

# AN UPDATED, ANNOTATED VASCULAR FLORA OF CADDO PARISH, LOUISIANA, WITH NOTES ON REGIONAL PHYTOGEOGRAPHY AND ECOLOGY

Barbara R. MacRoberts and Michael H. MacRoberts

*Bog Research, 740 Columbia  
Shreveport, Louisiana 71104, U.S.A.*

*and*

*Herbarium, Museum of Life Sciences  
Louisiana State University in Shreveport  
Shreveport, Louisiana 71115, U.S.A.*

*and*

*Red River Watershed Management Institute  
Louisiana State University in Shreveport  
Shreveport, Louisiana 71115, U.S.A.*

## ABSTRACT

It has been a quarter century since a checklist of the vascular flora of Caddo Parish, Louisiana, was published. Therefore, we revise and update the Caddo Parish checklist, accepting only vouchered species. We found 1405 species (1168 native, 237 non-native). Additionally, we examine the Caddo Parish flora in terms of its phytogeographical affinities. It is closely associated with the eastern United States and particularly with the southeastern United States. Caddo Parish appears to be particularly species rich compared to other parishes and counties of approximately the same size across the southeast. This may be not only because Caddo Parish is diverse but because it has been particularly well-collected. Among communities occurring in Caddo Parish, xeric sandylands are particularly well-represented and account for a high percentage of West Gulf Coastal Plain endemic and rare species.

KEY WORDS: Floristic checklist, Caddo Parish, Louisiana flora

## RESUMEN

Hace ya un cuarto de siglo que se publicó el catálogo de la flora vascular de Caddo Parish, Louisiana. Por ello, revisamos y ponemos al día el catálogo de Caddo Parish, aceptando únicamente especies con pliegos testigo. Encontramos 1405 especies (1168 nativas, 237 no nativas). Además, examinamos la flora de Caddo Parish en términos de sus afinidades fitogeográficas. Está muy asociada con el este y particularmente con el sureste de los Estados Unidos. Caddo Parish parece ser particularmente rico en especies comparado con otros condados de aproximadamente el mismo tamaño en el sureste. Esto puede que no sea solo porque Caddo Parish es diverso sino porque ha sido particularmente bien muestreado. Entre las comunidades que aparecen en Caddo Parish, están muy bien representados los campos arenosos xéricos y aparece un alto porcentaje de especies raras y endémicas de la llanura costera del oeste del golfo.

## INTRODUCTION

Caddo Parish, Louisiana, is located in the Red River watershed in the center of the West Gulf Coastal Plain (Fig. 1). It is bordered on the north by Arkansas, the west by Texas, the east by the Red River, and the south by DeSoto Parish. The only boundary that could be considered ecologically significant is the Red River; the remainder are political. Approximately equidistant from Caddo Parish are blackland prairies to the west, the Ouachita Mountains to the north, the Mississippi River and its extensive floodplain to the east, and the Gulf of Mexico to the south. Caddo Parish is located in the Oak-Pine-Hickory phytogeographical region of eastern North America (Braun 1950; Skeen et al. 1993; MacRoberts



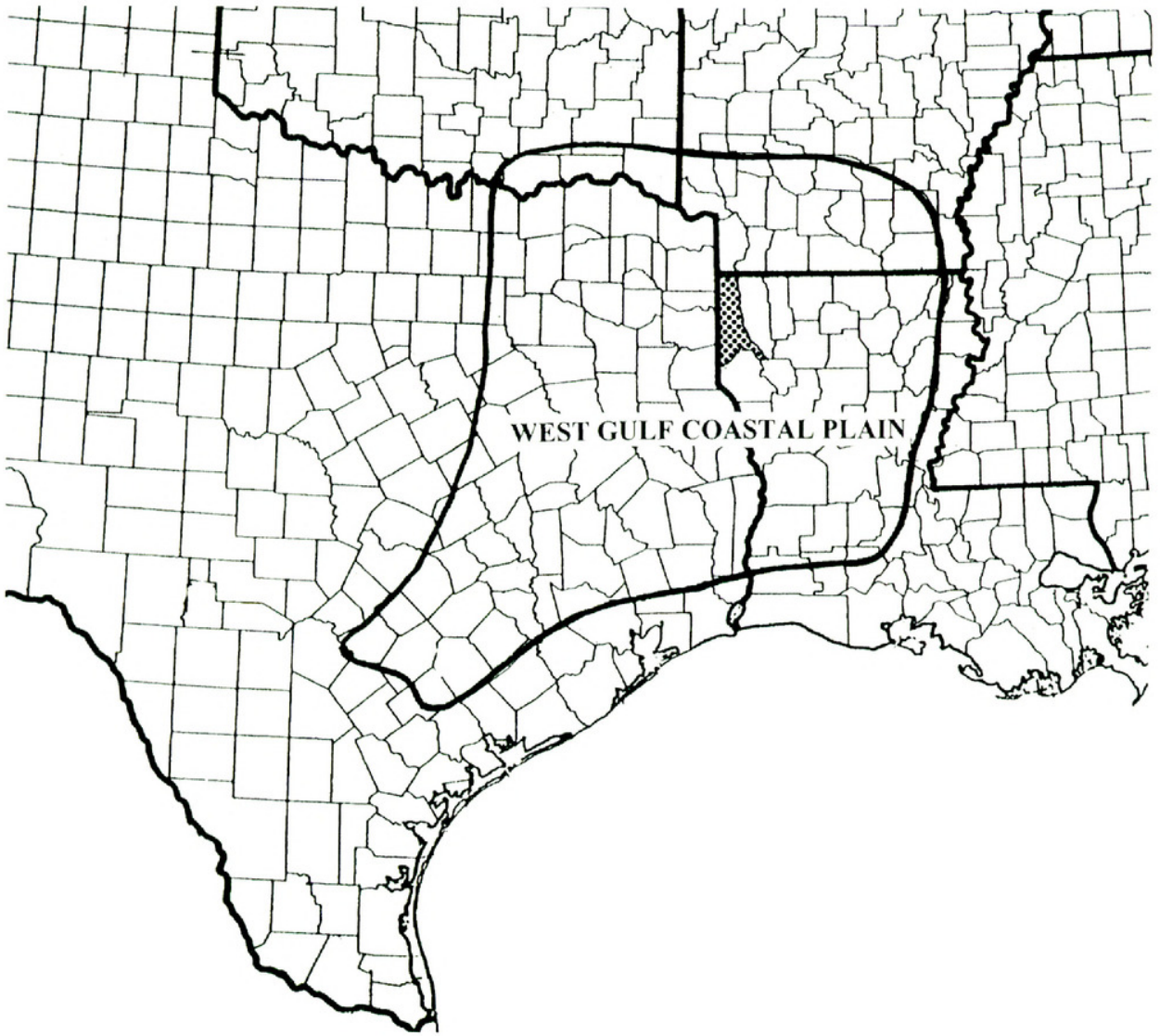


FIG. 1. Location of Caddo Parish, Louisiana.

& MacRoberts 2003a). McLaughlin (in press) places it in the Austroriparian floristic subprovince, with some characteristics of Comanchian and Illinoian subprovinces.

The topography of Caddo Parish is relatively simple. The Red River floodplain covers about 28 percent of the 2,283 km sq. parish; the remainder is uplands (Fig. 2). The floodplain forms a continuous north-to-south border along the eastern edge of the parish. The floodplain can be narrow as when the river approaches a bluff, but it is generally several kilometers wide. At the edge of the river are natural levees and swales. Floodplain elevations range from approximately 60 meters at the northern edge of the parish to about 43 meters at the southern edge. The overall north-south slope is very slight. Sediments are almost entirely of Red River alluvial origin and are Pleistocene/Holocene (Edwards et al. 1980).

Uplands flank the floodplain at its western edge. This often involves an abrupt elevation transition generally in the range of 10 to 20 meters. Elevations rise to no more than 137 meters in rolling low hills and relatively flat terraces. The upland is geologically older than the alluvium and generally consists of Tertiary deposits. The geology, soils, and climate of Caddo Parish are described by Teague and Wendt (1994) and are a continuum of east Texas (Diggs et al. 2006).

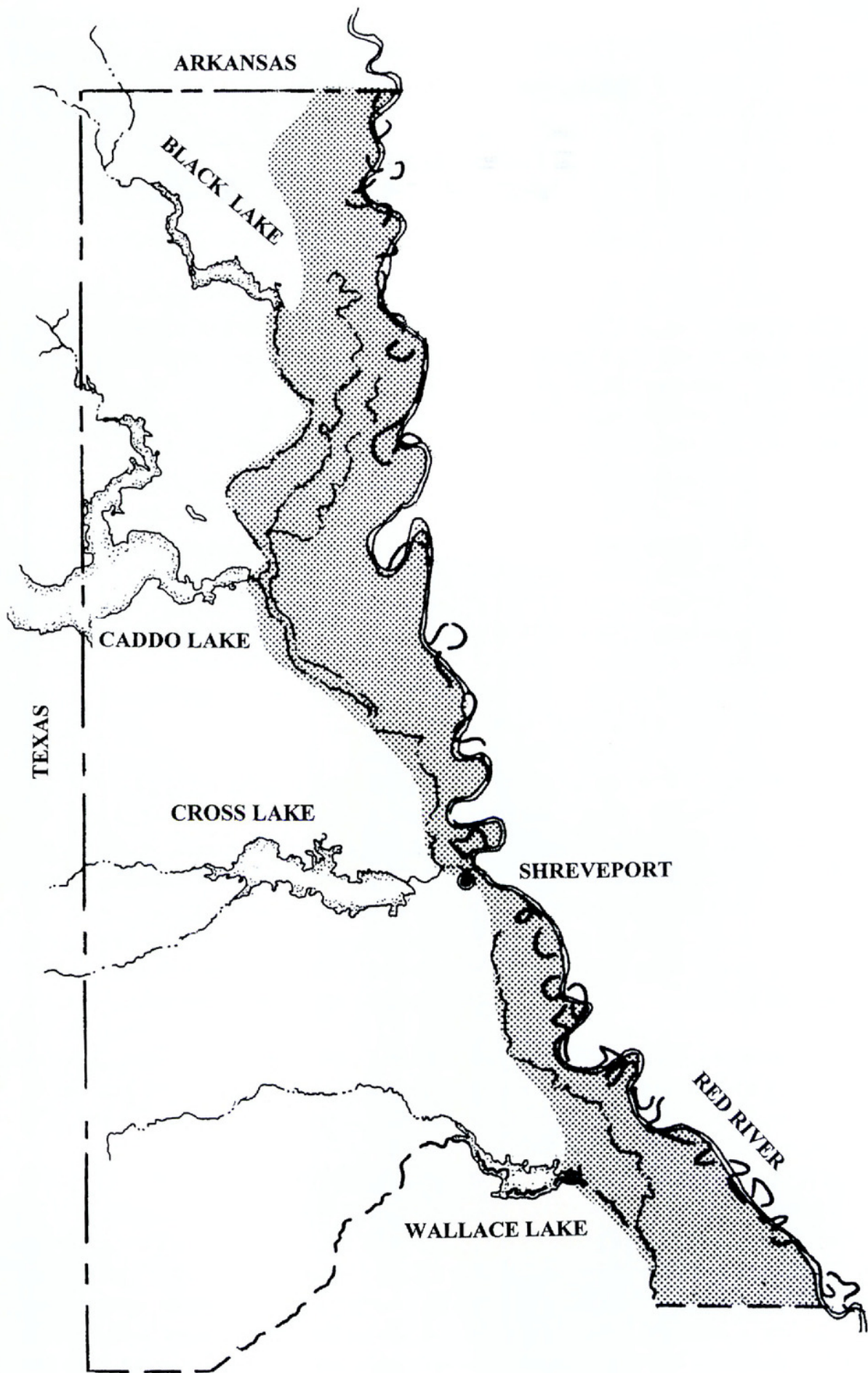


FIG. 2. Caddo Parish showing upland and floodplain (stippled).



Land surveys conducted by the Government Land Office in the 1830s show that in presettlement times the uplands were dominated by oak, pine, and hickory and the floodplains by cottonwood, sycamore, willow, pecan, box elder, ash, cypress, and hackberry, with essentially no overlap in species between upland and floodplain (MacRoberts & MacRoberts 2005). In some parts of the uplands, pine was nearly absent and oak and hickory were dominant; in others, pine reached about 50 percent of the canopy. There appeared to have been no monospecific pine forest in Caddo Parish. The distribution of woody species appears to be the same today as it was 170 years ago (MacRoberts & MacRoberts 2005).

Historically, prairies were scattered across the region in both the uplands and floodplain (MacRoberts et al. 2003; MacRoberts & MacRoberts 2004a). The large “Caddo Prairies” on the floodplain near modern day Gilliam and Hosston no longer exist, and we have little or no information about them aside from the brief descriptions Custis and Freeman made in 1806 and those in the Government Land Office survey maps and line notes (Flores 1984; MacRoberts & MacRoberts 2005). Canebrakes and cedar forests apparently were common in the early nineteenth century but are entirely gone today (Flores 1984; MacRoberts et al. 1997). The Red River Raft, an immense logjam long since cleared, caused extensive flooding and the creation of “raft lakes,” the water level of which rose and fell with the annual fluctuations of the river (Triska 1984). Wallace, Cross, and Caddo lakes are impounded remnants of the raft lakes and continue to be dominated by cypress. Oxbow lakes are common on the floodplain.

While the effects of Native Americans on the Caddo Parish landscape are unknown, the effects of Euroamericans have been extensive. The river, its floodplain, and adjacent upland ecosystems have undergone major modification over the past two centuries. Essentially the entire landscape has been converted to farms and plantations and, latterly, urban sprawl. The once continuous savanna/forest with its numerous plant communities covering hundreds of thousands of hectares is now essentially gone with only fragments of the natural vegetation remaining and few areas, if any, in virgin condition. Bald-cypress swamps, black willow riverbank shrublands, and cottonwood forests hang on while some floodplain communities such as cedar forests, canebrakes, and prairies have vanished entirely. The upland has also been modified, mainly by urban sprawl, logging, fire suppression, and clearing for farms. Vast areas of forest were clear-cut in the latter part of the nineteenth and early part of the twentieth century and replanted as pine plantations.

Caddo Parish is one of the best collected and reported Louisiana parishes and is certainly the best collected and reported parish or county in the “Ark-La-Tex” region—northeastern Texas, southwestern Arkansas, and northwestern Louisiana (Smith 1988; Thomas & Allen 1993–1998; Turner et al. 2003).

Caddo Parish was first visited and collected by Peter Custis in 1806 (Flores 1984; MacRoberts et al. 1997; MacRoberts & MacRoberts 2004b). Josiah Hale collected in the parish in the mid-nineteenth century. N.F. Peterson from Louisiana State University and Reginald W.S. Cocks from Tulane University collected in Caddo Parish in the early twentieth century. F.W. Pennell from the Academy of Natural Sciences in Philadelphia worked briefly in the area in 1913 when he collected the only known example of *Agalinis caddoensis* (MacRoberts 1978b; Canne-Hilliker & Debrule 1993). E.J. Palmer from Missouri Botanical Garden and D.S. and H.B. Correll (1941), working out of Duke University, collected in the area in the late 1930s. Clair A. Brown from Louisiana State University



sporadically collected in Caddo Parish through the mid-century. John W. Thieret, then at the University of Southwestern Louisiana in Lafayette (now University of Louisiana in Lafayette), collected in Caddo Parish in the 1960s. During the early 1970s, Rosalie Overby (1974) collected the flora of Caddo Parish for her thesis at the University of Louisiana at Monroe (formerly Northeast Louisiana University) under the direction of R. Dale Thomas, who also collected regularly in the parish into the twenty-first century. Upon beginning the herbarium at Louisiana State University in Shreveport in the early 1970s, D.T. MacRoberts collected the parish for the next three decades. His collections and those of various students and faculty resulted in numerous contributions to the flora of Louisiana (MacRoberts 1977a, 1977b, 1978a, 1978b, 1979a, 1979b, 1980a, 1980b, 1980c, 1984a, 1984b, 1987, 1989; MacRoberts et al. 1997). Allen et al. (2004) collected mainly grasses in Caddo Parish through the late twentieth and early twenty-first centuries. Special studies have been undertaken such as those of xeric sandylands in northern Caddo Parish (MacRoberts & MacRoberts 1995) and the Bickham-Dickson Park/Red River Watershed Research Park on the Red River floodplain in Shreveport (MacRoberts & MacRoberts in prep.). Other notable collections are those of Larry Raymond from the Walter Jacobs Memorial Park, near Blanchard (Thomas et al. in press). The Louisiana Natural Heritage Program has been active in documenting the rare flora of Caddo Parish (Louisiana Natural Heritage Program 2006; Reid & Faulkner in press).

The purpose of this paper is to provide an updated, vouchered checklist of the vascular flora of Caddo Parish, put Caddo Parish in its phytogeographic context, summarize data on rare plants found in Caddo Parish, and summarize data on regional endemics. The construction of the list has been both aided and hampered by precedents. While previous lists often provided information on where specimens might be found, they did not do so invariably. Although we located vouchers for most reported taxa, many reported taxa could not be located, presumably because the specimens were misfiled (lost), out on loan, initially misidentified and subsequently annotated to another taxon, or were located in an unspecified herbarium. Additionally, some authors reported taxa for which no voucher was collected (i.e., "sight records").

#### METHODS

Using published accounts (MacRoberts 1979a, 1984a, 1989; Gandhi & Thomas 1989; Thomas & Allen 1993–1998; MacRoberts & MacRoberts 1995; Allen et al. 2004; Louisiana Natural Heritage Program 2004, 2006; Thomas et al. in press; MacRoberts & MacRoberts in prep.), we compiled a checklist (with vouchers where possible) of species reported for Caddo Parish. We then checked the list against Kartesz and Meacham (1999) and *Flora of North America* (Flora of North America Editorial Committee 1993–2006) to eliminate synonyms and to correct nomenclature. We searched LSUS and NLU for vouchers in addition to obtaining loans from BRIT, DUKE, LAF, LSU, LTU, MO, NLU, NO, and US.

Some authors included various waifs and garden and horticultural "escapes" (e.g., corn [*Zea mays* L.], and okra [*Abelmoschus esculentus* (L.) Moench]) and we had to make a judgement as to their status in the flora. We decided to eliminate almost all of these unless we had good reason to believe that they are propagating themselves in the wild or at least persisting.

