

ANNOTATED CHECKLIST OF THE VASCULAR FLORA OF THE JACK GORE  
BAYGALL AND NECHES BOTTOM UNITS OF THE BIG THICKET NATIONAL  
PRESERVE, TYLER, JASPER, AND HARDIN COUNTIES, TEXAS

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ABSTRACT

An annotated, vouchered checklist is provided of the vascular plant taxa of the Jack Gore Baygall and Neches Bottom Units of the Big Thicket National Preserve in Tyler, Jasper, and Hardin counties, Texas. Together they total 5,379 hectares. Documented for the units are 739 taxa (but only 734 species due to multiple varieties in some native species), of which 89 taxa (12.1%) are exotics.

RESUMEN

Se presenta una lista anotada, incluyendo colecciones botánicas, de plantas vasculares en las unidades de Jack Gore Baygall y de Neches Bottom del Big Thicket National Preserve, en los condados de Tyler, Jasper y Hardin en Texas. Juntos estos condados suman 5.379 hectáreas. Se documentan 739 taxones en las unidades (de estas solamente hay 734 especies, esto debido a las múltiples variedades de algunas especies nativas) de los cuales 89 taxones (12,1%) son exóticas.

INTRODUCTION

This is the 8th part of an inventory, based on available voucher specimens, of the vascular flora of the Big Thicket National Preserve in southeastern Texas. In previous papers, we provided annotated checklists of the Hickory Creek, Turkey Creek, Big Sandy Creek, Lance Rosier, Beech Creek, Loblolly, and Menard Creek Units (MacRoberts et al. 2002; Brown et al. 2005, 2006a, 2006b, 2008a, 2008b, 2009). In this paper, we provide an annotated checklist of the Jack Gore Baygall and Neches Bottom Units since they are continuous and occupy the same habitat.

SITE AND METHODS

The Big Thicket National Reserve is located in the West Gulf Coastal Plain in southeastern Texas (see Diggs et al. 2006) for literature and description). It consists of units ranging from 222 to 10,000 hectares and of about 40,100 hectares scattered over seven counties (Fig. 1). The Jack Gore Baygall and Neches Bottom Units straddle the Neches River in Tyler, Jasper, and Hardin counties and total 5,379 hectares (Peacock 1994). Latitude extends from 30°47.933'N at the B.A. Steinhagen Lake dam at Town Bluff south to 30°15.055'N at juncture with the Beaumont Unit. Longitude extends from 94°10.723' at Highway 2937 in Hardin County east to 94°03.660 at Sally Withers Lake in Jasper County. These units are located on Deweyville, Lissie, and modern alluvial soil series (Deshotels 1978; Aranow 1981). The Jack Gore Baygall and Neches Bottom are among the most diverse units in the Preserve in that they contain upper-slope, mid-slope, and lower-slope forests as well as floodplain hardwood forest, wetland baygall, and cypress-tupelo swamp (Harcombe & Marks 1979; Marks & Harcombe 1981).

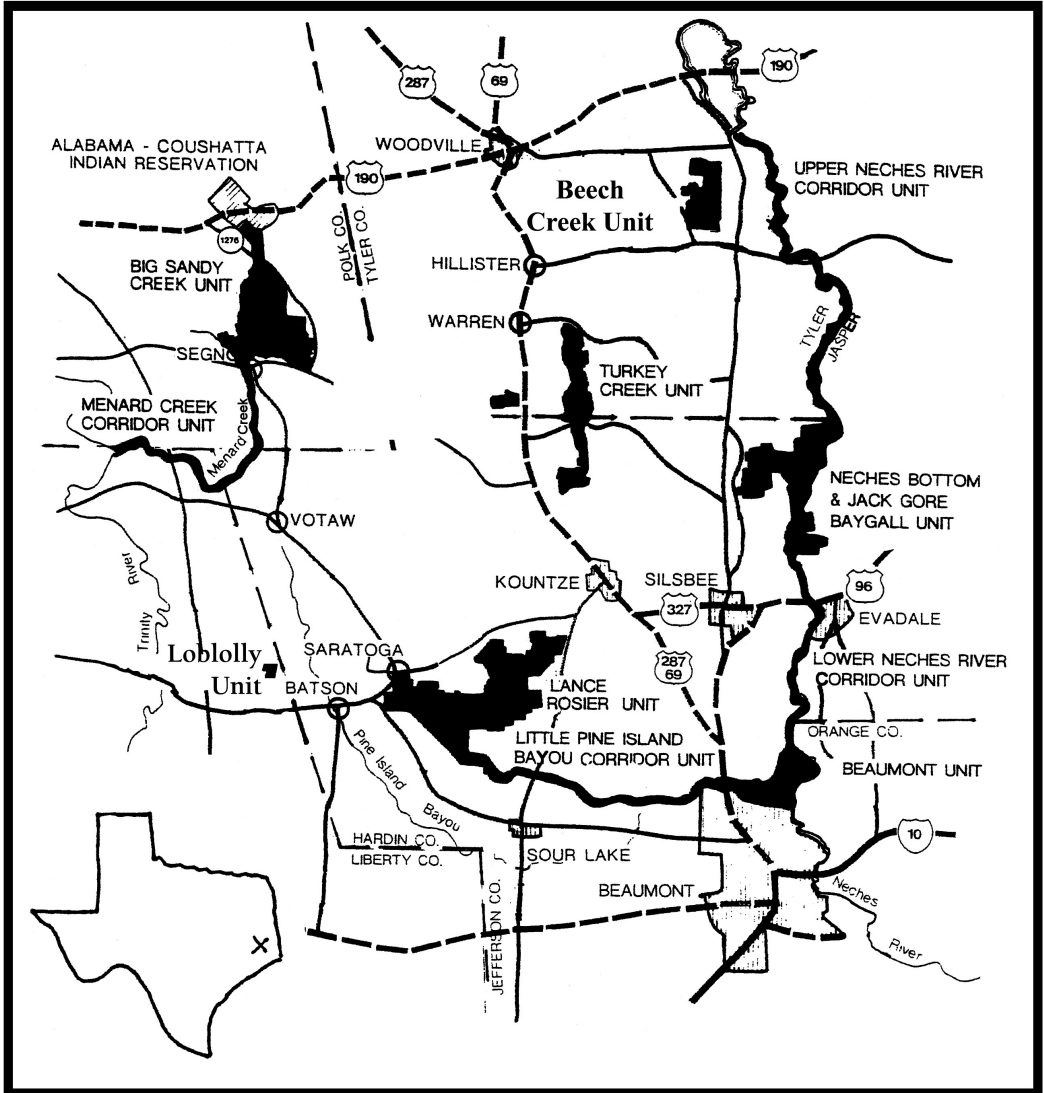


FIG. 1. Location of the Jack Gore Baygall and Neches Bottom units of the Big Thicket National Preserve, Texas.

Elevation ranges from a high of 33 meters in the small portion of the Jack Gore Baygall Unit adjacent to Highway 2937 to 3 meters at the junction of the Neches River Corridor Unit with the Beaumont Unit.

Like all units of the Big Thicket Biological Preserve, excluding the recent floristic inventories of the above cited units, the Jack Gore Baygall and Neches Bottom units had not previously been the subject of a detailed floristic inventory.

Because our purpose is to produce a list of taxa known to occur in the Jack Gore Baygall and Neches Bottom units, a vouchered specimen was considered to be the only evidence acceptable for inclusion in the list. In all, 1304 + herbarium specimens form the data for this report. Larry Brown annotated all specimens.

Larry Brown collected 716 specimens during 25 field days beginning in June 2008 and ending in November 2009. Stanley Jones collected 338 specimens in the mid 2000s. Geraldine Watson collected 51

specimens over several years in the late 1970s and early 1980s. The MacRoberts collected 31 specimens. Sandra Elsik and Warren Pruess together collected 105 specimens and Warren Pruess singly collected 57 specimens. Collection totals for the few others are 12. All collectors and collection numbers are designated by appropriate abbreviations below.

In most cases, the current family nomenclature follows Chester et al. (2009) and A.S. Weakley (2007). Species nomenclature for the most part follows Jones et al. (1997), Kartesz (1999), and Diggs et al. (2006). In cases of multiple collections, no more than four are listed for each taxon.

## RESULTS

The following is an annotated list of the Jack Gore Baygall Unit and Neches Bottom Units taxa. Abbreviations used are given below:

**CL** = C. Liu. His one collection is at TAES.

**PH** = Paul Harcombe. His one collection is at TAES.

**PR** = Paul Roling. His specimens are at TAES.

**GW** = Geraldine Watson. Her specimens are at TAES.

**JL** = Joe Liggio. He collected with LB and those specimens are at TAES.

**SJ** = Stanley Jones. His specimens are at TAES.

**LB** = Larry Brown. His specimens are at TAES, except for the few that are at SBSC indicated by (SBSC) after a collection number.

**MM** = Barbara and Michael MacRoberts. Their specimens are at TAES.

**SH** = Shawn Harper (Grandson of LB).

A collection number followed by (J) is from Jasper County and a collection number followed by (T) is from Tyler County. All others are from Hardin County.

