

THE SPERMATOPHYTES OF TARRANT COUNTY, TEXAS

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THE SPERMATOPHYTES OF TARRANT COUNTY, TEXAS

THESIS

Presented to the Graduate Council of the North
Texas State Teachers College in Partial
Fulfillment of the Requirements

For the Degree of

MASTER OF SCIENCE

by

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Fort Worth, Texas

May, 1943

106460

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CHAPTER I

INTRODUCTION

The Geologic, Climatic and Botanical Interests of Tarrant County, Texas

Tarrant County, which comprises nine hundred and three square miles, is located in Central North Texas. It is in the third tier of counties south of the Oklahoma boundary.

In a biological sense the county lies at the junction of the humid and semiarid divisions of the Lower Austral life zone. Its location not only implies but also exemplifies a great mixture of wild life. Besides this, the county lies at what might be considered the junction of the life zones in a north-south distribution; that is, it contains life forms which belong both to the subtropical area and to the warmer temperate zones. There is probably no other region in the state which shows such a variety of wild life, especially of plant life, exhibiting a blending of semiarid with humid forms and temperate with subtropic forms.¹

In Tarrant County examples of blending of plant species typical to specific areas are numerous. In the dicotyledonous genus Aster, Drummondii Lindl. is a Prairie-Texan species; ericoides L. is an Eastern Temperate-Submountain species; exilis Ell. and tenuicaulis (Mohr.) Burgess are Austral species; lateriflorus (L.) Britton and patens Ait. are

¹W. M. Winton and W. S. Adkins, The Geology of Tarrant County, p. 7-8.

Eastern Temperate species; oblongifolius Nutt. var rigidulus A. Gray is a Prairie-Plains species and prasaltus Poir is an Eastern Temperate-Mountain species. In the monocotyledonous genus Cyperus, acuminatus Torr. & Hook. is a Western Temperate-Prairie-Plains species; erythro-rhizos Muhl. and strigosus L. are Temperate-Plains species; filiculmis Vahl and rotundus L. are Eastern Temperate-Tropical species; flavescens L. and ovularis (Michx.) Torr. are Eastern Temperate species and Hallii Britton is a Texan species.

Tarrant County has been well explored botanically but it is believed that additional species of plants of uncommon occurrence will be collected and determined taxonomically at a future date.

While a student at Texas Christian University in Fort Worth, the author first became interested in the Flora of Tarrant County in 1928. Scientific collections, however, were not undertaken until 1934. In that year, the writer was a student at North Texas Agricultural College at Arlington and commenced a collection at the suggestion and under the guidance of O. L. Killian and W. L. Hughes of the faculty of that institution.

The Problem

The problem consisted of thoroughly exploring Tarrant County, Texas, in an attempt to collect and study critically as many species of Spermatophytes as possible. In addition a thorough examination was made of herbarium specimens assembled from the region by other botanists. This study included specimens in the herbaria of North Texas State Teachers College, Denton, North Texas Agricultural College, Arlington, University

of Texas, Austin, and the Albert Ruth Herbarium, Fort Worth, Texas.

In order to determine the plants of Tarrant County taxonomically, several manuals had to be used. This was due to the fact that no one of these contains all the Spermatophytes present in the region. Unfortunately, the various Floras employ different systems of nomenclature. Some authors are very conservative and "lump" species, while others are rather liberal and "split" species. These circumstances have been very confusing and have added difficulty to the problem. Upon beginning this study the system of John K. Small was used since his Manual of the Flora of the Southeastern United States covers the area more thoroughly than any of the others. His system is an elaborated modification of the American System of Nomenclature. However, upon having specimens verified, it was found that the majority of the larger herbaria use the International System of Nomenclature. When the Catalogue of the Flora of Texas was published in 1937 by Cory and Parks, the International System of Nomenclature was adopted exclusively for this investigation.

Some collectors of Tarrant County plants attempted to follow rigidly one particular authority and in so doing reported some plants that do not actually occur. Since the system used in this paper is the more conservative one, a few of the reported species have been included within the "lumped" ones, or eliminated from the list of specimens known to occur.

Other Botanical Explorers of the Region

A number of botanists have collected plants in Tarrant County. Lester Frank Ward (1877), J. E. Bodin (1891), Samuel Mills Tracy (1902),

Albert S. Hitchcock and E. J. Palmer collected in Tarrant County while doing field work in Texas. Julian Reverchon, James B. McBryde, and B. B. Harris, who collected extensively in adjacent counties, made collections in Tarrant County. O. L. Killian collected in Tarrant County from 1926 to 1928.

Albert Ruth began botanical studies in Tarrant County in 1902 and continued until 1931, a year before his death. His work was thorough and his specimens were distributed to the larger herbaria in this country.

There has been a number of additional collectors in Tarrant County who did not prepare their materials for deposit in herbaria. Several of these individuals are Lillian Halbert Gantt, Hortense Winton and Mary Daggett Lake all of whom inspired and encouraged the author to undertake a serious study of Botanical Taxonomy.

CHAPTER II

THE PHYSICAL AND BIOLOGICAL FACTORS INFLUENCING THE VEGETATION OF TARRANT COUNTY, TEXAS

Geology and Topography

The entire county is covered by rocks belonging to a single geological age--the Cretaceous, about equally divided between lower Cretaceous, or more properly Comanchean, and Upper Cretaceous.¹

The area included within Tarrant County consists of four broad belts, two prairie strips alternating with two sandy strips or "cross timber" zones. These are as follows, from east to west: the Black Prairie, the Eastern Cross Timbers, the Grand Prairie, and the Western Cross Timbers.²

Eleven major geological formations or groups of formations are mapped for Tarrant County. The Western Cross Timbers is in the Paluxy and Walnut Formations. The Grand Prairie includes the Goodland-Comanche-Peak-Edwards, Duck Creek, Fort Worth, Denton-Weno-Paw Paw, Mainstreet and Grayson formations. The East Cross Timbers occupies the Woodbine Sand Formation. The Black Prairie is in the Eagleford Formation. The Pleistocene occupies the lowlands of the Trinity River and its two main branches, West Fork and Clear Fork. The Eagleford lies within the Upper Cretaceous System. The remainder of the formations are included in the Lower Cretaceous System.

