentioned from other works; "Sphagnum sent to R.S. Williams, identifications not yet received."
30. Artist, R.C. 1936. Stratigraphy and preliminary fossil pollen analysis of a Lake County, Illinois, bog. *Butler University Botanical Studies* 3:191-198. [1-M, 1-S] *Drepanocladus Wilsoni* [sic] (in lower part of deposit) and *Sphagnum*; no specimens cited; ecological information.
31. Arzeni, C.B. 1947. Some bryophytes of Coles and Clark counties. *Transactions of the Illinois State Academy of Science* 40:44-49. [3-A, 39-H, 127-M, 3-S] Annotated checklist for Clark Co. (3,37,119,3) and Coles Co. (2,22,101,0); a very thorough study but some of the reports are questionable (i.e., *Calliergonella cuspidata*, *Campylum stellatum*, *Dicranum undulatum*, and *Thuidium abietinum*).
32. Arzeni, C.B. 1977. Mosses and liverworts. Eastern Illinois University, Charleston. [v] + 12 p. + 51 pls. [3-A, 23-11, 75-M, 4-S] Illustrated manual for use in local flora classes at EIU; taxa occurring in "our area," east central Illinois (R-4); descriptions, key, and habitat information; no index; no specific localities given; no specimens cited.
33. Arzeni, C.B. 1980. Mosses and liverworts. Eastern Illinois University, Charleston. vii + 253 p. [3-A, 57-11, 89-M, 4-S] Illustrated manual for use in local flora classes at EIU; most of the taxa are listed as occurring in "our area;" however, only the list of 20 endangered or threatened species (p. i) are specifically cited from east central Illinois (R-4); descriptions, key, and habitat information; no specific localities given; no specimens cited.
34. Arzeni, C.B., and B.N. McKnight. 1976. *Buxbaumia aphylla*, a new report for Illinois. *Bryologist* 79:266. [6-11, 4-M] From Pope Co.; in association with *Atrichum angustatum*, *Bazzania trivenata*, *Bryoandersonia illecebra*, *Calyptogea* sp., *Cephalozella* sp., *Dicranella heteromalla*, *Lophocolea minor*, *Odontochisma prostratum*, and *Scapania nemorosa*; only *Buxbaumia* vouchered (EIU, SIU).
35. Arzeni, C.B., and D.J. Royle. 1975. Mosses and liverwort. *Outdoor Illinois* 14(2):46-48. [3-H, 12-M] From Clark Co.; general information about some locally common bryophytes; no vouchers mentioned.
36. Atwell, R.S. 1914. The appearance of polar bodies in the spermatogenous tissue of *Riccicarpus natans* (L.) Corda. *Bulletin of the Torrey Botanical Club* 41:333-336. [1-H] From Cook Co. during June and July; no specimen cited.
37. Austin, C.F. 1869. Characters of some new Hepaticae (mostly North American), together with some notes on a few imperfectly described species. *Proceedings of the Academy of Natural Sciences of Philadelphia* 1869:218-234. [1-11] *Lophocolea Hallii* [sic] from Illinois; no counties listed (p. 222); collected by F. Hall; no specimen cited.
38. Austin, C.F. 1872. New Hepaticae. *Bulletin of the Torrey Botanical Club* 3(3):9-18. [1-H] *Jungermannia Sullivantiae* [sic] from Illinois (p. 12); collected by E. Hall, no counties listed, no specimen cited.
39. Austin, C.F. 1880. Bryological notes and criticisms. *Bulletin of the Torrey Botanical Club* 7:2-8. [1-M] *Wessia Wolfii* [sic] (= *W. viridula*) from Illinois (Fulton Co.); no male plants found.
40. Barkley, E.E. 1940. The influence of environmental factors on the growth, development, and structure of the gametophyte of *Funaria hygrometrica*. M.S. thesis. The University of Chicago. 27 p. [1-M] Page 2, capsules collected 1/2 mile west of Burns' Ditch Bridge on U.S. Route 12 in June 1937 by Paul Vorh, but no voucher mentioned; culturing information.
41. Barkley, E.E. 1941. Gemmae of *Funaria hygrometrica*. *Transactions of the Illinois State Academy of Science* 34:102-105. [1-M] Collected June 1937 from R-2; no specimen cited.
42. Barnes, C.R. 1887. A revision of the North American species of *Fissidens*. I. *Botanical Gazette* 12:1-8, 25-32. [3-M] *F. grandifrons* from Illinois (Wolf, Brendel), *F. halbanus* from Menard Co. (Athens, Hall), and *F. obtusifolius* from Fulton Co. (Canton, Wolf); p. 7,28,29.
43. Barnes, C.R. 1897. Analytic keys to the genera and species of North American mosses. Revised and extended by F.D. Heald. *Bulletin of the University of Wisconsin, Science Series* 1:x + 157-368. [4-M] *Amblystegium hysciophyllum* and *Bryum cuspidatum* from Illinois, no counties listed; type locality of *Dicranum boujeanum alatum* (Cook); *Orthotrichum speciosum* (Winnebago); no specimens cited.
44. Best, G.N. 1898. *Fabroleskea*, new genus of mosses. *Bulletin of the Torrey Botanical Club* 25:108-109. [1-M] Type locality of *F. Austum* [sic] from Illinois collected by Wolf, no county listed, no specimen cited.
45. Blair, M.C. 1918. Studies in the morphology and embryology of *Reboulia hemisphaerica* (L.) Raddi. M.S. thesis. Northwestern University, Evanston, Illinois. 53 p. + pl. XII. [1-11] From Jo Daviess Co. (Miner's Gulch), collected

- 23 September 1917 and 14 April 1918; no mention of voucher: "This region . . . affords a fine environment for many species of bryophytes."
46. Blair, M.C. 1922. Sporogenesis in *Reboulia hemisphaerica* (L.) Raddi. Ph.D. dissertation. Northwestern University, Evanston, Illinois. 39 p. + pl. IV (52 fig.). [1-H] From Jo Daviess Co.; no mention of voucher; very similar to Blair (1918); review of sporogenesis literature.
47. Blair, M.C. 1926. Sporogenesis in *Reboulia hemisphaerica*. Botanical Gazette 81:377-400 + pls. XXX, XXXI. [1-H] From Jo Daviess Co.; no mention of voucher.
48. Boewe, G.H., S.H. Barrick, and S.M. Hague. 1935. Mosses from Apple River Canyon, Mississippi Palisades and White Pine Forest State Parks. Transactions of the Illinois State Academy of Science 28:83-84. [63-M] Checklist for Carroll (36), Jo Daviess (40), and Ogle (24) cos.; collected in the fall of 1934, but no specimens cited.
49. Bowers, M.C. 1966. New bryophytes for Colorado. Bryologist 69:368-369. [1-M] *Mnium trichomanes* reported in U.S. from Illinois by Andrews (1959); no specimen cited.
50. Brassard, G.R. 1984. The moss genus *Timmia*. 3. Sect. *Timmia*. *Lindbergia* 10:33-40. [1-M] *T. megalopolitana* var. *megalopolitana* from Illinois (R-2,3), three to four populations on dot map (p. 38); specimens examined but not cited.
51. Breen, D. 1985. The bryophytes of Fox Ridge State Park, Coles County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. iii + 20 p. [4-H, 68-M] Annotated checklist with specimens cited (EJU), ecological information, frequency; *Funaria americana* (Will) and *Polytrichum* (Lake) from literature; *Bryhnia novae-angliae* [?], *Eutodon brevisetus* [?], *Lindbergia brachyptera* [?] "without papillae," *Thuidium abietinum* [?]; contrary to the statement in the Methods Section, B.N. McKnight did not verify all the specimens.
52. Brendel, F. 1859. Additions and annotations to Mr. Lapham's catalogue of Illinois plants. Transactions of the Illinois State Agricultural Society 3:583-587. [27-M] Report of bryophytes from "around Peoria" (R-3) with checklist; no specimens cited.
53. Brendel, F. 1882. Flora Peoriana. Die vegetation im clima von mittel-Illinois. Természetráji Füzetek 5:299-405. [2-A, 17-H, 68-M] Annotated checklist (p. 289-292) of some bryophytes in the Peoria area (R-3) with a list of 4 liverworts and 34 mosses reported by Wolf & Hall in 1878 as yet absent around Peoria; reprinted in English, with additions and changes, in Brendel (1887); printed separately in Budapest (1882) by Buchdruckeri des Franklin-Verein, 107 p., with checklist (p. 91-93).
54. Brendel, F. 1882. Flora Peoriana. A catalogue of plants observed and collected in the vicinity of Peoria, Ill., 1852-1877, by Fred Brendel. The Pharmacist and Chemist 15:263-268, 291-299. [2-A, 17-H, 72-M] Checklist for R-3 (p. 298-299); no specimens cited.
55. Brendel, F. 1887. Flora Peoriana. The vegetation in the climate of middle Illinois. J.W. Franks and Sons, Peoria, Illinois. 89 p. [2-A, 22-H, 78-M] Annotated checklist (p. 65-67) of some bryophytes in the Peoria area (R-3) including a list of 7 liverworts and 39 mosses found by Wolf & Hall in Fulton Co. but not yet observed around Peoria; *Fissidens grandifrons* and *Gymnostomum curvirostrum* [sic] from La Salle Co.; reprinted in English, with some changes, from Brendel (1882).
56. Britton, E.G. 1894. Contributions to American bryology - VI. I. Western species of *Orthotrichum*. Bulletin of the Torrey Botanical Club 21:137-159. [1-M] *O. speciosum* from Winnebago Co. collected by Röll; no specimen cited.
57. Britton, E.G. 1894. Contributions to American bryology - VII. A revision of the genus *Physcomitrium*, with descriptions of five new species. Bulletin of the Torrey Botanical Club 21:189-208 + pls. 197-203. [2-M] *P. acuminatum* from La Salle Co. and from another unspecified location in Illinois, collected independently by J.W. Huett and E. Hall; *P. drummondii*, "Hall's Illinois specimens are probably *P. acuminatum*."
58. Britton, E.G. 1894. Contributions to American bryology, VIII. A revision of the genus *Bruchia*, with descriptions of types, and one new species. Bulletin of the Torrey Botanical Club 21:343-372 + pls. 213-217. [2-M] Page 349, *B. brevicollis* from Illinois collected by Vasey; p. 350, "Dr. Vasey's specimens from Illinois are also immature, so young that they are still caulescent, the calyptra is only just formed and the capsule is yet a mere thickening of the stout, curved pedicel. The leaves are subpapillose on the back, and specimens preserved in Austin's Herbarium, labeled *B. beyrichiana*, Ringwood, McHenry Co., Ill. collected by Dr. Vasey, are corrected to *B. sullivanii*."
59. Britton, E.G. 1895. Contributions to American bryology - XI. 3. Notes on the genus *Leersta* Hedw. Bulletin of the Torrey Botanical Club 22:447-458 + pls. 248,249. [1-M] *Encalypta ciliata* from Illinois, no counties listed; no specimen cited.
60. Britton, E.G. 1913. Ditrichaceae. North American Flora 15(1):55-67. [2-M] *Bruchia texana* and *Pleuroidium alternifolium* from Illinois, no counties listed; no specimens cited.
61. Burnette, D.C. 1981. Bryophytes of Rocky Branch Nature Preserve, Clark County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. v + 107 p. [14-H, 36-M, 2-S] Contains descriptions, ecological information, and dot maps, with vouchers at EJU; *Hookeria acutifolia*, *Nardia lescurii*, *Sphagnum girgensohnii*, *S. palustre*, and *Trichocolea tomentella*; dot map for distribution of each species in Illinois based on literature reports.
62. Calkins, W.W. 1910. Mosses of Cook County, Illinois. Bryologist 13:107-111. [49-M, 2-S] Annotated checklist, but no specimens cited; *Hylacomium triquetrum*, *Sphagnum acutifolium*, and *S. compactum*.
63. Cardot, J., and I. Thériot. 1900. New or unrecorded mosses of North America. I. Botanical Gazette 30:12-24 + pls. 2-5. [1-M] *Phascom cuspidatum* var. *americanum* from Illinois, no county listed; no specimen cited.
64. Cardot, J., and I. Thériot. 1901. New or unrecorded mosses of North America. Bryologist 4:75-76. [1-M] *Phascom cuspidatum* from Illinois, no counties listed; no specimens cited.
65. Cardot, J., and I. Thériot. 1904. New or unrecorded mosses of North America. II. Botanical Gazette 37:363-382 + pls. 16-25. [1-M] *Dicranum alatum* from Illinois, R-3 (*Röll* 1838).
66. Cardot, J., and I. Thériot. 1905. New or unrecorded mosses of North America. Bryologist 8:8-11. [1-M] *Dicranum Bonjeani* [sic] from the Chicago area [probably Cook Co.] by *Röll* 1888.
67. Carothers, Z.B., J.W. Moser, and J.G. Duckett. 1977. Ultrastructural studies of spermatogenesis in the Anthocerotales. II. The lepharoplast and anterior mitochondrion in *Phaeoceros laevis*: later development. American Journal of Botany 64:1107-1116. [1-A] *P. laevis* subsp. *carolinianus* from Johnson Co.; no voucher mentioned.
68. Carvey, K., D.R. Farrar, and D.C. Glenn-Lewin. 1977. Bryophytes and revegetation of coal spoils in southern Iowa. Bryologist 80:630-637. [1-S] Page 635, O'Flaherty et al. (1975) reported this species (*Sphagnum fimbriatum*) as new to Illinois. "There it also occurs on a coal seep in McDonough Co."
69. Chamberlin, M.A. 1980. The morphology and development

- of the gametophytes of *Fissidens* and *Bryoxiphium* (Bryophyta). M.A. thesis. Southern Illinois University, Carbondale. iii + 59 p. [1-M] *F. taxifolius* from Williamson Co.; culturing regime data with ontological descriptions and illustrations; voucher at SIU.
70. Cheney, L.S. 1897. North American species of *Amblystegium*. Botanical Gazette 24:236-291 + pls. 11-13. [1-M] *A. notropophilum* from Illinois (p. 275); no county listed [probably R-2]; no specimen cited. reprinted by The University of Chicago Press, 1897.
71. Chimney, M.J. 1984. First report of *Ricciocarpos natans* (L.) Corda (Marchantiales:Ricciaceae) from a strip mine impoundment. Transactions of the Illinois State Academy of Science 77:43-44. [1-H] From Knox Co.; no mention of voucher; water chemistry data for collection site.
72. Christy, J.A., M.J. Dibben, F.J. Bowers, and R.E. Andrus. 1986. Ten mosses new to Wisconsin. Evansia 3:12-13. [2-M, 2-S] *Anodonon rugelii*, *Funaria flavicans*, *Sphagnum hrynysense*, and *S. recurvum* from Illinois, no counties listed; from literature, no specimens cited.
73. Clapp, G.L. 1912. The life history of *Aneura pinguis*. Botanical Gazette 54:177-193. [1-H] From Chicago area [probably Cook Co.]; no specimen cited; p. 177, 178.
74. Clute, W.N. 1932. Swamp and dune. Published by the author, Indianapolis. 72 p. [2-M] *Ceratodon purpureus* and *Polytrichum* from Will Co. (p. 7,8,14); no specimen cited.
75. Conard, H.S. 1959. *Amblystegium*. Bryologist 62:96-104. [5-M] *A. brevipes* and *A. riparium* (with three unnamed varieties ABBC, ABC, Abc) from Illinois, no counties listed; no specimens cited.
76. Conard, H.S. 1979. How to know the mosses and liverworts. 2nd ed. Revised by P.L. Redfearn, Jr. Wm.C. Brown Co. Publ., Dubuque, Iowa, xi + 302 p. [10-11, 29-M, 3-S] Numerous other taxa implied from Illinois, no counties listed; no specimens cited; descriptions, keys, and illustrations.
77. Cowles, H.C. 1901. The plant societies of Chicago and vicinity. The Geographic Society of Chicago, Bulletin No. 2. 76 p. [2-H, 3-M, 1-S] *Bryum*, *Ceratodon*, *Polytrichum commune*, *Riccia*, *Ricciocarpos*, and *Sphagnum* from Cook Co.; extensive patch of *Sphagnum* in extinct oxbow near Starved Rock (La Salle Co.); p. 32,39,41,44.
78. Cowles, H.C. 1918. Part III. Botany. Pages 129-141 in C.O. Sauer, G.H. Cady, and H.C. Cowles (eds.), Starved Rock State Park and its environs. The Geographic Society of Chicago, Bulletin No. 6. x + 148 p. [1-A, 6-11, 1-M] *Anthroceros*, *Blasia*, *Conocephalum*, *Marchantia*, *Pellia*, *Polytrichum*, *Reboulia*, and *Scapania* from La Salle Co.; no specimens cited.
79. Crandall-Stotler, B., and K.S. Renzaglia. 1984. Liverworts and hornworts of Garden of the Gods, Shawnee National Forest, Saline County, Illinois. Transactions of the Illinois State Academy of Science 77:45-50. [2-A, 38-11] Annotated checklist with specimens cited, vouchers at SIU: *Bazzania tricornata*, *Lophozia bicrenata*, *Scapania undulata*, and *Trichocolen tomentella*.
80. Crandall-Stotler, B., and R. Stotler. 1978. Liverworts and hornworts of Lusk Creek Canyon Nature Preserve, Pope County, Illinois. Transactions of the Illinois State Academy of Science 71:312-321. [1-A, 47-11] Annotated checklist with specimens cited, vouchers at SIU; comparison to number of species found in other southern Illinois locations in Jackson (32), Union (21), and a previous Lusk Creek study (34): *Lejuneia laetvirens* and *Marcupella emarginata*.
81. Crosby, M.R., and L.E. Anderson. 1967. The mosses of a disjunct hemlock stand in the piedmont of North Carolina. Bryologist 70:299-311. [1-M] *Thamnobryum alleghaniense* from Illinois, no counties listed; no specimen cited.
82. Crotz, D.K. 1977. The status of *Calypogeja fissa* (L.) Raddi in North America. M.S. thesis. Southern Illinois University, Carbondale. vi + 114. [1-H] *C. fissa* subsp. *neogaea* in axenic culture from Gallatin Co.; "... no true *C. fissa* in North America"; no voucher mentioned.
83. Crum, H.A. 1956. *Lindbryum brachyptera* in North America. Bryologist 59:203-212. [1-M] From Coles, Du Page, and Fulton cos., one dot map; specimens cited.
84. Crum, H.A. 1958. *Anacamptodon* in North America. Bryologist 61:136-140. [1-M] *A. splachnoides* from Illinois (R-3), no specimens cited.
85. Crum, H.A. 1983. Mosses of the Great Lakes forest. 3rd ed. University of Michigan Herbarium, Ann Arbor. 417 p. [7-M] *Bryum algovicum*, *B. uliginosum*, *Calliergon cordifolium*, *Helodium blandovium*, *Plagiothecium denticulatum*, *Platydictya subtile*, and *Polytrichum juniperinum* var. *affine* from Illinois, no counties listed or specimens cited; excellent keys, illustrations, descriptions, and ecological information; eds. 1 (1973 and 1974) and 2 (1976) list the same taxa.
86. Crum, H.A. 1984. Sphagnopsida, Sphagnaceae. North American Flora, Series II, 11:iv + 180. [6-S] Superior treatment with illustrations, keys, and descriptions; no counties listed; no specimens cited; *Sphagnum centrale*, *S. imbricatum*, *S. papillosum*, *S. subsecundum* var. *contortum*, *S. teres*, and *S. warnstorfi*.
87. Crum, H.A., and L.E. Anderson. 1955. Taxonomic studies in the Funariaceae. Bryologist 58:1-15. [3-M] *Entosthodon neosoticus* (= *Pottia randii*) Illinois, *Physcomitrum acuminatum* (from Illinois according to Lesquerieux & James) specimens from Illinois named by Grout are actually *P. pyriforme*; Britton applied the name *Pottia randii* to plants from Illinois, although she admittedly had not seen authentic specimens.
88. Crum, H.A., and L.E. Anderson. 1956. Taxonomic studies on North American mosses. I-V. Journal of the Elisha Mitchell Scientific Society 72:276-291. [2-M] *Orthotrichum pumilum* and *O. pusillum* from Illinois, no counties listed; no specimens cited.
89. Crum, H.A., and L.E. Anderson. 1965. The taxonomy and distribution of *Acaulon schimperianum*. Bryologist 68:208-211. [1-M] From Menard Co., "likelihood [sic] ... seems plausible;" no specimen cited.
90. Crum, H.A., and L.E. Anderson. 1981. Mosses of eastern North America. 2 vols. Columbia University Press, New York. 1328 p. [58-M, 6-S] Taxa reported from Bureau, Hancock, and Johnson cos., but most reports are from unspecified Illinois locations; some specimens cited; chromosome count for *Mnium affine* var. *ciliare* (n=6) and ignoring an early count (n=12) for *Tymnia megaloptana*; *Cratoneuron commutatum* and *Scopelophila ligulata*.
91. Darlington, H.T. 1964. The mosses of Michigan. Cranbrook Institute of Science, Bulletin No. 47. 212 p. [2-M] *Amblystegiella subtilis* and *Tortula papillosa* from Illinois, no counties listed; no specimens cited.
92. Davidonis, G.H., and M.H. Munroe. 1972. Apical dominance in *Marchantia*: correlative inhibition of neighbor lobe growth. Botanical Gazette 133:177-184. [1-11] *M. polymorpha* collected in 1955 by P. Voth, 9 miles south of Oregon, Ogle Co. (p. 178); no mention of voucher.
93. Davis, B.M. 1901. Nuclear studies on *Pellia*. Annals of Botany 15:147-180. [1-11] *Pellia epiphylla* from Starved Rock, La Salle Co. in 1899; n=8; no mention of voucher.
94. DiMichele, W.A., and T.L. Phillips. 1976. *Thalites dichopleurus* sp. nov. from the Middle Pennsylvanian Mazoon