Our taxonomic viewpoint favors "lumping" and we do not concern ourselves here with taxa below the species level, the reason being that not only are authors inconsistent on the number of infraspecific taxa recognized (e.g., compare Smith 1994; Thomas & Allen



1993–1998; Turner et al. 2003) but also on how to divide (and identify) the often subtle morphological differences between certain species. Consequently, when comparing floristic richness between various geographic areas, our list should be recognized as a “species” list, not a “taxa” list. We do not include species on the vouchered list that we have not inspected except for some *Cyperus* determined by D. Ferguson (LSU, pers. comm.) and two specimens determined by C. Reid (Louisiana Natural Heritage Program, pers. comm.).

Nomenclature and authorities follow Kartesz and Meacham (1999) in most cases. For acaulescent violets, we follow McKinney (1992) and McKinney and Russell (2002). For *Gamochaeta*, we follow Nesom (2004a, 2004b).

In order to put Caddo Parish into a phytogeographic context, we randomly selected 417 native species from our list and, using Kartesz and Meacham (1999) and Thomas and Allen (1993–1998), determined their distribution by state or region across North America north of Mexico (see MacRoberts & MacRoberts 2003b for method). On the basis of this and other phytogeographical information, we developed a thematic map of the floristic affinities between Caddo Parish and the remainder of North America.

Rare plants often indicate rare habitat and vice versa. Using the Louisiana rare plant list (Louisiana Natural Heritage Program 2006), we listed all rare plants found in Caddo Parish and their primary habitat. We then summarized these data by habitat. Regionally endemic plants also indicate unique habitat, as do singularities. Because Caddo Parish is in the center of the West Gulf Coastal Plain, we used a list of endemics in that region to determine how many occur in Caddo Parish and with which community they are associated (M.H. MacRoberts et al. 2002). Additionally, Louisiana plant species that occur only in Caddo Parish were determined using the Louisiana Natural Heritage Program (2006) rare plant list and Thomas and Allen (1993–1998). We listed these and their associated habitats.

## RESULTS AND DISCUSSION

We documented 1405 species in Caddo Parish (1168 native and 237 non-native). The vouchered checklist of the vascular plants of Caddo Parish is given after the discussion. Figure 3 gives the results of the phytogeographic analysis of Caddo Parish species. Table 1 gives Caddo Parish rare plants/plant community associations. Table 2 gives West Gulf Coastal Plain endemic species/community associations that occur in Caddo Parish. Table 3 lists the Louisiana native species found only in Caddo Parish with their associated communities.

The figure of 1405 species for Caddo Parish is higher than that for most parishes and counties of similar size throughout the southeastern United States (e.g., Nesom & Brown 1998; Leidolf et al. 2002; Neyland 2002; Marsico 2005). However, Caddo Parish has been better collected than most parishes and counties and additional collecting would bring up their species counts.

North America north of Mexico has approximately 19,000 vascular plant species (Thorne 1993; Kartesz & Meacham 1999). Caddo Parish has 7.4 percent of this total but constitutes only 0.01 percent of the land area. Likewise, while Caddo Parish constitutes only about 1 percent of the land area of the West Gulf Coastal Plain, it contains about 36 percent of the West Gulf Coastal Plain flora.

The Caddo Parish flora is eastern and specifically southeastern. Caddo Parish shares 99 percent of its flora with Texas, 98 percent with the remainder of Louisiana, 98 percent with Arkansas, 91 percent with Mississippi and Alabama, 88 percent with Oklahoma, 50



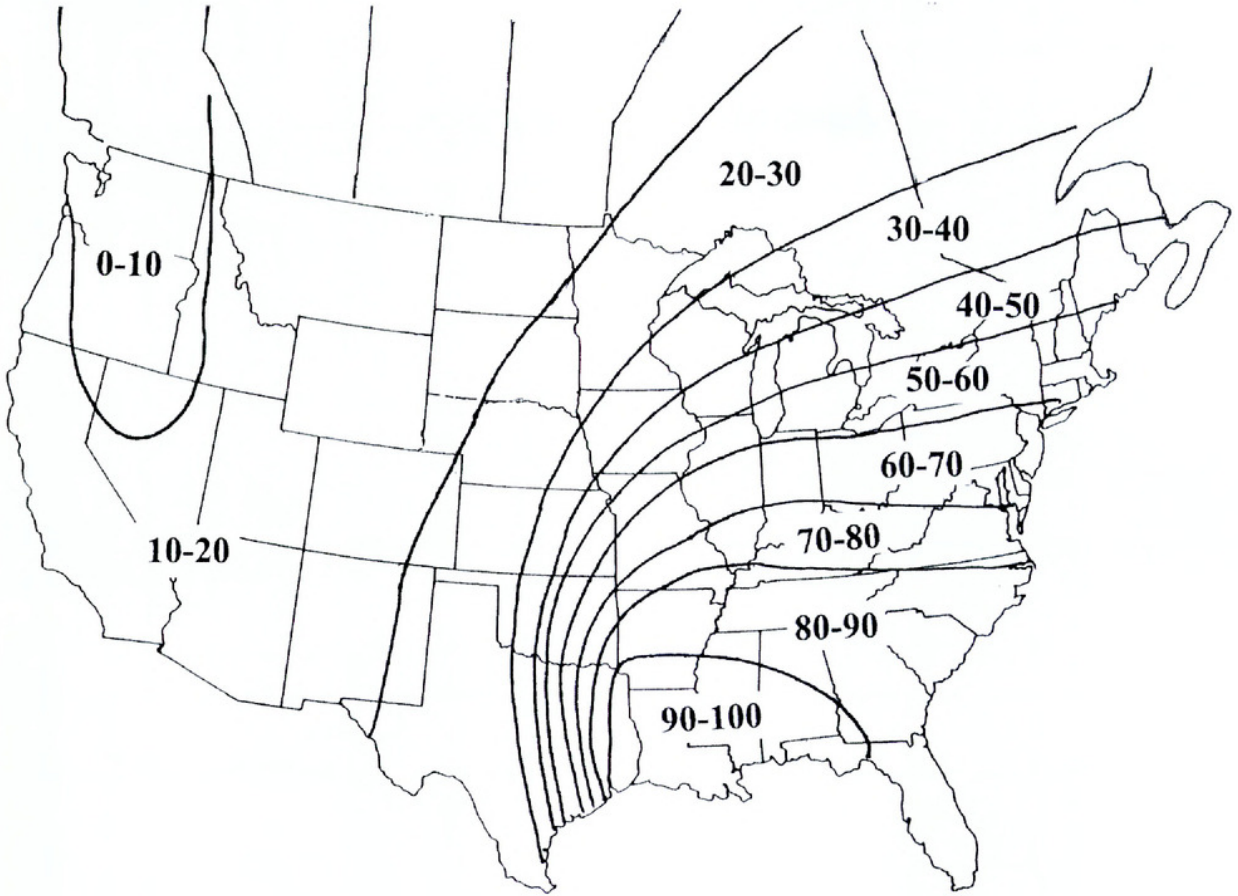


FIG. 3. The North American distribution as percent of total species of Caddo Parish plants shown thematically.

percent with the New England states, but only 21 percent with New Mexico. While Caddo Parish has 99 percent of its flora in common with Texas, there is a sharp transition zone across Texas in which eastern species drop out and are replaced by western species (MacRoberts & MacRoberts 2003b). The transition is much less dramatic to the north and east. This pattern is also shown in McLaughlin (in press).

Thirty-six percent of the Louisiana rare species listed by the Louisiana Natural Heritage Program (2006) for Caddo Parish are essentially specific to one community: xeric sandylands (MacRoberts & MacRoberts 1995; B.R. MacRoberts et al. 2002). The next ranked community for rare species for Caddo Parish is calcareous prairie with 16 percent (MacRoberts et al. 2003) and saline prairie with 14 percent, followed by pine-hardwood forest with 11 percent (Larke & Smith 1994). The remaining 23 percent of rare species are spread among six plant communities.

Caddo Parish has 45 of the approximately 100 West Gulf Coastal Plain endemic taxa (MacRoberts et al. 2002), of which 64 percent are associated with xeric sandylands. The next highest communities for endemics are baygalls and calcareous prairies with 9 and 7 percent, respectively. The remainder of endemics are spread among five communities.

Of the 15 native Louisiana species occurring only in Caddo Parish, 8 occur in xeric sandylands, once again pinpointing this habitat/community as unique.

Since two communities account for the majority of rare and endemic species in Caddo Parish, perhaps some comments on these communities is desirable.

Xeric sandylands are found in eastern Texas, southeastern Oklahoma, southwestern Arkansas, and western Louisiana (McBryde 1933; MacRoberts & MacRoberts 1994, 1995,



TABLE 1. Rare plants/community associations for Caddo Parish.

| Community            | Number of Rare Plants | Percentage |
|----------------------|-----------------------|------------|
| Xeric sandyland      | 27                    | 36         |
| Calcareous Prairie   | 12                    | 16         |
| Saline Prairie       | 10                    | 14         |
| Pine-Hardwood Forest | 8                     | 11         |
| Calcareous Forest    | 5                     | 7          |
| Baygall              | 3                     | 4          |
| Swamp                | 3                     | 4          |
| Small Stream Forest  | 2                     | 3          |
| Batture Forest       | 1                     | 1          |
| Unknown              | 3                     | 4          |
| Total                | 74                    | 100        |

TABLE 2. Endemic West Gulf Coastal Plain plant species with community associations for Caddo Parish.

| Community             | Number of Endemic Plants | Percentage |
|-----------------------|--------------------------|------------|
| Xeric sandyland       | 29                       | 64         |
| Baygall               | 4                        | 9          |
| Calcareous Prairie    | 3                        | 7          |
| Pine-Hardwood Forest  | 2                        | 4          |
| Floodplain/Bottomland | 2                        | 4          |
| Mayhaw Pond           | 2                        | 4          |
| Small Stream Forest   | 1                        | 2          |
| Barrens               | 1                        | 2          |
| Unknown               | 1                        | 2          |
| Total                 | 45                       | 100        |

1996, 1997; B.R. MacRoberts et al. 2002; Diggs et al. 2006). They are open to sparsely wooded areas that typically occur on terraces or ridges composed of deep sands, generally of marine Tertiary origin. Water and air move through these sands creating a dry, desert-like environment. Soils, where undisturbed, are often cryptogamic. Lichens (e.g., *Cladonia* spp.) may be common. *Quercus incana* is common, but stunted *Q. stellata* and *Q. margarettiae* are also present. Other characteristic species include *Bulbostylis ciliatifolia*, *Cnidoscolus texanus*, *Coreopsis intermedia*, *Croton argyranthemus*, *Eriogonum longifolium*, *E. multifolium*, *Froelichia floridana*, *Hymenopappus artemisiifolius*, *Matelea cynanchoides*, *Mirabilis albida*, *Opuntia humifusa*, *Paronychia drummondii*, *Pedimelum digitatum*, *P. hypogaeum*, *Penstemon murrayanus*, *Phlox drummondii*, *Polygonella americana*, *Selaginella arenicola*, *Streptanthus hyacinthoides*, *Talinum rugospermum*, *Tetragonotheca ludoviciana*, *Thelesperma filifolium*, *Tradescantia reverchonii*, *Yucca louisianensis*, and *Zornia bracteata*. Floristic richness is high in this community. Although widespread, xeric sandylands are not a dominant community across the West Gulf Coastal Plain and are generally found in relatively small patches. At the time of European settlement, it has been estimated that xeric sandylands accounted for less than one percent of western Louisiana (Lester et al. 2005) and, although there are no published figures, probably much less than this in either Oklahoma or Arkansas. In Texas,



TABLE 3. Native Louisiana species found only in Caddo Parish with community associations.

---

|                                                                     |
|---------------------------------------------------------------------|
| <i>Agalinis caddoensis</i> (community unknown)                      |
| <i>Callirhoe digitata</i> (prairie?)                                |
| <i>Callirhoe involucrata</i> (prairie?)                             |
| <i>Carex arkansana</i> (upland forest, roadside, saline prairie?)   |
| <i>Coreopsis intermedia</i> (xeric sandyland)                       |
| <i>Dalea phleoides</i> (xeric sandyland)                            |
| <i>Dasistoma macrophylla</i> (mixed pine-hardwood forest)           |
| <i>Helianthemum rosmarinifolium</i> (mima mounds in saline prairie) |
| <i>Loeflingia squarrosa</i> (xeric sandyland)                       |
| <i>Matelea cynanchoides</i> (xeric sandyland)                       |
| <i>Pediomelum digitatum</i> (xeric sandyland)                       |
| <i>Prunus gracilis</i> (xeric sandyland)                            |
| <i>Talinum rugospermum</i> (xeric sandyland)                        |
| <i>Thelesperma filifolium</i> (xeric sandyland)                     |
| <i>Trillium pusillum</i> (baygall)                                  |

---

especially along the Carrizo formation, xeric sandylands were common, but for the whole of this region this community is unlikely to have amounted to more than 5 percent of the area. Today, most xeric sandylands have been destroyed. Again figures are not available, but probably less than 5 to 10 percent of the original remain in any natural condition. Most of this community has been converted to pine plantations, grazing land, and watermelon patches. In Caddo Parish, it is decidedly rare and is found only in the northern part of the parish near Mira, Ida, Rodessa, and Vivian. Over the last twenty years, we have watched considerable acreage of this community vanish under cultivation, urban sprawl, and habitat deterioration caused by fire suppression (MacRoberts & MacRoberts 1995, 1998). Generally speaking, therefore, it represents a minor community by area but is an important community because of endemism and locally rare species.

Calcareous prairies were once widespread across the West Gulf Coastal Plain (MacRoberts et al. 2003; MacRoberts & MacRoberts 2004a; Lester et al. 2005). Virtually none of this community is left today and none in Caddo Parish although prairies were once fairly common not only in the uplands, but on the floodplain as well (MacRoberts et al. 1997; MacRoberts & MacRoberts 2004b). While prairies were common in central Texas (Diggs et al. 1999), far less than one percent of Louisiana (or Caddo Parish) was ever prairie land (MacRoberts et al. 2003; MacRoberts & MacRoberts 2004a). Today, Louisiana prairies can be counted only in the tens to hundreds of hectares.

Another community that deserves mention because of its rareness is saline prairie. This community occurs in several places in the West Gulf Coastal Plain (McInnis et al. 1993; Keith et al. 2004; Lester et al. 2005). It has received some attention because *Geocarpon minimum*, which is listed as federally threatened, occurs in it. In Caddo Parish, there are two known saline prairies. One, about 0.5 ha, was discovered by Overby (1974); the other, a prairie of 11 ha, was found in 2005 by C. Reid of the Louisiana Natural Heritage Program (Barron Road Saline Prairie). Overby found *Talinum parviflorum* in the prairie she located. We examined the Overby prairie several times, and relocated *Talinum*, but the last time we visited the site in March 2006, it had nearly been destroyed by all-terrain vehicles (ATVs). Barron Road Prairie is also damaged by ATVs.

Saline prairie is mostly treeless (mima mounds may be present), with many open soil areas known as “slicks” with cryptogamic, high sodium soils, and sparse vegetation.



Characteristic plants include *Anagallis minima*, *Claytonia virginica*, *Crassula aquatica*, *Eragrostis lugens*, *Evolvulus sericeus*, *Houstonia micrantha*, *Houstonia pusilla*, *Houstonia rosea*, *Krigia occidentalis*, *Lepuropetalon spathulatum*, *Plantago pusilla*, and *Sporobolus vaginiflorus*. Ten Louisiana and one globally rare species have been located at the Barron Road Saline Prairie. These are *Cooperia drummondii*, *Geocarpon minimum*, *Gratiola flava*, *Helianthemum rosmarinifolium*, *Lotus unifoliolatus*, *Minuartia drummondii*, *Minuartia muscorum*, *Phacelia glabra*, *Schoenolirion wrightii*, and *Talinum parviflorum*.

The two surviving plant collections from the 1806 Freeman-Custis' Red River Expedition are *Eustoma russellianum* (Hook.) G. Don and *Veronicastrum virginicum* (L.) Farw. (Flores 1984; MacRoberts & MacRoberts 2004b). *Eustoma russellianum* does not occur anywhere in the region today, and *Veronicastrum virginicum* is very rare in the region and has not been found in Caddo or Bossier parishes since Custis' original collection. We have noted this same pattern with subsequent early collectors in the area. Pennell found the only species endemic to Caddo Parish—*Agalinis caddoensis*—near Shreveport in 1913; it has not been found since. Hale, Cocks, Peterson, Correll, Palmer, and other early collectors found species in the area that are either very rare today or entirely missing (e.g., *Buchloe dactyloides*, *Dasistoma macrophylla*, *Gratiola flava*, *Helianthus occidentalis*, *Helianthus petiolaris*, *Onosmodium bejariense*, *Panicum flexile*, *Prosopis glandulosis*, *Sophora affinis*, and *Taenidia integerrima*). This suggests that in the last two centuries, a great deal of the original habitat has been lost and that the flora was once richer in native species than it is today.

VOUCHERED CHECKLIST OF VASCULAR PLANTS

The following is a vouchered list of the vascular plants for Caddo Parish. We list one voucher for each species. Key to vouchers: **DTM** = D.T. MacRoberts. Unless otherwise stated, his specimens are at LSUS. **RDT** = R. Dale Thomas. Unless otherwise stated, his specimens are at NLU. **MM** = B.R. and M.H. MacRoberts. Unless otherwise stated, their specimens are at LSUS. **Raymond** = Larry R. Raymond. The herbarium where his specimens are located is always given. **Hardy** = L.M. Hardy. His specimens are at LSUS. **Haynes** = Robert Haynes. His specimens are at LSUS. **Barbour** = Philip Barbour. His specimens are at LSUS unless otherwise stated. Other collectors are given full citations. An \* (asterisk) indicates a non-native species.