¹W. M. Winton and W. S. Adkins, The Geology of Tarrant County, p. 8.

²Ibid., p. 9.

The Soils

The thirty-one types of soil mapped in Tarrant County are classed in 24 series. The Crawford, Durant, Denton, San Saba and Wilson series occur in the Fort Worth prairie, while the Houston and Ellis series occur in the Black Prairie section. The Nimrod and Windthorst series include upland soils of the West Cross Timbers. The Kirvin, Tabor, Lufkin, and Norfolk series are upland soils of the East Cross Timbers. The terrace soils include the Lewisville, Bell, Irving, Simmons, Leaf, Kalmia, and Amite series. The Lewisville and Bell soils are calcareous. The bottom soils include the Frio, Trinity, Catalpa, and Ochlockonee series. The Denton clay is the most extensive type, occupying 34.9 per cent of the county, Kirvin fine sandy loam occupies 14.4 per cent of the county, San Saba clay 7.2 per cent, Tabor fine sandy loam 6.5 per cent, Frio clay 5.7 per cent, and Houston black clay 5.0 per cent.³

The thirty-one soil types known to occur in Tarrant County are: Amite fine sandy loam, Bell clay, Catalpa clay, Crawford clay, Denton clay, Durant clay loam, Durant fine sandy loam, Ellis clay, Frio clay, Frio fine sandy loam, Frio loam, Houston black clay, Houston clay, Irving clay, Kalmia fine sand, Kalmia fine sandy loam, Kirvin fine sandy loam, Leaf clay loam, Leaf fine sandy loam, Lewisville clay, Lufkin fine sandy loam, Nimrod fine sand, Norfolk fine sand, Ochlockonee fine sandy loam, San Saba clay, Simmons clay, Tabor fine sandy loam,

F. S. Fraps, The Chemical Composition of Soils of Cameron, Coleman, Dallas, Erath, Harris, Reeves, Rockwall and Tarrant Counties, p. 72.

Trinity clay, Wilson clay, Wilson clay loam and Windthorst fine sandy loam.

The Black Prairie soils average the highest in plant food. The alluvial, or first-bottom soils, come next, after which are those of the Fort Worth Prairie. The soils of the East Cross Timbers and of the West Cross Timbers are low in nitrogen, active phosphoric acid, and also in potash, although better supplied with potash than with the nitrogen of phosphoric acid. None of the soils or subsoils are acid. They are usually well supplied with lime and some are high in lime.⁴

The Habitats

A large variety of habitats are found in Tarrant County. In addition to the soils of the geological belts and river bottoms, the moisture factor determines to a great extent just what type of plants can thrive in a given habitat. In the prairie soils moisture is held longer than in the sandy areas, but the soil particles are so fine, that, unless the moisture is precipitated slowly, most of it is lost through run off. Sandy soils lose their moisture more quickly by percolation than clay soils, but have the capacity for collecting water that is precipitated more rapidly.

The habitats of Tarrant County plants can be grouped into seven main divisions. These divisions are: general areas, prairie areas, sandy areas, wooded areas, waste areas and regions close to cultivated grounds, semiaquatic areas and aquatic areas.

⁴Ibid., p. 78.

Under the classification of general areas, such habitats as poor soil, alluvium, rocky banks, dry ground, rich open soil, limestone barrens, hillsides and gravel pits are found. In the prairie areas, plants are found growing in such habitats as dry prairies, limestone hills, pastures, rough stony ground, meadows, calcareous prairies and by roadsides. In sandy areas, plants may be found growing in sandy fields, in damp sandy soil, in dry gravelly soil, in sandy soil, in sandy pasture and in sandy meadow. In the wooded areas, plants are found growing in such habitats as open post oak woods, open deciduous woods, border of woods, rich woods, and thickets. In waste areas and regions close to cultivated grounds, plants are found growing in waste places, in cultivated ground, by roadside, in old fields, on lawns, in meadows, in recent clearings, in pastures, along railroad tracks, on vacant lots, and escaped from cultivation. Semiaquatic plants are found in such habitats as damp grounds, moist banks, low woods, boggy meadows, wet places, muddy shores, river banks, sandy shores, banks of streams, and moist meadows. In aquatic areas, plants are found growing in swamps, in ponds, in slow streams, in fresh water marshes, and floating on quiet water. Aquatic plants may be floating, partially submerged or wholly submerged.

Soil Erosion

Tarrant County is in a region where the topography is from gently to strongly rolling, with some steep slopes and hilly areas. There is considerable erosion, largely by gulleying.

Elevation

The highest point in the county is in the western part, where an elevation of 1050 feet above sea level is reached. The lowest point is where the Trinity River passes out of the county to the east. This latter point has an elevation of 450 feet, giving the entire county a maximum relief of 600 feet. In general this is represented by a gradual slope to the east, broken by the westward facing escarpments.⁵

Differences in elevation are closely related to differences in growing season and type of vegetation, but, of course, a gradual difference of only five hundred feet, in Tarrant County, would not produce very outstanding differences in either the growing season or in the type of vegetation.

Abrupt changes in vegetation, in the absence of abrupt changes in altitude, appear certainly to be due to effective soil factor differences rather than to climate.⁶

Precipitation

The average annual precipitation for Tarrant County, mostly in the form of rain, varies from thirty to thirty-five inches. There is a slight variation in the amount of precipitation throughout the county. This is heaviest in the east and decreases toward the western portion. At Fort Worth, which is located near the geographic center of Tarrant County, the average precipitation from 1896 through 1940, a period of

⁵Op. cit., p. 9.