**Acanthaceae**

*Justicia ovata* (Walter) Lindau var. *lanceolata* (Chapm.) R.W. Long, WP 144

*Ruellia caroliniensis* (J.F. Gmel.) Steud., SJ 14204; LB 34575

*Ruellia humilis* Nutt., GW 2953; LBRH 34645

*Ruellia pedunculata* Torr. ex A. Gray, LB 34606

**Aceraceae** (see Sapindaceae)**Adoxaceae**

*Sambucus nigra* L. subsp. *canadensis* (L.) Bollii, SJ 14306

*Viburnum acerifolium* L., SJ 14619

*Viburnum dentatum* L., SJ 14132; LBRH 33905

*Viburnum nudum* L. var. *nudum*, SEWP 460; LB 35106

**Agavaceae**

*Yucca louisianensis* Trel, LB 34235

**Alismataceae**

*Echinodorus cordifolius* (L.) Griseb., SJ 14288; LBSH 34723

*Sagittaria latifolia* Willd., LBSH 34184

*Sagittaria papillosa* Buchenau, WP 105

*Sagittaria platyphylla* (Engelm.) J.G. Smith, LBJL 34018

**Alliaceae**

*Allium canadense* L. var. *mobilense* (Regel) Ownbey, LB 34521

*Nothoscordum bivalve* (L.) Britton, SJ 14429

**Altingiaceae**

*Liquidambar styraciflua* L., LBSM 33728

**Amaranthaceae**

\**Alternanthera philoxeroides* (Mart.) Griseb., LBSH 34104

**SM** = Sam Harper (Grandson of LB).

**SE** = Sandra Elsik. Her specimens are at TAES.

**WP** = Warren Pruess. His specimens are at TAES.

**EK** = Eric Keith. His one collection is at TAES.

**RH** = Roland Harper (Grandson of LB).

**DK** = Dale Kruse. His one collection is at TAES.

**NIX** = Elray Nixon. His collections are at ASTC with some duplicates at SBSC.

**WRC** = Bill Carr. His collections are at TX.

\* = exotic

+ = see note at end of list

+\**Alternanthera sessilis* (L.) R. Br. ex DC., LB 34310

*Froelichia floridana* SJ 14411

*Dysphanis ambrosioides* (L.) Mosyakin & Clemants, SJ 14516; LB 35034

**Anacardiaceae**

*Rhus copallinum* L., SEWP 222

*Toxicodendron pubescens* Mill., LB 34595

*Toxicodendron radicans* (L.) Kuntze, WP 142; SJ 14621

*Toxicodendron vernix* (L.) Kuntze, LBJL 34036, 34031

**Annonaceae**

*Asimina parviflora* (Michx.) Dunal, GW 2948; LBRH 33900; LBSH 34191; LB 34610

**Apiaceae** (see Araliaceae for *Hydrocotyle*)

*Centella erecta* (L.f.) Fernald, MM 8012; SEWP 196

*Chaerophyllum tainturieri* Hook. var. *dasycarpum* Hook. ex S. Watson, LBSH 34393 (J)

\**Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & P. Wilson, WP 131

*Eryngium prostratum* Nutt. ex DC., SEWP 206; LBSH 34713

*Limnoscadium pumilum* (Engelm. & A. Gray) Mathias & Constance, LB 34577

*Ptilimnium capillaceum* (Michx.) Raf., SJ 14194a, 14134, 14194; LB 34589

*Sanicula canadensis* L., WP 136; LBSH 33826

\**Torilis nodosa* (L.) Gaertn., LB 34520

**Apocynaceae**

*Asclepias amplexicaulis* Michx., SJ 14311

*Asclepias obovata* Elliott, SEWP 188; GW 2960

*Asclepias perennis* Walter, SJ 14337; LBSH 34954  
 +*Gonolobus suberosus* (L.) R.Br. var. *granulatus* (Scheele) Krings  
 & O.Y. Xiang SJ 14146, 14305; LB 34529, 34986  
*Trachelospermum difforme* (Walter) A. Gray, SJ 14340; LB  
 35088

### Aquifoliaceae

*Ilex ambigua* (Michx.) Torr., SJ 14436, 14422, 14618; LBSH  
 34942  
*Ilex coriacea* (Pursh) Chapm., WP 161; LB 35104  
*Ilex decidua* Walter, LBSM 33720; LB 34257  
*Ilex longipes* Chapm. ex Trelease, LBRH 33893  
*Ilex opaca* Aiton, WP 156; LB 35075  
*Ilex vomitoria* Aiton, SJ 14502

### Araceae

*Arisaema triphyllum* (L.) Schott., GW 717

### Araliaceae

*Aralia spinosa* L., SJ 14421; LBJL 34028  
*Hydrocotyle umbellata* L., SJ 14366; LB 34211, 34316  
*Hydrocotyle verticillata* Thunb., LB 34527

### Aristolochiaceae

*Aristolochia reticulata* Jacq., SEWP 189  
*Aristolochia serpentaria* L., LB 19218; SJ 14341

### Asclepiadaceae (see Apocynaceae)

### Aspleniaceae

*Asplenium platyneuron* (L.) Britton, Sterns & Poggenb., SJ  
 3217

### Asteraceae

*Acmella repens* (Walter) Rich., SJ 14319; LB 34975  
*Ambrosia artemisiifolia* L., MM 8038; LB 34237  
*Ambrosia psilostachya* DC., LBJL 34010  
*Ambrosia trifida* L., LB 34217  
*Artemisia ludoviciana* Nutt., GW n18  
*Baccharis halimifolia* L., GW 3297; LBJL 34015  
*Berlandiera pumila* (Michx.) Nutt. var. *scabrella* Nesom & B.L.  
 Turner, SJ 14190a; LBSH 33830; LB 34597  
 +*Bidens aristosa* (Michx.) Britton, SJ 14376; LBRH 34060;  
 LB35071, 35184  
*Bidens bipinnata* L., LBJL 34014  
*Bidens laevis* (L.) Britton, Sterns & Poggenb., LBSH 34097  
*Boltonia diffusa* Elliott, SEWP 191; LB 35068  
*Bradburia pilosa* (Nutt.) Semple, SJ 14418; LB 35019  
*Chrysopsis mariana* (L.) Elliott, SEWP 295; LBRH 33888; LB  
 34224  
*Cirsium horridulum* Michx., WP 080  
*Conoclinium coelestinum* (L.) DC., MM 8024; SJ 14321  
*Conyza bonariensis* (L.) Cronquist, LB 34159  
*Conyza canadensis* (L.) Cronquist var. *canadensis*, SEWP 213;  
 LBJL 34027  
*Conyza canadensis* (L.) Cronquist var. *pusilla* (Nutt.) Cronquist,  
 SJ 14414  
*Coreopsis tinctoria* Nutt., SJ 14228  
*Croptilon divaricatum* (Nutt.) Raf., SEWP 390; LBRH 33899  
*Croptilon rigidifolium* (E.B. Smith) E.B. Smith, LBSH 34951  
*Echinacea sanguinea* Nutt., SJ 14210  
*Eclipta prostrata* (L.) L., SEWP 311; LBSM 33764

*Elephantopus carolinianus* Rausch., MM 8021  
*Elephantopus nudatus* A. Gray, LBSH 34182a; LB 35103  
*Elephantopus tomentosus* L., MM 8011; SJ 14420; LBRH 33885;  
 LBJL 34040  
*Erechtites hieraciifolia* (L.) Raf., MM 8070  
*Erigeron annuus* (L.) C.P. Person, LB 34988  
*Erigeron philadelphicus* L., WP 122; LB 34294  
*Erigeron strigosus* Muhl. ex Willd., SJ 14205; LBJL 34001  
*Erigeron tenuis* Torr. & A. Gray, WP 081  
*Eupatorium capillifolium* (Lam.) Small, LBRH 33884  
*Eupatorium lancifolium* (Torr. & A. Gray) Small, SEWP 220; LBSH  
 33828; LB 35004  
*Eupatorium perfoliatum* L., LBSM 33765  
*Eupatorium x pinnatifidum* Elliott, WRC 12489; LBRH 34051;  
 LB 35158  
*Eupatorium rotundifolium* L. var. *rotundifolium*, MM 8017; SJ  
 14500; LBSH 33827  
*Eupatorium semiserratum* DC., LBSM 33757a; LBRH 33909; LBJL  
 34023; LBSH 34188  
*Eupatorium serotinum* Michx., LBSM 33718a; LB 34217a  
*Euthamia leptocepala* (Torr. & A. Gray) Greene, LB 34519  
 \**Facelis retusa* (Lam.) Sch.-Bip., LB 34615  
*Gaillardia pulchella* Foug., SEWP 197; LB 35100  
*Gamochaeta antillana* (Urb.) Anderb., LB 34306  
 \**Gamochaeta coarctata* (Willd.) Kerguelen, SEWP 456  
*Gamochaeta purpurea* (L.) Cabrera, SJ 14221; LBSH 34411;  
 LB 34540  
*Gamochaeta pennsylvanica* (Willd.) Cabrera, LB 34306a  
*Helenium amarum* (Raf.) Rock var. *amarum*, WP 160  
*Helenium flexuosum* Raf., LB 34619  
*Helianthus angustifolius* L., SJ 14378; LB 34220  
*Heterotheca subaxillaris* (Lam.) Britton & Rusby, LBSH 34086  
*Hieracium gronovii* L., GW 2954; LBRH 33906  
*Hymenopappus artemisiifolius* DC., SJ 14281  
 \**Hypochaeris microcephala* (Sch. Bip.) Cabrera, LB 34546  
 +*Iva asperifolia* Less. var. *angustifolia* (Nutt. ex DC.) B.L. Turner,  
 SEWP 468; LBJL 33997  
*Iva annua* L., SEWP 467; LBJL 34009  
*Krigia cespitosa* (Raf.) K.L. Chambers var. *cespitosa*, LB 34550  
*Krigia virginica* (L.) Willd., WP 125  
*Krigia wrightii* (A. Gray) K.L. Chambers ex K.J. Kim, LB 34314;  
 LBSH 34396 (J)  
*Lactuca canadensis* L., LBRH 33891  
*Lactuca floridana* (L.) Gaertn., SEWP 309  
*Liatris acidota* Engelm. & A. Gray, SJ 14396  
*Liatris elegans* (Walter) Michx. var. *elegans*, SEWP 280; LB  
 35005  
*Liatris squarrosa* (L.) Michx. var. *glabrata* (Rydb.) Gaiser, GW  
 3507, 2975; LBSH 34928, LB 34993  
 +*Liatris squarrosa* (L.) Michx. var. *squarrosa*, LBSH 34928; LB  
 34993, 35006  
*Mikania scandens* (L.) Willd. LBSM 33741  
*Packera obovata* (Michx. ex Willd.) Weber & Á. Löve, GW 3323;  
 LB 34278  
*Pityopsis graminifolia* (Michx.) Nutt. SEWP 193; LBSH 34180  
*Pluchea camphorata* (L.) DC., LBSM 33762  
*Pluchea foetida* (L.) DC., MM 8030; SJ 14384; LBJL 34033