PTERIDOPHYTES

ASPLENIACEAE

*Asplenium platyneuron* (L.) B.S.P.; DTM 829

AZOLLACEAE

*Azolla caroliniana* Willd.; MM 5935

BLECHNACEAE

*Woodwardia areolata* (L.) T. Moore; DTM 1546

*Woodwardia virginica* (L.) Sm.; RDT 33699

DENNSTAEDTIACEAE

*Pteridium aquilinum* (L.) Kuhn; DTM 898

DRYOPTERIDACEAE

*Athyrium filix-femina* (L.) Roth; DTM 1221

\**Cyrtomium falcatum* (L. f.) K. Presl; DTM 113 (questionably naturalized)

*Onoclea sensibilis* L.; DTM 950

*Polystichum acrostichoides* (Michx.) Schott; DTM 2197

*Woodsia obtusa* (Spreng.) Torr.; DTM 835

EQUISETACEAE

*Equisetum hyemale* L.; Barbour 932

*Equisetum × ferrissii* Clute; DTM 1700

ISOETACEAE

*Isoetes melanopoda* Gay & Durieu ex Durieu; RDT 89029

LYGODIACEAE

\**Lygodium japonicum* (Thunb. ex Murr.) Sw.; DTM 1090

OPHIOGLOSSACEAE

*Botrychium bitematum* (Sav.) Underwood; DTM 2012

*Botrychium dissectum* Spreng.; Raymond 1600 NLU

*Botrychium lunarioides* (Michx.) Sw.; RDT 148118

*Botrychium virginianum* (L.) Sw.; DTM 2222

*Ophioglossum crotalophoroides* Walt.; MM 6062



*Ophioglossum engelmannii* Prantl; RDT 34526 LSU  
*Ophioglossum nudicaule* L.f.; RDT 51996  
*Ophioglossum petiolatum* Hook.; RDT 33845 LSU  
*Ophioglossum vulgatum* L.; MM 154

**OSMUNDACEAE**

*Osmunda cinnamomea* L.; DTM 2156  
*Osmunda regalis* L.; DTM 2157

**POLYPODIACEAE**

*Pleopeltis polypodioides* (L.) Andrews & Windham; DTM 949

**SELAGINELLACEAE**

*Selaginella arenicola* Underwood; MM 2840

**THELYPTERIDACEAE**

*Thelypteris kunthii* (Desv.) Morton; DTM 1734  
*Thelypteris palustris* Schott; DTM 1212

**GYMNOSPERMS**

**CUPRESSACEAE**

*Juniperus virginiana* L.; DTM 1609  
*Taxodium distichum* (L.) L.C. Rich.; MM 6514

**PINACEAE**

*Pinus echinata* P. Mill.; MM 6199  
*Pinus taeda* L.; MM 5982

**ANGIOSPERMS**  
**MONOCOTYLEDONS**

**AGAVACEAE**

*Manfreda virginica* (L.) Salisb. ex Rose; DTM 1861  
*Yucca louisianensis* Trel.; MM 241

**ALISMATACEAE**

*Echinodorus cordifolius* (L.) Griseb.; DTM 77  
*Sagittaria graminea* Michx.; DTM 1315  
*Sagittaria latifolia* Willd.; DTM 672  
\**Sagittaria montevidensis* Cham. & Schlecht.; DTM 1590  
*Sagittaria papillosa* Buch.; DTM 1300  
*Sagittaria platyphylla* (Engelm.) J.G. Sm.; DTM 1216

**ARACEAE**

*Arisaema dracontium* (L.) Schott; DTM 377  
*Arisaema triphyllum* (L.) Schott; DTM 2153  
\**Colocasia esculenta* (L.) Schott; DTM 1306  
*Peltandra virginica* (L.) Schott; DTM 2224

**ARECACEAE**

*Sabal minor* (Jacq.) Pers.; MM 190

**BROMELIACEAE**

*Tillandsia usneoides* (L.) L.; DTM 3002

**BURMANNIACEAE**

*Burmannia biflora* L.; Reid 4639 LSU (Reid, pers. comm.)

**CANNACEAE**

\**Canna indica* L.; DTM 1855 (questionably naturalized)

**COMMELINACEAE**

\**Commelina communis* L.; DTM 2329  
*Commelina diffusa* Burm. f.; DTM 1408  
*Commelina erecta* L.; DTM 141  
*Commelina virginica* L.; DTM 486  
*Tradescantia hirsutiflora* Bush; DTM 855  
*Tradescantia occidentalis* (Britt.) Smyth; DTM 473  
*Tradescantia ohiensis* Raf.; DTM 1693  
*Tradescantia reverchonii* Bush; DTM 1715

**CYPERACEAE**

*Bulbostylis capillaris* (L.) Kunth ex C.B. Clarke; RDT 155761  
*Bulbostylis ciliatifolia* (Ell.) Fern.; MM 2833  
*Carex albicans* Willd. ex Spreng.; Raymond 1722 NLU  
*Carex albolutescens* Schwein.; Hyatt 8580 LSU  
*Carex arkansana* (Bailey) Bailey; Thieret 25936 LAF  
*Carex atlantica* Bailey; RDT 95343 LSU  
*Carex austriacina* Mackenzie; RDT 99527  
*Carex blanda* Dewey; RDT 170061  
*Carex caroliniana* Schwein.; MM 7389  
*Carex cherokeensis* Schwein.; DTM 1736  
*Carex complanata* Torr. & Hook.; Barbour 990  
*Carex crebriflora* Wieg.; Raymond 1234 NLU  
*Carex crinita* Lam.; DTM 2231  
*Carex crus-corvi* Shuttlew. ex Kunze; DTM 1353  
*Carex debilis* Michx.; RDT 95345  
*Carex decomposita* Muhl.; MM 7429  
*Carex festucacea* Schkuhr ex Willd.; Thieret 22620 LAF  
*Carex flaccosperma* Dewey; Raymond 1213 LSUS  
*Carex frankii* Kunth; DTM 1281  
*Carex glaucescens* Ell.; Raymond 1359 LSU  
*Carex glaucoidea* Tuckerman ex Olney; RDT 99544  
*Carex hyalina* Boott; MM 3126  
*Carex hyalinolepis* Steud.; Raymond 1430 NLU  
*Carex intumescens* Rudge; Barbour 979  
*Carex joorii* Bailey; RDT 167047  
*Carex leavenworthii* Dewey; MM 6021  
*Carex leptalea* Wahl.; Reid 4864 LSU (Reid, pers. comm.)  
*Carex louisianica* Bailey; DTM 1237  
*Carex lupulina* Muhl. ex Willd.; DTM 2352  
*Carex lurida* Wahlenb.; DTM 1236  
*Carex meadii* Dewey; MM 2525  
*Carex muehlenbergii* Schkuhr ex Willd.; RDT 88719  
*Carex nigromarginata* Schwein.; Haynes 5697  
*Carex oxylepis* Torr. & Hook.; Barbour 983  
*Carex planispicata* Naczi; Raymond 1677 NLU  
*Carex reniformis* (Bailey) Small; Raymond 1214 NLU  
*Carex retroflexa* Muhl. ex Willd.; MM 6174  
*Carex styloflexa* Buckl.; DTM 1640  
*Carex texensis* (Torr.) Bailey; RDT 88223  
*Carex triangularis* Boeckl.; RDT 99524  
*Carex tribuloides* Wahlenb.; RDT 170062  
*Carex vulpinoidea* Michx.; DTM 1349  
*Cyperus acuminatus* Torr. & Hook. ex Torr.; DTM 2332  
*Cyperus compressus* L.; RDT 32983  
*Cyperus croceus* Vahl; MM 6834



\**Cyperus difformis* L.; MM 6993  
*Cyperus echinatus* (L.) Wood.; DTM 1931  
*Cyperus erythrorhizos* Muhl.; Haynes 5430  
*Cyperus esculentus* L.; MM 6857  
*Cyperus filiculmis* Vahl; RDT 170174 (Ferguson, pers. comm.)  
*Cyperus flavescens* L.; C.E. DePoe 6652-1 NLU (Ferguson, pers. comm.)  
*Cyperus flavicomus* Michx.; Shireman 57 LSU  
 \**Cyperus iria* L.; DTM 1444  
*Cyperus odoratus* L.; MM 6983  
*Cyperus oxylepis* Nees ex Steud.; RDT 37207  
*Cyperus plukenetii* Fern.; Lynch 2639 LSUS  
*Cyperus polystachyos* Rottb.; Lynch 2674 LSUS  
*Cyperus pseudovegetus* Steud.; RDT 166992 (Ferguson, pers. comm.)  
*Cyperus retroflexus* Buckl.; MM 2725  
*Cyperus retrorsus* Chapm.; MM 6630  
 \**Cyperus rotundus* L.; DTM 1361  
*Cyperus strigosus* L.; RDT 45424 (Ferguson, pers. comm.)  
*Cyperus virens* Michx.; Overby 85 NLU (Ferguson, pers. comm.)  
*Eleocharis acicularis* (L.) Roemer & J.A. Schultes; DTM 1458  
*Eleocharis obtusa* (Willd.) J.A. Schultes; DTM 1238  
*Eleocharis palustris* (L.) Roemer & J.A. Schultes; MM 6429  
*Eleocharis parvula* (Roemer & J.A. Schultes) Link; Barbour 498  
*Eleocharis tortilis* (Link) J. A. Schultes; RDT 33624  
*Eleocharis tuberculosa* (Michx.) Roemer & J.A. Schultes; RDT 36268  
*Fimbristylis autumnalis* (L.) Roemer & J.A. Schultes; DTM 1567  
*Fimbristylis miliacea* (L.) Vahl; DTM 1542  
*Fimbristylis puberula* (Michx.) Vahl; Raymond 2147 LSUS  
*Fimbristylis tomentosa* Vahl; DTM 1528  
*Fimbristylis vahlii* (Lam.) Link; DTM 1512  
*Fuirena simplex* Vahl; MM 6673  
*Fuirena squarrosa* Michx.; RDT 140688  
*Isolepis carinata* Hook. & Arn. ex Torr.; DTM 2829  
*Isolepis molesta* (M.C. Johnston) S.G. Sm.; Shinnars 28087 BRIT  
*Kyllinga brevifolia* Rottb.; DTM 1928  
*Kyllinga odorata* Vahl; DTM 1314  
*Kyllinga pumila* Michx.; RDT 32974  
*Lipocarpha micrantha* (Vahl) G. Tucker; Shireman 56 LSU  
*Rhynchospora caduca* Ell.; Raymond 2028 LSUS  
*Rhynchospora corniculata* (Lam.) A. Gray; DTM 1113  
*Rhynchospora glomerata* (L.) Vahl; Barbour 494  
*Rhynchospora harveyi* W. Boott; MM 7427  
*Rhynchospora inexpansa* (Michx.) Vahl; Haynes 5352  
*Scirpus atrovirens* Willd.; Allen 7975 NO  
*Scirpus cyperinus* (L.) Kunth; DTM 1448  
*Scleria ciliata* Michx.; RDT 11904  
*Scleria oligantha* Michx.; Allen 3766 LAF

*Scleria pauciflora* Muhl. ex Willd.; Allen 9879 LAF  
*Scleria triglomerata* Michx.; RDT 92403  
*Websteria confervoides* (Poir.) S. Hooper; Barbour 495 LSU

## DIOSCOREACEAE

*Dioscorea villosa* L.; DTM 1288

## HYDROCHARITACEAE

\**Egeria densa* Planch.; Barbour 483  
*Limnobium spongia* (Bosc) L.C. Rich. ex Steud.; Haynes 5342

## IRIDACEAE

*Alophia drummondii* (Graham) R.C. Foster; DTM 1762  
*Herbertia lahue* (Molina) Goldblatt; MM 198  
*Iris brevicaulis* Raf.; Raymond 2094 LSUS  
*Iris fulva* Ker-Gawl.; French s.n. NLU  
*Iris giganticaerulea* Small; Overby 192 NLU  
 \**Iris pallida* Lam.; Laborde 44 LSUS  
 \**Iris pseudacorus* L.; MM 172  
*Iris virginica* L.; DTM 2291  
*Nemastylis geminiflora* Nutt.; DTM 369  
*Sisyrinchium angustifolium* P. Mill.; DTM 415  
*Sisyrinchium atlanticum* Bickn.; DTM 340  
*Sisyrinchium langloissii* Greene; MM 2558  
*Sisyrinchium minus* Engelm. & A. Gray; Thieret 25939 LAF  
*Sisyrinchium rosulatum* Bickn.; DTM 866

## JUNCACEAE

*Juncus acuminatus* Michx.; RDT 81369  
*Juncus brachycarpus* Engelm.; DTM 1112  
*Juncus bufonius* L.; MM 6445  
 \**Juncus capitatus* Weigel; RDT 128670 LSU  
*Juncus coriaceous* Mackenzie; DePoe 6650 NLU  
*Juncus dichotomus* Ell.; DTM 1272  
*Juncus diffusissimus* Buckl.; DTM 1234  
*Juncus dudleyi* Wieg.; RDT 81373  
*Juncus effusus* L.; DTM 1244  
*Juncus marginatus* Rostk.; DTM 1235  
*Juncus nodatus* Coville; Raymond 1241 NLU  
*Juncus polycephalus* Michx.; RDT 629  
*Juncus repens* Michx.; RDT 136859  
*Juncus scirpoides* Lam.; RDT 33633  
*Juncus tenuis* Willd.; DTM 1163  
*Juncus torreyi* Coville; RDT 128675  
*Juncus validus* Coville; DTM 1269  
*Luzula bulbosa* (Wood) Smyth & Smyth; Haynes 4568

## LEMNACEAE

*Lemna aequinoctialis* Welw.; Overby 86 NLU  
*Lemna minor* L.; Haynes 4220  
*Lemna valdiviana* Phil.; Haynes 4157  
*Spirodela polyrrhiza* (L.) Schleid.; Haynes 4155  
*Spirodela punctata* (G.F.W.Mey.) C.H. Thompson; Haynes 4221  
*Wolffia brasiliensis* Weddell; Haynes 4154  
*Wolffia columbiana* Karst.; Overby 227 NLU  
*Wolffiella gladiata* (Hegelm.) Hegelm.; Haynes 4153



**LILIACEAE**

*Allium canadense* L.; DTM 3058

\**Asparagus officinalis* L.; MM s.n (questionably naturalized).

*Camassia scilloides* (Raf.) Cory; DTM 3015

*Cooperia drummondii* Herbert; MM 2914

*Erythronium albidum* Nutt.; DTM 2126

*Habranthus tubispathus* (L'Her.) Traub.; MM 262

\**Hemerocallis fulva* (L.) L.; DTM 1723 (localized and persisting)

*Hymenocallis caroliniana* (L.) Herbert; DTM 1843

*Hymenocallis lirioides* (Raf.) Shinners; DTM 853

*Hypoxis hirsuta* (L.) Coville; DTM 343 (includes *H. rigida* Chapman)

\**Narcissus pseudonarcissus* L.; Barbour 559 (localized and persisting)

*Nothoscordum bivalve* (L.) Britt.; DTM 250

\**Nothoscordum inodorum* (Aiton) Nichols; DTM 1675

\**Ornithogalum umbellatum* L.; DTM 3014

*Polygonatum biflorum* (Walt.) Ell.; DTM 674

*Schoenolirion wrightii* Sherman; MM 7291

*Stenanthium gramineum* (Ker-Gawl.) Morong; DTM 1811

*Trillium recurvatum* Beck; MM 144

*Trillium pusillum* Michx.; DTM 2185

*Uvularia sessilifolia* L.; DTM 2617

\**Zephyranthes candida* (Lindl.) Herbert; Barbour 467

*Zigadenus nuttallii* (Gray) S. Wats.; DTM 861

**NAJADACEAE**

*Najas guadalupensis* (Spreng.) Magnus; DTM 1522

**ORCHIDACEAE**

*Corallorhiza wisteriana* Conrad; DTM 1123

*Habenaria repens* Nutt.; Raymond 1947 LSU

*Isotria verticillata* Raf.; DTM 2281

*Listera australis* Lindl.; DTM 2162

*Malaxis unifolia* Michx.; RDT 43537

*Platanthera ciliaris* (L.) Lindl.; RDT 42439

*Platanthera clavellata* (Michx.) Luer; MM 256

*Platanthera flava* (L.) Lindl.; Raymond 1483 NLU

*Platanthera lacera* (Michx.) G. Don; DTM 1759

*Spiranthes cernuus* (L.) L.C.Rich.; MM 278

*Spiranthes lacera* (Raf.) Raf.; Overby 262 NLU

*Spiranthes laciniata* (Small) Ames; DTM 2013

*Spiranthes odorata* (Nutt.) Lindl.; Haynes 5426

*Spiranthes ovalis* Lindl.; DTM 1856

*Spiranthes praecox* (Walt.) S. Wats.; DTM 2313 LSU

*Spiranthes tuberosa* Raf.; DTM 546

*Spiranthes vernalis* Engelm. & A. Gray; DTM 903

*Tipularia discolor* (Pursh) Nutt.; Givens 3557 LSU

*Triphora trianthophora* (Sw.) Rydb.; Raymond 1529 NLU

**POACEAE**

*Agrostis elliottiana* J.A. Schultes; DTM 1632

\**Agrostis gigantea* Roth; DTM 1268

*Agrostis hyemalis* (Walt.) B.S.P.; DTM 2029

*Agrostis perennans* (Walt.) Tuckerman; DTM 1416

*Agrostis stolonifera* L.; DTM 1309

\**Aira caryophyllea* L.; DTM 3059

\**Aira elegans* Willd. ex Kunth; DTM 1659

*Alopecurus carolinianus* Walt.; DTM 2603

*Andropogon gerardii* Vitman; DTM 1458

*Andropogon glomeratus* (Walt.) B.S.P.; DTM 1498

*Andropogon ternarius* Michx.; DTM 1534

*Andropogon virginicus* L.; DTM 1483

\**Anthoxanthum aristatum* Boiss.; DTM 1742

*Aristida desmantha* Trin. & Rupr.; MM 2892

*Aristida dichotoma* Michx.; DTM 2004

*Aristida lanosa* Muhl. ex Ell.; MM 2928

*Aristida longespica* Poir.; DTM 1563

*Aristida oligantha* Michx.; MM 2893

*Aristida purpurascens* Poir.; DTM 1468

*Arundinaria gigantea* (Walt.) Muhl.; DTM 2193

\**Arundo donax* L.; DTM 1569

\**Avena fatua* L.; DTM 1732

\**Avena sativa* L.; DTM 2615

*Axonopus fissifolius* (Raddi) Kuhl.; DTM 1264

\**Bothriochloa ischaemum* (L.) Keng; RDT 68561

*Bothriochloa languioides* (DC.) Herter; DTM 1382

*Bothriochloa longipaniculata* (Gould) Allred & Gould; DTM 2079

*Bothriochloa springfieldii* (Gould) Parodi; Thieret 24481 LAF

\**Briza minor* L.; DTM 1656

\**Bromus catharticus* Vahl; DTM 2298

\**Bromus diandrus* Roth; RDT 65106 LSU

\**Bromus japonicus* Thunb. ex Murr.; DTM 1321

\**Bromus lanceolatus* Roth; DTM 1770

*Bromus pubescens* Muhl. ex Willd.; DTM 1688

\**Bromus racemosus* L.; DTM 1699

\**Bromus secalinus* L.; DTM 1322

\**Bromus tectorum* L.; DTM 2192

*Buchloe dactyloides* (Nutt.) Engelm.; Snyder s.n.US

*Cenchrus spinifex* Cav.; MM 2813

*Chasmanthium latifolium* (Michx.) Yates; DTM 1735

*Chasmanthium laxum* (L.) Yates; DTM 1384

*Chasmanthium sessiliflorum* (Poir.) Yates; DTM 2557

*Chloris virgata* Sw.; DTM 1320

\**Cynodon dactylon* (L.) Pers.; Haynes 4237

\**Cynosurus echinatus* L.; DTM 1773

\**Dactylis glomerata* L.; DTM 1816

\**Dactyloctenium aegyptium* (L.) Willd.; Overby 121 NLU  
*Danthonia spicata* (L.) Beauv. ex Roemer & J.A. Schultes; DTM 1655

*Dichanthelium aciculare* (Desv. ex Poir.) Gould & C.A. Clark; DTM 1671

*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark; DTM 1210.

