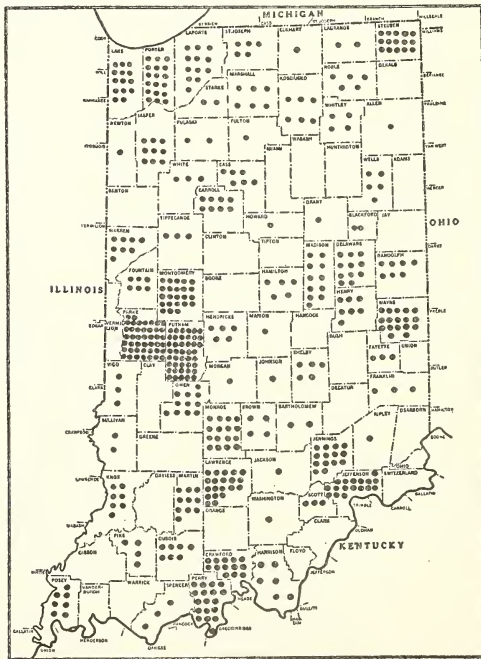


Additional Distribution Records of Hepaticae in Indiana

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The study of liverworts in Indiana during the last ten years is represented principally by four publications by Dr. Dorthy Parker. These papers have increased considerably the number of species known to occur in Indiana and have added much information concerning the distribution of species within the state. During the past year, a study of several collections of Indiana liverworts has extended the known local distribution of a number of species. However, there is still much work to be done as is indicated by the accompanying map which shows the number of species reported for each county. This number represents the total of all reports of Indiana liverworts starting with that of Mary P. Haines in 1879. Reference to the map shows that twenty-seven counties still have no species reported and twenty-eight counties have only one to four species reported.



Number of species of liverworts reported for each county as of October 1, 1946. One dot represents one species.

The writer is indebted to Dr. T. G. Yuncker and Dr. Winona H. Welch for suggestion of the problem and for their counsel throughout the study; to Dr. Donald Richards, Chicago Museum of Natural History, for the loan of specimens; to Dr. Fred Seaver, New York Botanical Garden, for making the resources of that institution available; to all those whose names appear as collectors of the specimens cited, among whom is mentioned in particular Dr. Welch whose extensive collection of liverworts forms the basis of this study.

The list of specimens examined gives only new county records and no attempt is made to give all of the citations found for each county. Unless otherwise stated, all specimens may be found in the DePauw University herbarium. Specimens to be found in the herbarium of the Chicago Natural History Museum are indicated by C.M. following the citation; those in the New York Botanical Garden Herbarium by N.Y.

Specimens Examined

Ptilidium pulcherrimum (Weber) Hampe: Delaware Co., Apr. 10, 1938, E. Harger 334; Henry Co., Apr. 10, 1936, E. Harger 175; Parke Co., July 19, 1937, W. H. Welch 6825 in part; Steuben Co., Oct. 27, 1945, K. Wagner 754.

Blepharostoma trichophyllum (L.) Dumortier: Putnam Co., Mar., 1935, W. H. Welch 8350 in part.

Trichocolea tomentella (Ehrhardt) Nees: Laporte Co., Aug. 13, 1935, C. Deam 56,586.

Calypogeia Trichomanis (L.) Corda: Jasper Co., Apr. 7, 1939, W. H. Welch 8673, 8722; Montgomery Co., Aug. 6, 1937, W. H. Welch 8893, 8909; Porter Co., July 27, 1935, W. H. Welch 8279, 8550; Putnam Co., Oct. 13, 1945, K. Wagner 696, 701.

Cephalozia media Lindberg: Putnam Co., Oct. 13, 1945, K. Wagner 710 in part.

Cephalozia connivens (Dickson) Lindberg: Montgomery Co., Aug. 6, 1937, W. H. Welch 8904 in part; Parke Co., Nov. 5, 1945, K. Wagner 800; Steuben Co., Oct. 27, 1945, K. Wagner 769, 801.

Nowellia curvifolia (Dickson) Mitten: Jefferson Co., July 8, 1937, W. H. Welch 8513; Steuben Co., July 18, 1935, W. H. Welch 8189.

