

ANNOTATED CHECKLIST OF THE VASCULAR FLORA OF THE TURKEY CREEK UNIT OF THE BIG THICKET NATIONAL PRESERVE, TYLER AND HARDIN COUNTIES, TEXAS

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ABSTRACT: An annotated, vouchered checklist is provided of the vascular plant taxa of the 3150 hectare Turkey Creek Unit, Big Thicket National Preserve, Tyler and Hardin counties, southeastern Texas. 691 native taxa and 47 exotic taxa are documented for the unit. The communities of the Turkey Creek Unit are provided.

INTRODUCTION

This is the second part of an intended inventory, based upon available voucher specimens, of the flora of the Big Thicket National Preserve, southeastern Texas. In a previous paper we provided an annotated checklist with community associations of the vascular flora of the Hickory Creek Unit (MacRoberts et al. 2002). In this paper we provide an annotated checklist for the Turkey Creek Unit without community affiliations for species.

SITE AND METHODS

The Big Thicket is located mostly within the longleaf pine region of the West Gulf Coastal Plain in southeastern Texas (Parks and Cory 1936; McLeod 1971; Harcombe and Marks 1979; Marks and Harcombe 1981; Harcombe et al. 1993). The Big Thicket National Preserve consists of 12 units scattered over seven Texas counties. The units range in size from 222 hectares to 10,100 hectares and total about 34,000 hectares (Peacock 1994). We selected the Turkey Creek Unit for the second part of the floristic survey, a 3150 hectare area located in southern Tyler and northern Hardin counties (Fig. 1). The Turkey Creek Unit, which consists of twelve plant communities, was chosen for inclusion in the Big Thicket National Preserve because it is centrally located, is a corridor unit along Turkey Creek, and is diverse (Ajilvsgi 1979; Watson 1979; Harcombe and Marks 1981; MacRoberts and MacRoberts 1998). The unit is about 18 km from north to south and is about 4 km at its widest east-west point. The unit ranges from about 15 to 45 meters in elevation. Details regarding edaphic and climatic factors can be found in Deshotels (1978), Watson (1979), and Marks and Harcombe (1981). A community map of the unit is in Harcombe and Marks (1979).

Like all units of the Big Thicket National Preserve, the Turkey Creek Unit has not been the subject of a floristic inventory although extensive but desultory collecting has occurred there (Watson 1982; MacRoberts and MacRoberts 1998).

The MacRoberts' collected 620 specimens from the Turkey Creek Unit during 11 field days beginning 13 September 2001 and ending 3 April 2003. These are temporarily deposited at Rice University. In addition, in 1997 and 1998, the MacRoberts collected and deposited 65 specimens from the Turkey Creek Unit at TEX for a study of wetland pine savannas (MacRoberts and MacRoberts 1998). Larry Brown collected 243 specimens during 2 field days on 24 July 2002 and 25 October 2003 and about 60 specimens between October 1981 and September 1996. Dan Johnson collected about 168 specimens on 7 days between 25 October 2002 and 20 July 2003. Geraldine Watson collected about 236 Turkey Creek specimens over several years in the late 1970s and early 1980s.

Since our purpose is to produce a list of taxa known to occur on the Turkey Creek Unit, a vouchered specimen was considered to be the only evidence acceptable for inclusion in the list. In all, about 1340 herbarium specimens form the data for this report. All specimens have been annotated by Larry Brown except for William Carr's four collections at TEX (which have all been recollected) and the MacRoberts' 65 specimens deposited at TEX for a wetland savanna study. These taxa are listed in MacRoberts and MacRoberts (1998) and most have been recollected during our current survey. The following taxa in the 1998 paper have not been recollected, thus the vouchers for them reside only at TEX: *Lycopodiella appressa*, *Hypoxis hirsuta*, *Eleocharis tuberculosa*, *Rhynchospora gracilentia*, *Rhynchospora rariflora*, *Scleria georgiana*, *Scleria reticularis*, *Aletris aurea*, *Schoenolirion croceum*, *Calopogon tuberosus*, *Panicum verrucosum*, *Paspalum praecox*, *Smilax laurifolia*, *Xyris ambigua*, *Xyris baldwiniana*, *Xyris caroliniana*, *Coreopsis linifolia*, *Marshallia graminifolia* var. *cynanthera*, *Drosera brevifolia*, *Drosera capillaris*, *Polygala cruciata*, *Photinia pyrifolia* (as *Aronia arbutifolia*), and *Viola primulifolia*.

On August 29, 2004, Joe Liggio took the senior author to a new addition of the Turkey Creek Unit. It ranges on the east side of Highway 69/287 between Highway 420 north to Village Creek. In a savanna community north of Highway 420, we collected the following, *Rhynchospora pusilla*, *Fuirena bushii*, *Xyris stricta* var. *obscura*, *Bigelovia nuttallii*, *Silphium gracile*, and *Tephrosia onobrychoides*. Only *R. pusilla* and *B. nuttallii* were new.

In most cases the nomenclature follows Jones et al. (1997) and Kartesz (1999). Some recent literature sources were followed, especially some nomenclatural adjustments published in the *Flora of North America* volumes. In cases of multiple collections, no more than four are listed for each taxon. For each taxon we list the county of collection if known. Some of Geraldine Watson's collections do not designate county.

The following is a list of communities (mostly using the nomenclature of Marks and Harcombe {1981}) in the Turkey Creek Unit. For each community, except for ponds, we list up to three of the dominant woody species as presented by Marks and Harcombe (1981.).

Sandhill Pine Forest: *Quercus incana*, *Q. margaretta*, and *Cornus florida*.

Upland pine forest: *Pinus palustris*, *P. taeda*, and *Callicarpa americana*.

Wetland pine savanna: *Pinus palustris*, *Nyssa biflora*, and *Cyrilla racemiflora*.

Upper slope pine oak forest: *Pinus echinata*, *Quercus falcata*, and *Ilex vomitoria*.

Mid slope oak pine forest: *Pinus taeda*, *Quercus falcata*, and *Cornus florida*.

Lower slope hardwood pine forest: *Magnolia grandifolia*, *Quercus nigra*, and *Ilex opaca*.

Floodplain hardwood pine forest: *Pinus taeda*, *Fagus grandifolia*, and *Carpinus caroliniana*.

Cypress tupelo forest: *Taxodium distichum*, *Nyssa aquatica*, and *Planera aquatica*.

Floodplain hardwood forest: *Quercus nigra*, *Liquidambar styraciflua*, and *Carpinus caroliniana*.

Baygall/stream course: *Cyrilla racemiflora*, *Ilex coriacea*, and *Magnolia virginica*.

Ponds: *Juncus repens*, *Quercus laurifolia*, and *Crataegus opaca*

RESULTS

The following abbreviations are used in Table 1.

CL = C. Lui. His 15 collections are at Rice University.

DJ = Dan Johnson. His 163 specimens are temporarily at Rice University.

GW = Geraldine Watson. Her National Park Service specimens are at Rice University.

LB = Larry Brown. All of his Turkey Creek specimens are at SBSC.

MM = Barbara and Michael MacRoberts. Their collections are temporarily at Rice University except for the 23 taxa whose vouchers are at TEX.

KC = Katie Caldwell. Her collections are at Rice University.

PH = Paul Harcombe. His 15 specimens are at Rice University.

SE = Sandy Elsik. Her 13 collections are at Rice University.

WC = William Carr. His 4 collections are at TEX/LL.

(H) = Collected from Hardin County.

(T) = Collected from Tyler County.

() = A Geraldine Watson collection with no county indicated.

* = exotic (not native to North America).

+ = see note at end of list.

Table 1. Annotated list of the Turkey Creek Unit vascular taxa.

ACANTHACEAE

Hygrophila lacustris (Schlecht. & Cham.) Nees, (H T) DJ 1948, 1728

Justicia ovata (Walter.) Lindau var. *lanceolata* (Chapm.) R. W. Long, (H T) MM 5634, 5421; GW 215