+\**Pseudognaphalium luteoalbum* (L.) Hillard & B.L. Burt, LB 34299

*Pseudognaphalium obtusifolium* (L.) Hillard & Burt, LB 34240,35022

*Pyrrhopappus carolinianus* (Walter) DC., SJ 14282; GW 2913

*Pyrrhopappus pauciflorus* DC., LB 34578

*Rudbeckia hirta* L., SJ 14217; LB 35098

*Silphium asteriscus* L. var. *asteriscus*, LB 35073

*Smallanthus uvedalia* (L.) Mack., SEWP 315; LBRH 33894

*Solidago altissima* L., LBRH 34058

*Solidago nitida* Torr. & A. Gray, SJ 14361; LB 35070

*Solidago odora* Aiton, SEWP 279

*Solidago rugosa* Mill. var. *asper* (Aiton) Fernald, SEWP 304, 297; LBSM 33752; LBRH 34049

*Solidago stricta* Aiton subsp. *stricta*, SEWP 465; LBSH 34186

\**Soliva anthemifolia* Kunth, SJ 14142; LB 34304; LBRH 34642

\**Soliva sessilis* Ruiz & Pavon, LB 34534

\**Sonchus asper* (L.) Hill, LBRH 34641

\**Sonchus oleraceus* L., LBSM 33753; LB 34576

+*Symphytotrichum divaricatum* (Nutt.) G.L. Nesom, LBJL 34042; LBSH 34102; LB 34216

*Symphytotrichum dumosum* (L.) G.L. Nesom, LBSH 34190; LB 34212, 34215

*Symphytotrichum lateriflorum* (L.) Á. Löve & D. Löve, LB 34222, 34605, 35116, 35154

*Symphytotrichum racemosum* (Elliott) G.L. Nesom, WP 135; LBSH 34166

*Tetragonatheca ludoviciana* (Torr. & A. Gray) A. Gray ex Hall, SJ 14470

*Verbesina virginica* L., LBRH 34053

+*Vernonia gigantea* (Walter) Trel. ex Banner & Coville, LBSM 33768; LBRH 33887

*Vernonia missurica* Raf., SJ 26102; LBSH 33842

*Vernonia texana* (A. Gray) Small, LBSH 33825; LB 34992, 35003

\**Youngia japonica* (L.) DC., WP 108; LB 34281

*Xanthium strumarium* L., LBSH 34964

### Balsaminaceae

*Impatiens capensis* Meerb., PR s.n.; SJ 14144

### Berberidaceae

*Podophyllum peltatum* L., SE 4001

### Betulaceae

*Betula nigra* L., LBSH 34079

*Carpinus caroliniana* Walter, LBSM 33718; LBSH 34079a; LB 34556

*Ostrya virginiana* (Mill.) K. Koch, SJ 14131; LBRH 34061

### Bignoniaceae

*Bignonia capreolata* L., WP 072

*Campsis radicans* (L.) Seem. ex Bureau, LBSH 33833

### Blechnaceae

*Woodwardia areolata* (L.) T. Moore, SJ 14283; LBJL 34034

*Woodwardia virginica* (L.) J.E. Smith, SEWP 377; LBSH 34410

### Boraginaceae

\**Heliotropium indicum* L., LBSH 34965

*Heliotropium procumbens* Mill., SJ 14455; LB 34343

*Myosotis macrosperma* Engelm., LBSH 34402 (J)

### Brassicaceae

\**Cardamine flexuosa* With. subsp. *debilis* O.E. Schultz. D. Don, LB 34312

*Lepidium virginicum* L., SJ 14208

*Rorippa palustris* Besser, LB 34302

*Rorippa sessiliflora* (Nutt.) Hitchc., LB 34313; LBSH 34392 (J)

### Bromeliaceae

*Tillandsia usneoides* (L.) L., SJ 14206; LB 34261

### Buddlejaceae

 (see Tetrachondraceae for *Polypremum*)

### Burmanniaceae

*Apteria aphylla* (Nutt.) Barnhart ex Small, SJ 14181a

### Cactaceae

*Opuntia humifusa* (Raf.) Raf., LBSH 33834a; LB 34611

### Campanulaceae

*Lobelia appendiculata* A. DC., LB 34541

*Lobelia cardinalis* L., LBSH 34174

*Lobelia flaccidifolia* Small, SJ 14397

*Lobelia puberula* Michx., SEWP 296; LBRH 34047

*Triodanis biflora* Greene, LBSH 34398 (J), 34650 (J); LB 34539

*Triodanis perfoliata* (L.) Nieuwl., GW 3234

\**Wahlenbergia marginata* (Thunb.) A. DC., CL s.n., LBSH 33839; LB 34292

### Cannabaceae

*Celtis laevigata* Willd., LBSH 34406 (J)

### Caprifoliaceae

 (see Adoxaceae for *Sambucus* and *Viburnum*)

\**Lonicera japonica* Thunb., LBSM 33770

### Caryophyllaceae

\**Cerastium glomeratum* Thuill., LB 34285

*Silene antirrhina* L., LBRH 34635

### Chenopodiaceae

 (see Amaranthaceae for *Dysphanis*)

### Cistaceae

*Helianthemum carolinianum* (Walter) Michx., LB 34288

*Helianthemum georgianum* Chapm., WP 167; LBSH 33837, 34199

*Lechea mucronata* Raf., SJ 14483, 14189

+*Lechea minor* L., LB 34601, 35011 (SBSC); LBSH 34929

### Cleomaceae

\**Cleome hassleriana* Chodat, GW 188

### Clethraceae

*Clethra alnifolia* L., LB 19220; SJ 14472, 14431; LBJL 34029

### Commelinaceae

*Commelina erecta* L., SJ 14137, 14185; LB 34604, 34982

*Commelina virginica* L., SJ 14313, 14524; LB 35079

*Tradescantia ohiensis* Raf., LB 34315; LBSH 34397 (J)

*Tradescantia reverchonii* Bush, SJ 14186

### Convolvulaceae

*Cuscuta compacta* Choisy, SEWP 302

*Cuscuta gronovii* Willd., LB 34207

*Dichondra carolinensis* Michx., LBSH 34412

*Ipomoea cordatotriloba* Dennst., SEWP 277; LBSM 33777

*Ipomoea lacunosa* L., LB 35090, 35113

*Ipomoea pandurata* (L.) G. Mey., LBSH 34943

*Jacquemontia tamnifolia* (L.) Griseb., SEWP 304

**Cornaceae** (see Nyssaceae for the genus *Nyssa*)

*Cornus florida* L., SEWP 3005; LB 34289; WP 083 (SBSC)

*Cornus foemina* Mill., LB 34231

**Crassulaceae** (see Penthoraceae for the genus *Penthorum*)

**Cucurbitaceae**

*Cayaponia quinqueloba* (Raf.) Shoiners, SJ 14522; LBSH 34710

\**Citrullus vulgaris* Schrad. ex Eckl. & Zeyh., LB 35161

\**Cucumis melo* L., LB 35114

*Melothria pendula* L., LBSM 33736

**Cupressaceae**

*Juniperus virginiana* L. var. *virginiana*, LBJL 34005

*Taxodium distichum* (L.) Rich. var. *distichum*, LBSH 33845

**Cuscutaceae** (see Convolvulaceae for the genus *Cuscuta*)

**Cyperaceae**

*Bulbostylis barbata* (Rottb.) Clarke, SJ 14428

*Bulbostylis ciliatifolia* (Elliott.) Fernald var. *coarctata* (Elliott) Kral, SJ 14129, 14469; LBRH 33902; LB 35036

*Carex abscondita* Mack., SJ 14127; LB 34579; LBSH 34648 (J)

*Carex atlantica* L.H. Bailey subsp. *capillacea* (L. H. Bailey) Reznicek, LBJL 33995

*Carex brevior* (Dewey) Mack. ex Lunell, LBSH 34395 (J); LB 34528

*Carex cherokeensis* Schwein., LB 34978

*Carex complanata* Torr. & Hook., LBSH 34413a

*Carex debilis* Michx., LB 34545

*Carex digitalis* Schkuhr ex Willd. var. *floridana* (L.H. Bailey) Naczi & Bryson, SJ 14595

*Carex flaccosperma* Dewey, LBSH 34394 (J); LB 34549

*Carex frankii* Kunth, LB 34581

*Carex gigantea* Rudge, SJ 14147

*Carex glaucescens* Elliott, LBSH 34037

*Carex jorii* L. H. Bailey, NIX 15988; SJ 14473; LBSM 33756

*Carex leptalea* Wahlenb. subsp. *harperi* (Fernald) W. Stone, SJ 14145; LBJL 33996

*Carex nigromarginata* Schwein var. *floridana* (Schwein.) Kük., SJ 13708; LB 34283