⁶J. B. McBryde, "The Vegetation and Habitat Factors of the Carrizo Sands," Ecological Monographs, III, (1933), 294.

45 years, was 33.13 inches. The minimum yearly average during this 45-year period was in 1921, when the precipitation was only 17.91 inches. In 1941, the maximum rainfall for the 45-year period was 46.64 inches. The average snowfall at Fort Worth for a period of 42 years was 2.6 inches. However, there are a number of years during this period when no snow fell. The greatest amount of precipitation to fall as snow in Fort Worth, during the 42-year period, was 8.2 inches in 1917.

Climate

In general the climate is characterized by mild winters and long hot summers.⁷ The average length of growing season is determined by the number of days between the last killing frost in the spring and the first killing frost in the fall. The average length of the growing season in Tarrant County is two hundred and fifty four days. Over a 43-year period, the minimum growing season was from April the third to November the second in 1936, a period of two hundred and twelve days. The maximum growing season for a 42-year period was in 1930, when there was a period of two hundred and eighty-eight days, from March the third to December the twenty-seventh, without killing frosts. The average date of the last killing frost in the spring in Tarrant County is the tenth of March. The average date of the first killing frost in the fall is the twentieth of November. As far as can be ascertained, there is ample time for the plants that grow in Tarrant County to complete their life cycle during the growing season.

⁷Economic Survey of Texas, p. 56.

CHAPTER III

THE SPERMATOPHYTES OF TARRANT COUNTY, TEXAS

Field Work

Specimens were collected and placed in a vasculum or other air tight container in which had been placed some moistened newspapers. These were brought into the laboratory and placed between one thickness of folded newspapers. Each folded newspaper containing specimens was placed between two blotters. A dryer, a piece of corrugated cardboard, was inserted between the blotters and then all put in a plant press. The blotters and dryers were replaced with dry ones each day, for several days to a week, until the plants were dried thoroughly.

A collection number was given to each plant species, either at the time it was placed in the plant press, or after it was pressed and dried. These numbers start with "1" and proceed in numerical order throughout the life of the collector. Each specimen, or group of specimens of the same genus and species, collected on the same date in the same locality and habitat was given one number.

Herbarium Work

In most instances fresh specimens were critically studied and determined while the rest of the material was in the process of being pressed and dried. If this were not done, the dried plants were studied, classified and compared with other herbarium material.

Since herbarium specimens are subject to attack by museum pests which feed on dried plant material, it was necessary to protect these by "poisoning." This was accomplished by submerging each one in a supersaturated solution of bichloride of mercury in alcohol. The specimens were placed back in the press and dried again. On a number of occasions the protective solution was applied before the specimens were completely pressed and dried.

The dried plants were then mounted by affixing them to herbarium sheets with glue or adhesive strips of transparent paper. A herbarium label, showing the collector's number, the scientific name of the plant, the habitat, the locality, the county and state, the name of the collector and the date was fastened to the sheet in the lower right hand corner.

The herbarium sheets were placed in folders with other specimens of the same genus for permanent storage in air-tight containers.

Duplicate specimens were left in their newspaper folder and herbarium labels were prepared for these. This material was temporarily stored until a sufficient number of specimens were on hand. They were then donated to curators of various herbaria and to specialists on certain plant groups, who, in appreciation of these gifts, either named or verified the plants.

Identifications and Verifications

During this study, nearly a thousand plants from Central North Texas were sent to experts for examination. Several hundred specimens of Tarrant County plants were included. A number of the latter not

actually verified were carefully compared with and determined according to verified specimens collected in adjacent counties.

Specimens from Tarrant County have either been identified or verified by the following: C. V. Morton, Wm. R. Maxon, A. S. Hitchcock and Agnes Chase, U. S. National Herbarium; H. K. Svenson, Brooklyn Botanic Garden; H. A. Gleason and E. J. Alexander, New York Botanical Garden; J. A. Steyermark and P. C. Standley, Herbarium of the Field Museum of Natural History; Edgar Anderson, Standley Hagen and J. M. Greenman, Missouri Botanic Garden; E. T. Wherry, University of Pennsylvania Herbarium; Mary V. de Paul, Marygrove College Herbarium, Detroit, Michigan; V. L. Cory, Tracy Herbarium, College Station, Texas; B. C. Tharp, University of Texas Herbarium; F. W. Pennell, Herbarium of the Philadelphia Academy of Sciences; Hugh O'Neill, Langlois Herbarium, Catholic University of America and Carl Epling, University of California Herbarium at Los Angeles.

List of Specimens Found in Tarrant County, Texas*

1. TYPHACEAE (Cat-tail)

TYPHA

angustifolia L.	Narrow-leaf Cat-tail
latifolia L.	Common Cat-tail

2. NAJADACEAE (Pondweed)

POTAMOGETON

nodosus Poiret	American Pondweed
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*This listing is made in accordance with the method used in listing by scientific journals and scientific reports.

3. ALISMACEAE (Water-plantain)

ALISMA

subcordatum Raf. Water-plantain

ECHINODORUS

cordifolius (L.) Griseb Bur-head

SAGITTARIA

graminea Michx. Arrowhead

platyphylla (Engelm.) J. G. Smith Arrowhead

4. GRAMINEAE (Grass)

AGROSTIS

verticillata Hill Water Bent-grass

ANDROPOGON

glomeratus (Walt.) BSP. Bushy Beard-grass

provincialis Lam. Big Bluestem

provincialis Lam. var. *chrysocomus* (Nash) Fern. & Griseb.
Yellow-haired Beard-grass

saccharoides Sw. Silver Beard-grass

scoparius Michx. var. *divergens* Hack. Little Bluestem

ternarius Michx. Beard-grass

virginicus L. Broom-sedge

ARISTIDA

dichotoma Michx. Poverty-grass

Fendleriana Steud. Fendler's Three Awn

longiseta Steud. Red Three Awn

oligantha Michx. Prairie Three Awn

ARISTIDA

<i>purpurascens</i> Poir var. <i>minor</i> Vasey	Arrow-feather
<i>purpurea</i> Nutt.	Purple Three Awu

