

ABSTRACT

An Annotated Checklist of the Vascular Flora of McLennan County, Texas

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A study of the flora of McLennan County, Texas, located in northern East-Central Texas has resulted in the annotated documentation of 1118 species from 131 families. McLennan County contains three physiographic areas: Blackland Prairie, Grand Prairie (including Lampasas Cut Plain and Washita Uplands), and East Cross Timbers. Families with the largest number of species are Asteraceae (141), Poaceae (103), Fabaceae (93), Euphorbiaceae (38), Cyperaceae (39), Lamiaceae (35), and Brassicaceae (32). There are 40 species endemic to Texas and 385 species that are county records.

Noteworthy species include *Cucumis anguria* and *Equisetum arevense* which have been reported for only one other county in Texas and *Cuscuta polygonorum* which occurs in only two other counties in Texas. Another species of interest is *Cheilanthes lanosa*. In Texas, this species is reported only from McLennan County, however it cannot be confirmed with certainty because its voucher specimen cannot be located.

An Annotated Checklist of the Vascular Flora
of McLennan County, Texas

by

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A Thesis

Approved by the Department of Biology

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CHAPTER ONE

Introduction

Study Area

McLennan County is located in northern East-Central Texas and comprises approximately 2747.98 square kilometers of mainly prairie (Templin et al. 1958; Miller et al. 2001). The county's elevation ranges from 106.68 meters (350 feet) above sea level to 281.64 meters (924 feet) above sea level (Miller et al. 2001). The climate zone of the county is humid subtropical with average daily temperatures ranging from 0.06° C (32.1° F) to 35.78° C (96.4° F) (Miller et al. 2001) (Appendix A). Typically, the coldest temperatures occur in January and February, and the warmest temperatures in July and August (Templin et al. 1958; Miller et al. 2001) (Appendix A). Average yearly rainfall for the area is 84.84 centimeters (33.40 inches) with most rain falling during the month of May (Templin et al. 1958; Miller et al. 2001; Handbook of Texas Online, February 2008) (Appendix A). The average growing season (days without frost) is approximately 250 days (Templin et al. 1958; Miller et al. 2001; Handbook of Texas Online, February 2008).

The chief vegetational areas of the county include Blackland Prairie, East Cross Timbers, and Lampasas Cut Plain (also known as Washita Uplands) (Diggs et al. 1999) (Figure 1). Each vegetational area consists of a distinct profile of plants, though current and historical floral compositions are dramatically different. Each of the vegetational areas correlates with physiographic areas of the county. The Lampasas Cut Plain (Washita Uplands) is part of the Grand Prairie physiographic area (Adkins

1924). The Blackland Prairie vegetational area forms a physiographic area of the same name (Adkins 1924). The East Cross Timbers is not geologically represented in the county; however a small area in the northern region of the county includes a deposited extension of soils from the East Cross Timbers from areas north of the county (Adkins 1924; Templin et al. 1958). River alluvial soils area also prevalent in the county but not represented by specific vegetational or physiographic areas (Adkins 1924). Each of the physiographic areas is subtended by specific geologies; Blackland Prairie is subtended by Upper Cretaceous rocks and Grand Prairie is subtended by Lower Cretaceous (Adkins 1924).

Table 1. Geology of the physiographic areas of McLennan County (Adkins 1924; Templin et al. 1958; Yelderman & Cervenka 1992; Diggs et al. 1999, Griffith et al. 2007. Numbers below physiographic areas correspond to level IV ecoregions (Griffith et al. 2007).

Physiographic Area	Parent Rock	Rock Divisions	Formations
Blackland Prairie (32a)	Upper Cretaceous	Gulfian	Austin Chalk Eagle Ford Flags & Shales Taylor
Grand Prairie (29d) with Lampasas Cut Plain (29e)	Lower Cretaceous	Comanchean	Georgetown Edwards Comanche Peak
Balcones and Whiterock Escarpments	Divide Grand Prairie and Blackland Prairie		Austin Chalk Eagle Ford Flags & Shales

Each of the physiographic areas of McLennan County is represented by particular soils, which can be broken down into very specific classifications. A brief description of

general formations and their parent materials is given in Table 1. A general description of the soil series occurring in the county is represented in Figure 3.

Topographic features of the county include the Brazos River, the North, Middle, and South Bosque Rivers, Waco Lake, Tradinghouse Creek Reservoir, Lake Creek Lake, Lake Brazos, and the Bosque (Balcones) and White Rock Escarpments (Adkins 1924; Templin et al. 1958; Miller et al. 2001). All lakes located within McLennan County are reservoirs. The Brazos River flows northwest to southeast, parallel to the eastern edge of the county and is emptied into by the Bosque River, also flowing northwest to southeast. The Balcones and Whiterock escarpments are continuous geological formations separating the Upper Cretaceous rock and Lower Cretaceous rock and thus dividing Blackland Prairie and Grand Prairie (Adkins 1924). As described in Adkins (1924), these formations are west-facing erosional structures that expose Austin Chalk formations and Eagle Ford Flag formations (Table 1).

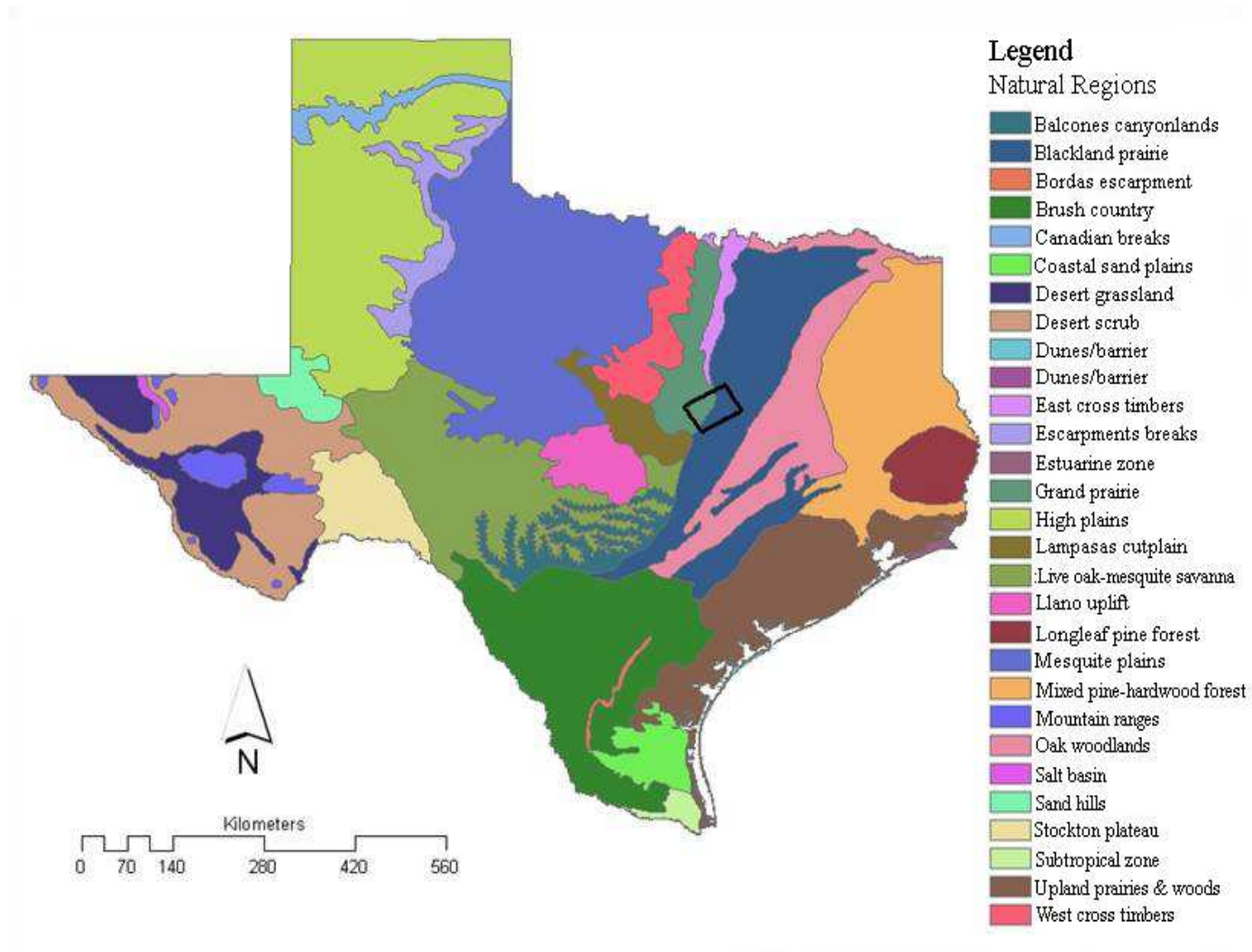


Figure 1 Vegetational (natural) regions of Texas with McLennan County outlined in black. Made using ArcMAP version 9.2.

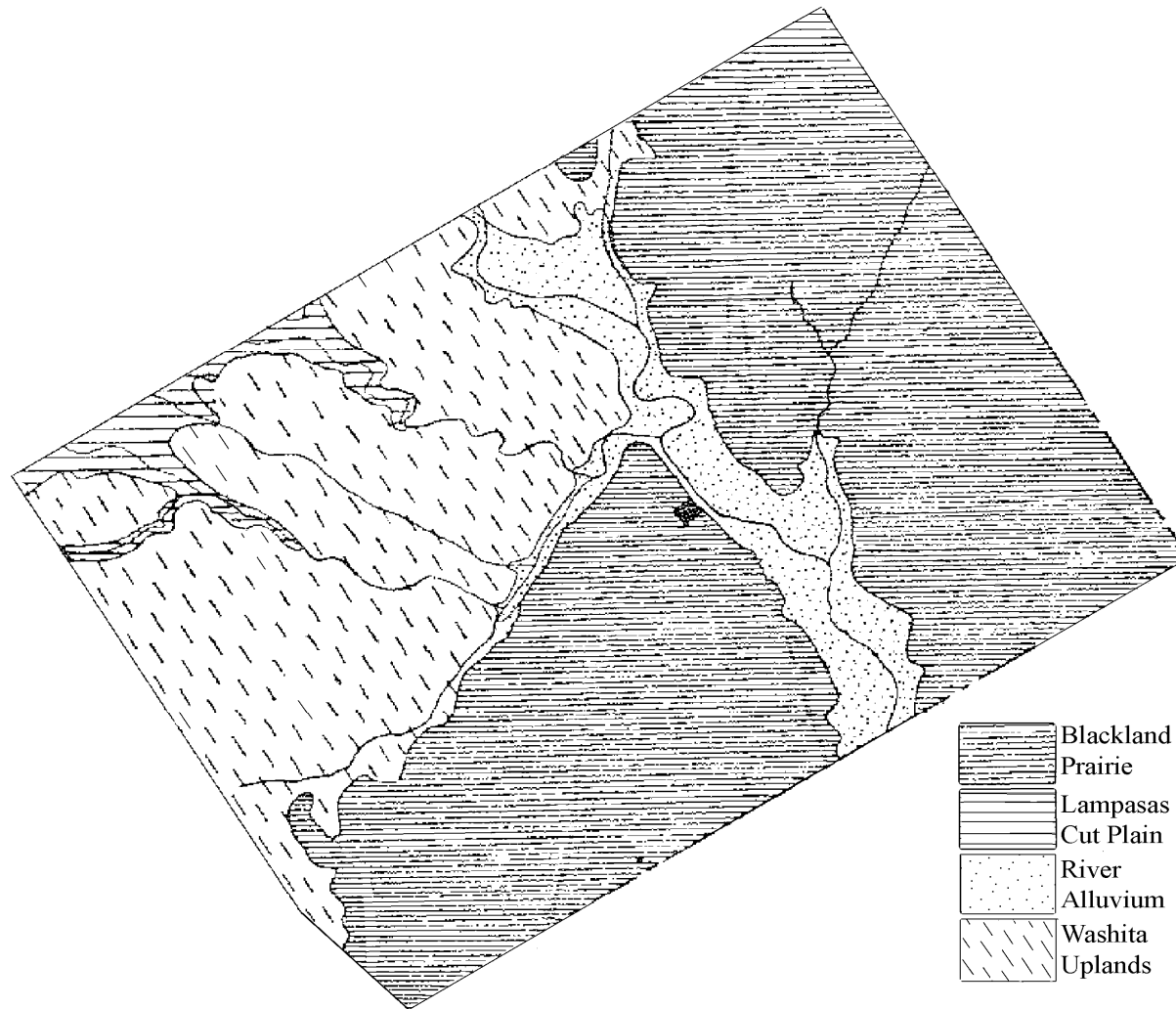


Figure 2 Physiographic areas of McLennan County (adapted from Adkins 1924). City of Waco is bolded.

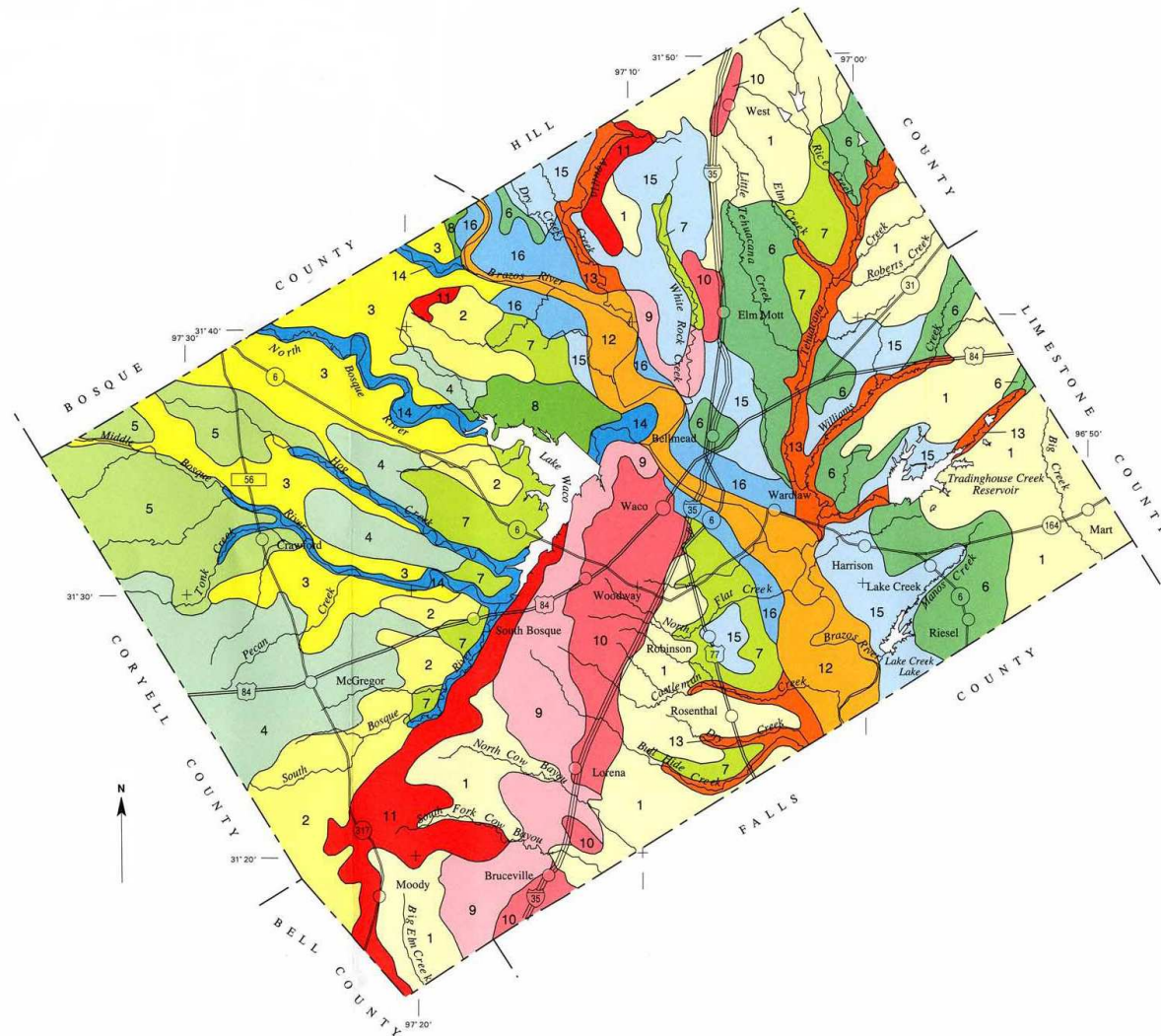


Figure 3 General soils map of McLennan County, Texas (adapted from Miller et al. 2001).

Soil Legend

CLAYEY SOILS FORMED IN RESIDUUM DERIVED FROM SHALE AND MARL; ON UPLANDS

1 Heiden - Houston Black - Ferris

2 Slidell - Sanger

LOAMY AND CLAYEY SOILS FORMED MAINLY IN RESIDUUM DERIVED FROM LIMESTONE; ON UPLANDS

3 Aledo - Eckrant

4 Crawford - Purves

5 Bolar - Denton

LOAMY AND CLAYEY SOILS FORMED IN ALLUVIAL SEDIMENTS ALONG LOCAL STREAMS; ON UPLANDS AND PLEISTOCENE-AGE TERRACES

6 Wilson - Bremond - Mabank

7 Branyon - Burleson

8 Payne

LOAMY AND CLAYEY SOILS FORMED IN RESIDUUM DERIVED FROM CHALK AND MARL; ON UPLANDS

9 Eddy - Stephen

10 Fairlie - Austin

11 Lott - McLennan

LOAMY AND CLAYEY SOILS FORMED IN ALLUVIUM; ON FLOOD PLAINS

12 Weswood - Yahola - Ships

13 Tinn - Ovan

14 Frio - Bosque

SANDY AND LOAMY SOILS FORMED IN ALLUVIAL SEDIMENTS ALONG THE BRAZOS RIVER; ON STREAM TERRACES AND PLEISTOCENE-AGE TERRACES

15 Axtell - Riesel - Minwells

16 Bastsil - Desan - Gholson

Literature Review

European settlement of McLennan County began in 1832, and by 1845 the county was heavily settled (Adkins 1924; Templin et al. 1958; Miller et al. 2001). At that time the Tonkawa, Tehuacana, and Tawakoni (Waco) Native Americans that had occupied the region were mostly driven out (Adkins 1924; Templin et al. 1958; Miller et al. 2001). McLennan County was formally organized in 1850 and was named for Neil McLennan who was the first cattle rancher to register his brand (M) in the county (Adkins 1924; Miller et al. 2001). With settlement came agriculture and alteration to the landscape. The flora of the landscape changed accordingly and continues to undergo change with much of the county converted to farm and pasture land.