Ruellia caroliniensis (J. F. Gmel.) Steud., (H) DJ 2002, 1678

Ruellia humilis Nutt., (H T) MM 5675, 5451; GW 2566, 2761

Yeatesia viridiflora (Nees) Small, (H) MM 5635; LB 27090

ACERACEAE

Acer barbatum Michx., (T) DJ 2079; LB 11093

Acer rubrum L., (H T) LB 27476; MM 4963, 5231

AGAVACEAE

Manfreda virginica (L.) Salisb. ex Rose, (T) MM 5770

Yucca louisianensis Trel., (T) MM 5286

ALISMATACEAE

Sagittaria latifolia Willd., (T) DJ 1894

Sagittaria papillosa Buchenau, (H) MM 5667, 2608b; DJ 1993

AMARANTHACEAE

Froelichia floridana (Nutt.) Moq., (H) MM 5144; GW 2373, 2748

ANACARDIACEAE

Rhus glabra L., (H T) MM 5194, 5117, 4973; LB 27155

Rhus copallinum L., (H) DJ 1664

Toxicodendron radicans (L.) Kuntze, (T) DJ 2101, 2088

ANNONACEAE

Asimina parviflora (Michx.) Dunal, (H T) MM 5000; SE 2009; LB 27508

APIACEAE

Centella erecta (L.f.) Fernald, (H T) MM 5664, 5077

Chaerophyllum tainturieri Hook. var. *tainturieri*, (H) MM 5309, 6039

**Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & P. Wilson, (T) DJ 1886; MM 6064

Eryngium integrifolium Walter, (H T) MM 3507; LB 6589

Eryngium prostratum Nutt. ex DC., (H T) DJ 1812, 1843

Eryngium yuccifolium Michx., (T) MM 5754, 5059,

Hydrocotyle verticillata Thunb., () GW 2767, 2676

Oxypolis filiformis (Walter.) Britton, (T) MM 5202

Oxypolis rigidior (L.) Raf., (T) MM 5203, 5888

Ptilimnium capillaceum (Michx.) Raf., (H T) GW 2608, 3421

Ptilimnium costatum (Elliott) Raf., (T) MM 5774, 5602; GW 2759; LB 6659

Sanicula canadensis L., (H T) MM 5473; GW 2609c; DJ 1780; LB 27138

Thaspium trifoliatum (L.) A. Gray var. *aureum* Britton, (H) GW 2471, 2610b

APOCYNACEAE

Amsonia tabernaemontana Walter, () GW 3241

Trachelospermum difforme (Walter) A. Gray, (H) DJ 1682

AQUIFOLIACEAE

Ilex ambigua (Michx.) Torr., (H T) GW 2631, 2752; DJ 1681

Ilex coriacea (Pursh) Chapm., (T) MM 5245, 3892; GW 2452, 3444

Ilex decidua Walter, (I) GW 2693a, 2673

Ilex longipes Chapm. ex Trel., (H T) MM 5922, 6063; LB 27481, 27552

Ilex opaca Aiton, (H T) MM 5004, 5285

Ilex vomitoria Aiton, (H T) MM 4978, 5284

ARACEAE

Arisaema triphyllum (L.) Schott, (H T) MM 5317, 5260; GW 1033

ARALIACEAE

Aralia spinosa L., (T) MM 5423

ARECACEAE

Sabal minor (Jacq.) Pers., (H T) MM 5930, 5316; LB 27459a

ARISTOLOCHIACEAE

Aristolochia reticulata Jacq., (T) MM 5052

Aristolochia serpentaria L., (H) GW 2645, 2651; DJ 1790

ASCLEPIADACEAE

Asclepias longifolia Michx., (T) MM 5080

Asclepias obovata Elliott, (T) MM 5758, 5050, 5190; LB 27588

Asclepias perennis Walter, (H) MM 5636

Asclepias rubra L., (H) GW 544

Asclepias tuberosa Woodson, (T) MM 5468

Asclepias variegata L., (H) GW 76, 2627; MM 5379, 5410

Asclepias verticillata L., (T) GW 1167, 2749

Matelea cynanchoides (Engelm.) Woodson, (H) LB 27126; GW 2649

Matelea gonocarpus (Walter) Shinnars, (H) LB 27462

ASPLENIACEAE

Asplenium platyneuron (L.) Britton, Sterns & Poggenb., (H) DJ 1789

ASTERACEAE

Ageratina altissima (L.) R. M. King & H. Rob., (H) MM 5911, 5919; LB 27506, 27460

Ambrosia artemisiifolia L., (H T) LB 27499; MM 5155; CL 901113

Ambrosia psilostachya DC., (H) MM 5933

Ambrosia trifida L., (T) DJ 2092

Arnoglossum ovatum (Walter) H. Rob., (T) MM 5070, 3508; GW 2685

Baccharis halimifolia L., (T) GW 2860

Berlandiera pumila (Michx.) Nutt. var. *pumila*, (H T) MM 5463, 5395

Berlandiera pumila (Michx.) Nutt. var. *scabrella* Nesom & B. L. Turner, (H) MM 5463; LB 27146

Bidens aristosa (Michx.) Britton, (H T) MM 5660, 5409; GW 2826, 2629

Bidens bipinnata L., (H) DJ 2000

Bidens frondosa L., (H T) GW 2895; DJ 1945, 2041

Bigelowia nuttallii L. C. Anderson, (H) Brown 30128

Boltonia diffusa Elliott, (H T) MM 5673, 5185, 3509; GW 2440

Chaptalia tomentosa Vent., (T) MM 5288, 3625

Chrysopsis mariana (L.) Elliott, (H T) MM 5898, 5761; LB 5578, 8155

Chrysopsis pilosa Nutt., (H T) CL 901190, 901195; GW 2389

Cirsium horridulum Michx., (T) MM 6069

Conoclinium coelestinum (L.) DC., (H T) MM 5768, 5809, 5917; LB 27075

Conyza canadensis (L.) Cronquist var. *pusilla* (Nutt.) Cronquist, (H T) MM 5819; DJ 1852

+*Coreopsis intermedia* Sherff, (T) DJ 2088a

Coreopsis linifolia Nutt., (T) MM 3627

Coreopsis tinctoria Nutt., (H) DJ 2012

Croptilon divaricatum (Nutt.) Raf., (H T) LB 27484; MM 5146, GW 2379; CL 901184

Echinacea pallida (Nutt.) Nutt. var. *sanguinea* (Nutt.) Gandhi & R. D. Thomas, (H T) LB 27575; MM 5378, 5462

Elephantopus carolinianus Raeusch., (H T) MM 5796; LB 27513

Elephantopus nudatus A. Gray, (T) GW 2868, 2865

Elephantopus tomentosus L., (H T) MM 5745, 5116; LB 27120

Erechtites hieracifolia (L.) Raf. ex DC., (H T) DJ 1788

Erigeron philadelphicus L., (H T) MM 5445, 6035

Erigeron strigosus Muhl. ex Willd., (H T) MM 5445, 6046; GW 2541; DJ 2104

Eupatorium capillifolium (Small) Lam., (T) LB 27586

Eupatorium compositifolium Walter, (T) DJ 2083, 1888; LB 14892

Eupatorium lancifolium (Torr. & A. Gray) Small, (T) MM 5748, 5114; LB 27526; DJ 2052

Eupatorium leucolepis (DC.) Torr. & A. Gray, (T) MM 5747, 5059

Eupatorium mohrii Greene, (H T) GW 2179; DJ 2067

Eupatorium perfoliatum L., (H) DJ 1981

Eupatorium rotundifolium L., (T) MM 5102

Eupatorium semiserratum DC, (H T) LB 27581; GW 2180; DJ 1946, 1994

Eupatorium serotinum Michx., (H) MM 5148

Eurybia hemispherica (Alexander) Nesom, (T) MM 5891, 5188, GW 2847; LB 6660

Euthamia leptoccephala (Torr. & A. Gray) Greene ex Porter & Britton, (T) GW 2864b

Gaillardia aestivalis (Walter) H. Rock var. *aestivalis*, (H) MM 4964

Gaillardia pulchella Foug. var. *pulchella*, (H) MM 5678

Gamochaeta coarctata (Willd.) Kergerulen, (H) GW 2479; MM 6059

Gamochaeta purpurea (L.) Cabrera, (H) GW 2473; 2615

Helenium amarum (Raf.) H. Rock var. *amarum*, (H T) MM 5762, 5140

Helenium drummondii H. Rock, (H) MM 5301

Helenium flexuosum Raf., (T) GW 2626; MM 5439; LB 18654

Helianthus angustifolium L., (T) LB 27590

Helianthus debilis Nutt. var. *silvestris* (Heiser) Cronquist, (H) LB 27131a

Heterotheca subaxillaris (Lam.) Britton & Rusby, (H) MM 5156

Hieracium gronovii L., (H T) LB 27464a, 27130, 27547; MM 5145

Hymenopappus artemisiifolius DC. var. *artemisiifolius*, (T) MM 5450, 5281

Iva angustifolia DC., (H) DJ 2102

Iva annua L., (T) GW 2850

Krigia cespitosa (Raf.) K. L. Chambers, (H) GW 2534, 2617b

Krigia wrightii (A. Gray) K. L. Chambers ex K. J. Kim, (T) MM

5277

Lactuca canadensis L., (H) DJ 2109

Lactuca floridana (L.) Gaertn., (H) DJ 1793

Liatris acidota Engelm. & A. Gray, (H T) MM 5676, 5082; LB 27153

Liatris elegans (Walter) Michx. var. *elegans*, (H T) MM 5896, 5915, 5184

Liatris pycnostachya Michx., (T) MM 5091

Liatris squarrosa (L.) Michx. var. *squarrosa* (T) MM 5771

Marshallia graminifolia (Walter) Small var. *cynanthera* (Elliott) Beadle & F. A. Boynt., (T) MM 4006

Mikania scandens (L.) Willd., (H) DJ 1689

Oligoneuron nitidum (Torr. & A. Gray) Small, (H T) MM 5755, 5062, GW 2846; DJ 1693

Palafoxia reverchonii (Bush) Cory, (H) MM 4130; GW 2380

Pityopsis graminifolia (Michx.) Nutt., (T) MM 5283, 3715

Pluchea camphorata (L.) DC., (H T) MM 5804; GW 2764; DJ 1939

Pluchea foetida (L.) DC., (H T) MM 5680, 5196

Pluchea rosea Godfrey, (H T) MM 5669, 3653

Pseudognaphalium obtusifolium (L.) Hillard & Burt, (H) MM 5913, 5161, 5159; GW 2367

Rudbeckia hirta L., (H T) MM 4972, 5367, PH 291

Pyrrhopappus carolinianus (Walter) DC., (T) DJ 1723

Silphium gracile A. Gray, (T) MM 5189

Smallanthus uvedalius (L.) Mack. ex Small, (H) MM 5388; LB 27124

Solidago caesia L., (T) GW 3464, 3465

Solidago canadensis L., (T) GW 2862, 2863, 3470, 3471

Solidago ludoviciana (A. Gray) Small, (H T) MM 5767, 5788; GW 3468; LB 27150

Solidago odora Aiton var. *odora*, (T) GW 2372, 2864a; LB 27566

Solidago petiolaris Aiton, (T) GW 2751, 3459

Solidago rugosa Mill. ssp. *asper* (Aiton) Cronquist, (H T) LB 27486; GW 2431, 2832