*Dichanthelium boscii* (Poir.) Gould and C.A. Clark; DTM 1408

*Dichanthelium commutatum* (J.A. Schultes) Gould; DTM 1241



- Dichanthelium depauperatum* (Muhl.) Gould; Lewis 3490 NLU
- Dichanthelium dichotomum* (L.) Gould; DTM 1182
- Dichanthelium laxiflorum* (Lam.) Gould; DTM 1239
- Dichanthelium linearifolium* (Scribn.ex Nash) Gould; Allen 5062 LAF
- Dichanthelium oligosanthes* (J.A. Schultes) Gould; MM 2617
- Dichanthelium ovale* (Ell.) Gould & C.A. Clark; Lewis 3585 NLU
- Dichanthelium polyanthes* Schult.; MM 6491
- Dichanthelium ravenelii* (Scribn. & Merr.) Gould; DTM 1375
- Dichanthelium scoparium* (Lam.) Gould; DTM 1403
- Dichanthelium sphaerocarpon* (Ell.) Gould; DTM 1274
- Digitaria ciliaris* (Retz.) Koel.; DTM 1414
- Digitaria cognata* (J.A. Schultes) Pilger; DTM 1527
- Digitaria filiformis* (L.) Koel.; DTM 1544
- \**Digitaria ischaemum* (Schreb.) Schreb.ex Muhl.; DTM 1518
- \**Digitaria violascens* Link; DTM 1379
- \**Echinochloa colona* (L.) Link; DTM 1231
- \**Echinochloa crus-galli* (L.) Beauv.; Brooks 277 LSU
- Echinochloa muricata* (Beauv.) Fern.; MM 6854
- Echinochloa walteri* (Pursh) Heller; DTM 2553
- \**Eleusine indica* (L.) Gaertn.; DTM 1596
- Elymus virginicus* L.; DTM 2999
- \**Eragrostis cilianensis* (All.) Vign.ex Janchen.; DTM 1420
- \**Eragrostis curvula* (Schrud.) Nees; DTM 2312
- Eragrostis hirsuta* (Michx.) Nees; MM 2927
- Eragrostis hypnoides* (Lam.) B.S.P.; DTM 1479
- \**Eragrostis japonica* (Thunb.) Trin.; DTM 2706
- Eragrostis lugens* Nees; DTM 1643
- \**Eragrostis minor* Host; DTM 1377
- \**Eragrostis pilosa* (L.) Beauv.; DTM 1510
- Eragrostis refracta* (Muhl.) Scribn.; DTM 1997
- Eragrostis reptans* (Michx.) Nees; DTM 1986
- Eragrostis secundiflora* J.Presl; DTM 1803
- Eragrostis spectabilis* (Pursh) Steud.; MM 2917
- Eragrostis trichodes* (Nutt.) Wood; MM 2918
- \**Eremochloa ophiuroides* (Monro) Hack.; DTM 1363
- Eriochloa acuminata* (J. Presl) Kunth; DTM 1971
- Eriochloa contracta* A.S. Hitchc.; DTM 1481
- Festuca paradoxa* Desv.; DTM 1277
- Glyceria arkansana* Fern.; DTM 2327
- Gymnopogon ambiguus* (Michx.) B.S.P.; DTM 1489
- \**Holcus lanatus* L.; DTM 1346
- Hordeum pusillum* Nutt.; DTM 1621
- Leersia lenticularis* Michx.; Haynes 5422
- Leersia oryzoides* (L.) Sw.; DTM 1488
- Leersia virginica* Willd.; DTM 1359
- Leptochloa fusca* (L.) Kunth; DTM 1325
- Leptochloa panicea* (Retz.) Ohwi; MM 6767
- Leptochloa panicoides* (J. Presl) A.S. Hitchc.; DTM 1985
- \**Lolium arundinaceum* (Schreb.) S.J. Derbyshire; DTM 1391
- \**Lolium perenne* L.; DTM 1187
- \**Lolium temulentum* L.; DTM 1673
- Luziola fluitans* (Michx.) Terrell & Robins.; DTM 1549
- Melica mutica* Walt.; DTM 1614
- Muhlenbergia schreberi* J.F. Gmel.; DTM 1424
- Nassella leucotricha* (Trin. & Rupr.) Pohl; DTM 3050
- Oplismenus hirtellus* (L.) Beauv.; DTM 1305
- Panicum anceps* Michx.; DTM 1335
- Panicum brachyanthum* Steud.; DTM 1998
- Panicum capillare* L.; DTM 1511
- Panicum dichotomiflorum* Michx.; DTM 1386
- Panicum flexile* (Gattinger) Scribn.; Correll & Correll 10097 LSU
- Panicum gymnocarpon* Ell.; Haynes 5425
- Panicum hemitomom* J.A. Schultes; RDT 140681
- Panicum rigidulum* Bosc.ex Nees; DTM 1395
- Panicum verrucosum* Muhl.; DTM 1529
- Panicum virgatum* L.; DTM 1413
- \**Paspalum dilatatum* Poir.; DTM 1191
- Paspalum dissectum* (L.) L.; Haynes 4089
- Paspalum distichum* L.; DTM 1970
- Paspalum floridanum* Michx.; DTM 1389
- Paspalum laeve* Michx.; DTM 1374
- Paspalum langei* (Fourn.) Nash; DTM 1366
- \**Paspalum notatum* Fluegge; DTM 1262
- Paspalum plicatulum* Michx.; DTM 1249
- Paspalum pubiflorum* Rupr.ex Fourn.; DTM 1586
- Paspalum repens* Berg.; RDT 32947
- Paspalum setaceum* Michx.; DTM 1422
- \**Paspalum urvillei* Steud.; DTM 1240
- Phalaris caroliniana* Walt.; DTM 2628
- \**Phleum pratense* L.; RDT 65054
- \**Phyllostachys aurea* Carr ex A. Riv. & C. Riv.; MM 7244
- Piptochaetium avenaceum* (L.) Parodi; DTM 2297
- \**Poa annua* L.; DTM 1177
- Poa autumnalis* Muhl.ex Ell.; DTM 2186
- Poa pratensis* L.; Thieret 22666 LAF
- \**Polypogon monspeliensis* (L.) Desf.; RDT 66455 LSU
- Saccharum alopecuroidum* (L.) Nutt.; MM 2959
- Saccharum baldwinii* Spreng.; RDT 37271
- Saccharum brevibarbe* (Michx.) Pers.; DTM 1469
- Saccharum giganteum* (Walt.) Pers.; DTM 1536
- Sacciolepis striata* (L.) Nash; DTM 1431
- Schedonnardus paniculatus* (Nutt.) Trel.; DTM 2627
- Schizachyrium scoparium* (Michx.) Nash; DTM 1533
- \**Secale cereale* L.; DTM 2232
- \**Setaria faberi* Herrm.; RDT 119026
- Setaria parviflora* (Poir.) Kerguelen; MM 2055
- \**Setaria pumila* (Poir.) Roemer & J.A. Schultes; DTM 1573
- \**Setaria viridis* (L.) Beauv.; RDT 45434
- Sorghastrum elliottii* (Mohr) Nash; MM 2931
- Sorghastrum nutans* (L.) Nash; DTM 2005
- \**Sorghum bicolor* (L.) Moench; DTM 1411
- \**Sorghum halepense* (L.) Pers.; Haynes 4228
- Sphenopholis intermedia* (Rydb.) Rydb.; RDT 88229
- Sphenopholis nitida* (Biehler) Scribn.; DTM 1626



*Sphenopholis obtusata* (Michx.) Scribn.; DTM 2632  
*Sporobolus clandestinus* (Biehler) A.S. Hitchc.; RDT 37044  
*Sporobolus compositus* (Poir) Merr.; DTM 1579  
*Sporobolus cryptandrus* (Torr.) A. Gray; DTM 1578  
*Sporobolus indicus* (L.) R.Br.; DTM 1922  
*Sporobolus junceus* (Beauv.) Kunth; DTM 1515  
*Sporobolus pyramidatus* (Lam.) Hitchc.; MM 7277  
*Sporobolus vaginiflorus* (Torr. ex Gray) Wood; RDT 37396  
 LSU  
*Steinchisma hians* (Ell.) Nash; DTM 1745  
*Stenotaphrum secundatum* (Walt.) Kuntze; DTM 1308  
*Tridens ambiguus* (Ell.) J.A. Schultes; DTM 1473  
*Tridens flavus* (L.) A.S. Hitchc.; MM 2915 (includes *Tridens chapmanii* (Small) Chase)  
*Tridens strictus* (Nutt.) Nash; Raymond 1136 LSUS  
*Triplasis purpurea* (Walt.) Chapman; MM 2932  
*Tripsacum dactyloides* (L.) L.; DTM 1365  
*Trisetum interruptum* Buckl.; Allen 3774 NLU  
 \**Triticum aestivum* L.; DTM 2645  
*Urochloa platyphylla* (Monro ex Wright) R.Webster; DTM 1378  
 \**Urochloa ramosa* (L.) Nguyen; DTM 1362  
*Urochloa texana* (Buckl.) R.Webster; Kalmback-Burkett Co. s.n. LSU  
 \**Vulpia bromoides* (L.) S.F. Gray; DTM 1228  
 \**Vulpia myuros* (L.) K.C. Gmel.; DTM 1650  
*Vulpia octoflora* (Walt.) Rydb.; DTM 2226  
*Vulpia sciurea* (Nutt.) Henr.; MM 2537  
*Zizaniopsis miliacea* (Michx.) Doell. & Aschers.; DTM 1158

#### PONTEDERIACEAE

\**Eichhornia crassipes* (Mart.) Solms; DTM 240  
*Pontederia cordata* L.; DTM 88

#### POTAMOGETONACEAE

*Potamogeton nodosus* Poir.; Barbour 519  
*Potamogeton pusillus* L.; DTM 1521

#### SMILACACEAE

*Smilax bona-nox* L.; DTM 970  
*Smilax glauca* Walt.; DTM 119  
*Smilax laurifolia* L.; Gebelein 25 LSUS  
*Smilax rotundifolia* L.; DTM 959  
*Smilax smallii* Morong; RDT 155720  
*Smilax tamnoides* L.; RDT 32815

#### SPARAGANIACEAE

*Sparganium americanum* Nutt.; DTM 1830

#### TYPHACEAE

*Typha domingensis* Pers.; DTM 1758  
*Typha latifolia* L.; DTM 1299

#### XYRIDACEAE

*Xyris caroliniana* Walt.; Barbour 1099  
*Xyris jupicai* L.C. Rich.; MM 263

## DICOTYLEDONS

### ACANTHACEAE

*Dicliptera brachiata* (Pursh) Spreng.; DTM 227  
*Justicia ovata* (Walt.) Lindau; DTM 688  
 \**Ruellia brittoniana* Leonard; RDT 42038  
*Ruellia caroliniensis* (J.F. Gmel.) Steud.; DTM 64  
*Ruellia humilis* Nutt.; DTM 87  
*Ruellia pedunculata* Torr. ex Gray; DTM 447

### ACERACEAE

*Acer barbatum* Michx.; RDT 166956  
*Acer negundo* L.; Haynes 4146  
*Acer rubrum* L.; Haynes 4583  
*Acer saccharinum* L.; Clark 2 LSU  
*Acer saccharum* Marsh.; Graham 417 LSUS

### AIZOACEAE

*Sesuvium maritimum* (Walt.) B.S.P.; Thieret 26136 LAF  
*Trianthema portulacastrum* L.; DTM 174

### AMARANTHACEAE

\**Alternanthera philoxeroides* (Mart.) Griseb.; DTM 84  
*Amaranthus albus* L.; RDT 66465 LSU  
*Amaranthus arenicola* I.M. Johnston; RDT 59959  
*Amaranthus hybridus* L.; DTM 1967  
*Amaranthus palmeri* S.Wats.; DTM 1964  
 \**Amaranthus retroflexus* L.; RDT 76695  
*Amaranthus rudis* Sauer; DTM 1965  
*Amaranthus spinosus* L.; DTM 924  
*Amaranthus viridis* L.; MM 6978  
*Froelichia floridana* (Nutt.) Moq.; DTM 1793  
*Froelichia gracilis* (Hook.) Moq.; RDT 76696

### ANACARDIACEAE

*Rhus aromatica* Aiton; DTM 2181  
*Rhus copallinum* L.; DTM 1924  
*Rhus glabra* L.; RDT 33565  
*Toxicodendron radicans* (L.) Kuntze; Haynes 4140

### ANNONACEAE

*Asimina parviflora* (Michx.) Dunal; RDT 80926  
*Asimina triloba* (L.) Dunal; Hardy 8685

### APIACEAE

*Ammoselinum butleri* (Enelm. ex S.Wats.) Coult. & Rose; RDT 88289  
*Bowelsia incana* Ruiz & Pavon; RDT 127180  
 \**Bupleurum rotundifolium* L.; RDT 76689  
*Chaerophyllum tainturieri* Hook.; DTM 287  
 \**Ciclospermum leptophyllum* (Pers.) Sprague ex Britt. & Wilson; Haynes 5777  
*Cicuta maculata* L.; Graham 575 LSUS  
 \**Conium maculatum* L.; DTM 1009  
*Cryptotaenia canadensis* (L.) DC.; RDT 25312  
*Cynoscadium digitatum* DC.; DTM 1190  
 \**Daucus carota* L.; DTM 649  
*Daucus pusillus* Michx.; MM 2653  
*Eryngium hookeri* Walp.; DTM 143  
*Eryngium prostratum* Nutt. ex DC.; Haynes 4109



*Eryngium yuccifolium* Michx.; DTM 142  
 \**Falcaria vulgaris* Bernh.; RDT 88299  
*Hydrocotyle ranunculoides* L.f.; DTM 1097  
*Hydrocotyle umbellata* L.; DTM 1787  
*Hydrocotyle verticillata* Thunb.; DTM 75  
*Limnoscadium pinnatum* (DC.) Mathias & Constance; DTM 478  
*Oxypolis rigidior* (L.) Raf.; RDT 80922  
*Polytaenia nuttallii* DC.; DTM 549  
*Ptilimnium capillaceum* (Michx.) Raf.; DTM 1022  
*Ptilimnium costatum* (Ell.) Raf.; RDT 128660  
*Ptilimnium nuttallii* (DC.) Britt.; Raymond 770 LSUS  
*Sanicula canadensis* L.; DTM 1040  
*Sanicula odorata* (Raf.) K.M. Pryer & L.R. Phillippe; RDT 33075  
*Sanicula smallii* Bickn.; RDT 170095  
*Spermolepis divaricata* (Walt.) Raf. ex Ser.; DTM 2285  
*Spermolepis echinata* (Nutt. ex DC.) Heller; Allen 7999 LAF  
*Spermolepis inermis* (Nutt. ex DC.) Mathias & Constance; RDT 45421  
*Taenidia integerrima* (L.) Drude; Cocks s.n. NO  
 \**Torilis arvensis* (Huds.) Link; DTM 29  
 \**Torilis nodosa* (L.) Gaertn.; DTM 1033  
 \**Trepocarpus aethusae* Nutt. ex DC.; DTM 464  
*Zizia aurea* (L.) W.D.J. Koch; Raymond 732 LSUS

## APOCYNACEAE

*Amsonia tabernaemontana* Walt.; DTM 838  
*Apocynum cannabinum* L.; MM 6969  
*Trachelosperma difforme* (Walt.) A. Gray; DTM 454  
 \**Vinca major* L.; Barbour 290  
 \**Vinca minor* L.; RDT 33687

## AQUIFOLIACEAE

*Ilex ambigua* (Michx.) Torr.; RDT 140651 LSU  
*Ilex decidua* Walt.; Haynes 4093  
*Ilex opaca* Aiton; Hardy 8616  
*Ilex vomitoria* Aiton; DTM 1151

## ARALIACEAE

*Aralia spinosa* L.; DTM 1154

## ARISTOLOCHACEAE

*Aristolochia reticulata* Jacq.; RDT 80871  
*Aristolochia serpentaria* L.; RDT 119103  
*Aristolochia tomentosa* Sims; RDT 36969

## ASCLEPIADACEAE

*Asclepias amplexicaulis* Sm.; DTM 2294  
*Asclepias perennis* Walt.; DTM 523  
*Asclepias tuberosa* L.; DTM 463  
*Asclepias variegata* L.; DTM 881  
*Asclepias verticillata* L.; DTM 73  
*Asclepias viridiflora* Raf.; DTM 556  
*Asclepias viridis* Walt.; DTM 62  
*Cynanchum laeve* (Michx.) Pers.; Hardy 6382  
*Matelea cynanchoides* (Engelm.) Woods.; MM 2613

*Matelea decipiens* (Alexander) Woods.; RDT 51975  
*Matelea gonocarpus* (Walt.) Shinnars; RDT 36994