Collection and study of the flora of McLennan County has been advanced by botanists such as L. D. Smith, C. L. York, and W. C. Holmes. Published works discussing the flora of McLennan County date back to 1892 with an article by E. N. Plank in "Garden and Forest." The sole effort to describe the flora of the county was by Lula Pace, former Professor of Botany at Baylor University, who published a list of the flora of the county in a University of Texas Bulletin in 1924 (Adkins, 1924). The list includes 420 species and thus inadequately depicts the actual floral diversity of the county. Since then, Gould 1962, Correll and Johnston 1970, Hatch et al. 1990, and Diggs, et al. 1999 have written manuals and checklists that include flora found in McLennan County, and Turner, et al. 2003 have created an atlas of vascular plants of Texas that likewise cite species found in the county. Each of these publications expanded the documented flora for McLennan County, however, since Pace's 1924 document, an exclusive list of McLennan's flora has not been written. The importance of having a

succinct list of the county's flora is discussed by Williams and Lutterschmidt 2006 who expressed the lack of adequate floral representation in herbaria based on species-area relationships. This need is also represented by the inconsistency in herbaria and references with respect to which and how many plants occur in the county. In particular, the University of Texas Plant Resources Center's Flora of Texas Database 2007 lists only 635 species from 104 families for the county, compared to the 1118 species from 131 families that this project has enumerated. With a difference of 483 plant species and 27 families, this project has greatly added to the list of known flora in McLennan County.

CHAPTER TWO

Materials and Methods

Research was conducted and information gathered from several resources regarding the flora, climate, geology, history, and physical characteristics of McLennan County. Literature was also collected to provide information for annotating the checklist.

A preliminary list of McLennan County records was compiled using the Flora of Texas Database, Plant Resources Center, University of Texas, Austin 2007. The database encompasses specimens from both the University of Texas Herbarium (TEX) and the Lundell Herbarium (LL). The Baylor University Herbarium (BAYLU) was canvassed for additional specimens. Questionable specimens were verified and synonyms and duplicate records were deleted. Plant records represented in Turner et al. 2003 not otherwise published were added to the checklist. Additional plants were collected during several field excursions to areas of interest (aquatic, unique soil composition, not yet explored) between August 2006 and August 2008. Particular attention was given to plants expected to grow in McLennan County not represented in herbaria or cited in literature. Nomenclature follows Diggs et al. 1999, Turner et al. 2003, and United States Department of Agriculture (2007).

The final step was annotation of the species list. Notes accompanying each specimen include collector, collection number, herbarium (or source of records) as well as information about nativeness, introduction, invasiveness (weediness), and county record. Native and foreign species introduced as a result of human impact on the environment are discussed as in Pyšek et al. 2004. A brief discussion of plant alliances

within McLennan County based on Diggs et al. 1999 and the NatureServe Ecological Communities and Systems database 2007 is included. Those alliances are listed in relation to the vegetational regions of the county when possible. Information concerning climate and geology was taken from Adkins 1924, Yelderman and Cervenka 1992, Templin et al. 1958, and Griffith et al. 2007.

Using information from Williams and Lutterschmidt 2006, a species-area relationship curve was produced and analyzed. This curve was used to determine if McLennan County has been thoroughly collected based on whether the number of collected specimen is far below, approaching, or exceeding the predicted number for the area.

CHAPTER THREE

Results

Flora

The flora of McLennan County (Appendix I) consists of 1118 species in 131 families and 540 genera. Ferns and their allies are represented by 15 species; gymnosperms are represented by 4 species; monocots 222; dicots 877 (Appendix C). The families having the greatest number of species are Asteraceae (141), Poaceae (103), Fabaceae (93), Cyperaceae (39), Euphorbiaceae (38), Lamiaceae (35), and Brassicaceae (32). Other well-represented families include Apiaceae (27), Scrophulariaceae (27), and Onagraceae (23) (Appendix C). There are 385 species of plants not previously recorded in any published documents (county records), which represents 4.44% of the total number of plants found in the county. Species introduced to the United States, cultivated, and escaped (219) represent 19.59% of the total species of the county. The high percentage of introduced species in the county indicates a high level of disturbance which is evident by the extent of urbanization of the county. McLennan County has 40 species endemic to the state of Texas.

Species-Area Relationship

Williams and Lutterschmidt 2006 explored the species richness of several counties and areas in Texas to compare the predicted species richness of each area to the documented species richness of each area. The purpose of their study was to emphasize

gaps in herbarium collections and the need for continued exploration and documentation of flora that is necessary for conservation. Using documented floral checklists, they plotted, as a logarithmic relationship, documented species richness measurements against the areas (in kilometers squared) from which they came. McLennan County was not included as part of this analysis because of the lack of an updated checklist.

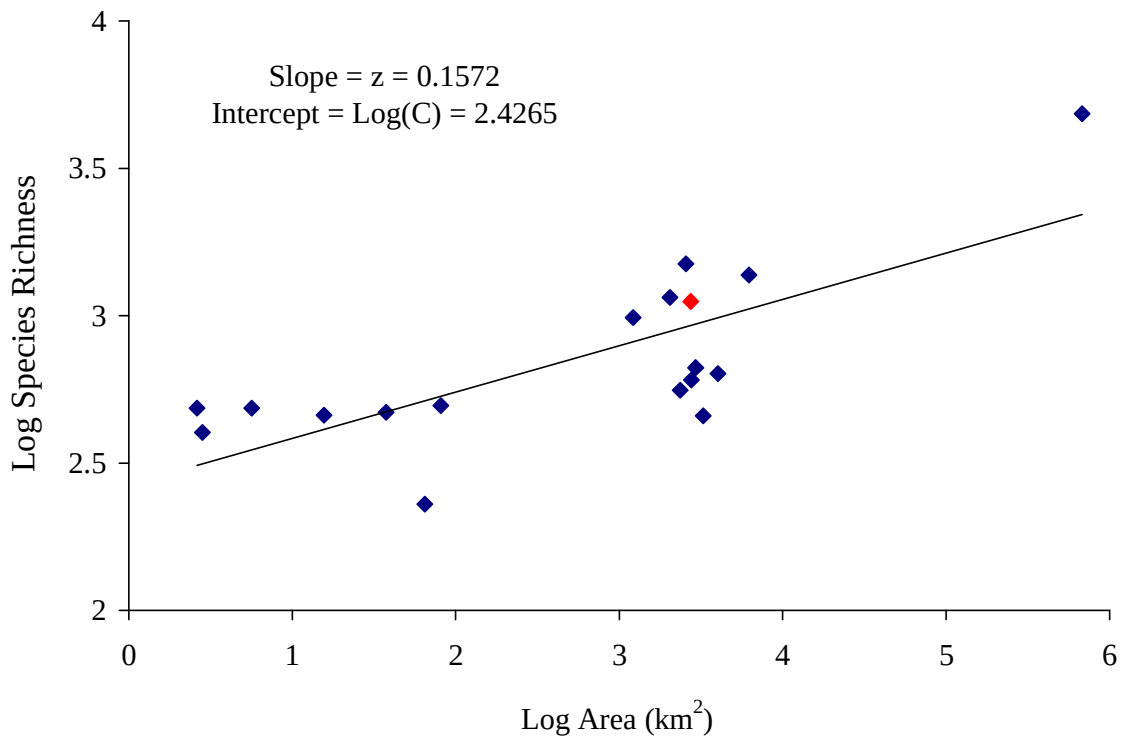


Figure 4 Graph of logarithmic relationship between species richness and area of sampled location. Red square represents the species-area relationship of McLennan County based on the list provided by this paper. Blue diamonds represent 17 counties and areas, including the state of Texas, as reported in Williams and Lutterschmidt (2006).

From the data collected, Williams and Lutterschmidt determined the z and C fitted constant values to use in the species-area relationship formula $S = CA^z$ ($C = 266$; $z = 0.1553$). The fitted constant z represents the slope and the fitted constant C represents the intercept of the linear regression line when $\log A$ (area, x-axis) is plotted against $\log S$

(number of species, y-axis) for each location sampled. Using the data from Table 1 in Williams and Lutterschmidt 2006 and including the area and species richness for McLennan County presented in this paper, a logarithmic species-area relationship was plotted and z and C were recalculated ($z = 0.1572$, $C = 266.9931$). Those values and the area in square kilometers of McLennan County were used in this analysis to determine the predicted species richness for the county. The predicted species richness for the county was found to be 927 (927.0709).

With 1118 species documented for McLennan County, the predicted species richness has been exceeded by 191 plant species, indicating that the county has been well collected and is likely approaching the upper limit of species actually existing in the county. Taking into account that 219 of the species on the list are introduced, cultivated, and escaped leaves 899 naturally occurring species, 28 fewer species than is estimated to occur. According to Williams and Lutterschmidt 2006 a documented species richness that is approaching or exceeding the predicted species richness signifies the thorough collection of an area (Figure 5).

CHAPTER FOUR

Discussion and Conclusions

Species Notations

There are several notations included in the species checklist (Appendix A). Each designation is defined in Pyšek et al. 2004. Those designations include cultivated and introduced species ("alien plants"), weedy species ("weeds"), and endemic plants ("native plants") (Pyšek et al. 2004). Classification of species as introduced and weedy is based on the USDA PLANTS Database (<http://plants.usda.gov>, 18 July 2008). Cultivated species are classified based on the information in the Flora of North Central Texas (Diggs et al. 1999). Endemic classification is based on the Flora of Texas Consortium's list of Vascular Plants Endemic to Texas (<http://botany.csdl.tamu.edu/FLORA/endemics/endemic1.htm>, 20 February 2008). Plants not designated as endemic to Texas and not otherwise designated are considered native to the United States. It is possible that some of these plants are not native but information regarding their classification otherwise is not available. None of the species listed in the checklist is listed as threatened or endangered according to the USDA PLANTS Database (<http://plants.usda.gov>, 18 July 2008). Species that have not previously published for McLennan County are labeled as county records.

Noteworthy Species

Noteworthy species found in McLennan County include those that are at the periphery of their range, those that occur only in very few counties in Texas, and those

that are rare for the area. The first of these to be considered is *Cheilanthes lanosa* (Pteridaceae), the hairy lipfern. The plant has been reported in most of the eastern and central United States, but in Texas has only been collected in McLennan County. The record of the plant has been published in Correll and Johnston 1970 and Diggs, et al. 1999 but the specimen (which belongs to BAYLU), is missing. This author suspects, in agreement with Jack Stanford, former Professor of Biology at Howard Payne University, who studied the specimen (as reported in Diggs, et al., 1999), that the specimen was misidentified. This problem cannot be resolved without inspecting the specimen, thus to be thorough, the specimen is included as part of the county's flora until such time.

Passiflora caerulea has not been reported elsewhere in the state of Texas, and Louisiana is the only neighboring state reporting this species (<http://plants.usda.gov>, 18 July 2008). *Orobanche ludoviciana* subsp. *multiflora* appears to be rare in this area most likely because it is under collected. *Cucumis anguria* occurs elsewhere only in Cameron County at the southern tip of Texas bordered by Mexico and the Gulf of Mexico (Turner, et al., 2003). *Equisetum arvense* has been collected in Lubbock County in west Texas and *Sium suave* is known elsewhere only from Gonzales County in south-central Texas (Turner, et al., 2003). *Cuscuta polygonorum* has been collected in Childress County, near in pan-handle of Texas near the Texas/Oklahoma border, and in Brazos County which is approximately 95 miles south-east of McLennan County.

Several specimens occurring in McLennan County represent the outermost limits of the distribution of that species in Texas. *Ammoselinum popei* and *Centaureum beyrichii* are at the eastern edge of their respective distributions. *Dalea obovata*, *Heliotropium procumbens*, *Maurandya antirrhiniflora*, and *Merremia dissecta* are at the

northern edge of their distributions. *Sabal minor* is at the western edge of its distribution, and is an interesting collection in the Brazos River drainage area.

It should also be noted that *Smilax smallii* is listed in Diggs et al. 2003 as occurring in McLennan County naturally, however the collector (W. C. Holmes) of the specimen acknowledged through personal correspondence that the plant is cultivated.

Plant Associations

In addition to physiographic and vegetational areas that are mainly based on soils and their parent materials are ecological systems. These systems are described by the types of plants growing proximal to one another. Those systems are composed of plant associations. Plant associations are a common way of classifying vegetation and are described as communities of plants containing particular plant species, and having a specific habitat and characteristics (Grossman et al. 1998).

Because of the extent of disturbance in McLennan County with agriculture and urbanization, the plant associations occurring at present bear no resemblance to the original (undisturbed) vegetation. Definitive conclusions regarding the plant associations currently represented in McLennan County cannot be made without meticulous documentation of all species growing in the location being examined, which is beyond the scope of this article. This author will follow the listings of Diggs et al. 1999 and Diamond and Smeins 1993, who describe the types of plant communities occurring in each of the vegetational areas represented in McLennan County. These communities (associations) are regarded as historical. Additional information regarding plants characteristic of each vegetational region follows Diggs et al. 1999 and Griffith et al. 2007. As part of the characteristic plant associations for each vegetational area, there are

also characteristic plants species. The species listed follow Correll & Johnston 1970, Collins et al. 1975, Diggs et al. 1999, and Griffith et al. 2007. Those plants are discussed with reference to whether they have or have not been collected in McLennan County.

As listed in Diggs et al. 1999 and Diamond and Smeins 1993 the Blackland Prairie contains five main grassland (herbaceous vegetation) associations: *Schizachyrium-Andropogon-Sorghastrum*; *Schizachyrium-Sorghastrum-Andropogon*; *Schizachyrium-Sorghastrum*; *Tripsacum-Panicum-Sorghastrum*; and *Sporobolus-Carex*. There is no record of *Sorghastrum* species in McLennan County however each of the other species is represented in the county. Other characteristic grassland species include *Aster* species, *Dalea* species, *Rudbeckia* species, *Tridens strictus*, *Hedyotis nigricans*, *Eriochloa sericea*, and *Paspalum floridanum* (Collins et al. 1975; Griffith et al. 2007). Of these only *T. strictus*, *E. sericea*, and *P. floridanum* are not represented in McLennan County. Woodland species of the Blackland Prairie include *Quercus macrocarpa*, *Quercus shumardii*, *Celtis laevigata*, *Ulmus* species, *Fraxinus* species, *Populus deltoides*, *Carya illinoensis*, *Prosopis glandulosa*, *Elymus canadensis*, and *Bouteloua* species, all of which are recorded for the county (Collins et al. 1975; Griffith et al. 2007).

Diggs et al. 1999 does not mention specific plant associations (communities) for either the East Cross Timbers or the Lampasas Cut Plain. Historically dominant species of East Cross Timbers include *Celtis* species, *Carya illinoensis*, *Quercus stellata*, *Quercus marilandica*, *Ulmus crassifolia*, *Juniperus virginiana*, *Bouteloua hirsuta*, *Sporobolous compositus*, *Panicum virgatum*, *Elymus canadensis* (Correll & Johnston 1970; Diggs et al. 1999, NatureServe 2007). All of these species have been recorded for the county. Grassland species occurring historically throughout the East Cross Timbers

include *Schizachyrium scoparium*, *Andropogon gerardii*, and *Sorghastrum nutans*; of these *S. scoparium* and *A. gerardii* presently grow in the county (Diggs et al. 1999). The vegetation of the Lampasas Cut Plain varies according to conditions such as rainfall and elevation and can resemble that of Blackland Prairie, Fort Worth Prairie, Edwards Plateau Woodland, and Balcones Canyonlands (Diggs et al. 1999; Griffith et al. 2007). The eastern edge of the Cut Plain stretches into McLennan County and includes Washita Uplands or Washita Prairie (Diggs et al. 1999). Some characteristic species of the Cut Plain that are reported for McLennan County include *Rhus* species, *Quercus fusiformis*, *Quercus macrocarpa*, *Quercus sinuata* var. *breviloba*, *Quercus stellata*, *Quercus buckleyi*, *Quercus marilandica*, *Ulmus crassifolia*, *Fraxinus texensis*, *Juniperus asheii*, *Prosopis glandulosa*, *Pediomelum cyphocalyx*, *Yucca rupicola*, and *Tradescantia edwardsiana* (Diggs et al. 1999; Griffith et al. 2007). Griffith et al. 2007 also lists species representative of “presettlement grasslands” of the Cut Plain such as *Andropogon gerardii*, *Schizachyrium scoparium*, *Bouteloua curtipendula*, *Sorghastrum nutans*, and *Sporobolus asper* var. *asper*. All of these except *Sorghastrum* and *Sporobolus* are still represented in McLennan County. *Bothriochloa laguroides* subsp. *torreyana*, *Stipa leucotricha* (*Nassella leucotricha*), and *Aristida purpurea* are listed in Griffith et al. 2007 as replacement grassland species resulting from overgrazing. Of these, *Stipa leucotricha* (*Nassella leucotricha*) and *Aristida purpurea* are listed for McLennan County, and *Bothriochloa laguroides* is listed, but not as subspecies *torreyana*.

Other Grand Prairie species not already listed as part of the Lampasas Cut Plain include *Celtis* species, *Carya illinoensis*, and *Buchloe dactyloides*, all of which are found in McLennan County (Griffith et al. 2007).