Solidago rugosa Mill. ssp. *rugosa*, (T) DJ 1964

Solidago tortifolia Elliott, (T) GW 3458b

**Sonchus asper* (L.) Hill, (T) MM 5902

**Sonchus oleraceus* L., (T) MM 5294

Symphyotrichum dumosum (L.) Nesom, (H T) GW 2429b, 2430a; MM 3743; LB 27113

Symphyotrichum divaricatum (Nutt.) Nesom (T) GW 2429a, 2866

Symphyotrichum lateriflorum (L.) A. & D. Love, (H T) GW 2834, 3445

Symphyotrichum pratense (Raf.) Nesom, (T) MM 5908; CL 901189; GW 2897

Symphyotrichum racemosum (Elliott) Nesom, (T) LB 27570

Thelesperma flavodiscum (Shinners) B. L. Turner, (H) GW 2653, 2827; LB 27129

Verbesina helianthoides Michx., (H) DJ 1663

Verbesina virginica L., (H) MM 5924, 5171

Vernonia missurica Raf., (H) GW 206b, 2680; DJ 1815

Vernonia texana (A. Gray) Small, (T) MM 5752

BERBERIDACEAE

Podophyllum peltatum L., (H T) MM 5239, 5298

BETULACEAE

Alnus serrulata (Aiton) Willd., (T) DJ 1739, 1730

Betula nigra L., (H) DJ 1673

Carpinus caroliniana Walter, (H T) LB 27491; MM 4987, 5437; GW 918

Ostrya virginiana (Mill.) K. Koch, (H) GW 206a

BIGNONIACEAE

Bignonia capreolata L., (H T) MM 6052, 6043

Catalpa speciosa (Warder) Warder ex Engelm., (H T) GW 2624; DJ 1680

BLECHNACEAE

Woodwardia areolata (L.) T. Moore, (T) MM 5261

Woodwardia virginica (L.) Small., (T) MM 5087; DJ 1706

BORAGINACEAE

Heliotropium indicum L., (H) MM 5644

Lithospermum caroliniense (Walter ex J. F. Gmel.) MacMill., (H) LB 27131

Myosotis macrosperma Engelm., (H) MM 5304

BROMELIACEAE

Tillandsia usneoides (L.) L., (H) LB 27469; MM 5173

BUDDLEJACEAE

Polypremum procumbens L., (H) MM 4994, 5364, 5393

BURMANNIACEAE

Apteria aphylla Nutt., (T) DJ 1895

Burmanniea capitata (J. F. Gmel.) Mart., (T) MM 5772

CACTACEAE

Opuntia humifusa (Raf.) Raf., (H) LB 27117

CAMPANULACEAE

Lobelia appendiculata A. DC., (H T) MM 5365, 5456

Lobelia cardinalis L., (H) DJ 1953

Lobelia puberula Michx., (H T) MM 5894, CL 901197, 901112; LB 8148

Lobelia reverchonii B. L. Turner, (H T) MM 5895; GW 2831

Triodanis perfoliata (L.) Nieuwl., (H) GW 2614

**Wahlenbergia marginata* (Thunb.) A. DC., (H T) DJ 2062; MM 6056

CAPPARACEAE

**Cleome hassleriana* Chodat., (H) DJ 1963, 2070

CAPRIFOLIACEAE

**Lonicera japonica* Thunb., (H) MM 5391

Lonicera sempervirens L., (H) MM 5244; DJ 1685

Sambucus nigra L. ssp. *canadensis* (L.) R. Bolli, (H) MM 5384; LB 27110

Viburnum acerifolium L., (H T) LB 27487; GW 2629

Viburnum dentatum L., (H T) MM 5795, 5005, 4970; LB 27077

Viburnum nudum L. var. *cassinoides* (L.) Torr & A. Gray (including *V. nitidum* Aiton), (T) DJ 1731

Viburnum rufidulum Raf., (H T) DJ 2003, 2085

CARYOPHYLLACEAE

**Cerastium glomeratum* Thuill., (H) MM 5307, 6053
Sagina decumbens (Elliott) Torr. & A. Gray, (H) MM 6005
Silene subciliata B. L. Rob., (H T) MM 5801, 5157; DJ 1684

CELASTRACEAE

Euonymus americanus L., (H) MM 6042

CHENOPODIACEAE

+*Dysphania ambrosioides* (L.) Mosyakin & Clements, (H) MM 5932; LB 27457

CISTACEAE

Helianthemum carolinianum (Walter) Michx., (H T) DJ 1646, 1891; MM 6057

Helianthemum georgianum Chapm., (T) DJ 2064

Lechea mucronata Raf., (H T) MM 5786, 5012; DJ 2053 1701

Lechea tenuifolia Michx., (H) DJ 1700

CLETHRACEAE

Clethra alnifolia L., (T) SE 2034; LB 18634; DJ 1787

COMMELINACEAE

Commelina erecta L., (H T) MM 5806, 4772; LB 27070; GW 2668

Commelina virginica L., (H) DJ 1677

Tradescantia reverchonii Bush, (H) MM 4996

CONVOLVULACEAE

Dichondra carolinensis Michx., (H T) MM 5251; SE 2018; LB 27095a

Jacquemontia tamnifolia (L.) Griseb., (T) DJ 2044

**Ipomoea hederacea* Jacq., (T) MM 5799

Ipomoea pandurata (L.) G. F. W. Mey., (T) DJ 1733, 1736

Ipomoea cordatotriloba Dennst., (T) DJ 1784

Stylisma pickeringii (Torr. ex. M. A. Curtis) A. Gray var.

pattersonii (Fernald & B. G. Schub.) Myint, (H) DJ 1650

CORNACEAE

Cornus florida L., (H T) LB 27470; MM 5170, 5238; SE 2019

Nyssa aquatica L., (T) DJ 1740

Nyssa biflora Walter, (H T) MM 5197, 5086; DJ 2004; LB 27565

Nyssa sylvatica Marshall, (H T) MM 5116a, 5001

CRASSULACEAE

Penthorum sedoides L., (H) GW 2675

CUPRESSACEAE

Juniperus virginiana L., (H) MM 4975

Taxodium distichum (L.) L. C. Rich. var. *distichum*, (H) MM 5271; LB 27463

CUCURBITACEAE

Melothria pendula L., (H) DJ 1792

CUSCUTACEAE

Cuscuta compacta Juss. ex Choisy, (T) LB 8157; DJ 2090

CYPERACEAE

*+*Bulbostylis barbata* (Rottb.) C. B. Clark, (T) DJ 2037

Bulbostylis ciliatifolia (Elliott) Fernald var. *coarctata* (Elliott) Kral, (H T) MM 5158, 5002; DJ 1961, 2035