## ASTERACEAE

*Achillea millefolium* L.; DTM 329  
*Acmella oppositifolia* (Lam.) R.K. Jansen; DTM 442  
*Ageratina altissima* (L.) King & H.E. Robins.; DTM 693  
*Ambrosia artemisiifolia* L.; DTM 925  
*Ambrosia psilostachya* DC.; MM 7000  
*Ambrosia trifida* L.; DTM 2711  
*Antennaria parlinii* Fern.; Haynes 4582  
 \**Anthemis cotula* L.; DTM 519  
*Aphanostephus skirrhobasis* (DC.) Trel.; DTM 1771  
*Arnoglossum plantagineum* Raf.; DTM 407  
*Baccharis halimifolia* L.; Hardy 6871  
*Berlandiera betonicifolia* (Hook.) Small; DTM 1074  
*Berlandiera pumila* (Michx.) Nutt.; DTM 997  
*Bidens aristosa* (Michx.) Britt.; DTM 1993  
*Bidens bipinnata* L.; Haynes 5419  
*Bidens discoidea* (Torr. & A. Gray) Britt.; DTM 1547  
*Bidens frondosa* L.; DTM 2024  
*Bidens laevis* (L.) B.S.P.; DTM 1786  
*Boltonia diffusa* Ell.; DTM 718  
 \**Calypocarpus vialis* Less.; DTM 1860  
 \**Carduus nutans* L.; DTM 460  
*Chrysopsis pilosa* Nutt.; MM 2720  
 \**Cichorium intybus* L.; MM 223  
*Cirsium altissimum* (L.) Spreng.; DTM 543  
*Cirsium carolinianum* (Walt.) Fern. & Schub.; DTM 840  
*Cirsium engelmannii* Rydb.; DTM 1966 LSU  
*Cirsium horridulum* Michx.; DTM 555  
*Conoclinium coelestinum* (L.) DC.; DTM 639  
 \**Conyza bonariensis* (L.) Cronq.; Thieret 32159 LAF  
*Conyza canadensis* (L.) Cronq.; DTM 589  
*Coreopsis grandiflora* Hogg ex Sweet; DTM 434  
*Coreopsis intermedia* Sherff; MM 2605  
*Coreopsis lanceolata* L.; DTM 297  
*Coreopsis tinctoria* Nutt.; Raymond 768 LSUS  
 \**Crepis pulchra* L.; DTM 842  
*Croptilon divaricatum* (Nutt.) Raf.; DTM 592  
*Doellingeria sericocarpoides* Small; DTM 1947  
*Dracopis amplexicaulis* (Vahl) Cass.; DTM 60  
*Echinacea pallida* (Nutt.) Nutt.; DTM 491 (includes *E. angustifolia* DC. and *E. sanguinea* Nutt.)  
*Echinacea purpurea* (L.) Moench; RDT 136864  
*Eclipta prostrata* (L.) L.; DTM 247  
*Elephantopus carolinianus* Raeusch.; DTM 8  
*Elephantopus nudatus* Gray; RDT 155792  
*Elephantopus tomentosus* L.; DTM 241  
*Erechtites hieracifolia* (L.) Raf. ex DC.; DTM 1524  
*Erigeron annuus* (L.) Pers.; DTM 1988  
*Erigeron philadelphicus* L.; DTM 45  
*Erigeron pulchellus* Michx.; Raymond 750 LSUS  
*Erigeron strigosus* Muhl. ex Willd.; DTM 52  
*Erigeron tenuis* Torr. & A. Gray; DTM 360  
*Eupatorium capillifolium* (Lam.) Small; DTM 2007



- Eupatorium compositifolium* Walt.; DTM 2052  
*Eupatorium perfoliatum* L.; DTM 206  
*Eupatorium rotundifolium* L.; DTM 626  
*Eupatorium semiserratum* DC.; DTM 623 (includes *E. glaucescens* Ell.)  
*Eupatorium serotinum* Michx.; DTM 172  
*Eurybia hemispherica* (Alexander) Nesom; DTM 705  
*Euthamia leptcephala* (Torr. & A. Gray) Greene; DTM 248  
*Evax candida* (Torr. & A. Gray) A. Gray; RDT 99491 LSU  
*\*Facelis retusa* (Lam.) Schultz-Bip.; DTM 885  
*Fleischmannia incarnata* (Walt.) King & H.E. Robins; RDT 33060  
*Gaillardia aestivalis* (Walt.) H. Rock; DTM 1800  
*Gaillardia pulchella* Foug.; DTM 660  
*Gamochaeta antillana* (Urb.) Anderb.; DTM 400  
*Gamochaeta argyrinea* Nesom; Strout 112 LSUS  
*Gamochaeta pensylvanica* (Willd.) Cabrera; DTM 1751  
*Gamochaeta purpurea* (L.) Cabrera; DTM 373  
*Helenium amarum* (Raf.) H. Rock; DTM 24  
*Helenium flexuosum* Raf.; DTM 27  
*Helianthus angustifolius* L.; DTM 178  
*Helianthus annuus* L.; Barbour 490  
*Helianthus divaricatus* L.; DTM 1894  
*Helianthus grosseserratus* Martens; DTM 1756  
*Helianthus hirsutus* Raf.; DTM 231  
*Helianthus mollis* Lam.; RDT 36295  
*Helianthus occidentalis* Riddell; Cocks s.n. NO  
*Helianthus petiolaris* Nutt.; Cocks s.n. NO  
*Helianthus strumosus* L.; DTM 63  
*Heterotheca subaxillaris* (Lam.) Britt. & Rusby; MM 2777  
*Hieracium gronovii* L.; DTM 390  
*Hymenopappus artemisiifolius* DC.; Barbour 1193  
*Hymenopappus scabiosaeus* L'Her.; DTM 17  
*\*Hypochaeris glabra* L.; DTM 2830  
*Iva angustifolia* Nutt. ex DC.; DTM 2077  
*Iva annua* L.; DTM 2025  
*Krigia caespitosa* (Raf.) Chambers; DTM 38  
*Krigia dandelion* (L.) Nutt.; Raymond 731 LSUS  
*Krigia occidentalis* Nutt.; DTM 317  
*Krigia virginica* (L.) Willd.; DTM 1813  
*Lactuca canadensis* L.; DTM 146  
*Lactuca floridana* (L.) Gaertn.; DTM 651  
*Lactuca ludoviciana* (Nutt.) Riddell; RDT 36155  
*\*Lactuca serriola* L.; DTM 450  
*\*Leucanthemum vulgare* Lam.; DTM 1019 (questionably naturalized)  
*Liatris aspera* Michx.; DTM 576  
*Liatris elegans* (Walt.) Michx.; DTM 204  
*Liatris pycnostachya* Michx.; DTM 517  
*Liatris squarrosa* (L.) Michx.; DTM 542  
*Liatris tenuis* Shinnery; RDT 37304  
*Marshallia caespitosa* Nutt. ex DC.; DTM 351  
*Mikania scandens* (L.) Willd.; DTM 209  
*Oligoneuron nitida* (Torr. & A. Gray) Small; DTM 159  
*Oligoneuron rigidum* (L.) Small; RDT 93593  
*Packera glabella* (Poir.) C. Jeffrey; DTM 41  
*Packera obovata* (Muhl. ex Willd.) W.A. Weber & A. Love; Barbour 1062  
*\*Parthenium hysterophorus* L.; DTM 1999  
*Parthenium integrifolium* L.; DTM 13  
*Pityopsis graminifolia* (Michx.) Nutt.; MM 906  
*Pluchea camphorata* (L.) DC.; DTM 698  
*Pluchea foetida* (L.) DC.; MM 284  
*Pluchea odorata* (L.) Cass.; MM 277  
*Pseudognaphalium helleri* (Britt.) A. Anderb.; RDT 41805  
*Pseudognaphalium obtusifolium* (L.) Hilliard & Burt; DTM 595  
*Pyrrhopappus carolinianus* (Walt.) DC.; DTM 552  
*Pyrrhopappus pauciflorus* (D. Don) DC.; DTM 499  
*Ratibida pinnata* (Vent.) Barnh.; DTM 94  
*Rudbeckia grandiflora* (D. Don) J.F. Gmel. ex DC.; DTM 914  
*Rudbeckia hirta* L.; DTM 103  
*Rudbeckia maxima* Nutt.; DTM 95  
*\*Senecio vulgaris* L.; MM 5945  
*Silphium integrifolium* Michx.; DTM 2326  
*Silphium laciniatum* L.; MM 2054  
*\*Silybum marianum* (L.) Gaertn.; RDT 34559  
*Smallanthus uvedalia* (L.) Mackenzie ex Small; DTM 1088  
*Solidago altissima* L.; DTM 627  
*Solidago auriculata* Shuttlew. ex Blake; DTM 1916  
*Solidago ludoviciana* (Gray) Small; MM 2889  
*Solidago odora* Aiton; DTM 679  
*Solidago petiolaris* Aiton; DTM 1961  
*Solidago radula* Nutt.; Haynes 4081  
*Solidago rugosa* P. Mill; DTM 686  
*Solidago ulmifolia* Muhl. ex Willd.; DTM 670  
*\*Soliva sessilis* Ruiz & Pavon; DTM 1014  
*\*Sonchus asper* (L.) Hill; DTM 424  
*\*Sonchus oleraceus* L.; DTM 896  
*Symphotrichum divaricatum* (Nutt.) Nesom; Haynes 4261  
*Symphotrichum drummondii* (Lindl.) Nesom; DTM 2566  
*Symphotrichum dumosum* (L.) Nesom; MM 6957  
*Symphotrichum laeve* (L.) A. & D. Love; DTM 744  
*Symphotrichum lanceolatum* (Willd.) Nesom; DTM 2586  
*Symphotrichum lateriflorum* (L.) A. & D. Love; DTM 2057  
*Symphotrichum ontarionis* (Wieg.) Nesom; RDT 69310  
*Symphotrichum oolentangiense* (Riddell) Nesom; DTM 570  
*Symphotrichum patens* (Aiton) Nesom; MM 6200  
*Symphotrichum pilosum* (Willd.) Nesom; DTM 2569  
*Symphotrichum praealtum* (Poir.) Nesom; DTM 700  
*Symphotrichum pratense* (Raf.) Nesom; DTM 2080  
*Symphotrichum racemosum* (Ell.) Nesom; MM 6999  
*Symphotrichum subulatum* (Michx.) Nesom; Hardy 5297  
*\*Taraxacum officinale* G.H. Weber ex Wiggers; DTM 283



*Tetragonotheca ludoviciana* (Torr. & A. Gray) A. Gray ex Hall; MM 2743  
*Thelesperma filifolium* (Hook.) A. Gray; RDT 88997 LSU  
*Verbesina helianthoides* Michx.; DTM 455  
*Verbesina virginica* L.; Barbour 971  
*Vernonia baldwinii* Torr.; MM 6798  
*Vernonia missurica* Raf.; Raymond 773 LSUS  
*Vernonia texana* (Gray) Small; DTM 126  
*Xanthium strumarium* L.; DTM 1095  
\**Youngia japonica* (L.) DC.; DTM 3012

**BALSAMINACEAE**

*Impatiens capensis* Meerb.; DTM 1094

**BERBERIDACEAE**

\**Nandina domestica* Thunb.; MM 6465 (questionably naturalized)  
*Podophyllum peltatum* L.; DTM 47

**BETULACEAE**

*Alnus serrulata* (Aiton) Willd.; DTM 2228  
*Betula nigra* L.; Hardy 8614  
*Carpinus caroliniana* Walt.; Haynes 5316  
*Ostrya virginiana* (P. Mill) K. Koch; Haynes 4569

**BIGNONIACEAE**

*Bignonia capreolata* L.; DTM 803  
*Campsis radicans* (L.) Seem. ex Bureau; DTM 137  
*Catalpa bignonioides* Walt.; Barbour 82  
*Catalpa speciosa* (Warder) Warder ex Engelm.; Frank 134 LSUS

**BORAGINACEAE**

\**Buglossoides arvensis* (L.) I.M. Johnston; DTM 1071  
*Heliotropium curassavicum* L.; Thieret 21132 LAF  
*Heliotropium indicum* L.; DTM 175  
*Heliotropium procumbens* P.Mill; DTM 624  
*Lithospermum caroliniense* (Walt. ex J.F. Gmel.) MacM.; MM 2534  
*Myosotis macrosperma* Engelm.; MM 6155 (includes *Myosotis verna* Nutt.)  
*Onosmodium bejariense* DC. ex A. DC.; Cocks s.n. NO

**BRASSICACEAE**

\**Arabidopsis thaliana* (L.) Heynh.; RDT 70506  
\**Camelina microcarpa* DC.; RDT 65101 LSU  
\**Capsella bursa-pastoris* (L.) Medik.; DTM 256  
*Cardamine bulbosa* (Schreb. ex Muhl.) B.S.P.; MM 6205  
*Cardamine concatenata* (Michx.) Sw.; MM 143  
\**Cardamine hirsuta* L.; DTM 261  
*Cardamine parviflora* L.; Barbour 1133  
*Cardamine pensylvanica* Muhl. ex Willd.; DTM 1130  
\**Coronopus didymus* (L.) Sm.; DTM 852  
\**Descurainia sophia* (L.) Webb. ex Prantl; RDT 65110  
*Draba brachycarpa* Nutt. ex Torr. & A. Gray; DTM 2587  
*Draba cuneifolia* Nutt. ex Torr. & A. Gray; DTM 943  
*Lepidium densiflorum* Schrad.; RDT 65049 LSU  
*Lepidium virginicum* L.; Raymond 757 LSUS  
\**Rapistrum rugosum* (L.) All.; DTM 2644  
\**Rorippa nasturtium-aquaticum* (L.) Hayek; DTM 2204

*Rorippa palustris* (L.) Bess.; DTM 975  
*Rorippa sessiliflora* (Nutt.) A.S. Hitch.; Barbour 970  
*Sibara virginica* (L.) Rollins; Barbour 536  
\**Sinapis arvensis* L.; DTM 275  
\**Sisymbrium altissimum* L.; RDT 88306  
\**Sisymbrium officinale* (L.) Scop.; RDT 83089  
*Streptanthus hyacinthoides* Hook.; MM 2656  
\**Thlaspi arvense* L.; Barbour 1003

**BUDDLEJACEAE**

*Polypremum procumbens* L.; DTM 154

**CABOMBACEAE**

*Cabomba caroliniana* Gray; DTM 1721

**CACTACEAE**

*Opuntia humifusa* (Raf.) Raf.; MM 239

**CALLITRICHACEAE**

*Callitriche heterophylla* Pursh; Haynes 4577  
*Callitriche terrestris* Raf.; DTM 1125

**CAMPANULACEAE**

*Lobelia appendiculata* A. DC.; DTM 732  
*Lobelia cardinalis* L.; DTM 2037  
*Lobelia puberula* Michx.; DTM 225  
*Triodanis biflora* (Ruiz & Pavon) Greene; DTM 387  
*Triodanis perfoliata* (L.) Nieuwl.; DTM 995

**CAPPARACEAE**

\**Cleome hassleriana* Chod.; Haynes 5938  
*Polanisia dodecandra* (L.) DC.; RDT 64990

**CAPRIFOLIACEAE**

\**Lonicera japonica* Thunb.; DTM 120  
*Lonicera sempervirens* L.; DTM 402  
*Sambucus nigra* L.; DTM 1284  
*Symphoricarpos orbiculatus* Moench; Raymond 865 LSUS  
*Triosteum angustifolium* L.; DTM 2287  
*Viburnum nudum* L.; DTM 2286  
*Viburnum prunifolium* L.; RDT 25303  
*Viburnum rufidulum* Raf.; MM 2823

**CARYOPHYLLACEAE**

*Arenaria benthamii* Fenzl ex Torr. & A. Gray; RDT 65108 LSU  
*Arenaria lanuginosa* (Michx.) Rohrb.; DTM 1760  
\**Arenaria serpyllifolia* L.; MM 2611  
*Cerastium brachypodum* (Engelm. ex A. Gray) B.L. Robins.; DTM 2136  
\**Cerastium fontanum* Baumg.; Strout 122 LSUS  
\**Cerastium glomeratum* Thuill.; DTM 937  
*Geocarpon minimum* Mackenzie; MM 7284  
*Loeflingia squarrosa* Nutt.; Reid 4855 LSU  
*Minuartia drummondii* (Shinners) McNeill; MM 7308  
*Minuartia muscorum* (Fassett) Rabeler; MM 7309  
*Paronychia drummondii* Torr. & A. Gray; DTM 2448  
*Paronychia fastigiata* (Raf.) Fern.; Correll & Correll 10096 LSU  
*Sagina decumbens* (Eil.) Torr. & A. Gray; DTM 2723



\**Saponaria officinalis* L.; MM 237  
 \**Scleranthus annuus* L.; RDT 82790 LSU  
*Silene antirrhina* L.; DTM 831  
 \**Silene gallica* L.; DTM 367  
 \**Silene noctiflora* L.; RDT 65030  
*Silene stellata* (L.) Aiton f.; DTM 2302  
 \**Stellaria media* (L.) Vill.; Barbour 33  
 \**Vaccaria hispanica* (P. Mill.) Rauschert; RDT 65131 LSU

**CELASTRACEAE**

*Evonymus americana* L.; Hardy 8615

**CERATOPHYLLACEAE**

*Ceratophyllum demersum* L.; DTM 1554

**CHENOPODIACEAE**

\**Bassia scoparia* (L.) A.J. Scott; RDT 65018  
 \**Chenopodium album* L.; RDT 66459  
 \**Chenopodium ambrosoides* L.; DTM 1841  
*Chenopodium berlandieri* Moq.; RDT 66452  
 \**Chenopodium murale* L.; DTM 931  
*Chenopodium pratericola* Rydb.; RDT 65055  
*Chenopodium simplex* (Torr.) Raf.; DTM 935  
*Chenopodium standleyanum* Aellen; Overby 94 NLU  
*Cycloloma atriplicifolium* (Spreng.) Coult.; Lewis 3663 NLU  
*Monolepis nuttalliana* (J.A. Schultes) Greene; DTM 2196  
 \**Salsola tragus* L.; RDT 65028 LSU

**CISTACEAE**

*Helianthemum carolinianum* (Walt.) Michx.; DTM 1616  
*Helianthemum georgianum* Chapman; MM 2745  
*Helianthemum rosmarinifolium* Pursh; DTM 1744  
*Lechea mucronata* Raf.; MM 2715  
*Lechea tenuifolia* Michx.; DTM 1785

**CLUSIACEAE**

*Hypericum crux-andreae* (L.) Crantz; DTM 586  
*Hypericum densiflorum* Pursh; RDT 65084 LSU  
*Hypericum drummondii* (Grev. & Hook.) Torr. & A. Gray; DTM 149  
*Hypericum frondosum* Michx.; DTM 1257  
*Hypericum gentianoides* (L.) B.S.P.; Allen 8539 LAF  
*Hypericum gymnanthum* Engelm. & A. Gray; RDT 165816  
*Hypericum hypericoides* (L.) Crantz; DTM 166  
*Hypericum mutilum* L.; Haynes 5317  
*Hypericum nudiflorum* Michx. ex Willd.; Raymond 1291 LSU  
*Hypericum prolificum* L.; RDT 42445 LSU  
*Hypericum pseudomaculatum* Bush; DTM 453  
*Hypericum punctatum* Lam.; DTM 1066  
*Triadenum walteri* (J.G. Gmel.) Gleason; RDT 36265

**CONVOLVULACEAE**

\**Convolvulus arvensis* L.; DTM 163  
*Dichondra caroliniensis* Michx.; DTM 308  
*Evolvulus sericeus* Sw.; MM 3355 LSU  
*Ipomoea cordatotriloba* Dennst.; DTM 696  
*Ipomoea hederacea* Jacq.; DTM 1920