- Creek flora. *Bulletin of the Torrey Botanical Club* 103:218-222. [1-H] Type specimen PP19467 (F) of fossil from Grundy Co.; "*T. dichopleurus* is either an alga or a thalloid liverwort... If it were an hepatic, the Metzgeriales would be the closest in comparable morphology."; illustration and photographs.
95. Downing, E.R. 1924. *A naturalist in the Great Lakes region*. 2nd ed. University of Chicago Press, Chicago, Illinois. xxv + 336 p. [4-H, 1-M, 1-S] *Conocephalum*, *Marchantia*, *Riccia*, *Ricciolepis*, and *Sphagnum* from R-2; *Polytrichum* sp. from La Salle Co.; no specimens cited; p. 194,234,265.
96. Duerr, J.J. 1967. *A study of succession on an acid peat bog in Kane County, Illinois*. M.S. thesis. Northern Illinois University, De Kalb. vii + 59 p. [3-M, 2-S] *Dicranum rugosum* [?], *Mnium* sp., *Polytrichum commune*, *Sphagnum magellanicum*, and *Sphagnum* sp. (extensive); no voucher data.
97. Dupler, A.W. 1922. The male receptacle and antheridium of *Reboulia hemisphaerica*. *American Journal of Botany* 9:285-295. [1-H] Second group of material for developmental morphology study was secured from near Mt. Carroll (Carroll Co.) January to August 1916; no voucher mentioned.
98. Dybas, H.S. 1978. The systematics and geographical and ecological distribution of *Ptiliopyena*, a Nearctic genus of parthenogenetic featherwing beetles (Coleoptera: Ptiliidae). *American Midland Naturalist* 99:83-100. [3-S] At least three sphagna (*Sphagnum magellanicum*, *S. squarrosum*, and *S. teres*) from Lake Co. and R-2; no vouchers mentioned.
99. Emerson, F.W. 1921. Subterranean organs of bog plants. *Botanical Gazette* 72:359-374. [1-S] *Sphagnum* sp. from Cook and Lake cos.; no vouchers mentioned.
100. Emmitt, R.W. 1950. *Fontinalis disticha* and *Fissidens halianus* reported from Ohio. *Bryologist* 53:237. [1-M] *F. halianus* is listed by Grou (1928) as having been reported from Illinois; no specimen cited.
101. Evans, A.W. 1906. Notes on New England Hepaticae.-IV. *Rhodora* 8:34-35. [1-H] Page 40, *Lophocolea Hallii* [sic] of Illinois (Austin, 1869), "a doubtful species"; no county listed.
102. Evans, A.W. 1910. Notes on New England Hepaticae.-VIII. *Rhodora* 12:193-204. [1-H] Page 193, *Riccia sorocarpa* from Illinois according to Underwood (1894), no county listed; no specimen cited.
103. Evans, A.W. 1912. Notes on New England Hepaticae.-IX. *Rhodora* 14:1-18. [1-H] *Riccia lescuriana* from Illinois (on authority of Austin), no county listed; no specimen cited.
104. Evans, A.W. 1914. Notes on New England Hepaticae.-XI. *Rhodora* 16:62-76. [1-H] Page 64, *Neesiella rupestris* from Illinois, no county listed; no specimen cited.
105. Evans, A.W. 1917. Notes on New England Hepaticae.-XIV. *Rhodora* 19:263-272. [1-H] Page 264, *Riccia frostii* from Illinois by J. Wolf, from literature, no county listed.
106. Evans, A.W. and G.E. Nichols. 1908. The bryophytes of Connecticut. Connecticut Geological and Natural History Survey Bulletin No. 11. 203 p. [1-H, 3-M] *Anacamptodon splachnoides*, *Elodium paludosum*, *Frullania brittoniae*, and *Pyralis subdenticulata* from Illinois, no counties listed; no specimens cited.
107. Evers, R.A. 1952. Hill prairies of Illinois. Ph.D. dissertation. University of Illinois, Urbana-Champaign. v + 148 p. [1-H] *Reboulia hemisphaerica* [probably misdetermined *Mannia fragans*] from R-3 and R-5; no specimens cited.
108. Evers, R.A. 1955. Hill prairies of Illinois. Illinois Natural History Survey Bulletin 26:367-446. [1-H] *Reboulia hemisphaerica* [probably misdetermined *Mannia fragans*] from Illinois, no counties listed, primarily along bluffs of Illinois and Mississippi rivers (R-3); no specimens cited.
109. Evers, R.A. 1961. Presidential Address. Natural or scientific areas: and Illinois resource. *Transactions of the Illinois State Academy of Science* 54:3-12. [1-M, 1-S] The sandstone ledges at Little Bay Creek (Pope Co.) support patches of various mosses including species of *Grimmia*, which are deep green when wet but almost black when dry; *Sphagnum* sp. occurs on the sandstone wall of ravine in Little Grand Canyon (Jackson Co.).
110. Evers, R.A. 1964. Rocky Branch unusual nature area. *Outdoor Illinois* 3(2):31-32. [1-H, 1-S] *Conocephalum conicum* and *Sphagnum* from Clark Co.; no specimens cited.
111. Evers, R.A., and C.C. Hoff. 1946. Siloam Springs State Park. *Transactions of the Illinois State Academy of Science* 39:50-56. [1-M] *Polytrichum commune* from Adams and/or Brown cos.; "mosses are abundant"; no specimens cited but noted that most plants are vouchered at ILL or ILLS.
112. Evers, R.A., and L.M. Page. 1977. Some unusual natural areas in Illinois. Illinois Natural History Survey, Biological Notes 100. 47 p. [1-H, 2-M, 1-S] *Conocephalum conicum* (Clark), *Grimmia* (Pope), *Polytrichum* (Jefferson), and *Sphagnum* (Clark, Jackson, Lake, Pope); (p. 11,20,24,28,30, 37,38,40); previously published by Evers (1963) as Biological Notes 50, with the same taxa listed.
113. Fell, E.W. 1957. Plants of a northern Illinois sand deposit. *American Midland Naturalist* 58:441-451. [1-M, 1-S] Winnebago Co., with vouchers at ISM but no specimens cited; "The sand plains and dunes contain a number of well-developed, shallow *Sphagnum* bogs... *Sphagnum* is largely replaced by *Polytrichum* in places that are getting dry... *Polytrichum commune* is an important mat former which covers large areas to the exclusion of other growth, unidentified mosses are less important."
114. Fell, E.W., and G.B. Fell. 1957. The ravine flora of Winnebago County, Illinois. *Transactions of the Illinois State Academy of Science* 50:83-89. [2-H, 1-M] The sloping base of the cliff and the talus are thickly covered in places with *Lunularia* [?], *Marchantia*, *Polytrichum*, and unidentified mosses; no specimens cited.
115. Fife, A.J. 1979. Taxonomic observations on three species of North American *Funaria*. *Bryologist* 82:204-214. [3-M] Lesquerieux and James (1884) reported *F. microstoma* from Illinois based on collections by Patterson from Oquawka (Henderson Co.) and by Schneck (Wabash Co.). These collections as well as a third Illinois collection are preserved in the James Herbarium; all are *F. flavicans* or mixtures of *F. flavicans* and *F. hygrometrica*; Grou (1935) reported the North American distribution of *F. microstoma* s.s. to include Illinois (he did not study the misnamed Illinois material mentioned above).
116. Flowers, S. 1930. *Pottia randii* Kennedy. *Bryologist* 33:30. [3-M] *Amblystegium serpens*, *Drepanocladus aduncus* vars., and *Pottia randii* (two populations, fruiting) collected in Chicago (Cook Co.) on 20 July by author; no specimens mentioned.
117. Flowers, S. 1973. Mosses: Utah and the West. Edited by A. Holmgren. Brigham Young University Press, Provo, Utah. xii + 567 p. [5-M] *Brachythecium campestre*, *Bryum uliginosum*, *Plagiothecium muellerianum*, *Pterygoneurum subsessile*, and *Tortula mucronifolia* from Illinois, no counties listed; no specimens cited.
118. Freeman, G.W. 1974. A survey of the bryophytes of the western one-third of Hancock County, Illinois. M.S. thesis. Western Illinois University, Macomb. vii + 47 p. [1-A, 22-H, 98-M] Annotated checklist with vouchers at SMS, SIU, and WIU; *Asterella saccata*, *Atrichum crispum*, *Barbula cuneolata*, *Fissidens exiguus*, *Frullania kunzei* [?], *Physcomitrium immersum*, and *Sphaerocarpos texanus*.

119. Fritsch, R. 1982. Index to plant chromosome numbers - Bryophyta. F.A. Stafleu (ed.). *Regnum Vegetabile* 108:xiv + 268 p. [1-A, 1-H] *Notothylas orbicularis* (n=ca. 5 + acc.) mitotic; *Pellia epiphylla* (n=8) meiotic and mitotic; no mention of specific locations or vouchers.
120. Frye, T.C., and L. Clark. 1937-1947. Hepaticae of North America. University of Washington Publications in Biology 6(1-5):1-1022. [4-A, 55-H] From R-5 (0,1), Champaign (0,6), Cook (0,1), Du Page (0,3), Hardin (0,1), La Salle (0,2), and Peoria (0,1) cos., with the rest from unspecified locations in Illinois; some specimens cited; *Pleuroclada abrescens* [?].
121. Fuller, G.D. 1917. The vegetation of the Chicago region. An outline of some of the principal plant associations together with lists of their principal species. Published privately, Chicago. 28 p. [1-A, 8-H, 2-M] *Aneura pinguis*, *Anthoceros larvus*, *Blasia pusilla*, *Cephalozia*, *Marchantia polymorpha*, *Pellia epiphylla*, *Reboulia*, *Riccioecarpus natans*, and *Scapania nemorosa* from Cook Co.; *Polytrichum juniperinum* and *P. piliferum* from La Salle Co.; p. 21-22.
122. Galligar, G.C. 1934. Some bryophytes of Macon County, Illinois. Transactions of the Illinois State Academy of Science 27:60-61. [5-H, 36-M] Annotated checklist, no specimens cited.
123. Garber, J.F. 1904. The life history of *Riccioecarpus natans*. Botanical Gazette 37:161-177. [1-H] From the Chicago area (R-2) [probably Cook Co.]; no specimen cited.
124. Gatchell, S.L. 1978. The effects of sulphur dioxide on selected hepatics. M.S. thesis. Eastern Illinois University, Charleston. iv + 53 p. [4-H] *Blasia pusilla* and *Jamesoniella autumnalis* from Coles Co.; *Lophocolea heterophylla* and *Scapania nemorosa* from Clark Co.; sites for *Blasia* and *Jamesoniella* are switched; no vouchers.
125. Gates, E.C. 1912. The vegetation of the beach area in northeastern Illinois and southeastern Wisconsin. Bulletin of the Illinois State Laboratory of Natural History 9:255-372 + pls. XXXVII-LVI. [2-H, 1-M] *Marchantia polymorpha*, *Polytrichum juniperinum*, and *Riccia fluitans* from Lake Co., (p. 353) some specimens cited from F. ILL., and author's collection; (p. 299) unidentified mosses are secondary species in bunch-grass association; (p. 313) unidentified mosses in *Quercus velutina* association; (p. 322) *Riccia* tends to remain nearer the border of the *Nymphaea* and *Typha* in the *Lemna-Riccia* association, numerous small animal forms are associated; (p.327) *Riccia* is frequent in *Phragmites-Typha* association; (p. 330) an abundance of *Marchantia* may occasionally be found in association with *Calamagrostis*; (p. 334) *Polytrichum* associated with *Osmunda regalis*; (p. 335) "mosses" are secondary species in *Potentilla fruticosa* association.
126. Gleason, H.A. 1903. Notes on some southern Illinois plants. Torrey 3:1-3. [1-11] Page 2, in southern Illinois *Heuchera parviflora* grows in abundance with *Marchantia* and other Hepaticae, no counties listed; no vouchers mentioned.
127. Gleason, H.A. 1910. The vegetation of the inland sand deposits of Illinois. Bulletin of the Illinois State Laboratory of Natural History 9:23-174 + pls. 1-XX. [1-M] *Polytrichum juniperinum* from Winnebago and Henderson cos.; (p. 112-114) The *Polytrichum* association; (p. 115) The *Saxix* and *Polytrichum* associations occupy parallel positions, but develop under different conditions. *Polytrichum* association may develop at almost any level in the blowout; (p. 116) *Polytrichum* may colonize not only under the *Solidago* but also under a more xerophytic type of vegetation as well. The mats of *Polytrichum* on the other hand, produce a peaty layer over the sand, which becomes so thick that it retains standing water and admits of the development of a pond society; also p. 46,54,67,72,105,133,138,147,151,160,161,162, 165,168, and plate XXI.
128. Grant, F.R., and S.M. Hague. 1931. A list of mosses from Vermilion County, Illinois. Transactions of the Illinois State Academy of Science 24:122-123. [42-M] Checklist with collection date; no specimens cited.
129. Grollé, R. 1968. Monographie der gattung *Nowellia*. Journal of the Hattori Botanical Laboratory 31:20-49. [1-11] Page 31, *N. curvifolia* from Illinois according to literature (Frye & Clark, 1945); dot map (p. 45) from east central Illinois (R-3).
130. Grout, A.J. 1896. A preliminary revision of the North American Isoetaceae. Bulletin of the Torrey Botanical Club 23:223-233. [4-M] *Climacium americanum* and *Entodon compressus* from Illinois with no counties listed, *E. seductrix* var. *lancoolata* (new variety) from Hlanging Rock, Washash Co., 3 April 1890 (J. Schneck), and *Pyliasiella subdentulata* from Athens, Menard Co. (Hall).
131. Grout, A.J. 1897. A revision of the North American Isoetaceae and Brachythecia. Memoirs of the Torrey Botanical Club 6:131-210. [4-M] Same taxa and data as Grout (1896).
132. Grout, A.J. 1898. A revision of the North American Eurhynchia. Bulletin of the Torrey Botanical Club 25:221-256. [3-M] *Bryhnia graminicolor* and *Cirriphyllum bosci* from Illinois, no county listed, no specimen cited; *Eurhynchium strigosum robustum* type loc., vicinity of Chicago (Cook Co.), dup. Columbia Univ.; p. 227,232,239.
133. Grout, A.J. 1928-1934. Moss flora of North America north of Mexico. Vol. III. 4 parts, with sections by A.J. Sharp and W.H. Welch. Published by A.J. Grout, New York (Parts 1 & 2) and Newfane, Vermont (Parts 3 & 4). 277 p. + 80 pls. [12-M] *Anacamptodon splachnoides*, *Amblystegiella minutissima*, *A. subtilis* [sic], *Brachelyma subulatum*, *Bryhnia graminicolor*, *Cirriphyllum bosci*, *Entodon seductrix* v. *lancoolata* (Wabash), *Eurhynchium strigosum* var. *robustum* (Cook - type loc.), *Fontinalis missourica* (Will), *Helodinium paludosum*, *Lindbergia brachyptera* v. *austriana* (type), and *Pyliasiella subdentulata* (Menard); some specimens cited.
134. Grout, A.J. 1933-1940. Moss flora of North America north of Mexico. Vol. II. 4 parts, with sections by A.L. Andrews, S. Flowers, G.N. Jones, G. Sayre, and W.C. Steere. Published by A.J. Grout, Newfane, Vermont. 285 p. + 115 pls. [15-M] *Bartramia pomiformis* v. *crispa*, *Bryum cernuum*, *B. pendulum*, *Discidium nudum*, *Entostodon Drummondii* [sic], *Ephemerum crassum*, *E. crassum*, *E. papillosum*, *Eunaria microstoma*, *Meesia hexasticha*, *M. longseta* (R-2), *Orthotrichum pusillum*, *Philonotis marchica*, *Physcomitrum acuminatum*, *Plagiopus uederi*, and *Pohlia carnea* (Fulton); some specimens cited.
135. Grout, A.J. 1936-1939. Moss flora of North America north of Mexico. Vol. I. 4 parts, with sections by S.A. Cain, E.J. Craig, S. Flowers, T.C. Frye, I.M. Haring, A.J. Sharp, W.C. Steere, and W.T. Wareham. Published by A.J. Grout, Newfane, Vermont. 264 p. + 129 pls. [13-M] *Acaulon rubrum*, *Alouia aloides* v. *ambigua* (Menard), *Alouia rigulosa*, *Bruchia texana*, *Desmatodon plinthosius*, *D. porteri*, *Eucalypta procerca* (Will), *E. streptocarpa* (Will), *Fissidens Hallianus* [sic] (Menard, type loc., "... on stem *Cephalanthus* with *Fissidens fontanus*, in sunken hole . . ."), *Pohlia Randii* [sic] (Cook), *Pterogonurum subessile*, and *Tortula papillosa*; some specimens cited.
136. Grout, A.J. 1943. Fissidentaceae. North American Flora 15(3):167-202 + 10 pls. [1-M] *Fissidens Hallianus* [sic] from Athens (Menard Co.), type loc., Hall.
137. Grout, A.J. 1946. Orthotrichaceae. North American Flora 15A:1-62 + 5 pls. [1-M] *Orthotrichum pusillum* from Illinois, no counties listed; no specimen cited.
138. Grunwald, C., and D. Szafoni. 1983. Revegetation study of Longwall Mine wastes in northern Illinois. Abandoned Mined Land Reclamation Council, Springfield, Illinois.

- 174 p. [2-H, 8-M, 1-S] Checklist from various mine spoil piles in Bureau (*Ceratodon purpureus*, *Dicranella heteromalla*, and *Mnium cuspidatum*), Grundy (*Ceratodon purpureus*), La Salle (*Ceratodon purpureus*), and Putnam cos. (*Aulacomnium palustre*, *Barbula unguiculata*, *Calliclidium haldanianum*, *Cephalozia bicuspidata*, *Ceratodon purpureus*, *Ditrichum pallidum*, *Jungfermannia gracillima*, *Pohlia nutans*, and *Sphagnum centrale*; (p. 20,29,30,41,42,45,55,64); vouchers at ILLS.
139. Hague, S.M. 1930. Illinois mosses. *Transactions of the Illinois State Academy of Science* 22:220-249. [264-M] Checklist treating Adams (1), Carroll (10), Champaign (37), Cook (117), Du Page (4), Fulton (117), Hancock (2), Henderson (19), Henry (4), Johnson (4), Kane (3), Kankakee (15), Lake (81), La Salle (15), Marion (14), Mason (1), McHenry (9), McLean (1), Menard (120), Ogle (16), Peoria (74), Pulaski (2), Randolph (1), Rock Island (20), Sangamon (2), Schuyler (1), Stark (10), Tazewell (1), Union (6), Wabash (1), Will (65), Winnebago (1), and Woodford (1) cos.; no specimens cited.
140. Hague, S.M. 1934. Mosses from the Illinois Ozarks. *Transactions of the Illinois State Academy of Science* 27:62-63. [74-M, 1-S] Checklist treating Hardin (3), Johnson (46), Pope (26), Saline (26), Union (14), and Williamson (1) cos.; *Sphagnum* sp. from Johnson Co.; no specimens cited.
141. Hague, S.M. 1937. Illinois liverworts. *Transactions of the Illinois State Academy of Science* 30:118-124. [5-A, 62-H] Checklist treating Carroll (0,2), Champaign (0,4), Cook (1,22), De Kalb (0,1), Du Page (0,3), Fulton (4,35), Henderson (0,1), Jo Daviess (0,1), Johnson (0,5), Kankakee (0,2), Knox (0,1), Lake (0,6), La Salle (1,8), Macon (0,1), Marion (0,1), Menard (2,33), Ogle (0,3), Peoria (3,24), Rock Island (0,3), Stark (2,2), St. Clair (2,17), Tazewell (0,2), Union (1,5), Wabash (0,5), and Will (1,5) cos.; no specimens cited, but some voucher data.
142. Hague, S.M., and R.V. Drexler. 1938. Recent collections of Illinois liverworts. *Transactions of the Illinois State Academy of Science* 31:113-114. [2-A, 29-H] Checklist treating Carroll (0,2), Champaign (0,5), Hardin (0,4), Jersey (0,1), Jo Daviess (0,6), Johnson (0,5), Lake (0,2), La Salle (0,2), Marion (0,1), McLean (0,1), Ogle (0,1), Peoria (1,1), Pope (0,1), Saline (0,7), Tazewell (1,1), Union (0,2), Vermilion (0,3), and White (0,1) cos.; specimens cited.
143. Hague, S.M., and S.A. Holmes. 1933. A report of mosses collected from Coles and Crawford counties, Illinois. *Transactions of the Illinois State Academy of Science* 25:124-126. [48-M] Annotated checklist for Coles (31) and Crawford (31) cos.; no specimens cited.
144. Hatcher, R.E. 1952. Some bryophytes of southern Illinois. *Bryologist* 55:223-227. [2-A, 26-H, 72-M, 1-S] Notes and checklist treating Jackson, Pope, and Union cos.; no Pope Co. sites or taxa listed.
145. Hatcher, R.E. 1957. The genus *Trichocolea* in North, Central and South America - (Hepaticae). *Lloydia* 20:139-185. [1-H] *T. tomentella* from Jackson and Ogle cos.; no specimens cited.
146. Hatcher, R.E. 1965. Towards the establishment of a pure culture collection of Hepaticae. *Bryologist* 68:227-231. [6-H] *Frullania eboraensis* (Randolph), *Jamesoniella autumnalis* (Randolph), *Leucolejeunea clypeata* (Randolph), *Lophocolea heterophylla* (Jackson), *Radula obovata* (Jackson), and *Scapania nemorosa* (Pope); specimens cited.
147. Hatcher, R.E. 1967. Experimental studies of variation in Hepaticae. I. Induced variation in *Lophocolea heterophylla*. *Brittonia* 19:178-201. [1-H] Two populations from Jackson Co., with culturing information, illustrations, tables, and results from different media under uniform environmental regimes.
148. Hattori, S. 1972. *Frullania tamarisci*-complex and the species concept. *Journal of the Hattori Botanical Laboratory* 35:202-251. [1-H] *F. tamarisci* subsp. *asagrayana* from Illinois, no county listed; no specimen cited (p. 232).
149. Haupt, A.W. 1921. Embryogeny and sporogenesis in *Reboulia hemisphaerica*. *Botanical Gazette* 71:446-453. [1-H] From Cook and Stephenson cos. (p. 446); no voucher cited.
150. Henderson, L.B. 1929. The plants of Castle Rock. A preliminary report. *Transactions of the Illinois State Academy of Science* 21:144-151. [2-H, 2-M] *Conocephalum*, *Grimmia*, *Polytrichum juniperinum*, and *Reboulia* from Ogle Co.; no specimens cited.
151. Hill, E.J. 1886. A botanical diary. *Botanical Gazette* 11:183-184. [1-M] *Wessa viridula* [sic] from Cook Co.; no specimen cited.
152. Hill, E.J. 1902. *Fissidens grandifrons*, its habits and propagation. *Bryologist* 5:56-58. [1-M] From La Salle Co.; July 1901.
153. Hill, E.J. 1903. Branched paraphyses of *Bryum roseum*. *Bryologist* 6:80-81. [1-H, 2-M] From Du Page Co. in association with *Atrichum angustatum* and *Porella platyphylla*; no specimens cited.
154. Hill, E.J. 1905. *Encalypta procerca* Brid. *Bryologist* 8:107-110. [1-H, 2-M] From Will Co. in association with *Brachythecium* and *Reboulia*; no specimens cited.
155. Hill, E.J. 1907. The validity of some species of *Fissidens*. *Bryologist* 10:67-74. [9-M] *Fissidens bryoides* and *F. inconstans* from Cook Co.; *Gymnostomum calcareum* from Will Co.; *Amblystegium varium*, *Anomodon*, *Dicranella heteromalla*, *F. cristatus*, *F. synoicus*, and *Mnium cuspidatum* from Illinois, no counties listed; no specimens cited.
156. Hill, E.J. 1909. Note on *Amblystegium naterophilum*. *Bryologist* 12:108-109. [4-M] *Amblystegium irriguum spinifolium* and *A. naterophilum* from Cook Co.; *A. naterophilum*, *A. riparium*, and *Drepanocladus aduncus* from Will Co.; no specimens cited.
157. Hill, E.J. 1910. Charles R. Barnes and Julius Röhl's collections of mosses in North America. *Bryologist* 13:105-107. [1-M, 1-S] *Dicranum Bojeanii* var. *alatum* [sic] and *Sphagnum* from Cook and/or Lake cos.; no specimens cited.
158. Hill, E.J. 1912. Characteristic features of the lake and peat-swamp flora of Lake County, Illinois. IV. The peat swamp flora, special features. Pages 338-352. in J. Halsey (ed.), *A history of Lake County, Illinois*. R.S. Bates, Publisher, Thomson, Illinois. 872 p. [1-M, 1-S] *Polytrichum strictum* and *Sphagnum* "many colors"; no specimens cited or vouchers mentioned.
159. Hill, E.J. 1914. Notes on the distribution of *Polytrichum strictum* and some associated sphagna. *Bryologist* 17:63-64. [2-M, 4-S] *Aulacomnium palustre*, *Polytrichum strictum*, *Sphagnum Acutifolium* [sic], *S. fuscum*, *S. rubellum*, and *S. warnstorfi* from Lake Co.; no specimens cited.
160. Hill, E.J. 1915. *Fontinalis umbackii* Cardot. *Bryologist* 18:10-12. [1-M] From Will Co.; no specimen cited.
161. Hill, E.J. 1916. Notes on *Funaria*. *Bryologist* 19:35-37. [2-H, 1-M] *Funaria americana*, *Grimmia fragrans*, and *Reboulia hemisphaerica* from Will Co.; no specimens cited.
162. Holferty, G.M. 1904. The archegonium of *Mnium cuspidatum*. *Botanical Gazette* 37:106-126. [1-M] From Cook and La Salle cos. (p. 106); no specimens cited.
163. Holzinger, J.M. 1905. Some recently described North American Polytricha. *Bryologist* 8:29-31. [1-M] *Polytrichum decipiens* from Cook Co., Röhl 1811, 1815, 1888.
164. Homoya, M.A. 1977. Distribution and ecology of the genus

