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## Additions to the Lichen Flora of Emmet County

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ADDITIONS TO THE LICHEN FLORA OF  
EMMET COUNTY

B. O. WOLDEN

Since the publication of a preliminary list of the mosses and lichens of Emmet County<sup>1</sup> in 1919, no special effort was made to add to the list of lichens, but a few additional species were picked up incidentally while collecting other plants and those are recorded here. Most of these additions were found in 1927-28. The original list contained 49 species and varieties to which have since been added 18, making a total of 67.

The additions to the list of mosses and liverworts were published in "A Key to the Mosses of the Okoboji Region"<sup>2</sup> in 1932.

*Cladonia cristatella vestita* Tuck. On decayed stump, Estherville.

*Cladonia squamosa* (Scop.) Hoffm. On decayed stump, Estherville.

*Cladonia caespeticia* (Pers.) Floerke. On earth in woods, Estherville.

*Cladonia cariosa cribbosa*. On earth on dry wooded ridge, Estherville.

*Cladonia gracilis* (L.) Willd. On earth in dry woods, Estherville.

*Cladonia verticillata evoluta*. On earth in dry woods, Estherville.

*Peltigera horizontalis* (L.) Hoffm. On earth in woods, Estherville.

*Peltigera polydactyla* (Nut.) Hoffm. On earth in woods, Estherville.

*Peltigera pulverulenta* (Tayl.) Nyl. Banks of Mud Lake, 1911.

*Lecanora cinerea gibbosa* (Ach.) Tuck. On boulder in woods, Estherville.

*Parmelia perlata* (L.) Ach. On base of tree, Estherville.

*Parmelia borrieri rudecta* (Ach.) Tuck. On base of stump, Estherville.

*Parmelia conspersa* (Ehrb.) Ach. On boulder in woods, Estherville.

*Parmelia aurulenta* Tuck. On boulder in woods, Estherville.

*Physcia comosa* (Eschw.) Nyl. On granite boulder in woods, Estherville.

*Physcia caesia* (Hoffm.) Nyl. On boulder in woods, Estherville.

*Physcia albinca* Th. Fr.-f. *teretiusscula* Nyl. On boulder in woods, Estherville.

*Pyrenula laevigata* (Pers.) Am. On red oak, Estherville.

<sup>1</sup> Wolden, B. O. The moss and lichen flora of western Emmet County. Proc. Iowa Acad. Sci. 26:259-267, 1919.

<sup>2</sup> Conard, H. S. and Wolden, B. O. A key to the mosses of the Okoboji region. Univ. of Iowa Studies in Nat. Hist. 14:7. 1932.

ESTHERVILLE, IOWA.