*Carex reniformis* (L.H. Bailey) Small, LB 34536, 34586

*Carex tribuloides* Wahlenb. var. *sangamonensis* Clokey, SJ 14136

*Carex verrucosa* Muhl., SEWP 376, 375

*Cladium jamaicense* Crantz, LBSH 34667

*Cyperus acuminatus* Torr. & Hook. ex Torr., LB34602

*Cyperus compressus* L., SJ 14486

*Cyperus croceus* Vahl, SJ 14487, 145124; LBJL 340342; LBRH 34637

*Cyperus elegans* L., SEWP 463; LB 35101

\**Cyperus entrerianus* Bockeler, LBSM 33743

*Cyperus erythrorhizos* Muhl., SJ 14440, 14457; LB 35085, 35089

\**Cyperus esculentus* L., SJ 14441; LBSH 34163

*Cyperus flavescens* L., LBRH 34059

*Cyperus grayoides* Mohlenbr., SJ 14479

*Cyperus haspan* L., SEWP 369; LBSM 33760

*Cyperus hystricinus* Fernald, SJ 14471, 14491; LB 34221

\**Cyperus iria* L., SJ 14494

*Cyperus odoratus* Vahl, SJ 14442; LBSH 34078, 34163a, 34970

*Cyperus polystachyos* Rottb., SJ 14443; LBSH 34162

*Cyperus pseudovegetus* Steud., SJ 14344; LBSM 33748; LBSH 34960

*Cyperus retroflexus* Buckley, SJ 14490; LBSH 34958; LB 35016

*Cyperus retrorsus* Buckley, SJ 14330; LBSM 33740; LBJL 34030

*Cyperus squarrosus* L., SJ 14451a

*Cyperus strigosus* L., SJ 14379

*Cyperus surinamensis* Rottb., SJ 14444; LBSH 34100; LB 35112

*Cyperus virens* Michx., SJ 14316

*Eleocharis microcarpa* Torr., MM 8022; LBSH 33831

*Eleocharis montana* (Kunth) Roem. & Schult., LBSH 34183

*Eleocharis obtusa* (Willd.) Schult., SJ 14314

*Eleocharis tuberculosa* (Michx.) Romer & Schult., SEWP 374

*Fimbristylis autumnalis* (L.) Roem. & Schult., SJ 14446

*Fimbristylis dichotoma* (L.) Vahl, SJ 14365

\**Fimbristylis miliacea* (L.) Vahl, NIX 16005 (SBSC); LB 35031

*Fimbristylis vahlilii* (Lam.) Link, DK 1614; LBSH 34962

*Fuirena breviseta* (Coville) Coville, SJ 14395

*Kyllinga pumila* (Torr.) Spreng., SEWP 312; LBSH 33820; LB 34563, 35030

*Rhynchospora caduca* Elliott, LBRH 34630; LBSH 34664

*Rhynchospora colorata* (L.) H. Pfeiff., LB 34660

*Rhynchospora corniculata* (Lam.) A. Gray; MM 8025, SJ 14474, 14318, 14149

*Rhynchospora eliottii* Elliott, SJ 14390

*Rhynchospora globularis* (Chapm.) Small var. *globularis*, SEWP 446; LB 34599

*Rhynchospora glomerata* (L.) Vahl, SJ 14405, 14355; LBJL 34043; LBSH 34938

*Rhynchospora grayi* Kunth, SJ 14480a, 14480

*Rhynchospora inexpansa* (Michx.) Vahl, SJ 14404; LBSM 33759

*Rhynchospora latifolia* (Bald. ex Elliott) Thomas, SJ 14391

*Rhynchospora mixta* Britton, LB 19218b, 19221; SJ 14150

*Rhynchospora recognita* (Gale) Kral, LBRH 34644; LBSH 34665

*Schoenoplectus californicus* (Meyer) Sojak, SJ 14153

*Scirpus cyperinus* L., LBJL 34000

+*Scirpus divaricatus* Elliott, GW 3495; SEWP 320; LBSM 33766; LB 34980

*Scleria ciliata* Michx. var. *ciliata*, LB 34600

*Scleria oligantha* Michx., LB 34552

*Scleria pauciflora* Muhl. ex Willd., SEWP 294

*Scleria triglomerata* Michx., SJ 14357

**Cyrtaceae**

*Cyrtilla racemiflora* L., SJ 14230

**Dennstaedtiaceae**

*Pteridium aquilinum* (L.) Kuhn var. *pseudocaudatum* (Clute) Heller, GW 2953; LBSH 34179

**Dioscoreaceae**

*Dioscorea villosa* L., SEWP 314



**Droseraceae**

*Drosera brevifolia* Pursh, LB 34596  
*Drosera capillaris* Poir., SJ 14398

**Dryopteridaceae** (see Woodsiaceae for *Athyrium* and Onocleaceae for *Onoclea*)

*Dryopteris ludoviciana* (Kunze) Small, GW 678; SJ 14285; LBJL 34021  
*Polystichum acrostichoides* (Michx.) Schott, LBSM 33751

**Ebenaceae**

*Diospyros virginiana* L., LBSM 33725

**Equisetaceae**

*Equisetum hyemale* L., GW 3352

**Ericaceae**

*Lyonia ligustrina* (L.) DC., SJ 14562  
*Rhododendron canescens* (Michx.) Sweet, SJ 13709; LB 34282  
*Rhododendron viscosum* (L.) Torr., SJ 14289  
*Vaccinium arboreum* Marsh., SJ 14503  
*Vaccinium corymbosum* L., SJ 14358  
*Vaccinium elliotii* Chapm., LB 34296  
*Vaccinium stamineum* L., SEWP 192

**Euphorbiaceae** (see Phyllanthaceae for *Phyllanthus*)

*Acalypha gracilens* A. Gray var. *gracilens*, SJ 14413; LB 34991  
*Acalypha virginica* L., LBSH 34167; LB 34233  
 \**Caperonia palustris* A. St-Hil., LB 35109  
*Chamaesyce humistrata* (Engelm. ex A. Gray) Small, LBRH 33892  
*Chamaesyce maculata* (L.) Small, LBSH 34192, 34949, 34969  
*Chamaesyce nutans* (Lag.) Small, GW 2951; LB 35062  
*Chamaesyce serpens* (Kunth) Small, LBJL 34016; LBSH 34662  
*Cnidioscolus texanus* (Muell. Arg.) Small, LB 34229  
*Croton capitatus* Michx., MM 8015; SJ 14482  
*Croton glandulosus* L. var. *glandulosus*, SEWP 286; LBSH 34932  
*Croton michauxii* Webster, SJ 14415; LBSH 33838  
*Croton monanthogynus* Michx., SEWP 471; LBJL 34008  
*Croton willdenowii* Webster, SJ 14478; LB 34238, 35029  
*Euphorbia corollata* L., MM 8033; SJ 14220; LB 35152  
 \**Manihot grahamii* Hook., GW 446  
*Sebastiania fruticosa* (Bartr.) Fernald, SJ 14126  
*Stillingia sylvatica* L., SJ 14495  
*Tragia smallii* Shinnery, LB 34591  
*Tragia urens* L., SJ 14195; LB 35076  
*Tragia urticifolia* Michx., LBRH 33883; LB 35188  
 \**Triadica sebiferum* (L.) Small, LBSH 33832

**Fabaceae**  
 \**Aeschynomene indica* L., LB 34209, 35111  
 \**Albizia julibrissin* Durazzini, LBSM 33718  
*Amorpha fruticosa* L., LBSH 338411; LBRH 34640; LB 35169  
*Astragalus leptocarpus* Torr. & A. Gray, LB 34297  
*Centrosema virginianum* (L.) Benth., SJ 14184; LBRH 33897  
*Cercis canadensis* L. var. *canadensis*, LB 34561  
*Chamaecrista fasciculata* (Michx.) Greene, SJ 14187  
*Chamaecrista nictitans* (L.) Moench., LBSH 33850  
*Crotalaria mariana* L., SJ 14424; LBSM 33727

*Crotalaria sagittalis* L., SJ 14212, 14483a  
*Dalea phleoides* (Torr. & A. Gray) Shinnery var. *phleoides*, GW 2919  
*Dalea villosa* (Nutt.) K. Spreng. var. *grisea* (Torr. & A. Gray) Barneby, SJ 14209  
*Desmanthus illinoensis* (Michx.) B. L. Rob. & Fernald, SJ 14427  
*Desmodium ciliare* (Willd.) DC., SJ 13967; GW 3313b; LBSH, 33824, 34089  
 +*Desmodium fernaldii* B.G. Schub., LB 35021  
*Desmodium glabellum* (Michx.) DC., LB 35061  
*Desmodium laevigatum* (Nutt.) DC., LBSH 33840, 34927; LB 35083  
*Desmodium lineatum* DC., LB 35063  
*Desmodium obtusum* (Muhl. ex Willd.) DC., LBSH 34090  
*Desmodium paniculatum* (L.) DC., GW 3416, 2957; LBSM 33735, 33772  
 +*Desmodium viridiflorum* (L.) DC., LBSH 33852; LB 35033; LBRH 34065; PR s.n. (T)  
*Erythrina herbacea* L., WP 159  
 +*Galactia regularis* (L.) Britton, Sterns, & Poggenb., SJ 14416; LBRH 33901; SEWP 454; LBJL 34017  
*Gleditsia aquatica* Marshall, SJ 14448; LBSH 34400 (J)  
*Glottidium vesicarium* (Jacq.) Harper, SEWP 300; LB 34076  
 \**Indigofera suffruticosa* Mill., LBSH 34725  
 \**Kummerowia striata* (Thunb. ex Murray) Schindl., LB 34264  
 +*Lackeya multiflora* (Torr. & A. Gray) Fortuna, L.P. Queiroz & C.P. Lewis, LBSM 33730; LB 34590; LBRH 34633  
*Lespedeza hirta* (L.) Hornem. subsp. *hirta*, SJ 14199, 14475; LBSH 33836; LB 34236  
*Lespedeza repens* (L.) Bart., LBSM 33737  
 \**Medicago lupulina* L., WP 084  
*Mimosa hystericina* (Small) Turner, LB 34543  
*Mimosa strigillosa* Torr. & A. Gray, SJ 14409  
*Neptunia pubescens* Benth., LBSH 34661  
 \**Pueraria montana* (Lour.) Merrill var. *lobata* (Willd.) Van der Maesen & Almeida, SJ 14335  
*Rhynchosia difformis* (Elliott) DC., SJ 14498; LBSH 34722  
*Rhynchosia latifolia* Nutt. ex Torr. & A. Gray, SJ 14123; LB 35018  
*Rhynchosia reniformis* DC., SEWP 285; LB 34557  
*Senna occidentalis* (L.) Link, WP 153  
*Sesbania drummondii* (Rydb.) Cory, LBSH 33846  
*Sesbania herbacea* (Mill.) McVaugh, LBRH 33910  
*Strophostyles helvola* (L.) Elliott, LBSH 34076a  
*Strophostyles leiosperma* (Torr. & A. Gray) Piper, LBSH 34716  
*Strophostyles umbellata* (Willd.) Britton, MM 8037; SEWP 301; GW 3417; LBSH 34935  
*Stylosanthes biflora* (L.) Britton, Sterns & Poggenb., MM 8035; SJ 14218; LB 35008  
*Tephrosia onobrychoides* Nutt., SJ 14383  
*Tephrosia virginiana* (L.) Pers., SJ 14222; LB 34594  
 \**Trifolium campestre* Schreb., LB 34298, 34574  
 \**Trifolium repens* L., WP 123  
*Vicia ludoviciana* Nutt. subsp. *ludoviciana*, LB 34295  
*Vicia minutiflora* A. Dietr., LB 34256, 34585; LBSH 34405 (J)  
*Wisteria frutescens* (L.) Poir., SJ 14568, 14343

