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## CONTRIBUTIONS TO THE BOTANY OF MICHIGAN, NO. 18

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This paper deals with extension of ranges, the most interesting of which probably is the finding of *Solidago hispida* var. *tonsa* in Michigan.

POTAMOGETON CAPILLACEUS Poir. Anderson's Pond, Clifton, Keweenaw Co., no. 857, July 5, 1895.

This is the "*P. diversifolius* Raf." of Beal's *Michigan Flora*. In his monograph of the Linear-leaved North American Species of *Potamogeton* sect. *Axillares*, Fernald excludes Michigan from the range of distribution of this species, citing no specimens from this State. This collection from Michigan closes the gap between Wisconsin and New York, thus making the range continuous.

CHAETOCHLOA VIRIDIS (L.) Scribn. var. MINOR (Koch) O. A. F. (var. *Weinmanni* (R. & S.) House). Lake Linden, no. 11130, Sept. 21, 1935; along the shores of Torch Lake, no. 11479, Aug. 11, 1936.

This purplish-bristled variety has been found in the Lake Superior country along roadsides in Houghton Co., extending the Michigan range far to the north.

DESCHAMPsia CESPITOSA (L.) Beauv. On conglomerate shores of Lake Superior near Eagle Harbor, Keweenaw Co., no. 12537, July 30, 1940.

This species is limited by Fernald (RHODORA xxviii. 153 (1926) to Newfoundland and the western mountainous region. Michi-



gan is now included. The var. *glauca* (Hartm.) Lindm. f. also occurs and both are rare here.

*JUNCUS INFLEXUS* L. (*J. glaucus* Ehrh.) This European species is very abundant on wet banks near Hancock where it was discovered by F. J. Hermann in 1936. On the Quincy Hill, Houghton Co., no. 12735, Sept. 17, 1940.

It is otherwise known in North America only from New York, having been reported from Oneida Co. by House and from the Cayuga region by Wiegand and Eames. Superficially it looks like *J. balticus* but the plant is densely caespitose and glaucous and the inflorescence is more condensed.

*JUNCUS MARGINATUS* Rostk. With the preceding species and quite plentiful. No. 12760, Oct. 8, 1940.

This is far to the north of the range as generally given—Maine to Nebraska. Associated with these is

*J. BOGOTENSIS* HBK. var. *COMPACTUS* (Lej. & Court.) O. A. F. This is very scarce at this station, no. 12757, Oct. 8, 1940.

*LINUM CATHARTICUM* L. Purging Flax. Near the Central Mine, Keweenaw Co., no. 12555, Aug. 6, 1940.

Said to occur only in Newfoundland,<sup>1</sup> Nova Scotia, Maine,<sup>2</sup> New York<sup>3</sup> and Ontario, where it is chiefly adventive from Europe. It was found in abundance in grassy borders of U. S. Highway 41.

*CAMPANULA ULIGINOSA* Rydb. In swampy meadows, Meadow Mine, no. 12495, July 30, 1940; Cat Harbor, no. 12608, Aug. 8, 1940.

First time reported for the mainland of Keweenaw Co., Michigan. It has been reported by others from various parts of Michigan. H. T. Darlington reported it from the Porcupine Mountains and Cooper from Isle Royale. My sincere thanks are herewith tendered Dr. M. L. Fernald for the following list of sheets of this species from Michigan in the Gray Herbarium:—Grayling, Crawford Co., 1922, *C. V. Piper*; Fayette, 1901, *M. A. Barber*; Hamlin Lake, Ludington, Mason Co., 1910, *R. W. Chaney*; an old collection marked "Mich. State collection" by *Asa Gray*; Mud Lake, Cheboygan Co., *Ehlers*, no. 604; Turin, Marquette Co., 1901, *Barlow*; Isle Royale, 1901, *Cooper*.

<sup>1</sup> Fernald, *RHODORA*, xxxv. 15 and 277 (1933).

<sup>2</sup> Walter Deane, *RHODORA*, xiv. 56 (1912).

<sup>3</sup> House, N. Y. State Museum Bulletin, no. 266: 23 (1925).



*SOLIDAGO HISPIDA* Muhl. var. *TONSA* Fernald. On dry soil of exposed bluff, Lookout Mt., Keweenaw Co., nos. 12706 and 12710, Aug. 27, 1940.

Originally described as from Newfoundland, Quebec and New Brunswick, it is now found in the Lake Superior district.

*HELIANTHUS LAETIFLORUS* Pers. In dry open places, Oakwood, Wayne Co., no. 8822, Sept. 30, 1930. Shores of Torch Lake, Houghton Co., no. 12768, Oct. 14, 1940.

Not before reported for Michigan which is north of the general range as usually given.

LAKE LINDEN, Michigan.

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## ANOTHER CENTURY OF ADDITIONS TO THE FLORA OF VIRGINIA

M. L. FERNALD

(Continued from page 630)

\**SYMPLOCOS TINCTORIA* (L.) L'Hér., var. *pygmaea*, var. nov., frutex nanus 0.3–1.3 m. altus; foliis maturis elliptico-ovatis utrinque acutis 2–5.5 cm. longis 1–2.5 cm latis.—Southeastern VIRGINIA: white sand of dry pine barrens, south of Lee's Mill, Isle of Wight County, August 23 and September 2, 1940, *Fernald & Long*, no. 12,770 (TYPE in Herb. Gray; ISOTYPE in Herb. Phil. Acad.); open ground near Norfolk, May 17, 1877, *Thos. Morong*. See p. 519.

Typical *Symplocos tinctoria* is a large shrub or small tree (up to 6 m. high), with mature leaves 0.7–1.5 dm. long and 3–6 cm. broad. The small shrub of the pine barrens may prove, when we can secure flowering and fruiting material, to have other points of departure. Var. *Ashei* Harbison, described from the mountains of North and South Carolina, Georgia and Tennessee, is a tree or large shrub, with leaves much larger than in var. *pygmaea*.

*APOCYNUM SIBIRICUM* Jacq. Range extended south to ISLE OF WIGHT COUNTY: sandy beach of Burwell's Bay, James River, below Rushmere (Fergusson's Wharf), no. 12,777. Also PRINCE GEORGE COUNTY: woods and thickets back of beach of James River, Windmill Point, Flowerdew Hundred, no. 13,110.

*ASCLEPIAS PURPURASCENS* L. To the very few recorded stations add others in YORK, SUSSEX and GREENSVILLE COUNTIES (several nos.). See pp. 499 and 504.



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