

COLLECTIONS OF NEW OR RARE VASCULAR PLANTS IN ILLINOIS

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Abstract

This paper reports new or rare vascular plants found in southern Illinois during 2021 and 2022.

After teaching 1,228 vascular plant identification classes in 32 states, the senior author was forced to give up field work in 1987, at the age of 85, because of severe arthritis. On April 14, 2021, the junior author, Trent, volunteered to take his father onto little explored roads in the Shawnee National Forest in extreme southern Illinois to search for new records. Driving six miles per hour on these back roads, we both had our heads protruding out our windows. At no time did we ever come upon another human being. Between 14 April 2021 and 27 December 2022, by studying the vegetation along the edge of the woods, we found 35 rare or unknown plants from Illinois. This paper reports those plants.

Nomenclature follows Mohlenbrock (2014). All vouchers will be deposited in the herbarium of the Missouri Botanical Garden.

1. Species new to Illinois

ASTERACEAE

Bidens laevis (L.) BSP. Johnson Co.: Grantsburg Swamp, 1 mi E of Vienna, Illinois Rte 146, hundreds of plants, 14 Nov 2021, *Mohlenbrock 3303*. A second collection by Mark Mohlenbrock 3316, was made on 15 November 2021. A previous collection from Union County was a misidentification for *Bidens cernua*. Shawnee National Forest. The nearest record is in southern Missouri.

Elephantopus nudatus L. Pope Co.: Reddick Hollow, FS402C, dry woods, 26 Jul 2022, *Mohlenbrock 3307*. Shawnee National Forest. The nearest record is in Arkansas.

Solidago zedia Cook & Semple Pope Co.: Reddick Hollow, Shawnee National Forest, FS402C, upland woods, 26 Jul 2022, *Mohlenbrock 3315*. Nearest location is in Arkansas.

Taraxacum palustre Lyons & Simons Union Co.: Along Illinois Rte 3, 7.2 mi S of Ware, W side of hwy, roadside ditch, hundreds of plants, 14 April 2021, *Mohlenbrock 3301*. Nearest stations in Michigan and New York.

CYPERACEAE

Cyperus refractus Engelmann & Boeckeler Alexander Co: Sexton Creek along Horse Creek Road, Shawnee National Forest, gravel bar, 30 Jun 2022, *Mohlenbrock 3304*. Nearest locations in southern Missouri and western Kentucky.

ERICACEAE

Rhododendron periclymenoides (Michx.) Shinners Jackson Co.: Shawnee National Forest, ravine near Hutchins Creek, 15 May 2002, *Mohlenbrock 3314*.

FABACEAE

Sesbania macrocarpa Muhl. Jackson Co.: 1 mi N of Big Muddy River levee, wet ground beneath railroad trestle, 27 Dec 2022, *Mohlenbrock 3360*. Shawnee National Forest.

HIPPOCASTANACEAE

Aesculus glabra L. Union Co.: woods across from LaRue Swamp, one mile north of Otter Pond, 28 Jun 2022, *Mohlenbrock 3315*. Differs from var. *glabra* with all branches pendulous, nearly reaching the ground and tapering to very slender branchlets. Shawnee National Forest.

JUGLANDACEAE

Carya × **demareei** E.J. Palmer Pope Co.: Shawnee National Forest, Boneyard Road where road crosses Cretaceous Creek, 2 mi SW of Eddyville, 21 Sep 2022, *Mohlenbrock 3327*. Presumed hybrid between *Carya cordiformis* and *C. ovalis*. Nearest location is in Arkansas.

LAMIACEAE

Collinsonia canadensis L. Jackson Co.: 4 mi S of Ava, dry woods along Dry Hill Road, 22 Sep 2022, *Mohlenbrock 3319*. Differs from the typical variety by its corolla 5-7 mm long and teeth of basal leaves up to 3 mm long. Shawnee National Forest.

LENTIBULARIACEAE

Utricularia subulata L. Union Co. LaRue Swamp, 1 mi S of Winter's Pond. 4 cm standing water swamp, 20 Sep 2022, *Mohlenbrock 3320*. Second collection, 21 Sep 2022, made by Mark Mohlenbrock 3321. Plants 4 cm tall with single terminal flower 4-5 mm long. Shawnee National Forest.

OLEACEAE

Ligustrum ovalifolium var. **aureomarginatum** Rehd. Pope Co.: Dry woods along Gullet Ridge Road, Shawnee National Forest, several trees in forest, 26 Jul 2022, *Mohlenbrock 3316*.

PLANTAGINACEAE

Plantago aristata var. **nuttallii** (Rapin) E.H. Morris Pope Co.: Millstone Lake, crevice of calcareous shale dam, 12 Jun 2022, *Mohlenbrock 3341*. Nearest location in Tennessee. Shawnee National Forest.

POACEAE

Eragrostis elliottii S. Wats. Jackson Co.: Carbondale, Murdale Shopping Center, parking lot, 27 Jul 2022, *Mohlenbrock 3333*. Nearest locations in southeastern United States and Texas.

Pennisetum alopecoides (L.) Spreng. Gallatin Co.: Black Ridge Road, hundreds of plants on edge of road, 4 Oct 2022, *Mohlenbrock 3343*. Alexander Co.: Old Delta Road, 4 mi NW of Elco, roadside, 8 Oct 2022, *Mohlenbrock 3353*. Shawnee National Forest.