**Fagaceae**

- Castanea pumila* (L.) Mill., WP 140; SJ 14329; LB 34989  
*Fagus grandifolia* Ehrh., MM 8036; SJ 13704; LBJL 33024  
*Quercus alba* L., WP 141; LBRH 34052  
*Quercus falcata* Michx., SEWP 199  
*Quercus hemisphaerica* W. Bartram ex Willd., SJ 14331; LBSM 33719  
*Quercus incana* W. Bartram, SJ 14468; LB 34593  
*Quercus laurifolia* Michx., SEWP 319; LBJL 34003; LBSH 34092  
*Quercus lyrata* Walter, WP 151; LBSM 33722  
*Quercus margaretta* (Ashe) Ashe, SJ 14139; LBSH 34073  
*Quercus michauxii* Nutt., WP 146  
*Quercus nigra* L., WP 152  
*Quercus velutina* Lam., LB 34243  
*Quercus virginiana* Mill., SJ 14504, 14327

**Gelsemiaceae**

- Gelsemium sempervirens* (L.) Aiton f., SEWP 3015

**Gentianaceae**

- \**Centaurium pulchellum* (Sw.) Druce, WP 075; LB 34562  
*Sabatia angularis* (L.) Pursh, SJ 14388  
*Sabatia campestris* Nutt., LB 34559

**Geraniaceae**

- Geranium carolinianum* L., WP 079

**Grossulariaceae** (see *Iteaceae* for *Itea*)**Haloragaceae**

- Proserpinaca palustris* L., SJ 14181

**Hamamelidaceae** (see *Altingiaceae* for *Liquidambar*)

- Hamamelis virginiana* L., SJ 14433; LB 35013

**Hydrocharitaceae**

- Limnobium spongia* (Bosc.) Rich. ex Steud., LB 35170

**Hydroleaceae**

- Hydrolea ovata* Nutt., MM 8014; SJ 14374  
*Hydrolea uniflora* Raf., LB 34981

**Hydrophyllaceae** (see *Hydroleaceae*)**Hypericaceae**

- Hypericum densiflorum* Pursh, SJ 14438  
*Hypericum drummondii* (Grev. & Hook.) Torr. & A. Gray, LBRH 33881; LB 35007a  
*Hypericum galioides* Lam., SJ 14375; LBSH 34936  
*Hypericum gentianoides* (L.) Britton, Sterns & Poggenb., LBSH 33848; LB 35007  
*Hypericum gymnanthum* Engelm. & A. Gray, SJ 14214; GW 160  
*Hypericum hypericoides* (L.) Crantz, MM 8027  
*Hypericum mutilum* L., LBSM 33754  
*Triadenum walteri* (J. G. Gmel.) Gleason, SJ 14403  
*Triadenum tubulosum* (Walter) Gleason, GW 2993; LBSH 34646 (J); LB 34985, 35168

**Hypoxidaceae**

- Hypoxis curtisii* Rose, SJ 14345; LB 34219  
*Hypoxis wrightii* (Baker) Brackett, WP 073; LB 35077

**Iridaceae**

- Alphia drummondii* (Graham) Foster, LBSM 33771; SJ 14188  
*Sisyrinchium atlanticum* E.P. Bicknell, LB 34566  
*Sisyrinchium rosulatum* E.P. Bicknell, GW 1035b; LB 34535

**Iteaceae**

- Itea virginica* L., WP 137

**Juglandaceae**

- Carya aquatica* (Michx. f.) Nutt., LBSH 33844; LBRH 34625; WP 174 (J) at SBSC  
*Carya cordiformis* (Wang.) K. Koch, GW 2950; LBSH 34093, 34649 (J); LB 34580  
*Carya glabra* (Mill.) Sweet, LBSH 34072, 34419  
*Carya texana* Buckley, LBRH 34046  
*Carya tomentosa* (Lam.) Nutt., SJ 14300; LBSH 33817 LBRH 34639

**Juncaceae**

- Juncus acuminatus* Michx., LBSM 33746; LB 34565; LBRH 34632  
 \**Juncus capitatus* Weigel, WRC 12488  
*Juncus coriaceus* Mack., SJ 14356  
*Juncus dichotomus* Elliott, LBSH 34663  
*Juncus diffusissimus* Buckley, LBSH 34164, 34707  
*Juncus effusus* L., WP 106  
*Juncus marginatus* Rostk., LB 34609  
*Juncus repens* Michx., LBSM 33757  
*Juncus tenuis* Willd., LB 34308  
*Juncus validus* Coville, SEWP 464

**Lamiaceae**

- Callicarpa americana* L., MM 8031; SJ 141  
*Hyptis alata* (Raf.) Shinnars, MM 8028; SJ 14426  
*Lycopus rubellus* Moench., MM 8000; SEWP 310; LB 35105  
*Lycopus virginicus* L., LBSH 34189, 34173  
*Monarda punctata* L. var. *lasiodonta* A. Gray, SJ 14459a; LBRH 33896  
 \**Perilla frutescens* (L.) Britton, LBSM 33775  
*Prunella vulgaris* L., SJ 14225  
*Pycnanthemum albescens* Torr. & A. Gray, LBSM 33774  
*Pycnanthemum tenuifolium* Schrad., WP 166; SJ 14227, 14351; LBSH 34934  
*Salvia lyrata* L., LBSM 33773; LBJL 34020; LB 34533  
*Scutellaria elliptica* Muhl., LB 34277, 34553  
*Scutellaria integrifolia* L., SEWP 308; LB 34608  
*Teucrium canadense* L., SJ 14138; LBSH 34649 (J)  
*Trichostema dichotomum* L., LBRH 34064  
 \**Vitex negundo* L. var. *intermedia* (P'ei) Moldenke, SJ 14350

**Lauraceae**

- \**Cinnamomum camphora* (L.) J. Presl, LB 35182  
*Persea borbonia* (L.) Spreng., LBRH 33898  
*Persea palustris* (Raf.) Sarg., WP 158; LBJL 34041; LB 35107  
*Sassafras albidum* (Nutt.) Nees, SEWP 208

**Lentibulariaceae**

- Utricularia radiata* Small, SJ 14429

**Linaceae**

- Linum medium* (Planch.) Britton var. *texanum* (Planch.) Fernald SJ 14362  
*Linum striatum* Walter, SJ 14211



**Linderniaceae**

\**Lindernia crustacea* (L.) F. von Muell., LBSH 33821  
*Lindernia dubia* (L.) Penn., SJ 14342, 14449; LBSH 33821

**Loganiaceae** (see Gelsemiaceae for *Gelsemium*)

*Mitreola petiolata* (J. F. Gmel.) Torr. & A. Gray, MM 8016; SJ 14224; LBSM 33764

**Lycopodiaceae**

*Lycopodiella appressa* (Chapm.) Cranfill, LB 34279

**Lygodiaceae**

\**Lygodium japonicum* (Thunb. ex Murray) Sw., MM 8019; WP 163

**Lythraceae**

*Ammannia x coccinea* Rottb., SJ 14452  
 \**Cuphea carthagenensis* (Jacq.) J. F. Macbr., WRC 12487; LBRH 33911  
*Lythrum alatum* Pursh var. *lanceolatum* (Elliott) A. Gray, LBSH 34717  
*Rotala ramosior* (L.) Koehne, LBRH 33912; LB 35119

**Magnoliaceae**

*Magnolia grandiflora* L., SEWP 200  
*Magnolia virginiana* L., LBSM 33744; SEWP 214

**Malvaceae**

*Malvaviscus arboreus* Dill ex Cav. var. *drummondii* (Torr. & A. Gray) Schery, LB 35038  
*Modiola caroliniana* (L.) G. Don, LB 34531  
*Hibiscus laevis* All., SJ 14453; LBSH 34172  
*Hibiscus moscheutos* L., subsp. *lasiocarpus* (Cav.) O.J. Blanchard, SJ 14286  
*Sida rhombifolia* L., SJ 14400, 14517; LBSH 34169  
*Tilia americana* L., LBJL 34035; LB 34547

**Melastomataceae**

*Rhexia mariana* L. var. *mariana*, MM 8024; LBSM 33749; SJ 14410, 14338

**Meliaceae**

\**Melia azedarach* L., WP 157

**Molluginaceae**

\**Glinus radiatus* (Ruiz & Pav.) Rohrbach, SJ 14450; LB 35163  
 \**Mollugo verticillata* L., SJ 14407, 14519; LBSH 34957

**Moraceae**

*Morus rubra* L., SEWP 210

**Myricaceae**

*Morella carolinensis* Mill., SJ 13705; LB 35102  
*Morella cerifera* (L.) Small, WP 104; LB 34287

**Myrsinaceae**

\**Anagallis arvensis* L., WP 077  
*Lysimachia radicans* Hook., LBSM 33729; WRC 11354; LBSH 34654 (J)

**Nartheciaceae**

*Aletris aurea* Walter, LBSH 34715

**Nyssaceae**

*Nyssa aquatica* L., SEWP 380; LB 35037  
*Nyssa biflora* Walter, SEWP 325; LBJL 33998