Lophocolea heterophylla (Schrader) Dumortier: Cass Co., Nov. 26, 1937, W. H. Welch 8679, 8690; Carroll Co., Aug. 5, 1935, W. H. Welch 5344, 8526; Delaware Co., Apr. 10, 1938, E. Harger 340; Harrison Co., July 10, 1937, W. H. Welch 8790; Henry Co., Apr. 12, 1936, E. Harger 71; Jasper Co., July 25, 1935, W. H. Welch 8848; Knox Co., July 12, 1937, W. H. Welch 7823; Lawrence Co., Sept. 5, 1946, K. Wagner 1361; Madison Co., Aug. 7, 1935, W. H. Welch 5830, 5831; Marshall Co., July 17, 1935, W. H. Welch 8390, 8506; Monroe Co., May 3, 1931, W. H. Welch 8315; Noble Co., Sept. 5, 1935, W. H. Welch 8531, 8533; Starke Co., July 16, 1935, W. H. Welch 8485, 8507; Steuben Co., Oct. 27, 1945, K. Wagner 757, 802; Warren Co., Nov. 27, 1937, W. H. Welch 8684, 8701; White Co., Aug. 6, 1935, W. H. Welch 8495.

Lophocolea minor Nees: Carroll Co., Aug. 6, 1935, W. H. Welch 8319; Jasper Co., Aug. 30, 1935, W. H. Welch 8333; Porter Co., July 26, 1935, W. H. Welch 8537, 8543; Steuben Co., July 18, 1935, W. H. Welch 8519 in part.

Geocalyx graveolens (Schrader) Nees: Marshall Co., July 17, 1935, W. H. Welch 8534; Montgomery Co., Aug. 6, 1937, W. H. Welch 8904; Noble Co., Sept. 5, 1935, W. H. Welch 8373; Porter Co., July 26, 1935, W. H. Welch 8600; Steuben Co., July 18, 1935, W. H. Welch 8377.

Chiloscyphus pallescens (Ehrhardt) Dumortier: Jennings Co., July 3, 1937, W. H. Welch 6331, 8711; Lawrence Co., Sept. 5, 1946, K. Wagner 1359; Madison Co., Aug. 7, 1935, W. H. Welch 8185, 8492; Martin Co., July 1, 1937, W. H. Welch 6325; Owen Co., June 30, 1937, W. H. Welch 6328; Steuben Co., July 18, 1935, W. H. Welch 8530, 8544.

Jungermannia lanceolata Schrader: Parke Co., Nov. 5, 1945, K. Wagner 797, 799.

Jamesoniella autumnalis (De Candolle) Stephani: Delaware Co., Aug. 8, 1935, W. H. Welch 8471; Parke Co., 1937, R. Drexler 1129; Perry Co., July 11, 1937, W. H. Welch 8196 in part; Vigo Co., Oct., 1893, L. Underwood (N.Y.).

Plectocolea crenuliformis (Austin) Mitten: Crawford Co., May 10, 1941, W. H. Welch 6832, 6834; Dubois Co., July 13, 1937, W. H. Welch 6768 in part; Fountain Co., July 18, 1937, W. H. Welch 8879; Perry Co., July 14, 1937, W. H. Welch 6359, 6824.

Plectocolea hyalina (Lyell) Mitten: Dubois Co., July 13, 1937, W. H. Welch 6770; Jasper Co., July 25, 1935, W. H. Welch 8776; Montgomery Co., Oct. 2, 1938, W. H. Welch 8914; Perry Co., July 14, 1937, W. H. Welch 6812, 8884.

Plagiochila asplenioides (L.) Dumortier: Madison Co., Aug. 7, 1935, W. H. Welch 8460; Montgomery Co., Aug. 6, 1937, W. H. Welch 8889; Porter Co., July 27, 1935, W. H. Welch 8558 in part.

Scapania nemorosa (L.) Dumortier: Jasper Co., July 25, 1935, W. H. Welch 8553; Martin Co., July 1, 1937, W. H. Welch 8509; Montgomery Co., Oct. 2, 1938, W. H. Welch 8915; Owen Co., June 30, 1937, W. H. Welch 8200.

Porella pinnata L.: Jennings Co., July 2, 1937, W. H. Welch 8710; Knox Co., July 12, 1937, W. H. Welch 6762, 8576; Lawrence Co., Sept. 5, 1946, K. Wagner 1354; Owen Co., July 3, 1942, W. H. Welch 7514 (N.Y.); Perry Co., July 14, 1937, W. H. Welch 8562; Randolph Co., Oct. 21, 1945, K. Wagner 746.

Porella platyphylla (L.) Lindberg: Cass Co., Apr. 6, 1939, W. H. Welch 8739; Harrison Co., July 19, 1937, W. H. Welch 8789; Hendricks Co., Mar. 5, 1946, K. Wagner 804, 806; Kosciusko Co., Aug. 30, 1941, W. H. Welch 8463; Noble Co., Sept. 5, 1935, W. H. Welch 8286; Owen Co., May 23, 1937, W. H. Welch 8169; Porter Co., July 7, 1929, P. C. Standley 57,287 (C.M.); Posey Co., July 12, 1937, W. H. Welch 8561; Pulaski Co., July 16, 1935, W. H. Welch 8190; Steuben Co., July 18, 1935, W. H.