- Isotria* in Illinois. M.S. thesis. Southern Illinois University, Carbondale. vi + 104. [6-M, 1-S] *Atrichum angustatum*, *Climacium americanum*, *Dicranum sporarium*, *Mnium cuspidatum*, *Sphagnum* sp., and *Thuidium delicatulum* from Randolph Co.; *Leucobryum glaucum* and *Sphagnum* sp. from Pope Co.; incomplete title for figure 7 (p. 88), assumed to be for *I. medeloides*; no specimens cited.
165. Hopkins, C.E.O. 1969. Vegetation of fresh-water springs of southern Illinois. *Castanea* 34:121-145. [2-A, 10-H, 23-M] From Gallatin (1,4,7), Hardin (0,1,4), Pope (1,2,10), and Union (2,7,12); "52 bryophytes"; but only 35 listed in article; community ecology, site maps, no specimens cited but vouchers at SIU; some inaccurate topographic data; reprint, with some omissions, of Ott (1968).
166. Horton, D.G. 1983. A revision of the Encalyptaceae (Musci), with particular reference to the North American taxa. Part II. *Journal of the Hattori Botanical Laboratory* 54:533-532. [1-M] *Encalypta protera* from R-2; dot map (p. 396); no specimen cited.
167. Horton, D.G., and D.H. Vitt. 1976. Morphological characters, relative to distribution, and taxonomic considerations of the genus *Climacium* in North America. *Canadian Journal of Botany* 54:1872-1883. [1-M] *C. americanum* from Illinois; p. 1874 and 1876 (Fig. 1 and 2) dot map with three populations (R-2,3,5); p. 1882 (Fig. 25) range map encompassing all of Illinois; specimens examined but not cited.
168. Howe, M.A. 1897. The North American species of *Porella*. *Bulletin of the Torrey Botanical Club* 24:512-528. [1-H] *P. pinnata* from Illinois (Schneck), [probably Wabash Co.].
169. Huett, J.W. 1898. Musci and Hepaticae, mosses and liverworts. Pages 150-152 in J.W. Huett (ed.), An essay toward a natural history of La Salle County, Illinois. Part II - Geology and Zoology. Fair-Dealer, Ottawa, Illinois. [vii] + 174 p. [2-H, 20-M, 1-S] Annotated checklist with specimens cited.
170. Husa, J.G. 1956. Mosses of the campus woods. M.S. thesis. Northern Illinois University, De Kalb. 26 p. [11-M] *Amblystegium serpens*, *A. varium*, *Atrichum angustatum*, *Dicranum fuscescens* (?), *Fissidens taxifolius*, *Lepidodictyum riparium*, *L. trichopodium*, *Leskea gracilescens*, *Mnium cuspidatum*, *Physcomitrium turbinatum*, and *Rhynchostegium serrulatum* from De Kalb Co., with habitat data; no vouchers mentioned.
171. Ireland, R.R. 1966. A taxonomic revision of the genus *Plagiothecium* for North America, north of Mexico. Ph.D. dissertation. University of Washington. [v] + vi+ 159 p. [6-M] *Isopterygium borrierianum* (Pope), *I. deplanatum* (Tazewell and on dot map from Clark, Cook, Fulton, and Menard), *I. taxirameum* (Clark), *Plagiothecium denticulatum* (Cook), *P. roseanum* (Cook), and *Sharpiella turfacea* (dot map from R-3); specimens cited: p. 42,45,70,101,110,152,153,155,156.
172. Ireland, R.R. 1969. Taxonomic studies on the genus *Atrichum* in North America. *Canadian Journal of Botany* 47:353-368. [1-M] *A. altecrisatum* from Peoria Co. (*Chase 1120*).
173. Ireland, R.R. 1969. A taxonomic revision of the genus *Plagiothecium* for North America, north of Mexico. *Publications in Botany*, No. 1. National Museums of Canada. National Museum of Sciences, Ottawa. viii + 118 p. [7-M] Descriptions, keys, specimens cited, dot maps, and excellent illustrations; *Isopterygium distachnum* (Jackson), *I. elegans* (Pope), *Plagiothecium denticulatum* (Cook), *P. roseanum* (Cook), *Sharpiella turfacea* (R-3), *Taxiphyllum deplanatum* (Tazewell, Vermilion, R-2), and *T. taxirameum* (Clark, Vermilion, R-3).
174. Ireland, R.R. 1982. Moss flora of the Maritime Provinces. *Publications in Botany*. No. 13. National Museums of Canada. National Museum of Sciences, Ottawa. 738 p. [20-M, 4-S] *Atrichum tenellum*, *Climacium dendroides*, *Desmatodon cernuus*, *D. randu*, *Dicranum polysetum*, *Orthotrichum anomalum*, *Polystichum longisetum*, *P. strictum*, *Tortella tortuosa*, and *Tortula papillosa* from Illinois, no counties listed; some of the reports from literature; no specimens cited.
175. Ireland, R.R., and L.M. Ley. 1984. Type specimens of bryophytes in the National Museum of Natural Sciences, National Museums of Canada. *Sylloges* 47:1-69. [2-M] *Conomitrium hallianum* isotype collected by E. Hall; *Leskea austrii* isotype from Fulton Co. collected by Wolf (CANM 197589).
176. Ireland, R.R., and N.G. Miller. 1982. *Grimmia anodon* (Musci: Grimmiaceae) in North America north of Mexico. *Bryologist* 85:112-114. [1-M] From Hancock Co., O'Flaherty 1972 (MICH), on granite and concrete tombstone; dot map.
177. Isenbarger, J. 1934. A contrast of plant habitats with reference to hydrogen-ion concentration and plant distribution. *Transactions of the Illinois State Academy of Science* 25:126-128. [2-S] *Sphagnum* from Lake Co.; *S. acutifolium* from Cook Co.; no specimens cited.
178. Jackson, S.T. 1978. A Middle Illinoian florule from southeastern Jackson County, Illinois. M.S. thesis. Southern Illinois University, Carbondale. viii + 88 p. [M] Unnamed; "representative fossil moss gametophytes" (p. 79, fig. 13-16).
179. Jackson, S.T., and N.G. Miller. 1983. Paleoecology of a fossil plant assemblage from a pre-Wisconsinan till in southern Illinois. *American Midland Naturalist* 109:120-135. [1-H, 32-M, 2-S] List of fossil bryophytes from Indian Creek, Jackson Co.; no specimens cited; *Calliergon trifarium*, *Distichium capillaceum*, *Hylocomium splendens*, *Scorpidium scorpioides*, and *Tomentohypnum nitens*; useful comments on habitats of taxa and criteria used to identify material.
180. James, T.P. 1864. Article V. On new mosses. *Transactions of the American Philosophical Society* 8:105-116. [2-M] *Phascum schimperianum* on bare ground from upper Illinois; *Potna subsessilis* on bluffs along Sangamon River (R-3); both collected by E. Hall, but location of vouchers not given.
181. Jansen, D.B.F. 1979. A survey of the bryophytes of the southern two-thirds of Fulton County, Illinois. M.S. thesis. Western Illinois University, Macomb. vi + 65 p. [1-A, 10-H, 79-M] Annotated checklist with vouchers at MWI; *Hypohypnum luridum* and *Orthotrichum anomalum*.
182. Janssens, J.A. 1983. Past and extant distribution of *Drepanocladus* in North America, with notes on the differentiation of fossil fragments. *Journal of the Hattori Botanical Laboratory* 54:251-298. [1-M] *D. aduncus* var. *aduncus* from R-3; "... fossil report west central IL... extant in central IL..."; no specimens cited.
183. Jennings, O.E. 1951. A manual of the mosses of western Pennsylvania and adjacent states. 2nd ed. *American Midland Naturalist*, Monograph No. 6 [vii] + 396 p. [11-M] *Amblystegella minutissima*, *A. subtilis*, *Anacamptodon splachnoides*, *Bryum uliginosum*, *Disclium nudum*, *Ephemerum crassinervium*, *Helodium paludosum*, *Octodeceras Hallianum* [sic], *Plagiopus oederi*, *Pohlia carnea*, and *Platyia subdenticulata* from Illinois, no counties given; no specimens cited.
184. Jester, J. and C.B. Arzeni. 1973. Settlement mosses of Lincoln's time. *Outdoor Illinois* 12(2):14-18. [19-M] General information about common Coles Co. species; illustrations and economic utility; no vouchers mentioned.
185. Jones, G.N. 1961. The discovery of *Merceya* in Illinois. *Bryologist* 64:263-265. [1-M] *M. ligulata* from La Salle Co., *Chase 12810* (CANM, ILL).
186. Keim, L.L. 1967. The distribution of mosses and some ecological aspects of the Sherrard Woods in Mercer County near Moline, Illinois. M.S. thesis. Western Illinois Uni-

- versity, Macomb. vi + 48 p. [16-M] Ecological notes and annotated checklist (p. 24), vouchers at WIU.
187. Kibbe, A.L. 1952. A botanical study and survey of a typical midwestern county (Hancock County, Illinois) covering a period of 119 years, from 1833 to 1952. Published by the author, Carthage, Illinois. [v] + 425 p. [1-H] *Riccia natans* (p. 65), no specimen cited; "... liverworts and mosses of Hancock County have never been given adequate attention."
188. Kibbe, A.L. (ed.). 1953. *Afield with plant lovers and collectors*. Published by the editor, Carthage College, Carthage, Illinois. [xii] + 565 p. + [appendix]. [5-M] *Anacamptodon splachnoides*, Hypni, and Mniums from Fulton Co.; *Fumeria* [sic] *microstoma* from Henderson Co.; *Phasceae triquetrum* from Menard Co.; series of letters from E. Hall to H.N. Patterson; several excellent passages on the study of cryptogams; p. [9] of the appendix has list of Musci collected near Oquawka, Henderson Co., Patterson (1874): p. 304,306,308,311,312.
189. Klopmeier, M.J. 1981. A key to the Hepaticae of Coles and Clark Counties, Illinois. M.S. thesis. Eastern Illinois University, Charleston. v + 73 p. [2-A, 45-H] Descriptions and some illustrations, no vouchers mentioned; *Lophozia bicrenata* and *L. incisa*.
190. Koponen, T. 1971. A monograph of *Plagiomnium* Sect. *Rosulata* (Mniaceae). *Annales Botanici Fennici* 8:305-367. [3-M] *P. ciliare* from Adams, Clark, Hancock, and Menard Cos. plus three collections without specific location data; *P. medium* from La Salle and Whiteside cos. plus one collection without county; and *P. rugicum* from Cook, Lake, Putnam, and Tazewell cos. plus one collection with specific collection site; dot and range maps; specimens cited.
191. Koponen, T. 1972. Speciation on the Mniaceae. *Journal of the Hattori Botanical Laboratory* 35:142-154. [3-M] *Plagiomnium affine ciliare*, *P. medium*, and *P. rugicum* from Illinois on shaded range map; no specimens cited.
192. Koponen, T. 1973. *Rhizomnium* (Mniaceae) in North America. *Annales Botanici Fennici* 10:1-26. [1-M] *R. punctatum* ssp. *chlorophyllum* from Clark Co. Vaughn 105 (MICH).
193. Kurz, H. 1928. Influence of *Sphagnum* and other mosses on bog reactions. *Ecology* 9:56-59. [7-M, 2-S] From Lake Co.; no mention of vouchers; *Amblystegium riparium*, *Aulacomnium palustre*, *Calliergon cuspidatum*, *Drepanocladus aduncus*, *Leucobryum glaucum*, *Sphagnum acutifolium*, *S. cymbilifolium*, *Stereodon pratensis*, and *Thuidium delicatulum*.
194. Lawton, E. 1971. Moss flora of the Pacific northwest. Supplement No. 1 of *Journal of the Hattori Botanical Laboratory*, Nichinan, Miyazaki, Japan. xiii + 363 p. + 195 pl. [15-M] From Illinois, no counties listed; no specimens cited; *Amblystegium noterophilum*, *A. trichopodium* var. *trichopodium*, *Calliergon cordifolium*, *Brachythecium rivulare*, *Cratoneuron filicinum*, *Dicranella varia*, *Dicranum polysetum*, *Disceum nudum*, *Eunaria americana*, *Isoeterygium elegans*, *I. turfaceum*, *Mesia longiseta*, *Orthotrichum pumilum*, *Plagiothecium denticulatum*, and *P. roseanum*.
195. Lazarenko, A.S. 1974. Some considerations on the nature and behavior of the relict moss *Desmatodon randii*. *Bryologist* 77:474-477. [1-M] From Chicago (Cook Co.) by Warham (1939), one of four locations in North America; no specimen cited.
196. Lesquereux, L., and T.P. James. 1879. Descriptions of some new species of North American mosses. *Proceedings of the American Academy of Arts and Sciences* 3:133-141. [1-M] Page 136, *Weisia wolfii* on the ground at Canton (Fulton Co.), J. Wolf.
197. Lesquereux, L., and T.P. James. 1884. *Manual of the mosses of North America*. S.E. Cassino and Co., Boston. v + 447 p. + 6 pls. [15-M] *Amblystegium minutissimum*, *Barbula ambigua* (Menard), *Bruchia berychiana*, *Bryum atropurpureum*, *Cryphaea inundata* [White], *Dicranoweisia cirrhata* (Menard), *Fabronia octoblepharis* (Menard), *Funaria microstoma*, *Microbryum floerkeanum*, *Orthotrichum fallax* var. *truncatulum*, *Physcomitrium acuminatum*, *Pottia subsessilis*, *Sphaerangium schimperianum* (Menard), and *Weisia wolfii* (Fulton); some specimens cited.
198. Lewinsky, J. 1974. The genera *Leskeella* and *Pseudoleskeella* in Greenland. *Bryologist* 77:601-611. [1-M] *Leskeella nervosa* from R-1,2 according to shaded range map; no specimens cited, based on specimens seen and literature reports, but not listed.
199. Lopinot, A.C. 1965. A survey of Illinois aquatic plants. 1964-1965. Illinois Department of Conservation Special Fisheries Report No. 11, Springfield. 22 p. [1-H, 1-M] *Fissidens* and *Riccia fluitans* from Illinois (p. 6,8), no counties listed; no specimens cited.
200. Manuel, M.G. 1973. Studies in Cryphaeaceae I. A revision of the genus *Cryphaea* in North America north of Mexico. *Bryologist* 76:144-162. [1-M] *C. glomerata* from Illinois, Hall (F), no county listed; p. 147,154.
201. Maravolo, N.C., E.D. Garber, and P.D. Voth. 1967. Biochemical changes during sexual development in *Marchantia polymorpha*: I. Esterases. *American Journal of Botany* 54:1113-1117. [1-H] From Ogle Co.; no specimen cited.
202. Martin, S.M. 1977. Oil bodies of selected leafy liverworts of east central Illinois. M.S. thesis. Eastern Illinois University, Charleston. vii + 59 p. [23-H] From Clark and Coles cos.; descriptions and table, with excellent color photomicrographs; no specimens cited, but vouchers at EU; *Scaparia curta* [?].
203. Matten, L.C. 1971. Upper Cretaceous flora of Illinois - A preliminary survey. *American Journal of Botany* 58:470. [1-H] From R-5, no specimen cited; "... one fragment reveals the presence of an encrusting liverwort conforming to the Metzgeriales.;" abstract.
204. McBroom, R.L. 1977. The peristome teeth of selected genera of acrocarpous Musci of east central Illinois. M.S. thesis. Eastern Illinois University, Charleston. iii + 82 p. [19-M] From Clark and Coles cos.; illustrations and descriptions; no specimens cited.
205. McCleary, J.A., and P.L. Redfearn, Jr. 1979. Checklist of the mosses of Illinois. *Transactions of the Illinois State Academy of Science* 72(2):28-51. [321-M, 20-S] Checklist by county and region with distribution map for percentage of total species count in each county; nice bibliography; no specimens cited; contains some questionable reports (e.g., *Brachythecium collinum*, *Fabronia wrightii*, and *Hypnum subim-panses*); see McKnight #207.
206. McGee, W.J. 1891. The Pleistocene history of northeastern Iowa. 11th Annual Report of the U.S. Geological Survey. Part 1:189-577. [1-M] *Dichelyma* from La Salle Co. (p. 537), identified by T.P. James; no specimen cited.
207. McKnight, B.N. 1982. *Nardia lescurei*, new to Illinois. *Bryologist* 84:358. [1-H, 1-M] From Clark Co. (826 ILL) in association with *Anomodon rostratus*.
208. McKnight, B.N. 1985. Notes on the Illinois bryophytes. I. *Evansia* 2:36-38. [2-H, 10-M] Additions and correction to the state bryoflora, with comments on *Bruchia* and the publication of Wolf & Hall (1878) and McCleary & Redfearn (1979); *Bryum klinggraeffii* (Champaign), *B. muehlenbeckii* (Pope), *Calliergon giganteum* (Lake), *Catocopium nigratum* (Cook, McHenry), *Distichium capillareum* (Jackson, Jo Daviess), *Ditrichum lineare* (Clark), *Dumortiera hirsuta* (Pope), *Grammia plagiopoda* (Champaign), and *Scorpidium scorpioides* (Jackson, McHenry); specimens cited, vouchers at DUKE, ILLS, and MICH.