BOUPELOUA

<i>curtipendula</i> (Michx.) Torr.	Side-oats Grama
<i>hirsuta</i> Lag.	Hairy Grama
<i>rigidiseta</i> (Steud.) Hitchc.	Texas Grama

BROMUS

<i>cartharticus</i> Vahl.	Resque-grass
<i>japonicus</i> Thumb.	Japanese Chess
<i>mollis</i> L.	Soft Chess
<i>secalinus</i> L.	Chess

BUCHLOE

<i>dactyloides</i> (Nutt.) Engelm.	Buffalo-grass
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CENCHRUS

<i>pauciflorus</i> Benth.	Sandbur
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CHLORIS

<i>latisquamea</i> Nash	
<i>verticillata</i> Nutt.	Windmill-grass

CYNODON

<i>dactylon</i> (L.) Pers.	Bermuda-grass
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DIGITARIA

<i>sanguinalis</i> (L.) Scop.	Crab-grass
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ECHINOCHLOA

<i>colomum</i> (L.) Link	Jungle Rice
<i>Crus-galli</i> (L.) Beauv.	Barnyard-grass

ELEUSINE

indica (L.) Gaertn.

Goose-grass

ELYMUS

canadensis L.

Wild Rye

virginicus L.

Virginia Wild Rye

ERAGROSTIS

Beyrichii J. G. Smith

Love-grass

chilianensis (All.) Link

Stink-grass

curtipedicellata Buckl.

Love-grass

diffusa Buckl.

Love-grass

hypnoides (Lam.) B.S.P.

Love-grass

pectinacea (Michx.) Nees.

Pursh Love-grass

pilosa (L.) Beauv.

India Love-grass

repans (Michx.) Nees

Creeping Love-grass

secundiflora Presl.

Clustered Love-grass

sessilispica Buckl.

Love-grass

trichodes (Nutt.) Nash

Love-grass

ERICHLOA

contracta Hitchc.

Prairie Cup-grass

gracilis (Fourn.) Hitchc.*sericea* (Scheele) Munro

FESTUCA

octoflora Walt.

Six Weeks Fesque

HORDEUM

jubatum L.

Foxtail Barley

pusillum Nutt.

Little Barley

LEPTOCHLOA

<i>filiformis</i> (Lam.) Beauv.	Slender-grass
<i>panicoides</i> (Presl.) Hitchc.	Sprangle-top

LIMNODEA

<i>arkansana</i> (Nutt.) L. H. Dewey	
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LOLIUM

<i>perenne</i> L.	Rye-grass
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MANISURUS

<i>cylindrica</i> (Michx.) Kuntze	Pitted Joint-grass
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MUHLENBERGIA

<i>capillaris</i> (Lam.) Trin.	
<i>sylvatica</i> Torr.	

MUNROA

<i>squarrosa</i> (Nutt.) Torr.	False Buffalo-grass
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PANICUM

<i>anceps</i> Michx.	Flat-stemmed Panic-grass
<i>capillare</i> L.	Witchgrass
<i>dichotomiflorum</i> Michx.	Fall Panic-grass
<i>fasciculatum</i> Sw.	Brown Top Millet
<i>Hallii</i> Vasey	Panic-grass
<i>lanuginosum</i> Ell. var. <i>Lindheimeri</i> (Nash) Fern.	
	Panic-grass
<i>longifolium</i> Torr.	Panic-grass
<i>malacophyllum</i> Nash	Panic-grass
<i>obtusum</i> H. B. K.	Wire-grass
<i>oligosanthes</i> Shult. var. <i>Helleri</i> (Nash) Fern.	

PANICUM

<i>oligosanthes</i> Shult. var. <i>Scribnerianum</i> (Nash) Fern.	
<i>sphaerocarpon</i> Ell.	Panic-grass
<i>texanum</i> Buckl.	Texas Millet
<i>villosissimum</i> Nash	Hairy Panic-grass
<i>virgatum</i> L.	Switch-grass

PASPALUM

<i>ciliatifolium</i> Michx.	
<i>dilatatum</i> Poir	
<i>distichum</i> L.	Knot-grass
<i>floridanum</i> Michx.	
<i>floridanum</i> Michx. var. <i>glabratum</i> Engelm.	
	Large Joint-grass
<i>pubescens</i> Muhl.	
<i>pubiflorum</i> Rupr.	
<i>pubiflorum</i> Rupr. var. <i>glabrum</i> Vasey	
<i>stramineum</i> Nash	

PHALARIS

<i>caroliniana</i> Walt.	Canary-grass
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POA

<i>annua</i> L.	Annual Blue-grass
<i>arachnifera</i> Torr.	Texas Blue-grass
<i>Chapmaniana</i> Scribn.	Chapman Blue-grass