*Ipomoea lacunosa* L.; DTM 667  
*Ipomoea panderata* (L.) G.F.W. Mey.; DTM 1805  
*Ipomoea purpurea* (L.) Roth; MM 125  
*Ipomoea quamoclit* L.; RDT 42043  
 \**Ipomoea wrightii* Gray; DTM 2693  
*Jacquemontia tamnifolia* (L.) Griseb.; DTM 640  
*Stylisma humistrata* (Walt.) Chapman; RDT 92409  
*Stylisma pickeringii* (Torr. ex M.A. Curtis) A. Gray; MM 2677

**CORNACEAE**

*Cornus drummondii* C.A. Mey.; Hardy 8607  
*Cornus florida* L.; Graham 571 LSUS  
*Cornus foemina* P. Mill.; RDT 167069  
*Nyssa aquatica* L.; RDT 37260  
*Nyssa sylvatica* Marsh.; DTM 1638 (includes *N. biflora* T. Walter)

**CRASSULACEAE**

*Crassula aquatica* (L.) Schoenl.; RDT 34511  
*Penthorum sedoides* L.; Raymond 683 LSUS  
*Sedum nuttallianum* Raf.; RDT 83128 NLU

**CUCURBITACEAE**

*Cayaponia quinqueloba* (Raf.) Shinnery; RDT 25353 LSU  
*Melothria pendula* L.; DTM 233

**CUSCUTACEAE**

*Cuscuta compacta* Juss. ex Choisy; DTM 1934  
*Cuscuta gronovii* Willd. ex J.A. Schultes; MM 6961  
*Cuscuta indecora* Choisy; MM 6807  
*Cuscuta pentagona* Engelm.; DTM 1788

**DROSERACEAE**

*Drosera brevifolia* Pursh; DTM 832

**EBENACEAE**

*Diospyros virginiana* L.; DTM 1176

**ELAEAGNACEAE**

\**Elaeagnus pungens* Thunb.; DTM 2054 (questionably naturalized)

**ERICACEAE**

*Lyonia mariana* (L.) D. Don; RDT 33683  
*Rhododendron canescens* (Michx.) Sweet; RDT 33665  
*Rhododendron oblongifolium* (Small) Mallais; RDT 88707  
*Rhododendron viscosum* (L.) Torr.; DTM 2278  
*Vaccinium arboreum* Marsh.; DTM 1637  
*Vaccinium corymbosum* L.; Haynes 4628 (includes *V. elliotii* Chapman, *V. fuscum* Aiton, and *V. virgatum* Aiton)  
*Vaccinium stamineum* L.; DTM 1155

**EUPHORBIACEAE**

*Acalypha gracilens* Gray; DTM 653  
*Acalypha monococca* (Engelm. & A. Gray) L. Mill & Gandhi; RDT 66478 LSU  
*Acalypha ostryifolia* Riddell; DTM 1392  
*Acalypha rhomboidea* Raf.; DTM 704  
*Acalypha setosa* A. Rich.; DTM 1092



*Acalypha virginica* L.; DTM 1371  
*Chamaesyce cordifolia* (Ell.) Small; DTM 1940  
*Chamaesyce humistrata* (Engelm.) Small; RDT 36205  
*Chamaesyce maculata* (L.) Small; DTM 1821 LSU  
*Chamaesyce nutans* (Lag.) Small; Haynes 4223  
*Chamaesyce prostrata* (Aiton) Small; DTM 1830  
*Chamaesyce serpens* (Kunth) Small; RDT 32893  
*Cnidocolus texanus* (Muell.-Arg.) Small; Haynes 5414  
*Croton argyranthemus* Michx.; RDT 81395 LSU  
*Croton capitatus* Michx.; DTM 119  
*Croton glandulosus* L.; DTM 188  
*Croton michauxii* G.L. Webster; MM 2772  
*Croton monanthogynus* Michx.; DTM 170.  
*Croton willdenowii* G.L. Webster; DTM 532  
*Euphorbia corollata* L.; DTM 71  
*Euphorbia dentata* Michx.; MM 311  
*\*Euphorbia helioscopia* L.; DTM 800  
*Euphorbia heterophylla* L.; RDT 166974  
*Euphorbia spathulata* Lam.; DTM 2272  
*Euphorbia tetraspora* Engelm.; Moore s.n. LSU  
*Phyllanthus caroliniensis* Walt.; MM 6981  
*\*Phyllanthus urinaria* L.; RDT 166975  
*\*Ricinus communis* L.; Thieret 21037 LAF (questionably naturalized)  
*Stillingia sylvatica* Garden ex L.; DTM 1719  
*Tragia betonicifolia* Nutt.; RDT 45419  
*Tragia cordata* Michx.; RDT 36187  
*Tragia urticifolia* Michx.; DTM 1345  
*\*Triadica sebiferum* (L.) Small; DTM 1757

## FABACEAE

*Acacia angustissima* (P. Mill.) Kuntze; DTM 74  
*\*Albizia julibrissin* Durazz.; DTM 1079  
*Amorpha fruticosa* L.; MM 6793  
*Amorpha paniculata* Torr. & A. Gray; MM 255  
*Amphicarpaea bracteata* (L.) Fern.; DTM 650  
*Apios americana* Medik.; DTM 203  
*Astragalus canadensis* L.; DTM 3052  
*Astragalus distortus* Torr. & A. Gray; DTM 260  
*Astragalus leptocarpus* Torr. & A. Gray; MM 2548  
*Astragalus soxmaniorum* Lundell; DTM 1806  
*Baptisia alba* (L.) Vent.; DTM 867  
*Baptisia bracteata* Muhl. ex Ell.; MM 176  
*Baptisia nuttalliana* Small; DTM 372  
*Baptisia sphaerocarpa* Nutt.; MM 192  
*Centrosema virginianum* (L.) Benth.; DTM 169  
*Cercis canadensis* L.; Barbour 538  
*Chamaecrista fasciculata* (Michx.) Greene; DTM 86  
*Chamaecrista nictitans* (L.) Moench; DTM 215  
*Clitoria mariana* L.; DTM 123  
*Crotalaria sagittalis* L.; DTM 1287  
*\*Crotalaria spectabilis* Roth; Thieret 21019 LAF  
*Dalea candida* Michx. ex Willd.; DTM 124  
*Dalea phleoides* (Torr. & A. Gray) Shinners; MM 2657  
*Dalea purpurea* Vent.; DTM 534  
*Dalea villosa* (Nutt.) Spreng.; DTM 1797

*Desmanthus illinoensis* (Michx.) MacM. ex B.L. Robins. & Fern.; DTM 1969  
*Desmodium canescens* (L.) DC.; DTM 1973  
*Desmodium ciliare* (Muhl. ex Willd.) DC.; DTM 211  
*Desmodium glabellum* (Michx.) DC.; RDT 37293  
*Desmodium laevigatum* (Nutt.) DC.; RDT 136869  
*Desmodium nudiflorum* (L.) DC.; Overby 292 NLU  
*Desmodium nuttallii* (Schindl.) Schub.; Raymond 2069 LSUS  
*Desmodium paniculatum* (L.) DC.; Raymond 782 LSUS  
*Desmodium sessilifolium* (Torr.) Torr. & A. Gray; DTM 1084  
*Desmodium viridiflorum* (L.) DC.; RDT 37297  
*Dioclea multiflora* (Torr. & A. Gray) C. Mohr; RDT 37291  
*Erythrina herbacea* L.; DTM 439  
*Galactia volubilis* (L.) Britt.; DTM 591  
*Gleditsia aquatica* Marsh.; Reid 4636 NLU  
*Gleditsia triacanthos* L.; Hardy 8612  
*Glottidium vesicarium* (Jacq.) Harper; Haynes 5328  
*\*Kummerowia striata* (Thunb.) Schindl.; DTM 1505  
*\*Lathyrus hirsutus* L.; DTM 371  
*Lathyrus pusillus* Ell.; DTM 795  
*Lathyrus venosus* Muhl. ex Willd.; DTM 2199  
*\*Lespedeza cuneata* (Dum.-Cours.) G. Don; RDT 36216  
*Lespedeza hirta* (L.) Hornem.; DTM 678  
*Lespedeza procumbens* Michx.; DTM 733  
*Lespedeza repens* (L.) W. Bart.; DTM 155  
*Lespedeza stuevei* Nutt.; MM 2812  
*Lespedeza violacea* (L.) Pers.; RDT 152260  
*Lespedeza virginica* (L.) Britt.; DTM 14  
*Lotus unifoliolatus* (Hook.) Benth.; RDT 66462 LSU  
*Lupinus texensis* Hook.; Newsom s.n. LSUS  
*\*Medicago arabica* (L.) Huds.; DTM 362  
*\*Medicago lupulina* L.; DTM 107  
*\*Medicago minima* (L.) L.; RDT 70519  
*\*Medicago polymorpha* L.; Barbour 530  
*\*Medicago sativa* L.; DTM 110  
*\*Melilotus albus* Medik.; DTM 147  
*\*Melilotus indicus* (L.) All.; DTM 331  
*\*Melilotus officinalis* (L.) Lam.; DTM 410  
*Mimosa nuttallii* (DC.) B.L. Turner; DTM 164  
*Mimosa strigillosa* Torr. & A. Gray; DTM 19  
*Neptunia lutea* (Leavenworth) Benth.; DTM 50  
*Neptunia pubescens* Benth.; Lasseigne 1002 LAF  
*Orbexilum pedunculatum* (P. Mill.) Rydb.; DTM 385  
*Orbexilum simplex* (Nutt. ex Torr. & A. Gray) Rydb.; DTM 1119  
*Parkinsonia aculeata* L.; DTM 756  
*Pediomelum digitatum* (Nutt. ex Torr. & A. Gray) Isely; MM 235  
*Pediomelum hypogaeum* (Nutt. ex Torr. & A. Gray) Rydb.; MM 2549  
*Prosopis glandulosa* Torr.; Cocks s.n. NO  
*\*Pueraria montana* (Lour.) Merr.; Hardy 8896  
*Rhynchosia latifolia* Nutt. ex Torr. & A. Gray; DTM 520  
*Rhynchosia minima* (L.) DC.; MM 6991  
*Rhynchosia reniformis* DC.; DTM 129



*Rhynchosia tomentosa* (L.) Hook. & Arn.; RDT 36931  
*Robinia hispida* L.; MM 194  
*Robinia pseudoacacia* L.; Haynes 5699  
*Senna marilandica* (L.) Link; DTM 196  
*Senna obtusifolia* (L.) Irwin & Barneby; DTM 1575  
*Sesbania drummondii* (Rydb.) Cory; DTM 202  
*Sesbania herbacea* (P. Mill.) McVaugh; DTM 1476  
 \**Sesbania punicea* (Cav.) Benth.; DTM 1215  
*Sophora affinis* Torr. & A. Gray; Cocks s.n. NO  
*Strophostyles helvula* (L.) Ell.; DTM 564  
*Strophostyles leiosperma* (Torr. & A. Gray) Piper; DTM 544  
*Strophostyles umbellata* (Muhl. ex Willd.) Britt.; Raymond 779 LSUS  
*Stylosanthes biflora* (L.) B.S.P.; MM 2713  
*Tephrosia onobrychoides* Nutt.; DTM 1904  
*Tephrosia virginiana* (L.) Pers.; DTM 462  
 \**Trifolium arvense* L.; RDT 80865  
 \**Trifolium campestre* Schreb.; DTM 151  
*Trifolium carolinianum* Michx.; DTM 2639  
 \**Trifolium dubium* Sibthorp; DTM 289  
 \**Trifolium incarnatum* L.; DTM 334  
 \**Trifolium lappaceum* L.; DTM 2641  
 \**Trifolium pratense* L.; MM 6466  
*Trifolium reflexum* L.; DTM 2638  
 \**Trifolium repens* L.; DTM 136  
 \**Trifolium resupinatum* L.; DTM 313  
 \**Trifolium vesiculosum* Savi; DTM 125  
*Vicia caroliniana* Walt.; DTM 2137  
*Vicia ludoviciana* Nutt.; DTM 1160  
 \**Vicia lutea* L.; RDT 127204  
*Vicia minutiflora* F.G. Dietr.; MM 152  
 \**Vicia sativa* L.; DTM 358  
 \**Vicia tetrasperma* (L.) Schreb.; RDT 88360 LSU  
 \**Vicia villosa* Roth; DTM 394  
*Wisteria frutescens* (L.) Poir.; Haynes 5356  
 \**Wisteria sinensis* (Sims) DC.; DTM 1131  
*Zornia bracteata* J.F. Gmel.; MM 2844

## FAGACEAE

*Castanea pumila* (L.) P. Mill.; DTM 1202  
*Fagus grandifolia* Ehrh.; Manning 208 LTU  
*Quercus alba* L.; Barbour 567  
*Quercus arkansana* Sarg.; MM 2872  
*Quercus falcata* Michx.; Haynes 4094  
*Quercus hemispherica* Bart. ex Willd.; RDT 32931  
*Quercus incana* Bartr.; MM 2581  
*Quercus laurifolia* Michx.; RDT 37236  
*Quercus lyrata* Walt.; RDT 42015  
*Quercus macrocarpa* Michx.; Thieret 22660 LAF  
*Quercus margarettiae* Ashe ex Small; RDT 167037  
*Quercus marilandica* Muenchh.; Raymond 1321 LSUS  
*Quercus michauxii* Nutt.; DTM 2152  
*Quercus muhlenbergii* Engelm.; RDT 36212  
*Quercus nigra* L.; MM 5972  
*Quercus phellos* L.; Raymond 1292 LSUS  
*Quercus rubra* L.; Middlebrooks 206 NLU  
*Quercus shumardii* Buckl.; Hardy 8609

*Quercus stellata* Wangenh.; MM 5016 (includes *Quercus similis* Ashe)  
*Quercus velutina* Lam.; Raymond 145 NLU  
*Quercus virginiana* P. Mill.; Rowe 105 LSUS

## FUMARIACEAE

*Corydalis flavula* (Raf.) DC.; RDT 88228  
*Corydalis micrantha* (Engelm. ex A. Gray) A. Gray; MM 135

## GENTIANACEAE

*Centaurium muehlenbergii* (Griseb.) W. Wright ex Piper; MM 6435.  
*Sabatia angularis* (L.) Pursh; DTM 145  
*Sabatia campestris* Nutt.; DTM 72

## GERANIACEAE

*Geranium carolinianum* L.; DTM 301  
 \**Geranium dissectum* L.; DTM 990

## GROSSULARIACEAE

*Itea virginica* L.; DTM 1196  
*Ribes curvatum* Small; DTM 2129

## HALORAGACEAE

\**Myriophyllum aquaticum* (Vell.) Verdc.; Barbour 454  
*Myriophyllum heterophyllum* Michx.; Barbour 908  
 \**Myriophyllum spicatum* L.; Barbour 450  
*Proserpinaca palustris* L.; MM 205

## HAMAMELIDACEAE

*Hamamelis virginiana* L.; Manning 176 LTU  
*Liquidambar styraciflua* L.; DTM 1071

## HIPPOCASTANACEAE

*Aesculus pavia* L.; Graham 446 LSUS

## HYDROPHYLLACEAE

*Hydrolea ovata* Nutt. ex Choisy; DTM 12  
*Hydrolea uniflora* Raf.; DTM 11  
*Phacelia glabra* Nutt.; DTM 335  
*Phacelia strictiflora* (Engelm. & A. Gray) A. Gray; MM 2544

## JUGLANDACEAE

*Carya alba* (L.) Nutt. ex Ell.; Raymond 1294 LSUS  
*Carya aquatica* (Michx. f.) Nutt.; Barbour 909  
*Carya cordiformis* (Wangenh.) K. Koch; Raymond 1302 LSUS  
*Carya glabra* (P. Mill.) Sweet; RDT 170092  
*Carya illinoensis* (Wangenh.) K. Koch; MM 6470  
*Carya myristiciformis* (Michx. f.) Nutt.; Graham 503 LSUS  
*Carya ovata* (P. Mill.) K. Koch; MM 244  
*Carya texana* Buckl.; Hardy 8611  
*Juglans nigra* L.; Raymond 1679 NLU

## LAMIACEAE

\**Ajuga reptans* L.; MM 202  
 \**Glechoma hederacea* L.; RDT 43545  
*Hedeoma hispida* Pursh; DTM 873  
 \**Lamium amplexicaule* L.; DTM 53  
 \**Lamium purpureum* L.; DTM 2095  
*Lycopus americanus* Muhl. ex W. Bart.; DTM 161



*Lycopus rubellus* Moench; DTM 682  
*Lycopus virginicus* L.; RDT 37009  
 \**Mentha spicata* L.; DTM 1839  
*Monarda citriodora* Cerv. ex Lag.; RDT 45372  
*Monarda clinopodioides* Gray; DTM 1753  
*Monarda fistulosa* L.; DTM 93  
*Monarda punctata* L.; DTM 15  
 \**Perilla frutescens* (L.) Britt.; MM 270  
*Physostegia angustifolia* Fern.; MM 222  
*Physostegia digitalis* Small; DTM 527  
*Physostegia intermedia* (Nutt.) Engelm. & A. Gray; DTM 2305  
*Prunella vulgaris* L.; DTM 380  
*Pycnanthemum albescens* Torr. & A. Gray; DTM 194  
*Pycnanthemum muticum* (Michx.) Pers.; RDT 167061  
*Pycnanthemum tenuifolium* Schrad.; DTM 54  
*Salvia azurea* Michx. ex Lam.; DTM 214  
*Salvia lyrata* L.; DTM 35  
*Scutellaria cardiophylla* Engelm. & A. Gray; MM 2723  
*Scutellaria integrifolia* L.; DTM 430  
*Scutellaria ovata* Hill; DTM 1815  
*Scutellaria parvula* Michx.; DTM 323  
*Stachys crenata* Raf.; DTM 325  
*Stachys floridana* Shuttlw. ex Benth.; MM 214  
*Stachys tenuifolia* Willd.; DTM 1401  
*Teucrium canadense* L.; DTM 235  
*Trichostema dichotomum* L.; DTM 653

#### LAURACEAE

*Lindera benzoin* (L.) Blume; Hardy 8617  
*Sassafras albidum* (Nutt.) Nees; DTM 1068

#### LENTIBULARIACEAE

*Uticularia gibba* L.; Barbour 446  
*Uticularia inflata* Walt.; DTM 2183  
*Uticularia macrorhiza* LeConte; Barbour 464