209. McKnight, B.N. 1986. The bryophytes of Champaign County, Illinois. *Transactions of the Illinois State Academy of Science* 79:35-52. [16-H, 106-M] Annotated checklists including 13 unconfirmed previous reports; habitat and frequency given; specimens cited (mostly at ILL and ILLS); discussion and map of presettlement vegetation; some taxa being maintained in axenic culture.
210. McKnight, B.N. 1986. Notes on the bryophytes of Indiana. I. Proceedings of the Indiana Academy of Science 95:101-107. [4-M] Specimens cited; *Brachylema subulatum*, *Catoscopium nigratum*, *Ditichium capillaceum*, and *Syrrophodon texanus*.
211. McKnight, B.N., and C.B. Arzeni. [In Prep.] The bryophytes of Rocky Hollow, Clark County, Illinois. *Transactions of the Illinois State Academy of Science*. [A, H, M, S] Annotated checklist, specimens cited, vouchers at ILLS; *Dictyon viride*, *Hookeria acutifolia*, *Ditrichum lineare*, *Nardia lescurii*, and *Ptilium crista-castrensis*.
212. Meyer, S.L. 1941. Physiological studies on mosses. II. Spore longevity in *Physcomitrium turbinatum* and *Funaria hygrometrica*. *Bryologist* 44:69-75. [1-M] *Physcomitrium turbinatum* from Illinois (1899, 1903) no county listed; vouchered at Johns Hopkins University Herbarium; cultivation information.
213. Miller, M.W. 1962. Nutritionally deficient mutants of *Marchantia polymorpha* L. Ph.D. dissertation. University of Chicago. ii + 34 p. [1-H] From Rock River clone 9 miles south of Oregon (Ogle Co.), no date or mention of voucher; culturing technique and data.
214. Miller, M.W., E.D. Garber, and P.D. Voth. 1962. Nutritionally deficient mutants of *Marchantia polymorpha* induced by X-rays. *Botanical Gazette* 124:94-102. [1-H] Gemmae harvested from Rock River clone collected by P. Voth 9 miles south of Oregon (Ogle Co.); no voucher mentioned.
215. Miller, N.G. 1979. Paleoecological comments on fossil mosses in a buried organic bed near Peoria, Tazewell County, Illinois. Page 116 in Wisconsinan, Sangamonian, and Illinoian stratigraphy in central Illinois. Illinois State Geological Survey Bulletin, Guidebook No. 13. 138 p. [5-M] *Bryum pseudotriquetrum*, *Campylopus stellatum*, *Drepanocladus aduncus* var. *polycarpus*, *D. revolvens*, and *Mnium affine* var. *rugicum*; no specimens cited.
216. Miller, N.G. 1980. Quaternary fossil bryophytes in North America: catalog and annotated bibliography. *Journal of the Hattori Botanical Laboratory* 47:1-34. [5-M] *Calliergonella* (R-3), *Dicbelyna* (R-3), *Drepanocladus* (R-3), *Hypnum* (Cook), and *Plagiothecium cavifolium* (McHenry); no specimens cited.
217. Miller, N.G. 1984. Tertiary and Quaternary fossils. Chapter 20. Pages 1194-1232 in R.M. Schuster (ed.), Vol. 2, *New Manual of Bryology*. Hattori Botanical Laboratory, Nichinan, Miyazaki, Japan. 1295 p. [8-M] *Bryum pseudotriquetrum*, *Campylopus stellatum*, *Cinclidium stygium*, *Drepanocladus aduncus* var. *polycarpus*, *D. revolvens*, *Hypnum lindbergii*, *Plagiommium*, and *Scorpidium turgescens* from Tazewell Co.; all except *Cinclidium* and *Plagiommium* also from Jackson Co.; plus 21 other unnamed species; no specimens cited; histogram comparing lengths of moss fossils; p. 1211, 1212, 1214.
218. Miller, N.G. 1985. Fossil evidence of the dispersal and establishment of mosses as gametophyte fragments. *Monographs in Systematic Botany, Missouri Botanical Gardens* 11:71-78. [8-M] Late Pleistocene deposit, Gardena section moss bed, Tazewell Co., 55cc sample of Woodfordian interstadial Wisconsinan peat moss dated at 19,680 years \pm 460; accumulated at time of spruce dominance; evidence of rich fens; continuous presence of calcareous groundwater; *Bryum pseudotriquetrum*, *Campylopus stellatum*, *Cinclidium stygium*, *Drepanocladus aduncus* s.l., *D. revolvens*, *Hypnum lindbergii*, *Mnium medium*, and *Scorpidium turgescens* (with abundant vegetative propagules); Fig: d-e *Scorpidium*, fragile bud and proliferated leafy stems.
219. Mohlenbrock, R.H. 1968. A floristic study of Bell Smith Springs, Pope County, Illinois. *Transactions of the Illinois State Academy of Science* 61:53-79. [1-M] *Grimmia* spp. (p. 58), the vegetation on the summit of the sandstone escarpment in the aboriginal zone consists mainly of lichens and mosses; no vouchers mentioned.
220. Mohlenbrock, R.H. 1968. A walk in Giant City. *Outdoor Illinois* 12(3):20-23. [1-H] *Conocephalum* from Union Co.; no voucher mentioned.
221. Mohlenbrock, R.H. 1982. Seep springs of the Cretaceous Hills. *Illinois Audubon Bulletin* 201:24-26. [1-S] *Sphagnum* from Pope Co.; no specimen cited.
222. Mohlenbrock, R.H., and J.W. Voigt. 1959. A study of the filmy fern *Trichomanes boschianum*. *American Fern Journal* 49:76-85. [6-H, 4-M] From Pope Co. in association with the filmy fern; nebulous about vouchers; (p. 81) *Bazzania trilobata*, *Calypogria Trichomanes* [sic], *Diphyscium foliosum*, *Leucobryum glaucum*, *Leucolejeunea clypeata*, *Pellia diphylla* [sic], *Plagiogchila asplenoides*, *Scapania nemorosa*, *Tetraphis pellucida*, *Thuidium delicatulum*, "and numerous others."
223. Mohr, C. 1901. Plant life of Alabama. Contribution from the U.S. National Herbarium VI:1-921. [3-H, 2-M] Obtained from literature, no counties given; *Bryum bicolor*, *Odontoschisma sphagni*, *Pleuridium alternifolium robustum*, *Reboulia hemisphaerica*, and *Riccia lutescens*; no specimens cited; p. 284-309.
224. Montgomery, C.E. 1930. Ecology of mosses of the Grand de Tour region of Illinois with special reference to pH relations. Ph.D. dissertation. University of Chicago. 45 p. [1-H, 62-M] From Ogle Co.; no specimens cited; *Mnium hornum*, *Encalypta ciliata*, and *Hylacomium triquetrum*; reprinted, with some omissions in Montgomery (1931).
225. Montgomery, C.E. 1931. Ecology of mosses of the Grand de Tour region of Illinois with special reference to pH relations. *Botanical Gazette* 91:225-251. [1-H, 62-M] From Ogle Co.; no specimens cited.
226. Morrow, J.S. 1952. Initial report on the mosses of McDonough County, Illinois. *Transactions of the Illinois State Academy of Science* 45:31. [17-M] Vouchers at WIU and in author's collection; all specimens checked by H.S. Conard but none cited; "clay pits" were chief collecting grounds.
227. Moser, J.W. 1970. An ultrastructural study of spermatogenesis in *Phaeoceros laevis* subsp. *carolinianus*. Ph.D. dissertation. University of Illinois, Urbana-Champaign. iv + 84 p. [1-A] From Johnson Co.; no voucher mentioned.
228. Moser, J.W., J.G. Duckett, and Z.B. Carothers. 1977. Ultrastructural studies of spermatogenesis in the Anthocerotales. I. The blepharoplast and anterior mitochondrion in *Phaeoceros laevis*: early development. *American Journal of Botany* 64:1097-1106. [1-A] *P. laevis* subsp. *carolinianus* from Johnson Co.; no voucher mentioned.
229. Neal, E.E. 1969. A floristic survey of Lake Vermont Park, McDonough County, Illinois. M.S. thesis. Western Illinois University, Macomb. vi + 125 p. [3-H, 13-M] Annotated checklist (p. 119-121); *Harpanthus scutatus* and *Mnium drummondii*.
230. Nees von Esenbeck, [C.G.D.]. [1834]. Verzeichniss der pflanzen welche der Prinz Maximilian von Wied von seiner Reise am obern Missouri mit zuruckbrachte. [Published privately by author.] 28 p. [1-M] *Cryphaea inundata* (p. 27) "In ramis fructibus inundatis ad flumina... Decembre fructu maturo"; fruiting on inundated branches (in the Fox and Wabash rivers, White Co.) with mature fruits in December;

also reported from the Black River which, contrary to Nees von Esenbeck, and Welch (1960), is not in Illinois but Posey Co., Indiana (see McKnight #209).

231. Nelson, N.L.T. 1911. Archeonatae - Bryophyta - (Hepaticae) (Muscii). Pages 24-29 in W.W. Ohlweiler, et al., A preliminary checklist of the cryptogams and phanerogams in the vicinity of Saint Louis, Missouri. Engelmenn Botanical Club, Saint Louis, Missouri. 63 p. [1-H, 13-M] *Amblystegium orthocladon*, *A. serpens*, *A. varium*, *Brachythecium cyrtophyllum*, *Dicranella debilis*, *D. heteromalla*, *D. varia*, *Funaria flavicans* (= *F. hygrometrica*), *Leskea gracilescens*, *Marchantia polymorpha*, *Mnium cuspidatum*, and *Physcomitrium australe*; from Madison Co., specific sites listed; no specimens cited.
232. Nishimura, N., and S. Inoue. 1985. A cytotoxicological study of the genus *Ctenidium* (Muscii). *Hikobia* 9:229-234. [1-M] *C. malacodes* (= *C. molluscum* of North American material) from Coles Co., McKnight 3100, (n=8) mitotic count.
233. O'Flaherty, L.M. 1978. *Sphagnum centrale* new to Illinois. *Bryologist* 81:613-614. [1-S] From Lake Co., McFeely 27 (MICH, MWI).
234. O'Flaherty, L.M., and G.W. Freeman. 1979. Eleven mosses new to Illinois. *Bryologist* 82:609-612. [1-A, 19-H, 124-M, 1-S] From Hancock Co.; notes and checklist, specimens cited only for 11 state records, vouchers at WARK: *Atrichum tenellum* [?], *Brachythecium reflexum*, *Grimmia anodon*, *Orthotrichum anomalum*, *Sphaerocarpaceus texanus*, and *Sphagnum capillifolium* var. *tenerum*.
235. O'Flaherty, L.M., J.D. Ives, and A.R. Ozimek. 1975. *Sphagnum fimbriatum* new to Illinois. *Bryologist* 78:455-458. [2-H, 10-M, 2-S] From Clark (0,0,1), Lake (0,4,1), and McDonough (2,8,2) cos.; some specimens cited, vouchers of sphagna at SMS and all taxa at MWI.
236. O'Hanlon, M.E. 1928. Notes on *Reboulia hemisphaerica*. *Bryologist* 31:47-51. [1-H] From Cook Co.; no specimen cited.
237. O'Hanlon, M.E. 1930. Gametophyte development in *Reboulia hemisphaerica*. *American Journal of Botany* 17:765-769. [1-H] From Cook Co.; no specimen cited.
238. Ott, C.E. 1968. Vegetation of fresh-water springs in southern Illinois. M.A. thesis. Southern Illinois University, Carbondale. iv + 86 p. [2-A, 13-H, 37-M] Annotated checklist (p. 56-60), site maps, vouchers at SIU but no specimens cited; some inaccurate topographic data; reprinted with some omissions in Hopkins (1969).
239. Paolillo, D.J., Jr., and E.A. Bazzaz. 1968. Photosynthesis in sporophytes of *Polytrichum* and *Funaria*. *Bryologist* 7:335-343. [1-M] *F. hygrometrica* from Champaign Co.; no voucher mentioned.
240. Papp, C. 1933. Contribution à la Monographie du *Polytrichum juniperinum* Willd. *Revue Bryologique et Lichénologique* 60:154-170. [1-M] *P. juniperinum* var. *rubrum* from Illinois, no county listed; no specimen cited; p. 163.
241. Parker, A. 1985. A botanical investigation of Pounds Hollow, Gallatin County, Illinois. M.S. thesis. Southern Illinois University, Carbondale. vii + 122 p. [40-H, 58-M] Annotated checklist for Gallatin Co. (p. 42-44, Appendices 4 and 5), vouchers at SIU, SMS, and/or author's collection; 58 mosses listed but only 46 found during this study, 31 liverworts listed "and five additional species will be added to the flora when these [sic] are determined"; specimens cited for most taxa, frequency ratings: *Grimmia laevigata*, *Metzgeria conjugata*, and *Syrrophodon texanus*.
242. Patterson, H.N. 1874. A list of plants collected in the vicinity of Oquawka, Henderson County, Ills. Oquawka Spectator Print. 18 p. [37-M] Checklist (p. 18) determined by Dr. James; but no specimens cited.
243. Penny, N.D. 1974. A systematic study of the family Borciidae (Mecoptera). Ph.D. dissertation. University of Kansas, Lawrence. iv + 162 p. [2-M] "*Borrus brumalis* larvae can be collected at any time of the year in their southern Illinois habitats, where they are found tunneling just beneath the rhizoids of *Dicranella heteromalla* and *Atrichum angustatum*. In the same areas, larvae and adults are most frequently collected on moss on sandy loam soil rather than mossy rocks, as are other species in other areas." (p. 60).
244. Penny, N.D. 1977. A systematic study of the family Borciidae (Mecoptera). The University of Kansas Science Bulletin 51:141-217. [2-M] Page 189, exact quote from p. 60 of Penny, 1974.
245. Pepon, H.S. 1909. The cliff flora of Jo Daviess County, Illinois. *Transactions of the Illinois State Academy of Science* 2:32-37. [3-H] "Many rock mosses form green matted layers covering the rock face, . . . with numerous algae intermixed, particularly *Spirogyra* species, *Marchantia* and *Lunularia* [misdetermined] or, less abundantly, *Conocephalus* [sic], are liverwort forms that often clothe the great spaces with a solid green covering and winter or summer are obtainable for purposes of study or collection." (p. 34); *Marchantia* (p. 37); no vouchers mentioned.
246. Pepon, H.S. 1927. An annotated flora of the Chicago area. *Chicago Academy of Science Bulletin, Natural History Survey VIII*, xxii + 554 p. [M, 14-S] From Cook Co. but only one species listed; no vouchers mentioned; p. 24, ". . . various mosses are abundant"; p. 77, "The pin oak in the sand region is commonly associated in its ground flora with ericaceous shrubs . . . also with species of *Sphagnum* or peat moss, that do not always require the wettest conditions, such as *Sphagnum compactum* DC."; p. 88, "Of about sixteen species of *Sphagnum* that I have detected from the vicinity of the Des Plaines River southwest of Berwyn to the neighborhood of Michigan City [Indiana], all but one or two are in the region from Thornton eastward."; p. 92, ". . . having collected and studied the mosses of the district quite extensively, especially in their soil relations, the evidence or preference for calcareous or silicious conditions as given in works on bryology is not conclusive."; also p. 89 and 90.
247. Peterson, W. 1977. Clarification of the nomenclature of *Dicranum condensatum*. *Bryologist* 80:365-368. [1-M] From R-5 on dot map; no specimen cited.
248. Pfeiffer, N.E. 1914. Morphology of *Thismia americana*. *Botanical Gazette* 57:122-135 + 11 pl. [1-H, 1-M] From Cook Co., observed in 1912 but no mention of voucher; p. 124, ". . . *Aneura pinguis* and *Hypnum* [probably *Drepanolada*] in association with *Thismia* in low prairie. Usually the *Thismia* grows in spots where the soil is not closely covered by *Aneura* and *Selaginella* but it may be found occasionally among the moss (Fig. 3)."
249. Proskauer, J. 1957. Studies on Anthocerotales V. 10. On a polyploid *Anthoceros* and the karyotypes of liverworts. *Phytomorphology* 7(2):130-133. [1-A] *Notothylas orbicularis* from Illinois, no county given; no specimen cited; count not certain.
250. Pursell, R.A. 1957. A taxonomic revision of North American *Fissidens*, section *Bryoidium*. Ph.D. dissertation. Florida State University, iii + 115 p. + pl. IX. [2-M] Page 78, *F. pusillus* from Clark Co., Vaughn 42 as *F. incurvus*; p. 97, *F. viridulus* var. *brevifolius* from Will Co., Hill (NY) as *F. synoicus* and Hill (NY) 1899.
251. Rastorfer, J.R. 1981. Composition and distribution patterns of bryophytes at a reclaimed surface mine in Grundy County, Illinois, with a list of vascular plants. *Argonne National Laboratory/Land Reclamation Program - 16*, Argonne, Illinois. 75 p. [1-A, 6-H, 38-M, 1-S] Includes taxa previously reported by Zales (1971); successional information

- with excellent site distribution maps; no specimens cited: *Sphagnum compactum*.
252. Rau, E.A., and A.B. Hervey. 1879. Catalogue of North American Musci. Gazette Job Office, Taunton, Massachusetts. 52 p. [25-M] From unspecified Illinois locations; no specimens cited.
253. Redfearn, P.L., Jr. 1966. Bryophytes of the Interior Highlands of North America XI. Additions to the flora. *Bryologist* 69:504-508. [1-A, 9-M] Annotated checklist with specimens cited, vouchers at various herbaria; *Brotherella tenuirostris* (Pope, Williamson), *Campylopus flexuosus* (Franklin), *Ctenidium molluscum* (Jackson), *Entodon macropodus* (Union), *Mnium hornum* [misidentified *M. marginatum*] (Jackson), *M. orthorhynchum* (Johnson), *Notothylas orbicularis* (Union), *Plagiothecium roseanum* (Jackson, Johnson, Williamson), *Sematophyllum demissum* (Johnson, Pope, Williamson), *Syrrophodon texanus* (Johnson), and *Tortula pagorum* (Randolph).
254. Redfearn, P.L., Jr. 1968. Bryophytes of the Interior Highlands of North America XIII. Additions to the flora. *Bryologist* 71:356-357. [10-M] Annotated checklist with specimens cited, vouchers at various herbaria; *Araulon rufescens* (Jackson), *Brothera leana* (Jackson, Pope, Saline, Union), *Dicranum spurium* (Pope), *Herpetoneuron toccoeae* (Union), *Hemalotheciella subcapillata* (Pope), *Hypnum cupressiforme* (Randolph), *Isoprygium muellerianum* (Pope), *Schwetschkeopsis fabronia* (Union), *Sciaronium lescurei* (Pope), and *Sematophyllum marylandicum* (Pope).
255. Redfearn, P.L., Jr. 1972. Mosses of the Interior Highlands of North America. *Annals of the Missouri Botanical Garden* 59:1-103. [50-M, 4-S] Numerous taxa from R-4 and R-5 (all or part of 16 southernmost counties), no specific counties given; no specimens cited; key and annotated checklist with frequency rating, vouchers at SMS.
256. Redfearn, P.L., Jr. 1983. Checklist of the Interior Highlands of North America in Arkansas, Illinois, Missouri, and Oklahoma. *Contributions from the Ozark Regional Herbarium, Southwest Missouri State University, Springfield*. 143 p. [159-M, 6-S] From Alexander (3,0), Franklin (6,0), Gallatin (14,0), Hardin (12,0), Johnson (97,1), Johnson (101,2), Massac (3,0), Pope (102,5), Pulaski (4,0), Randolph (102,3), Saline (58,0), Union (85,0), and Williamson (54,0) cos.; no specimens cited.
257. Redfearn, P.L., Jr. 1983. Mosses of the Interior Highlands of North America. (Second printing, with changes and additions). *Missouri Botanical Garden, St. Louis*. viii + 103p. [52-M, 5-S] Taxa reported from the Ozark Hills (16 southernmost counties) with a few specific sites given, numerous other implied reports listed nebulously under Interior Highlands; keys, descriptions, ecological information, and frequency rating; no specimens cited; vouchers at SMS; *Anacamptodon splachnoides* (Pope) and *Helodium paludosum* (Pope); reprint, with changes and additions, of Redfearn (1972).
258. Reese, W.D. 1984. Reproductivity, fertility and range of *Syrrophodon texanus* Sull. (Musci: Calymperaceae), a North American endemic. *Bryologist* 87:217-222. [1-M] From Gallatin, Johnson, and Saline cos.; dot map; specimens examined but not cited; "... discontinuous and presumably relictual populations."
259. Reichle, D.E. 1964. The population ecology, distribution and abundance of bog-inhabiting pselaphid beetles. Ph.D. dissertation. Northwestern University, Evanston, Illinois. ii + 209 p. [14-M, 5-S] From Lake Co.; same taxa listed in Reichle (1964) except *Clmatium dendroides* given instead of *C. americanum*; "moss" from Cook Co.; "moss and sphagnum" from McHenry Co.; (p. 198) black and white photo of *Sphagnum magellanicum*, *S. recurvum*, and *S. teres*; no mention of vouchers.
260. Reichle, D.E. 1969. Distribution and abundance of bog-inhabiting pselaphid beetles. *Transactions of the Illinois State Academy of Science* 62:233-264. [14-M, 5-S] From Lake Co.; no mention of vouchers; *Aulacomium androgynum*, *Brachythecium*, *Calluladulum haldanum*, *Callixegon cordifolium*, *Clmatium americanum*, *Dicranum scoparium*, *Helodium paludosum*, *Mnium affine* var. *rugicum*, *M. cuspidatum*, *Plagiothecium sylvaticum*, *Pohlia nutans*, *Polystichum commune*, *Sphagnum cymbifolium*, *S. magellanicum*, *S. recurvum*, *S. squarrosum*, *S. teres*, *Tetrapihis pellicuda*, and *Thuidium delicatulum*.
261. Reichle, D.E., and W.T. Doyle. 1965. Bryophyte succession in a northern Illinois bog. *Bryologist* 68:463-470. [17-M, 4-S] From Lake Co.; no specimens cited; interesting discussion and habitat data.
262. Renzaglia, K.S. 1977. Developmental morphology and comparative anatomy in representatives of five genera of Anthocerotales. M.S. thesis. Southern Illinois University, Carbondale. ii + 82 p. [3-A] Reprinted in Renzaglia (1978) with same taxa and locations except *Anthoceros punctatus* from Saline Co.; specimens cited.
263. Renzaglia, K.S. 1978. A comparative morphology and developmental anatomy of the Anthocerophyta. *Journal of the Hattori Botanical Laboratory* 44:31-90. [3-A] *Anthoceros punctatus* (Gallatin, Jackson), *Notothylas orbicularis* (Jackson), and *Phaeoceros laevis* (Jackson, Williamson); vouchers at SIU; reprint of Renzaglia (1977).
264. Renzaglia, K.S. 1981. A comparative developmental investigation of the gametophyte generation in the Metzgeriales (Hepatophyta). Ph.D. dissertation. Southern Illinois University, Carbondale. x + 251 p. [7-1] From R-5; no voucher data; reprinted in Renzaglia (1982).
265. Renzaglia, K.S. 1982. A comparative developmental investigation of the gametophyte generation in the Metzgeriales (Hepatophyta). *Bryophytorum Bibliotheca* Vol. 24. J. Kramer, Vaduz, West Germany. x + 253 p. [7-H] *Aneura pinguis*, *Fossombronina*, *Metzgeria conjugata*, *M. furcata*, *Pallavicinia lyelli*, *Pellia epiphylla*, and *Riccardia multifida* from R-5; no voucher data; reprint, with some omissions, of Renzaglia (1981).
266. Richards, D. 1940. Bryophytes of Starved Rock State Park, La Salle County, Illinois. *Transactions of the Illinois State Academy of Science* 33:74-77. [1-A, 17-H, 32-M, 1-S] Annotated checklist with specimens cited, vouchers in several herbaria; *Fissidens grandifrons* and *Sphagnum girgensohnii*.
267. Robertson, K.R., W.E. McClain, and A.C. Koelling. 1983. First confirmation of *Erythronium mesochorum* (Liliaceae) east of the Mississippi River. *Castanea* 48:146-150. [1-A, 6-M] Checklist from Macoupin Co. railroad prairie; vouchers at ILLS, no specimens cited; *Atrichum angustatum*, *Bruchia flexuosa*, *Campylopus chrysocephalum*, *Ditrichum pallidum*, *Phaeoceros laevis*, *Physcomitrium pyriforme*, and *Pleuridium subulatum*, collected and identified by B.N. McKnight.
268. Robinson, H. 1962. Generic revisions of North American Brachytheciaceae. *Bryologist* 65:73-146. [1-M] *Brachythecium regulare* var. *noveboracense* from Illinois vouchered at NY; no specimen cited.
269. Röll, J. 1893. Nordamerikanische laubmoose, torfmoose, und lebermoose. *Hedwigia* 32:181-203, 260-309, 334-402. [2-11, 62-M] Checklist for Cook, Lake, and Winnebago cos.; specimens cited.
270. Rohde, C.J., Jr. 1955. Studies on anthropods from a moss habitat with special emphasis on the life history of three oribatoid mites. Ph.D. dissertation. Northwestern University, Evanston, Illinois. vi + 84 p. [5-M] From La Salle Co.; no vouchers mentioned; map of study area, collected between 20 June 1953 and 9 October 1954. *Brachythecium ex ladum*, *B. salebrosum*, *Brachia grammocolor*, *Mnium cuspidatum*, and

