

PLANTS NEW OR RARE IN INDIANA—XII.

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Specimens of all of the plants reported in this paper are in the writer's herbarium. The grasses were determined by Agnes Chase; the *Carex* by K. K. Mackenzie; the *Penstemon* by F. W. Pennell; and the determinations of the remainder were checked at the Gray Herbarium.

Melica purpurascens (Torr.) Hitchc. Cass County, May 21, 1923. No. 38,375. Among the limestone outcrops on top of the wooded bluff of the second bottom of the north side of the Wabash River about six miles southwest of Logansport.

Asperella Hystrix (L.) Humb. var. *Bigeloviana* Fernald. Huntington County, Aug. 17, 1923. No. 39,561. In a sugar maple woods on the south side of the Wabash River five miles southeast of Huntington. Jennings County, June 23, 1912. No. 11,252. Slope of a wooded ravine between Vernon and North Vernon. Porter County, July 10, 1920. No. 31,493. In the Doran woods about four miles southwest of Michigan City.

Eleocharis Wolfi Gray. Jefferson County, June 19, 1923. No. 38,893. In a low clearing three and a half miles southwest of Hanover.

Scirpus pauciflorus Lightfoot. Lagrange County, June 22, 1922. No. 36,640A. Low marl border of the east side of Fish Lake about five miles southeast of Lagrange. Reported by Higley and Raddin for Lake County in wet soil south of Whiting.

Carex brachyglossa Mackenzie. Knox County, June 5, 1923. No. 38,705. In a flat white and pin oak woods about seven miles northwest of Decker.

Trillium cernuum var. *macranthum* Eames and Wiegand. Laporte County, May 24, 1923. No. 38,496. In a low woods eight miles east of Michigan City, associated with white elm and silver maple. Petals oval, white; anthers purplish; base of stigma crimson.

Geum virginianum var. *Murrayanum* Fernald. From DeKalb, Elkhart, Hamilton, Hendricks (Mrs. Chas. C. Deam), Howard, Randolph, Rush and Tipton (Mrs. Chas. C. Deam) counties.

Callitriche autumnalis L. Reported from Lake County in Proc. Ind. Acad. Science 1920:227:1921; is now referred to *Callitriche heterophylla* Pursh.

Hypericum adpressum Bart. Jasper County, Sept. 16, 1923. No. 39,873. In a roadside ditch four miles east of Roselawn.

Jussiaea decurrens (Walt.) DC. Posey County, Sept. 28, 1923. No. 39,922. Growing in sandy soil on the wet border of a small body of water formed by a spring on the east side of the road on the north-east side of the cypress pond which is about thirteen miles southwest of Mt. Vernon. Spencer County, Oct. 3, 1923. No. 39,957. On the muddy border of a small stream in the Wilkerson woods in the north-east corner of Sec. 3 about one mile north of Enterprise. The plants ranged in height from 40 to 81 inches.

Osmorhiza longistylis var. *villicaulis* Fernald. From Gibson, Johnson, Knox, Laporte, Marion, Noble, Posey, Warren and Wayne counties. The variety is almost as frequent as the smooth form.

Myosotis macrosperma Engelm. Daviess County, June 4, 1923. No. 38,651. In a low woods on the John Kehoe farm about one and a half miles northeast of Glendale.

Nepeta hederacea var. *parviflora* (Benth.) Druce. Fernald calls attention in *Rhodora* Vol. 23:289:1921 to two forms of the ground ivy. The small-flowered form (var. *parviflora*) is our common form and I have it from Bartholomew, Blackford, Carroll, Decatur, Elkhart, Floyd, Fountain, Hendricks, Huntington, Knox, Marion, Miami, Monroe, Morgan, Tippecanoe, Wabash and Wells counties. The large-flowered form (the type of the species) is rare in Indiana. I have it only from Clark, Hamilton and Randolph counties.

Penstemon spp. The forms of this genus reported for Indiana under the names of *Penstemon laevigatus*, *P. pubescens* var. *laevigatus*, *P. Penstemon*; and *Penstemon Digitalis* and *P. laevigatus* var. *Digitalis* are represented by five instead of two species. Since the forms reported represent a complex, it will be necessary in the total absence of verifying specimens to disregard the old reports and start anew. I will report the stations I have of the four species and the fifth will be described later by Mr. F. W. Pennell.

Penstemon calycosus Small. I have this species from Crawford, Daviess, Dearborn, Decatur, Dubois, Fayette, Greene, Hancock, Hendricks, Jackson, Jennings, Johnson, Lawrence, Martin, Morgan, Owen, Perry, Putnam, Randolph, Rush, Shelby, Spencer and Washington counties.

Penstemon digitalis (Sweet) Nutt. I have this species from Blackford, Clark, Franklin, Gibson, Hancock, Knox, Lake, Marion, Newton, Owen, Ripley and Wells counties.

Penstemon laevigatus Ait. This is a common species and I have it from Adams, Bartholomew, Blackford, Delaware, Dubois, Elkhart, Fountain, Gibson, Grant, Jackson, Jefferson, Jennings, Knox, Lake, Madison, Marion, Martin, Orange, Owen, Posey, Randolph, Ripley, Scott, Shelby (Mrs. Chas. C. Deam), Spencer, Vanderburgh and Wells counties.

Penstemon pallidus Small. I have this from Crawford, Harrison, Monroe and Noble counties.

Gnaphalium decurrens Ives. St. Joseph County, Sept. 12, 1923. No. 39,671. A large colony in dry sandy soil along the roadside one and a half miles east of Granger.