Welch 8219, 8545; Wayne Co., Oct. 9, 1939, King 63; White Co., Aug. 6, 1935, W. H. Welch 8394; Whitley Co., Aug. 11, 1935, E. Harger.

Porella platyphylloidea (Schweinitz) Lindberg: Blackford Co., Mar. 29, 1936, E. Harger 87; Grant Co., Mar. 20, 1938, E. Harger 233; Harrison Co., July 19, 1937, W. H. Welch 7818; Henry Co., Oct. 5, 1940, W. H. Welch 6338; Hendricks Co., Mar. 5, 1946, K. Wagner 807, 811; Lawrence Co., Sept. 5, 1946, K. Wagner 1365; Martin Co., July 1, 1937, W. H. Welch 8867, 8871; Morgan Co., Sept. 20, 1941, W. H. Welch 8172; Noble Co., Sept. 5, 1935, W. H. Welch 8231, 8378; Owen Co., May 12, 1935, W. H. Welch 5862, 5866; Scott Co., July 9, 1937, W. H. Welch 8784; Steuben Co., Oct. 27, 1945, K. Wagner 770; Washington Co., July 9, 1937, W. H. Welch 8218; White Co., Aug. 6, 1936, W. H. Welch 8504; Whitley Co., Aug. 11, 1935, E. Harger.

Radula complanata (L.) Dumortier: Jefferson Co., Mar. 26, 1939, W. H. Welch 8827; Putnam Co., May 25, 1935, W. H. Welch 8208.

Frullania inflata Gottsche: Crawford Co., July 10, 1937, W. H. Welch 6774; Jefferson Co., July 8, 1937, W. H. Welch 8579; Posey Co., May 11, 1935, E. Harger.

Frullania riparia Hampe: Delaware Co., Aug. 8, 1935, W. H. Welch 8473; Fountain Co., July 18, 1937, W. H. Welch 8876; Harrison Co., July 10, 1937, W. H. Welch 8787; Hendricks Co., Mar. 5, 1946, K. Wagner 815; Jennings Co., May 22, 1942, W. H. Welch 8380, 8573; Knox Co., July 12, 1937, W. H. Welch 8510; Kosciusko Co., July 20, 1935, W. H. Welch 8168; Lawrence Co., Mar. 23, 1933, Kriebel 126; Owen Co., Oct. 1, 1940, W. H. Welch 8640; Posey Co., May 13, 1939, W. H. Welch 8660; Steuben Co., July 18, 1938, W. H. Welch 8221.

Frullania eboracensis Gottsche: Brown Co., Oct. 21, 1945, W. H. Welch 8396; Cass Co., Oct. 6, 1939, W. H. Welch 8743; Dubois Co., July 13, 1937, W. H. Welch 8205, 8206; Hendricks Co., Mar. 5, 1946, K. Wagner 812, 814; Henry Co., Oct. 10, 1940, W. H. Welch 6339; Jackson Co., July 2, 1937, W. H. Welch 8213, 8781; Jasper Co., July 11, 1935, W. H. Welch 8837; Kosciusko Co., Aug. 30, 1941, W. H. Welch 8462; Madison Co., Aug. 9, 1935, W. H. Welch 8188, 8477; Martin Co., July 1, 1937, W. H. Welch 8869; Porter Co., Sept. 21, 1897, E. J. Hill 311/1897; Posey Co., May 13, 1939, W. H. Welch 8658, 8659; Pulaski Co., July 16, 1935, W. H. Welch 8210, 8212; Starke Co., July 16, 1935, W. H. Welch 8508; Steuben Co., Oct. 27, 1945, K. Wagner 758; Warren Co., Nov. 27, 1937, W. H. Welch 7828, 8697; Whitley Co., Aug. 11, 1935, E. Harger.

Frullania Brittoniae Evans: Carroll Co., Sept. 6, 1935, W. H. Welch 5843 in part; Harrison Co., July 10, 1937, W. H. Welch 8788; Hendricks Co., Mar. 5, 1946, K. Wagner 816, 818; Lawrence Co., Sept. 5, 1946, K. Wagner 1363; Parke Co., July 17, 1937, W. H. Welch 6308; Scott Co., July 9, 1937, W. H. Welch 8783, 8786.