- Timmia megapolitana*; (p. 2) "... mosses and liverworts are in abundance where the low mats formed by these plants overlie almost pure quartz [?];" (p. 5) "No correlation between arthropod inhabitants and species of moss noted;"
271. Royle, D.J. 1974. The corticolous mosses of east central Illinois. M.S. thesis. Eastern Illinois University, Charleston. iv + 229 p. [57-M] Annotated checklist for Clark, Coles, and Cumberland cos. (not separated by county); descriptions and illustrations; vouchers in author's collection and at EIU, but no specimens cited.
272. Royle, D.J., and C.B. Arzeni. 1975. A richer awareness. A casual hike in any Illinois woodland offers a laboratory of mosses and liverwort. *Outdoor Illinois* 14(3):40-42. [4-H, 14-M, S] From R-4: "... 57 different corticolous bryophytes in east central Illinois ...", but only 18 listed, several only to genus; no specimens cited.
273. Rubin, M., and C. Alexander. 1958. U.S. Geological Survey radiocarbon dates IV. *Science* 127:1476-1487. [2-M] *Callicliona* and *Drepanocladus* from McLean Co. (p. 1478), aged to 24,700 years \pm 1000; identified by W. Welch, but no specimens cited.
274. Rushing, A.E. 1982. A revision of the genus *Bruchia* Schwaegr. [Musci], Ph.D. dissertation, Texas A & M University, College Station. xiii + 221 p. [1-M] *B. flexuosa* from McHenry and Stark cos.; specimens examined (NY).
275. Rushing, A.E. 1986. A revision of the genus *Bruchia* Schwaegr. (Musci). *Journal of the Hattori Botanical Laboratory* 60:35-83. [1-M] Page 67, *B. flexuosa* from Champaign, Clark, Cook, Fulton, Macoupin, McHenry, Menard, Pulaski, and Stark cos.; with specimens cited.
276. Schertler, M.M. 1976. Morphology and developmental anatomy in the leafy hepatic *Nowellia curvifolia* (Dicks.) Mitt. M.S. thesis. Southern Illinois University, Carbondale. iv + 72 p. [1-H] From Jackson and Williamson cos.; specimens cited; illustrations and voucher data.
277. Schertler, M.M. 1979. Development of the archegonium and embryo in *Lophocolea heterophylla*. *Bryologist* 82:576-582. [1-H] From Jackson and Williamson cos.; specimens cited.
278. Schiller, C.T. 1976. Jungermanniales of Coles and Clark counties of Illinois. M.S. thesis. Eastern Illinois University, Charleston. iv + 136 p. [20-H] From Clark (19) and Coles cos. (13); no specimens cited, vouchers at EIU [?]; descriptions, illustrations, and key.
279. Schnoberger, I. 1942. Distribution of *Tortula papillosa* Wils. *Bryologist* 45:24-27. [1-M] From unspecified Illinois location; from literature (Hague, 1930).
280. Schofield, W.B. 1972. Bryology in Arctic and Boreal North America and Greenland. *Canadian Journal of Botany* 50:1111-1133. [2-M] Dot maps but no specimens cited; p. 1121 (Fig. 10) *Hypnum imponens* three to four populations; p. 1122 (Fig. 15) *Tetraphis pellucida* three to four populations.
281. Schofield, W.B. 1980. Phytogeography of the mosses of North America (north of Mexico). Pages 131-170 in R.J. Taylor and A.E. Leviton (eds.), *The Mosses of North America*. Pacific Division, American Association for the Advancement of Science, San Francisco. 170 p. [7-M] *Dicranum condensatum* (R-5), *Grimmia pilifera* (1L), *Isoetes elegans* (R-5), *Orthotrichum ohioense* (R-1), *Physcomitrium hookeri* (R-5), *Schwetscheopsis fabronia* (1L), and *Thelia hirtella* (R-3); dot maps; no specimens cited.
282. Schofield, W.B., and H.A. Crum. 1972. Disjunctions in bryophytes. *Annals of the Missouri Botanical Garden* 59:174-202. [5-M] Range maps; no specimens cited; *Atrichum crispum*, *Aulacomnium heterostichum*, *Drepanocladus ucinatus* (R-1,2), *Drummondia prorepens*, and *Hylocomium splendens* (R-1,2,3,4).
283. Schuster, R.M. 1953. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. *American Midland Naturalist* 49:257-684. [3-H] *Fossombromia cristula*, *Riccia sorocarpa*, and *R. sullivantii* from Illinois, no counties listed; no specimens cited; reprinted in Schuster (1977).
284. Schuster, R.M. 1957. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. II. Ecology. *American Midland Naturalist* 57(1-2):203-332. [3-H] From R-1 and unspecified Illinois location; (p. 209) "*Clevea hyalina*, *Mannia sibirica*, and *Asterella saccata* could have conceivably survived the Pleistocene in ... Driftless Area ... in Illinois;" (p. 203) "... over 90% of species found in Illinois have also been found in Minnesota ..."; reprinted in Schuster (1977).
285. Schuster, R.M. 1958. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. III. Phytogeography. *American Midland Naturalist* 59:257-332. [3-H] *Mannia fragrans* (R-3), *M. rupestris* (R-1,2), and *Reboulia hemisphaerica* (R-1,2,3); dot maps (p. 274); no specimens cited; reprinted in Schuster (1977).
286. Schuster, R.M. 1958. Notes on Nearctic Hepaticae VI. Phytogeographical relationships of critical species in Minnesota and adjacent areas of the Great Lakes. *Rhodora* 60:209-234, 243-256. [1-H] Page 211, Cordilleran species are also found in the Driftless Area in Illinois; p. 245, *Mannia rupestris* is infrequent in the Driftless Area in Illinois, two dots on map (Fig. 17) from R-1,2.
287. Schuster, R.M. 1959. A monograph of the Nearctic Plagiocliaceae. Part I. Introduction and section I. Asplenioidei. *American Midland Naturalist* 62:1-166. [3-H] *Mylia taylora*, (p. 47) "... the report from Illinois in Frye and Clark (loc. cit.) based on the old list of Wolf and Hall being wholly without merit;" (p. 65) *Pedinophyllum interruptum*, the Illinois report by Frye and Clark is "... ambiguous and should not be accepted without study of the material in question;" (p. 118) *Plagiocliella asplenoides* from La Salle and Jackson cos.
288. Schuster, R.M. 1960. A monograph of the Nearctic Plagiocliaceae. Part III. Section *contiguae* to conclusion. *American Midland Naturalist* 63:1-130. [1-H] "The report of *Plagiocliella undata* from Illinois (Frye & Clark, loc. cit.) should be verified. On phytogeographic grounds it appears improbable that the species should occur in Illinois;" (p. 118).
289. Schuster, R.M. 1966. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. I. Columbia University Press, New York. xvii + 802 p. [4-H] *Blepharostoma trichophyllum* (1L), *Ptilidium citiare* (1L), *P. pulcherrimum* (Champaign), and *Trichocolea tomentella* (Jackson); from literature; no specimens cited.
290. Schuster, R.M. 1969. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. II. Columbia University Press, New York. xii + 1062p. [10-H] *Bazania trilobata* (Jackson), *Calyptogonia trichomanis* (Clark), *Jamesoniella autumnalis* (Champaign), *Jungermannia lanceolata* (1L), *Lophocia incisa* (Clark), *Plectocolea crenuliformis* (Clark), *P. fossombromioides* (Fulton), *P. hyalinum* (Clark), *Solenostoma punata* (Montgomery), and *S. gracillimum* (Clark); some specimens cited.
291. Schuster, R.M. 1974. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. III. Columbia University Press, New York. xiv + 880 p. [8-H] *Cephalozia bicuspadata* (Jackson), *C. convivens* (Clark, Coles), *C. lunulifolia* (Clark), *Nowellia curvifolia* (1L), *Odontoschisma prostratum* (Jackson) "highly skeptical", *Pleurocladus abscersus* (1L) "undoubtedly an error", *Scapania nemorosa* (1L), and *S.*

- undulata* "error for *S. nemorosa*"; from literature, some specimens cited.
292. Schuster, R.M. 1977. Boreal Hepaticae, a manual of the liverworts of Minnesota and adjacent regions. Bryophytorum Bibliotheca. Vol. 11. J. Cramer, Vaduz, West Germany. [H] Reprint, with minor corrections, of Schuster (1953, 1957, 1958).
293. Schuster, R.M. 1980. The Hepaticae and Anthocerotae of North America east of the hundredth meridian. Vol. IV. Columbia University Press, New York. xviii + 1334 p. [18-H] *Cephalozella byssacea*, *C. elachista* var. *argustioloba* (Randolph), *C. rubella* var. *sullivantii* (Fulton), *C. spingerea*, *Chiloscyphus pallescens*, *Geocalyx gravivolvens*, *Harpanthus scutatus* "unreliable", *Lophocolea bidentata* "unreliable, meaningless", *L. cuspidata*, *L. cuspidata* fo. *alata* "erroneously" (Champaign), *L. heterophylla*, *L. minor* (Champaign), *Plagiochila asplenoides* (Jackson, La Salle), *P. undata* "needs verification" (So. Ill.), *Porrella pinnata* (Wabash), *P. platyphylla* (Champaign, Du Page, Union), and *Radula obconica* (Jackson); some specimens cited.
294. Schwegman, J.E. 1969. Vegetation of some seep springs in the Cretaceous Hills of southern Illinois. M.A. thesis. Southern Illinois University, Carbondale. vi + 81 p. [1-H, 13-M, 1-S] Annotated checklist (p. 46-47); *Amblystegium trichopodium*, *Atrichum angustatum*, *A. undulatum*, *Aulacomnium palustre*, *Brachythecium rivulare*, *Bryhnia novae-angliae*, *Cirriophyllum bosci*, *Climacium americanum*, *Helodium paludosum*, *Leucobryum albidum*, *Mnium cuspidatum*, *Pallavicinia lyellii*, *Polytrichum ohioense*, *Sphagnum imbricatum*, and *Thuidium delicatulum* from Pope Co.; no specimens cited, vouchers at SIU.
295. Schwegman, J.E. 1986. Algific (cold-producing) slopes in Illinois and their vascular flora. *Erigenia* 7:3-14. [1-H] From Jo Davie's, p. 6. "At the cold slope which appears to have been disturbed by cattle, patches 3 to 4 feet across are dominated by . . . *Marchantia* . . . However, since cold patches at Asgard do not support similar liverwort communities, I interpret them as successional stages from past soil disturbance"; no specimen cited, but voucher housed at ILLS.
296. Sharp, A.J. 1939. Taxonomic and ecological studies of eastern Tennessee bryophytes. *The American Midland Naturalist* 21:267-354 + vii. [3-M] Page 332, *Brothera leana* on dot map from R-4 [approximately Macoupin Co.]; p. 341, *Leucobryum albidum* on shaded range map from southeastern corner of state (R-5); p. 342, *Thuidium minutulum* on shaded range map from R-4,5.
297. Sharp, A.J., and L.E. Anderson. 1981. An unusual substrate for knothole moss, *Anacamptodon splachnoides*. *Bryologist* 84:539-542. [1-M] Reported by Crum (1958) from Illinois; no specimen cited.
298. Sharp, L.W. 1920. Spermatogenesis in *Blasia*. *Botanical Gazette* 69:258-268 + pl. XV. [1-11] *Blasia pusilla* collected near Chicago [probably Cook Co.]; no mention of voucher.
299. Shaw, A.J. 1981. A taxonomic revision of the propagiferous species of *Pohlia* (Musci) in North America. *Journal of the Iltatori Botanical Laboratory* 50:1-81. [1-M] *P. prolifera* from La Salle Co., *Rolfjearn* 29144 (SMS).
300. Shaw, A.J. 1981. Ecological diversification among nine species of *Pohlia* (Musci) in western North America. *Canadian Journal of Botany* 59:2359-2378. [1-M] *P. prolifera* on dot map from La Salle Co. (p. 2362); no specimen cited.
301. Shaw, [A.]. 1982. *Pohlia* Hedw. (Musci) in North and Central America and the West Indies. Contributions from the University of Michigan Herbarium 15:219-295. [4-M] *P. melanodon* from Illinois, no counties listed; *P. nutans* shaded range map from all of Illinois; *P. prolifera* one population from R-1; *P. wahlenbergii* from three populations in R-3; no specimens cited; p. 276,287,292,293; very similar to Ph.D. dissertation.
302. Shaw, A.J. 1983. Phylogeny and ecology of *Pohlia* Hedw. with a revision of the species of North and Central America. Ph.D. dissertation. University of Michigan, Ann Arbor. vii + 272 p. [4-M] *P. melanodon* from Illinois (sterile specimens); *P. nutans* on shaded range map from all of Illinois; *P. prolifera* from one population (R-2); *P. wahlenbergii* from five populations (R-3,4); very small dot maps; no specimens cited.
303. Sheviak, C.J., and A. Haney. 1973. Ecological interpretations of the vegetation patterns of Volo Bog, Lake County, Illinois. *Transactions of the Illinois State Academy of Science* 66:99-112. [1-S] *Sphagnum recurvum*; no voucher mentioned.
304. Sholl, R.D. 1970. The occurrence and distribution of the bryophytes of Lake Argyle State Park. M.S. thesis. Western Illinois University, Macomb. vi + 81 p. [1-A, 4-11, 65-M] Annotated checklist for McDonough Co. with key and maps; vouchers at WIU, but no specimens cited.
305. Sholl, R.D., and J.D. Ives. 1973. The microenvironment of *Climacium americanum*. *Transactions of the Illinois State Academy of Science* 66(3-4):97-104. [3-M] From McDonough Co. in association with *Bartramia pomiformis* and *Thuidium recognitum*; no specimens cited.
306. Short, C.W. 1845. Observations on the botany of Illinois, more especially in reference to the autumnal flora of the prairies. *The Western Journal of Medicine and Surgery, New Series* 3:185-198. [M] Page 193, "Ferns are remarkable rare on the prairies; indeed . . . The same remarks will apply, in a good degree, to the tribe of mosses."
307. Simon, T.M. 1977. Saxicolous bryophytes of Coles and Clark Counties. M.S. thesis. Eastern Illinois University, Charleston. xi + 236 p. [1-A, 23-11, 38-M] Annotated checklist with descriptions and illustrations, vouchers in author's collection and at FIU but no specimens cited.
308. Skorepa, A.C. 1968. Liverworts from southern Illinois. *Bryologist* 71:129-138. [3-A, 55-11, 3-M] Notes and annotated checklist for Clark (0,3,0), Coles (0,1,0), Gallatin (0,10,0), Hardin (0,1,0), Jackson (2,36,0), Johnson (0,18,0), Pope (2,37,0), Randolph (0,6,0), Saline (0,6,0), and Union (1,22,0) cos.; specimens cited, vouchers at SIU; *Bazzania tricenata*, *Lejeunea lamacerina*, *Marsipella sullivantii*, *Plagiochila undata*, *Scapania undulata*, and *Trichocolea tomentella*.
309. Skorepa, A.C. 1973. Taxonomic and ecological studies on the lichens of southern Illinois. Ph.D. dissertation. University of Tennessee, Knoxville. vi + 248 p. [1-H, 3-M] *Dicranum scoparium*, *Grimmia laevigata*, *Polytrichum commune*, and *Scapania* from Pope Co. and R-5, no vouchers mentioned; 8 lichens growing on "moss"; (p. 62,63, 66,69,84,149,237).
310. Skorepa, A.C., and J.A. Snider. 1967. Some unusual lower plants from Lusk Creek Canyon, Pope County, Illinois. *Transactions of the Illinois State Academy of Science* 60:105-106. [1-M, 2-S] Annotated checklist with specimens cited, vouchers at SIU; *Dicranum spurium*, *Sphagnum compactum*, and *S. tenerum*.
311. Smith, A.J. 1964. Some evidences of succession in a northern Illinois quarry. M.S. thesis. Northern Illinois University, De Kalb. vi + 64 p. [M] From Kane Co.; much discussion of mosses, including photos, but no scientific names; "The conclusions of the study may be drawn without specific identification of these small plants . . . non-vascular plant taxonomy has been avoided"; no vouchers mentioned; p. 2,27,30,31.
312. Smith, D.K. 1980. *Funaria americana* Lindb. in North America. *Bryologist* 83:335-339. [1-M] From Cook and Will

- cos.; specimens cited, also reported in literature (Hill, 1916; Lawton, 1971); the two sites are a pair of loess bluffs along main channel of proglacial Lake Chicago; dot map.
313. Smith, G.L. 1969. *Conspectus of the genera of Polytrichaceae (Bryophyta)*. Ph.D. dissertation. Columbia University, New York. [iii] + 173 p. [2-M] Page 111, *Atrichum* on shaded range map from all of Illinois; p. 107, *Pogonatum* on shaded range map from all except R-2.
314. Smith, G.L. 1977. *Atrichum cylindricum* (Polytrichaceae), an overlooked moss in the southeastern United States. *Brittonia* 29:368-375. [1-M] "*Atrichum cylindricum* is probably distributed throughout the Mississippi Embayment, . . . , and it may also be in southern Illinois. . . ." (p. 374).
315. Snider, J.A. 1970. The genus *Sphagnum* in Illinois. *Transactions of the Illinois State Academy of Science* 63:329-338. [16-S] Annotated checklist for Clark (5), Cook (6), Fulton (1), Grundy (1), Jackson (1), Johnson (3), Kankakee (1), Kendall (1), Lake (13), La Salle (2), Massac (1), McHenry (4), Pope (4), Randolph (2), Will (2), and Williamson (1) cos.; specimens cited, vouchers at DUKE, F, ILL, ILLS, and SIU.
316. Snider, J.A. 1973. A revision of the genus *Archidium* (Musci). Ph.D. dissertation. Duke University, Durham, North Carolina. xii + 306 p. [3-M] *A. alternifolium*, *A. donnellii*, and *A. ohioense* on dot maps from Menard Co. [probably]; *A. ohioense* also from Cook Co.; some specimens cited; p. 114, 150, 212, 215.
317. Snider, J.A. 1975. A revision of the genus *Archidium* (Musci). *Journal of the Hattori Botanical Laboratory* 39:105-201. [3-M] *A. alternifolium* (Menard), *A. donnellii* (Menard), and *A. ohioense* (Cook, Menard); dot maps and specimens cited; reprint, with some changes, of Snider (1973).
318. Snider, J.A. 1982. Bryophytes. Pages 14-21 in T.S. Cooperider (ed.), *Endangered and threatened plants of Ohio*. Ohio Biological Survey, Biological Notes No. 16, iv + 92 p. [1-H, 2-M, 2-S] Annotated checklist without reference to specific counties or basis for reports; no specimens cited; *Archidium ohioense*, *Diselium nudum*, *Pedinophyllum interruptum*, *Sphagnum capillaceum*, and *S. fimbriatum*.
319. Spessard, L.L. 1972. The bryophytes of Shelby County. M.S. thesis. Eastern Illinois University, Charleston. viii + 430 p. [1-A, 15-H, 80-M] Checklist with descriptions and stylized illustrations; statewide distribution given (based on literature) including reports from 42 additional counties, especially Clark (1,14,65), Coles (1,13,65), and Fulton (1,6,44); vouchers at EIU, but no specimens cited.
320. Spessard, L.L. 1975. Five mosses new to Illinois. *Bryologist* 78:86. [5-M] Annotated checklist for Shelby Co.; specimens cited, vouchers at EIU: *Brachythecium campestre*, *Fissidens bushii*, *Pohlia wahlenbergii*, *Pylaisiella selwynii*, and *Ulota crispata*.
321. Spessard, L.L., and C.B. Arzeni. 1975. Bryophytes of Shelby County, Illinois. *Transactions of the Illinois State Academy of Science* 68:29-35. [1-A, 15-H, 71-M] Annotated checklist with specimens cited, vouchers at EIU: *Bazzania trilobata* and *Ulota crispata*.
322. Spiess, L.D. 1976. Developmental effects of zeatin, ribosylzeatin, and *Agrobacterium tumefaciens* B6 on certain mosses. *Plant Physiology* 58:107-109. [8-M] "Collected locally" from Lake Forest area [probably Lake Co.]; identified by Crum, Stotler, and Zehr, no vouchers mentioned; *Atrichum angustatum*, *Calluladidium haldanianum*, *Climacium americanum*, *Entodon seductrix*, *Funaria hygrometrica*, *Polytrichum commune*, *Pylaisiella selwynii*, and *Thuidium delicatulum*.
323. Spiess, L.D., B.B. Lippincott, and J.A. Lippincott. 1981. Bacteria isolated from moss and their effect on moss development. *Botanical Gazette* 142:512-518. [3-M] *Amblystegium varium*, *Funaria americana*, and *Pylaisiella selwynii* from Cook Co.; no vouchers mentioned.
324. Spiess, L.D., B.B. Lippincott, and J.A. Lippincott. 1971. Development and gametophore initiation in the moss *Pylaisiella selwynii* as influenced by *Agrobacterium tumefaciens*. *American Journal of Botany* 58:726-731. [1-M] From Cook Co.; no voucher mentioned.
325. Steere, W.C. 1933. The association of *Bartramia pomiformis* and *Aulacomnium heterostichum*. *Bryologist* 36:14-15. [2-M] Montgomery (1931) has reported on a similar study of the relation of hydrogen-ion concentration to habitat in the Grand de Tour region [Ogle Co.] of Illinois. He tested the reaction not only of the substratum, but also of the mosses themselves, and usually found them to be more alkaline than the soil beneath them. *Bartramia* and *Aulacomnium* were reported to range from the neutral point to somewhat alkaline, the majority of the specimens tested having a pH of 7.2; no vouchers mentioned.
326. Steere, W.C. 1940. *Tortula* in North America north of Mexico. *Bryologist* 43:12-23, 45-56, 76-86, 98-109. [1-M] *Tortula papillosa* from Illinois (p. 100), no counties listed; no specimen cited.
327. Steere, W.C. 1979. Taxonomy and phytoecology of bryophytes in Boreal and Arctic North America. Chapter 6. Pages 123-157 in G.C.S. Clarke and J.G. Duckett (eds.), *Bryophyte Systematics*. Academic Press, New York. xii + 582 p. [2-M] *Ctenidium molluscum* from R-4 and *Pterygoneurum subsessile* from R-3 on dot maps; no specimens cited.
328. Stotler, R.E. 1976. Saxicolous bryophyte and macrolichen associations in southern Illinois. I. Little Grand Canyon, Jackson County. *Bryologist* 79:1-15. [32-H, 35-M] Annotated checklist with ecological data and frequency measurements, no specimens cited but vouchers at SIU: *Lejeunea lanacarina* ssp. *geminata*, *Metzgeria conjugata*, *Plagiogchila sharpii*, and *Scapania undulata*.
329. Stotler, R.E. 1979. A history of Illinois bryology. *Transactions of the Illinois State Academy of Science* 72(2):16-27. [A,H,M,S] Biographical sketches of Illinois bryologists; some bryophytes mentioned.
330. Stotler, R.E., and D.H. Vitt. 1972. Additions to the hepatic flora of the Pickle Springs area of southeastern Missouri. *Bryologist* 75:176-178. [4-H] Annotated checklist based primarily on literature reports of Skorepa (1968); *Cephalozia connivens* (Pope, Interior Highlands), *C. media* (Pope), *Metzgeria conjugata* (Jackson), and *Nowellia curvifolia* (Jackson, Pope) "Continued studies will, no doubt, reveal its presence in many other localities of Illinois. . . ."
331. Stover, E.L. 1930. A mesophytic ravine, "Rocky Branch", a floristic account. Eastern Illinois State Teachers College Bulletin No. 110:1-26. [1-A, 5-H, 7-M, 1-S] *Anthoceros*, *Atrichum*, *Blasia*, *Bryum*, *Climacium*, *Conocephalum*, *Leucobryum*, *Marchantia*, *Mniium*, *Pellia*, *Polytrichum*, *Reboulia*, *Sphagnum*, and *Thuidium* from Clark Co.; no vouchers mentioned.
332. Sullivant, W.S. 1856. The Musci and Hepaticae of the United States east of the Mississippi River. George P. Putnam & Co., New York. 113 p. + 8 pls. [1-M] *Cryphaea unundata* from the Fox and Wabash rivers (White Co.); also reported from the Black River which is located in Posey Co., Indiana, not Illinois (see McKnight #209); also contributed to the second edition of Gray's Manual of Botany.
333. Sullivant, W.S. 1864. *Icones Muscorum* or figures and descriptions of most of the mosses peculiar to eastern North America which have not been heretofore figured. University Press, Cambridge, Massachusetts. vi + 216 p. + 128 tab. [1-M] *Acaulon schimperianum* from Menard Co., Hall.
334. Sullivant, W.S. 1874. *Icones Muscorum* or figures and descriptions of most of the mosses peculiar to eastern North America which have not yet been figured. Supple-

