

THIRTY ADDITIONS TO THE LOUISIANA FLORA

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The following taxa apparently have not previously been recorded to be a part of the Louisiana flora. Unless otherwise noted, specimens cited are on deposit in the Herbarium of the Department of Biology, University of Southwestern Louisiana (LAF). They were collected in connection with the Louisiana Flora Project, which was started at USL in 1962. Cooperation from the university and support from a National Science Foundation research grant (GB-4671) are gratefully acknowledged. Dr. Lloyd Shinnars has, as usual, unstintingly given help when it was needed.

Thelypteris torresiana (Gaud.) Alston. St. Helena Parish: mixed woods, with beech, along Darling Creek, 11 miles northwest of Greensburg, Thieret 24904, 25 September 1966. Known also as *Dryopteris setigera*, this fern is spreading in the southeast from its original introduction in Florida, where it was first collected in 1906. The blades of my collection reach 83 cm. in length. Determination of the collection was by Dr. Warren Wagner.

Bromus mollis L. Jefferson Davis Parish: rocky disturbed soil along railroad about 1.5 mile east of Roanoke, Thieret 22443, 20 April 1966.

Panicum texanum Buckl. Bienville Parish: road margin, sandy clay, 3.5 miles west of Gibsland, Shinnars 21796, 6 October 1955 (SMU); sandy field 4.5 miles northeast of Ashland, Thieret 24231, 24 August 1966. Red River Parish: weed in cotton and soybean fields just west of Coushatta, Thieret 20650, 19 September 1965.

Paspalum convexum Humb. et Bonpl. Iberia Parish: sandy soil at roadside, Weeks Island, Thieret 21705, 20 November 1965.

Trisetum interruptum Buckley. Acadia Parish: along railroad about 3.5 miles southwest of Crowley, Thieret 22863, 7 May 1966.

Xyris fimbriata Ell. St. Tammany Parish: roadside ditch 3.5 miles west of Hickory, Thieret 21663, 30 October 1965. This species was certainly to be expected in Louisiana since it occurs in Mississippi just across the Pearl River from St. Tammany Parish. The collection was determined by Dr. Kral, whose fine paper on *Xyris* was recently published in *Sida* (Kral, 1966).

Allium ampeloprasum L. Franklin Parish: several clumps in grazed field 1½ miles west of Chase, Thieret 24001, 29 June 1966. Richland Parish: grassy strip along fencerow just north of Bee Bayou, 4.5 miles west of Holly Ridge, Thieret 23813, 23 June 1966. This is a noble

species, with culms reaching 1.5 meters in height and with umbels up to 12 cm. in diameter. Its flat, scabrous-margined leaves extend $1/3$ to $1/2$ way up the stem. It is known locally as "garlic" and, indeed, is cultivated for its garlic-like offsets. The entire plant has an unpleasantly strong alliaceous odor. At the Bee Bayou locality the highway right-of-way had just been mowed. The farmer who had done the mowing told me that "garlic" had been common along the road. His assertion was borne out by the mephitic aroma of comminuted *Allium ampeloprasum* that pervaded the area.

Allium vineale L. Franklin Parish: along railroad right-of-way, Chase, Thieret 23994, 29 June 1966. This collection, having both flowers and bulbils in the inflorescence, is var. *vineale*.

Smilacina racemosa (L.) Desf. Claiborne Parish: mixed woods about $3\frac{1}{4}$ miles east of Summerfield, Thieret 24686, 30 August 1966.

Eriogonum vespinum Shinnery. Caddo Parish: dry sandy open area along highway and railroad 2.5 miles south of Ida, Thieret 24497, 27 August 1966. Growing to 1.5 meter tall, the plants have a perianth that is yellowish green inside but white silky outside.

Polygonum cespitosum Blume var. *longisetum* (DeBruyn) Stewart. Evangeline Parish: edge of wooded campground, Chicot State Park, about 8 miles north of Ville Platte, Thieret 21409, 19 October 1965. Jefferson Davis Parish: roadside ditch about $1/2$ mile south of Lacassine, Thieret 25109, 23 October 1966.

