SOME ALGAE OF VIGO, GREENE AND DAVIESS COUNTIES

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The algae of Indiana have been studied by several workers during the past quarter-century, and the plants reported from this state represent nearly every genus of the Cyanophyceae and Chlorophyceae. The algae of Vigo County were probably never carefully studied until Smith (5) did his work. Although much of his material is from Vigo County, he collected and studied specimens from many regions of the state. The plants reported in this study were for the most part collected from Vigo County. Some material was obtained from Greene County and Daviess County. Material was collected and preserved during the period from December 15, 1931, until June 10, 1932.

The findings of this study were checked against previous records of Andrews (1) (2), Palmer (3) (4), Smith (5), and White (6).

Thirteen plants including one genus, nine species, and three varieties or forms not previously reported for the state are recorded in this study. All of these were from Vigo County except Zygnema pectinatum var. conspicuum. Twenty-one plants not previously reported for Vigo County are recorded in addition to the ones not previously reported for the state. The algae found are listed along with a key to the symbols used.

ALGAE SYSTEMATICALLY ARRANGED

Class I. Myxophyceae

¹Merismopedia tenuissima Lemmermann. May 16, 1932.

Class IV. Heterokontae

³Ophiocytium cochleare (Eichwald) A. Braum. Feb. 20, 1932. ⁴Tribonema bombycinum f. minor Wille. May 2, 1932.

Class V. Chlorophyceae

¹Gloeocystis vesiculosa Naeg. June 8, 1932.

Sphaerocystis schroeteri Chod. Feb. 20, 1932. Reproducing—zoospores of two sizes present.

³Pediastrum tetras (Ehr.) Ralfs. Mar. 19, 1932.

¹Characium sublatum A. Braum. Jan. 25, 1932.

³Actinastrum gracillimum Smith. May 16, 1932.

² Variety of form-not previously reported from state.

³ Species—not previously reported from Vigo County.

⁴ Variety—not previously reported from Vigo County.

⁵ Genus—not previously reported from state.

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¹ Species—not previously reported from state.

⁶ Collected from other counties than Vigo.

³Ankistrodesmus falcutus (Corda) Ralfs. June 1, 1932.

³Scenedesmus bijuga (Turpin) Lagerheim. May 2, 1932.

^eScenedesmus bijuga var. alternans (Reinsch) Borge. May 31, 1932. Daviess Co.

³Scenedesmus denticulatus Lagerheim. May 25, 1932.

⁶Scenedesmus longus Meyen. May 31, 1932. Daviess Co.

³Ulothrix tenerrima Kuetzing. Mar. 26, 1932.

¹Stigeoclonium stagnatile (Hazen.). Mar. 26, 1932.

³Aphanochaete repens A. Braum. Feb. 20, 1932.

⁵Chaetosphaeridium globosum var. depressum. W. and G. S. West. Feb. 26, 1932.

⁵Chaetosphaeridium pringsheimii Klebahn. Mar. 9, 1932.

Oedogonium borisianum var. westii. Tiffany and Brown. April 3, 1932. Larger than recorded measurements. Oogonium: 64-68.2 Dia.; 86.4-99.2 Leng.; Ospore; 64-68.2 Dia.; 77.8-81. Leng.; Veg. Vell: 32.-35.2 Dia.; 81.-140. Leng.; Suffultory Cell: top 48. Dia.; bottom 44. Dia.; Pore: Superior; Dwarf-males present.

³Oedogonium boscii (Le Clerc) Wittrock. Feb. 18, 1932.

⁴Oedogonium boscii var. occidentale Hirn. Feb. 18, 1932.

⁴Oedogonium capilliforme var. diversum (Hirn) Tiffany. May 15, 1932.

³Oedogonium cardiacum (Hass.) Wittrock. April 24, 1932.

³Oedogonium crassum (Hass.) Wittrock. April 24, 1932.

¹Oedogonium decipiens var. africanum Tiffany. April 5, 1932.

¹Oedogonium flavescens (Hassell) Wittrock. April 3, 1932.

³Oedogonium fragile Wittrock. April 27, 1932.

¹Oedogonium pachyandrium Wittrock. April 18, 1932.

³Oedogonium paludosum (Hassell) Wittrock. April 17, 1932.

³Oedogonium rufescens Wittrock. April 12, 1932.

¹Oedogonium sodiroanum Lagerheim. April 19, 1932.

³Oedogonium suecicum var. australe (G. S. West) B. H. Smith. April 3, 1932.

¹Spirogyra areolata Lagerheim. April 19, 1932.

² ⁶ Zygnema pectinatum var. conspicuum (Hass.) Kirchner. Mar. 24, 1932. Greene Co.

⁴Cosmarium granatum var. subgranatum Nordst. April 17, 1932.

²Cosmarium margaritatum f. minor Boldt. June 1, 1932.

³Staurastrum furcigerum De Brebisson. Feb. 20, 1932.

³Phacus longicaudus (Ehrenb.) Duj. Mar. 2, 1932.

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