- ment. University Press, Cambridge, Massachusetts. viii + 109 p. + 81 tab. [2-M] *Conomitrium Hallianum* [sic] from Illinois [probably Menard Co.] Hall; *Leskea Austini* [sic] from Fulton Co., Wolf.
335. Takaki, N. 1972. Geographical distribution of Japanese *Dicranum* species in the Northern Hemisphere. *Journal of the Hattori Botanical Laboratory* 35:31-40. [3-M] Range maps (p. 35, 38) including all of Illinois for *Dicranum flagellare*, *D. fuscescens*, and *D. viride* var. *viride*; no specimens cited.
336. Tan, B.C. 1978. *Physcomitrella patens* (Musci: Funariaceae) in North America. *Bryologist* 81:561-567. [1-M] From Fulton Co. *Chase 13133* (CANM, UBC) and Menard Co. Hall (MICH); only one population from Illinois on dot map.
337. Taylor, A.M. 1919. Mosses as formers of tufa and floating islands. *Bryologist* 22:38-39. [1-M] *Brachythecium rivulare* from Will Co.; no specimen cited.
338. Taylor, A.M. 1920. Ecological succession of mosses. *Botanical Gazette* 69:449-491. [34-M, 1-S] From Carroll (11,0), Cook (24,1), and Will (8,0) cos.; no vouchers mentioned; the Illinois data is intermixed with data from northwestern Indiana; "In the ravines themselves [Cook Co.] the mosses belong almost without exception to the Hypnaceae and are with sporophytes." (p. 472); interesting.
339. Taylor, A.M. 1920. Appearance of mosses in ecological habitats. *Bryologist* 23:81-84. [75-M, 3-S] Annotated checklist for Cook Co.; table showing ecological habitats for each species; "... a great reduction in the number of species in the late oak and climax forests, which appears in marked contrast to the conditions found in many regions."
340. Taylor, A.M. 1921. Occurrence of *Funaria hygrometrica* (L.) Sibth. *Bryologist* 24:7-8. [1-H, 2-M] From Cook Co. in association with *Marchantia polymorpha* and *Polytrichum commune*; no vouchers mentioned.
341. Thomas, P.E. 1974. Hepaticae of the Interior Highlands, North America. M.A. thesis. Southwest Missouri State University, Springfield. v + 121 p. [3-A, 63-H] Total of 137 species from the Interior Highlands with 66 species from the Ozark Hills (R-5), called Ozark Highlands on Table 1 (p. 2-9), no counties listed; excellent keys, brief habitat descriptions, illustrations, no specimens cited, many vouchers at SMS, some reports from literature; *Frullania kunzei* [?], *Marsupella sullivantii*, *Plagiochila virginica* [?], and *Radula mollis* [?].
342. Thompson, D.N. 1977. A survey of the bryophytes of Bureau County, Illinois. M.S. thesis. Western Illinois University, Macomb. vii + 58 p. [7-11, 75-M] Annotated checklist with specimens cited, vouchers at MWI; includes 4-H and 28-M reported from surrounding counties (La Salle, Lee, Stark); *Herzogella turfnea*, *Pottia davalliana*, *Tortula murais*, and *T. ruralis*.
343. Thone, F. 1923. Evaporation rates on rock canyon walls. *Botanical Gazette* 76:419-424. [2-11, 1-M] *Callicladium halidamanum*, *Conocephalum*, and *Marchantia* from La Salle Co.; no vouchers mentioned.
344. Traylor, E.A. 1977. The bryocoenology of Montgomery County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. vii + 149 p. [2-H, 34-M] Vouchers in author's collection and at EIU [?].
345. True, R.N. 1899. Geographical distribution of *Dicranum*. *Bryologist* 2:25-27. [3-M] *D. Bonjeani* [sic], *D. scoparium*, and *D. undulatum* from Illinois, no counties listed; no specimens cited.
346. Tucker, L.T. 1970. Bryophyte flora of Cass County. M.S. thesis. Western Illinois University, Macomb. vi + 58 p. [1-A, 4-H, 67-M] Annotated checklist, no specimens cited but vouchers at MWI, *Campylum stellatum*, *Hypnanthus scutatus*, and *Psilasiella intricata*.
347. Ullrich, E.T. 1915. The relation of evaporation and soil moisture to plant succession in a ravine. *Bulletin of the Illinois State Laboratory of Natural History* 12:1-16 + 18 pls. [3-M] *Atrichum undulatum*, *Mnium*, and *Polytrichum commune* from Cook Co.; no vouchers mentioned.
348. Underwood, L.M. 1882. North American Hepaticae. *Botanical Gazette* 7:18-21. [H] "... Illinois has been more or less carefully examined ... forty-five [species] from Illinois, yet ... only a few counties have been carefully examined."; no taxa listed from Illinois.
349. Underwood, L.M. 1884. Descriptive catalogue of the North American Hepaticae, north of Mexico. *Bulletin of the Illinois State Laboratory of Natural History* 2:1-133. [3-A, 44-H] Checklist for unspecified Illinois locations (p. 116-119); no specimens cited; *Jungernanna Sullivantae* [sic], *Lophocolea Hallii* [sic], and *Riccia crystallina* are noted in text.
350. Underwood, L.M. 1890. Cellular acrogens, or bryophytes. Pages 702-732 + pls. 22-25 in A. Gray (ed.), *Manual of the botany of the northern United States, including the district east of the Mississippi and north of North Carolina and Tennessee*. Ivison, Blackman, and Co., New York. 760 p. + 25 pls. [7-H] *Cephalosziella sullivantii*, *Lophocolea Hallii* [sic], *Odontoschisma sphagni*, *Riccia crystallina*, *R. frostii*, *R. lescuriana*, and *R. sorocarpa* from Illinois, no counties listed; no specimens cited.
351. Underwood, L.M. 1894. Notes on our Hepaticae. II. *Botanical Gazette* 19:273-278. [6-11] *Riccia crystallina*, *R. frostii*, *R. frostii* var. *major*, *R. lescuriana*, *R. lutescens*, and *R. minima* from Illinois, no counties listed; no specimens cited.
352. Underwood, L.M. 1895. Notes on our Hepaticae. II. The distribution of North American Marchantiaceae. *Botanical Gazette* 20:59-71. [5-11] *Asterella tenella*, *Conocephalum concinnum*, *Grimaldia fragrans*, *Marchantia polymorpha*, and *Reboulia hemisphaerica* from Illinois, no counties listed; no specimens cited.
353. Underwood, L.M. 1896. The genus *Cephaloszia* in North America. *Bulletin of the Torrey Botanical Club* 23:381-394. [1-11] *C. sullivantiae* from Illinois; no specimen cited, "Austin also reported it from Illinois, but I have seen no specimens." (p. 387).
354. Vasey, G. 1859. Mosses of Illinois. *Transactions of the Illinois State Agricultural Society* 3:676-679. [1-11, 44-M] Annotated checklist for McHenry Co.; no specimens cited, vouchers incorporated at ILL from ILLS.
355. Vaughn, R.H. 1940. Moultrie County mosses. *Transactions of the Illinois State Academy of Science* 33:73. [50-M] Checklist with vouchers in author's collection and at ILL; no specimens cited.
356. Vaughn, R.H. 1941. Bryophytes of Rocky Branch region of Clark County, Illinois. *Transactions of the Illinois State Academy of Science* 34:96-97. [1-A, 13-H, 71-M, 1-S] Checklist, no specimens cited, vouchers at ABSH, ILL, and MICH.
357. Vierling, P.E. 1976. Starved Rock trails. A hiker's guide to the trails, geology, and botany of Starved Rock State Park, Illinois. *Guidebook No. 3*. Illinois Country Guides, Chicago. 104 p. [1-A, 6-11, 1-M] *Anthoceros*, *Blasia*, *Conocephalum*, *Marchantia*, *Pellia*, *Polytrichum commune*, *Reboulia*, and *Scapania* from La Salle Co. (p. 100, 101); no vouchers mentioned.
358. Vitt, D.H. 1972. A monograph of the genus *Drummondia*. *Canadian Journal of Botany* 50:1191-1208. [1-M] *D. prorepens* from Clark Co., Vaughn 110 (MICH), (p. 1197). Fig. 34, world distribution of genus includes all of Illinois (p. 1205).

359. Vitt, D.H. 1973. A revision of the genus *Orthotrichum* in North America, north of Mexico. Bryophytorum Bibliotheca Vol. 1. J. Cramer, Vaduz, West Germany. 298 p. + 60 pls. [6-M] *O. anomalum* (Cook), *O. ohioense* (Rock Island), *O. pumilum* (La Salle, R-3), *O. pusillum* (Johnson, R-5), *O. stellatum* (Winnebago), and *O. strangulatum* (Menard, R-2); specimens cited; dot maps.
360. Vitt, D.H., and P. Lee. 1984. *Anomodon minor* (Musci: Leskeaceae) in North America. Bryologist 87:338-339. [1-M] Dot map with eight locations in Illinois; no specimens cited.
361. Wade, D.R., and D.E. Wade. 1971. Plants of the Pine Rock Nature Preserve and some fauna lists. Pine Rock Nature Preserve Occasional Papers No. 1. Department of Outdoor Teacher Education, Lorado Taft Field Campus, Oregon, Illinois. x + 16 p. + 5 appendices. [1-M, 1-S] *Polytrichum commune* and *Sphagnum* from Ogle Co.; no vouchers mentioned.
362. Walker, J.K. 1964. Synopsis of the genera of mosses (Musci) in southern Illinois. M.A. thesis. Southern Illinois University, Carbondale. vii + 87 p. [152-M, 1-S] Descriptions and keys for 65 genera with list of species recorded from southern Illinois, 16 southernmost counties, but no specific counties given or vouchers mentioned; *Brachythecium albicans*, *Buxbaumia aphylla*, *Dicranum viride*, *Grimmia trichophylla*, and *Orthotrichum affine*; the basis for reports, especially several rare taxa, is suspect.
363. Wareham, R.T. 1939. The moss genera *Pottia* and *Pterigoneuron* in North America north of Mexico. Ph.D. dissertation. The Ohio State University, Columbus. 77 p. [4-M] One specimen [of *Pottia truncata*] from Chicago [Cook Co.] reported by Flowers (1930) is *Physcomitrium turbatum*; Grout's 197 [*Pottia randii*] was collected by Flowers (1930) on soil in shade, Washington Park, Chicago (also on dot map); *Pterigoneuron subsessile* "east to Illinois," on dot map from central Illinois (R-3); *Pottia truncata* on dot map (misidentified); p. 18,30,48,59,61,64.
364. Wascher, H. 1934. Plant composition of Illinois peat bogs. M.S. thesis. University of Illinois, Urbana-Champaign. 24 p. [3-M, 1-S] *Hypnum*, *Polytrichum* (2 spp.), and *Sphagnum* from Bureau, Henry, Lake, Mason, McHenry, Rock Island, and/or Whiteside cos.; unclear about source of material; no vouchers mentioned.
365. Waterman, W.G. 1921. Preliminary report on the bogs of northern Illinois. Transactions of the Illinois State Academy of Science 14:79-84. [1-S] *Sphagnum* from Lake Co.
366. Waterman, W.G. 1923. Bogs of northern Illinois. II. Transactions of the Illinois State Academy of Science 16:214-225. [2-M, 1-S] *Leucobryum*, *Polytrichum*, and *Sphagnum* from Lake Co.; no vouchers mentioned.
367. Waterman, W.G. 1926. Ecological problems from the *Sphagnum* bogs of Illinois. Ecology 7:255-272. [1-H, 1-M, 1-S] *Marchantia*, *Anium*, and *Sphagnum* from Lake Co.; no vouchers mentioned.
368. Weber, W.R. 1959. A flora of Piney Creek ravine. M.S. thesis. Southern Illinois University, Carbondale. vi + 105 p. [1-H, 1-S] *Cephalozella elachystata* and *Sphagnum capillareum* from Randolph Co. (p. 14,15,88); reprinted, with some omissions, in Weber (1970).
369. Weber, W.R. 1970. A flora of Piney Creek ravine. Transactions of the Illinois State Academy of Science 63:18-33. [1-H, 1-S] *Cephalozella subdentata* and *Sphagnum capillareum* from Randolph Co. (p. 30,32); vouchers at SIU, but no specimens cited.
370. Welch, W.H. 1960. A monograph of the Fontinalaceae. Martinus Nijhoff, The Hague, Netherlands. 357 p. [6-M] *Brachyleta subulatum* (Fox & Wabash rivers by von Wied in 1832, Welch also reported this species from the Black River which is located in Posey Co., Indiana, not Illinois; (see also McKnight #209); *Fontinalis biformis* (Fulton), *F. filiformis* (Fulton, Wabash), *F. hypnoides* (Fulton, Marion), *F. missourica* (Cook, Jackson, Will), and *F. novae-angliae* (Jackson, Peoria, Pope, Pulaski); specimens cited.
371. Welch, W.H. 1962. The Hookeriaceae of the United States and Canada. Bryologist 65:1-24. [1-M] *Hookeria acutifolia* from Clark Co., Vaughn 99 (MICH).
372. West, V., and R.E. Stotler. 1977. Saxicolous bryophyte and macrolichen associations in southern Illinois. II. Panther's Den, Union County. Bryologist 80:612-618. [21-H, 19-M] Ecological data and frequency measurements; *Bazzania tricenata*, *Herzogiella striatella*, and *Leucolejeunea uncioloba*; no specimens cited.
373. White, J., and M.H. Madamy. 1978. Classification of natural communities in Illinois. Appendix 30. Pages 309-405 in J. White (ed.), Illinois Natural Areas Inventory Technical Report. Vol. 1. Survey Methods and Results. Illinois Natural Areas Inventory, Urbana. 426 p. [3-M, 2-S] *Dicranum scoparium*, *Leucobryum glaucum*, *Polytrichum commune*, *Sphagnum recurvum*, and *Sphagnum* spp. from Illinois; no counties listed; no vouchers mentioned; p. 323,342.
374. Wiedman, J.E. 1971. The lichen flora of Rocky Branch Nature Preserve, Clark County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. iii + 109 p. [9-H, 17-M, 3-S] Notes and annotated checklist; *Porella pinnata* [?], *Sphagnum palustre*, *S. squarrosum*, and *S. tenerum*; no mention of vouchers.
375. Wiedman, J.E., and W. Whiteside. 1975. The lichen flora of Rocky Branch Nature Preserve Clark County, Illinois. Transactions of the Illinois State Academy of Science 68:102-117. [4-H, 14-M, 3-S] Notes and annotated checklist; reprint, with some omissions, of Wiedman (1971).
376. Wilcut, J.W. 1981. Moss sensitivity to sulphur dioxide. M.S. thesis. Eastern Illinois University, Charleston. x + 123 p. [4-M] *Aulacomnium heterostichum*, *Bartramia pomiformis*, *Leucobryum glaucum*, and *Polytrichum ohioense* from Illinois (R-4), vague dot maps; no mention of vouchers.
377. Williams, H. 1959. *Pterigoneuron ovatum* in Ontario. Bryologist 62:156-158. [1-M] *P. subsessile* collected in Illinois, according to Wareham (l.c.); no specimen cited.
378. Williams, R.A. 1980. A taxonomic and ecological study of the lichens in "Rocks Parks" in Coles County, Illinois. M.S. thesis. Eastern Illinois University, Charleston. iv + 24 p. [2-M] *Atrichum angustatum* and *Dicranum scoparium*; no specimens cited.
379. Williams, R.S. 1919. The genus *Desmatodon* in North America. Bulletin of the Torrey Botanical Club 46:207-220. [1-M] *D. porteri* from Illinois, no county listed; no specimen cited.
380. Winterringer, G.S. 1949. Rock-ledge vegetation in southern Illinois. Ph.D. dissertation. University of Illinois, Urbana-Champaign. vi + 174 p. [1-H, 13-M] Annotated checklist from R-5 (p. 117-120) with some specimens cited; reprinted in Winterringer & Vestal (1956).
381. Winterringer, G.S., and A.G. Lopinot. 1977. Aquatic plants of Illinois. Illinois State Museum Popular Series 6:1-142. [2-H] *Racca fluitans* and *Raccocarpus natalans* from unspecified Illinois locations (p. 26); no specimens cited.
382. Winterringer, G.S., and A.G. Vestal. 1956. Rock-ledge vegetation in southern Illinois. Ecological Monographs 26:105-130. [10-M] From R-5; reprinted from Winterringer (1949), with *Atrichum angustatum*, *Drunnmondia prorepens*, *Reboulia*, and *Wessia viridula* omitted.
383. Wolf, J., and E. Hall. 1878. A list of the mosses, liverworts

- and lichens of Illinois. *Bulletin of the Illinois State Laboratory of Natural History* 1:18-35. [4-A, 44-H, 168-M] Checklist from R-5 (0,1,10), Fulton (4,31,118), Johnson (0,8,5), Kane (0,0,3), Lee (0,0,1), Marion (0,0,1), Mason (0,0,1), McHenry (0,0,1), Menard (2,25,126), Ogle (0,0,1), Peoria (0,0,1), Pulaski (0,0,1), and Union (1,5,3) cos., as well as some from unspecified Illinois locations, no specimens cited; includes numerous questionable reports (see McKnight #207).
384. Wunderlin, R.P. 1967. A preliminary annotated checklist of the moss flora of Carroll County, Illinois. *Transactions of the Illinois State Academy of Science* 60:433-435. [49-M] Compiled primarily from the literature; *Rhytidium rugosum*.
385. Wynne, F.E. 1942. A revision of the North American species of *Drepanocladus*. Ph.D. dissertation. University of Michigan, Ann Arbor. [i] + 231 p. + 10 pl. + 13 maps. [1-M] "In eastern North America the boreal-montane species of *Drepanocladus* occur from the arctic southward to . . . Illinois;" map 9, *D. aduncus* var. *typicus* two locations on dot map in northeastern Illinois [Lake and approximately De Kalb cos.]; "on grassy tussocks in cold springy bog, Peoria [Tazewell Co.], Aug. 1906 F.E. McDonald (DUKE), Deer Lodge, 1888 Ro(8)(14)A(15)H (NY), very wet ground, Palos Park [Cook Co.], A.M. Taylor 109 (NY); p. 15 and 98.
386. Wynne, F.E. 1944. *Studies in Drepanocladus II. Taxonomy*. *Bryologist* 47:147-189. [1-M] *D. aduncus* var. *typicus* from R-2 (p. 256) two locations on dot map; exsiccata (p. 155) IL. N.A.M.Pl. 289 (MICH, NY).
387. Zales, W.M. 1967. *Studies of the capsule wall of selected Musci from Coles County*. M.S. thesis. Eastern Illinois University, Charleston. viii + 72 p. [50-M] *Tortula mucronifolia* and *Brotherella recurvans*; vouchers in author's collection but no specimens cited, some material from Tennessee and Wisconsin but not specified; black and white photomicrographs.
388. Zales, W.M. 1971. Bryophytes of Goose Lake Prairie, Illinois. *Transactions of the Illinois State Academy of Science* 64:222-224. [1-A, 6-H, 22-M, 1-S] Annotated checklist from Grundy Co.; specimens cited, vouchers at EIU.
389. Zales, W.M. 1973. A taxonomic revision of the genus *Philonotis* for North America north of Mexico. Ph.D. dissertation. University of British Columbia, Vancouver. vi + 166 p. [2-M] *P. fontana* var. *fontana* (Johnson, La Salle, Pope) and *P. marchica* (Lake, Menard); specimens cited.
390. Zander, R. 1967. The New World distribution of *Scapellophila* (= *Mercesia*). *Bryologist* 70:405-413. [1-M] *S. ligulata* from La Salle Co., from Jones (1961).
391. Zehr, D.R. 1976. An autecological investigation of selected bryophytes in three sandstone canyons in southern Illinois. M.S. thesis. Southern Illinois University, Carbondale. iii + 106 p. [3-H, 2-M] From R-5 and Jackson, Union, and Williamson cos.; no specimens cited; in-depth physiographic measurements; *Atrichum angustatum*, *Diphyscium foliosum*, *Lophocolea heterophylla*, *Nowellia curvifolia*, and *Trichocolea tonentella*; reprinted in Zehr (1977).
392. Zehr, D.R. 1977. An autecological investigation of selected bryophytes in three sandstone canyons in southern Illinois. *Bryologist* 80:571-583. [3-H, 2-M] Reprint, with omissions, of Zehr (1976).
393. Zehr, D.R. 1979. Phenology of selected bryophytes in southern Illinois. *Bryologist* 82:29-36. [3-H, 2-M] From R-5 and Jackson, Union, and Williamson cos.; no specimens cited.
394. Zehr, D.R. 1980. An assessment of variation in *Scapania nemorosa* and selected related species (Hepatophyta). Ph.D. dissertation. Southern Illinois University, Carbondale. [vii] + 140 p. [2-H] *S. nemorosa* (Fayette, Gallatin, Jackson, Johnson, La Salle, Pope, Saline) and *S. undulata* (La Salle, Saline); investigations of chromosomes, developmental morphology, isozymes, phenolics, terpenes; specimens cited; reprinted in Zehr (1980).
395. Zehr, D.R. 1980. An assessment of variation in *Scapania nemorosa* and selected related species (Hepatophyta). *Bryophytorum Bibliotheca* Vol. 15. J. Cramer, Vaduz, West Germany. xiv + 140 p. [2-H] Reprint, with omissions, of Zehr's (1980) dissertation.
396. Zehr, D.R., and R. Stotler. 1980. Liverworts and hornworts of Ferne Clyffe State Park, Johnson County, Illinois. *Transactions of the Illinois State Academy of Science* 73(4):41-44. [2-A, 38-H] Annotated checklist for Johnson Co. with specimens cited; *Lejeunea lamacerina* subsp. *gemminata*.

