

ALGAE OF INDIANA: THIRD LIST OF ADDITIONS TO THE 1875-1928 CHECK LIST

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Algae reported in forty-two papers published between 1875 and 1928 have been enumerated in the Check List of Indiana Algae published by the writer in the Proceedings of the Indiana Academy of Science.¹

Recently four more papers have been discovered, and, since they add to the check list algae from six more counties and add nine more genera, thirty more species, and a total of 127 additional notations of algae for the state, it seems desirable to include them in a third list of additions to the original 1929 check list. The six counties represented for the first time are Cass, DeKalb, Fulton, Laporte, Porter, and Steuben. The genera and species not previously represented in the check list are indicated below by an asterisk. The paper by Eddy, "The plankton of Lake Michigan" considers forms which were collected in the lake near Gary, Dunes State Park, and Michigan City. According to maps of the state surveyor's office, the counties of Lake, Porter, and Laporte extend out into the lake for some distance. Therefore organisms collected in the lake near the Indiana shore would be in the state.

The algae of Indiana recorded in the four additional papers are given in the following classified list:

GROUP 1. BLUE GREEN ALGAE (CYANOPHYCEAE):

Anabaena. Porter Co. 1927.

*Aphanocapsa**. *A. delicatissima* W. and G. S. West, Laporte Co. and Porter Co. 1927. *A. elachista* W. and G. S. West, Laporte Co. and Porter Co. 1927.

Aphanothece. Laporte Co. and Porter Co. 1927.

Chroococcus. *C. dispersus** (V. Keiss) Lemm., Lake Co. and Porter Co. 1927. *C. limneticus** Lemm., Porter Co. 1927. *C. minutus** (Kütz.) Nag., Porter Co. 1927.

Coelosphaerium. *C. kützingianum* Nag., Laporte Co. and Porter Co. 1927.

Lyngbya. Lake Co. and Porter Co. 1927.

Merismopedia. *M. glauca* (Ehr.) Nag., Laporte Co. and Porter Co. 1927.

Nostoc. De Kalb Co. 1895.

Rivularia. Fulton Co. 1910.

GROUP 2. DESMIDS:

Closterium. *C. gracile* Breb., Laporte Co. and Porter Co. 1927.

Cosmarium. Porter Co. 1927.

¹Palmer, C. M., 1929. Algae of Indiana—A classified check list of those published between 1875 and 1923. Proc. Ind. Acad. Sci. 38:109-121.

Palmer, C. M., 1931. Algae of Indiana—Additions to the 1875-1928 check list. Proc. Ind. Acad. Sci. 40:107-109.

Palmer, C. M., 1933. Algae of Indiana—Second list of additions to the 1875-1928 check list. Proc. Ind. Acad. Sci. 42:90-92.

GROUP 3. DIATOMS:

- Amphiprora***. *A. alata* (Ehr.) Kütz., Laporte Co. and Porter Co. 1927. *A. ornata* Bailey, Porter Co. 1927.
- Asterionella**. *A. gracillima** (Hantz.) Heib., Lake Co. and Laporte Co. and Porter Co. 1927.
- Campylodiscus***. *C. hibernicus* Ehr., Porter Co. 1927.
- Cocconeis**. *C. placentula* Ehr., Porter Co. 1927.
- Cyclotella**. Lake Co. and Laporte Co. and Porter Co. 1927.
- Cymbella**. *C. lanceolata* (Ehr.) Kirch., Porter Co. 1927.
- Cystopleura (Epithemia)**. Porter Co. 1927. *C. turgida* (Ehr.) Kuntze, Porter Co. 1927.
- Encyonema**. *E. prostratum** (Berk.) Kütz., Porter Co. 1927.
- Fragilaria**. *F. crotonensis* (Edw.) Kitton, Lake Co. and Laporte Co. and Porter Co. 1927. *F. virescens* Ralfs, Lake Co. and Laporte Co. and Porter Co. 1927.
- Gomphonema**. *G. acuminatum* Ehr., Porter Co. 1927.
- Gyrosigma**. *G. acuminatum** (Kütz.) Cl., Porter Co. 1927.
- Homocladia**. *H. sigmoidea* (Nitz.) Elmore, Porter Co. 1927.
- Lysigonium (Melosira)**. Lake Co. and Porter Co. 1927. *L. granulata** (Ehr.) Ralfs, Laporte Co. 1927. *L. varians* Ag., Lake Co. and Laporte Co. and Porter Co. 1927.
- Navicula**. Porter Co. 1927.
- Sphinctocystis (Cymatopleura)**. *S. elliptica* (Kütz.) Kuntze, Laporte Co. and Porter Co. 1927. *S. librilis** (Ehr.) Hass, Laporte Co. and Porter Co. 1927.
- Stephanodiscus***. *S. niagarae* Ehr., Lake Co. and Laporte Co. and Porter Co. 1927.
- Striatella (Tabellaria)**. *S. fenestrata* (Kütz.) Kuntze, Lake Co. and Laporte Co. and Porter Co. 1927. *S. flocculosa* (Roth.) Kuntze, Laporte Co. and Porter Co. 1927.
- Synedra**. *S. tenuissima** Kütz., Lake Co. and Laporte Co. and Porter Co. 1927. *S. ulna** (Nitz.) Ehr., Lake Co. and Laporte Co. and Porter Co. 1927.