*Nyssa sylvatica* Marsh., SEWP 324; LBJL 34038

**Oleaceae**

*Chionanthus virginicus* L., SJ 13713; LB 35012  
*Forestiera acuminata* (Michx.) Poir., LBSH 34081; SJ 13711  
*Fraxinus americana* L., LBSH 34177  
*Fraxinus caroliniana* Mill., SJ 14336; LBSM 33758; LB 35024, 35166  
*Fraxinus pennsylvanica* Marsh., SJ 14620  
 \**Ligustrum sinense* Lour., SEWP 205

**Onagraceae**

*Gaura longiflora* Spach, GW 2983; LBJL 34011  
*Ludwigia alternifolia* L., LBSM 33734; SJ 14461  
*Ludwigia decurrens* Walter, MM 8013; SJ 14464; LB 35032  
*Ludwigia glandulosa* Walter, LBSM 33748; LBSH 34718; SEWP 224; LB 35153  
*Ludwigia linearis* Walter, MM 8026  
*Ludwigia octovalvis* (Jacq.) P.H. Raven, SJ 14352; LBSH 34098  
*Ludwigia palustris* (L.) Elliott, WP 145  
*Ludwigia pilosa* Walter, SEWP 322; LBJL 34019, 34979  
*Oenothera biennis* L., LBRH 33895  
*Oenothera laciniata* Hill, WP 107  
*Oenothera speciosa* Nutt., LB 34560

**Onocleaceae**

*Onoclea sensibilis* L. var. *sensibilis*, LB 34208

**Ophioglossaceae**

*Botrychium biternatum* (Savogny) Underwood, GW 835

**Orchidaceae**

*Hexaletris spicata* (Walter) Barnhart, LB 19219 (SBSC); GW 3472,3483  
*Listeria australis* Lindl., GW 919  
*Spiranthes laciniata* (Small) Ames, SJ 14152  
*Spiranthes odorata* (Nutt.) Lindl., SEWP 391; LBSH 34170  
*Spiranthes praecox* (Walter) S. Watson, LB 34525

**Orobanchaceae**

*Epifagus virginiana* (L.) Bart., WP 130  
*Agalinis heterophylla* (Nutt.) Small ex Britton, SEWP 225  
*Agalinis purpurea* (L.) Penn., SEWP 281; LBSH 34198; LB 35099  
*Aureolaria flava* (L.) Farwell, LBSH 33829

**Osmundaceae**

*Osmunda cinnamomea* L., LBJL 34020  
*Osmunda regalis* L. var. *spectabilis* (Willd.) A. Gray, WP 110; LBSH 34945

**Oxalidaceae**

+*Oxalis dillenii* Jacq., SJ 14226  
 +\**Oxalis debilis* Kunth (DC.) Lourteig, WP 129  
*Oxalis violacea* L., Brown 35187

**Passifloraceae**

*Passiflora incarnata* L., LB 34974, 35183  
*Passiflora lutea* L., LBSM 33776; SJ 14328; LBRH 34627

**Penthoraceae**

*Penthorum sedoides* L., SJ 14401, LBSH 34956

**Phrymaceae**

*Mimulus alatus* Aiton, LBSH 34952

**Phyllanthaceae**

*Phyllanthus carolinensis* Walter, LBSM 33755

\**Phyllanthus urinaria* L., MM 8020

**Phytolaccaceae**

*Phytolacca americana* L., LBSM 33750

**Pinaceae**

*Pinus echinata* Mill., SEWP 194

\**Pinus elliottii* Engelm., LBSH 34088

*Pinus palustris* Mill., LB 34226

*Pinus taeda* L., MM 8029; LBSM 33745

**Plantaginaceae**

*Bacopa monnieri* (L.) Penn., GW 2938; LBJL 34013

*Gratiola brevifolia* Raf., LB 34564; LBSH 34940

*Mecardonia acuminata* (Walter) Small, MM 7972; SEWP 283

*Mecardonia procumbens* (Mill.) Small, WP 085

*Micranthemum umbrosum* (J.F. Gmel.) S.F. Blake, SJ 14326

*Nuttallanthus canadensis* (L.) D.A. Sutton, LB 34290

*Nuttallanthus texanus* (Scheele) D.A. Sutton, WP 128; GW 3331, 3332

\**Plantago major* L., LB 34266

*Plantago virginica* L., LBSH 34417; LB 34554

*Veronica peregrina* L. var. *peregrina*, LB 34305

*Scoparia dulcis* L., MM 8039; SEWP 440

**Platanaceae**

*Platanus occidentalis* L., LBSM 33778

**Poaceae**

*Agrostis hyemalis* (Walter) Britton, Sterns & Poggenb., LB 34613

*Agrostis perennans* (Walter) Tuck., LB 34214

*Andropogon glomeratus* (Walter) Britton, Sterns, & Poggenb., SEWP 448, 458, 367

*Andropogon ternarius* Michx., SEWP 453; LBSH 34178; LB 35074

*Andropogon virginicus* L., LBSH 34087

*Anthenantia texana* R. Kral, LBRH 34057a

*Anthenantia villosa* (Michx.) P. Beauv., SEWP 293; LBRH 34057b; LB 34225

*Aristida lanosa* Muhl. ex Elliott, LBSH 34077

*Aristida longespica* Poir. var. *geniculata* (Raf.) Fernald, LBRH 34056; LB 35155

*Aristida longespica* Poir. var. *longespica*, LBSH 34075

*Aristida purpurascens* Poir. var. *purpurascens*, SJ 14492; LBSH 34084; LB 35156

*Aristida purpurascens* Poir. var. *virgata* (Trin.) Allred, LBSH 34194

*Arundinaria gigantea* (Walter) Muhl., LB 34656 (J); PR s.n. (T); LB 35081

*Axonopus compressus* (Sw.) Beauv., LBSH 34933

*Axonopus fissifolius* (Raddi) Kuhl., LBSM 33738; LBSH 34401 (J); LB 35001

*Axonopus furcatus* (Flüggé) Hitchc., LBSH 34168

\**Bothriochloa bladhii* (Retz.) S.T. Blake, LB 35094

\**Bothriochloa ischaemum* (L.) Keng var. *songarica* (Fish.&Mey) Celarier & Harlan, SEWP 452

\**Briza minor* L., LBSH 34414; LB 34538

\**Bromus catharticus* Vahl, LB 34583

*Cenchrus spinifex* Cav., GW 2943

*Chasmanthium latifolium* (Michx.) H.O. Yates, LBSH 34657 (J)

*Chasmanthium laxum* (L.) H.O. Yates, SEWP 187

*Chasmanthium sessiliflorum* (Poir.) H.O. Yates, SJ 14309, 14521

\**Cynodon dactylon* (L.) Person, SEWP 457

\**Dactyloctenium aegyptium* (L.) P. Beauv., LB 35095

*Dichanthelium aciculare* (Desv. ex Poir.) Gould & C.A. Clark var. *aciculare*, LBRH 33903, LBSH 34930

*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *acuminatum*, SJ 14128; LBSH 34416; LB 34612, 34617

*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *densiflorum* (E.L. Rand & Redfield) Gould & C.A. Clark, LB 34260; LBSH 34953

*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *lindheimeri* (Nash) Gould & C.A. Clark, LB 34587a; LBRH 34638; LBSH 34709

*Dichanthelium acuminatum* (Sw.) Gould & C.A. Clark var. *longiligulatum* (Nash) Gould & C.A. Clark, LBSM 33726; LBSH 34655 (J)

*Dichanthelium bosicii* (Poir.) Gould & C.A. Clark, SJ 14402, 14301; LBRH 34050; LB 34990

*Dichanthelium commutatum* (Schult.) Gould, SJ 14308; LBSM 33724; LB 34259, 34522

*Dichanthelium dichotomum* (L.) Gould subsp. *dichotomum*, LBSH 34647 (J), 34719

*Dichanthelium dichotomum* (L.) Gould subsp. *nitidum* (Lam.) Freckman & Lelong, LB 35014

*Dichanthelium ensifolium* (Baldwin ex Elliott) Gould subsp. *ensifolium*, LBSH 34939

*Dichanthelium laxiflorum* (Lam.) Gould, LBSM 33742

*Dichanthelium oligosanthes* (Schult.) Gould var. *oligosanthes*, LBRH 33904; LBSH 34415, LB 34603

*Dichanthelium oligosanthes* (Schult.) Gould var. *scribnerianum* (Nash) Gould, LB 34526; LBSH 34726

*Dichanthelium ovale* (Elliott) Gould subsp. *villosissimum* (Nash) Freckmann & Lelong, LB 34598; LBSH 34724

*Dichanthelium polyanthes* Mohlenb., SJ 14223

*Dichanthelium scoparium* (Lam.) Gould, LB 34607

*Dichanthelium sphaerocarpon* (Elliott) Gould, LBSH 34399 (J); LB 34592

*Dichanthelium tenue* (Muhl.) Freckman & Lelong, LBSH 33823; LB 34555, 34598a

*Dichanthium annulatum* (Forsk.) Stapf, LB 35185

*Digitaria bicornis* (Lam.) Roem. & Schult., LBSH 34099; LB 35160

*Digitaria ciliaris* (Retz.) Koel., LBSM 33739, 34948; LBRH 34055; LBSH 34961

\**Digitaria ischaemum* (Schreb.) Muhl., LBSM 33739a; LBSH 34103a; LB 34239, 35020