Griffith et al. 2007 divides the vegetation of the floodplain and alluvial areas of the Brazos and Bosque Rivers into “bottomland forests” and “understory vegetation.” Species characterizing of the bottomland forest include *Ulmus* species, *Quercus nigra*, *Quercus stellata*, *Fraxinus caroliniana*, *Carya illinoensis*, *Quercus phellos*, *Celtis laevigata*, and *Populus deltoides*. All of these are represented in McLennan County except for *F. caroliniana* and *Q. phellos*, which according to Turner et al. 2003 are located only in far east Texas. Understory species include *Rubus* species, *Vitis* species, *Toxicodendron* species, *Cornus florida*, *Elymus virginicus*, and *Panicum virgatum*, of which all but *Cornus florida* are found naturally in McLennan County (Griffith et al. 2007). It appears that *F. caroliniana*, *Q. phellos*, and are included as part of these areas in error, since they have never been recorded for the area (Turner et al. 2003). In addition, though *Cornus florida* has been collected in McLennan County, this author suspects that the collection was from a cultivated plant or mislabeled as a McLennan County specimen.

Discrepancies, Species without voucher specimens

Duplicate specimens present in both BAYLU and TEX with discrepancies in identification were listed by the name given in TEX. Species published as having been found in the county are included in the list though some do not have voucher specimens, such as those listed in Plank 1892 and Pace 1924. It should be noted that some of these species may be misidentified, but without the corresponding specimens, their identity cannot be confirmed. They have been included in this manuscript for thoroughness.

Implications of Research

According to The Nature Conservancy, Texas is one of eight states with greater than 80 "imperiled" vegetational associations, those classified as G1 or G2 on the Global Rank Scale (The Nature Conservancy 1998). G1 is defined as "critically imperiled" with "generally five or fewer occurrences and/or very few remaining acres or very vulnerable to elimination throughout its range due to other factor(s)" and G2 is "imperiled" with "generally 6-20 occurrences and/or few remaining acres or very vulnerable to elimination throughout its range due to other factor(s)" (The Nature Conservancy 1998). Between 20 and 30 percent of vegetational associations in Texas are classified as G1 or G2 (The Nature Conservancy 1998). Thus, the collection and recording of plants in Texas is crucial to the preservation of habitats. As shown in Williams and Lutterschmidt 2006, only 10 of the 254 counties in Texas have published species lists. Without extensive knowledge of the plants that occur in Texas, and other states, social responsibility to preserve them cannot be developed.

APPENDICES

APPENDIX A

Temperature and Precipitation Record

Table A-1 Temperature and precipitation, reproduced from Miller, et al., 2001. Data was recorded between 1951 and 1986 in McGregor, Texas. *A growing degree day is a unit of heat available for plant growth. It can be calculated by adding the maximum and minimum daily temperatures, dividing by the sum of 2, and subtracting the temperature below which growth is minimal for the principal crops in the area (50 °F)" (Miller, et al., 2001).

Month	Temperature						Precipitation				
	Avg daily max	Avg daily min	Avg daily	2 years in 10 will have: Max temp > than:	2 years in 10 will have: Min temp < than:	Avg # growing degree days*	Avg	2 years in 10 will have: Less than:	2 years in 10 will have: More than:	Avg # days with 0.10" or more	Avg snow fall
	°F	°F	°F	°F	°F	Units	Inch	Inch	Inch		Inch
Jan	55.0	32.1	43.6	82	11	58	1.90	0.54	2.99	4	0.6
Feb	60.4	36.3	48.4	84	17	93	2.36	0.98	3.52	4	0.4
Mar	69.0	45.0	57.0	88	24	264	2.32	0.69	3.64	4	0.0
Apr	77.5	54.9	66.2	93	34	486	3.44	1.30	5.21	5	0.0
May	84.0	62.1	73.1	96	44	716	4.60	2.52	6.43	6	0.0
Jun	91.3	69.1	80.2	101	54	906	3.24	0.70	5.21	4	0.0
Jul	96.4	72.5	84.5	105	63	1,070	2.12	0.16	3.51	3	0.0
Aug	96.1	71.8	84.0	106	61	1,054	2.01	0.40	3.27	3	0.0
Sep	88.6	66.1	77.4	101	46	822	3.23	0.95	5.08	4	0.0
Oct	79.4	55.4	67.4	94	37	539	3.57	0.94	5.68	4	0.0
Nov	67.8	44.9	56.4	86	25	224	2.49	0.87	3.82	4	0.0
Dec	58.7	36.6	47.5	80	17	86	2.12	0.77	3.24	4	0.1
Yearly:											
Avg	77.0	53.9	65.5	--	--	--	--	--	--	--	--
Extreme	--	--	--	107	9	--	--	--	--	--	--
Total	--	--	--	--	--	6,318	33.40	25.26	41.02	49	1.1

APPENDIX B

Abbreviations for Collectors

Voucher specimens for plants represented in this checklist were collected by several persons, represented by the following abbreviations:

ABBREVIATION	NAME
AB	A. Browning
AK	A. Kashani
AMG	A. M. Gordon
AP	A. Pitman
B&K	B. Benner & R. Kormanik
B	Booker
BAR	B. A. Rolf
BCT	B. C. Tharp
BEW	B. E. Winn
BG	B. Glass
BGu	B. Guarr
BH	B. Humphrey
BK	B. Kelly
BS	B. Smith
BTW	B.T. Wells
BW	B. Wilson
BWi	B. Williams
C	Cooley
CC	C. Craft
CCA	C. C. Albers
CG	C. Grose
CH	C. Humphreys
CHi	C. Higgins
CLL	C. L. Lundell
CLY	C. L. York
CN	C. Nguyen
CS	C. Stetler
D	Davidson
DEW	D. E. Wivagg
DND	D. N. Denham
DV	D. Vodopich
DW	D. Williamson
EBS	E. B. Steuben

APPENDIX C

Vascular Flora of McLennan County, Texas

The annotated checklist of the vascular flora of McLennan County, Texas primarily follows Diggs, et al. (1999), and when necessary follows Turner, et al. (2003), Correll and Johnston (1970), and The Flora of North America (1993), and United States Department of Agriculture PLANTS Database (2007) for those species not included in the previously listed texts. Species are subdivided into pteridophytes (ferns and fern allies), gymnosperms, and angiosperms which are then divided into dicotyledonous and monocotyledonous plants. Family, genus, and species are alphabetically arranged beneath each category heading. Distinctive designations are given to plants, in the form of symbols, to designate species. Plants that are introduced to the United States, plants that are cultivated, and plants that are escaped are represented by an asterisk (*). Other plant designations include those plants that are endemic to Texas (τ), those that are listed as invasive or noxious (†), and county records (§) which prior to this manuscript have never been reported for McLennan County in a published work.

KL	K. Lloyd
KLY	K. L. Yipp
KM	K. Moore
KMs	K. Morris
KW	K. Weaver
KWi	K. Wilkins
LC	L. Cole
LDS	L. D. Smith
LH	L. Harrel
LHS	L. H. Shinnars
LJ	L. Junek
LP	L. Pace
LPY & MSY	L.P. & M.S. Young
LS	L. Stepp
LT	L. Threadgill
LTs	L. Thomas
LVK	L. V. Kirkendall
MB	M. Bailey
MCJ	M. C. Johnson
MDA	M. D. Adams
MG	M. Gray
MHM	M. H. Mayfield
MJ	M. Jackson
MJM	M. J. McCall
MJR	M. J. Rice
MM	M. Meliza
MMP	M. M. Pursley
MPM	M. P. Mauldin
MW	M. Wheeler
N&N	G. Nesom & J. Nesom
NG	N. Gehlbach
OS & RS	O. & R. Sanders
PB	P. Broome
PDW	P. D. Whitson
PJT	P. J. Talley
PR	P. Riley
PS	P. S. Sarjeant
PSi	P. Siems
R	Robin
RCG	R. C. Gardner
RDG	R. D. Gooch
RDW	R. D. Williamson
RJ	R. Johnston

RJB	R. J. Barnett
RM	R. Murgrave
RMk	R. Murdock
RPA	R. P. Adams
RR	R. Runyon
RSB	R. S. Baldrige
RW	R. Wilson
S	Simmons
St	Stewart
SAC	S. A. Conry
SD	S. Davis
SM	S. Meloche
SP	S. Posey
SS	S. Stanford
ST	S. Tracy
SW	S. Wilbur
SWa	S. Walker
T	Trammell
TC	T. Corley
TLR	T. L. Riley
TS	T. Severa
VAW	V. A. West
VCH	V. C. Hannick
VS	V. Sullivan
W	Wherry
Wi	Williams
WCH	W. C. Holmes
WH	W. Hickman
WHa	W. Hauk
Y	Yarbrough
YG	Y. Ghent
ZEW	Z. E. Walker

APPENDIX C

Vascular Flora of McLennan County, Texas

The annotated checklist of the vascular flora of McLennan County, Texas primarily follows Diggs, et al. (1999), and when necessary follows Turner, et al. (2003), Correll and Johnston (1970), and The Flora of North America (1993), and United States Department of Agriculture PLANTS Database (2007) for those species not included in the previously listed texts. Species are subdivided into pteridophytes (ferns and fern allies), gymnosperms, and angiosperms which are then divided into dicotyledonous and monocotyledonous plants. Family, genus, and species are alphabetically arranged beneath each category heading. Distinctive designations are given to plants, in the form of symbols, to designate species. Plants that are introduced to the United States, plants that are cultivated, and plants that are escaped are represented by an asterisk (*). Other plant designations include those plants that are endemic to Texas (τ), those that are listed as invasive or noxious ($\dagger$), and county records (§) which prior to this manuscript have never been reported for McLennan County in a published work.

Ferns and Allies

AZOLLACEAE

- § *Azolla caroliniana* Willd., SAC 42 [BAYLU]

EQUISETACEAE

- § *Equisetum arvense* L., cited in Pace (1924)
Equisetum hyemale L. subsp. *affine* (Engelm.) Calder & R.L. Taylor, B&K 23
[BAYLU, TEX]
Equisetum laevigatum A. Braun, HS 128 [BAYLU]

MARSILEACEAE

- § *Marsilea macropoda* Engelm. ex A. Braun, ELH s.n. [BAYLU]
Marsilea vestita Hook. & Grev., WCH 5470 [BAYLU]

OPHIOGLOSSACEAE

- § *Ophioglossum crotalophoroides* Walter, WCH 7613 [BAYLU]
Ophioglossum engelmannii Prantl, WCH 7614 [BAYLU]

POLYPODIACEAE

- § *Pleopetis polypodioides* (L.) Andrews & Windham, cited in Pace (1924)

PTERIDACEAE

- Adiantum capillus-veneris* L., LDS 237 [TEX]
§ *Cheilanthes alabamensis* (Buckley) Kuntze, cited in Pace (1924)
Cheilanthes lanosa (Michx.) D.C. Eaton, cited in Diggs, et al. (1999): W s.n.
[BAYLU]
Pellaea atropurpurea (L.) Link, cited in Pace (1924)

THELYPTERIDACEAE

- Thelypteris hispidula* (Dcne.) C.F. Reed var. *versicolor* (R. St. John) Lellinger, KLY
0001 [BAYLU]
§ *Thelypteris kunthii* (Desv.) C.V. Morton, FG s.n. [BAYLU]

Gymnosperms

CUPRESSACEAE

- Juniperus ashei* J. Buchholz, WCH 6231 [BAYLU, TEX]
Juniperus virginiana L., LDS 182 [TEX]
* *Platycladus orientalis* (L.) Franco, RPA 5949 [BAYLU]

PINACEAE

- Pinus taeda* L., WCH s.n. [BAYLU]

Dicotyledonss

ACANTHACEAE

- Dicliptera brachiata* (Pursh) Spreng., WCH 5463 [BAYLU, TEX]
- Dyschoriste linearis* (Torr. & A. Gray) Kuntze var. *linearis*, LDS 1123 [TEX]
- Justicia americana* (L.) Vahl, LDS 293 [BAYLU, TEX]
- § *Ruellia caroliniensis* (J.F. Gmel.) Steud., FAW s.n. [BAYLU]
- τ *Ruellia drummondiana* (Nees) A. Gray, LDS 1116 [TEX]
- Ruellia humilis* Nutt. var. *humilis* LDS 644 [TEX]
- Ruellia nudiflora* (Engelm. & A. Gray) Urb. var. *nudiflora* WCH 5436 [BAYLU, TEX]
- Ruellia strepens* L., WCH 5273 [BAYLU]

ACERACEAE

- Acer negundo* L., WCH 5018 [BAYLU]

AMARANTHACEAE

- Alternanthera caracasana* Kunth, LDS 881 [TEX]
- Amaranthus albus* L., LDS s.n. [BAYLU]
- Amaranthus arenicola* I.M. Johnst., LDS 1045 [TEX]
- * *Amaranthus blitoides* S. Watson, LDS 174 [TEX]
- Amaranthus palmeri* S. Watson, LDS 825 [TEX]
- Amaranthus polygonoides* L., cited in Turner, et al. (2003)
- § *Amaranthus powellii* S. Wats., ELH s.n. [BAYLU]
- Amaranthus retroflexus* L., AMG s.n. [BAYLU]
- Amaranthus rudis* J.D. Sauer, CLY 46252 [TEX]
- Amaranthus scleropoides* Uline & Bray, CLY 46249 [TEX]
- § *Amaranthus spinosus* L., AMG s.n. [BAYLU]
- Froelichia floridana* (Nutt.) Moq., LDS 80 [BAYLU, TEX]
- Froelichia gracilis* (Hooks) Moq., WCH 12031 [BAYLU, TEX]
- § *Iresine diffusa* Humb. & Bonpl. ex Willd., WCH 5460 [BAYLU, TEX]
- Iresine rhizomatosa* Standl., cited in Turner, et al. (2003)

ANACARDIACEAE

- Rhus aromatica* Aiton. var. *serotina* (Greene) Rehder, WCH 8247 [BAYLU]
- § *Rhus copollinum* L. var. *latifolia* Engl., FAW s.n. [BAYLU]
- § *Rhus glabra* L., WCH 6661 [BAYLU, TEX]
- Rhus lanceolata* (A. Gray) Britton, WCH 5177 [BAYLU]
- Rhus trilobata* Nutt., VCH 217 [BAYLU]
- § *Rhus virens* Lindh. ex. A. Gray, WCH 4941 [BAYLU]
- Toxicodendron pubescens* Mill., TS s.n. [BAYLU]
- Toxicodendron radicans* L., LDS 246 [TEX]

APIACEAE

- *§ *Ammi majus* L., JM s.n. [BAYLU]
- § *Ammoselinum popei* Torr. & A. Gray, ELH s.n. [BAYLU]

- *§ *Anethum graveolens* L., WCH 13466 [BAYLU]
- Bifora americana* Benth. & Hook. f. ex. S. Watson, WCH 6457 [BAYLU, TEX]
- § *Bowlesia incana* Ruiz & Pav., ELH s.n. [BAYLU]
- * *Bupleurum rotundifolium* L., WCH 8249 [BAYLU]
- Chaerophyllum tainturieri* Hook., LDS 1134 [TEX]
- * *Coriandrum sativum* L., WCH 7022 [BAYLU]
- * *Cyclospermum leptophyllum* (Pers.) Sprague ex Britton & P. Wilson, LDS 487 [BAYLU, TEX]
- § *Cymopterus macrorhizus* Buckley, RCG 555 [BAYLU]
- *§ *Daucus carota* L., WCH 13118 [BAYLU]
- Daucus pusillus* Michx., LDS 628 [BAYLU, TEX]
- Eryngium hookeri* Walp., WCH 12389 [BAYLU]
- Eryngium leavenworthii* Torr. & A. Gray, WCH 6224 [BAYLU]
- § *Eurytaenia texana* Torr. & A. Gray, SW s.n. [BAYLU]
- Hydrocotyle umbellata* L., LDS 99 [TEX]
- Hydrocotyle verticillata* Thunb., LDS 1000 [BAYLU, TEX]
- Hydrocotyle verticillata* Thunb. var. *triradiata* (A. Rich.) Fernald, MJM 137 [BAYLU]
- Limnoscium pinnatum* (DC.) Mathias & Constance, LDS 633 [BAYLU, TEX]
- Limnoscium pumilum* (DC.) Mathias & Constance, WCH 5657 [BAYLU, TEX]
- § *Polytaenia nuttallii* DC., WCH 6456 [BAYLU]
- Ptilimnium capillaceum* (Michx.) Raf., LDS 1142 [TEX]
- Sanicula canadensis* L., LDS 659 [BAYLU, TEX]
- Sium suave* Walter, cited in Pace (1924)
- § *Spermolepis inermis* (Nutt. ex DC.) Mathias & Constance, CH s.n. [BAYLU]
- * *Torilis arvensis* (Huds.) Link, CLY 46101 [TEX]
- *§ *Torilis nodosa* (L.) Gaertn., SWa 96 [BAYLU]

APOCYNACEAE

- Amsonia ciliata* Walter var. *texana* (A. Gray) J.M. Coult., LDS 1072 [LL]
- *§ *Catharanthus roseus* (L.) G. Don, FAW s.n. [BAYLU]
- *§ *Trachelospermum jasminoides* (Lindl.) Lem., WCH 12157 [BAYLU]
- *§ *Vinca major* L., BEW 22 [BAYLU]
- *§ *Vinca minor* L., MW s.n. [BAYLU]

AQUIFOLIACEAE

- Ilex decidua* Walter, LDS 471 [BAYLU, TEX]
- Ilex vomitoria* Sol. in Aiton, VCH 201 [BAYLU]

ARALIACEAE

- *§ *Hedera helix* L., cited in Pace (1924)

ARISTOLOCHIACEAE

- Aristolochia tomentosa* Sims., cited in Turner, et al. (2003)

