

NOTES ON ZYGNEMATACEAE¹

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Further study of certain groups of species of the *Zygnemataceae* has suggested the desirability of raising several previously recognized varieties to the status of species, as follows:

Zygnema ornatum (Li) comb. nov.

(= *Z. collinsianum* Transeau var. *ornatum* Li, 1933).

Not uncommon in the states from Alabama to Oklahoma.

Spirogyra suecica nom. nov.

(= *S. varians* (Hass.) Kuetz. var. *gracilis* Borge, 1923).

Known in the United States from Iowa, Ohio and Florida.

Spirogyra labyrinthica nom. nov.

(= *S. daedalea* Lagerheim var. *major* Hirn, 1913).

Spirogyra distenta nom. nov.

(= *S. decimina* (Mull.) Kuetz. var. *inflata* Fritsch, 1921).

Known in the United States from Illinois and Ohio.

Spirogyra discreta nom. nov.

(= *S. inflata* (Vauch.) Rab. var. *foveolata* Transeau, 1914, which is not a synonym of *S. foveolata* Czurda, 1932).

Spirogyra teodoresci nom. nov.

(= *S. varians* (Hass.) Kuetz. var. *minor* Teodorescu, 1908).

Widely distributed in the eastern United States.

Spirogyra suomiana nom. nov.

(= *S. punctata* Cleve var. *major* Hirn, 1895).

Spirogyra crassiuscula (W. & N.) comb. nov.

(= *S. maxima* (Hass.) Wittr. f. *megaspora crassiuscula*, W. & N. 746).

Diam. vegetative cells 145–170 μ , spores 120–150 μ \times 85–100 μ .

Spirogyra megaspora (W. & N.) comb. nov.

(= *S. maxima* (Hass.) Wittr. f. *megaspora crassa*, W. & N. 745).

Diam. vegetative cells 170–200 μ , spores 135–170 μ \times 95–120 μ .

Sirogonium tenuius (Nordstedt) comb. nov.

(= *Spirogyra stictica* (Eng. Bot.) Wille var. *tenuior* Nordst., 1882).

Originally described from the Argentine, and recently collected by C. E. Taft in Oklahoma.

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