Amaranthus greggii S. Wats. Cameron Parish: Gulf of Mexico beach above high tide mark, about 3 miles east of Holly Beach, Thieret 10028, 20 October 1962. The species is found on coastal sand dunes or on sea beaches around the western end of the Gulf of Mexico from Yucatan to southwestern Louisiana.

Glinus lotoides L. Sabine Parish: low sandy areas, Many, Delzie Demaree 48395, 9 July 1963 (SMU). Two species of *Glinus* are now known to occur in Louisiana. They are most easily distinguished by their seeds, which are smooth in *G. radiatus* but minutely tuberculate in *G. lotoides*.

Delphinium virescens Nutt. Calcasieu Parish: prairie-like strip along railroad about 2 miles northeast of Vinton, Thieret 22989, 14 May 1966. Three species of *Delphinium* are now known to me from Louisiana: *D. ajacis*, *D. carolinianum*, and *D. virescens*.

Heuchera americana L. Caddo Parish: oak-pine woods on northwest facing slope about 4.5 miles northwest of Belcher, Thieret 22647, 23 April 1966. Although credited to Louisiana by Small (1933), no specimens from the state are cited by Rosendahl, Butters, and Lakela (1936) in their monograph of *Heuchera*.

Astragalus leptocarpus Torr. et Gray. Jackson Parish: roadside 3 miles north of Dodson, Thieret 22213, 3 April 1966. Winn Parish: sand along railroad, near Saline Bayou, 1.5 miles southeast of Goldonna, Thieret 22751, 24 April 1966. The suggestion by Turner (1959) that this

species might eventually be found in Louisiana has proved to be correct.

Zornia bracteata (Walt.) Gmel. Caddo Parish: dry sandy open area along highway and railroad 2.5 miles south of Ida, *Thieret* 24492, 27 August 1966. Of this species, Small (1933) says "Fla. to Tex." No Louisiana specimens were seen, however, by the recent monographer of the genus, Dr. Mohlenbrock (1961, 1962).

Phyllanthus fraternus Webster. Orleans Parish: in silty clay, in shade, Audubon Park, New Orleans, *Shinners* 25709, 2 November 1956 (SMU); weed in zoo in Audubon Park, New Orleans, *Thieret* 19219, 29 August 1966. Lafayette Parish: weed on USL campus, Lafayette, *Thieret* 18222, 14 September 1964. These collections of this weedy species, which is "presumably native to India" but "has been sparingly introduced into the West Indies" (Webster, 1955) constitute the first United States records of the taxon. My Audubon Park collection was determined by Grady L. Webster.

Corchorus aestuans L. Pointe Coupee Parish: roadside along east bank of Atchafalaya River opposite Krotz Springs, *Thieret* 18089, 1 August 1964. St. Landry Parish: roadside about 4 miles northwest of Grand Coteau, *Thieret* 18351, 24 September 1964. Lafayette Parish: old meander scar 5 miles northeast of Lafayette, *Thieret* 16439, 2 October 1963. This weedy species has been recorded previously, in southeastern United States, only from Florida and Alabama.

Elatine triandra Schkuhr var. *brachysperma* (Gray) Fassett. Cameron Parish: common in shallow muddy water in pasture run about 1 mile south of St. Peter Church, Hackberry, *F. M. Uhler* and *N. Hotchkiss* 8173, 26 May 1966. This collection has seeds with pits in rows of 11 to 14.

Myriophyllum spicatum L. Caddo Parish: very abundant in bay at east end of Cross Lake, Shreveport, *F. M. Uhler* and *N. Hotchkiss* 8214, 15 June 1966; shallow water of Caddo Lake at picnic ground just south of Oil City, *Thieret* 24459, 27 August 1966. Pointe Coupee Parish: abundant in False River, New Roads, *Thieret* 24038, 5 July 1966. This species, although almost cosmopolitan, is almost certainly an introduction to Louisiana. It is abundant enough in places to be a hindrance to boaters and fishermen. In our material the leaves are in 4s and 5s. I have not yet found flowering specimens in Louisiana.