ASCLEPIADACEAE

- Asclepias asperula* (Decne.) Woodson, MHM 1242 [TEX]
- Asclepias oenotheroides* Cham. & Schltdl., WCH 6798 [BAYLU]
- Asclepias tuberosa* L., LDS 609 [TEX]
- Asclepias verticillata* L., LDS 603 [TEX]
- Asclepias viridiflora* Raf., LDS 671 [TEX]
- Asclepias viridis* Walter, WCH 5439 [BAYLU]
- § *Cynanchum laeve* (Michx.) Pers., cited in Pace (1924)
- § *Funastrum cynanchoides* (Decne.) Schltr., WCH 13477 [BAYLU]
- Matelea biflora* (Raf.) Woodson, MHM 1237 [TEX]
- § *Matelea cynanchoides* (Engelm.) Woodson, WCH 5253 [BAYLU]
- § *Matelea gonocarpos* (Walters) Shinnars, AMG s.n. [BAYLU]
- Matelea reticulata* (Engelm. ex. A. Gray) Woodson, RDW s.n. [BAYLU]

ASTERACEAE

- Achillea millefolium* L., WCH 6460 [BAYLU, TEX]
- Ambrosia artemisiifolia* L., KC s.n. [BAYLU]
- Ambrosia psilostachya* DC., LDS 308 [BAYLU, TEX]
- Ambrosia trifida* L. var. *texana* Scheele, WCH 6223 [BAYLU, TEX]
- * *Anthemis cotula* L., LDS 1156 [TEX]
- Aphanostephus skirrhobasis* (DC.) Trel., LDS 590 [TEX]
- Arnoglossum plantagineum* Raf., WCH 7112 [BAYLU, TEX]
- Artemisia ludoviciana* Nutt. subsp. *ludoviciana* LDS 276 [TEX]
- Artemisia ludoviciana* Nutt. subsp. *mexicana* (Willd. Ex Spreng.) D.D. Keck, WCH 13508 [BAYLU]
- § *Baccharis neglecta* Britton, LDS 1023 [TEX]
- Baccharis texana* (Torr. & A. Gray) A. Gray, LDS s.n. [BAYLU]
- § *Boltonia diffusa* Elliot, LDS s.n. [BAYLU]
- § *Brickellia cylindracea* A. Gray & Engelm., WCH 7896 [BAYLU]
- § *Brickellia eupatorioides* L. var. *texana* (Shinnars) Shinnars, WCH 8720 [BAYLU]
- *§ *Calypocarpus vialis* Less., RM s.n. [BAYLU]
- *§ *Carthamus tinctorius* L., WCH 13530 [BAYLU]
- Centaurea americana* Nutt., VCH 228 [BAYLU]
- *§ *Centaurea cyanus* L., PR s.n. [BAYLU]
- *§ *Centaurea melitensis* L., VCH 209 [BAYLU]
- Chaetopappa asteroides* Nutt. ex DC., LDS 1058 [TEX]
- τ *Chaetopappa bellidifolia* (Gray & Engelm.) Shinnars, LDS 503 [TEX]
- Chloracantha spinosa* (Benth.) G.L. Nesom, LDS 303 [BAYLU, TEX]
- § *Chrysopsis pilosa* Nutt., EH s.n. [BAYLU]
- *§ *Cichorium intybus* L., WCH 13803 [BAYLU]
- Cirsium discolor* (Muhl. ex Willd.) Spreng., LDS 675 [TEX]
- Cirsium horridulum* Michx., LS 148 [BAYLU]
- Cirsium texanum* Buckley, N&N 7027 [TEX]
- § *Cirsium undulatum* (Nutt.) Spreng., AB s.n. [BAYLU]
- Cirsium virginianum* (L.) Michx., LH s.n. [BAYLU]
- Conoclinium coelestinum* (L.) DC., LDS 64 [BAYLU]

- Conyza canadensis* (L.) Cronquist, LDS 274 [TEX]
Conyza ramosissima Cronquist, LDS 829 [TEX]
Coreopsis tinctoria Nutt., LDS 706 [TEX]
Coreopsis wrightii (A. Gray) H.M. Parker, cited in Turner, et al. (2003)
Croptilon hookerianum (Torr. & A. Gray) House var. *validum* (Rydb.) E.B. Sm., LDS 1015 [TEX]
Diaperia verna (Raf.) Morefield var. *verna* LDS 438 [TEX]
Dracopis amplexicaulis (Vahl.) Cass., LS 130 [BAYLU]
§ *Echinacea angustifolia* DC., BW s.n. [BAYLU]
Eclipta prostrata (L.) L., WCH 5170 [BAYLU]
Engelmannia peristenia (Raf.) Goodman & C.A. Lawson, WCH 6446 [BAYLU]
§ *Erigeron annuus* (L.) Pers., SD s.n. [BAYLU]
Erigeron geiseri Shinnery, LDS 514 [TEX]
§ *Erigeron modestus* A. Gray, WCH 5047 [BAYLU]
Erigeron philadelphicus L., LDS 458 [BAYLU, TEX]
Erigeron strigosus Muhl. ex Willd., LDS 1140 [TEX]
Erigeron tenuis Torr. & A. Gray, LDS 411 [BAYLU, TEX]
Eupatorium serotinum Michx., WCH 5167 [BAYLU]
§ *Evax candida* (Torr. & A. Gray) A. Gray, WCH 12568 [BAYLU]
Evax prolifera Nutt. ex DC., WCH 5251 [BAYLU]
§ *Gaillardia aestivalis* (Walter) H. Rock, WCH 12024 [BAYLU]
Gaillardia pulchella Foug., CLY 46081 [TEX]
Gaillardia suavis (A. Gray & Engelm.) Britt. & Rusby, WCH 7661 [BAYLU]
§ *Gamochaeta pensylvanica* (Willd.) Cabrera, LC s.n. [BAYLU]
Grindelia adenodonta (Steyerm.) G.L. Nesom, LDS 62 [TEX]
Grindelia ciliata Spreng., LDS 77 [TEX]
Grindelia lanceolata Nutt. var. *texana* EW 6645 [LL]
§ *Grindelia papposa* G.L. Nesom & Y.B. Suh, WCH 4938 [BAYLU]
§ *Gutierrezia dracunculoides* (DC.) S.F. Blake, LDS 12 [TEX]
Gutierrezia microcephala (DC.) A. Gray, WCH 6264 [BAYLU]
§ *Gutierrezia texana* (DC.) Torr. & A. Gray, AMG s.n. [BAYLU]
*§ *Hedypnois cretica* (L.) Dum. Cours., WCH 12831 [BAYLU, TEX]
Helenium amarum (Raf.) H. Rock var. *amarum*, CLY & LDS 128 [BAYLU, TEX]
Helenium elegans DC., CLY 46071 [TEX]
Helenium microcephalum DC., LDS 45 [TEX]
Helianthus annuus L., WCH 5090 [BAYLU]
§ *Helianthus debilis* Nutt. subsp. *cumcumerifolius* (Torr. & A. Gray) Heiser, LDS 280 [BAYLU]
Helianthus hirsutus Raf., FG s.n. [BAYLU, TEX]
Helianthus maximiliani Schrad., WCH 5461 [BAYLU, TEX]
Helianthus petiolaris Nutt., cited in Turner, et al. (2003)
Heterotheca subaxillaris (Lam.) Britton & Rusby, LDS 76 [TEX]
Hymenopappus scabiosaeus L'Her. var. *corymbosus* (Torr. & A. Gray) B.L. Turner, WCH 5046 [BAYLU, TEX]
*§ *Hypochoeris brasiliensis* (Less.) Griseb., WCH 13268 [BAYLU]
Iva annua L., WCH 5440 [BAYLU, TEX]

- Iva xanthifolia* (Fresen.) Nutt., cited in Pace (1924)
- τ *Krigia caespitosa* (Raf.) K.L. Chambers, LDS 552 [TEX]
Krigia caespitosa (Raf.) K.L. Chambers f. *gracilis* (DC.) K.J. Kim, WCH 11281 [BAYLU]
- § *Krigia occidentalis* Nutt., ELH s.n. [BAYLU]
Krigia wrightii (A. Gray) K.L. Chambers, LDS 400 [TEX]
- § *Lactuca canadensis* L., LDS 173 [BAYLU]
Lactuca ludoviciana (Nutt.) Riddell, LDS 696 [TEX]
- * *Lactuca serriola* L., LDS 1004 [TEX]
Liatris glandulosa Nesom & R. O'Kennon, LDS 1007 [TEX]
- § *Liatris mucronata* DC., WCH 5173 [BAYLU]
Lindheimera texana Engelm. & A. Gray, WCH 5269 [BAYLU]
Lygodesmia texana (Torr. & A. Gray) Greene, WCH 5084 [BAYLU]
Marshallia caespitosa Nutt. ex DC. var. *caespitosa*, WCH 8250 [BAYLU]
Marshallia caespitosa Nutt. ex DC. var. *signata* LDS 546 [TEX]
Melampodium leucanthum Torr. & A. Gray, VCH 208 [BAYLU]
Mikania scandens (L.) Willd., WCH 12027 [BAYLU]
- § *Packera glabella* (Poir.) C. Jeffrey, cited in Pace (1924)
§ *Packera plattensis* (Nutt.) Á. Löve & D. Löve, AMG s.n. [BAYLU]
Packera tampicana (DC.) C. Jeffrey, LDS 427 [TEX]
Palafoxia callosa (Nutt.) Torr. & A. Gray, LDS 252 [TEX]
- τ§ *Palafoxia rosea* (Bush) Cory, GH s.n. [BAYLU]
- *§ *Parthenium hysterophorus* L., AK 238 [BAYLU]
- § *Pinaropappus roseus* (Less.) Less., EBS s.n. [BAYLU]
Pluchea camphorata (L.) DC., SAC 27 [BAYLU]
Pluchea odorata (L.) Cass., LDS 114 [TEX]
- § *Pyrrhopappus carolinianus* (Walter) DC., PDW s.n. [BAYLU]
- § *Pyrrhopappus grandiflorus* (Nutt.) Nutt., LDS 1182 [BAYLU]
Pyrrhopappus pauciflorus (D. Don) DC., WCH 5048 [BAYLU]
Ratibida columnifera (Nutt.) Wooton & Standley, WCH 5178 [BAYLU]
Rudbeckia hirta L. var. *pulcherrima* Farw., LDS 868 [TEX]
- τ *Senecio ampullaceus* Hook., VCH 203 [BAYLU]
- * *Senecio vulgaris* L., WCH 11198 [BAYLU, TEX]
- τ *Silphium albiflorum* A. Gray, WCH 6559 [BAYLU]
Silphium radula Nutt., LDS 225 [BAYLU]
- * *Silybum marianum* WCH 7659 [BAYLU]
Smallanthus uvedalius (L.) Mack. ex Small, WCH 5071 [BAYLU]
- § *Solidago canadensis* L., WCH 5438 [BAYLU]
Solidago canadensis L. var. *scabra* Torr. & A. Gray, LDS 52-621 [TEX]
- § *Solidago nemoralis* Aiton, WCH 7528 [BAYLU]
- § *Solidago odora* Aiton, LP s.n. [BAYLU]
Solidago radula Nutt., LDS 1031 [TEX]
- § *Solidago rigida* L., WCH 6215 [BAYLU]
- § *Solidago rugosa* Mill., EH s.n. [BAYLU]
- * *Sonchus asper* (L.) Hill, LDS 409 [BAYLU, TEX]
- *§ *Sonchus oleraceus* L., SW s.n. [BAYLU]

- Symphyotrichum divaricatum* (Nutt.) G.L. Nesom, CLY & LDS 108 [TEX]
Symphyotrichum drummondii (Lindl.) G.L. Nesom var. *texanum* (Burgess) G.L. Nesom, LDS 52-622 [TEX]
Symphyotrichum ericoides (L.) G.L. Nesom var. *ericoides* LDS 52-624 [TEX]
τ *Symphyotrichum eulae* (Shinners) G.L. Nesom, ELH s.n. [BAYLU]
Symphyotrichum lanceolatum (Willd.) G.L. Nesom subsp. *lanceolatus* LDS 1014 [TEX]
§ *Symphyotrichum praealtum* (Poir.) G.L. Nesom var. *praealtum* WCH 12029 [BAYLU, TEX]
* *Taraxacum laevigatum* (Willd.) DC., LP s.n. [TEX]
* *Taraxacum officinale* F.H. Wigg., DEW 101 [BAYLU]
Tetranneuris linearifolia (Hook.) Greene, LDS 1157 [TEX]
Tetranneuris scaposa (DC.) Greene, LDS 543 [TEX]
Thelesperma filifolium (Hook.) A. Gray var. *filifolium* LDS 565 [TEX]
Thelesperma simplicifolium A. Gray, LDS 1133 [TEX]
*§ *Tragopogon dubius* Scop., VCH 274 [BAYLU]
Verbesina encelioides (Cav.) Benth. & Hook.f. ex A. Gray subsp. *exauriculata* (Robins. & Greenm.) J.R. Coleman, LDS 270 [TEX]
Verbesina virginica L., WCH 5465 [BAYLU, TEX]
Vernonia baldwinii Torr., CLY 46144 [TEX]
Vernonia baldwinii Torr. subsp. *interior* (Small) Faust, LDS 255 [BAYLU]
τ§ *Vernonia lindheimeri* A. Gray & Englem., VCH 220 [BAYLU]
§ *Vernonia missurica* Raf., WCH 5089 [BAYLU]
Vernonia texana (A. Gray) Small, LDS 871 [TEX]
Viguiera dentata (Cav.) Spreng., WCH 5458 [BAYLU, TEX]
Xanthisma texanum DC. subsp. *drummondii* (Torr. & A. Gray) Semple, LDS 55 [TEX]
Xanthium strumarium L. var. *canadense* (Mill.) Torr. & A. Gray, LDS 1039 [TEX]

BERBERIDACEAE

- Berberis trifoliata* Moric., ELH s.n. [BAYLU]
*§ *Nandina domestica* Thunb., CN 146 [BAYLU]

BIGNONIACEAE

- Campsis radicans* (L.) Seem. ex Bureau, WCH 6209 [BAYLU]
§ *Catalpa bignonioides* BK s.n. [BAYLU]
§ *Catalpa speciosa* (Warder) Warder ex Engelm., BK s.n. [BAYLU]
Chilopsis linearis (Cav.) Sweet, LDS 715 [TEX]

BORAGINACEAE

- *§ *Buglossoides arvensis* (L.) I.M. Johnst., WCH 5031 [BAYLU]
τ§ *Cryptantha texana* (A. DC.) Greene, AMG s.n. [BAYLU]
*§ *Heliotropium amplexicaule* Vahl., LVK s.n. [BAYLU]
Heliotropium convolvulaceum (Nutt.) A. Gray, LDS 168 [TEX]
* *Heliotropium indicum* L., WCH 4936 [BAYLU]
§ *Heliotropium procumbens* Mill., EH s.n. [BAYLU]

- Heliotropium tenellum* (Nutt.) Torr., WCH 5306 [BAYLU]
Lithospermum incisum Lehm., LDS 1136 [TEX]
Myosotis macrosperma Engelm., LDS 1064 [TEX]
§ *Myosotis verna* Nutt., LDS s.n. [BAYLU]
τ *Onosmodium bejariense* DC. ex A. DC. var. *bejariense* LDS 1159 [TEX]

BRASSICACEAE

- * *Brassica kaber* (DC.) Wheeler, ELH s.n. [BAYLU]
*§ *Brassica nigra* (L.) Koch., LDS s.n. [BAYLU]
*§ *Brassica rapa* L. var. *campestris* (L.) Koch., BS s.n. [BAYLU]
*§ *Camelina microcarpa* Andr. ex DC., GS s.n. [BAYLU]
* *Capsella bursa-pastoris* (L.) Medik., LDS 358 [BAYLU, TEX]
* *Cardamine hirsuta* L., RJ s.n. [BAYLU]
* *Chorispora tenella* (Pall.) DC., DND 64 [BAYLU]
Descurainia pinnata (Walter) Britton, BG s.n. [BAYLU]
* *Descurainia sophia* (L.) Webb ex Prantl., cited in Pace (1924)
Draba brachycarpa Nutt. ex Torr. & A. Gray, LDS 343 [BAYLU, TEX]
Draba cuneifolia Nutt. ex Torr. & A. Gray, LDS 375a [TEX]
Draba platycarpa Torr. & A. Gray, WCH 5246 [BAYLU, TEX]
Draba reptans (Lam.) Fernald, LDS 362 [BAYLU, TEX]
* *Draba verna* L., cited in Pace (1924)
* *Erysimum repandum* L., LDS 367 [BAYLU, TEX]
§ *Lepidium austrinum* Small, LT s.n. [BAYLU]
Lepidium densiflorum Schrad., LDS 1085 [TEX]
§ *Lepidium oblongum* Small, WCH 12112 [BAYLU]
Lepidium virginicum L., LDS 446 [TEX]
Lesquerella argyrea (A. Gray) S. Watson, RMk s.n. [BAYLU]
§ *Lesquerella auriculata* (Engelm. & A. Gray) S. Watson, LDS 1186 [BAYLU]
τ *Lesquerella densiflora* (A. Gray) S. Watson, LDS 375 [TEX]
τ§ *Lesquerella engelmannii* (A. Gray) S. Watson, JG 51 [BAYLU]
Lesquerella gracilis (Hook.) S. Watson, LDS 372 [BAYLU, TEX]
τ *Lesquerella recurvata* (Engelm. ex A. Gray) LDS 349 [BAYLU, TEX]
* *Rapistrum rugosum* (L.) All., LDS 1070 [TEX]
* *Rorippa nasturtium-aquaticum* (L.) Hayek, WCH 5260 [BAYLU]
Rorippa palustris (L.) Besser LDS 1028 [TEX]
Sibara virginica (L.) Rollins, WCH 6332 [BAYLU]
*§ *Sisymbrium altissimum* L., GBY s.n. [BAYLU]
*§ *Sisymbrium irio* L., WCH 6333 [BAYLU]
* *Sisymbrium officinale* (L.) Scop., LDS 1119 [TEX]

BUDDLEJACEAE

- *§ *Buddleja lindleyana* Fortune, WCH 12599 [BAYLU]
§ *Polypremum procumbens* L., LDS 327 [BAYLU, TEX]

CACTACEAE

- Coryphantha echinus* (Engelm.) Britton & Rose, WCH 5261 [BAYLU]