Carex atlantica Bailey ssp. *capillacea* (Bailey) Reznicek, (T) MM 5256

Carex brevior (Dewey) Mack. ex Lunell, (T) DJ 1880

Carex caroliniana Schwein., (T) MM 5418

Carex crebriflora Wiegand, (T) MM 5415

Carex debilis Michx. var. *debilis*, (H T) MM 5419, 5270; LB 27083

Carex flaccosperma Dewey, (T) MM 5430

Carex glaucescens Elliott, (T) MM 5775, 5073

Carex intumescens Rudge, (H T) MM 5413; LB 27086

Carex joorii Bailey, (H T) MM 5789; LB 27459; DJ 2075, 1813

Carex lonchocarpa Willd., (H) MM 5649; LB 27072a

Carex louisianica Bailey, (H) MM 5642; LB 27093

Carex lurida Wahlenb., (T) DJ 2036

Carex muehlenbergii Schkuhr ex Willd. var. *enervis* Boott, (H) MM 5405

Carex styloflexa Buckley, (T) MM 5414, 5262

Carex tenax Chapm., (H) MM 5632

Carex texensis (Torr.) Bailey, (T) MM 5431

Carex tribuloides Wahlenb., (T) DJ 1746

Cyperus compressus L., (T) DJ 2024

Cyperus croceus Vahl, (H T) MM 5153, 5006; DJ 1794; LB 27071

Cyperus digitatus Roxb., (H T) DJ 1969, 2050

Cyperus echinatus (L.) Wood, (T) LB 18631

**Cyperus entrerianus* Boeck., (T) MM 5784

Cyperus esculentus L., (T) DJ 2040

Cyperus grayioides Mohlenbr., (H) MM 4131, 5652; DJ 1803; LB 27071a

Cyperus haspan L., (T) LB 27594; WC 10844

Cyperus hystricinus Fernald, (H) MM 5923, 4968; LB 27454

Cyperus plukenetii Fernald, (H) DJ 1653

Cyperus retroflexus Buckley, (T) DJ 2023

Cyperus retrorsus Chapm., (H) MM 4961; LB 27482

Cyperus strigosus L., (H) MM 5151

Eleocharis microcarpa Torr., (T) LB 6662; MM 3937; DJ 1870

Eleocharis montana (Kunth) Roem. & Schult., (T) DJ 1861

Eleocharis montevidensis Kunth, (T) MM 5247

Eleocharis tuberculosa (Michx.) Roem. & Schult., (T) MM 3883

Fimbristylis autumnalis (L.) Roem. & Schult., (H T) DJ 1971, 1835

Fuirena breviseta (Coville) Coville, (T) LB 6664

Fuirena bushii Kral, (T) MM 3511

Kyllinga odorata Vahl, (T) DJ 1753

Rhynchospora cephalantha A. Gray, (T) DJ 1822

Rhynchospora colorata (L.) Pfeifer, (H) MM 5375

Rhynchospora corniculata (Lam.) A. Gray, (H T) MM 5811, 5643

Rhynchospora divergens Chapm. ex M. A. Curtis, (H) DJ 2009, 2016, 2017

Rhynchospora elliottii A. Gray, (T) MM 5432; DJ 1705

Rhynchospora fascicularis (Michx.) Vahl, (T) DJ 1707, 1710

Rhynchospora filifolia A. Gray, (T) DJ 1827, 1824

Rhynchospora globularis (Chapm.) Small var. *globularis*, (T) DJ 2094

Rhynchospora globularis (Chapm.) Small var. *pinetorum* (Britton & Small) Gale, (H) DJ 1992, 2006
Rhynchospora glomerata (L.) Vahl, (H T) MM 5665; DJ 2096, 1864; LB 27066
Rhynchospora gracilentia A. Gray, (T) MM 3496
Rhynchospora grayi Kunth, (H) LB 27137
Rhynchospora harveyi W. Boott, (T) LB 18632, 18659
Rhynchospora inexpansa (Michx.) Vahl, (H T) LB 27084, 6680
Rhynchospora latifolia (Baldwin ex Elliott) W. W. Thomas, (T) MM 3891; LB 18656
Rhynchospora macrostachya Torr ex A. Gray., (T) DJ 2096a
Rhynchospora mixta Britton, (H T) MM 5653; LB 27123, 18636
Rhynchospora oligantha A. Gray, (T) LB 11092; MM 3495
Rhynchospora perplexa Britton, (T) DJ 1819, 1832, 1826
Rhynchospora plumosa Elliott, (T) MM 3885; DJ 1708
Rhynchospora pusilla M. A. Curtis, (H) LB 30124a
Rhynchospora rariflora (Michx.) Elliott, (T) MM 3884
Rhynchospora recognita (Gale) Kral, (T) DJ 1760, 1781
Sclera ciliata Michx., (T) KC 55
Scleria georgiana Core, (T) MM 3882
Scleria oligantha Michx., (T) MM 5471
Scleria reticularis Michx., (T) MM 3499
Scleria triglomerata Michx., (T) MM 5269
Scirpus cyperinus (L.) Kunth, (T) DJ 1823

CYRILLACEAE

Cyrilla racemiflora Raf., (H T) LB 27473a; MM 3505, 5089

DENNSTAEDTIACEAE

Pteridium aquilinum (L.) Kuhn, (H T) MM 5120, 5313; LB 27121

DIOSCOREACEAE

+*Dioscorea villosa* L., (H) DJ 1796, 1811, 1962; MM 6036

DROSERACEAE

Drosera brevifolia Pursh, (T) MM 3789
Drosera capillaris Poir., (T) MM 3889

DRYOPTERIDACEAE

Athyrium filix-femina (L.) Roth var. *asplenioides* (Michx.) Farw., (T) MM 5429, 5258; DJ 1967, 1729
Onoclea sensibilis L., (H) DJ 1683
Polystichum acrostichoides (Michx.) Schott, (H) MM 5310; GW 109

EBENACEAE

Diospyros virginiana L., (T) MM 5474

ERICACEAE

Lyonia mariana (L.) D. Don, (H T) MM 4064; DJ 1807
Rhododendron canescens (Michx.) Sweet, (H T) MM 5226, 5237, SE 2020
Rhododendron viscosum (L.) Torr., (T) PH 004
Vaccinium arboreum Marshall, (H) MM 5008, 5407
Vaccinium corymbosum L., (H T) MM 5280, 5312; DJ 1742, 2086
Vaccinium stamineum L., (T) LB 27580; PH 008, 237

ERIOCAULACEAE

Eriocaulon decangulare L., (T) MM 5083
Lachnocaulon anceps (Walter) Morong, (H T) MM 5059; GW 2556

EUPHORBIACEAE

Acalypha gracilens A. Gray, (T) LB 27523; DJ 1774
Acalypha rhomboidea Raf., (H T) GW 2671; DJ 1775
Chamaesyce cordifolia (Elliott) Small, (H) LB 27068, 27448; MM 5150; GW 2377
Chamaesyce maculata (L.) Small, (T) LB 27554; DJ 2100
Chamaesyce nutans (Lag.) Small, (T) LB 27562
Cnidoscolus texanus (Mull. Arg.) Small, (H) MM 4988, 5389; LB 27118
Croton argyranthemus Michx., (H T) MM 5058, 5449, GW 2613; LB 27141
Croton capitatus Michx., (T) MM 5208, 5064; CL 901188
Croton glandulosus L. var. *septentrionalis* Mull. Arg. (T) MM 5204, GW 2656
Croton michauxii G. L. Webster, (H) GW 2423b, 2438; LB 27119
Croton willdenowii G. L. Webster, (T) DJ 2063; LB 19685
Euphorbia corollata L., (T) LB 27529; MM 5759, 5109, 5192
Phyllanthus caroliniensis Walter, (T) DJ 1773
**Phyllanthus urinaria* L., (T) LB 27561
Sebastiania fruticosa (W. Bartram) Fernald, (H T) LB 27498, 27073; MM 5053, 4962;
Stillingia sylvatica Garden ex L., (T) MM 5054, 5448
Tragia smallii Shinnery, (T) MM 5056; LB 18633
Tragia urens L., (H) GW 2382, 2650, 2658; LB 27119a
Tragia urticifolia Michx., (T) MM 5205, 5101, 5464
**Triadica sebifera* (L.) Small, (H) MM 4998; LB 27091

FABACEAE

**Albizia julibrissin* Durazzo, (H) MM 5167; LB 27108
Amorpha paniculata Torr. & A. Gray, (T) MM 5800
Apios americana Medik., (H) DJ 1951
Baptisia nuttalliana Small, (H) LB 27128
Centrosema virginianum (L.) Benth., (T) MM 5798; GW 2709a, 2745
Cercis canadensis L. var. *canadensis*, (T) MM 5183
Chamaecrista fasciculata (Michx.) Greene, (T) MM 5760, 5065; GW 2744; CL 901118
Chamaecrista nictitans (L.) Moench, (T) GW 2739
Clitoria mariana L., (H) LB 27081
Crotalaria sagittalis L., (T) DJ 1851; CL 90191
Desmanthus illinoensis (Michx.) MacMill. ex B. L. Rob. & Fernald, (T) DJ 1854
Desmodium ciliare (Muhl. ex Willd.) DC., (H T) MM 5893; GW 2738; DJ 2107, 1804
Desmodium glabellum (Michx.) DC., (T) GW 2366, 2743
Desmodium laevigatum (Nutt.) DC., (T) DJ 2018
Desmodium nuttallii (Schindl.) B. G. Schub., (H T) DJ 2111, 1656, 1853
Desmodium obtusum (Muhl. ex Willd.) DC., (H) LB 27507
Desmodium paniculatum (L.) DC., (H) MM 5143; GW 2740
Desmodium rotundifolium DC., (T) DJ 1959
Desmodium viridiflorum (L.) DC., (T) GW 2741, 2742
Erythrina herbacea L., (T) DJ 1750

Galactia volubilis (L.) Britton, (H) *LB* 27477; *GW* 2643
 **Kummerowia striata* (Thunb.) Schindl., (H) *DJ* 1696
Indigofera suffruticosa Mill., (H) *MM* 5928, 5160; *LB* 27452
 **Lespedeza cuneata* (Dum.Cours.) G. Don, (H) *DJ* 1697
Lespedeza hirta (L.) Hornem. (H T) *DJ* 1809, 1764
Lespedeza repens (L.) Barton, (T) *DJ* 2030
Lespedeza stuevei Nutt., (H T) *DJ* 2107a, 1853, 1848
Mimosa hystrix (Small ex Britton & Rose) B. L. Turner, (T) *MM* 5443; *PH* 009
Mimosa latidens (Small) B. L. Turner, (H) *LB* 27139, 27449
Mimosa strigillosa Torr. & A. Gray, (T) *DJ* 1847
Rhynchosia difformis (Elliott) DC., (H T) *LB* 27464, 18657; *GW* 2430b; *DJ* 1988a
Rhynchosia latifolia Nutt. ex. Torr. & A. Gray, (H) *DJ* 1691
Rhynchosia reniformis DC., (H) *LB* 27127; *MM* 5392, 5460
Senna obtusifolia (L.) Irwin & Barneby, (T) *DJ* 1855
 **Senna occidentalis* (L.) Link, (T) *DJ* 2022
Sesbania drummondii (Rydb.) Cory, (T) *DJ* 1779
Strophostyles helvula (L.) Elliott, (T) *LB* 27546
Strophostyles umbellata (Muhl. ex Willd.) Britton, (H T) *MM* 5785, 5746; *LB* 27097; *GW* 2760
Stylosanthes biflora (L.) Britton, Sterns & Poggenb., (T) *MM* 5051, 5454
Tephrosia onobrychoides Nutt., (T) *LB* 27584
Tephrosia virginiana (L.) Person, (H) *DJ* 1659; *LB* 27082
 **Trifolium campestre* Schreb., (H) *MM* 5248
 **Trifolium repens* L., (H) *MM* 6041
Wisteria frutescens (L.) Poir., (H T) *MM* 5311; *DJ* 1786; *LB* 27112
Zornia bracteata J. F. Gmel., (H T) *GW* 2746; *DJ* 1988, 1988a; *MM* 6045