*Digitaria villosa* Walter, LBRH 34063; LBSH 34085

\**Digitaria violascens* Link, LBSH 34176

\**Echinochloa colonum* (L.) Link, SJ 14493

\**Echinochloa crus-galli* (L.) Beauv., GW 3035

*Echinochloa walteri* (Pursh) Heller, SJ 14439; LBSH 34074; LB 351135

- \**Eleusine indica* (L.) Gaertn., SJ 14489; LBSH 34094  
*Elymus virginicus* L., LB 34584  
*Eragrostis elliottii* S. Watson, LB 35108  
*Eragrostis hypnoides* (Lam.) Britton, Sterns & Poggenb. SJ14446; LBSH 34972  
 \**Eragrostis japonica* (Thunb.) Trin., SJ 14462, 14458; LBSH 34103, 34867  
*Eragrostis refracta* (Muhl.) Scribn., LBSH 34197, 34971; LB 34223  
*Eragrostis secundiflora* J. Presl subsp. *oxylepis* (Torr.) S.D. Koch, SJ 14465; LBSH 34076  
*Eragrostis spectabilis* (Pursh) Steud., LBSH 34105, 34175; LB 35015  
 \**Eremochloa ophiuroides* (Munro) Hack., SEWP 466; SJ 14364; LB 35064  
*Eustachys petraea* (Sw.) Desv., SEWP 451  
 +*Glyceria striata* (Lam.) Hitchc., LB 34544  
*Gymnopogon ambiguus* (Michx.) Britton, Sterns, & Poggenb., SEWP 287  
*Leersia lenticularis* Michx., SEWP 386; LB 35082  
*Leersia virginica* Willd., LB 34206  
 \**Lolium perenne* L., LB 34537  
*Muhlenbergia capillaris* (Lam.) Trin., LB 35067  
*Muhlenbergia schreberi* J.G. Gmel., LB 35186  
*Oplismenus hirtellus* (L.) P. Beauv. subsp. *setarius* (Lam.) Mez ex Ekman, SJ 14435; LB 35017  
*Panicum anceps* Michx., LBSH 33819; SJ 14133, 14347  
*Panicum brachyanthum* Steud., SEWP 288  
*Panicum dichotomiflorum* Michx., SJ 14291; LBSH 34161  
*Panicum gymnocarpon* Elliott, SJ 14354; LB 35080  
*Panicum rigidulum* Bosc. ex Nees, SJ 14346, 14324; LB 35086  
*Panicum verrucosum* Muhl., LBRH 34062; LBSH 34196  
 \**Paspalum dilatatum* Poir., LBSH 34721  
*Paspalum distichum* L., LB 35093  
*Paspalum floridanum* Michx., LBJL 34002  
*Paspalum laeve* Michx., LBSH 34932  
*Paspalum langei* (E. Fourn.) Nash, LB 34588, 35002; LBRH 34631  
*Paspalum lividum* Trin., LBSH 34165  
 \**Paspalum notatum* Flügge, LBSH 33822  
*Paspalum minus* E. Fourn., LBSH 34182  
*Paspalum plicatulum* Michx., GW 2944; LB 34542  
*Paspalum repens* P.J. Bergius, LB 34987, 35087  
*Paspalum setaceum* Michx., SJ 14520  
 \**Paspalum urvillei* Steud., LBSH 33818  
*Phalaris angusta* Nees ex Trin, LB 34263  
 \**Polypogon monspeliensis* (L.) Desf., LBSH 34666  
 \**Phyllostachys aurea* Riv., SJ 14437  
*Piptochaetium avenaceum* (L.) Parodi, SJ 14207  
 \**Poa annua* L., LB 34255  
*Poa autumnalis* Muhl. ex Elliott, LB 34280  
*Saccharum brevibarbe* (Michx.) Pers. var. *brevibarbe*, EK 950  
*Saccharum baldwinii* Spreng., SEWP 371; LB 35028  
*Saccharum giganteum* (Walter) Pers., LBSH 34187  
*Sacciolepis striata* (L.) Nash, SJ 14463  
*Schizachyrium scoparium* (Michx.) Nash var. *divergens* (Hack.) Gould, SEWP 292; GW 3208; LB 35066  
 \**Sorghum halepense* (L.) Pers., LB 34213  
*Sphenopholis longiflora* (Vasey) Hitchc., LBSH 34404 (J); LB 34651 (J)  
*Sphenopholis obtusata* (Michx.) Scribn., LB 34524  
*Sporobolus compositus* (Poir.) Merr. var. *macer* (Trin.) Kartesz & Gandhi, SEWP 447  
*Sporobolus clandestinus* (Biehler) Hitchc., LB 35010, 35065, 35157  
*Sporobolus indicus* (L.) R. Br., LBRH 33882  
*Sporobolus junceus* (P. Beauv.) Kunth, SEWP 443; LBRH 34048  
*Sporobolus silveanus* Swallen, SEWP 290  
*Sporobolus vaginiflorus* (Torr. & A. Gray) A.W. Wood, LB 35092  
*Tridens flavus* (L.) A. S. Hitchc. var. *flavus*, SJ 14499  
*Tridens strictus* (Nutt.) Nash, SEWP 438; LBSH 34181  
*Triplasis purpurea* (Walter) Chapm., SJ 14497; LBSH 34091  
*Urochloa platyphylla* (Munro ex C. Wright) R.D. Webster, LB 34210  
*Vulpia sciurea* (Nutt.) Henrard, LBSH 34418; LB 34614
- Polygalaceae**  
*Polygala incarnata* L., SJ 14485  
*Polygala leptocaulis* Torr. & A. Gray, SEWP 449  
*Polygala mariana* Mill., SEWP 184  
*Polygala nana* (Michx.) DC. SJ 14219, 14484  
*Polygala polygama* L., SJ 14216  
*Polygala ramosa* Elliott, SJ 14399
- Polygonaceae**  
*Brunnichia ovata* (Walter) Shinnars, WP 154; LBSH 34973  
*Eriogonum longifolium* Nutt. var. *longifolium*, SJ 14501  
*Polygonum densiflorum* Meisn., LB 35165  
*Polygonum hydropiperoides* Michx., SJ 14315  
 \**Polygonum lapathifolium* L., LBSH 34101, 34966; LB 34309  
*Polygonum punctatum* Elliott, SEWP 462; LBSH 34082; LB 35110  
 \**Rumex crispus* L., LBRH 34626  
*Rumex hastatulus* Baldw., GW 2940
- Polypodiaceae**  
*Pleopeltis polypodioides* (L.) E.B. Andrews & Windham var. *michauxiana* (Weath.) E.B. Andrews & Windham, LBSH 34171
- Pontederiaceae**  
 \**Eichhornia crassipes* (Mart.) Solms, PH 05016 (J)
- Potamogetonaceae**  
*Potamogeton pusillus* L., SJ 14430
- Primulaceae** (see Myrsinaceae for *Anagallis* and *Lysimachia* and Theophrastaceae for *Samolus*)
- Ranunculaceae**  
*Anemone berlandieri* Pritz., GW s.n.  
*Clematis crispa* L., LBSH 34390 (J)  
 \**Ranunculus muricatus* L., LB 34254  
*Ranunculus pusillus* Poir., LB 34301
- Rhamnaceae**  
*Berchemia scandens* Trel., LBSH 34391 (J); LB 35009  
*Frangula caroliniana* (Walter) A. Gray, LBSM 33769; WP 132
- Rosaceae**  
*Agrimonia microcarpa* Wallr., GW 680; LBRH 33890

\**Cotoneaster* sp., LBSH 34652 (J)  
*Crataegus marshallii* Eggl., SJ 13714  
*Crataegus opaca* Hook. & Arn. ex Hook., SJ 13710; LBRH 34629  
*Crataegus viridis* L., LB 34293  
 +*Aronia arbutifolia* (L.) Pers. SJ 14287  
 +\**Potentilla indica* (Andrews) T. Wolf, WP 109; LB 34262  
*Prunus caroliniana* (Mill.) Aiton, SEWP 204; LB 35069  
*Prunus serotina* Ehrh., SEWP 303; LB 35189  
*Rubus argutus* Link, WP 076  
*Rubus trivialis* Michx., SEWP 450

### Rubiaceae

*Cephalanthus occidentalis* L., SJ 14380  
*Diodia teres* Walter, SJ 14213; LBSH 34946  
*Diodia virginiana* L., LBSM 33732; SJ 14229  
 \**Galium aparine* L., LB 34265  
*Galium pilosum* Aiton, SJ 14215  
*Galium tinctorium* L., LB 34307; LBSH 34403 (J)  
*Galium uniflorum* Michx., SEWP 198  
*Mitchella repens* L., WP 124; LB 35151  
*Oldenlandia boschii* (DC.) Chapm., LBRH 34054  
*Oldenlandia uniflora* L., SEWP 381; LBSH 34096, 34941  
 \**Richardia brasiliensis* Gomes, SJ 14417  
 \**Richardia scabra* L., LBRH 33907; LB 35023

### Rutaceae

*Zanthoxylum clava-herculis* L., LBSH 34950

### Salicaceae

*Salix nigra* Nutt., WP 074

### Salviniaceae

\**Salvinia minima* Baker, LBSH 34080; LB 35118

### Sapindaceae

*Acer barbatum* Michx., SJ 14302; LB 34096  
*Acer rubrum* L., LBSM 33731

### Sapotaceae

*Sideroxylon lanuginosum* Michx. subsp. *oblongifolium* (Nutt.) T.D. Pennington, WP 139; SJ 14333; LBSH 34083

### Saururaceae

*Saururus cernuus* L., LBSH 3384, 34185

**Scrophulariaceae** (all of our taxa are in the following families: Orobanchaceae (*Agalinis* and *Aureolaria*); Linderniaceae (*Lindernia*); Phrymaceae (*Mimulus*); Plantaginaceae (*Bacopa*, *Gratiola*, *Mecardonia*, *Micranthemum*, *Nuttallanthus*, *Veronica*, and *Scoparia*)

### Selaginellaceae

*Selaginella apoda* (L.) Spreng., PR s.n.