Frullania squarrosa (Blume, Reinwardt, Nees) Dumortier: Monroe Co., May 1893, L. Underwood (N.Y.); Montgomery Co., Sept. 11, 1942, W. H. Welch 8122; Pike Co., July 16, 1937, W. H. Welch 6366; Scott Co., July 9, 1937, W. H. Welch 8782, 8785; Spencer Co., July 14, 1937, W. H. Welch 6361, 6362; Warren Co., July 18, 1937, W. H. Welch 6348.

Jubula pennsylvanica (Stephani) Evans: Dubois Co., July 13, 1937, W. H. Welch 6768 in part.

Leucolejeunea clypeata (Schweinitz) Evans: Perry Co., July 17, 1937, W. H. Welch 6764, 8197.

Cololejeunea Biddlecomiae (Austin) Evans: Jefferson Co., July 18, 1937, W. H. Welch 8202, 8293; Lawrence Co., Sept. 5, 1946, K. Wagner 1355 in part; Madison Co., Aug. 7, 1935, W. H. Welch 8500; Parke Co., Oct. 13, 1945, K. Wagner 728; Perry Co., July 15, 1937, W. H. Welch 6357 in part.

Pellia epiphylla (L.) Corda: Crawford Co., May 10, 1941, W. H. Welch 6833; Dubois Co., July 13, 1937, W. H. Welch 6772; Montgomery Co., Oct. 2, 1938, W. H. Welch 8913; Perry Co., July 11, 1937, W. H. Welch 8294, 8516.

Pallavicinia Lyellii (Hooker) S.F. Gray: Marshall Co., July 17, 1935, W. H. Welch 8537.

Riccardia pinguis (L.) S.F. Gray: Steuben Co., Oct. 27, 1945, K. Wagner 762.

Marchantia polymorpha L.: Blackford Co., July 16, 1905, C. Deam 42; Harrison Co., Oct. 1, 1926, C. Deam 43,879; Jasper Co., July 25, 1935, W. H. Welch 8589; Madison Co., Aug. 7, 1935, W. H. Welch 8266; Montgomery Co., Oct. 16, 1938, W. H. Welch 8733, 8734; Noble Co., June 11, 1916, C. Deam 20,113A; Steuben Co., July 18, 1935, W. H. Welch 8249; Wells Co., July 23, 1905, C. Deam 88.

Preissia quadrata (Scopoli) Nees: Madison Co., Aug. 7, 1935, W. H. Welch 8446, 8459; Porter Co., July 27, 1935, W. H. Welch 8863; Putnam Co., Oct. 13, 1945, K. Wagner 726.

Conocephalum conicum (L.) Wiggers: Delaware Co., Aug. 9, 1935, W. H. Welch 8496; Howard Co., 1934, C. M. Ek; Jefferson Co., Mar. 25, 1939, W. H. Welch 8832; Martin Co., July 1, 1937, W. H. Welch 8269; Owen Co., June 30, 1937, W. H. Welch 8855; Perry Co., July 11, 1937, W. H. Welch 8318; Porter Co., June 21, 1932, S. Flowers; Steuben Co., Sept. 11, 1904, C. Deam; Tippecanoe Co., Apr. 22, 1935, W. H. Welch 8250; Warren Co., Nov. 27, 1937, W. H. Welch 8682.

Lunularia cruciata (L.) Dumortier: Monroe Co., Apr. 20, 1928, Gragg.

Reboulia hemisphaerica (L.) Gottsche, Lindenber, Nees: Cass Co., Nov. 26, 1937, W. H. Welch 8375, 8680; Crawford Co., May 5, 1941, W. H. Welch 6830; Jefferson Co., May 22, 1942, W. H. Welch 8385, 8587; Knox Co., June, 1929, W. H. Welch 1936; Martin Co., July 1, 1937, W. H. Welch 6323, 8375; Montgomery Co., Aug. 6, 1937, W. H. Welch 8907; Sullivan Co., July 16, 1937, W. H. Welch 6348; Warren Co., Apr. 22, 1935, W. H. Welch 8479.

Asterella tenella (L.) Beauvois: Perry Co., July 11, 1937, W. H. Welch 8196 in part.

Ricciocarpus natans (L.) Corda: Monroe Co., W. H. Welch 6810; Putnam Co., May 26, 1933, W. H. Welch 8260; Randolph Co., Oct. 20, 1945, K. Wagner 741.

Riccia arvensis Hoffman: Newton Co., May 23, 1937, R. Drexler 1155; Owen Co., Oct. 1, 1940, W. H. Welch 8643; Parke Co., Sept. 4, 1946, K. Wagner 1339; Putnam Co., July 5, 1940, W. H. Welch 8976.

Riccia fluitans L.: Tippecanoe Co., July 20, 1915, C. Deam 17,732; Whitley Co., Aug. 11, 1935, E. Harger.