FAGACEAE

Castanea pumila (L.) Mill. var. *pumila*, (T) *MM* 5807
Fagus grandifolia Ehrh., (H T) *MM* 5115, 5264; *LB* 27493
Quercus alba L., (H T) *LB* 27480; *MM* 5063, 4977, 5422
Quercus falcata Michx., (H T) *MM* 4956, 5382, 5368; *LB* 27564
Quercus hemisphaerica W. Bartram ex Willd., (H) *MM* 4984, 4957, 5406; *LB* 27502
Quercus incana W. Bartram, (H) *MM* 5394, 5396; *LB* 27144
Quercus laurifolia Michx., (H T) *MM* 5074, 5075; *LB* 27497, 27494
Quercus margaretta (Ashe) Ashe, (H T) *LB* 27455; *MM* 5112, 4979, 4995
Quercus marilandica Munchh., (T) *MM* 6051
Quercus michauxii Nutt., (H T) *LB* 27483; *MM* 4982, 5434, 5233
Quercus nigra L., (H) *MM* 4985, 5386
Quercus phellos L., (H) *LB* 27485
 +*Quercus velutina* Lam., (T) *PH* 313
Quercus virginiana Mill., (H) *LB* 27468

GENTIANACEAE

Bartonia verna (Michx.) Raf. ex Barton, (T) *MM* 5670
Sabatia gentianoides Elliott, (H T) *MM* 5670, 4007

GERANIACEAE

Geranium carolinianum L., (H T) *MM* 6066, 6058, 6054

GROSSULARIACEAE

Itea virginica L., (H T) *LB* 27473a, 27092; *GW* 2632

HALORAGACEAE

Myriophyllum pinnatum (Walter) Britton, Sterns & Poggenb., (T) *GW* 2308
Proserpinaca palustris L., (T) *MM* 5776
Proserpinaca pectinata Lam., (H T) *GW* 2670b; *LB* 18658

HAMMAMELIDACEAE

Hamamelis virginiana L., (H T) *MM* 5010, 5436, 5267
Liquidambar styraciflua L., (H T) *LB* 27496; *MM* 4997, 5383, 5297

HIPPOCASTANACEAE

Aesculus pavia L., (H) *MM* 5234

HYDROPHYLLACEAE

Hydrolea ovata Nutt. ex Choisy, (H T) *MM* 5779; *GW* 2683

HYPERICACEAE

Hypericum drummondii (Grev. & Hook.) Torr. & A. Gray, (H T) *DJ* 1997; *PH* 901136
Hypericum crux-andreae (L.) Crantz, (T) *DJ* 1702
Hypericum galioides Lam., (T) *MM* 5663, 3502; *LB* 6681
Hypericum gentianoides (L.) Britton, Sterns & Poggenb., (T) *MM* 5751; *LB* 5580
Hypericum gymnanthum Engelm. & A. Gray, (T) *KC* 38
Hypericum hypericoides (L.) Crantz, (H T) *MM* 5055, 4983
Hypericum mutilum L., (H) *LB* 27122
Triadenum tubulosum (Walter) Gleason, (H) *MM* 5921, 5638; *LB* 27451, 27103
Triadenum walteri (J. G. Gmel.) Gleason, (H T) *MM* 5814; *LB* 27462, 27451; *GW* 2893

IRIDACEAE

Alophia drummondii (R. A. Graham) R. C. Foster, (T) *MM* 5061
Sisyrinchium angustifolium Mill., (T) *MM* 5412
Sisyrinchium campestre E. P. Bicknell, (T) *MM* 5220; *GW* 2545
Sisyrinchium rosulatum E. P. Bicknell, (H T) *MM* 5458; *GW* 2477
Sisyrinchium sagittiferum E. P. Bicknell, (H T) *MM* 6067, 6044

JUGLANDACEAE

Carya aquatica (Michx. f.) Nutt., (H) *MM* 5640, 5639
Carya cordiformis (Wangenh.) K. Koch, (H) *MM* 5926; *LB* 27456
Carya glabra (Mill.) Sweet, (H) *DJ* 1984, 1985
Carya texana Buckley, (H) *MM* 5654, 5655, 5164; *LB* 27132
Carya tomentosa (Lam. ex Poir.) Nutt., (H T) *MM* 5815, 5433; *DJ* 1987; *LB* 27142

JUNCACEAE

Juncus acuminatus Michx., (T) *DJ* 1747
Juncus dichotomus Elliott, (T) *DJ* 2099, 1862
Juncus marginatus Rostk., (T) *DJ* 1860, 1767
Juncus repens Michx., (T) *MM* 5778; *DJ* 1836
Juncus scirpoides Lam., (T) *DJ* 2032, 2089, 1768, 1887
Juncus tenuis Willd., (H) *LB* 27115
Juncus validus Coville, (T) *MM* 5067; *DJ* 2091, 1763

LAMIACEAE

- Hedeoma drummondii* Benth., (H) *GW* 2617a
Hyptis alata (Raf.) Shinnery, (T) *MM* 5071, 3625; *DJ* 1759, 1899
Lycopus rubellus Moench, (T) *MM* 5805; *GW* 2867
Lycopus virginicus L., (H T) *GW* 2894; *DJ* 2082, 2087
Monarda punctata L., (H T) *MM* 5816, 5145
**Perilla frutescens* (L.) Britton, (H) *LB* 8149, 27147
Physostegia digitalis Small, (T) *DJ* 1777, 1722
Prunella vulgaris L., (T) *MM* 5467
Pycnanthemum albescens Torr. & A. Gray, (T) *DJ* 1856
Salvia azurea var. *grandiflora*. Michx. ex Lam., (T) *MM* 5180; *GW* 2899; *LB* 27578
Salvia lyrata L., (H T) *MM* 4981, 5254
Scutellaria cardiophylla Engelm. & A. Gray, (H) *GW* 2654
Scutellaria elliptica Muhl. ex Spreng., (H) *MM* 5377, 5356; *LB* 27149, 18629
Scutellaria integrifolia L., (H T) *MM* 3881, 5440; *GW* 2612
Stachys crenata Raf., (H) *MM* 5308
Stachys tenuifolia Willd., (H) *GW* 2674
Teucrium canadense L., (H) *DJ* 1670
Trichostema dichotomum L., (H T) *MM* 5914, 5899, 5817, *CL* 901185
Trichostema setaceum Houtt., (H) *GW* 2376

LAURACEAE

- Persea borbonia* (L.) Spreng., (H) *DJ* 1668
Persea palustris (Raf.) Sarg., (H T) *MM* 5918, 5195, 5181, 5105
Sassafras albidum (Nutt.) Nees, (H) *LB* 27080

LENTIBULARIACEAE

- Pinguicula pumila* Michx., (H T) *MM* 5094, 5303, 3790
Utricularia subulata L., (T) *MM* 5222; *LB* 11091

LILIACEAE

- Aletris aurea* Walter, (T) *MM* 3629
Allium canadense L. var. *mobile* (Regel) Ownbey, (H) *MM* 5373
Hypoxis curtissii Rose, (H T) *MM* 5783, 5438; *GW* 2670; *DJ* 1737
Hypoxis hirsuta (L.) Coville, (T) *MM* 3720
Hypoxis rigida Chapm., (T) *GW* 2757
Hypoxis sessilis L., (T) *DJ* 2034
*+*Lilium formosanum* Wallace, (T) *DJ* 1896
Nothoscordum bivalve (L.) Britton, (T) *MM* 529; *SE* 2014
*+*Ophiopogon jaburan* Lodd., (H) *DJ* 1797
Schoenolirion croceum (Michx.) Wood, (T) *MM* 3792
Triantha racemosa (Walter) Small, (T) *MM* 3513; *PH* 011
+*Trillium recurvatum* Beck, (H) *MM* 5318

LINACEAE

- Linum medium* (Planch.) Britton var. *texanum* (Planch.) Fernald, (H T) *MM* 5072, 5347; *DJ* 2051
Linum striatum Walter, (T) *GW* 2427

LOGANIACEAE

- Gelsemium sempervirens* (L.) J. St.-Hil., (H T) *MM* 5057, 5236
Mitreola petiolata (J. F. Gmel.) Torr. & A. Gray, (T) *MM*

5787; *DJ* 1758

Mitreola sessilifolia (J. F. Gmel.) G. Don, (T) *MM* 5773, 3510

LYCOPODIACEAE

Lycopodiella appressa (Chapm.) Cranfill, (T) *MM* 3506

LYGODIACEAE

**Lygodium japonicum* (Thumb. ex Murr.) Sw., (H T) *MM* 5119, 5225; *LB* 27094

LYTHRACEAE

Ammannia coccinea Rottb., (T) *GW* 2855
**Cuphea carthagenensis* (Jacq.) J. F. Macbr., (T) *MM* 5812, 5650; *WC* 10841; *GW* 2432
Rotala ramosior (L.) Koehne, (H) *DJ* 1938

MAGNOLIACEAE

Magnolia grandiflora L., (H T) *LB* 27489; *MM* 4999, 5266
Magnolia virginiana L., (T) *MM* 5085

MALVACEAE

Hibiscus moscheutos L., (T) *GW* 2560
Malvaviscus arboreus Dill. ex Cav. var. *drummondii* (Torr. & A. Gray) Schery, (H) *MM* 5633; *GW* 2836; *LB* 27136
Sida rhombifolia L., (H) *MM* 5645
Sida spinosa L., (T) *DJ* 2056

MELASTOMATACEAE

Rhexia lutea Walter, (T) *MM* 3944; *DJ* 1714
Rhexia mariana L., (T) *MM* 5756, 3942; *GW* 2753, 2873
Rhexia petiolata Walter, (T) *GW* 2433