- *§ *Cylindropuntia imbricata* (Haw.) F.M. Kunth, VCH s.n. [BAYLU]
- § *Mammillaria heyderi* Muehlenpf, WCH 13805 [BAYLU]
- § *Opuntia engelmannii* Salm-Dyck var. *lindheimeri* (Engelm.) B.D. Parfitt & Pinkaba, KM s.n. [BAYLU]
- Opuntia grandiflora* LDS s.n. [BAYLU]
- § *Opuntia humifusa* (Raf.) Raf., KW 71 [BAYLU]
- Opuntia leptocaulis* DC., LDS 873 [TEX]
- Opuntia macrorhiza* Engelm., LDS 1128 [TEX]

CALLITRICHACEAE

- § *Callitriche heterophylla* Pursh., WCH 6425 [BAYLU]
- § *Callitriche terrestris* Raf., WCH 1311 [BAYLU]

CAMPANULACEAE

- Triodanis leptocarpa* (Nutt.) Nieuwl., LDS 505 [TEX]
- Triodanis perfoliata* (L.) Nieuwl. var. *biflora* (Ruiz & Pav.) T.R. Bradley, LDS s.n. [BAYLU]
- Triodanis perfoliata* (L.) Nieuwl. var. *perfoliata* LDS 521 [BAYLU, TEX]

CAPPARACEAE

- Polanisia dodecandra* (L.) DC. subsp. *trachyspermum* (T. & G.) Itlis, WCH 6214 [BAYLU]

CAPRIFOLIACEAE

- *§ *Abelia* × *grandiflora* (Rovelli ex André) Rehd. *chinensis* × *uniflora*], BK s.n. [BAYLU]
- § *Lonicera albiflora* Torr. & A. Gray, VCH 280 [BAYLU]
- *§ *Lonicera fragrantissima* Lindl. & Paxton, KAC 66 [BAYLU]
- *§ *Lonicera japonica* Thunb., JB 12 [BAYLU]
- *§ *Lonicera maackii* (Rupr.) Herder, BS s.n. [BAYLU]
- *§ *Lonicera tatarica* L., LDS s.n. [BAYLU]
- § *Lonicera sempervirens* L., WCH 7628 [BAYLU]
- Sambucus nigra* L. var. *canadensis* (L.) Bolli, LDS 595 [TEX]
- Symphoricarpos orbiculatus* Moench, LDS 900 [TEX]
- Viburnum rufidulum* Raf., LDS 1049 [TEX]

CARYOPHYLLACEAE

- Arenaria benthamii* Fenzl ex Torr. & A. Gray, LDS 361 [TEX]
- *§ *Arenaria serpyllifolia* L., WCH 5248 [BAYLU]
- Cerastium brachypodum* (Engelm. ex A. Gray) B.L. Rob., WCH 5244 [BAYLU, TEX]
- *§ *Cerastium glomeratum* Thuill., VS s.n. [BAYLU]
- § *Loeflingia squarrosa* Nutt., WCH 12565 [BAYLU]
- § *Paronychia virginica* Spreng., LP s.n. [BAYLU]
- * *Polycarpon tetraphyllum* (L.) L., VCH 210 [BAYLU]
- Sagina decumbens* (Elliot) Torr. & A. Gray, LC s.n. [BAYLU]

- Silene antirrhina* L., WCH 5579 [BAYLU, TEX]
- *§ *Silene gallica* L., WCH 13769 [BAYLU]
- *§ *Stellaria media* (L.) Vill., PS s.n. [BAYLU]
- § *Stellaria prostrata* Baldw., cited in Pace (1924)
- *§ *Vaccaria hispanica* (Mill.) Rauschert, WCH 5265 [BAYLU]

CELASTRACEAE

- § *Euonymus americana* L., SS s.n. [BAYLU]
- § *Euonymus atropurpurea* Jacq., BA s.n. [BAYLU]
- *§ *Euonymus japonicus* Thunb., cited in Pace (1924)

CERATOPHYLLACEAE

- Ceratophyllum demersum* L., DV s.n. [BAYLU]

CHENOPODIACEAE

- *† *Chenopodium album* L., LDS 309 [TEX]
- * *Chenopodium ambrosioides* L., LDS 961 [TEX]
- § *Chenopodium berlandieri* Moq. var. *boscianum* (Moq.) Wahl, WCH 566 [BAYLU]
- *§ *Chenopodium botrys* L., ELH s.n. [BAYLU]
- Chenopodium standleyanum* Aellen, LDS 993 [TEX]
- § *Cycloloma atriplicifolium* (Spreng.) J.M. Coult., ELH s.n. [BAYLU]
- Monolepis nuttalliana* (Schult.) Greene, LDS 1167 [TEX]

CISTACEAE

- Helianthemum georgianum* Chapm., WCH 13260 [BAYLU]
- Helianthemum rosmarinifolium* Pursh, LDS 735 [TEX]
- Lechea mucronata* Raf., LDS 859 [TEX]
- τ *Lechea san-sabeana* (Buckley) Hodgdon, WCH 12026 [BAYLU]
- Lechea tenuifolia* Michx., WCH 13261 [BAYLU]

CLUSIACEAE

- Hypericum drummondii* (Grev. & Hook.) Torr. & A. Gray, WCH & FG & NG 9831 [TEX]
- Hypericum hypericoides* (L.) Crantz, LDS 943 [TEX]

CONVOLVULACEAE

- *†§ *Convolvulus arvensis* L., cited in Pace (1924)
- Convolvulus equitans* Benth., LDS 774 [TEX]
- § *Dichondra carolinensis* Michx., RJB s.n. [BAYLU]
- Evolvulus nuttallianus* Schult., WCH 8262 [BAYLU]
- Evolvulus sericeus* Sw., WCH 13264 [BAYLU]
- *§ *Ipomoea batatas* (L.) Lam., JB 74 [BAYLU]
- Ipomoea cordatotriloba* Dennst., var. *cordatotriloba* LDS 305 [TEX]
- Ipomoea lacunosa* L., CLY & LDS 151 [TEX]
- *§ *Ipomoea quamoclit* L., WCH 5179 [BAYLU]
- *§ *Ipomoea wrightii* A. Gray, LDS 159 [TEX]

§ *Merremia dissecta* (Jacq.) Hallier f., JMc s.n. [BAYLU]

CORNACEAE

Cornus drummondii C.A. Mey., LDS 442 [BAYLU, TEX]

*§ *Cornus florida* L., CS 71 [BAYLU]

CRASSULACEAE

§ *Crassula longipes* (Rose) Bywater & Wickens, WCH 13115 [BAYLU]

Sedum nuttallianum Raf., WCH 8241 [BAYLU]

CUCURBITACEAE

* *Citrullus lanatus* (Thunb.) Matsum. & Nakai var. *lanatus* LDS 294 [BAYLU, TEX]

§ *Cucumis anguria* L., LDS 68 [BAYLU, TEX]

Cucurbita foetidissima Kunth, LDS 219 [BAYLU, TEX]

Cyclanthera dissecta (Torr. & A. Gray) Arn., WCH 5043 [BAYLU]

τ *Ibervillea lindheimeri* (A. Gray) Greene, LDS 538 [TEX]

Melothria pendula L., BCT s.n. [TEX]

Sicyos angulatus L., CLY 46069 [TEX]

CUSCUTACEAE

Cuscuta cuspidata Engelm., LDS 147 [BAYLU, TEX]

Cuscuta exaltata Engelm., LDS 1034 [BAYLU, TEX]

§ *Cuscuta gronovii* Willd. ex Schult., WCH 5271 [BAYLU]

Cuscuta indecora Choisy var. *longisepala* Yunck., LDS 164 [TEX]

§ *Cuscuta obtusiflora* Kunth, WCH 10108 [BAYLU]

Cuscuta pentagona Engelm., LDS 1001 [TEX]

Cuscuta pentagona Engelm. var. *pubescens* (Engelm.) Yunck., LDS 694 [TEX]

§ *Cuscuta polygonorum* Engelm., LDS s.n. [BAYLU]

EBENACEAE

Diospyros texana Scheele, WCH 5032 [BAYLU]

Diospyros virginiana L., LDS 824 [TEX]

EUPHORBIACEAE

§ *Acalypha gracilens* A. Gray, LDS 254 [BAYLU]

Acalypha ostryifolia Riddell, LDS 71 [TEX]

Acalypha phleoides Cav., WCH 8243 [BAYLU]

§ *Chamaesyce cordifolia* (Elliot) Small, WCH 5442 [BAYLU]

Chamaesyce maculata (L.) Small, LDS 170 [TEX]

Chamaesyce missurica (Raf.) Shinnars, CLY 46157 [BAYLU]

Chamaesyce nutans (Lag.) Small, WCH 8721 [BAYLU]

§ *Chamaesyce prostrata* (Aiton) Small, CLY 46253 [TEX]

Chamaesyce serpens (Kunth) Small, LDS 892 [TEX]

§ *Chamaesyce stictospora* (Engelm.) Small, J&J&B s.n. [BAYLU]

Chamaesyce villifera (Scheele) Small, cited in Turner, et al. (2003)

Cnidoscolus texanus (Mül.Arg.) Small, LDS 583 [TEX]

- Croton capitatus* Michx. var. *lindheimeri* (Engelm. & A. Gray) Müll.Arg., LDS 40 [TEX]
Croton glandulosus L. var. *glandulosus* LDS 7 [BAYLU, TEX]
Croton monanthogynus Michx., LDS 283 [BAYLU, TEX]
Croton punctatus Jacq., cited in Pace (1924)
Croton texensis (Klotzsch) Müll.Arg., LDS 214 [TEX]
Ditaxis humilis (Engelm. & A. Gray) Pax, LDS 1101 [TEX]
Ditaxis mercurialina (Nutt.) J.M. Coult., LDS 1152 [TEX]
Euphorbia bicolor Engelm. & A. Gray, CLY & LDS 105 [BAYLU, TEX]
§ *Euphorbia cyathophora* Murray, LDS 979 [TEX]
§ *Euphorbia dentata* Michx., LDS 81 [TEX]
Euphorbia longicruris Scheele, MHM 1253 [TEX]
Euphorbia marginata Pursh, LDS 70 [TEX]
Euphorbia spathulata Lam., LDS 689 [TEX]
§ *Euphorbia tetrapora* Engelm., LP s.n. [BAYLU]
Leptopus phyllanthoides (Nutt.) G.L. Webster, WCH 5155 [BAYLU, TEX]
Phyllanthus polygonoides Nutt. ex Spreng., WCH 5174 [BAYLU]
* *Phyllanthus urinaria* L., HB s.n. [LL]
*§ *Ricinus communis* L., cited in Pace (1924)
*†§ *Sapium sebiferum* (L.) Roxb., BH 76 [BAYLU]
Stillingia sylvatica L., LDS 841 [TEX]
Stillingia texana I.M. Johnst., MHM 1236 [TEX]
Tragia betonicifolia Nutt., LDS 1110 [TEX]
Tragia brevispica Engelm. & A. Gray, WCH 5167 [BAYLU]
Tragia nepetifolia Cav., cited in Pace (1924)
Tragia ramosa Torr., LDS 889 [TEX]
§ *Tragia urticifolia* Michx., LDS s.n. [BAYLU]

FABACEAE

- § *Acacia angustissima* (Mill.) Kuntze var. *hirta* (Nutt.) B.L. Rob., AMG s.n. [BAYLU]
Acacia farnesiana (L.) Willd., WCH 7615 [BAYLU, TEX]
* *Albizia julibrissin* Durazzo, LDS 300 [BAYLU, TEX]
Amorpha fruticosa L., WCH 5158 [TEX]
Astragalus nuttallianus DC. var. *nuttallianus* LDS 1061 [TEX]
τ *Astragalus nuttallianus* DC. var. *pleianthus* (Shinners) Barneby, LDS 401 [TEX]
τ *Astragalus reflexus* Torr. & A. Gray, LDS 1087 [TEX]
Baptisia nuttalliana Small, LDS 844 [TEX]
* *Caesalpinia gilliesii* (Hook.) Wall. ex D. Dietr., WCH 6455 [BAYLU, TEX]
Centrosema virginianum (L.) Benth., LDS 838 [TEX]
Cercis canadensis L. var. *texensis* (S. Watson) M. Hopkins, LDS 949 [TEX]
§ *Chamaecrista fasciculata* (Michx.) Greene, LDS 32 [BAYLU]
Clitoria mariana L., LDS 606 [TEX]
Dalea aurea Nutt. ex Pursh, CLY 46141 [TEX]
Dalea compacta Spreng. var. *compacta* CLY 46154 [TEX]
Dalea enneandra Nutt., LDS 946 [TEX]
Dalea multiflora (Nutt.) Shinners, LDS 930 [TEX]

- τ§ *Dalea obovata* (Torr. & A. Gray) Shinnars, WCH 13267 [BAYLU]
- § *Dalea purpurea* Vent. var. *purpurea*, cited in Pace (1924)
- τ *Dalea tenuis* (J.M. Coult.) Shinnars, cited in Turner, et al. (2003)
- Desmanthus acuminatus* Benth., WCH 13266 [BAYLU]
- Desmanthus illinoensis* (Michx.) MacMill. ex B.L. Rob. & Fernald, LDS 828 [TEX]
- Desmanthus leptolobus* Torr. & A. Gray, LDS 588 [BAYLU, TEX]
- Desmanthus velutinus* Scheele, LDS 1124 [TEX]
- § *Desmodium obtusum* (Muhl. ex Willd.) DC., H s.n. [BAYLU]
- Desmodium paniculatum* (L.) DC., LDS 1029 [TEX]
- § *Desmodium psilophyllum* Schltdl., LDS 297 [TEX]
- Desmodium sessilifolium* (Torr.) Torr. & A. Gray, LDS 861 [TEX]
- Eysenhardtia texana* Scheele, cited in Turner, et al. (2003)
- Galactia striata* (Jacq.) Urban, LDS 876 [TEX]
- τ *Galactia texana* (Scheele) A. Gray, LDS 837 [TEX]
- Galactia volubilis* (L.) Britton, WCH 13463 [BAYLU]
- Gleditsia triacanthos* L., LDS 978 [TEX]
- § *Glottidium vesicaria* (Jacq.) R.M. Harper, WCH 4937 [BAYLU]
- § *Indigofera miniata* Ortega, WCH 5252 [BAYLU]
- *§ *Lathyrus hirsutus* L., VCH 213 [BAYLU]
- Lathyrus pusillus* Elliot, LDS 434 [BAYLU, TEX]
- Lespedeza texana* Britton, LDS 770 [TEX]
- § *Lespedeza violacea* (L.) Pers., CH s.n. [BAYLU]
- Lespedeza virginica* (L.) Britton, LDS 853 [TEX]
- § *Lotus unifoliolatus* (Hook.) Benth., LDS 611 [BAYLU]
- τ *Lupinus texensis* Hook., WCH 6447 [BAYLU]
- *§ *Medicago arabica* (L.) Huds., ELH s.n. [BAYLU]
- * *Medicago lupulina* L., LDS 407 [TEX]
- * *Medicago minima* (L.) L., LDS 453 [BAYLU, TEX]
- *§ *Medicago polymorpha* L., Y s.n. [BAYLU]
- * *Medicago sativa* L., LDS 830 [TEX]
- * *Melilotus albus* Medik., LDS 744 [TEX]
- * *Melilotus indicus* (L.) All., WCH 7897 [BAYLU]
- * *Melilotus officinalis* (L.) Lam., LDS 1158 [TEX]
- Mimosa aculeaticarpa* Ortega, cited in Turner, et al. (2003)
- Mimosa borealis* A. Gray, LDS 1071 [TEX]
- Mimosa roemeriana* Scheele, LDS 957 [TEX]
- Neptunia lutea* (Leavenw.) Benth., WCH 13265 [BAYLU]
- Parkinsonia aculeata* L., AK 232 [BAYLU]
- Pediomelum cuspidatum* (Pursh) Rydb., WCH 6459 [TEX]
- τ§ *Pediomelum cyphocalyx* (A. Gray) Rydb., PJT s.n. [BAYLU]
- § *Pediomelum digitatum* (Nutt. ex Torr. & A. Gray) Isely, LDS 153 [BAYLU]
- τ *Pediomelum hypogaeum* (Nutt. ex Torr. & A. Gray) Rydb. var. *scaposum* (A. Gray) Mahler, LDS 467 [BAYLU, TEX]
- § *Pediomelum latestipulatum* (Shinnars) Mahler var. *latestipulum* WCH 13770 [BAYLU]
- Pediomelum rhombifolium* (Torr. & A. Gray) Rydb., LDS 660 [BAYLU, TEX]

- Prosopis glandulosa* Torr., LDS 784 [TEX]
Psoralidium tenuiflorum (Pursh) Rydb., WCH 5081 [BAYLU]
*† *Pueraria montana* (Lour.) Merr. var. *lobata* (Willd.) Maesen & S. Almeida, WCH 14189 & JNM [BAYLU]
Rhynchosia latifolia Nutt. ex Torr. & A. Gray, LDS 836 [TEX]
§ *Rhynchosia minima* (L.) DC., LDS 1184 [BAYLU]
Rhynchosia senna Gillies ex Hook., LDS 769 [TEX]
Rhynchosia senna var. *texana* WCH 5254 [BAYLU]
§ *Robinia pseudoacacia* L., JJ 68 [BAYLU]
* *Senna occidentalis* (L.) Link, cited in Plank (1892)
Senna roemeriana (Scheele) H.S. Irwin & Barneby, WCH 5042 [BAYLU]
Sesbania emerus (Aubl.) Urban, LDS 176 [TEX]
§ *Sesbania herbacea* (Mill.) McVaugh, cited in Pace (1924)
Sophora affinis Torr. & A. Gray, WCH 6263 [BAYLU]
Sophora secundiflora (Ortega) Lag. ex DC., cited in Turner, et al. (2003)
Strophostyles helvola (L.) Elliot, WCH 6211 [BAYLU]
§ *Strophostyles leiosperma* (Torr. & A. Gray) Piper, BCT s.n. [TEX]
§ *Tephrosia virginiana* (L.) Pers., BGu s.n. [BAYLU]
* *Trifolium arvense* L., cited in Turner, et al. (2003)
§ *Trifolium carolinianum* Michx., DW 63 [BAYLU]
*§ *Trifolium dubium* Sibth., PS s.n. [BAYLU]
*§ *Trifolium incarnatum* L., KCo s.n. [BAYLU]
* *Trifolium polymorphum* Poir., LDS 429 [TEX]
*§ *Trifolium repens* L., SM 71 [BAYLU]
*§ *Trifolium vesiculosum* Savi, WCH 13269 [BAYLU]
τ *Vicia ludoviciana* Nutt. var. *ludoviciana* LDS 1145 [TEX]
§ *Vicia minutiflora* A. Dietr., EH s.n. [BAYLU]
*§ *Vicia sativa* L., ES 49 [BAYLU]
* *Vicia villosa* Roth., WCH 6461 [BAYLU]
* *Vicia villosa* Roth. subsp. *varia* (Host) Corb., CG s.n. [BAYLU]
*§ *Vigna unguiculata* (L.) Walp. subsp. *unguiculata*, cited in Pace (1924)
*§ *Wisteria sinensis* (Sims) DC., KCo s.n. [BAYLU]
Zornia bracteata J.F. Gmel., LDS 835 [TEX]