### Smilacaceae

*Smilax bona-nox* L., LBSH 34407 (J), 34653 (J); LB 34984  
*Smilax glauca* Walter, SEWP 217, 207; LBSH 34413  
*Smilax laurifolia* L., LBJL 34005  
*Smilax pumila* Walter, MM 8019; SEWP 278  
*Smilax rotundifolia* L., SEWP 215  
*Smilax smallii* Morong, SEWP 216; LB 34230, 34258; LBSH 34944  
*Smilax walteri* Pursh, SJ 14561; LB 35025

### Solanaceae

*Physalis heterophylla* Nees, LB 34228  
*Physalis pubescens* L., SJ 14451; GW 2956; LBSH 34095  
*Solanum carolinense* L., SJ 14201  
*Solanum ptycanthum* Dun., SJ 14203; LB 35167

### Sphenocleaceae

\**Sphenoclea zeylandica* Gaertn., LB 34983

### Styracaceae

*Halesia diptera* Ellis, LBSM 33723; SJ 14140, 14339  
*Styrax americana* Lam., SJ 14382, 13715; LBSH 33843; LB 34284

### Symplocaceae

*Symplocos tinctoria* (L.) L'Her., LBSM 33763; SJ 13712

### Tetrachondraceae

*Polypremum procumbens* L., SEWP 461, 203; SJ 14197

### Thelypteridaceae

*Thelypteris kunthii* (Desv.) Morton, MM 8032; SJ 14307; GW 829

### Theophrastaceae

*Samolus valerandi* L. subsp. *parviflorus* (Raf.) Hultén, LBRH 34643

**Tiliaceae** (see Malvaceae for *Tilia*)

### Typhaceae

*Typha latifolia* L., WP 162

**Ulmaceae** (see Cannabaceae for *Celtis*)

*Planera aquatica* (Walter) J. F. Gmel., WP 155  
*Ulmus alata* Michx., SEWP 289  
*Ulmus americana* L., SJ 14303

### Urticaceae

*Boehmeria cylindrica* (L.) Sw., LBJL 34037

### Valerianaceae

*Valerianella radiata* (L.) DuRoi, WP 082; LB 34551, 34582

**Verbenaceae** (see Lamiaceae for *Callicarpa* and *Vitex*)

\**Glandularia pulchella* (Sweet) Trons., SEWP 190  
*Phyla lanceolata* (Michx.) Small, LB 35162  
*Phyla nodiflora* (L.) Greene, GW 2934  
 \**Verbena brasiliensis* Vell., SJ 14202; GW 2932  
*Verbena halei* Small, GW 2922; LB 34532  
 \**Verbena rigida* Spreng., LBJL 34012  
*Verbena scabra* Vahl, GW 2959; LB 35164

### Violaceae

*Viola lanceolata* L., LB 34291  
*Viola sororia* Willd. var. *missouriensis* (Greene) McKinney, LB 34286  
*Viola sororia* Willd. var. *sororia*, LB 34548  
*Viola palmata* L., LB 34276

### Vitaceae

*Ampelopsis arborea* (L.) Koehne, WP 143; LBRH 33908  
*Parthenocissus quinquefolia* (L.) Planch., SJ 14304  
*Vitis aestivalis* Michx., SEWP 211; LBRH 34636; LB 34616  
*Vitis cinerea* (Engelm.) Engelm. ex Millardet var. *cinerea*, SJ 14460a, 14408

*Vitis palmata* Vahl, LBSM 33721; LBSH 34708

*Vitis rotundifolia* Michx., WP 134; LB 34523

#### Woodsiaceae

*Athyrium filix-femina* subsp. *asplenioides* (Michx.) Hultén, SEWP 442; LBJL 34039

#### Xyridaceae

*Xyris ambigua* Bey. ex Kunth, SJ 14394

*Xyris difformis* Chapm., var. *difformis*, LB 35026

*Xyris jupicai* L. Rich., GW 2961b; LBJL 34026

*Xyris laxifolia* Mart. var. *iridifolia* (Chapm) Karl, SEWP 459; GW 2961a, 2973; LBJL 33999

#### NOTES

**Alternanthera sessilis.** Brown and Marcus (1998) first reported this invasive species new to Texas from Liberty County and later it was found in Brazoria County (Brown et al. 2007). It is now known from Hardin County where it was collected on a sandy, drawn-down site along the Neches River.

**Gonolobus suberosus** var. **granulatus.** The genus *Gonolobus* is recognized as distinct from *Matelea* and *G. suberosus* has priority over *G. gonocarpus*. (Weakley 2007)

**Bidens aristosa.** We include *Bidens polylepis* under this taxon following Lipscomb and Smith (1977), Smith (1994), and Diggs et al. (1999).

**Iva asperifolia** var. **angustifolia.** Turner (2009) has combined our common sumpweed (*Iva angustifolia*) with a taxon known from Gulf Coastal Mexico.

**Liatris squarrosa** var. **squarrosa.** This variety was not mapped in Texas (Nesom 2006). It is distinguished by the pubescent stems and leaves in contrast to the glabrous stems and leaves of variety *glabra*.

**Symphotrichum divaricatum.** We are following Nesom (2005) by using the specific rank and not *Symphotrichum subulatum* var. *ligulatum* the varietal rank. See Nesom (2009) for further information.

**Vernonia gigantea.** Turner et al. (2003) mapped it only in Montgomery and Polk counties. Our Hardin County collection is apparently a new county record.

**Lechea minor.** First reported new to Texas from the Lance Rosier Unit (Brown et al. 2007). Only one non-flowering plant was noted in that Unit. In the Jack Gore Baygall and Neches Bottom Units, collections of vegetative and flowering plants are from a small population on an upland sandy soil under a telephone right of way on the north side of the entrance to the Jack Gore Baygall Unit along Timber Slough Road. Currently, Texas collections of this species are only from these two Big Thicket Units.

**Scirpus divaricatus.** Turner et al. (2003) and Diggs et al. (2006) mapped this sedge only in Hardin County. The first Texas collection was from the Jack Gore Baygall but no location details were provided (Nixon and Ward 1982). Collections made for this study were from two locations in the Jack Gore Baygall. One was collected in a small shallow woodland pool on the north side of Franklin Lake Road at 30°28.00'N; 94°08.4'W. Collections made there were LBSM 33766 and LB 34980. At this location, the plants were common in a ca 0.4 ha. site. The label data on GW 3495 was Zig Zag Road, however the road sign along Highway 2937 is Youngblood Road. The first author has observed this species in a woodland depression along this road but did not collect it. It is probable that the only Texas collections are from these two sites.

**Desmodium fernaldii.** Turner et al. (2003) and Jones et al. (1997) did not list for species for Texas. Our single collection, from an arid sandyland at the pipeline right of way along Timber Slough Road, best fits the description and key in Gleason and Cronquist (1991) who reported it in Texas.

**Desmodium viridiflorum.** We merge *D. nuttallii* with this species following Gleason and Cronquist (1991, page 296).

**Galactia regularis.** In most floras, this species is called *Galactia volubilis*. As currently understood *G. volubilis* does not occur in Texas. See Ward and Hall (2004).

**Lackeya multiflora.** This species, formerly named *Dioclea multiflora*, is not mapped in Hardin County

(Turner et al. 2003). This legume vine, bearing rather large leaflets, was common on sandy soil along the Neches River in Hardin County. Our three collections are from sites that we were able to access.

**Aronia arbutifolia.** When *Aronia* and *Photinia* are combined, *Aronia* has priority because it is older. (Weakley 2007).

**Oxalis dillenii.** See Nesom (2009a) regarding this name and a significant revision of the other caulescent *Oxalis*.

**Oxalis debilis.** See Nesom (2009b) regarding this name and a significant revision of the other acaulescent *Oxalis*.

**Glyceria striata.** Turner et al. (2003) mapped this common species of the more northern states largely in the Edwards Plateau with Lamar and Washington counties the only stations east of the Plateau. The Hardin County station is the most southern and eastern record for Texas. There was a small population along the Wagon Road Trail which is off of a pipeline right of way in the only portion of the Jack Gore Baygall Unit that contacts Highway 2937.

**Potentilla indica.** Formerly named *Duchesnea indica* (Andrews) Focke, molecular studies indicate it is better placed in *Potentilla* (Erickson et al. 1998).

**Pseudognaphalium luteoalbum.** The only record east of the Edwards Plateau for this invasive species was Liberty County (Brown et al. 2007). Our Hardin County collection, from a draw-down site along the Neches River, is the second record east of the Plateau.

#### DISCUSSION

There are 133 families and 379 genera for the 734 (645 native) species and 739 taxa (650 native) recorded for the Jack Gore Baygall and Neches Bottom Units. Seven families: Poaceae (114 taxa), Asteraceae (95 taxa), Cyperaceae (69 taxa), Fabaceae (52 taxa), Euphorbiaceae (21 taxa), Lamiaceae (15 taxa), and Fagaceae (13 taxa) account for 51% of all taxa collected. The genera with 10 or more taxa are *Cyperus* (21 taxa), *Dichanthelium* (19 taxa), *Carex* (17 taxa), *Quercus* (11 taxa), and *Juncus* (10 taxa). As are all floras, our list is incomplete but we believe that we have collected over 90 % of the taxa. Of the eight units inventoried so far, the following 28 taxa were found only in the Jack Gore and Neches Bottom units: *Alternanthera philoxeroides*, *Torilis nodosa*, *Bidens laevis*, *Croptilon rigidifolium*, *Pseudognaphalium luteoalbum*, *Solidago stricta*, *Tetragonothera ludoviciana*, *Vernonia gigantea*, *Scirpus divaricatus*, *Impatiens capensis*, *Cucumis melo*, *Schoenoplectus californicus*, *Equisetum hyemale*, *Astragalus leptocarpus*, *Desmodium fernaldii*, *Desmodium lineatum*, *Limnium spongia*, *Glinis radiatus*, *Hexalectris spicata*, *Spiranthes laciniata*, *Saccharum brevibarbe* var. *brevibarbe*, *Sporobolus vaginiflorus*, *Potamogeton pusillus*, *Eichhornia crassipes*, *Potamogeton pusillus*, *Anemone berlandieri*, *Richardia brasiliensis*, and *Vitex negundo* var. *intermedia*.

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