POLYPOGON

<i>monspeliensis</i> (L.) Dwsf.	Rabbit-foot Grass
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SCHEDONNARDUS

paniculatus (Nutt.) Trel. Tumble-grass

SETARIA

geniculata (Lam.) Beauv. Bristle-grass

italica (L.) Beauv. Foxtail Millet

viridis (L.) Beauv. Green Bristle-grass

SORGHASTRUM

nutans (L.) Nash Indian-grass

SORGHUM

halapense (L.) Pers. Johnson-grass

SPHENOPOHOLIS

obtusata Michx.) Scribn. Prairie Wedge-grass

SPOROBOLUS

asper (Michx.) Kunth. Long-leaf Bunch-grass

cyptandrus (Torr.) A. Gray Sand Drop-seed

vaginiflorus (Torr.) Wood Southern Poverty-grass

STIPA

leucotricha Trin. & Rupr. Texas Needlegrass

TRIODIA

albescens Vasey White Triodia

congesta (L. H. Dewey) Bush Triodia

elongata (Buckl.) Scribn. Rough Triodia

flava (L.) Smyth. Purple-top

pilosa (Buckl.) Merr. Hairy Triodia

TRIPALIS

purpurea (Walt.) Chapm. Sand-grass

TRIPSACUM

dactyloides (L.) Eastern Gama-grass

UNIOLA

latifolia Michx. Wild Oats

5. CYPERACEAE (Sedge)

CAREX

austrina (Small) Mackenzie	Southern Sedge
blanda Dewey	Woodland Sedge
Brittoniana Bailey	Britton Sedge
bulbostylis Mackenzie	Sedge
cherokeensis Schwein	Cherokee Sedge
Emoryi Dewey	Emory Sedge
grisea Walt.	Gray Sedge
microdonata Torr. & Hook	Sedge
Muhlenbergia Schk.	Muhlenberg Sedge
onusta Mackenzie	Sedge
planostachys Kunze	Sedge
retroflexa Muhl.	Reflexed Sedge
straminea Willd. var. festucacea Tuckerm.	Sedge

CYPERUS

acuminatus Torr. & Hook	Sharp-pointed Cyperus
erythrorhizos Muhl.	Red-rooted Cyperus
esculentus L.	Rush-nut
filiculmis Vahl.	Slender Cyperus

CYPERUS

<i>flavescens</i> L.	Yellow Cyperus
<i>Hallii</i> Britton	Hall Cyperus
<i>ovularis</i> (Michx.) Torr.	Sweet Rush
<i>odoratus</i> L.	
<i>pseudovegetus</i> Steud.	Marsh Cyperus
<i>reflexus</i> Vahl.	
<i>rotundus</i> L.	Southern Nut-grass
<i>strigosus</i> L.	Straw-colored Rush
<i>uniflorus</i> T. & H.	

ELEOCHARIS

<i>arenicola</i> Torr.	Spike Rush
<i>caribaea</i> (Rottb.) Blake	Poverty Grass
<i>geniculatus</i> (L.) R. & S.	Spike Rush
<i>montevidensis</i> Kunth.	Spike Rush

FIMBRISTYLIS

<i>autumnalis</i> (L.) R. & S.	
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FUIRENA

<i>hispida</i> Ell.	Umbrella-grass
<i>simplex</i> Vahl.	Western Umbrella-grass
<i>squarrosa</i> Michx.	Umbrella-grass

HEMICARPA

<i>micrantha</i> (Vahl.) Pax	
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KYLLINGA

<i>pumila</i> Michx.	Low Kyllinga
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SCIRPUS

validus Vahl. Bull Rush

STENOPHYLLUS

capillaris (L.) Britton

6. ARACEAE (Arum)

ACORUS

Calamus L. Calamus Root

ARISAEMA

Dracontium (L.) Schott Green Dragon

7. LEMNACEAE (Duckweed)

LEMNA

minor L. Duckweed

trinerva (Austin) Small Duckweed

trisulca L. Star Duckweed

8. COMMELINACEAE (Spiderwort)

COMMELINA

crispa Wootton Curly-leaf Dayflower

erecta L. Virginia Dayflower

TRADESCANTIA

canaliculata Raf. Spiderwort

occidentalis Britton Western Spiderwort

Tharpii Anderson & Woodson Tharp Spiderwort

9. PONTEDERIACEAE (Pondweed)

HETERANTHERA

limosa (Sw.) Willd. Mud Plantain

10. JUNCACEAE (Rush)

JUNCUS

effusus L. var. *solutus* Fern. & Wiegand Bog Rush

diffusissimus Buckl. Diffuse Rush

marginatus Rostk. var. *biflorus* (Ell.) Engelm.

Grass-leaved Rush

marginatus Rostk. var. *setosus* Coville Grass-leaved Rush

polycephalus Michx. Many-headed Rush

scirpoides Lam. Scirpus-like Rush

subcaudatus (Engelm.) Coville & Blake

tenuis Willd. Slender Rush

texanus (Engelm.) Coville Texas Rush

Torreyi Coville Torrey Rush

11. LILIACEAE (Lily)

ALLIUM

canadense L. Meadow Garlic

Drummondii Regel White Onion

mutabile Michx. Wild Onion

ASPARAGUS

officinalis L. Asparagus

BRODIAEA

coerulea (Scheele) Macbride Wild Hyacinth

CAMASSIA

scilloides (Raf.) Cory Meadow Hyacinth

ERYTHRONIUM

albidum Nutt. var. *coloratum* Sterns. Dogtooth Violet

NOTHOSCORDIUM

bivalve (L.) Britton Crow Poison

SMILAX

Bona-nox L. Stretchberry

hispida Muhl. Stretchberry

rotundifolia L. Stretchberry

YUCCA

arkansana Trel. Bear Grass

louisianensis Trel. Early Yucca

ZYGADENUS

Nuttallii A. Gray Death Camass

12. AMARYLLIDACEAE (Amaryllis)

COOPERIA

Drummondii Herb. Rain Lily

HYPOXIS

hirsuta (L.) Coville Star Grass

13. IRIDACEAE (Iris)

NEMASTYLIS

acuta (Bart.) Herb. Celestial

SISTRINCHIUM

amoenum Bicknell Blue-eyed Grass

SISYRINCHIUM

<i>ensigerum</i> Bicknell	Blue-eyed Grass
<i>minus</i> Engelm. & Gray	Blue-eyed Grass
<i>prunosum</i> Bicknell	Blue-eyed Grass

14. ORCHIDACEAE (Orchids)

HEXALECTRIS

<i>spicata</i> (Walt.) Bernh.	Crested Coral-root
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SPIRANTHES