FAGACEAE

- τ *Quercus buckleyi* Nixon & Dorr, LDS 986 [TEX]
Quercus fusiformis Small, LDS 52-614 [TEX]
Quercus macrocarpa Michx., LDS 52-609 [TEX]
§ *Quercus marilandica* Münchh., WCH 11189 [BAYLU]
§ *Quercus muehlenbergii* Engelm., FG s.n. [BAYLU]
§ *Quercus nigra* L., LDS 384a [BAYLU]
Quercus shumardii Buckley, AK 207 [BAYLU]
Quercus sinuata Walter, LDS 226 [BAYLU]
Quercus sinuata Walter var. *breviloba* (Torr.) C.H. Müll., WCH 5433 [BAYLU, TEX]
§ *Quercus stellata* Wangenh., WCH 11188 [BAYLU]

§ *Quercus virginiana* Mill., LDS s.n. [BAYLU]

FUMARIACEAE

Corydalis curvisiliqua Engelm. var. *grandibracteata* (Fedde) G.B. Ownbey, LDS 355 [TEX]

Corydalis micrantha (Engelm. ex A. Gray) A. Gray, WCH 5030 [BAYLU]

Corydalis micrantha (Engelm. ex A. Gray) A. Gray var. *australis* (Chapm.) G.B. Ownbey, GBO & FO 1654 [TEX]

GENTIANACEAE

§ *Centaurium beyrichii* (Torr. & A. Gray) B.L. Rob., WCH 9538 [BAYLU]

Centaurium muehlenbergii (Griseb.) W. Wight ex Piper, WCH 7259 [BAYLU]

Centaurium texense (Griseb.) Fernald, WCH 5278 [BAYLU, TEX]

Eustoma exaltatum (L.) Salisb. ex. Don, cited in Turner, et al. (2003)

Eustoma grandiflorum (Raf.) Shinnars, JRM 1724 [TEX]

Sabatia campestris Nutt., LDS 629 [TEX]

GERANIACEAE

*§ *Erodium cicutarium* (L.) L'Hér. ex Aiton, G 546 [BAYLU]

Erodium texanum A. Gray, WCH 6962 [BAYLU]

Geranium texanum (Trel.) A. Heller, CLY 46110 [TEX]

HALORAGACEAE

§ *Myriophyllum heterophyllum* Michx., F s.n. [BAYLU]

HIPPOCASTANACEAE

Aesculus arguta Buckley, WCH 5242 [BAYLU]

HYDRANGEACEAE

§ *Philadelphus grandiflorus* Willd., LDS s.n. [TEX]

HYDROPHYLLACEAE

Nama hispidum A. Gray, LDS 593 [BAYLU, TEX]

Nama jamaicense L., LDS 793 [TEX]

Nemophila phacelioides Nutt., WCH 5020 [BAYLU]

Phacelia congesta Hook., LDS 1121 [TEX]

§ *Phacelia glabra* Nutt., leg. ign. [BAYLU]

§ *Phacelia hirsuta* Nutt., ELH s.n. [BAYLU]

§ *Phacelia patuliflora* (Engelm. & A. Gray) A. Gray, LP 51 [BAYLU]

Phacelia strictiflora (Engelm. & A. Gray) A. Gray, LDS 1063 [TEX]

JUGLANDACEAE

Carya illinoensis (Wangenh.) K. Koch, LDS 216 [TEX]

Juglans microcarpa Berl. var. *microcarpa*, cited in Pace (1924)

Juglans nigra L., VCH 286 [BAYLU]

KRAMERIACEAE

Krameria lanceolata Torr., WCH 5659 [BAYLU]

LAMIACEAE

- * *Ajuga reptans* L., LDS 1179 [TEX]
Hedeoma acinoides Scheele, LDS 489 [TEX]
Hedeoma drummondii Benth., WCH 8263 [BAYLU]
- § *Hedeoma hispida* Pursh, He s.n. [BAYLU]
Hedeoma reverchonii (A. Gray) A. Gray, LDS 1169 [TEX]
- * *Lamium amplexicaule* L., LDS 356 [BAYLU, TEX]
Lycopus americanus Muhl. ex Barton, LDS 783 [TEX]
- § *Lycopus virginicus* L., LDS s.n. [BAYLU]
- * *Marrubium vulgare* L., LDS 19 [BAYLU, TEX]
- *§ *Mentha piperita* L., WCH 13506 [BAYLU]
- *§ *Moluccella laevis* L., Ho s.n. [BAYLU]
- § *Monarda citriodora* Cerv. ex Lag., WCH 5274 [BAYLU]
Monarda clinopodioides A. Gray, DW s.n. [BAYLU]
Monarda fistulosa L. var. *mollis* (L.) Benth., LDS 738 [TEX]
Monarda punctata L. var. *intermedia* (E.M McClint. & Epling) Waterf., LDS 640 [TEX]
- § *Monarda punctata* L. subsp. *punctata* var. *lasiodonta* A. Gray, cited in Pace (1924)
- * *Nepeta cataria* L., cited in Turner, et al. (2003)
Physostegia intermedia (Nutt.) Engelm. & A. Gray, LDS 664 [TEX]
Physostegia pulchella Lundell, CLL 18817 [LL]
Salvia azurea Michx. ex Lam. var. *grandiflora* Benth., CLY 46143 [TEX]
Salvia coccinea Buchoz ex Etl., LDS 670 [TEX]
- τ *Salvia engelmannii* A. Gray, LDS 523 [TEX]
Salvia farinacea Benth., WCH 5257 [BAYLU]
- § *Salvia reflexa* Hornem., WCH 11192 [BAYLU]
Salvia texana (Scheele) Torr., CLY 46025 [TEX]
- § *Scutellaria cardiophylla* Engelm., & A. Gray, MJR s.n. [BAYLU]
Scutellaria drummondii Benth., WCH 5266 [BAYLU]
Scutellaria drummondii Benth. var. *edwardsiana* B.L. Turner, LDS 455 [TEX]
Scutellaria ovata Hill, LDS 657
- § *Scutellaria resinosa* Torr., ELH s.n.
- § *Scutellaria wrightii* A. Gray, JJ 76
- § *Stachys crenata* Raf., LDS 435 [BAYLU, TEX]
Stachys drummondii Benth., PJT s.n. [BAYLU]
Teucrium canadense L., LDS 733 [TEX]
Warnockia scutellarioides (Engelm. & A. Gray) M.W. Turner, MHM 1258 [TEX]

LAURACEAE

- § *Lindera benzoin* (L.) Blume var. *benzoin*, cited in Pace (1924)

LINACEAE

Linum berlandieri Hook. var. *berlandieri* WCH 5658 [TEX]

- *§ *Linum grandiflorum* Desf., MDA 97 [BAYLU]
- Linum imbricatum* (Raf.) Shinnars, LDS 681 [TEX]
- § *Linum pratense* (J.B. Norton) Small, WCH 5245 [BAYLU]
- *§ *Linum usitatissimum* L., SM 53 [BAYLU]

LOASACEAE

- Mentzelia oligosperma* Nutt. ex Sims., MHM 1235 [TEX]

LOGANIACEAE

- *§ *Gelsemium sempervirens* (L.) Ait. f., PS s.n. [BAYLU]
- Mitreola petiolata* (J.F. Gmel.) Torr. & A. Gray, LDS 66 [BAYLU, TEX]
- Sipgelia hedyotideia* A. DC., LDS 507 [TEX]

LYTHRACEAE

- Ammannia coccinea* Rottb., WCH 5469 [BAYLU]
- *§ *Lagerstroemia indica* L., JS s.n. [BAYLU]
- Lythrum alatum* Pursh, CLY 46092 [LL]
- Lythrum alatum* Pursh var. *lanceolatum* (Elliot) Rottb. & A. Gray ex Rothr., LDS 72 [TEX]
- Lythrum californicum* Torr. & A. Gray, LDS 72 [TEX]
- § *Rotala ramosior* (L.) Koehne, LDS 792 [TEX]

MAGNOLIACEAE

- * *Magnolia grandiflora* L., MB 68 [BAYLU]

MALPHIGHIACEAE

- * *Galphimia angustifolia* Benth., MCJ s.n. [BAYLU]

MALVACEAE

- Abutilon berlandieri* Gray ex S. Wats., MM s.n. [BAYLU]
- Abutilon fruticosum* Guill. & Perr., WCH 5083 [BAYLU]
- Abutilon incanum* (Link.) Sweet, cited in Pace (1924)
- *§ *Abutilon theophrasti* Medik., PB s.n. [BAYLU]
- Callirhoe digitata* Nutt., cited in Pace (1924)
- Callirhoe involucrata* (Torr. & A. Gray) A. Gray, LDS 1118 [TEX]
- Callirhoe leiocarpa* R.F. Martin, CCA 47026 [TEX]
- Callirhoe pedata* (Nutt. ex Hook.) A. Gray, MHM 1247 [TEX]
- *§ *Malva neglecta* Wallr., KH 52 [BAYLU]
- § *Malvastrum aurantiacum* (Scheele) Walp., WCH 5281 [BAYLU]
- Malvaviscus arboreus* Dill. ex Cav. var. *drummondii* (Torr. & A. Gray) Schery, WCH 5462 [BAYLU]
- § *Modiola caroliniana* (L.) G. Don, LDS 1187 [BAYLU]
- Rhynchosida physocalyx* (A. Gray) Fryxell, LDS 203 [TEX]
- * *Sida abutifolia* Mill., LDS 30 [BAYLU, TEX]
- Sida rhombifolia* L., LDS 241 [TEX]
- Sida spinosa* L., LDS 965 [TEX]

MELIACEAE

- * *Melia azedarach* L., LDS 199 [TEX]

MENISPERMACEAE

- Cocculus carolinus* (L.) DC., LDS 935 [TEX]
- Menispermum canadense* L., cited in Turner, et al. (2003)

MIMOSACEAE

- § *Mimosa microphylla* Dryand., cited in Pace (1924)

MOLLUGINACEAE

- Mollugo verticillata* L., LDS 967 [TEX]

MORACEAE

- * *Broussonetia papyrifera* (L.) L'Hér. ex Vent., WCH 6262 [BAYLU]
- *§ *Fatoua villosa* (Thunb.) Nakai, WCH 12600 [BAYLU]
- § *Maclura pomifera* (Raf.) C.K. Schneid., WCH 5171 [BAYLU]
- * *Morus alba* L., LDS 379 [TEX]
- Morus microphylla* Buckley, WCH 6438 [BAYLU, TEX]
- Morus rubra* L., WCH 5022 [BAYLU]

MYRICACEAE

- * *Myrica cerifera* L., SP 15 [SMU]

NELUMBONACEAE

- Nelumbo lutea* (Willd.) Pers., CLY & LDS 113 [TEX]

NYCTAGINACEAE

- § *Allionia incarnata* L., WCH 4942 [BAYLU]
- Boerhavia diffusa* L., LDS 193 [TEX]
- Boerhavia erecta* L., WCH 5459 [BAYLU, TEX]
- Mirabilis albida* (Walter) Heimerl, WCH 12028 [BAYLU]
- τ *Mirabilis gigantea* (Standl.) Shinnars, WCH 6208 [BAYLU]
- *§ *Mirabilis jalapa* L., BGu s.n. [BAYLU]
- § *Mirabilis linearis* (Pursh) Heimerl, WCH 10542 [BAYLU, TEX]
- Mirabilis multiflora* (Torr.) A. Gray, cited in Pace (1924)

NYMPHAEACEAE

- Nuphar advena* (Aiton) W.T. Aiton in Aiton & W.T. Aiton, CLY 46231 [TEX]
- § *Nymphaea mexicana* Zucc., SAC 25 [BAYLU]
- § *Nymphaea odorata* Aiton, SAC 26 [BAYLU]

OLEACEAE

- Forestiera pubescens* Nutt., WCH 4995 [BAYLU]
- Fraxinus americana* L., AK 206 [BAYLU]
- Fraxinus pennsylvanica* Marshall, WCH 6229 [BAYLU]

§ *Fraxinus texensis* (A. Gray) Sarg., LDS 1036 [TEX]

*§ *Ligustrum japonicum* Thunb., VCH 211 [BAYLU]

*§ *Ligustrum sinense* Lour., WCH 13773 [BAYLU]

*§ *Ligustrum vulgare* L., cited in Pace (1924)

*§ *Syringa × chinensis* Willd., KJ 63 [BAYLU]

*§ *Syringa vulgaris* L., cited in Pace (1924)

ONAGRACEAE

§ *Calylophus berlandieri* Spach, WCH 5256 [BAYLU]

Calylophus berlandieri Spach subsp. *pinifolius* (Engelm. ex A. Gray) Towner, CLY 46074 [TEX]

Gaura brachycarpa Small, LDS 439 [TEX]

§ *Gaura coccinea* Nutt. Ex Pursh, KL 93 [BAYLU]

Gaura drummondii (Spach) Torr. & A. Gray, LDS 1103 [TEX]

Gaura filipes Spach., cited in Pace (1924)

§ *Gaura lindheimeri* Engelm. & A. Gray, RW s.n. [BAYLU]

Gaura parviflora Douglas ex Lehm., CLY 46115 [TEX]

Gaura sinuata Nutt. ex Ser., MHM 1257 [TEX]

Gaura suffulta Engelm. ex A. Gray var. *suffulta* CLY 46027 [TEX]

Ludwigia glandulosa Walter, LDS 863 [TEX]

Ludwigia leptocarpa (Nutt.) H. Hara, LDS 1043 [TEX]

§ *Ludwigia octovalvis* (Jacq.) P.H. Raven, EH s.n. [BAYLU]

§ *Ludwigia palustris* (L.) Elliott, WCH 5088 [BAYLU]

Ludwigia peploides (Kunth) P.H. Raven, WCH 10232 [BAYLU, TEX]

Ludwigia repens J.R. Forst., LDS 917 [TEX]

§ *Oenothera grandis* (Britton) Smyth, JT 84 [BAYLU]

Oenothera laciniata Hill, LDS 404 [TEX]

Oenothera macrocarpa Nutt. subsp. *macrocarpa* CLY 46149 [TEX]

Oenothera rhombipetala Nutt. ex Torr. & A. Gray, WCH 12391 [BAYLU]

Oenothera speciosa Nutt., LDS 418 [BAYLU, TEX]

Oenothera triloba Nutt., LDS 441 [TEX]

§ *Stenosiphon linifolius* (Nutt. ex E. James) Heynh., WCH 6221 [BAYLU]

OROBANCHACEAE

§ *Orobanche ludoviciana* Nutt. subsp. *multiflora* (Nutt.) Collins ex. H.L. White & W.C. Holmes, KWi s.n. [BAYLU]

OXALIDACEAE

Oxalis dillenii Jacq., SM 32 [BAYLU]

τ *Oxalis drummondii* A. Gray, LDS 1055 [TEX]

§ *Oxalis stricta* L., LDS 883 [TEX]

§ *Oxalis violacea* L., RJ s.n. [BAYLU]

PAPAVERACEAE

§ *Argemone albiflora* Hornem. subsp. *texana* G.B. Ownbey, BEW 58 [BAYLU]

τ *Argemone aurantiaca* G.B. Ownbey, LDS 1154 [TEX]

- Argemone polyanthemus* (Fedde) G.B. Ownbey, LDS 42 [TEX]
 *§ *Papaver rhoeas* L., JLi 144 [BAYLU]
 *§ *Papaver somniferum* L., ST s.n. [BAYLU]

PASSIFLORACEAE

- *§ *Passiflora caerulea* L., WCH 12156 [BAYLU]
Passiflora incarnata L., CLY & LDS 137 [BAYLU]
Passiflora lutea L., LDS 981 [TEX]

PEDALIACEAE

- Proboscidea louisianica* (Mill.) Thell. subsp. *louisianica* WCH 13028 [BAYLU, TEX]

PHYTOLACCACEAE

- Phytolacca americana* L., WCH 5464 [BAYLU, TEX]
Rivina humilis L., WCH 5175 [BAYLU, TEX]

PLANTAGINACEAE

- Plantago aristata* Michx., LDS 579 [TEX]
Plantago elongata Pursh, WCH 13121 [BAYLU]
Plantago helleri Small, LDS 463 [TEX]
Plantago heterophylla Nutt., LDS 403 [TEX]
 § *Plantago hookeriana* Fisch & C.A. Mey., LDS 1184 [BAYLU]
Plantago patagonica Jacq., LDS 511 [TEX]
Plantago rhodosperma Decne., LDS 1143 [TEX]
Plantago virginica L., CLY 46095 [TEX]
Plantago wrightiana Decne., LDS 536 [TEX]

PLATANACEAE

- Platanus occidentalis* L. var. *occidentalis* LDS 574 [TEX]

PLUMBAGINACEAE

- * *Plumbago scandens* L., WCH 12728 [BAYLU]