MENISPERMACEAE

Cocculus carolinus (L.) DC., (T) *GW* 2646

MOLLUGINACEAE

Mollugo verticillata L., (H) *MM* 5003; *DJ* 1675

MONOTROPACEAE

Monotropa uniflora L., (T) *MM* 5892; *SE* 2033

MORACEAE

Morus rubra L., (H T) *MM* 5769, 5427; *GW* 2464b, 2621

MYRICACEAE

Morella caroliniensis (Mill.) Small, (H T) *MM* 5092, 5424; *DJ* 1748
Morella cerifera (L.) Small, (T) *MM* 5093, 5246; *GW* 2833

OLEACEAE

Chionanthus virginicus L., (T) *MM* 6061
Forestiera acuminata (Michx.) Poir., (T) *GW* 2293
Fraxinus americana L., (H T) *MM* 5808; *GW* 1446a, 2454; *LB* 27096
Fraxinus caroliniana Mill., (H) *DJ* 1970
Fraxinus pennsylvanica Marshall, (H T) *MM* 5791, 5792; *LB* 27461a
**Ligustrum sinense* Lour., (H) *MM* 5385; *LB* 27105

ONAGRACEAE

Gaura lindheimeri Engelm. & A. Gray, (H) MM 5671
Gaura longiflora Spach, (H T) MM 5889, 5141; DJ 2103
Ludwigia alternifolia L., (T) DJ 1772
Ludwigia decurrens Walter, (T) GW 2755a, 2861
Ludwigia glandulosa Walter, (H T) GW 2672, 2762; DJ 1986
Ludwigia hirtella Raf, (T) DJ 1770

Ludwigia linearis Walter, (H T) MM 5781, 5668, 5069; GW 2871
+*Ludwigia microcarpa* Michx., (T) DJ 1885
Ludwigia octovalvis (Jacq.) Raven, (H) DJ 2008
Ludwigia palustris (L.) Elliott, (H) DJ 1943
Ludwigia pilosa Walter, (H T) GW 2758; MM 3599; DJ 1979
Oenothera biennis L., (H T) DJ 2054, 2110
Oenothera laciniata Hill, (T) MM 6065
Oenothera mexicana Spach, (H) MM 5380

OPHIOGLOSSACEAE

Botrychium biternatum (Sav.) Underwood, (H T) MM 5909, 5299; LB 27467
Botrychium virginianum (L.) Sw., (H) GW 2667

ORCHIDACEAE

Calopogon tuberosus (L.) Britton, Sterns & Poggenb., (T) MM 3945
Spiranthes cernua (L.) L. C. Rich., (T) MM 5897, 5903; LB 27531
Spiranthes tuberosa Raf., (T) PH 312
Spiranthes vernalis Engelm. & A. Gray, (H) MM 5376
Tipularia discolor (Pursh) Nutt., (T) MM 5296

OROBANCHACEAE

Epifagus virginiana (L.) Barton, (T) MM 5257

OSMUNDACEAE

Osmunda cinnamomea L., (T) MM 3794; DJ 1846
Osmunda regalis L. var. *spectabilis* (Willd.) A. Gray, (T) MM 3793

OXALIDACEAE

+*Oxalis corniculata* L. var. *wrightii* (A. Gray) B. L. Turner, (T) GW 2524; MM 5206, 5447, 5276
**Oxalis debilis* Kunth var. *corymbosa* (DC.) Lourteig, (T) DJ 1771
Oxalis lyonii Pursh, (T) M 5252
Oxalis violacea L., (T) MM 5193, 5469

PASSIFLORACEAE

Passiflora lutea L., (H) MM 5674, 5169; LB 27450, 27154

PHYTOLACCACEAE

Phytolacca americana L., (H T) MM 5813; GW 306

PINACEAE

Pinus echinata Mill., (H T) MM 5242; GW 822; LB 27067
**Pinus elliottii* Engelm., (T) MM 5223
Pinus palustris Mill., (T) MM 5088; GW 823, 917
Pinus taeda L., (H) MM 4959, 5243

PLANTAGINACEAE

Plantago aristata Michx., (H) GW 2610a
**Plantago major* L., (T) LB 27151
Plantago virginica L., (H) MM 5390, 5305; GW 2609a

PLATANACEAE

Platanus occidentalis L., (H) MM 5166

POACEAE

Agrostis elliottiana Schult., (H) GW 2547
Agrostis hyemalis (Walter) Britton, Sterns & Poggenb., (H T) GW 2552; DJ 1884
Agrostis perennans (Walter) Tuck., (H T) DJ 1952, 2080
Andropogon gerardii Vitman, (T) KC 103
Andropogon gyrans Ashe var. *gyrans*, (H) GW 2369b
Andropogon glomeratus (Walter) Britton, Sterns & Poggenb., (T) MM 6060
Andropogon ternarius Michx., (T) PH 901129, 901131; GW 2904
Andropogon virginicus L., var. *virginicus*, (H T) MM 5916; GW 2369a; LB 27527, 8159
Anthaenantia texana (Nutt.) Kral, (T) LB 6679, 27542; GW 2900; MM 3619
Aristida desmantha Trin. & Rupr., (H) GW 2361, 2383, 2828
Aristida lanosa Muhl. ex Willd., (H) GW 2362, 2835, 2393, 2825
Aristida longispica Poir. var. *geniculata* (Raf.) Fernald, (H) GW 2824
Aristida longispica Poir. var. *longispica*, (T) LB 27533
Aristida palustris (Chapm.) Vasey, (T) MM 3618; LB 19685
Aristida purpurascens Poir. var. *purpurascens*, (T) KC 126
Aristida purpurascens Poir. var. *virgata* (Trin.) Allred, (T) MM 5744, 3498; LB 27537, 19683
Arundinaria gigantea (Walter) Muhl., (H) MM 5168, 5265, GW 1305; LB 27488
Axonopus fissifolius (Raddi) Kuhl., (H T) MM 5198, 5111, LB 27104; GW 2669b
**Briza minor* L., (H T) MM 5306, 5274; GW 2543
Cenchrus spinifex Cav., (H) DJ 1674
Chasmanthium latifolium (Michx.) Yates, (H T) MM 5794; LB 27495
Chasmanthium laxum (L.) Yates var. *laxum*, (H T) MM 5177, 5172, 5679, 5753
Chasmanthium laxum (L.) Yates var. *sessiliflorum* (Poir.) Wipff & S. Jones, (H) MM 5174, 4960; GW 2678
Coelorachis rugosa (Nutt.) Nash, (T) MM 5199; GW 2686
**Cynodon dactylon* (L.) Pers., (T) DJ 1761
Dichanthelium aciculare (Desv. ex Poir.) Gould & C. A. Clark var. *aciculare*, (T) LB 27501
Dichanthelium aciculare (Desv. ex Poir.) Gould & C. A. Clark var. *angustifolium* (Elliott) S. L. Hatch, (H T) DJ 2061, 2065
Dichanthelium acuminatum (Sw.) Gould & C. A. Clark var. *acuminatum*, (T) MM 5465, 5452; Brown 16013
Dichanthelium acuminatum (Sw.) Gould & C. A. Clark var. *longiligulatum* (Nash) Gould & C. A. Clark, (H) MM 5366
Dichanthelium boscii (Poir.) Gould & C. A. Clark, (H) MM 5387; LB 27107, 18635
Dichanthelium commutatum (Schult.) Gould ssp. *commutatum*, (H T) MM 5420, 5098; LB 27501; DJ 1935
Dichanthelium consanguineum (Kunth) Gould & C. A. Clark, (T) MM 5106

Dichanthelium depauperatum (Muhl.) Gould, (H) *LB* 27145
Dichanthelium dichotomum (L.) Gould var. *dichotomum*, (T) *MM* 5097, 5416, 5417
Dichanthelium dichotomum (L.) Gould var. *microcarpon*, (T) *DJ* 1966
Dichanthelium laxiflorum (Lam.) Gould, (H T) *MM* 5315; *LB* 19682, 11088
Dichanthelium oligosanthes (Schult.) Gould, (T) *LB* 16012
Dichanthelium ovale (Elliott) Gould & C. A. Clark ssp. *ovale* (T) *MM* 6277
Dichanthelium polyanthes Mohlenbr., (T) *LB* 11089; *MM* 5453
Dichanthelium scabriusculum (Elliott) Gould & C. A. Clark, (T) *MM* 3938 and at SBSC 3949
Dichanthelium sphaerocarpon (Elliott) Gould, (H) *DJ* 2001
Digitaria ciliaris (Retz.) Koel., (H T) *MM* 5647, 5648; *GW* 2851; *LB* 27595
Digitaria cognata (Schult.) Pilg., (H T) *GW* 2370, 2902; *Cl* 901192
**Digitaria ischaemum* (Schreb.) Schreb., (T) *LB* 27525; *PH* 901137
Digitaria filiformis (L.) Koel. var. *villosa* (Walter) Fernald, (H) *MM* 5925; *LB* 27453; *GW* 2368, 2384
**Echinochloa colona* (L.) Link, (T) *GW* 2854
**Eleusine indica* (L.) Gaertn., (T) *LB* 27544
Eragrostis elliottii S. Wats., (T) *KC* 105
Eragrostis hirsuta (Michx.) Nees, (H) *MM* 4971
Eragrostis hypnoides (Lam.) Britton, Sterns & Poggenb., (H) *GW* 2681
Eragrostis intermedia Hitchc., (T) *DJ* 1849
Eragrostis lugens Nees, (T) *DJ* 2028, 2024
Eragrostis refracta (Muhl.) Scribn., (T) *MM* 3623; *GW* 2434, 2901
Eragrostis secundiflora J. Presl & C. Presl ssp. *oxylepis* (Torr.) S. D. Koch, (H T) *MM* 5658, 5661; *DJ* 2057, 2055
Eragrostis spectabilis (Pursh) Steud., (T) *MM* 5743, 5900; *DJ* 2021
**Eremochloa ophiuroides* (Munro) Hack., (T) *DJ* 1844
Eustachys petraea (Sw.) Desv., (H) *DJ* 1998
Gymnopogon ambiguus (Michx.) Britton, Sterns & Poggenb., (T) *CL* 901183
Leersia hexandra Sw., (T) *DJ* 1838
Leersia virginica Willd., (T) *DJ* 1751
Melica mutica Walter, (H T) *MM* 4966, 5268; *GW* 2451, 2553
Oplismenus hirtellus (L.) Beauvis., (T) *LB* 27577
Panicum anceps Michx., (H T) *MM* 5757, 5646; *DJ* 1940, *LB* 27085a
Panicum brachyanthum Steud., (T) *MM* 5901, 3634; *LB* 27522, *CL* 901117, 901193
Panicum gymnocarpon Elliott, (T) *DJ* 1744
Panicum rigidulum Bosc ex Nees, (H T) *MM* 5797; *DJ* 1816, *LB* 27085
Panicum tenerum Beyr. ex Trin., (H T) *MM* 5657, 5095; *DJ* 2007
Panicum verrucosum Muhl., (T) *MM* 3634b
Paspalum dilatatum Poir., (T) *DJ* 1762
Paspalum floridanum Michx., (T) *MM* 3626; *LB* 27555
Paspalum langei (Fourn.) Nash, (H) *DJ* 1698
Paspalum laeve Michx., (T) *LB* 27536, 27539
**Paspalum notatum* Flugge, (H) *MM* 4969
Paspalum plicatulum Michx., (H T) *MM* 5656, 5103, 5370;