<i>gracilis</i> (Bigel.) Beck	Slender Ladies-tresses
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15. SALICACEAE (Willow)

POPULUS

<i>deltoides</i> Marsh. var. <i>virginiana</i> (Foug.) Sudw.	Cottonwood
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SALIX

<i>nigra</i> Marsh.	Black Willow
<i>nigra</i> Marsh. var. <i>Lindheimeri</i> Schn.	Lindheimer Black Willow

16. JUGLANDACEAE (Walnut)

CARYA

<i>Buckleyi</i> Durand var. <i>arkansana</i> Sarg.	Hickory
<i>glabra</i> (Mill.) Spach.	Hickory
<i>ovata</i> (Mill.) K. Koch.	Shagbark Hickory
Pecan (Marsh.) Engl. & Graebn.	Pecan

JUGLANS

<i>major</i> Heller	Black Walnut
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JUGLANS

nigra L. Black Walnut

17. FAGACEAE (Beech)

QUERCUS

Durandii Buckl. Durand White Oak
macrocarpa Michx. Bur Oak
marylandica Muench. Black Jack
nigra L. Water Oak
primus L. Chestnut Oak
rubra L. Red Oak
Shumardii Buckl. var. *Schneckii* (Britton) Sarg.
 Red Oak
stellata Wang. Post Oak
texana Buckl. Spanish Oak
virginiana Miller Live Oak

18. ULMACEAE (Elm)

CELTIS

laevigata Willd. Eastern Hackberry
laevigata Willd. var. *texana* Sarg. Texas Hackberry
occidentalis L. var. *crassifolia* (Lam.) A. Gray
 Western Hackberry

ULMUS

alata Michx. Winged Elm
americana L. American Elm

ULMUS

<i>crassifolia</i> Nutt.	Cedar Elm
<i>fulva</i> Michx.	Slippery Elm

19. MORACEAE (Mulberry)

MACLURA

<i>pomifera</i> (Raf.) Schneider	Bois d'arc
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MORUS

<i>alba</i> L.	Russian Mulberry
<i>rubra</i> L.	Red Mulberry

20. URTICACEAE (Nettle)

PARIETARIA

<i>obtusa</i> Rydb.	Hammerwort
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URTICA

<i>chamaedryoides</i> Pursh.	Low Spring Nettle
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21. LORANTHACEAE (Mistletoe)

PHORADENDRON

<i>flavescens</i> (Pursh.) Nutt.	Mistletoe
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22. ARISTOLOCHIACEAE (Birthwort)

ARISTOLOCHIA

<i>tomentosa</i> Sims	Woolly Pipe-vine
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23. POLYGONACEAE (Buckwheat)

ERIOGONUM

<i>annuum</i> Nutt.	Annual Buckwheat
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ERIOGONUM

longifolium Nutt.	Long-leaf Buckwheat
multiflorum Benth.	Many-flowered Buckwheat

POLYGONUM

aviculare L.	Knot-grass
convolvulus L.	Corn Bindweed
incarnatum Ell.	Smartweed
lapathifolium L.	Pale Smartweed
persicaria L.	Pinkweed
pennsylvanicum L.	Pinkweed
punctatum Ell.	Water Smartweed
ramosissimum Michx.	Bush Knotweed
setaceum Baldw.	Bristly Smartweed

RUMEX

altissimus Wood.	Peachleaf Dock
Berlandieri Meisn.	Berlandier Dock
crispus L.	Curly-leaf Dock
hastatus Baldw.	Engelmann Dock
mexicanus Meisn.	Mexican Dock
verticillatus L.	Swamp Dock

24. CHENOPODIACEAE (Goosefoot)

CHENOPODIUM

album L.	Lambs-quarters
ambrosiodes L.	Wormseed
botrys L.	Jerusalem Oak

CHENOPODIUM

<i>gigantospermum</i> Aellen	Maple-leaf Goosefoot
<i>leptophyllum</i> Nutt.	Narrow-leaf Goosefoot
<i>Standleyanum</i> Aellen	Standley Goosefoot

CYCLOLOMA

<i>atriplicifolium</i> (Spreng.) Coulter	Plains Tumbleweed
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MONOLEPIS

<i>Nuttalliana</i> (Schultes) Greene	Poverty Weed
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SALSOLA

<i>Kali</i> L. var. <i>tenuifolia</i> Meyer	Russian Thistle
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25. AMARANTHACEAE (Amaranth)

ACNIDA

<i>tamariscina</i> (Nutt.) Wood	Water-hemp
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ALTERNANTHERA

<i>repens</i> (L.) Kuntze	Chaff Flower
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AMARANTHUS

<i>blitoides</i> S. Wats.	Prostrate Pigweed
<i>gracizans</i> L.	Tumbleweed
<i>hybridus</i> L.	Spleen Pigweed
<i>Palmeri</i> S. Wats.	Palmer Pigweed
<i>retroflexus</i> L.	Careless Weed
<i>spinosus</i> L.	Spiny Pigweed

PROELICHTIA

<i>Braunii</i> Small	Snake Cotton
<i>campestris</i> Small	Slender Snake Cotton

PROELICHA

<i>Drummondii</i> Moq.	Field Snake Cotton
<i>gracilis</i> (Hook.) Moq.	Slender Snake Cotton

GOSSYPIANTHUS

lanuginosus (Poir) Moq.

IRESINE

<i>Celosia</i> L.	Blood leaf
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FIDESTROMIA

lanuginosa (Nutt.) Standl.