#### LINACEAE

*Linum medium* (Planch.) Britt.; DTM 522  
*Linum striatum* Walt.; RDT 170116

#### LOGANIACEAE

*Gelsemium sempervirens* (L.) Aiton f.; DTM 270  
*Mitrea petiolata* (J.F. Gmel.) Torr. & A. Gray; DTM 201  
*Spigelia marilandica* (L.) L.; MM 210

#### LYTHRACEAE

*Ammannia auriculata* Willd.; DTM 1817  
*Ammannia coccinea* Rottb.; MM 289  
*Decodon verticillatus* (L.) Ell.; Lynch 2663 LSUS  
*Lythrum alatum* Pursh; MM 6783  
*Rotala ramosior* (L.) Koehne; Haynes 5336

#### MAGNOLIACEAE

*Magnolia grandiflora* L.; Burns 238 LSUS  
*Magnolia virginiana* L.; Barbour 1191

#### MALVACEAE

\**Abutilon theophrasti* Medik.; RDT 119031

*Callirhoe alcaeoides* (Michx.) A. Gray; DTM 1049  
*Callirhoe digitata* Nutt.; RDT 88370  
*Callirhoe involucrata* (Torr. & A. Gray) A. Gray; Newsom s.n. LSU  
*Callirhoe papaver* (Cav.) A. Gray; MM 257  
*Hibiscus laevis* All.; DTM 92  
*Hibiscus moscheutos* L.; DTM 168  
 \**Hibiscus syriacus* L.; Gamblin s.n. LTU (localized and persisting)  
*Malvaviscus arboreus* Dill. ex Cav.; MM 123  
*Modiola caroliniana* (L.) G. Don; DTM 379  
*Sida rhombifolia* L.; DTM 186  
*Sida spinosa* L.; DTM 521

#### MELASTOMATACEAE

*Rhexia mariana* L.; DTM 243

#### MELIACEAE

\**Melia azedarach* L.; MM 6183

#### MENISPERMACEAE

*Cocculus carolinus* (L.) DC.; Barbour 473

#### MOLLUGINACEAE

*Mollugo verticillata* L.; DTM 1373

#### MONOTROPACEAE

*Monotropa hypopithys* L.; Thieret 24524 LAF  
*Monotropa uniflora* L.; MM 281

#### MORACEAE

\**Broussonetia papyrifera* (L.) L'Her. ex Vent.; DTM 1145  
*Maclura pomifera* (Raf.) Schneid.; Barbour 570  
 \**Morus alba* L.; DTM 1324  
*Morus rubra* L.; Haynes 5764

#### MYRICACEAE

*Morella caroliniensis* (P. Mill.) Small; RDT 33652  
*Morella cerifera* (L.) Small; Haynes 4507

#### NELUMBONACEAE

*Nelumbo lutea* Willd.; Barbour 467

#### NYCTAGINACEAE

*Boerhaavia diffusa* L.; DTM 2573  
*Boerhaavia erecta* L.; RDT 65066 LSU  
*Mirabilis albida* (Walt.) Heimerl; MM 2610

#### NYMPHAEACEAE

*Nuphar advena* (Aiton) W.T. Aiton; MM 208  
*Nymphaea odorata* Aiton; DTM 918

#### OLEACEAE

*Chionanthus virginicus* L.; Raymond 1307 LSUS  
*Forestiera acuminata* (Michx.) Poir.; Barbour 1004  
*Forestiera ligustrina* (Michx.) Poir.; Raymond s.n. LSUS  
*Fraxinus americana* L.; Hardy 8613  
*Fraxinus caroliniana* P. Mill.; MM 252  
*Fraxinus pennsylvanica* Marsh.; MM 6682  
 \**Ligustrum japonicum* Thunb.; DTM 1173  
 \**Ligustrum lucidum* Aiton f.; RDT 32907  
 \**Ligustrum sinense* Lour.; DTM 1171



**ONAGRACEAE**

- Gaura longiflora* Spach; DTM 221  
*Gaura mollis* James; DTM 104  
*Gaura sinuata* Nutt. ex Ser.; DTM 1790  
*Ludwigia alternifolia* L.; DTM 115  
*Ludwigia decurrens* Walt.; DTM 617  
*Ludwigia glandulosa* Walt.; DTM 1400  
*Ludwigia hirtella* Raf.; DTM 1301  
*Ludwigia leptocarpa* (Nutt.) Hara; DTM 226  
*Ludwigia linearis* Walt.; DTM 622  
*Ludwigia palustris* (L.) Ell.; Haynes 4090  
*Ludwigia peploides* (Kunth) Raven; Haynes 4087  
*Ludwigia repens* J.R. Forst.; MM 6633  
*Oenothera biennis* L.; MM 2685  
*Oenothera heterophylla* Spach; Thieret 31220 LAF  
*Oenothera laciniata* Hill; DTM 79  
*Oenothera linifolia* Nutt.; DTM 311  
*Oenothera spachiana* Torr. & A. Gray; DTM 989  
*Oenothera speciosa* Nutt.; DTM 122

**OXALIDACEAE**

- Oxalis corniculata* L.; MM 5947  
 \**Oxalis debilis* Kunth; MM 321  
*Oxalis dillenii* Jacq.; MM 171  
 \**Oxalis rubra* St.-Hil.; DTM 492  
*Oxalis violacea* L.; DTM 417

**PAPAVERACEAE**

- \**Papaver rhoeas* L.; Barbour 560 (questionably naturalized)

**PASSIFLORACEAE**

- Passiflora incarnata* L.; DTM 133  
*Passiflora lutea* L.; DTM 96

**PEDALIACEAE**

- Proboscidea louisianica* (P.Mill.) Thellung; Hall s.n. LSUS

**PHRYMACEAE**

- Phryma leptostachya* L.; DTM 1290

**PHYTOLACCACEAE**

- Phytolacca americana* L.; DTM 61  
*Rivinia humilis* L.; DTM 1490

**PLANTAGINACEAE**

- Plantago aristata* Michx.; DTM 1025  
*Plantago heterophylla* Nutt.; MM 6023  
*Plantago hookeriana* Fisch. & C.A. Mey.; MM 2580  
 \**Plantago lanceolata* L.; DTM 897  
*Plantago patagonica* Jacq.; RDT 88695  
*Plantago pusilla* Nutt.; MM 7301  
*Plantago rhodosperma* Dcne.; RDT 65015  
*Plantago virginica* L.; DTM 1026  
*Plantago wrightiana* Dcne.; DTM 913

**PLATANACEAE**

- Platanus occidentalis* L.; Haynes 4634

**POLEMONIACEAE**

- Phlox divaricata* L.; Lawrence 17 LTU  
*Phlox drummondii* Hook.; MM 197

- Phlox pilosa* L.; Raymond 1200 LSUS

**POLYGALACEAE**

- Polygala mariana* P. Mill.; RDT 170119  
*Polygala polygama* Walt.; MM 2629  
*Polygala sanguinea* L.; DTM 461  
*Polygala verticillata* L.; RDT 36193

**POLYGONACEAE**

- Brunnichia ovata* (Walt.) Shinners; DTM 171  
*Eriogonum longifolium* Nutt.; MM 2323  
*Eriogonum multiflorum* Benth.; MM 2870  
*Polygonella americana* (Fisch. & C.A. Mey.) Small; MM 2816  
 \**Polygonum aviculare* L.; DTM 1336  
 \**Polygonum caespitosum* Blume; RDT 170115  
 \**Polygonum convolvulus* L.; RDT 66461 LSU  
*Polygonum densiflorum* Meisn.; DTM 608  
*Polygonum erectum* L.; RDT 32876  
*Polygonum hydropiperoides* Michx.; DTM 113  
 \**Polygonum lapathifolium* L.; DTM 601  
*Polygonum pensylvanicum* L.; DTM 213  
 \**Polygonum persicaria* L.; Haynes 4222  
*Polygonum punctatum* Ell.; Haynes 4224  
*Polygonum ramosissimum* Michx.; DTM 643  
*Polygonum scandens* L.; MM 292  
*Polygonum setaceum* Baldw.; DTM 239  
*Polygonum virginianum* L.; Raymond 775 LSUS  
*Rumex altissimus* Wood; DTM 1192  
 \**Rumex crispus* L.; DTM 817  
*Rumex hastatulus* Baldw.; DTM 798  
 \**Rumex pulcher* L.; DTM 865  
*Rumex verticillatus* L.; DTM 907

**PORTULACACEAE**

- Claytonia virginica* L.; DTM 116  
*Portulaca oleracea* L.; DTM 692  
*Talinum parviflorum* Nutt.; MM 3354  
*Talinum rugospermum* Holz.; MM 2757

**PRIMULACEAE**

- \**Anagallis arvensis* L.; Lynch 3861 LSUS  
*Anagallis minima* (L.) Krause; DTM 1135  
*Dodecatheon meadia* L.; DTM 314  
*Lysimachia lanceolata* Walt.; Graham 565 LSUS  
*Samolus valerandi* L.; DTM 374

**RANUNCULACEAE**

- Anemone berlandieri* Pritz.; DTM 2590  
*Anemone caroliniana* Walt.; DTM 264  
*Clematis crispa* L.; MM 267  
*Clematis reticulata* Walt.; MM 2680  
 \**Clematis terniflora* DC.; MM 122  
*Clematis virginiana* L.; MM 269  
*Delphinium carolinianum* Walt.; MM 2774  
*Myosurus minimus* L.; Barbour 556  
*Ranunculus abortivus* L.; DTM 953  
*Ranunculus fascicularis* Muhl. ex Bigelow; DTM 773  
*Ranunculus laxicaulis* (Torr. & A. Gray) Darby; DTM 292



\**Ranunculus marginatus* d'Urv.; DTM 980  
 \**Ranunculus muricatus* L.; DTM 409  
 \**Ranunculus parviflorus* L.; DTM 878  
*Ranunculus pusillus* Poir.; DTM 775  
*Ranunculus recurvatus* Poir.; DTM 1047  
 \**Ranunculus sardous* Crantz; DTM 1048  
*Ranunculus sceleratus* L.; DTM 2019  
 \**Ranunculus trilobus* Desf.; DTM 902  
*Thalictrum dasycarpum* Fisch. & Ave-Lall.; DTM 901

## RHAMNACEAE

*Berchemia scandens* (Hill) K. Koch; DTM 1781  
*Ceanothus americanus* L.; MM 2370  
*Ceanothus herbaceus* Raf.; RDT 93612  
*Frangula caroliniana* (Walt.) A. Gray; Hardy 8646  
 \**Ziziphus zizyphus* (L.) Karst.; RDT 33078

## ROSACEAE

*Agrimonia microcarpa* Wallr.; Haynes 5337  
*Agrimonia rostellata* Wallr.; Haynes 5315  
*Amelanchier arborea* (Michx. f.) Fernald; Manning 485 LTU  
 \**Aphanes microcarpa* (Boiss. & Reut.) Rothm.; RDT 82794  
*Aronia arbutifolia* (L.) Ell.; RDT 33632  
*Crataegus berberifolia* Torr. & A. Gray; Graham 460 LSUS  
*Crataegus brachyacantha* Sarg. & Engelm.; Rowe 85 LSUS  
*Crataegus crus-galli* L.; RDT 165825  
*Crataegus engelmannii* Sarg.; DTM 1966 LSU  
*Crataegus marshallii* Egglest.; Haynes 4623  
*Crataegus opaca* Hook. & Arn.; Haynes 4627  
*Crataegus spathulata* Michx.; Haynes 4095  
*Crataegus uniflora* Muenchh.; MM 2578  
*Crataegus viridis* L.; Barbour 1164  
 \**Duchesnea indica* (Andr.) Focke; DTM 4  
*Geum canadense* Jacq.; DTM 387  
*Malus angustifolia* (Aiton) Michx.; RDT 88278  
*Porteranthus stipulatus* (Muhl. ex Willd.) Britt.; DTM 1030  
 \**Potentilla recta* L.; MM 2620  
*Potentilla simplex* Michx.; DTM 48  
*Prunus americana* Marsh.; RDT 96045  
*Prunus angustifolia* Marsh.; MM 2538  
*Prunus caroliniana* (P. Mill.) Aiton; DTM 1121  
*Prunus gracilis* Engelm. & A. Gray; MM 2539  
*Prunus mexicana* S. Wats.; Raymond 69 LSUS  
*Prunus serotina* Ehrh.; Barbour 47  
*Prunus umbellata* Ell.; DTM 1603  
 \**Pyrus calleryana* Dcne.; MM 5976  
 \**Rosa bracteata* J.C. Wendl.; Barbour 462 (questionably naturalized)  
*Rosa carolina* L.; MM 201  
 \**Rosa laevigata* Michx.; Barkley 103 LSU (questionably naturalized)  
 \**Rosa multiflora* Thunb. ex Murr.; Lynch 2273 LSUS (questionably naturalized)

*Rosa setigera* Michx.; MM s.n.  
*Rubus argutus* Link.; Raymond 2006 LSUS  
*Rubus trivialis* Michx.; Graham 444 LSUS

## RUBIACEAE

*Cephalanthus occidentalis* L.; DTM 1296  
*Diodia teres* Walt.; DTM 156  
*Diodia virginiana* L.; DTM 83  
*Galium aparine* L.; DTM 288  
*Galium circaezans* Michx.; DTM 922  
*Galium obtusum* Bigelow; DTM 994  
 \**Galium parisiense* L.; RDT 88323  
*Galium pilosum* Aiton; DTM 915  
*Galium tinctorium* (L.) Scop.; DTM 355  
*Galium triflorum* Michx.; RDT 43947  
*Galium uniflorum* Michx.; RDT 33621  
*Hedyotis nigricans* (Lam.) Fosberg; MM 227  
*Houstonia micrantha* (Skinner) Terrell; DTM 1979  
*Houstonia pusilla* Schoepf; Raymond 741 LSUS  
*Houstonia rosea* (Raf.) Terrell; DTM 255  
*Mitchella repens* L.; DTM 378  
*Oldenlandia boscii* (DC.) Chapman; DTM 2996  
*Oldenlandia uniflora* L.; RDT 33607  
*Richardia scabra* L.; DTM 1919  
 \**Sherardia arvensis* L.; DTM 269  
*Spermacoce glabra* Michx.; DTM 111

## RUTACEAE

\**Poncirus trifoliata* (L.) Raf.; MM 160  
*Ptelea trifoliata* L.; RDT 36987  
*Zanthoxylum clava-herculis* L.; Raymond 1319 LSUS

## SALICACEAE

\**Populus alba* L.; DTM 2230  
*Populus deltoides* Bartr. ex Marsh.; Haynes 4633  
*Salix exigua* Nutt.; Haynes 4157  
*Salix humilis* Marsh.; RDT 88359 LSU  
*Salix nigra* Marsh.; Haynes 5700

## SAPINDACEAE

*Cardiospermum halicacabum* L.; Haynes 5292  
*Sapindus saponaria* L.; RDT 88240

## SAPOTACEAE

*Sideroxylon lanuginosa* Michx.; MM 2828  
*Sideroxylon lycioides* L.; RDT 33011

## SAURURACEAE

*Saururus cernuus* L.; DTM 30

## SAXIFRAGACEAE

*Heuchera americana* L.; Haynes 5763  
*Lepuropetalon spathulatum* Ell.; RDT 34504

## SCROPHULARIACEAE

*Agalinis caddoensis* Pennell; Pennell 5658 PH  
*Agalinis fasciculata* (Ell.) Raf.; DTM 755  
*Agalinis gattingeri* (Small) Small; DTM 541  
*Agalinis heterophylla* (Nutt.) Small ex Britt.; DTM 736  
*Agalinis homalanthia* Pennell; DTM 748  
*Agalinis purpurea* (L.) Pennell; DTM 2570



*Agalinis tenuifolia* (Vahl) Raf.; DTM 2582  
*Agalinis viridis* (Small) Pennell; DTM 31  
*Aureolaria grandiflora* (Benth.) Pennell; DTM 605  
*Aureolaria pectinata* (Nutt.) Pennell; Cocks s.n. NO  
*Bacopa rotundifolia* (Michx.) Wettst.; DTM 1592  
*Buchnera americana* L.; DTM 21  
*Castilleja indivisa* Engelm.; Barbour 62  
*\*Chaenorhinum minus* (L.) Lange; RDT 65115 LSU  
*Collinsia violacea* Nutt.; Maynard 151 LTU  
*Dasistoma macrophylla* (Nutt.) Raf.; Palmer 10611 MO  
*Gratiola flava* Leavenworth; MM 7285  
*Gratiola neglecta* Torr.; DTM 398  
*Gratiola pilosa* Michx.; RDT 33636  
*Gratiola virginiana* L.; DTM 1127  
*Leucospora multifida* (Michx.) Nutt.; DTM 1103  
*Lindernia crustacea* (L.) F. Muell.; RDT 41803  
*Lindernia dubia* (L.) Pennell; DTM 165  
*\*Mazus pumilus* (Burm. f.) Steenis; DTM 964  
*Mecardonia acuminata* (Walt.) Small; DTM 216  
*Mimulus alatus* Aiton; DTM 603  
*Nuttallanthus canadensis* (L.) D.A. Sutton; DTM 263  
*Nuttallanthus texanus* (Scheele) D.A. Sutton; DTM 381  
*\*Parentucellia viscosa* (L.) Caruel; MM 2627  
*Pedicularis canadensis* L.; DTM 37  
*Penstemon digitalis* Nutt. ex Sims; Graham 554 LSUS  
*Penstemon laxiflorus* Pennell; DTM 811  
*Penstemon murrayanus* Hook.; MM 2317  
*Penstemon tenuis* Small.; DTM 557  
*Penstemon tubaeiflorus* Nutt.; DTM 81  
*Scrophularia marilandica* L.; RDT 88232  
*\*Verbascum blatteria* L.; Hardy 6535  
*\*Verbascum thapsus* L.; DTM 200  
*\*Veronica arvensis* L.; DTM 262  
*\*Veronica hederifolia* L.; Burns 13 LSUS  
*Veronica peregrina* L.; DTM 303  
*\*Veronica persica* Poir.; MM 5966  
*\*Veronica polita* Fries; DTM 273

