

PLANTS NEW TO INDIANA, XI.

CHAS. C. DEAM, Bluffton, Indiana.

Duplicates of the species reported in this paper, excepting *Crotalaria sagittalis*, have been deposited in the Gray Herbarium or in the National Herbarium. The grasses were determined by Agnes Chase. The determination of the remaining species was either made or checked at the Gray Herbarium.

Isoetes engelmanni A. Br.

Norma E. Pfeiffer in her monograph of the Isoetaceae, published in the Annals of the Missouri Botanical Gardens, Vol. 9:206:1922, says that my number 22385 which was reported as *Isoetes braunii* belongs to this species. In the same publication she refers my number 20467, reported as *Isoetes foreolata*, to the same species.

Eragrostis hirsuta (Michx.) Nees.

Posey County, Aug. 20, 1922. No. 37704. In clayey soil along the roadside on the south side of Half Moon pond about nine miles southwest of Mt. Vernon.

Melica nitens Nuttall.

Clark County, May 7, 1922. No. 35456. Found growing in full sunlight on the narrow ledges at the top of a cliff along the Ohio River about a half mile east of the mouth of Fourteen-mile Creek. The cliff at this point faces to the south and is about 250 feet high.

Harrison County, May 11, 1922. No. 35548. In partial shade on the narrow ledges and in the talus of the cliff of the Ohio River about two miles southwest of Laconia.

Cyperus pseudovegetus Steud.

Posey County, August 19, 1922. No. 37685. Common in a roadside ditch three miles west of Hovey, or about seven miles southwest of Mt. Vernon.

Juncus dichotomus Ell.

Laporte County, June 26, 1922. No. 36704. In a prairie habitat along the railroad about one mile south of Wanatah. Rare here. This species was reported for Randolph County by Phinney but since no specimen exists, we have no means of checking the determination. A specimen is in the Gray Herbarium collected by Schneck which was determined to be this species. H. H. Bartlett and C. A. Weatherby have examined this specimen and both report it to be an immature specimen of *Juncus tenuis*. Smith reported Bartlett's examination in Proc. Ind. Acad. Sci. 1905:156:1906.

Carex annectans Bicknell.

Crawford County, May 28, 1919. No. 27710. In a low flat woods about three miles northwest of Leavenworth.

St. Joseph County, June 8, 1922. No. 36366. In an old marsh bed about five miles west of South Bend.

Silene chloranthe (Willd.) Ehrh.

Monroe County, Sept. 17, 1922. No. 37989. Collected by myself and Paul Weatherwax in sand ballast along the Monon Railroad about

one and a half miles northwest of Harrodsburg. Corolla yellowish. Frequent here for a distance of about 25 feet.

Crotalaria sagittalis Linnaeus.

Perry County, Aug. 6, 1922. No. 36502. In an abandoned field near the crest of a ridge about two and a half miles east of Oriole. Associated with a thick stand of *Cassia chamaecrista*. First discovered by Mrs. Chas. C. Deam. After a search over an acre or more we found only two specimens. This species was reported by Schneck as occurring in the lower Wabash Valley but he cited no definite locality. Indiana is included in the range of this species in the Gray Manual, but the Gray Herbarium does not contain a specimen from Indiana.

Ludwigia glandulosa Walt.

Posey County, Aug. 20, 1922. No. 37699. In an open swamp in a woods in the southwest corner of Section 32 of Point Township. Closely associated with *Cephalanthus occidentalis*, *Styrax americana*, *Lobelia cardinalis*, *Ludwigia polycarpa* and other plants about four feet high.

Chucrophyllum procumbens, variety *shortii* T. & G.

Clark County, May 7, 1922. No. 35477. Alluvial bank of the Ohio River about three-fourths of a mile above the mouth of Fourteen-mile Creek. *C. procumbens* was found about one-fourth mile from the variety and was just beginning to mature its fruit while at the same time the variety was in full fruit, apparently about ten days difference.

Lappula redowskii, variety *occidentalis* (Wats.) Rydb.

Porter County, June 25, 1922. No. 36680. Frequent along the right of way of the Pere Marquette Railroad about five miles southwest of Michigan City.

Mentha cardiaca Gerarde.

Spencer County, Aug. 9, 1922. Several specimens were found in a pasture field about two miles north of Lamar. It grew in a hard clay soil in a low flat field.

Plantago purshii R. & S.

Newton County, June 11, 1922. No. 36502. On a cleared black oak ridge just west of Conrad. Growing in almost pure sand with *Koeleria cristata*, *Stipa spartea*, *Carex brevior*, *Lithospermum gmelini*, *Panicum pseudopubescens*, *Panicum scribnerianum* and *Panicum perlongum*. This is the first definite record for Indiana, although both Gray's Manual and Britton and Brown's Ill. Flora ed. 2, credit Indiana with it. There is no specimen of this species from Indiana in the Gray Herbarium or the New York Botanical Gardens.

Houstonia angustifolia Michx.

Harrison County, Aug. 3, 1922. No. 37238. Growing in very shallow soil in an exposed place on the top of the limestone bluff of the Ohio River about one and a half miles northeast of Davidson.

Sonchus uliginosus Bieb.

Noble County, July 11, 1922. No. 36832. A colony in dry soil in blue grass sod on the west side of the road three and a half miles south of Albion.