26. PHYTOLACCACEAE (Pokeweed)

PHYTOLACCA

<i>americana</i> L.	Pokeweed
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RIVINA

<i>humilis</i> L.	Pigeon Berry
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27. NYCTAGINACEAE (Four O'Clock)

BOERHAAVIA

<i>caribaea</i> Jacq.	Wine Flower
<i>decumbens</i> Vail	Wine Flower
<i>erecta</i> L.	Erect Wine Flower

MIRABILIS

<i>albida</i> (Walt.) Heimerl.	Pale Umbrella-wort
<i>bracteata</i> (Rydb.) comb. nov.	Bracted Umbrella-wort
<i>gigantea</i> (Standl.) comb. nov.	Giant Four O'Clock
<i>lanceolata</i> (Rydb.) comb. nov.	Umbrella-wort
<i>linearis</i> (Pursh) Heimerl.	Narrow-leaved Four O'Clock

MIRABILIS

nyctaginea (Michx.) MacMill. Heart-leaf Umbrella-wort

28. ILLEGEBRACEAE (Knotwort)

PARONCHIA

scoparia Small Whitlow-wort

Jamesii T. & G. James Whitlow-wort

29. AIZOACEAE (Carpetweed)

MOLLUGO

verticillata L. Indian Chickweed

30. CARYOPHYLLACEAE (Pink)

ARENARIA

Nuttallii Pax

CERASTIUM

brachypodium (Engelm.) Robinson Mouse-ear Chickweed

viscosum L. Mouse-ear Chickweed

SAGINA

decumbens (Ell.) T. & G. Pearlwort

SAPONARIA

vaccaria L. Dairy Pink

SILENE

antirrhina L. Sleepy Catchfly

STELLARIA

media L. Chickweed

31. PORTULACACEAE (Purslane)

CLAYTONIA

Small Sweet

Spring Beauty

PORTULACA

oleracea L.

Pulsey

pilosa L.

Wild Rose Moss

TALINUM

parviflorum Nutt.

Dwarf Flame Flower

32. NYMPHACEAE (Water-lily)

NELUMBO

lutea (Willd.) Pers.

Yonquepin

33. RANUNCULACEAE (Crowfoot)

ANEMONE

caroliniana Walt.

Wind Flower

decapetala Ard.

Wind Flower

CLEMATIS

reticulata Walt.

Purple Leather Flower

DELPHINIUM

virescens Nutt.

White Larkspur

THALICTRUM

texanum (A. Gray) Small

Meadow Rue

34. MENISPERMACEAE (Moonseed)

COCCULUS

carolinus (L.) DC

Coral Berry

35. PAPAVERACEAE (Poppy)

ARGEMON

<i>alba</i> Lestib.	White Poppy
<i>platyceras</i> Link & Otto	White Poppy

36. FUMARIACEAE (Fumitory)

CORYDALIS

<i>aurea</i> Willd.	Scrambled Eggs
<i>micrantha</i> (Engelm.) A. Gray	Slender Fumewort

FUMARIA

<i>officinalis</i> L.	Smoke Plant
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27. CRUCIFERAE (Mustard)

ARABIS

<i>virginica</i> (L.) Poir	Rock Cress
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BRASSICA

<i>arvensis</i> (L.) Kuntze	Charlock
<i>campestris</i> L.	Wild Mustard
<i>juncea</i> (L.) Cosson	Indian Mustard

CAMELINA

<i>sativa</i> (L.) Crantz.	False Flax
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CAPSELLA

<i>Bursa-pastoris</i> (L.) Medic.	Shepherd's Purse
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CARDAMINE

<i>pennsylvanica</i> Muhl.	Bitter Cress
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CONRINGIA

<i>orientalis</i> (L.) Dumort	Hare's-ear Mustard
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DESCURAINIA

pinnata (Walt.) Britton

Tansy Mustard

DRABA

brachycarpa Nutt.

Short-fruit Whitlow-grass

cuneifolia Nutt.

Wedge-leaf Whitlow-grass

platycarpa T. & G.

Flat-fruit Whitlow-grass

reptans (Lam.) Fern.

Carolina Whitlow-grass

LEPIDIDIUM

austrinum Small

Southern Peppergrass

virginicum L.

Virginia Peppergrass

LESQUERELLA

gracilis (Hook.) S. Wats.

Bladder Pod

RORIPPA

Nasturtium-aquaticum (L.) Schinz & Thell.

Watercress

sessiliflora (Nutt.) A. S. Hitch.

SISYMBRIUM

altissimum L.

Tall Mustard

officinale (L.) Scop.

Tansy Mustard

38. CAPPARIDACEAE (Caper)

CRISTATELLA

Jamesii T. & G.

POLANISIA

uniglandulosa (Cav.) D.C.

Clammy Weed

39. CRASSULACEAE (Orpine)

SEDUM

Huttallianum Raf. Stone Crop

40. PLATANACEAE (Plane-tree)

PLATANUS

Occidentalis L. Sycamore

41. ROSACEAE (Rose)

CRATAEGUS

dallasiana Sarg. Dallas Red Haw
glabriscula Sarg. Red Haw
Marshallia Eggleston Parsley Haw
scrabiscula Sarg. Red Haw
spathulata Michx. Red Haw

GEUM

canadense Jacq. White Avens
vernum (Raf.) T. & G. Spring Avens

PONTEDICUM

annum (Nutt.) Spach Annual Burnet

PRUNUS

americana Marsh. Wild Plum
angustifolia Marsh. Chickashaw Plum
gracilis (Engelm. & Gray) Slender Wild Plum
mexicana S. Wats. Big Tree Plum
Munsoniana Wight & Hedr. Wild Goose Plum
umbellata Ell. var. *tarda* (Sarg.) Wight
 Wild Plum