POLEMONIACEAE

- Ipomopsis ruba* (L.) Wherry, WCH 6660 [BAYLU, TEX]
Phlox cuspidata Scheele, LDS 1056 [TEX]
 § *Phlox drummondii* Hook. subsp. *mcallisteri* (Whitehouse) Wherry, LDS 396 [TEX]
Phlox pilosa L., LDS 460 [BAYLU]
 τ *Phlox roemeriana* Scheele, OS & RS s.n. [LL]

POLYGALACEAE

- Polygala alba* Nutt., LDS 545 [BAYLU, TEX]
 *§ *Polygala lindheimeri* A. Gray, cited in Pace (1924)

POLYGONACEAE

- Eriogonum annuum* Nutt., LDS 90 [TEX]
- Eriogonum longifolium* Nutt., WCH 6225 [TEX]
- § *Polygonum amphibium* L. var. *emersum* Michx., CLY & LDS 148 [BAYLU]
- *§ *Polygonum aviculare* L., LDS 284 [BAYLU]
- Polygonum buxiforme* Small, LDS 1013 [TEX]
- Polygonum densiflorum* Meisn., LDS 292 [BAYLU]
- Polygonum hydropiperoides* Michx., WCH 6227 [BAYLU]
- Polygonum lapathifolium* L., WCH 6261 [BAYLU]
- Polygonum pensylvanicum* L., VCH 231 [BAYLU]
- Polygonum ramosissimum* Michx., WCH 6265 [BAYLU, TEX]
- § *Polygonum tenue* Michx., LDS 596 [BAYLU]
- Rumex altissimus* Wood, LDS 445 [BAYLU, TEX]
- * *Rumex crispus* L., CLY 46083 [TEX]
- Rumex hastatulus* Baldwin, LDS 484 [TEX]
- * *Rumex pulcher* L., LDS 519 [TEX]

PORTULACACEAE

- Claytonia virginica* L., LDS 417 [TEX]
- * *Portulaca grandiflora* Hook., cited in Pace (1924)
- *§ *Portulaca oleracea* L., cited in Pace (1924)
- § *Portulaca pilosa* L., ELH s.n. [BAYLU]
- Portulaca umbraticola* Kunth. subsp. *lanceolata* (Engelm.) J.F. Matthews & Ketron, LDS 314 [TEX]

PRIMULACEAE

- *§ *Anagallis arvensis* L., WCH 12861 [BAYLU]
- § *Anagallis minima* (L.) E.H.L. Krause, WCH 13112 [BAYLU]
- § *Samolus ebracteatus* Kunth subsp. *cuneatus* (Small) R. Kunth, EH s.n. [BAYLU]
- § *Samolus valerandi* L. subsp. *parviflorus* (Raf.) Hultén, WCH 12158 [BAYLU]

PUNICACEAE

- * *Punica granatum* L., KMs 69 [BAYLU]

RANUNCULACEAE

- * *Adonis annua* L., RDG 72 [BAYLU]
- Anemone berlandieri* Pritz., LDS 342 [TEX]
- § *Anemone caroliniana* Walter, AMG s.n. [BAYLU]
- § *Aquilegia canadensis* L., cited in Pace (1924)
- § *Clematis drummondii* Torr. & A. Gray, LP s.n. [BAYLU]
- Clematis pitcheri* Torr. & A. Gray, VCH 224 [BAYLU]
- § *Clematis reticulata* Walter, cited in Turner, et al. (2003)
- * *Clematis terniflora* DC., WCH 13507 [BAYLU]
- Clematis viorna* L., cited in Pace (1924)
- *§ *Consolida ajacis* (L.) Schur, VCH 279 [BAYLU]
- Delphinium carolinianum* Walter subsp. *carolinianum* Hu s.n. [BAYLU]

- Delphinium carolinianum* Walter subsp. *virescens* (Nutt.) R.E. Brooks, CLY 46077 [TEX]
Myosurus minimus L., WCH 6331 [BAYLU, TEX]
Ranunculus fascicularis Muhl. ex Bigelow, LDS 1178 [TEX]
§ *Ranunculus hispidus* Michx. var. *nitidus* (Chapm.) T. Duncan, TLR 43 [BAYLU]
Ranunculus macranthus Scheele, LDS 415 [TEX]
§ *Ranunculus pusillus* Poir., BTW s.n. [BAYLU]

RHAMNACEAE

- Berchemia scandens* (Hill) K. Kock, LDS 950 [TEX]
Ceanothus americanus L., MHM 1263 [TEX]
Ceanothus herbaceus Raf., WCH 5034 [BAYLU, TEX]
§ *Frangula caroliniana* (Walter) A. Gray, CLY & LDS 127 [BAYLU]
* *Zizyphus obtusifolia* (Hook. ex.Torr. & A. Gray) A. Gray, WCH 5263 [BAYLU, TEX]
* *Zizyphus ziziphus* (L.) H. Karst., LDS 1164 [BAYLU, TEX]

ROSACEAE

- τ *Crataegus crus-galli* L., WCH 13119 [BAYLU]
Crataegus mollis Scheele, WCH 12309 [BAYLU]
§ *Crataegus spathulata* Michx., WCH 13470 [BAYLU]
Crataegus viridis L., WCH 7616 [TEX]
* *Duchesnea indica* (Andr.) Focke, KAC 143 [BAYLU]
Geum canadense Jacq., LDS 497 [TEX]
Prunus angustifolia Marshall, LDS 369 [TEX]
Prunus caroliniana (Mill.) Aiton, LPY & MSY s.n. [TEX]
Prunus mexicana S. Watson, LDS 212 [BAYLU, TEX]
*§ *Prunus persica* (L.) Batsch, JAR s.n. [BAYLU]
*§ *Pyrus communis* L., BH 77 [BAYLU]
*§ *Rosa bracteata* J.C. Wendl., LDS s.n. [BAYLU]
* *Rosa multiflora* Thumb. ex Murr., WCH 5028 [BAYLU, TEX]
§ *Rubus aboriginum* Rydb., WHa s.n. [BAYLU]
§ *Rubus apogaeus* L.H. Bailey, SM 30 [BAYLU]
Rubus trivialis Michx., LDS 368 [BAYLU]
§ *Sanguisorba annua* (Nutt. ex Hook.) Torr. & A. Gray, LP s.n. [BAYLU]
Sanguisorba canadensis L., cited in Pace (1924)

RUBIACEAE

- Cephalanthus occidentalis* L., CLY 46160 [TEX]
Diodia teres Walter, LDS 874 [TEX]
Galium aparine L., CLY 46098 [TEX]
Galium circaezans Michx., LDS 496 [BAYLU, TEX]
Galium pilosum Aiton, LDS 669 [TEX]
§ *Galium texense* A. Gray, MMP s.n. [BAYLU]
Galium virgatum Nutt., JRM 1970 [TEX]
Hedyotis nigricans (Lam.) Fosberg, WCH 5082 [BAYLU]

- § *Houstonia micrantha* (Shinners) Terrell, VCH 202 [BAYLU]
- Houstonia pusilla* Schoepf, LDS 1062 [TEX]
- § *Houstonia rosea* (Raf.) Terrell, LDS 345 [TEX]
- Richardia tricocca* (Torr. & A. Gray) Standl., LDS 1163 [TEX]
- *§ *Sherardia arvensis* L., HLW 82 [BAYLU]

RUTACEAE

- *§ *Citrus* × *aurantium* L. subsp. *aurantium*, cited in Pace (1924)
- *§ *Poncirus trifoliata* (L.) Raf., T s.n. [BAYLU]
- Ptelea trifoliata* L., WCH 5019 [BAYLU]
- Ptelea trifoliata* L. subsp. *trifoliata* var. *mollis* Torr. & A. Gray, LDS 651 [TEX]
- Zanthoxylum americanum* Mill., cited in Pace (1924)
- Zanthoxylum clava-herculis* L., CLY 46148 [TEX]

SALICACEAE

- *§ *Populus alba* L., LP s.n. [BAYLU]
- Populus deltoides* Bartram ex Marshall, BH 22 [BAYLU]
- Salix nigra* Marshall, CLY [TEX]

SAPINDACEAE

- *† *Cardiospermum halicacabum* L., WCH 4935 [BAYLU]
- *§ *Koeleria paniculata* Lam., HB s.n. [BAYLU]
- Sapindus saponaria* L. var. *drummondii* (Hook. & Arn.) L.D. Benson, WCH 8336 [BAYLU]
- Sapindus saponaria* L. var. *saponaria*, cited in Pace (1924)
- Ungnadia speciosa* Endl., WCH 6458 [BAYLU]

SAPOTACEAE

- Sideroxylon lanuginosum* Michx., CLY 46246 [TEX]
- Sideroxylon lycioides* L., cited in Plank (1892)

SAXIFRAGACEAE

- Lepuropetalon spathulatum* Elliot, B&K 63 [TEX]

SCROPHULARIACEAE

- Agalinis fasciculata* (Elliot) Raf., cited in Turner, et al. (2003)
- Agalinis heterophylla* (Nutt.) Small ex Britton, WCH 6222 [BAYLU, TEX]
- § *Bacopa monnieri* (L.) Pennell, AMG s.n. [BAYLU]
- Bacopa rotundifolia* (Michx.) Wettst., LDS 877 [TEX]
- *§ *Bellardia trixago* (L.) All., WCH 9924 [BAYLU, TEX]
- Castilleja indivisa* Engelm., LDS 389 [BAYLU]
- τ§ *Castilleja purpurea* (Nutt.) G. Don var. *lindheimeri* (A. Gray) Shinners, LDS s.n. [BAYLU]
- Castilleja purpurea* (Nutt.) G. Don var. *purpurea* MHM 1261 [TEX]
- *§ *Leucophyllum frutescens* (Berland.) I.M. Johnst., VCH 282 [BAYLU]
- Leucospora multifida* (Michx.) Nutt., CLY 46237 [TEX]

- *§ *Linaria vulgaris* Mill., Hy s.n. [BAYLU]
- § *Maurandya antirrhiniflora* Humb. & Bonpl. ex Willd., WCH 12830 [BAYLU, TEX]
- *§ *Mazus pumilus* (Burm. f.) Steenis, B 39 [BAYLU]
- § *Mecardonia procumbens* (Mill.) Small, WCH 5467 [BAYLU]
- § *Mimulus glabratus* Kunth, G 566 [BAYLU]
- § *Nuttallanthus canadensis* (L.) D.A. Sutton, ELH s.n. [BAYLU]
- § *Nuttallanthus texanus* (Scheele) D.A. Sutton, LDS 386 [TEX]
- § *Penstemon cobaea* Nutt., WCH 5026 [BAYLU, TEX]
- § *Penstemon digitalis* Nutt. ex Sims, WCH 13774 [BAYLU]
- § *Penstemon laevigatus* Aiton, cited in Pace (1924)
- § *Penstemon laxiflorus* Pennell, LDS 1084 [TEX]
- τ§ *Penstemon triflorus* A. Heller, subsp. *integrifolius* Pennell, LDS 482 [BAYLU]
- * *Verbascum thapsus* L., LDS 221 [BAYLU, TEX]
- *§ *Veronica arvensis* L., AMG s.n. [BAYLU]
- § *Veronica peregrina* L., LDS 373 [BAYLU, TEX]
- *§ *Veronica persica* Poir., AMG s.n. [BAYLU]
- * *Veronica polita* Fr., LDS 1069 [TEX]

SIMAROUBACEAE

- *§ *Ailanthus altissima* (Mill.) Swingle, WCH 5262 [BAYLU]

SOLANACEAE

- § *Calibrachoa parviflora* (Juss.) D'Arcy, JNM 1260 [BAYLU]
- * *Capsicum annuum* L., cited in Turner, et al. (2003)
- § *Capsicum annuum* L. var. *glabriusculum* (Dunal) Heiser & Pickersgill, cited in Plank (1892)
- *§ *Datura stramonium* L., cited in Pace (1924)
- § *Datura wrightii* Regel, BS s.n. [BAYLU]
- *§ *Petunia axillaris* (Lam.) Britton, Sterns, & Poggenb., AMG s.n. [BAYLU]
- § *Physalis angulata* L., WCH 12388 [BAYLU]
- § *Physalis cinerascens* (Dunal) Hitchc., WCH 8726 [BAYLU]
- § *Physalis heterophylla* Nees, LDS 620 [TEX]
- § *Physalis longifolia* Nutt., LDS 621 [TEX]
- § *Physalis mollis* Nutt., ELH s.n. [BAYLU]
- § *Physalis pubescens* L., LDS 59 [TEX]
- § *Physalis pumila* Nutt., MJ s.n. [BAYLU]
- § *Solanum carolinense* L., LDS s.n. [BAYLU]
- § *Solanum dimidiatum* Raf., CLY 46113 [TEX]
- § *Solanum elaeagnifolium* Cav., LDS 253 [TEX]
- § *Solanum ptychanthum* Dunal, LDS 18 [TEX]
- § *Solanum rostratum* Dunal, RR 2219 [TEX]
- § *Solanum triquetrum* Cav., LDS 1176 [TEX]

STERCULIACEAE

- *§ *Firmiana simplex* W. Wright, WCH 12549 [BAYLU]

TAMARICACEAE

*†§ *Tamarix gallica* L., LDS s.n. [BAYLU]

*† *Tamarix ramosissima* Ledeb., LDS [LL]

ULMACEAE

Celtis laevigata Willd., WCH 5435 [BAYLU, TEX]

Celtis laevigata Willd. var. *reticulata* Torr., VCH 219 [BAYLU]

Celtis tenuifolia Nutt., cited in Pace (1924)

§ *Ulmus alata* Michx., VCH 60 [BAYLU]

Ulmus americana L., WCH 5085 [BAYLU]

Ulmus crassifolia Nutt., WCH 5434 [BAYLU, TEX]

URTICACEAE

Parietaria pensylvanica Muhl. ex Willd., LDS 425 [TEX]

Urtica chamaedryoides Pursh, LDS 336 [TEX]

VALERIANACEAE

Valerianella amarella (Lindh. ex Engelm.) Krok, WCH 5250 [BAYLU]

Valerianella radiata (L.) Dufr., LDS 348 [TEX]

Valerianella woodsiana (Torr. & A. Gray) Walp., LDS 408 [TEX]

VERBENACEAE

Aloysia gratissima (Gillies & Hook.) Tronc., ELH s.n. [BAYLU]

Callicarpa americana L., LDS 89 [BAYLU, TEX]

Duranta erecta L., cited in Plank (1892)

Glandularia bipinnatifida (Nutt.) Nutt., CLY 46100 [TEX]

Glandularia pumila (Rydb.) Umber, LP s.n. [BAYLU]

Lantana urticoides Hayek, ELH s.n. [BAYLU]

§ *Lippia lanceolata* Michx., LDS s.n. [BAYLU]

§ *Lippia nodiflora* (L.) Michx., VCH 242 [BAYLU]

§ *Verbena canescens* Kunth, SM 47 [BAYLU]

Verbena halei Small, CLY 46087 [TEX]

§ *Verbena neomexicana* (A. Gray) Small var. *hirtella* L.M Perry, VCH 207 [BAYLU]

* *Verbena officinalis* L., cited in Pace (1924)

§ *Verbena urticifolia* L., AMG s.n. [BAYLU]

Verbena xutha Lehm., LDS 649 [TEX]

*§ *Vitex agnus-castus* L., Wi s.n. [BAYLU]

VIOLACEAE

Hybanthus verticillatus (Ortega) Baill., WCH 7660 [BAYLU]

Viola bicolor Pursh, LDS 360 [TEX]

Viola sororia Willd., LDS 335 [TEX]

VISCACEAE

Phoradendron tomentosum (DC.) Engelm. ex A. Gray, LDS 184 [TEX]

VITACEAE

- Ampelopsis arborea* (L.) Koehne, LDS 612 [TEX]
- Ampelopsis cordata* Michx., LDS 948 [TEX]
- Cissus incisa* Des Moul., LDS 652 [TEX]
- τ§ *Parthenocissus heptaphylla* (Buckley) Britton ex Small, LDS 1003 [TEX]
- Parthenocissus quinquefolia* (L.) Planch., CLY 46154 [BAYLU, TEX]
- § *Vitis aestivalis* Michx., St s.n. [BAYLU]
- § *Vitis cinerea* (Engelm.) Engelm. ex Millard, BTW s.n. [BAYLU]
- Vitis cinerea* (Engelm.) Millardet var. *helleri* (L.H. Bailey) M.O. Moore, CLY 46136 [TEX]
- Vitis mustangensis* Buckley, CLY 46233 [TEX]
- § *Vitis riparia* Michx., S s.n. [BAYLU]
- § *Vitis vulpina* L., LDS 146 [BAYLU]

ZYGOPHYLLACEAE

- § *Kallstroemia maxima* (L.) Hook. & Arn., cited in Pace (1924)
- Kallstroemia parviflora* Norton, LDS 200 [TEX]
- * *Tribulus terrestris* L., ELH s.n. [BAYLU]

Monocotyledonss

AGAVACEAE

- Yucca aloifolia* L., EM s.n. [BAYLU]
- § *Yucca arkansana* Trel., WCH 13250 [BAYLU]
- § *Yucca louisianensis* Trel., JB 46 [BAYLU]
- τ *Yucca pallida* McKelvey, VCH 218 [BAYLU]
- τ *Yucca rupicola* Scheele, EW s.n. [TEX]
- τ *Yucca tenuistyla* Trel., AB s.n. [BAYLU]
- § *Yucca treculeana* Carr., VAW s.n. [BAYLU]

ALISMATACEAE

- Echinodorus berteroi* (Spreng.) Fassett, WCH 5468 [BAYLU]
- § *Echinodorus cordifolius* L., LDS s.n. [BAYLU]
- § *Sagittaria lancifolia* L., BGu s.n. [BAYLU]
- § *Sagittaria longiloba* Engelm. ex J.G. Sm., ELH s.n. [BAYLU]
- Sagittaria platyphylla* (Engelm.) J.G. Sm., LDS 111 [TEX]

ARACEAE

- Arisaema dracontium* (L.) Schott, LDS 980 [TEX]