INDICES

The numbers following each division correspond to the numerical acronym preceding each publication listed in the bibliography.

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Nomenclature follows Stotler and Crandall-Stotler (1977) for the hornworts and liverworts, and Crum and Anderson (1981) and Crum (1983) for the mosses, except *Ctenidium* which follows Nishimura (1985) and *Didymodon* which follows Zander (1976), although some taxa are treated *sensu lato* (*s.l.*)

* = fossil reports only

[THIS LIST WAS GLEANED FROM THE LITERATURE AND WHILE I HAVE STUDIED SOME OF THE SPECIMENS I WILL NOT VOUCH FOR THE ACCURACY OF ALL REPORTS]

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- Mniium longirostrum* Brid. — 48, 139, 140, 143, 205, 209, 256, 257, 355
- Mniium marginatum* (With.) Brid. ex P.-Beauv. — 28, 31, 139, 165, 209, 211, 234, 238, 255, 256, 257, 269, 362, 383
- Mniium medium* BSG — 139, 190, 191, 205, 217, 218, 226, 266, 346, 355, 362
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- var. *punctatum* — 61, 192, 205, 211
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- Mniium stellare* Hedw. — 48, 139, 205, 211, 224, 225, 255, 256, 257, 319, 383, 384
- Mniium thomsonii* Schimp. — 205, 234, 253
- Myurella sibirica* (C.M.) Reim. — 52, 53, 54, 205
- Neckera pennata* Hedw. — 139, 205
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- Orthotrichum anomalum* Hedw. — 139, 174, 181, 205, 234, 359, 383
- Orthotrichum obtusifolium* Brid. — 387
- Orthotrichum ohioense* Sull. & Lesq. ex Aust. — 31, 51, 90, 139, 143, 271, 281, 304, 319, 321, 344, 359, 362
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- Orthotrichum sordidum* Sull. & Lesq. ex Aust. — 342
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- Orthotrichum stellatum* Brid. — 118, 205, 234, 359
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- Philonotis muhlenbergii* (Schwaegr.) Brid. — 55, 139, 205
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- Pogonatum pensilvanicum* (Hedw.) P.-Beauv. — 31, 32, 33, 53, 54, 55, 139, 144, 204, 205, 211, 234, 266, 307, 319, 321, 356, 362, 383, 387
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LIST OF SYNONYMS FOR BRYOPHYTES REPORTED FROM ILLINOIS

The current orthography or nomenclature is on the right, although some taxa are treated *sensu lato* (*s.l.*).

Anthocerotae and Hepaticae

Aneura latifolia = *Riccardia latifrons*
Aneura latifrons = *Riccardia latifrons*
Aneura multifida = *Riccardia multifida*
Aneura palmata = *Riccardia palmata*

Aneura sessilis = *Aneura pinguis*
Anthoceros carolinianus = *Phaeoceros larvax*
Anthoceros crispulus = *Anthoceros punctatus*
Anthoceros laciniatus = *Phaeoceros larvax*
Anthoceros larvax = *Phaeoceros larvax*
Anthoceros larvax var. *major* = *Phaeoceros larvax*

Anthoceros orbicularis = *Notothylas orbicularis*
Aplozia caespiticia = *Jungermannia caespiticia*
Aplozia lanceolata = *Jungermannia leiantha*
Asterella hemisphaerica = *Reboulia hemisphaerica*
Blepharozia ciliaris = *Platidium ciliare*
Calyptogea = *Calyptogea*
Calyptogea arguta = *Calyptogea sullivantii*
Calyptogea trichomanes = *Calyptogea muelleriana*
Calyptogea trichomanis = *Calyptogea muelleriana*
Cephalozia albescens = *Pleurocladia albescens*
Cephalozia curvifolia = *Nowellia curvifolia*
Cephalozia divaricata = *Cephaloziella divaricata*
Cephalozia media = *Cephalozia lunifolia*
Cephalozia multifida = *Cephalozia connivens*
Cephalozia multiflora = *Cephalozia connivens*
Cephalozia sullivantii = *Cephaloziella rubella* s.l.
Cephaloziella byssacea = *Cephaloziella divaricata*
Cephaloziella elachista var. *angustiloba* = *Cephaloziella elachista*
Cephaloziella myriantha = *Cephaloziella rubella* s.l.
Cephaloziella rubella var. *sullivantii* = *Cephaloziella rubella* s.l.
Cephaloziella spinigera = *Cephaloziella elachista*
Cephaloziella subdentata = *Cephaloziella elachista*
Cephaloziella sullivantii = *Cephaloziella rubella* s.l.
Chiloscyphus adscendens = *Chiloscyphus pallescens*
Chiloscyphus fragilis = *Chiloscyphus pallescens* var. *fragilis*
Clevea hyalina = *Athalama hyalina*
Coleochila taylori = *Mylia taylori*
Conocephalus conicus = *Conocephalum conicum*
Duxulia barbifrons = *Mannia fragrans*
Eucalyx hyalina = *Jungermannia hyalina*
Feguetella conica = *Conocephalum conicum*
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Fimbriaria tenella = *Asterella tenella*
Fruillania aeolotis = *Fruillania riparia*
Fruillania asagrayana = *Fruillania tamariscis* var. *asagrayana*
Fruillania grayana = *Fruillania tamariscis* var. *asagrayana*
Fruillania squarrosa = *Fruillania ericoides*
Fruillania virginica = *Fruillania eboracensis*
Geocalyx graveolus = *Geocalyx graveolens*
Grimaldia barbifrons = *Mannia fragrans*
Grimaldia fragrans = *Mannia fragrans*
Grimaldia rupestris = *Mannia triandra*
Jungermannia bicuspidata = *Cephalozia bicuspidata*
Jungermannia curvifolia = *Nowellia curvifolia*
Jungermannia divaricata = *Cephaloziella divaricata*
Jungermannia lanceolata = *Jungermannia leiantha*
Jungermannia schraderei = *Jamesoniella autumnalis*
Jungermannia sullivantiae = *Cephaloziella rubella*
Lejeunea calcarea = *Cololejeunea biddeleanae*
Lepidozia sylvatica = *Kurzia sylvatica*
Leposcyphus taylori = *Mylia taylori*
Lophocolea alata = *Lophocolea cuspidata* var. *alata*
Lophocolea bicuspidata = *Lophocolea cuspidata*
Lophocolea cuspidata fo. *alata* = *Lophocolea cuspidata* var. *alata*
Lophocolea hallii = *Lophocolea heterophylla*
Lophocolea macouni = *Lophocolea heterophylla*
Lunularia vulgaris = *Lunularia cruciata*
Madothea platyphylla = *Porella platyphylla*
Madothea porella = *Porella pinnata*
Madothea thuja — 102, 269 (= *Porella thuja* but North American reports are based on misdeterminations)
Mannia rupestris = *Mannia triandra*
Marsupella sullivantii — 308, 341 (= *M. sphaecolata* for Illinois reports, Crandall-Stotler & Renzaglia 1984)
Microlepidozia sylvatica = *Kurzia sylvatica*
Nardia crenulata = *Jungermannia gracillima*
Nardia hyalina = *Jungermannia hyalina*
Neesella rupestris = *Mannia triandra*
Notothylas valvata = *Notothylas orbicularis*
Odontoschisma sphagni = *Odontoschisma denudatum*

Phacoceros crispulus = *Anthoceros punctatus*
Plagiochila asplenoides = *Plagiochila porellodes*
Plagiochila interruptum = *Pedinophyllum interruptum*
Plagiochila microstoma = *Pedinophyllum interruptum*
Plectocolea crenulata = *Jungermannia gracillima*
Plectocolea crenuliformis = *Jungermannia crenuliformis*
Plectocolea fossombromioides = *Jungermannia fossombromioides*
Plectocolea hyalina = *Jungermannia hyalina*
Porella thuja = (misdeterminations North American specimens)
Preissia commutata = *Preissia quadrata*
Riccardia pinguis = *Aneura pinguis*
Riccia arvensis = *Riccia bifurca*
Riccia crystallina = *Riccia cavernosa*
Riccia frosti var. *major* = *Riccia frosti*
Riccia lescuriana = *Riccia beyrichiana*
Riccia lutescens = *Riccioarpus natans*
Riccia minima = *Riccia nigrella*
Riccia natans = *Riccioarpus natans*
Riccia velutina = *Riccia cavernosa*
Ricciella stuitans = *Riccia stuitans*
Ricciella stuitans var. *canaliculata* = *Riccia stuitans*
Ricciella stuitans var. *sullivantii* = *Riccia sullivantii*
Ricciella sullivantii = *Riccia sullivantii*
Riccioarpus = *Riccioarpus*
Solenostoma crenulata = *Jungermannia gracillima*
Solenostoma crenuliformis = *Jungermannia crenuliformis*
Solenostoma hyalinum = *Jungermannia hyalina*
Solenostoma pumilus = *Jungermannia pumila*
Trichocolea tomentella = *Trichocolea tomentella*

Musci (including sphagna)

Acaulon floerkeanum = *Phascum floerkeanum*
Acaulon rubrum = *Acaulon muticum*
Acaulon wolfii — 139, 383
Aloma aloides = *Aloma rigida*
Aloma aloides var. *ambigua* = *Aloma aloides*
Aloma ericaeola = *Phascum floerkeanum*
Amblystegiella adnata = *Homonallium adnatum*
Amblystegiella conferva = *Platydictya confervoides*
Amblystegiella minutissima = *Platydictya minutissima*
Amblystegiella subtilis = *Platydictya subtile*
Amblystegium brevipes = *Amblystegium riparium*
Amblystegium chrysophyllum = *Campyllum chrysophyllum*
Amblystegium compactum = *Conardia compactum*
Amblystegium confervoides = *Platydictya confervoides*
Amblystegium exannulatus = *Drepanocladus exannulatus*
Amblystegium filicinum = *Cratoneuron filicinum*
Amblystegium stuitans var. *plumosum* = *Drepanocladus stuitans*
Amblystegium stuvatile var. *orthocladon* = *Amblystegium stuvatile*
Amblystegium hispidulum = *Campyllum hispidulum*
Amblystegium hygrophyllum = *Campyllum radicale*
Amblystegium irriguum = *Amblystegium tenax*
Amblystegium irriguum spinifolium = *Amblystegium tenax* s.l.
Amblystegium jungermannioides = *Platydictya minutissimum*
Amblystegium juratzkanum = *Amblystegium serpens* var. *juratzkanum*
Amblystegium kochii = *Amblystegium humile*
Amblystegium laxiret = *Amblystegium riparium*
Amblystegium minutissimum = *Platydictya minutissimum*
Amblystegium orthocladon = *Amblystegium tenax* var. *tenax*
Amblystegium radicale = *Campyllum radicale*
Amblystegium riparium var. *abbreviatum* = *Amblystegium riparium*
Amblystegium riparium var. *carosum* = *Amblystegium riparium*
Amblystegium riparium var. *flaccidum* = *Amblystegium riparium*
Amblystegium riparium var. *stuitans* = *Amblystegium riparium*
Amblystegium riparium var. *kochii* = *Amblystegium riparium*
Amblystegium riparium var. *irichopodium* = *Amblystegium riparium*
Amblystegium serpens var. *hygrophyllum* = *Campyllum radicale*
Amblystegium serpens var. *radicale* = *Campyllum radicale*
Amblystegium serpens var. *tenax* = *Amblystegium serpens*
Amblystegium subtile = *Platydictya subtile*
Amblystegium trichopodium = *Amblystegium humile*
Amblystegium varium var. *lanceifolium* = *Amblystegium varium*

- Amblystegium varium* var. *ovatum* = *Amblystegium varium*
Amblystegium varium var. *parvulum* = *Amblystegium varium*
Angstroemia varia = *Dicranella varia*
Anomodon apiculatus = *Anomodon rugelii*
Anomodon obtusifolius = *Anomodon minor*
Anomodon tristis = *Haplophragma triste*
Aphanorrhagma serrata = *Aphanorrhagma serratum*
Aphanorrhagma patens = *Physcomitrella patens*
Astomum crispum = *Astomum muhlenbergianum*
Astomum nitidulum = *Astomum muhlenbergianum*
Astomum nitidulum var. *pygmaeum* = *Astomum muhlenbergianum*
Astomum sullivantii = *Astomum muhlenbergianum*
Atrichum allecristatum = *Atrichum undulatum* var. *allecristatum*
Atrichum angustatum var. *plurilamelatum* = *Atrichum angustatum*
Atrichum cylindricum = *Atrichum undulatum* var. *attenuatum*
Atrichum macmillanii = *Atrichum angustatum*
Atrichum oerstedianum = *Atrichum undulatum* var. *oerstedianum*
Atrichum undulatum var. *minus* = *Atrichum tenellum*
Aulacomnium palustre var. *polycephalum* = *Aulacomnium palustre*
Aulacomnium palustre = *Aulacomnium palustre*
Barbula acuminata = *Didymodon fallax* var. *fallax*
Barbula ambigua = *Phascum stoerckeanum*
Barbula caespitosa = *Tortella humilis*
Barbula cruegeri = *Barbula cancellata*
Barbula fallax = *Didymodon fallax* var. *fallax*
Barbula papillosa = *Tortula papillosa*
Barbula rigida = *Aloina rigida*
Barbula subulata = *Tortula subulata*
Barbula unguiculata var. *apiculata* = *Barbula unguiculata*
Bartramia crista = *Bartramia pomiformis*
Bartramia fontana = *Philonotis fontana*
Bartramia marchica = *Philonotis marchica*
Bartramia pomiformis var. *crista* = *Bartramia pomiformis*
Bartramia pomiformis var. *elongata* = *Bartramia pomiformis*
Bartramia radicalis = *Philonotis longistea*
Brachythecium acutum = *Brachythecium salebrosum*
Brachythecium cyrtophyllum = *Brachythecium acuminatum* var. *cyrtophyllum*
Brachythecium flagellare = *Brachythecium plumosum*
Brachythecium flexicaule = *Brachythecium calcareum*
Brachythecium laetum = *Brachythecium oxycladon*
Brachythecium novae-angliae = *Bryhnia novae-angliae*
Brachythecium oxycladon var. *dentatum* = *Brachythecium oxycladon*
Brachythecium pseudocollinum = *Brachythecium salebrosum*
Brachythecium rivulare var. *noveboracense* = *Brachythecium rivulare*
Brachythecium salebrosum var. *midreanum* = *Brachythecium salebrosum*
Brachythecium serrulatum = *Rhynchostegium serrulatum*
Bruchia beyrichiana = *Bruchia flexuosa*
Bruchia brevicollis = *Bruchia flexuosa*
Bruchia curviseta = *Bruchia flexuosa*
Bruchia donnelli = *Bruchia flexuosa*
Bruchia hallii = *Bruchia flexuosa* (for Illinois reports)
Bruchia sullivanti = *Bruchia flexuosa*
Bruchia texana = *Bruchia flexuosa*
Bryum affine = *Bryum creberrimum*
Bryum albicans = *Pohlia wahlenbergii*
Bryum angusirete = *Bryum algovicum*
Bryum argenteum var. *lanatum* = *Bryum argenteum*
Bryum atropurpureum = *Pohlia atropurpurea*
Bryum bimum = *Bryum pseudotriquetrum*
Bryum caespitosum = *Bryum caespiticium*
Bryum cernuum = *Bryum uliginosum*
Bryum cirratum = *Bryum creberrimum*
Bryum cuspidatum = *Bryum creberrimum*
Bryum intermedium = *Bryum creberrimum*
Bryum lescureanum = *Pohlia lescureana*
Bryum liaae var. *cuspidatum* = *Bryum creberrimum*
Bryum lonchocaulon = *Bryum creberrimum*
Bryum natans = *Pohlia nutans*
Bryum nutans = *Pohlia nutans*
Bryum obconicum = *Bryum capillare*
Bryum pendulum = *Bryum algovicum*
Bryum pyriforme = *Leptobryum pyriforme*
Bryum roseum = *Rhodobryum roseum*
Bryum taxifolius = *Fissidens taxifolius*
Bryum ventricosum = *Bryum pseudotriquetrum*
Bryum wahlenbergianum = *Pohlia wahlenbergii*
Calliergon cuspidatum = *Calliergonella cuspidata*
Calliergon schreberi = *Pleurozium schreberi*
Calliergonella schreberi = *Pleurozium schreberi*
Camptothecium lutescens — 138 (= *Homalothecium fulgenscens*, but the report is undoubtedly based on a misdetermination)
Camptothecium nitens = *Tomenthyllum nitens*
Camplium chrysophyllum var. *brevisifolium* = *Camplium chrysophyllum*
Camplium hispidulum var. *sommerfelii* = *Camplium hispidulum*
Campylopus flexuosus = *Campylopus tallulensis*
Campylopus leanus = *Brathera leana*
Catharinaea angustata = *Atrichum angustatum*
Catharinaea plurilamelata = *Atrichum angustatum*
Catharinaea undulata = *Atrichum undulatum*
Catharinaea undulata var. *attenuata* = *Atrichum undulatum* var. *attenuatum*
Chamberlainia acuminata = *Brachythecium acuminatum*
Chamberlainia acuminatum var. *rupincola* = *Brachythecium acuminatum* var. *cyrtophyllum*
Chamberlainia cyrtophyllum = *Brachythecium acuminatum*
Cirriphyllum boscii = *Bryoandersonia illecebra*
Cirriphyllum illecebrum = *Bryoandersonia illecebra*
Climacium americanum var. *kindbergii* = *Climacium americanum*
Climacium kindbergii = *Climacium americanum*
Conomitrium hallianum = *Fissidens fontanus*
Conomitrium julianus = *Fissidens fontanus*
Cryphaea inuncta = *Brachyleta subulatum*
Ctenidium molluscum = *Ctenidium malacodes*
Cylindrothecium brevisetus = *Entodon brevisetus*
Cylindrothecium cladorrhizans = *Entodon cladorrhizans*
Cylindrothecium compressum = *Entodon compressum*
Cylindrothecium seductrix = *Entodon seductrix*
Desmatodon arenaceus = *Desmatodon obtusifolius*
Desmatodon flavicans = *Desmatodon obtusifolius*
Dicranella debilis — 231 (= *Dicranella hilariana*, a tropical species surely not from Illinois)
Dicranella heteromalla var. *fitzgeraldii* = *Dicranella heteromalla*
Dicranella heteromalla var. *orthocarpa* = *Dicranella heteromalla*
Dicranella rubra = *Dicranella varia*
Dicranella varia var. *tenella* = *Dicranella varia*
Dicranoweisia cirrhata = *Dicranoweisia cirrata*
Dicranum alatum = *Dicranum scoparium*
Dicranum bergeri = *Dicranum undulatum*
Dicranum bonjeanii = *Dicranum scoparium*
Dicranum bonjeanii var. *alatum* = *Dicranum scoparium*
Dicranum heteromallum = *Dicranella heteromalla*
Dicranum leoparium var. *pallidum* = *Ditrichum pallidum*
Dicranum palustre = *Dicranum scoparium*
Dicranum rufescens = *Dicranella rufescens*
Dicranum rugosum = *Dicranum polysetum*
Dicranum subuletorum = *Dicranum condensatum*
Dicranum scoparium var. *condensatum* = *Dicranum condensatum*
Dicranum scoparium var. *pallidum* = *Dicranum scoparium*
Dicranum spurium var. *condensatum* = *Dicranum condensatum*
Dicranum varium = *Dicranella varia*
Didymodon recurvirostris = *Bryoxytrichum recurvirostrum*
Didymodon rubellus = *Bryoxytrichum recurvirostrum*
Didymodon trifarius = *Didymodon rigidulus*
Disclium incarnata = *Disclium nudum*
Ditrichum tortile = *Ditrichum pusillum*
Drepanocladus aduncus f. *aquaticus* = *Drepanocladus aduncus*
Drepanocladus aduncus var. *attenuatus* = *Drepanocladus aduncus*
Drepanocladus aduncus var. *graciliscens* = *Drepanocladus aduncus* var. *polycarpus*
Drepanocladus aduncus var. *typicus* = *Drepanocladus aduncus* var. *aduncus*
Drepanocladus intermedium = *Drepanocladus rivulens*
Drepanocladus seldneri = *Drepanocladus aduncus*
Drepanocladus wintii = *Drepanocladus aduncus* var. *aduncus*
Drummondia clavellata = *Drummondia protrepens*