GW 2664
Paspalum praecox Walter, (T) *MM* 3933, 3719, 3937
Paspalum repens Bergius, (H T) *DJ* 1975, 2081
Paspalum setaceum Michx., (H T) *GW* 2381, 2363; *LB* 27079, 27140
**Paspalum urvillei* Steud., (T) *MM* 5191, 5066
Piptochaetium avenaceum (L.) Parodi, (H T) *MM* 5255, 5408; *GW* 2546
**Poa annua* L., (T) *MM* 5275, 5290
Poa autumnalis Muhl, ex Elliott, (H) *GW* 2523a, 2551
Saccharum giganteum (Walter) Pers., (T) *DJ* 1830
Schizachyrium scoparium (Michx.) Nash var. *divergens* (Hack.) Gould, (H T) *MM* 5201; *GW* 2364, 2371; *LB* 27524
Setaria parviflora (Poir.) Kerguelen, (T) *DJ* 1783
Sorghastrum elliottii (Mohr.) Nash, (T) *KC* 108
Sorghastrum nutans (L.) Nash, (H) *DJ* 1975
Sphenopholis obtusata (Michx.) Scribn., (H) *MM* 5362
Sporobolus clandestinus (Biehler) Hitchc., (H) *LB* 27505
Sporobolus compositus (Poir.) Merr. var. *macer* (Trin.) Kartesz & Gandhi, (T) *DJ* 2069
Sporobolus indicus (L.) R. Br., (H) *LB* 27101
Steinchisma hians (Elliott) Nash, (T) *DJ* 1766
Sporobolus junceus (Beauvis.) Kunth, (H T) *GW* 2365; *LB* 27532
Tridens ambiguus (L.) Schult., (H T) *MM* 5677, 3620, 5666; *DJ* 2015
Tridens flavus (L.) Hitchc. var. *flavus*, (H T) *DJ* 1991, 2026
Tridens strictus (Nutt.) Nash, (H) *MM* 5666
Urochloa platyphylla (C. Wright) R. D. Webster, (T) *DJ* 2047
Urochloa texana (Buckley) R. D. Webster, (T) *DJ* 2045
Vulpia octoflora (Walter) Rydb., (H) *GW* 2622

POLEMONIACEAE

Phlox pilosa L., (T) *MM* 5455

POLYGALACEAE

Polygala cruciata L., (T) *MM* 3943
Polygala leptocaulis Torr. & A. Gray, (H) *DJ* 2014, 2005
Polygala mariana Mill., (T) *MM* 5078
Polygala polygama Walter, (T) *MM* 5461; *DJ* 1857
Polygala ramosa Elliott, (T) *MM* 5081

POLYGONACEAE

Brunnichia ovata (Walter) Shinnery, (H) *DJ* 1643
Eriogonum longifolium Nutt. var. *longifolium*, (H) *DJ* 1655
Polygonum punctatum Elliott, (H) *MM* 5927, 5637; *LB* 27458; *DJ* 1686
Polygonum hydropiperoides Michx., (T) *DJ* 1877, 1820, 1841

POLYPODIACEAE

Pleopeltis polypodioides Andrews & Windham ssp. *michauxiana* (Weath.) Andrews & Windham (H) *MM* 5235; *LB* 27134

PORTULACACEAE

Portulaca pilosa L., (H) *DJ* 1695

PRIMULACEAE

**Anagallis arvensis* L., (H) *MM* 5372
Anagallis minima (L.) Krause, (T) *DJ* 1845
Lysimachia radicans Hook., (H T) *MM* 5782, 5641; *GW*

RANUNCULACEAE

- Clematis crispa* L., (H) GW N05, 2609b
Clematis reticulata Walter, (H T) LB 27478; MM 5910, 4991
 **Clematis ternifolia* DC., (H) DJ 2112

RHAMNACEAE

- Berchemia scandens* (Hill) K. Koch, (H T) MM 5765, 5118;
 LB 27466, 27133
Ceanothus americanus L., (T) DJ 2027
Rhamnus caroliniana Walter, (T) MM 5186, PH 012

ROSACEAE

- Agrimonia microcarpa* Wallr., (H) GW 2747; LB 27116
Crataegus brachyacantha Sarg. & Engelm., (T) MM 5076
Crataegus marshallii Egglest., (H T) MM 5229; LB 27479,
 27143
Crataegus opaca Hook. & Arn., (T) LB 27538; SE 2008, 2011;
 DJ 1863
Crataegus spathulata Michx., (T) DJ 2097
 **Duchesnea indica* (Andr.) Focke, (T) MM 5457, 5293
Photinia pyrifolia (Lam.) Robertson & Phipps, (T) MM 3759
Prunus caroliniana (Mill.) Aiton, (H) DJ 1646
Prunus gracilis Engelm. & A. Gray, (T) DJ 1756
Prunus serotina Ehrh., (H) MM 5381
Prunus umbellata Elliott, (H T) GW 1667, 2453; MM 6049
Rubus trivialis Michx., (T) MM 5287

RUBIACEAE

- Cephalanthus occidentalis* L., (H) MM 4990
Diodia teres Walter, (H T) MM 5750, 5068; LB 27093; CL
 901182
Diodia virginiana L., (T) MM 5777, 5179; LB 27530
Galium aparine L., (H) MM 6040
Galium circaeazans Michx., (H) GW 2623
Galium hispidulum Michx., (H) MM 5929; LB 27509
Galium pilosum Aiton, (H) GW 2657
Galium tinctorium (L.) Scop., (H) MM 6038
Houstonia micrantha (Shinners) Terrell, (T) MM 5273
Houstonia pusilla Schoepf, (T) MM 5272; SE 2016
Mitchella repens L., (T) MM 5108, 5259; LB 27109
Oldenlandia uniflora L., (T) GW 2843
Richardia scabra L., (T) DJ 2020
 **Sherardia arvensis* L., (T) SE 2027
Stenaria nigricans (Lam.) Terrell (T) PH 242

RUTACEAE

- Ptelea trifoliata* L., (H T) MM 5466; GW 1126, 2648
 **Poncirus trifoliata* (L.) Raf., (H) DJ 2108
Zanthoxylum clava-herculis L., (H) MM 5163; GW 2550a

SALICACEAE

- Salix nigra* Marshall, (T) DJ 1889; MM 6050

SAPOTACEAE

- Sideroxylum lanuginosum* Michx., (H) MM 4989, 5398, 5241

SARRACENIACEAE

- Sarracenia alata* Alph.. Wood, (T) MM 5084; PH 541

SAURURACEAE

- Saururus cernuus* L., (H T) LB 27471; MM 5428

SCROPHULARIACEAE

- Agalinis fasciculata* (Elliott) Raf., (T) GW 2750; LB 27535
Agalinis oligophylla Pennell, (T) GW 2896
Agalinis purpurea (L.) Pennell, (H T) MM 5906; GW 2830; LB
 27541, 14886
Agalinis viridis (Small) Pennell., (H) LB 6663
Aureolaria flava (L.) Farw. (H) MM 5639
Aureolaria grandiflora (Benth.) Pennell, (H) MM 5764, 5651;
 GW 2679; LB 27074
Bacopa caroliniana (Walter) B. L. Robins., (T) DJ 1821
Buchnera americana L., (H T) MM 5662; DJ 2038
Gratiola brevifolia Raf., (T) GW 2765; MM 3936
Gratiola pilosa Michx., (H) GW 2655
Gratiola virginiana L., (H T) MM 5228; DJ 1944, 1947
 *+*Lindernia crustacea* (L.) F. Muell., (T) DJ 1881
Lindernia dubia (L.) Pennell, (H) DJ 1937, 1982, 1942, 1985
Mecardonia acuminata (Walter) Small, (H T) GW 2844, 2859,
 LB 27548; DJ 1936
Micranthemum umbrosum (J. G. Gmel.) S. F. Blake, (H) DJ 1949
Mimulus alatus Aiton, (H) DJ 1791
Nuttallanthus canadensis (L.) D. A. Sutton, (H) GW 2554
Penstemon laxiflorus Pennell, (H T) MM 5446; GW 2544
Scoparia dulcis L., (H T) MM 5763, 5780, 5672; WC 10842
 **Verbascum thapsus* L., (T) GW 2647
 **Veronica arvensis* L., (H) MM 5249