ARECACEAE

- § *Sabal minor* (Jacq.) Pers., KMs 039 [BAYLU]

BROMELIACEAE

- § *Tillandsia recurvata* (L.) L., WCH 11195, DEW, RSB [BAYLU]

COMMELINACEAE

- § *Commelina diffusa* Burm. f., JDH 82 [BAYLU]
 Commelina erecta L., LDS 982 [TEX]
 Commelina virginica L., BGu s.n. [BAYLU]
τ *Tinantia anomala* (Torr.) C.B. Clarke, D 84 [BAYLU]
τ§ *Tradescantia edwardsiana* Tharp, G 583 [BAYLU]
§ *Tradescantia gigantea* Rose, ES 27 [BAYLU]
§ *Tradescantia hirsutiflora* Bush, C s.n. [BAYLU]
 Tradescantia occidentalis (Britton) Smyth, LP s.n. [TEX]
 Tradescantia ohiensis Raf., CLY 46019 [TEX]
§ *Tradescantia reverchonii* Bush, R s.n. [BAYLU]

CYPERACEAE

- § *Carex blanda* Dewey, MG 26 [BAYLU]
§ *Carex brevior* (Dewey) Mack. ex Lundell, WCH 13263 [BAYLU]
 Carex bulbostylis Mack., LDS 393 [BAYLU, TEX]
 Carex crus-corvi Shuttlew. ex Kunze, LDS 923 [TEX]
§ *Carex emoryi* Dewey, WCH 5656 [BAYLU]
 Carex grisea Wahlenb., LDS 1091 [TEX]
 Carex leavenworthii Dewey, LDS 1092 [TEX]
§ *Carex longii* Mack., VCH 206 [BAYLU]
 Carex microdonta Torr. & Hook., WCH 13120 [BAYLU]
 Carex muehlenbergii Schkuhr ex Willd. var. *enervis* Boott, WCH 5650 [BAYLU, TEX]
 Carex perdentata S.D. Jones, LDS 479 [TEX]
 Carex planostachys Kunze, CHi 50 [BAYLU]
 Carex retroflexa Muhl. ex Willd., LDS 394 [TEX]
 Carex tetrastachya Scheele, LDS 486b [TEX]
 Cyperus acuminatus Torr. & Hook., LDS 751 [TEX]
 Cyperus articulatus L., JR 3577 [TEX]
§ *Cyperus croceus* Vahl, WCH 12025 [BAYLU]
§ *Cyperus echinatus* (L.) A.W. Wood, WCH 13349 [BAYLU]
 Cyperus erythrorhuzos Muhl., DV s.n. [BAYLU]
*§ *Cyperus esculentus* L., LP s.n. [BAYLU]
 Cyperus odoratus L., LDS 329 [TEX]
 Cyperus pseudovegetus Sted., WCH 13257 [BAYLU]
 Cyperus retroflexus Buckley, LDS 786 [TEX]
*§ *Cyperus rotundus* L., FH s.n. [BAYLU]
 Cyperus setigerus Torr. & Hook., CLY 46103 [TEX]
 Cyperus squarrosus L., LDS 278 [TEX]
 Cyperus strigosus L., DV s.n. [BAYLU]
§ *Eleocharis acicularis* (L.) Roem. & Schult, VCH 234 [BAYLU]
§ *Eleocharis acutisquamata* Buckley, LDS 473 [BAYLU]

- § *Eleocharis engelmannii* Steud., LDS 975 [BAYLU, TEX]
- Eleocharis geniculata* (L.) Roem. & Schult., LDS 959 [BAYLU, TEX]
- Eleocharis montevidensis* Kunth., LDS s.n. [BAYLU]
- Eleocharis occulata* S.G. Sm., LDS 473 [TEX]
- Eleocharis palustris* (L.) Roem. & Schult., WCH 5033 [BAYLU]
- Fuirena simplex* Vahl var. *aristulata* (Torr.) Kral, LDS 94 [BAYLU, TEX]
- Fuirena simplex* Vahl var. *simplex* LDS 702 [BAYLU]
- § *Schoenoplectus acutus* (Muhl. ex Bigelow) À. Löve & D. Löve, LP s.n. [BAYLU]
- Schoenoplectus californicus* (C.A. Mey.) Soják, CLY & LDS 116 [TEX]
- § *Scleria oligantha* Michx., WCH 13251 [BAYLU]

HYDROCHARITACEAE

- *†§ *Hydrilla verticillata* (L. f.) Royle, SAC 5 [BAYLU]

IRIDACEAE

- § *Alophia drummondii* (Graham) R.C. Foster, AP 34 [BAYLU]
- *§ *Iris germanica* L., LJ 30 [BAYLU]
- Nemastylis geminiflora* Nutt., LDS 1088 [TEX]
- § *Sisyrinchium angustifolium* Mill., BWi s.n. [BAYLU]
- § *Sisyrinchium chilense* Hook., JJ 45 [BAYLU]
- Sisyrinchium langloisii* Greene, CLY 46022 [TEX]
- Sisyrinchium minus* Engelm. & A. Gray, LDS 1099 [TEX]
- § *Sisyrinchium pruinsum* E.P. Bicknell, LDS 430 [BAYLU]

JUNCACEAE

- § *Juncus interior* Wiegand, WCH 13255 [BAYLU]
- Juncus marginatus* Rostk., LDS 661 [TEX]
- § *Juncus tenuis* Willd., LDS s.n. [BAYLU]
- τ *Juncus texanus* (Engelm.) Coville, CLY 46088 [TEX]
- Juncus torreyi* Coville, WCH 13256 [BAYLU]

LEMNACEAE

- § *Lemna minor* L., SAC 3 [BAYLU]
- § *Lemna minuta* Kunth, WCH 13116 [BAYLU]
- Spirodela polyrrhiza* (L.) Schleid., JRM 351 [LL]
- Wolffia brasiliensis* Wedd., JRM 359 [LL]
- § *Wolffia columbiana* H. Karst., WCH 13117 [BAYLU]

LILIACEAE

- Allium canadense* L. var. *canadense* LDS 506 [TEX]
- Allium drummondii* Regel, LDS 457 [TEX]
- § *Androstephium coeruleum* (Sheele) Greene, ELH s.n. [BAYLU]
- * *Asparagus officinalis* L., LDS 318 [BAYLU, TEX]
- Camassia scilloides* (Raf.) Cory, CLY 46020 [TEX]
- § *Cooperia drummondii* Herb., WCH 5091 [BAYLU]
- Cooperia pedunculata* Herb., LP s.n. [BAYLU]

- *§ *Crinum bulbispermum* (Burm.) Milne-Redhead & Schweickherdy, LTs 83 [BAYLU]
- Erythronium albidum* Nutt., WCH 4994 [BAYLU]
- Habranthus tubispathus* (L'Hér.) Traub, WCH 5282 [BAYLU]
- *§ *Hemerocallis fulva* L., JRB s.n. [BAYLU]
- *§ *Ipheion uniflorum* (Lindl.) Raf., MJM 75 [BAYLU]
- *§ *Leucojum aestivum* L., TC 62 [BAYLU]
- * *Muscari racemosum* Guss. ex Ten., ELH s.n. [BAYLU]
- *§ *Narcissus jonquilla* L., D. T s.n. [BAYLU]
- Nothoscordum bivalve* (L.) Britton, LDS 354 [BAYLU, TEX]
- *§ *Ornithogalum umbellatum* L., ELH s.n. [BAYLU]
- *§ *Zephyranthes candida* (Lindl.) Herbert, WCH 13249 [BAYLU]
- Zigadenus nuttallii* (A. Gray) S. Watson, LDS 475 [TEX]

NAJADACEAE

- Najas guadalupensis* (Spreng.) Magnus, JRM 725 [TEX]

ORCHIDACEAE

- Corallorrhiza wisteriana* Conrad, information unavailable [LL]
- § *Spiranthes lacera* (Raf.) Raf., WCH 11186 & FG [BAYLU]
- § *Spiranthes magnicamporum* Sheviak, WCH 11187 & FG [BAYLU]

POACEAE

- Alopecurus carolinianus* Walter, LDS 516 [BAYLU, TEX]
- § *Andropogon gerardii* Vitman, WCH 7899 [BAYLU]
- Aristida oligantha* Michx., WCH 5437 [BAYLU, TEX]
- § *Aristida purpurascens* Poir., LDS 934 [BAYLU]
- Aristida purpurea* Nutt., LDS 52 [TEX]
- Aristida purpurea* Nutt. var. *nealleyi* (Vasey) Allred, LDS 745 [TEX]
- Aristida purpurea* Nutt. var. *wrightii* (Nash) Allred, LDS 549 [BAYLU]
- *†§ *Arundo donax* L., MJM 14 [BAYLU]
- *§ *Avena fatua* L., GRM 16 [BAYLU]
- *§ *Avena sativa* L., YG s.n. [BAYLU]
- § *Bothriochloa barbinodis* (Lag.) Herter, LDS 306 [TEX]
- * *Bothriochloa ischaemum* (L.) Keng, LHS 30555 [TEX]
- Bothriochloa laguroides* (DC.) Herter, LDS 582 [TEX]
- Bothriochloa saccharoides* (Sw.) Rydb., AMG s.n. [BAYLU]
- Bouteloua curtipendula* (Michx.) Torr. var. *curtipendula* LDS 155 [TEX]
- Bouteloua hirsuta* Lag., LDS 945 [TEX]
- Bouteloua rigidiseta* (Steud.) Hitchc., WCH 5035 [BAYLU]
- Brachiaria fasciculata* (Sw.) Parodi, LDS 288 [TEX]
- Brachiaria texana* (Buckl.) S.T. Blake, LDS 331 [TEX]
- *§ *Briza minor* L., WCH 13254 [BAYLU]
- * *Bromus catharticus* Vahl., LDS 713 [TEX]
- * *Bromus japonicus* Thunb. ex Murray, WCH 11280 [BAYLU]
- * *Bromus secalinus* L., LDS 710 [TEX]
- Buchloe dactyloides* (Nutt.) Engelm., WCH 6226 [BAYLU, TEX]

- Cenchrus longispinus* (Hack.) Fernald, LDS 966 [TEX]
- § *Cenchrus spinifex* Cav., LDS 304 [BAYLU, TEX]
- Chasmanthium latifolium* (Michx.) H.O. Yates, LDS 181 [BAYLU, TEX]
- Chloris subdolichostachya* Müll.Hal., LDS 755 [BAYLU]
- Chloris verticillata* Nutt., PSi 26 [TEX]
- Coelorachis cylindrica* (Michx.) Nash, LDS 951 [BAYLU, TEX]
- *§ *Cynodon dactylon* (L.) Pers., AMG s.n. [BAYLU]
- Digitaria ciliaris* (Retz.) Koeler, CLY & LDS 138 [TEX]
- § *Digitaria sanguinalis* (L.) Scop., LDS 820 [BAYLU]
- * *Echinochloa colona* (L.) Link, LDS 794 [TEX]
- * *Echinochloa crus-galli* (L.) P. Beauv., LDS 279 [TEX]
- § *Echinochloa walteri* (Pursh) A. Heller, MPM s.n. [BAYLU]
- * *Eleusine indica* (L.) Gaertn., LDS 289 [TEX]
- Elymus canadensis* L., LDS 743 [TEX]
- Elymus virginicus* L., LDS 685 [BAYLU, TEX]
- * *Eragrostis barrelieri* Daveau, LDS 768 [TEX]
- * *Eragrostis cilianensis* (All.) Vignalo ex Janch., LDS 328 [TEX]
- Eragrostis curtispedicellata* Buckley, LDS 711 [BAYLU, TEX]
- Eragrostis pectinacea* (Michx.) Nees ex Steud., LDS 310 [BAYLU]
- Eragrostis pectinacea* (Michx.) Nees ex Steud. var. *miserrima* (E. Fourn.) Reeder, CLY & LDS 122 [BAYLU]
- Eragrostis secundiflora* J. Presl. subsp. *oxylepis* (Torr.) S.D. Koch, LDS 746 [TEX]
- Eragrostis sessilispica* Buckley, LDS 942 [BAYLU, TEX]
- Eriochloa contracta* Hitchc., LDS 795 [BAYLU, TEX]
- Erioneuron pilosum* (Buckley) Nash, LDS 539 [TEX]
- * *Eustachys retusa* (Lag.) Kunth, LDS 83 [TEX]
- Hordeum pusillum* Nutt., LDS 1111 [BAYLU, TEX]
- Leptochloa mucronata* (Michx.) Kunth, LDS 236 [TEX]
- Limnodea arkansana* (Nutt.) L.H. Dewey, LDS 1114 [BAYLU, TEX]
- * *Lolium perenne* L., LDS 812 [TEX]
- * *Lolium temulentum* L., LDS 1115 [BAYLU, TEX]
- § *Muhlenbergia reverchonii* Vasey & Scribn., WCH 4939 [BAYLU]
- Nassella leucotricha* (Trin. & Rupr.) Barkworth, LDS 531 [BAYLU]
- Panicum acuminatum* Sw., LDS 234 [TEX]
- Panicum acuminatum* Desv. ex Poir. var. *lindheimeri* (Nash) Lelong, WCH 5264 [BAYLU]
- Panicum capillare* L., LDS 383 [BAYLU, TEX]
- Panicum dichotomiflorum* Michx., LDS 827 [BAYLU, TEX]
- Panicum fasciculatum* Sw., LDS 288 [BAYLU]
- Panicum geminatum* Forssk., LDS 924 [BAYLU]
- § *Panicum malacophyllum* Nash, LDS 6 [BAYLU]
- Panicum obtusum* Kunth, LDS 746 [TEX]
- § *Panicum oligosanthos* Schult., WCH 13253 [BAYLU]
- Panicum rigidulum* Bosc ex Nees, LDS 918 [TEX]
- § *Panicum sphaerocarpon* Elliot, WCH 13252 [BAYLU]
- Panicum virgatum* L., WCH 6230 [BAYLU]

- Paspalidium geminatum* (Forssk.) Stapf, VCH 232 [BAYLU]
- * *Paspalum dilatatum* Poir., LDS 302 [TEX]
- Paspalum distichum* L., LDS 960 [TEX]
- Paspalum pubiflorum* Rupr., LDS 977 [TEX]
- Paspalum setaceum* Michx., LDS 858 [TEX]
- * *Paspalum urvillei* Steud., LDS 920 [BAYLU, TEX]
- *§ *Phalaris canariensis* L., LDS 492 [BAYLU]
- Phalaris caroliniana* Walter, JRM 1985 [TEX]
- § *Phragmites australis* (Cav.) Trin. ex Steud., ZEW 31 [BAYLU]
- * *Phyllostachys aurea* Carrière ex Riviére & C. Riviére, WCH 7593 [BAYLU, TEX]
- Piptochaetium avenaceum* (L.) Parodi, PS s.n. [BAYLU]
- * *Poa annua* L., LDS 383 [TEX]
- Poa arachnifera* Torr., WCH 5651 [BAYLU, TEX]
- * *Polypogon monspeliensis* (L.) Desf., LDS 823 [BAYLU, TEX]
- § *Saccharum baldwinii* Spreng., YG s.n. [BAYLU]
- § *Saccharum giganteum* (Walter) Pers., WCH 12535 & JSi & KF [BAYLU]
- Schizachyrium scoparium* (Michx.) Nash var. *scoparium* LDS 207 [BAYLU, TEX]
- * *Secale cereale* L., CC s.n. [BAYLU]
- *§ *Setaria italica* (L.) P. Beauv., LDS 880 [BAYLU]
- *§ *Setaria macrostachya* Kunth, LDS s.n. [BAYLU]
- Setaria parviflora* (Poir.) Kerguelén, LDS 817 [TEX]
- *§ *Setaria pumila* (Poir.) Roem. & Schult., WCH 6560 [BAYLU]
- Setaria reverchonii* (Vasey) Pilg., LDS 498 [BAYLU]
- Setaria scheelei* (Steud.) Hitchc., LDS 204 [TEX]
- * *Setaria viridis* (L.) P. Beauv., LDS 775 [BAYLU, TEX]
- * *Sorghum halepense* (L.) Pers., LDS 789 [TEX]
- Sporobolus compositus* (Poir.) Merr., FWG 10273 [TEX]
- Tridens albescens* (Vasey) Wooton & Standl., LDS 808 [TEX]
- § *Tridens flavus* (L.) Hitchc., WCH 111 [BAYLU]
- § *Tridens muticus* (Torr.) Nash, LDS 1011 [BAYLU]
- Tripsacum dactyloides* (L.) L., LDS 684 [BAYLU, TEX]
- * *Triticum aestivum* L., BEW 80 [BAYLU]
- Urochloa texana* (Buckley) R.D. Webster, LDS 331 [BAYLU]
- Vulpia octoflora* (Walter) Rydb., LDS 433 [BAYLU, TEX]
- Zizaniopsis miliacea* (Michx.) Döll & Asch., LDS 781 [BAYLU, TEX]

PONTEDERIACEAE

- *† *Eichhornia crassipes* (Mar.) Solms, CLY & LDS 136 [BAYLU, TEX]
- § *Heteranthera dubia* (Jacq.) MacMill., EH s.n. [BAYLU]
- Heteranthera limosa* (Sw.) Willd., LDS 630 [BAYLU, TEX]
- § *Pontederia cordata* L., SAC 16 [BAYLU]

POTAMOGETONACEAE

- Potamogeton diversifolius* Raf., LDS 639 [TEX]
- Potamogeton nodosus* Poir., LDS 192 [TEX]

SMILACACEAE

- Smilax bona-nox* L., WCH 5247 [BAYLU, TEX]
- § *Smilax rotundifolia* L., ELH s.n. [BAYLU]
- *§ *Smilax smallii* Morong, WCH 7806 [BAYLU]
- Smilax tamnoides* L., WCH 6437 [BAYLU]

TYPHACEAE

- Typha domingensis* Pers., CLY 46236 [TEX]
- § *Typha latifolia* L., WCH 6210 [BAYLU]

ZANNICHELLIACEAE

- Zannichellia palustris* L., JRM 613 [LL]

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