Elodium paludosum = *Helodium paludosum*
Encalypta streptocarpa = *Encalypta proera*
Entodon challengeri = *Entodon compressus*
Entodon seductrix var. *lanceolata* = *Entodon seductrix*
Entosthodon neocotticus = *Desmatodon randii*
Ephemerum crassinervium var. *papillosum* = *Ephemerum crassinervium*
Ephemerum spinulosum var. *hystrix* = *Ephemerum spinulosum*
Ephemerum spinulosum var. *texanum* = *Ephemerum crassinervium*
Eurhynchium novae-angliae = *Bryhnia novae-angliae*
Eurhynchium praelongum = *Stokesiella praelongum*
Eurhynchium pulchellum var. *praecox* = *Eurhynchium pulchellum*
Eurhynchium pulchellum var. *robustum* = *Eurhynchium pulchellum*
Eurhynchium serrulatum = *Rhynchostegium serrulatum*
Eurhynchium strigosum = *Eurhynchium pulchellum*
Eurhynchium strigosum var. *robustum* = *Eurhynchium pulchellum*
Fabroleskea austinii = *Lindbergia brachyptera*
Fabronia octolepharis = *Fabronia cilicaris*
Fabronia splachnoides = *Anacamptodon splachnoides*
Fissidens bryoides var. *inconstans* = *Fissidens bryoides*
Fissidens bryoides var. *incurvus* = *Fissidens bryoides*
Fissidens debilis = *Fissidens fontanus*
Fissidens decipiens = *Fissidens cristatus*
Fissidens exiguus = *Fissidens bryoides*
Fissidens halbianus = *Fissidens fontanus*
Fissidens inconstans = *Fissidens bryoides*
Fissidens incurvus = *Fissidens bryoides*
Fissidens incurvus var. *minutulus* = *Fissidens bryoides*
Fissidens julianus = *Fissidens fontanus*
Fissidens minutulus = *Fissidens bryoides*
Fissidens minutulus = *Fissidens bryoides*
Fissidens pusillus = *Fissidens bryoides*
Fissidens synoicus = *Fissidens bryoides*
Fissidens viridulus = *Fissidens bryoides*
Fissidens viridulus var. *brevifolius* = *Fissidens bryoides*
Fontinalis biformis = *Fontinalis sphagnifolia*
Fontinalis disticha = *Fontinalis sullivantii*
Fontinalis duriae = *Fontinalis hypnoides*
Fontinalis hypnoides var. *duriae* = *Fontinalis hypnoides*
Fontinalis lescuirii = *Fontinalis novae-angliae*
Fontinalis novae-angliae var. *latifolia* = *Fontinalis novae-angliae*
Fontinalis umbacii = *Fontinalis missouriica*
Forsstroemia trichomitria var. *immersus* = *Forsstroemia trichomitria*
Fumeria microstoma = *Funaria flavicans*
Funaria hygrometrica var. *calvescens* = *Funaria hygrometrica*
Funaria microstoma = *Funaria flavicans* (IL. material, Crum & Anderson 1981)
Georgia pellucida = *Tetraphis pellucida*
Grimmia alpicola = *Grimmia rivularis*
Grimmia apocarpa var. *alpicola* = *Grimmia rivularis*
Grimmia apocarpa var. *stricta* = *Grimmia apocarpa* var. *gracilis*
Grimmia commutata = *Grimmia ovalis*
Grimmia conferta = *Grimmia rivularis*
Grimmia confertum = *Grimmia rivularis*
Grimmia controverta = *Grimmia rivularis*
Grimmia controverta var. *obtusifolia* = *Grimmia rivularis*
Grimmia convertum = *Grimmia rivularis*
Grimmia drummondii = *Ptychomitrium drummondii*
Grimmia ovata = *Grimmia affinis*
Gymnostomum acuminatum = *Physcomitrium pyriforme*
Gymnostomum calcareum = *Gymnostomum aeruginosum*
Gymnostomum curvirostre = *Gymnostomum recurvirostrum*
Gymnostomum immersum = *Physcomitrium immersum*
Gymnostomum recurvirostrum var. *latifolium* = *Gymnostomum recurvirostrum*
Gymnostomum rupestre = *Gymnostomum aeruginosum*
Harpidium aduncum = *Drepanocladus aduncus*
Hedwigia albicans = *Hedwigia ciliata*
Hedwigia ciliata var. *viridis* = *Hedwigia ciliata*
Helodium paludosum var. *elodioides* = *Helodium blandowii* var. *elodioides*
Heterophyllum haldanianum = *Callicladium haldanianum*
Homalothecium subcapillatum = *Homalothecella subcapitata*
Homolothecium subcapillatum = *Homalothecella subcapitata*

Hygroamblystegium fluviatile = *Amblystegium fluviatile*
Hygroamblystegium fluviatile fo. *brevifolium* = *Amblystegium fluviatile*
Hygroamblystegium fluviatile var. *orthocladon* = *Amblystegium tenax*
Hygroamblystegium fluviatile var. *ovatum* = *Amblystegium fluviatile*
Hygroamblystegium irriguum = *Amblystegium tenax*
Hygroamblystegium orthocladon = *Amblystegium tenax*
Hygroamblystegium tenax = *Amblystegium tenax*
Hylocomium triquetrum = *Rhydiadelphus triquetrus*
Hymenostylium curvirostre = *Gymnostomum recurvirostrum*
Hyophila tortula = *Hyophila involuta*
Hypnum acuminatum = *Brachythecium acuminatum*
Hypnum aduncum = *Homomallium aduncum*
Hypnum aduncum gracilescens = *Drepanocladus aduncus* var. *polycarpus*
Hypnum acutum = *Brachythecium salebrosus*
Hypnum aduncum = *Drepanocladus aduncus*
Hypnum aduncum = *Drepanocladus aduncus*
Hypnum alleghaniense = *Thamnobryum alleghaniense*
Hypnum arcuatum = *Hypnum lindbergii*
Hypnum arcuatum var. *americanum* = *Hypnum lindbergii*
Hypnum boscii = *Bryandersonia illecebra*
Hypnum chrysophyllum = *Campyllum chrysophyllum*
Hypnum collinum = *Brachythecium collinum*
Hypnum confervoides = *Platydictya confervoides*
Hypnum convertum = *Pyliasiella polyantha*
Hypnum crista-castrensis = *Ptilium crista-castrensis*
Hypnum cuspidatum = *Calliergonella cuspidata*
Hypnum cylindrocarpum = *Brotherella tenuirostris*
Hypnum dehatulum = *Thuidium dehatulum*
Hypnum denticulatum = *Plagiothecium denticulatum*
Hypnum deplanatum = *Taxiphyllum deplanatum*
Hypnum dimorphum = *Heterocladium dimorphum*
Hypnum diversifolium = *Eurhynchium pulchellum*
Hypnum elegans = *Isopterygium elegans*
Hypnum exannulatus = *Drepanocladus exannulatus*
Hypnum fluitans = *Drepanocladus fluitans*
Hypnum fluviatile = *Amblystegium fluviatile*
Hypnum gracile = *Bryohaplodadium microphyllum* (or) *Myurella sibirica*
Hypnum haldanianum = *Callicladium haldanianum*
Hypnum hians = *Eurhynchium hians*
Hypnum hispidulum = *Campyllum hispidulum*
Hypnum laetum = *Brachythecium oxycladon*
Hypnum lutescens = *Campiothecium lutescens*
Hypnum micans var. *album* = *Isopterygium tenerum*
Hypnum microcarpum = *Sematophyllum adnatum*
Hypnum minutulum = *Thuidium minutulum*
Hypnum molluscum = *Climidium malacodes*
Hypnum nitens = *Tomenthypnum nitens*
Hypnum novae-angliae = *Bryhnia novae-angliae*
Hypnum orthocladon = *Amblystegium tenax*
Hypnum oxycladon = *Brachythecium oxycladon*
Hypnum patientiae = *Hypnum lindbergii*
Hypnum polygamum = *Campyllum polygamum*
Hypnum polymorphum = *Campyllum chrysophyllum*
Hypnum radicale = *Campyllum radicale*
Hypnum recognitum = *Thuidium recognitum*
Hypnum reptile = *Hypnum pallescens*
Hypnum riparium = *Amblystegium riparium*
Hypnum riparium var. *cariosum* = *Amblystegium riparium*
Hypnum rivulare = *Brachythecium rivulare*
Hypnum rostratum = *Anomodon rostratum*
Hypnum rutabulum = *Brachythecium rutabulum*
Hypnum salebrosus = *Brachythecium salebrosus*
Hypnum schreberi = *Pleurozium schreberi*
Hypnum serpens = *Amblystegium serpens*
Hypnum serpens var. *orthocladon* = *Amblystegium tenax*
Hypnum serpens var. *radicale* = *Campyllum radicale*
Hypnum serrulatum = *Rhynchostegium serrulatum*
Hypnum sommerfeldtii = *Campyllum hispidulum*
Hypnum stellatum = *Campyllum stellatum*
Hypnum strigosum = *Eurhynchium pulchellum*
Hypnum subtile = *Platydictya subtile*
Hypnum sullivantii = *Bryhnia grammicola*

- Hypnum tamariscinum* = *Thuidium delicatulum*
Hypnum tenuirostris = *Brotherella tenuirostris*
Hypnum triquetrum = *Rhynidiadelphus triquetrum*
Isoeterygium borrierianum = *Isoeterygium elegans*
Isoeterygium deplanatum = *Taxiphyllum deplanatum*
Isoeterygium geophilum = *Taxiphyllum taxirameum*
Isoeterygium micans = *Isoeterygium tenerum*
Isoeterygium taxirameum = *Taxiphyllum taxirameum*
Isoeterygium turfaceum = *Herzogella turfacea*
Leptobryum nutans = *Leptobryum pyriforme*
Leptodietyum brevipes = *Amblystegium riparium*
Leptodietyum laxirete = *Amblystegium riparium*
Leptodietyum riparium = *Amblystegium riparium*
Leptodietyum riparium fo. *flaccida* = *Amblystegium riparium*
Leptodietyum trichopodium = *Amblystegium humile*
Leptodietyum trichopodium var. *kochii* = *Amblystegium humile*
Leptonotum ohioensis = *Forsstroemia ohioensis*
Leptonotum trichomitron = *Forsstroemia trichomitria*
Leptonotum trichomitron var. *immersum* = *Forsstroemia trichomitria*
Leptotrichum pallidum = *Ditrichum pallidum*
Leptotrichum tortile = *Ditrichum pusillum*
Leskea arenicola = *Leskea polycarpa*
Leskea austini = *Lindbergia brachyptera*
Leskea denticulata = *Schwetschkeopsis fabronia*
Leskea nervosa = *Leskeella nervosa*
Leskea polyantha = *Pylaisiella polyantha*
Leskea polycarpa var. *paludosa* = *Leskea polycarpa*
Leskea rostrata = *Anomodon rostratus*
Leskea tristis = *Haplophragma triste*
Leskea viticulosus = *Anomodon viticulosus*
Leucobryum glaucum var. *minus* = *Leucobryum albidum*
Leucobryum minus = *Leucobryum albidum*
Leucobryum vulgare = *Leucobryum glaucum*
Leucodon scurroides = *Leucodon brachypus* var. *andrewsonianus*
Lindbergia brachyptera var. *austini* = *Lindbergia brachyptera*
Meesia hexasticha = *Meesia longiseta*
Merceya ligulata = *Scopelophila ligulata*
Microbryum floerkeanum = *Phascum floerkeanum*
Mniobryum albicans = *Pohlia wahlenbergii*
Mniobryum wahlenbergianum = *Pohlia wahlenbergii*
Mnium ciliare = *Mnium affine* var. *ciliare*
Mnium flagellare — 362 (a legitimate species, but the report from Illinois is absolutely illegitimate)
Mnium orthorrhynchum = *Mnium thomsonii*
Mnium rostratum = *Mnium longirostrum*
Mnium rugicum = *Mnium affine* var. *rugicum*
Mnium serratum = *Mnium marginatum*
Mnium trichomanes — 49 (a legitimate species, but the report is referable to *Mnium cuspidatum*)
Myurella careyana = *Myurella sibirica*
Neckera cladorrhizans = *Entodon cladorrhizans*
Neckera filiforme = *Pterigynandrum filiforme*
Neckera pseudopecura = *Leucodon julaceus*
Neckera sedatrix = *Entodon seductrix*
Ocotidiceras debilis = *Fissidens fontanus*
Ocotidiceras hallianum = *Fissidens fontanus*
Orthotrichum canadense = *Orthotrichum anomalum*
Orthotrichum crispulum = *Ulota crispa*
Orthotrichum cupulatum = *Orthotrichum strangulatum*
Orthotrichum fallax = *Orthotrichum pumilum*
Orthotrichum fallax var. *truncatulum* = *Orthotrichum pumilum*
Orthotrichum porteri = *Orthotrichum strangulatum*
Orthotrichum schimperi = *Orthotrichum pumilum*
Pharomitrium exiguum = *Pterigoneuron subsessile*
Pharomitrium subsessile = *Pterigoneuron subsessile*
Phascacea triquetrum = *Acaulon triquetrum*
Phascum alternifolium = *Archidium alternifolium*
Phascum crassinervium = *Ephemerum crassinervium*
Phascum cohaerens = *Ephemerum cohaerens*
Phascum cuspidatum var. *americanum* = *Phascum cuspidatum*
Phascum nidulum = *Astomum muhlenbergianum*
Phascum patens = *Phycomitrella patens*
Phascum schimperianum = *Acaulon schimperianum*
Phascum strangulatum = *Phycomitrium pyriforme*
Phascum subulatum = *Pleuridium subulatum*
Phascum sullivantii = *Astomum muhlenbergianum*
Philonotis caespitosa = *Philonotis fontana* var. *caespitosa*
Phycomitrium acuminatum = *Phycomitrium pyriforme*
Phycomitrium australe = *Phycomitrium pyriforme*
Phycomitrium drummondii = *Phycomitrium pyriforme*
Phycomitrium pyriforme var. *serratum* = *Phycomitrium pyriforme*
Phycomitrium turbidum = *Phycomitrium pyriforme*
Plagiomnium affine var. *ciliare* = *Mnium affine* var. *ciliare*
Plagiomnium ciliare = *Mnium affine* var. *ciliare*
Plagiomnium cuspidatum = *Mnium cuspidatum*
Plagiomnium medium = *Mnium medium*
Plagiomnium rugicum = *Mnium affine* var. *rugicum*
Plagiothecium deplanatum = *Taxiphyllum deplanatum*
Plagiothecium elegans = *Isoeterygium elegans*
Plagiothecium geophilum = *Taxiphyllum taxirameum*
Plagiothecium micans = *Isoeterygium tenerum*
Plagiothecium micans var. *abulum* = *Isoeterygium tenerum*
Plagiothecium muellerianum = *Isoeterygiopsis muelleriana*
Plagiothecium pulchellum = *Isoeterygium pulchellum*
Plagiothecium roseanum = *Plagiothecium cavifolium*
Plagiothecium silesiacum = *Herzogella striatella*
Plagiothecium silvaticum = *Plagiothecium cavifolium*
Plagiothecium sylvaticum = *Plagiothecium cavifolium*
Plagiothecium sylvaticum var. *sullivantii* = *Plagiothecium cavifolium*
Pleuridium acuminatum = *Pleuridium subulatum*
Pleuridium alternifolium = *Pleuridium subulatum*
Pleuridium alternifolium var. *robustum* = *Pleuridium subulatum*
Pogonatum brevicale = *Pogonatum pensilvanicum*
Pohlia carnea = *Pohlia melanodon*
Polytrichum commune var. *uliginosum* = *Polytrichum commune*
Polytrichum deprensens = *Polytrichum pallidisetum*
Polytrichum gracile = *Polytrichum longisetum*
Polytrichum juniperinum var. *affine* = *Polytrichum strictum*
Polytrichum juniperinum var. *gracilissimum* = *Polytrichum strictum*
Polytrichum juniperinum var. *rubrum* = *Polytrichum juniperinum*
Poroctrichum alleghaniense = *Thamnobryum alleghaniense*
Potlia exigua = *Pterigoneuron subsessile*
Potlia exiguum = *Pterigoneuron subsessile*
Potlia randii = *Desmatodon randii*
Potlia subsessile = *Pterigoneuron subsessile*
Potlia truncatula = *Potlia truncata*
Pterigoneuron subsessile = *Pterigoneuron subsessile*
Pylaisia denticulata = *Pylaisiella polyantha*
Pylaisia polyantha = *Pylaisiella polyantha*
Pylaisia schimperi = *Pylaisiella selwynii*
Pylaisia splachnoides = *Anacamptodon splachnoides*
Pylaisia subdenticulata = *Pylaisiella polyantha*
Pylaisaea intricata = *Pylaisiella intricata*
Pylaisaea velutina = *Pylaisiella intricata*
Raphidostegium adnatum = *Sematophyllum adnatum*
Raunia scita = *Thuidium setum*
Rhacomitrium heterostichum var. *subsectum* = *Rhacomitrium heterostichum*
Rhacomitrium sudeticum = *Rhacomitrium heterostichum*
Rhizomnium punctatum ssp. *chlorophyllum* = *Mnium punctatum* var. *punctatum*
Rhynchostegella compacta = *Conardia compacta*
Rhynchostegium compacta = *Conardia compacta*
Rhynchostegium hians = *Eurhynchium hians*
Rhynchostegium pulchellum var. *praecox* = *Eurhynchium pulchellum*
Rhynchostegium pulchellum var. *pulchellum* = *Eurhynchium pulchellum*
Rhynchostegium rparioides = *Eurhynchium rparioides*
Schistidium agassizii = *Grimmia agassizii*
Schistidium alpicola = *Grimmia rularis*
Schistidium apocarpum = *Grimmia apocarpa* var. *gracilissimum*
Schistidium convertum = *Grimmia rularis*
Schwetschkeopsis denticulata = *Schwetschkeopsis fabronia*
Sematophyllum carolinianum = *Sematophyllum demissum*
Sharpella turfacea = *Herzogella turfacea*
Sphaerangium muticum = *Acaulon muticum*

Sphaerangium schimperianum = *Acaulon schimperianum*
Sphaerangium triquetrum = *Acaulon triquetrum*
Sphagnum acutifolium = *Sphagnum capillifolium*
Sphagnum angustifolium = *Sphagnum recurvum* var. *tenue*
Sphagnum capillaceum = *Sphagnum capillifolium*
Sphagnum capillifolium var. *tenerum* = *Sphagnum tenerum*
Sphagnum contortum = *Sphagnum subsecundum* var. *contortum*
Sphagnum cymbilifolium = *Sphagnum palustre*
Sphagnum lescurei = *Sphagnum subsecundum* var. *rufescens*
Sphagnum nemoreum = *Sphagnum capillifolium* var. *capillifolium*
Sphagnum platyphyllum = *Sphagnum subsecundum* var. *platyphyllum*
Sphagnum rubellum = *Sphagnum capillifolium* var. *tenellum*
Sphagnum subtile = *Sphagnum capillifolium* var. *tenellum*
Sphagnum trinitense = *Sphagnum cuspidatum* var. *serretatum*
Stegium crispum = *Astomum muhlenbergianum*
Stegium nitidulum = *Astomum muhlenbergianum*
Stegium sullivantii = *Astomum muhlenbergianum*
Stereodon arcuatus = *Hypnum lindbergii*
Stereodon haldanianus = *Callicladium haldanianum*
Stereodon pratense = *Hypnum pratense*
Thamnum alleghaniense = *Thamnobryum alleghaniense*
Thuidium elodioides = *Helodium blandowii* var. *elodioides*
Thuidium microphyllum = *Bryohaplodadium microphyllum*
Thuidium philebertii = *Thuidium delicatulum* var. *radicans*
Thuidium pygmaeum = *Thuidium pygmaeum*
Thuidium virginianum = *Bryohaplodadium virginianum*
Tortella caespitosa = *Tortella humilis*
Tortula marginata = *Tortula muralis*
Tortula rigida = *Aloina rigida*
Tortula stellata = *Aloina rigida*
Trichostomum pallidum = *Ditrichum pallidum*
Trichostomum rigidulus = *Didymodon rigidulus*
Trichostomum tophaceus = *Didymodon tophaceus*
Trichostomum tortile = *Ditrichum pusillum*
Ulota crispa var. *crispulum* = *Ulota crispa*
Ulota crispula = *Ulota crispa*
Webera lescuriana = *Pohlia lescuriana*
Webera nutans = *Pohlia nutans*
Webera albicans = *Pohlia wahlenbergii*
Weissia controversa var. *wolfii* = *Weissia controversa*
Weissia microstoma = *Weissia hedwigii*

Weissia mucronata — 1877, 383 (a European species probably referable to *W. controversa*)
Weissia muhlenbergiana = *Astomum muhlenbergianum*
Weissia viridula = *Weissia controversa*
Weissia viridula var. *gymnostomoides* = *Weissia controversa*
Weissia wolfii = *Weissia controversa*

BRYOPHYTE TYPES FROM ILLINOIS

The following seven species have their type locality in Illinois. However, all are currently recognized as synonyms with the correct name listed. Also given is the location, voucher data, and reference.

- Conomitrium hallianum* (= *Fissidens fontanus*) Fulton Co. (*E. Hall s.n.*) in Ireland & Ley 1984
Dicranum boyeanii var. *alatum* (= *Dicranum scoparium*) Chicago [Cook Co.] no specimen cited, in Barnes 1897
Eurhynchium strigosum var. *robustum* (= *Eurhynchium pulchellum*) vicinity of Chicago [Cook Co.] (*Grout 131*) in Grout 1928
Fabroleskea austrii (= *Lindbergia brachyptera*) Illinois (no county listed) (*Wolf s.n.*) in Best 1898
Fissidens hallianus (= *Fissidens fontanus*) Menard Co. (*Hall s.n.*) in Grout 1936 and 1943
Leskea austrii (= *Lindbergia brachyptera*) Fulton Co. (*E. Hall s.n.*) in Ireland & Ley 1984
Lindbergia brachyptera var. *austrii* (= *Lindbergia brachyptera*) Illinois (according to Best) no specimen cited, in Grout 1934

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