SELAGINELLACEAE

- Selaginella apoda* (L.) Spring, (H) MM 5314

SMILACACEAE

- Smilax bona-nox* L., (H) DJ 1688
Smilax glauca Walter, (H T) MM 5411, 4976; GW 2877; LB
 27582
Smilax laurifolia L., (T) MM 3632
Smilax pumila Walter, (H T) LB 27473, 27465; MM 5059,
 5289
Smilax rotundifolia L., (H T) MM 4980, 5253, 6068
Smilax smallii Morong, (H T) MM 4986, 5113, 5278; DJ
 1741

SOLANACEAE

- Datura wrightii* Regel, (T) KC 85
Physalis heterophylla Nees, (H T) GW 2644, N11; DJ 1892
Physalis pubescens L., (T) DJ 1882
Physalis pumila Nutt., (H) MM 5369, 5404; GW 2660
 **Solanum capsicastrum* Link ex Schauer, (T) DJ 2084
Solanum carolinense L., (H T) MM 5804; LB 27114
Solanum ptychanthum Dunal, (H) GW 2550b

STYRACACEAE

- Halesia diptera* L., (H T) MM 5232, 5240; DJ 2076; LB
 27492
Styrax americanus Lam., (H) GW 2616
Styrax grandifolius Aiton, (T) DJ 2076, 2095, 2078

SYMPLOCACEAE

Symplocos tinctoria (L.) L' Her., (H T) MM 5187, 5300; LB 2711

THELYPTERIDACEAE

+*Thelypteris hispidula* (Dcne.) C. F. Reed var. *versicolor* (R. St. John) Lellinger, (T) DJ 1726

Thelypteris kunthii (Desv.) Morton, (H T) MM 5227; DJ 1950, 1974, 1776

TILIACEAE

Tilia americana L. var. *caroliniana* (Mill.) Castigl., () GW 2297

ULMACEAE

Celtis laevigata Willd., (H) LB 27474, 27069; GW 2625

Planera aquatica J. F. Gmel., (H) LB 27069

Ulmus alata Michx., (H T) MM 5162, 5399; GW 2455; DJ 2043

Ulmus americana L., (H T) DJ 2105, 2070

URTICACEAE

Boehmeria cylindrica (L.) Sw., (H) LB 27087, 27472

Pilea pumila (L.) A. Gray, (T) GW 2906

VALERIANACEAE

Valerianella radiata (L.) Dufr., (H) MM 5250; SE 2015

VERBENACEAE

Callicarpa americana L., (H) MM 4993, 5409

Glandularia canadensis (L.) Nutt., (T) KC 95

**Glandularia pulchella* (Sweet) Tronc., (H T) MM 5152,

Notes:

***Bulbostylis barbata*.** Jones and Wipff (1992) reported this exotic sedge new to Texas from Newton County. Turner et al. (2003) mapped it only in Newton County. Our Tyler County collection is a new county record. At SBSC, there is one additional collection from the Liberty County portion of the Menard Creek Unit.

***Coreopsis intermedia*.** This west gulf coastal plain endemic has appeared on some Texas endangered and threatened species list. Smith (1976) mapped it in six northeastern counties. Turner et al. (2003) mapped it in 15 counties mostly in northeast Texas centering largely in Leon, Freestone, Anderson, and Houston counties. Tyler County is a new county record. At SBSC, there are collections from Harris and Jasper counties that were also not mapped in Turner et al. (2003).

***Dioscorea villosa*.**

We follow Raz (2002) in merging *D. quaternata* with *D. villosa* even though Al-Shehbaz and Schubert (1989) maintained them as distinct species and provided some characters to separate them.

***Dysphania ambrosioides*.** We follow Clemants and Mosyakin (2003) in segregating the glandular *Chenopodium* taxa into the genus *Dysphania*.

***Lilium formosanum*.** Brown and Elsik (2002) reported this exotic lily, as *Lilium longiflorum* Thunb., new to Texas from Newton and Tyler counties. However, in a re-examination of these two collections and the one from the Turkey Creek Unit, we found that the perianth segments were basally papillose on the adaxial surface. This trait is not present in *L. longiflorum* but is present in both *L. formosanum* A. Wallace and *L. philippinense* Baker fide Skinner (2002). The shorter perianth segments and wider leaves best fit the description of *L. formosanum*, but our collections lack the reported wine-purple tinge on the abaxial perianth surface. Skinner (2002) indicated that most reports of *L.*

5370, 5221

Phyla nodiflora (L.) Greene, (H) DJ 1694

Stylodon carneus (Medik.) Moldenke, (H) GW N01

**Verbena brasiliensis* Vell., (H) DJ 1690

Verbena halei Small, (H) GW 2659

VIOLACEAE

Viola lanceolata L., (H T) MM 5302, GW 2538, 2539, 2540

Viola palmata L., (T) MM 5292, 5282, 6048; SE 2013

Viola primulifolia L., (T) MM 3788

VITACEAE

Ampelopsis arborea (L.) Koehne, (H T) MM 5802, 4974; LB 27089

Parthenocissus quinquefolia (L.) Planch., (H T) MM 5110, 5432, 5263

Vitis aestivalis Michx., (H) GW 1451b, N03

Vitis cinerea (Engelm.) Millardet var. *cinerea*, (T) MM 5359, 5470; GW 1451a, 2568

Vitis rotundifolia Michx., (H T) MM 5104, 4965, 5358, 5279

XYRIDACEAE

Xyris ambigua Beyr. ex Kunth, (T) MM 3631; GW 2642b; DJ 1875; LB 27148

Xyris baldwiniana Schult., (T) MM 3879

Xyris jupicai L. C. Rich., (H T) WC 10843; DJ 2046, 1876

Xyris stricta Chapm. var. *obscura* Kral, (H T) MM 3501; DJ 2011, 1866

Xyris torta Sm., (T) MM 5096, 3946

formosanum in the United states are referable to *L. philippinense*, which according to him, is becoming somewhat frequent in Florida especially in the Tallahassee area. For now the correct name to apply to the Texas collections of this escaped lily is problematic.

Lindernia crustacea. Brown and Marcus (1998) reported this Asian native new to Texas from the Trinity River National Wildlife Refuge in Liberty County and Turner et al.(2003) mapped it only in this county. At SBSC there are additional collections from Hardin and Harris counties. Our Tyler County collection adds another county to its Texas distribution.

Ludwigia microcarpa.

Bridges and Orzell (1989) reported this small flowered seedbox new to Texas from Hardin County. Brown and Marcus (1998) reported collections from Hardin and Chambers counties. Our Tyler County collection is a new county record and at SBSC there is also a recent collection from Polk County. It is now known from four Texas counties.

Ophiopogon jaburan.

Kartesz (1999) mapped this Asian native only in Arkansas, and Smith (1988) indicated that it was escaping in areas around Pine Bluff, Arkansas. This species is commonly planted for ground cover and is commonly referred to as monkey grass. The Hardin County collection came from the Kirby Nature Trail near Turkey Creek far from any house or farm land.

***Oxalis corniculata* var. *wrightii*.**

Turner (1994) used the varietal rank for some east Texas populations of yellow-flowered *Oxalis*. The names *O. dillenii* and *O. stricta* have been applied to this complex in Texas. We concur with Turner's taxonomic designation in light of the present state of knowledge regarding the complex.

Quercus velutina.

Although Turner et al. (2003) mapped this species in a number of east Texas counties. It is a rare species in the more southern counties of east Texas. Shade leaf collections of *Q. velutina* and *Q. falcata* are difficult to separate and may account somewhat for the numerous mapped counties. The Tyler County collection, deposited at Rice University, and one from the Lance Rosier Unit in Hardin County are the most southern county records known to us. The label name on the Hardin County collection was *Q. marilandica* and it was subsequently annotated to *Q. velutina* (shade form) by the oak expert D. M. Hunt.

***Thelypteris hispidula* var. *versicolor*.**

Correll and Johnston (1970) called this fern *T. x versicolor*. They considered it a hybrid between *T. dentata* and *T. kunthii* and stated that it was usually found in Texas with one or both of its suspected parents. It is currently treated as a variety of the tropical *T. hispidula* (Alan R. Smith 1993). Turner et al. (2003) mapped it only in San Jacinto, Jasper, and Orange counties. Our Tyler County collection is a new county record.

Trillium recurvatum.

Nixon et al. (1970) and Turner et al. (2003) reported this *Trillium* only from Rusk and Nacogdoches counties. Singhurst et al. (2002) reported an additional collection from Shelby County. Our Hardin County collection is a significant range extension and a new station for this rare species in Texas.

DISCUSSION

There are 123 families and 388 genera for the 738 taxa on the species list. Five families; Asteraceae (96 taxa), Poaceae (98 taxa), Cyperaceae (69 taxa), Fabaceae (45 taxa), and Euphorbiaceae (20 taxa) account for 44% of all taxa

collected. The largest genera are *Rhynchospora* (23 taxa), *Carex* (17 taxa), *Dichanthelium* (16 taxa), *Cyperus* (13 taxa), and *Quercus* (12 taxa).

Thus, while it is the case that our list is incomplete and that a few taxa may no longer exist in the unit, most taxa that have grown in the Turkey Creek Unit during the past quarter century have been collected (probably 90+ percent). We estimate that the Turkey Creek Unit has about 710 to 735 native species/taxa.

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Figure 1. Location of Turkey Creek Unit within the Big Thicket National Preserve, Texas.