#### SIMAROUBACEAE

*\*Ailanthus altissima* (P. Mill.) Swingle; Lewis 2185 NLU

#### SOLANACEAE

*\*Datura stramonium* L.; DTM 930  
*Physalis angulata* L.; DTM 187  
*Physalis cinerascens* (Dunal) A.S. Hitchc.; RDT 32855  
*Physalis cordata* P. Mill.; RDT 32854  
*Physalis hederifolia* Gray; RDT 89017  
*Physalis heterophylla* Nees; MM 2619  
*Physalis longifolia* Nutt.; MM 6667  
*Physalis mollis* Nutt.; MM 2608  
*Physalis pubescens* L.; DTM 1779  
*Physalis pumila* Nutt.; RDT 140326  
*Solanum carolinense* L.; DTM 99  
*Solanum dimidiatum* Raf.; Petersen s.n. LSU  
*Solanum elaeagnifolium* Cav.; DTM 108  
*\*Solanum pseudocapsicum* L.; Raymond 2149 LSUS  
*Solanum ptychanthum* Dunal; DTM 118

*Solanum rostratum* Dunal; RDT 81358

#### SPHENOCLEACEAE

*\*Sphenoclea zeylandica* Gaertn.; RDT 36943

#### STYRACACEAE

*Styrax americanus* Lam.; MM 189  
*Styrax grandifolius* Aiton; RDT 37239

#### SYMPLOCACEAE

*Symplocos tinctoria* (L.) L'Her.; Barbour 1166

#### TAMARICACEAE

*\*Tamarix gallica* L.; DTM 1318

#### TILIACEAE

*Tilia americana* L.; DTM 1144

#### ULMACEAE

*Celtis laevigata* Willd.; Haynes 4092  
*Celtis tenuifolia* Nutt.; RDT 37283  
*Planera aquatica* J.F. Gmel.; Haynes 8648  
*Ulmus alata* Michx.; Haynes 4508  
*Ulmus americana* L.; Haynes 4574  
*Ulmus crassifolia* Nutt.; Hardy 8610  
*Ulmus rubra* Muhl.; Raymond 308 LSUS

#### URTICACEAE

*Boehmeria cylindrica* (L.) Sw.; DTM 224  
*Parietaria pensylvanica* Muhl. ex Willd.; DTM 1796  
*Pilea pumila* (L.) A. Gray; MM 2950  
*Urtica chamaedryoides* Pursh; DTM 3

#### VALERIANACEAE

*Valerianella radiata* (L.) Dufr.; DTM 1028

#### VERBENACEAE

*Callicarpa americana* L.; DTM 1069  
*Glandularia bipinnatifida* (Nutt.) Nutt.; RDT 99514  
*Glandularia canadensis* (L.) Nutt.; DTM 9  
*\*Glandularia pulchella* (Sweet) Troncoso; DTM 1355  
*\*Lantana camara* L.; RDT 36934  
*Lantana urticoides* Hayek; DTM 1570  
*Phyla lanceolata* (Michx.) Greene; DTM 22  
*Phyla nodiflora* (L.) Greene; DTM 98  
*\*Verbena bonariensis* L.; DTM 1298  
*Verbena bracteata* Lag. & Rodr.; RDT 65091  
*\*Verbena brasiliensis* Vell.; DTM 661  
*Verbena halei* Small; DTM 330  
*\*Verbena rigida* Spreng.; DTM 893  
*Verbena urticifolia* L.; DTM 609  
*Verbena xutha* Lehm.; DTM 440  
*\*Vitex agnus-castus* L.; MM 226

#### VIOLACEAE

*Viola bicolor* Pursh; DTM 257  
*Viola lanceolata* L.; DTM 2106  
*Viola palmata* L.; DTM 772  
*Viola pedata* L.; DTM 43  
*Viola primulifolia* L.; DTM 2161  
*Viola pubescens* Aiton; RDT 119113  
*Viola sagittata* Aiton; DTM 2602



*Viola sororia* Willd.; DTM 788  
*Viola villosa* Walt.; MM 141  
*Viola walteri* House; DTM 816

#### VISCACEAE

*Phoradendron tomentosum* (DC.) Engelm. ex A. Gray;  
 DTM 2102

#### VITACEAE

*Ampelopsis arborea* (L.) Koehne; DTM 152  
*Ampelopsis cordata* Michx.; DTM 905  
*Cissus incisa* Des Moul.; DTM 1784

*Parthenocissus quinquefolia* (L.) Planch.; MM 6208  
*Vitis aestivalis* Michx.; DTM 912  
*Vitis cinerea* (Engelm.) Millard; Correll & Correll 10091  
 DUKE  
*Vitis palmata* Vahl; RDT 25315  
*Vitis riparia* Michx.; DTM 1159  
*Vitis rotundifolia* Michx.; MM 6201  
*Vitis vulpina* L.; RDT 42042

#### ZYGOPHYLLACEAE

\**Tribulus terrestris* L.; DTM 600

### ACKNOWLEDGMENTS

Stephanie Aamodt, former Chairman of the Biology Department, Louisiana State University in Shreveport, and Al Vekovius, former Dean of Science, Louisiana State University in Shreveport, provided the space for an herbarium where the work could be done. Guy Nesom, BRIT; Larry Brown, SBSC; Billie Turner, TEX, and Diane Ferguson, LSU, helped in determining several problematic specimens. Diane Ferguson, LSU; Kerry Heafner, NLU; Garrie Landry, LAF; Amanda Neill, BRIT; Eric Sundell, UAM; Milan Vavrick, LTU; Anne Bradburn, NO; Sherri Herndon, DUKE; George Russell, US, and James Solomon, MO, loaned specimens. Thanks also to Chris Reid, Louisiana Natural Heritage Program; Charles Allen, Botanist, Fort Polk; the late John Thieret, KNK; Larry Raymond, Caddo Parish Parks Department, and Gary Hanson, Patricia Peyton, and Scott Foord of the Red River Watershed Management Institute, Louisiana State University-Shreveport. Paul Sisson, Dean of Science, Louisiana State University in Shreveport, obtained funds for publication costs. Charles Allen, R.D.Thomas, and an anonymous reviewer provided helpful comments on the manuscript.

### REFERENCES

- ALLEN, C.M., D.A. NEWMAN, and H. WINTERS. 2004. Grasses of Louisiana. 3rd Edition. Allen's Native Ventures, Pitkin, Louisiana.
- BRAUN, E.L. 1950. Deciduous forests of eastern North America. Hafner Press, New York.
- CANNE-HILLIKER, J.M. and M. DUBRULE. 1993. A new species of *Agalinis* (Scrophulariaceae) from Grimes County, Texas. Sida 15:425–440.
- CORRELL, D.S. and H.B. CORRELL. 1941. A collection of plants from Louisiana. Amer. Midl. Naturalist 26: 30–64.
- DIGGS, G.M., B.L. LIPSCOMB, and R.J. O'KENNON. 1999. Illustrated flora of north central Texas. Sida Bot. Misc. 16:1–1626.
- DIGGS, G.M., B.L. LIPSCOMB, M.D. REED, and R.J. O'KENNON. 2006. Illustrated flora of east Texas. Sida Bot Misc. 26:1–1594.
- EDWARDS, J.P., P.G. MARTIN, J.W. MAGOUN, W.W. KILPATRICK, and C. HENRY. 1980. Soil survey of Caddo Parish, Louisiana. U.S.D.A. Soil Conservation Service, Washington, D.C.
- FLORA OF NORTH AMERICA EDITORIAL COMMITTEE (eds.). 1993–2006. Flora of North America North of Mexico. Vols. 1, 2, 3, 4, 22, 23, 25, 26. Oxford Univ. Press, New York and Oxford.
- FLORES, D.L. 1984. Jefferson and southwestern exploration: The Freeman and Custis accounts of the Red River expedition of 1806. Univ. Oklahoma Press, Norman.
- GANDHI, K.N. and R.D. THOMAS. 1989. Asteraceae of Louisiana. Sida Bot. Misc. 4:1–202.



- KARTESZ, J.A. and C.A. MEACHAM. 1999. Synthesis of North American flora. Version 1.0. North Carolina Botanical Garden. Chapel Hill.
- KEITH, E.L., J.R. SINGHURST, and S. COOK. 2004. *Geocarpon minimum* (Caryophyllaceae), new to Texas. *Sida* 21:1165–1169.
- LARKE, J.O. and L.M. SMITH. 1994. Rare plants of pine-hardwood forests in Louisiana. Louisiana Department of Wildlife and Fisheries, Baton Rouge.
- LEIDOLF, A., S. MCDANIEL, and T. NUTTLE. 2002. The flora of Oktibbeha County, Mississippi. *Sida* 20:691–765.
- LESTER, G.D., S.G. SORENSEN, P.L. FAULKNER, C.S. REID, and I.E. MAXIT. 2005. Louisiana Comprehensive Wildlife Conservation Survey. Unpublished report. Louisiana Natural Heritage Program, Louisiana Department of Wildlife and Fisheries, Baton Rouge.
- LOUISIANA NATURAL HERITAGE PROGRAM. 2004. Rare plant species of Louisiana. Unpublished report. Louisiana Natural Heritage Program, Louisiana Department of Wildlife and Fisheries, Baton Rouge.
- LOUISIANA NATURAL HERITAGE PROGRAM. 2006. Rare plant species of Louisiana. Unpublished report. Louisiana Natural Heritage Program, Louisiana Department of Wildlife and Fisheries, Baton Rouge.
- MACROBERTS, B.R. and M.H. MACROBERTS. 1994. Floristics of a xeric sandyland in western Louisiana. *Phytologia* 77:414–424.
- MACROBERTS, B.R. and M.H. MACROBERTS. 1995. Vascular flora of xeric sandhills in northwestern Louisiana. *Phytologia* 79:123–131.
- MACROBERTS, B.R. and M.H. MACROBERTS. 1996. Floristics of xeric sandhills in east Texas. *Phytologia* 80:1–7.
- MACROBERTS, B.R. and M.H. MACROBERTS. 1997. *Talinum rugospermum* Holz. new to Louisiana with notes on terete-leaved *Talinum* in Louisiana. *Phytologia* 82:86–93.
- MACROBERTS, B.R., M.H. MACROBERTS, and J.C. CATHEY. 2002. Floristics of xeric sandylands in the post oak savanna region of east Texas. *Sida* 20:373–386.
- MACROBERTS, D.T. 1977a. Additions to the Louisiana flora. *Sida* 7:220–222.
- MACROBERTS, D.T. 1977b. New combinations in *Tradescantia*. *Phytologia* 37:451–452.
- MACROBERTS, D.T. 1978a. Notes on *Tradescantia*: *T. diffusa* Bush and *T. pedicillata* Celarier. *Phytologia* 38:227–228.
- MACROBERTS, D.T. 1978b. The status of *Agalinis caddoensis* Pennell. *Phytologia* 40:1–6.
- MACROBERTS, D.T. 1979a. Checklist of the plants of Caddo Parish, Louisiana. *Bull. Mus. Life Sci., Louisiana State University-Shreveport* 1:1–54.
- MACROBERTS, D.T. 1979b. Notes on *Tradescantia* III. *Tradescantia ohiensis* Raf. var. *paludosa* (Anderson and Woodson) MacRoberts, comb. nov. *Phytologia* 43:380–382.
- MACROBERTS, D.T. 1980a. Notes on *Tradescantia* IV: The distinction between *Tradescantia virginiana* (Commelinaceae) and *Tradescantia hirsutiflora*. *Phytologia* 46:409–416.
- MACROBERTS, D.T. 1980b. Notes on *Tradescantia* (Comelinaceae) V. *Tradescantia* of Louisiana. *Bull. Mus. Life Sci., Louisiana State University-Shreveport* 4:1–15.
- MACROBERTS, D.T. 1980c. Notes on *Tradescantia* VI. Observations on the mechanism of pigment deposition. *Phytologia* 46:417–418.
- MACROBERTS, D.T. 1984a. The vascular plants of Louisiana. An annotated checklist and bibliography of the vascular plants reported to grow without cultivation in Louisiana. *Bull. Mus. Life Sci., Louisiana State University-Shreveport* 6:1–165.
- MACROBERTS, D.T. 1984b. *Helianthemum rosmarinifolium* and *Oenothera triloba* in Louisiana. *Phytologia* 55:343.
- MACROBERTS, D.T. 1987. Reported Texas endemics. *Castanea* 52:72.



- MACROBERTS, D.T. 1989. A documented checklist and atlas of the vascular flora of Louisiana. *Bull. Mus. Life Sci., Louisiana State University-Shreveport* 7–9:1–756.
- MACROBERTS, D.T., B.R. MACROBERTS, and M.H. MACROBERTS. 1997. A floristic and ecological interpretation of the Freeman and Custis Red River Expedition of 1806. *Bull. Mus. Life Sci., Louisiana State University-Shreveport* 12:1–26.
- MACROBERTS, M.H. and B.R. MACROBERTS. 1998. Quality change of habitat in northwestern Louisiana. *Phytologia* 84:297–303.
- MACROBERTS, M.H., B.R. MACROBERTS, B. Sorrie, and R. Evans. 2002. Endemism in the West Gulf Coastal Plain: importance of xeric habitats. *Sida* 20:767–779.
- MacRoberts, M.H., B. R. MACROBERTS, and L.S. JACKSON. 2003. Louisiana prairies. In: E. Peacock and T. Schauwecker, eds. *Blackland Prairies of the Gulf Coastal Plain: Nature, Culture and Sustainability*. Univ. Alabama Press, Tuscaloosa. Pp. 80–93.
- MACROBERTS, M.H. and B. R. MACROBERTS. 2003a. West Gulf Coastal Plain ecoregions. *Sida* 20:1245–1274.
- MACROBERTS, M.H. and B.R. MACROBERTS. 2003b. The east-west transition of flora in Texas: a biogeographical analysis. *Sida* 20:1693–1700.
- MACROBERTS, M.H. and B.R. MACROBERTS. 2004a. West Gulf Coastal Plain prairies: a first approximation at a synthesis. *Third Eastern Native Grass Symposium*, Chapel Hill, North Carolina: 5–21.
- MACROBERTS, M.H. and B.R. MACROBERTS. 2004b. About 450 miles up the Red River in a large prairie: Peter Custis' surviving botanical information from the Red River expedition of 1806. *Sida* 21:963–975.
- MACROBERTS, M.H. and B. R. MACROBERTS. 2005. Reference conditions of the Red River floodplain and upland, Caddo Parish, Louisiana. *Sida* 21:1793–1806.
- MACROBERTS, M.H. and B.R. MACROBERTS (in prep.). Vascular flora and community structure of the C. Bickham Dickson Park/Red River Education and Research Park, Caddo Parish, Louisiana, Red River floodplain.
- MARSICO, T.D. 2005. The vascular flora of Montgomery County, Arkansas. *Sida* 21: 2389–2423.
- MCBRYDE, J.B. 1933. The vegetation and habitat factors of the Carrizo sands. *Ecol. Monogr.* 3:247–297.
- MCINNIS, N.C., L.M. SMITH, and A.B. PITTMAN. 1993. *Geocarpon minimum* (Caryophyllaceae), new to Louisiana. *Phytologia* 75:159–162.
- MCKINNEY, L.E. 1992. A taxonomic revision of the acaulescent blue violets (*Viola*) of North America. *Sida Bot. Misc.* 7:1–60.
- MCKINNEY, L.E. and N.H. RUSSELL. 2002. Violaceae of the southeastern United States. *Castanea* 67: 369–379.
- MCLAUGHLIN, S.P. (in press). Tundra to Tropics: The floristic plant geography of North America. *Sida, Bot. Misc.*
- NESOM, G.L. and L.E. BROWN. 1998. Annotated checklist of the vascular plants of Walker, Montgomery, and San Jacinto counties, east Texas. *Phytologia* 84: 107–153.
- NESOM, G.L. 2004a. New species of *Gamochaeta* (Asteraceae: Gnaphalieae) from the eastern United States and comments on similar species. *Sida* 21:717–741.
- NESOM, G.L. 2004b. New distribution records for *Gamochaeta* (Asteraceae: Gnaphalieae) in the United States. *Sida* 21:1175–1185.
- NEYLAND, R. 2002. An update to the vascular flora of Calcasieu Parish, Louisiana. *Sida* 20:431–433.
- OVERBY, R.E. 1974. A preliminary survey of the vascular flora of Caddo Parish, Louisiana. M.S. Thesis, Northeast Louisiana University, Monroe.
- REID, C. and P. FAULKNER (in press). *Loeflingia squarrosa* (Caryophyllaceae): new to Louisiana. *Phytologia*
- SKEEN, J.N., P.D. DOERR, and D.H. VAN LEAR. 1993. Oak-hickory-pine forests. In: W.H. Martin, S.G. Boyce, and A.C. Echtermacht, eds. *Biodiversity of the southeastern United States*. John Wiley, New York. Pp. 1–33.



- SMITH, E.B. 1988. An atlas and annotated list of the vascular plants of Arkansas. Privately published. Fayetteville, Arkansas.
- SMITH, E.B. 1994. Keys to the flora of Arkansas. Univ. Arkansas Press, Fayetteville.
- TEAGUE, J. and T. WENDT 1994. Caddo and Bossier parishes, Louisiana, natural areas survey. The Nature Conservancy, Baton Rouge.
- THOMAS, R.D. and C.M. ALLEN. 1993–1998. Atlas of the vascular flora of Louisiana. Louisiana Department of Wildlife and Fisheries, Baton Rouge.
- THOMAS, R.D., L.R. RAYMOND, B.R. MACROBERTS, and M.H. MACROBERTS (in press). Documented and annotated checklist of the vascular flora of the Walter B. Jacobs Memorial Nature Park, Caddo Parish, Louisiana. *Proc. Louisiana Acad. Sci.*
- THORNE, R.F. 1993. Phytogeography. In: *Flora of North America* Editorial Committee, eds. *Fl. North Amer.* 1: 132–153. Oxford Univ. Press, New York and Oxford.
- TRISKA, F.J. 1984. Role of wood debris in modifying channel geomorphology and riparian areas of a large lowland river under pristine conditions: a historical case study. *Verh. Internat. Verein. Limnol.* 22:1876–1892.
- TURNER, B.L., H. NICHOLS, G. DENNY, and O. DORON. 2003. Atlas of the vascular plants of Texas. *Sida Bot. Misc.* 24:1–888.





Macroberts, Barbara R and Macroberts, Michael H . 2006. "AN UPDATED, ANNOTATED VASCULAR FLORA OF CADDO PARISH, LOUISIANA, WITH NOTES ON REGIONAL PHYTOGEOGRAPHY AND ECOLOGY." *SIDA, contributions to botany* 22, 1191–1219.

**View This Item Online:** <https://www.biodiversitylibrary.org/item/34586>

**Permalink:** <https://www.biodiversitylibrary.org/partpdf/163873>

**Holding Institution**

Missouri Botanical Garden, Peter H. Raven Library

**Sponsored by**

Missouri Botanical Garden

**Copyright & Reuse**

Copyright Status: In copyright. Digitized with the permission of the rights holder.

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.