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ALGÆ OF STEUBEN COUNTY, INDIANA. I

By C. Mervin Palmer

No published record has yet been made, apparently, of the algal flora of Steuben county, Indiana. The many lakes and bogs, together with several streams which are in the county, make the area an excellent one for collecting algae. The writer visited the county in May, 1929, July and September, 1933, and obtained specimens particularly from the following lakes: Bass, Crooked, Failing, Fox, Hogback, James, Nevada Mills and Snow. Approximately fifty algae have so far been identified from the collections. Those that have not previously been reported for Indiana are printed in boldface type. It is hoped that additional lists of the algae of Steuben county may be published from time to time. No desmids or diatoms are included in this first paper.

MYXOPHYCEAE

Anabaena spiroids Klebahn; Hogback L., July. The straight species has not been reported previously for Indiana. Variety "crassa" was reported for Vigo county.

Aphanocapsa stagnina (Spreng.) A. Br.; Crooked L., Sept. Specimens differ from the species description in having several pseudovacuoles present in each cell.

Calothrix castellii (Mass.) Nag.; L. at Nevada Mills, Sept.

Chroococcus minutus (Kütz.) Nag.; L. Crooked L., Sept.

Chroococcus turgidus (Kütz.) Nag.; framed L., Sept.

Chroococcus turicensis (Nag.) Hansgirg; Crooked L., Sept. Cells 18-30 microns in diameter, brownish, granular; probably rare for the United States.

Cylindrotheca negeiianum Unger; Hogback L., July.

Gloescria echinata (J. E. Smith) P. Richter; Crooked L., Sept.

Gomphosiphon aperita Kütz.; Crooked L., Sept.

Gomphosiphon lacustris Chod.; Fox L., July.

Lyngbya angustior-cornuta (Kütz.) Gump.; stream east of Snow L., Sept.

Lyngbya bigei G. M. Smith; Fox L., July. Resembles L. hieronymus Lemm, but specimens are too large for that species. Filament 27 microns in diam.; trichome 18 microns in diam. Cells 2.6-3.5 microns long.

Lyngbya majuscula (Dillw.) Harvey; stream east of Snow L., Sept. The largest species of Lyngbya, generally marine, but sometimes found in fresh water. Specimens studied had the following dimensions: diam. filament 46-61 microns; diam. trichome 36-45 microns; shear thickness 3-10 microns; cell length 3.6-7.2 microns. Cells were green, blue and purplish-blue (preserved in weak formalin).

Merismopedia glauca (Ehr.) Nag.; stream east of Snow L., Sept.

Merismopedia termussima Lemm.; Fox L., July.
Nostoc pruniforme Ag.; Bass L., July.
Oscillatoria geminata Menegh.; Failing L., July.
Phormidium ambiguun Gomont; small pond in Pokagon Park.
Phormidium retaii (Ag.) Gomont; stream east of Snow L., Sept.
Rivularia globiceps G. S. West; Failing L., July.
Spirulina major Klütz.; lake at Nevada Mills, Sept.
Stigonema isiforme Klütz.; lake at Nevada Mills, Sept.
Tolypothrix tenuis Klütz.; Crooked L., Sept.

**CHLOROPHYCEAE (AND ALL ALGAE OTHER THAN MYXOPHYCEAE)**

Ankistrodesmus falcatus (Corda) Ralfs; Failing L., July.
Aphanocapsa repens A. Br.; Crooked L., Sept.
Bulbochæle monile Witt. und Landell, var. robusta Hain.; Bass L., July.
Chara delicatula Agath., var. antennata (Wallman) G. and B. W.; Crooked L., Sept.
A small form growing in shallow water along the shore line.
Chara fragilis Desvaux, Bass L. and bog near Hogback L., July.
Chlorococcum loricicum (Nag.) Rab.; on cow manure in boggy area near Snow L., Sept.
Chladorhiza crispata (Rotb.) Klütz.; Hogback L., July.
Cropotum microsporum Nag.; lake at Nevada Mills, Sept.
Cylindrocapsa geminella Wolle; Crooked L., Sept. Rare for the U. S.
Euglena spirogyra Ehrenb.; bog, May.
Gloeotansium loitlesbergerianum Hang.; Bass L., July. Colony of four cells; length of colony 47 microns, width 42 microns.
Hydrodictyon reticulatum (L.) Lagerhe.; pond west of Snow L., Sept.
Kirchneriella obesa (W. west) Schmidle; Crooked L., Sept.
Nitella tenuissima Klütz.; Bass L., July. Colony of four cells; length of colony 47 microns, width 42 microns.
Pandorina morum Bory; bog north of Snow L., Sept.
Peaonia bursaria (Turg.) Menegh.; Hogback L., July.
Pediastrum boryanum (Turg.) Menegh.; Hogback L., July.
Pediastrum tetras (Ehr.) Ralfs; bog north of Snow L., Sept.
Phacus pleurocystic (Müll.) Duj.; bog north of Snow L., Sept.
Radioflorum conjunctivum Schmidle; Bass L., July. Helmet-shaped segments of wall present. Cell diam. 4.5-5.5 microns; cell length 5-6.5 microns. No gelatinous sheath visible in some of the specimens.
Scenedesmus arcuatus Less., var. platydica G. M. Smith; in drinking trough, July.
Scenedesmus bijuga (Turg.) Lag.; bog north of Snow L., Sept., and lake at Nevada Mills, Sept.
Scenedesmus brasiliensis Bohlin; Failing L., July.
Scenedesmus obtusus (Turg.) Klütz.; drinking trough, July.
Sphaerocystis schroeteri Chod.; lake at Nevada Mills, Sept.
Trachelomonas acanthostoma Stokes; bog north of Snow L., Sept. Short, rough col­lar; short spines on anterior end of cell.
Trichomonas utriculatum (Klütz.) Hazen; swamp, May.