

NEW AND UNUSUAL *CAREX* RECORDS FOR ILLINOIS

ROBERT H. MOHLENBROCK
Southern Illinois University, Carbondale

ABSTRACT.—Six taxa of the genus *Carex* are reported for the first time from Illinois as a result of a study of undetermined specimens at the Missouri Botanical Garden.

While annotating specimens of *Carex* for the Illustrated Flora of Illinois, an interesting group of undetermined Illinois specimens was found at the Missouri Botanical Garden. This paper reports the more interesting finds.

Fifty-one specimens were in the undetermined group. Of these, six were of taxa unreported from Illinois and fourteen others were county records.

Taxa New to Illinois

Carex flava L. var. *fertilis* Peck. This taxon of northeastern North America has been reported from nine counties of Indiana by Deam (1940). He indicates it is "on marly lake borders and in marshes rich in marl." A specimen collected in sand in Lake County, Illinois, by M. C. Jensen in May, 1895, is the only one known from Illinois. In the rank of species, this taxon is known as *C. cryptolepis* Mack. Variety *fertilis* is not always readily distinguished from var. *flava*. It generally can be recognized by its nearly hidden pistillate scales and smaller pistillate spike (less than 1 cm thick). Furthermore, the perigynia average slightly shorter in var. *fertilis*, and the perigynial beak is essentially entire. All spikes in the Illinois material have a tuft of staminate flowers at the apex. This taxon belongs to Section *Extensae*, a group characterized by three stigmas, sharply trigonous achenes, a prolonged tubular-sheathing bract, and reflexed perigynia. In addition to *C. flava* var. *fertilis*, Section *Extensae* is represented in Illinois by *C. viridula*. The latter is readily distinguished by its proportionately shorter perigynial beak.

Carex garberi Fern. This is another sand-inhabiting species of northeastern North America which was known pre-

viously from northwestern Indiana where Deam (1940) says it is "infrequent in the lake area (mostly in the dune region) where it grows along the wet sandy edges of swales in the dunes and on old lake beds". This is the plant that has been erroneously called *C. hassei*. The distinctive character of *C. garberi* is its white-papillate, beakless perigynium. This species belongs to Section *Bicolores*. This is one of the few sections of subgenus *Carex* which has 2 stigmas and a lenticular schene. *Carex aurea* Nutt., a species known from two collections in Lake County, also belongs to this section. It differs from *C. garberi* by its staminate terminal spike and its golden-orange perigynia. The Illinois specimen reported here of *C. garberi* was collected in Cook County at Lakeview on June 20, 1887, by L. H. Pammel.

Carex pennsylvanica Lam. var. *distans* Peck. This taxon differs from var. *pennsylvanica* by its significantly longer perigynia (over 3 mm) and the perigynial beak nearly as long as the body. As a species this taxon is known as *C. lucorum* Willd. The collection reported here from Illinois was made in Lake County at Lake Forest in 1897 by M. C. Jensen 99. This taxon is a variety known from the northeastern states. It has been found in Wisconsin.

Carex setacea Dewey. This poorly known species has the general appearance of *C. vulpinoidea* but differs markedly in its extremely slender perigynia. Since achenes at best are very poorly developed it has been suggested that *C. setacea* is a sterile hybrid between *C. vulpinoidea* and *C. annectens*. The specimen reported here was collected in Lake County at Lake Forest in 1896 by M. C. Jensen 102.

Carex burbaumii Wahlenb. f. *heterostachya* Anderss. This variant differs from typical *C. burbaumii* by having the terminal spike staminate throughout. The first record in Illinois is based upon a collection from Hancock Coun-

ty at Augusta by S. B. Mead in 1842.

Carex cristatella Britt. f. *catelliformis* (Farw.) Fern. This taxon is distinguished from typical *C. cristatella* by the spikes which are arranged in a moniliform head. The collection reported here was made by H. Eggert on May 8, 1892, from French Lake in St. Clair County.

Additional Illinois county records from the undetermined Carices at the Missouri Botanical Garden follow.

Carex aggregata Mack. Madison.

Carex albolutescens Schwein. Macon, St. Clair.

Carex amphibola Steud. var. *rigida* (Bailey) Fern. St. Clair.

Carex brachyglossa Mack. St. Clair.

Carex convoluta Mack. Stephenson.

Carex crinita Lam. LaSalle.

Carex emoryi Dewey. Hancock.

Carex granularis Muhl. St. Clair.

Carex lacustris Willd. Madison.

Carex molesta Mack. St. Clair.

Carex projecta Mack. Stephenson.

Carex tribuloides Wahlenb. LaSalle, Randolph.

LITERATURE CITED

DEAM, C. C. 1940. Flora of Indiana. Department of Conservation, Division of Forestry, Indianapolis, Indiana, 1236 pp.

Manuscript received Sept. 15, 1967.