POLEMONIACEAE

Phlox amphibola Britt. Johnson Co.: Lake Egypt Recreation Area, 4 mi S of Creal Springs, along stream, 19 Jul 2022, *Mohlenbrock 3344*. Nearest locations in southern Indiana and southern Missouri. Shawnee National Forest.

SOLANACEAE

Physalis angulatus L. Jackson Co.: W of Fountain Bluff, along soybean field, *Mohlenbrock 3335*. Differs from typical form by its corolla white without any markings.

2. Species new to southern Illinois but present in northern Illinois

ASTERACEAE

Euthamia caroliniana (L.) Porter & Britton Pope Co.: Along Leisure Road (FS458) near One Horse Gap Lake, mesic woods, 17 Sep 2022, *Mohlenbrock 3346*. One northern Illinois record from DuPage County. Shawnee National Forest.

Coreopsis verticillata L. Pope Co.: Roadside near bridge over Lusk Creek, Illinois Route 147, 23 Aug 2022, *Mohlenbrock 3311*. Only Shawnee National Forest. One northern record from DuPage Co.

Lactuca × **morssii** Robbins Jackson Co.: Along Hutchins Creek Road, 17 Aug 2022, *Mohlenbrock 3348*. Reputed hybrid between *Lactuca biennis* and *L. canadensis*. Shawnee National Forest. One record from Vermilion Co.

Salix × **glatfelteri** Schneid. Pope Co.: Reddick Hollow, FS402C, low ground, 26 Jul 2022, *Mohlenbrock 3337*. Shawnee National Forest.

Silphium speciosum Nutt. Pope Co.: Goose Flight Trail (FS126A), dry woods, 1 Aug 2022, *Mohlenbrock 3351*. One northern Illinois record from Chicago area. Shawnee National Forest.

Symphotrichum falcatum var. **commutatum** (Torr. & Gray) Nesom Pope Co.: Reddick Hollow (FS402C), dry woods, 26 Jul 2022. *Mohlenbrock 3338*. Shawnee National Forest. Previously known from Cook, DuPage, and Kane cos.

Symphotrichum oolentangiense var. **laevicaulis** (Fern.) A.E. Jones Johnson Co.: Peninsula Subdivision, first unnamed road south, edge of road, 22 Sep 2022, *Mohlenbrock 3358*. First record southern ¼ of Illinois. Other Illinois records from Cook, DuPage, and Kane cos. Shawnee National Forest.

FABACEAE

Senna occidentalis (L.) Link Pope Co.: Goose Flight Trl (FS126A), dry woods, 1 Aug 2022, *Mohlenbrock 3350*. One northern Illinois record from Chicago area. Shawnee National Forest.

POACEAE

Bromus catharticus L. Johnson Co.: Lake of Egypt Recreation Area, power line clearance, 19 Jul 2022, *Mohlenbrock 3352*. Only other Illinois record from Champaign Co. Shawnee National Forest.

Elymus glaucus Buckl. Johnson Co.: Lake of Egypt Recreation Area, power line clearance, 19 Jul 2022, *Mohlenbrock 3353*. Only other Illinois records from Union and Champaign cos.

Leptochloa uninervia (Presl) Hitchc. & Chase Pope Co.: Reddick Hollow (FS402C), edge of dry woods, *Mohlenbrock 3319*. Only other Illinois record from McDonough Co.

3. Additional collections of rare species in southern Illinois

ASTERACEAE

Antennaria solitaria Rydb. Pope Co.: Ridge along Bushwacker Road, 26 May 2022, *Mohlenbrock 3300*. Also known from Hardin Co. Shawnee National Forest.

Rudbeckia palustris Eggert ex Boynt. & Beadle Pope Co.: Along Illinois Rte 145, near Glendale, wet roadside ditch, 17 Aug 2022, *Mohlenbrock 3351*. Only known previously from Jackson and Union cos. Shawnee National Forest,

Rudbeckia tenax Boynt. & Beadle Pope Co.: Old Tannery Road. FS454, wet ground, 26 Jul 2022, *Mohlenbrock 3355*. Only known previously from Jackson and Union cos. Shawnee National Forest.

Rudbeckia umbrosa Boynt. & Beadle Pope Co.: Old Tannery Road, FS454, wet ground, 26 2022, *Mohlenbrock 3354*. Known only previously from Jackson Co. Shawnee National Forest.

Solidago arguta Ait. Pope Co: Reddick Hollow, FS402C, edge of dry woods, 26 Jul 2022, *Mohlenbrock 3350*. Other southern Illinois records: Jackson and Union cos. Shawnee National Forest.

Symphotrichum concinnum (Willd.) Mohlenbr. Gallatin Co.: Black Ridge Road, mesic woods, 6 Jul 2022, *Mohlenbrock 3344*. Known also from Hardin, Pope, and Saline cos. Shawnee National Forest.

ERICACEAE

Vaccinium stamineum L. Pope Co.: 2 mi N of Hicksville Road, dry woods near sandstone cliffs, 24 Sep 2022, *Mohlenbrock 3358*. Second collection from Pope Co.; also Hardin Co.

LITERATURE CITED

Mohlenbrock, R.H. 2014. Vascular Flora of Illinois, Fourth Edition. Southern Illinois University Press, Carbondale.