Limnoscium pumilum (Engelm. et Gray) Math. et Const. Cameron Parish: common in clayey silt at edge of roadside ditch 5 miles southeast of Lake Arthur, *F. M. Uhler* and *N. Hotchkiss* 8165, 25 May 1966. Acadia Parish: roadside ditch near Maxie, *Thieret* 19532, 18 April 1965. Jefferson Davis Parish: edge of roadside ditch 1.5 miles east of Roanoke, *Thieret* 22447, 20 April 1966. Described as "confined to Texas" by Mathias and Constance (1951), this species is locally common and conspicuous in roadside ditches in southwestern Louisiana.

Torilis arvensis (Huds.) Link. Morehouse Parish: roadside weed, Bas-

trope, *Thieret* 23573, 20 June 1966. Tensas Parish: fence row along highway about 3.5 miles west of Newellton, *Thieret* 23968, 29 June 1966.

Stylisma pickeringii (Torr. ex M. A. Curtis) Gray var. *pattersonii* (Fern. et Schub.) Myint. Caddo Parish: dry sandy open area along highway and railroad 2.5 miles south of Ida, *Thieret* 24504, 27 August 1966. In his recent revision of *Stylisma*, Myint (1966) states: "Whether *Stylisma pickeringii* grows in Louisiana has not been definitely determined, although a collection exists bearing the locality 'W. La.' (Hale GH, NY)." The presence of the species in the state has now been confirmed. The prostrate stems of our collection reached a length of nearly 2 meters.

Phacelia strictiflora (Engelm. et Gray) Gray var. *robbinsii* Const. Winn Parish: sand along railroad, near Saline Bayou, 1.5 miles southeast of Goldonna, *Thieret* 22751, 24 April 1966.

Scutellaria cardiophylla Engelm. et Gray. Caddo Parish: dry sandy open area along highway and railroad 2.5 miles south of Ida, *Thieret* 24491, 27 August 1966. This species was certainly to be expected in Louisiana because it occurs in far eastern Texas and in southwestern Arkansas.

Scutellaria drummondii Benth. Vernon Parish: railroad ballast, Hornbeck, *Thieret* 22515, 21 April 1966. This collection represents the easternmost station for the species, which previously had been known, in the United States, only from Texas and New Mexico.

Sherardia arvensis L. Bienville Parish: sandy clay road shoulder 4.3 miles west of Gibsland, *Shinners* 23401, 25 March 1962 (SMU); roadside near Lake Bistineau, about 6 miles west northwest of Ringgold, *Thieret* 22703, 24 April 1966. Grant Parish: forming dense growth in sand along small stream in open deciduous woods about 4 miles north of Bentley, *Thieret* 22766, 24 April 1966.

Specularia lamprosperma (McVaugh) Fern. Grant Parish: roadside along Bayou Rigolette about 2 miles east of Colfax, *Thieret* 23217, 27 May 1966. This species, first described in 1945, is known to occur in Texas, Oklahoma, Arkansas, Missouri, and, now, Louisiana.

Parthenium hispidum Raf. Bossier Parish: low ridges, Bossier City, *Demaree* 20813, 6 May 1956 (SMU). Webster Parish: grassy roadside 5 miles south of Doyline, *Thieret* 24346, 25 August 1966. A rhizomatous perennial, this species formed colonies up to about a meter across in the Webster Parish site.

Pyrrhopappus geiseri Shinners. La Salle Parish: highway right-of-way west side of Tullos, *Shinners* 23991, 16 June 1956 (SMU). Red River Parish: fencerow by bottomland pasture 1.4 mile west of Grand Bayou, *Shinners* 27264, 22 April 1958 (SMU). Caddo Parish: roadside at picnic area above shore of Caddo Lake just south of Oil City, *Thieret* 22606, 22 April 1966. The determination of my collection of this species was verified by Lloyd Shinners.

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