GROUP 4. ALL OTHER ALGAE:

- Ankistrodesmus**. *A. falcatus* (Corda) Ralfs, Porter Co. 1927.
- Botryococcus**. *B. sudeticus** Lemm., Laporte Co. and Porter Co. 1927.
- Ceratium**. *C. hirundinella* Müll., Laporte Co. and Porter Co. 1927.
- Chara**. DeKalb Co. and Steuben Co. 1895; Cass Co. 1908; Fulton Co. 1910.
- Chlamydomonas**. Porter Co. 1927.
- Chrysosphaerella***. *C. longispina* Lauter, Laporte Co. 1927.
- Coelastrum**. *C. microporum* Nag., Lake Co. and Porter Co. 1927. *C. reticulatum** (Dangeard) Senn., Laporte Co. and Porter Co. 1927.

Crucigenia. Lake Co. 1927.

Cryptomonas*. *C. ovata* Ehr., Porter Co. 1927.

Dictyosphaerium. *D. pulchellum** Wood, Lake Co. and Laporte Co. and Porter Co. 1927.

Dinobryon. *D. sertularia** Ehr., Laporte Co. and Porter Co. 1927.

Eudorina. *E. elegans** Ehr., Laporte Co. and Porter Co. 1927.

Euglena. *E. oxyuris** Schmarda, Porter Co. 1927.

Kirchneriella*. *K. obesa* Schmidle, Laporte Co. 1927.

Mesocarpus (Mougeotia). Fulton Co. 1910.

Oocystis*. Porter Co. 1927.

Pediastrum. *P. boryanum* (Turpin) Menegh, Laporte Co. and Porter Co. 1927. *P. duplex* Meyen, Laporte Co. and Porter Co. 1927. *P. simplex* (Bail.), Laporte Co. and Porter Co. 1927.

Phacus. *P. triqueter** (Ehr.), Porter Co. 1927.

Rhizochrysis*. *R. linneticus* G. M. Smith, Laporte Co. 1927.

Scenedesmus. *S. bijuga** (Turpin) Lag., Lake Co. and Porter Co. 1927. *S. quadricauda* (Turpin) Breb., Lake Co. and Porter Co. 1927.

Sphaerocystis. *S. schroeteri* Chodat, Lake Co. 1927.

Spirogyra. De Kalb Co. 1895; Fulton Co. 1910; Lake Co. and Porter Co. 1927.

Trachelomonas. *T. hispida* (Perty), Porter Co. 1927.

Uroglena. *U. americana** Calkins, Lake Co. 1927.

Bibliography

(Titles additional to the original check list and first and second supplements)

1. 1895. Kirsch, P. H. Report upon investigations in the Maumee River basin during the summer of 1893. U. S. Fish Comm. 1894:315-337.
- ✓ 2. 1908. Evermann, B. W. and H. W. Clark. Lake Cicott, Indiana, and notes on its flora and fauna. Proc. Biological Soc. Wash. (D. C.) 21:213-218.
- ✓ 3. 1910. Evermann, B. W. and H. W. Clark. Fletcher Lake, Indiana, and its flora and fauna. Proc. Biological Soc. Wash. (D. C.) 23: 81-88.
4. 1927. Eddy, S. The plankton of Lake Michigan. Illinois, Dept. Registration and Educ., Div. Nat. Hist. Survey. Bull. 17:201-232.