ROSA

foliolosa Nutt. Wild Rose

RUBUS

trivialis Michx. Dewberry

42. LEGUMINOSAE (Pea)

ACACIA

amentacea D. C. Cat's Claw

angustissima (Mill) Kuntze Prairie Acacia

AMORPHIA

fruticosa L. var. *angustifolia* Pursh. False Indigo

ASTRAGALUS

crassicaarpus Nutt. Ground Plum

distortus T. & G. Bent Milk Vetch

Engelmanni Sheldon Engelmann Vetch

mexicanus A. DC. Mexican Ground Plum

Nuttallianus DC. Milk Vetch

plattensis Nutt. Ground Plum

reflexus T. & G. Milk Vetch

BAPTISIA

leucophaea Nutt. Wild Indigo

Nuttalliana Small Wild Indigo

CASSIA

fasciculata Michx. Partridge Pea

marilandica L. Wild Senna

nictitans L. Sensitive Pea

CASSIA

Romeriana Scheele Senna

CENTROSEMA

virginianum (L.) Benth. Butterfly Pea

CERCIS

canadensis L. Eastern Redbud

canadensis L. var. mexicana (Rose) Hopkins
Mexican Redbud

canadensis L. var. texensis (S. Wats.) Hopkins
Texas Redbud

CLITORIA

mariana L. Pigeon Wings

CROTALARIA

Purshii DC Rattlebox

retusa L. Rattlebox

DALEA

aurea Nutt. Pussy Foot

enneandra Nutt. Wild Statice

frutescens A. Gray Shrubby Dalea

DESMANTHUS

illinoensis (Michx.) MacMill. Prickle Weed

leptolobus T. & G. Prairie Prickle Weed

DESMODIUM

Dillenii Darl. Tick Trefoil

obtusum (Muhl.) DC. Hairy Tick Trefoil

sessilifolium T. & G. Tick Trefoil

GALACTIA

volubilis (L.) Britton Milk Pea

GLEDISTIA

triacanthos L. Honey Locust

INDIGOPERA

miniata Ort. Scarlet Pea

KRAMERIA

secundiflora DC. Wine Flower

LATHYRUS

pusillus Ell. Dwarf Vetch

LESPEDeza

capitata Michx. var. calycina (Schindler) Fern.

Bush Clover

frutescens (L.) Britton

Wand-like Bush Clover

hirta (L.) Ell.

Hairy Bush Clover

procumbens Michx.

Trailing Bush Clover

repens (L.) Bart.

Creeping Bush Clover

virginica (L.) Britton

Slender Bush Clover

LOTUS

americanus (Nutt.) Bisch.

Wild Vetch

LUPINUS

texensis Hook.

Bluebonnet

MEDICAGO

arabica (L.) Huds.

Spotted Bur Clover

hispida Gaertn.

Bur Clover

lupulina L.

Hop Clover

MEDICAGO

<i>minima</i> L.	Least Bur Clover
<i>sativa</i> L.	Alfalfa

MELILOTUS

<i>alba</i> Desv.	White Sweet Clover
<i>indica</i> L.	Indian Clover
<i>officinalis</i> (L.) Lam.	Yellow Sweet Clover

NEPTUNIA

<i>lutea</i> (Leavenw.) Benth.	Yellow Sensitive Briar
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OXYTROPIS

<i>Lambertii</i> Pursh.	Locoweed
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PETALOSTEMUM

<i>multiflorum</i> Nutt.	White Prairie Clover
<i>pulcherrimum</i> Heller	Beautiful Prairie Clover
<i>purpureum</i> (Vent.) Rydb.	Purple Prairie Clover
<i>purpureum</i> (Vent.) Rydb. var. <i>pubescens</i> A. Gray	Purple Prairie Clover
<i>tenuis</i> (Coulter) Heller	Prairie Clover

PROSOPIIS

<i>chilensis</i> (Molina) Stuntz	Mesquite
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PSORALEA

<i>cuspidata</i> Pursh.	Buffalo Pea
<i>digitata</i> Nutt.	Scurvy Pea
<i>esculenta</i> Pursh.	Prairie Potato
<i>floribunda</i> Nutt.	Wild Alfalfa
<i>hypogaea</i> Nutt.	Indian Breadroot

PSORALEA

- | | |
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| linearifolia T. & G. | Linear-leaf Scurvy Pea |
| rhombifolia T. & G. | Trailing Scurvy Pea |

RHYNCHOSIA

- | | |
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| latifolia Nutt. | Bean Vine |
|-----------------|-----------|

ROBINIA

- | | |
|------------------|--------------|
| Pseudo-Acacia L. | Black Locust |
|------------------|--------------|

SCHRANKIA

- | | |
|------------------------|-----------------|
| angustata T. & G. | Shame Vine |
| Nuttalli (DC.) Standl. | Sensitive Plant |

SESBANIA

- | | |
|------------------------|-------------|
| macrocarpa Muhl. | Bladder-pod |
| vesicaria (Jacq.) Ell. | Siene-weed |

SOPHORA

- | | |
|-----------------|----------------|
| affinis T. & G. | Eve's Necklace |
|-----------------|----------------|

STROPHOSTYLES

- | | |
|------------------------------|--------------------|
| helvola (L.) Ell. | Trailing Wild Bean |
| leiosperma (T. & G.) Piper | Small Wild Bean |
| pauciflora (Benth.) S. Wats. | Pink Wild Bean |

STYLOSANTHUS

- | | |
|-----------------------|---------------|
| biflora (L.) B. S. P. | Pencil Flower |
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TEPHROSIA

- | | |
|-----------------------|------------|
| virginiana (L.) Pers. | Goat's Rue |
|-----------------------|------------|

TRIFOLIUM

- | | |
|---------------------|-------------|
| amphianthum T. & G. | Pink Clover |
| dubium Sibth. | Shamrock |

TRIFOLIUM

repens L. Dutch White Clover

VICIA

Leavenworthii T. & G. Leavenworth Vetch

micrantha Nutt. Vetch

Reverchonii S. Wats. Reverchon Vetch

texana (T. & G.) Small Texas Vetch

ZORNIA

bracteata (Walt.) Gmel. Rabbit Ears

43. LINACEAE (Flax)

LINUM

Berlandieri Hook. Berlandier Yellow Flax

Lewisii Pursh. Blue Flax

sulcatum Riddell Grooved Yellow Flax

44. OXALIDACEAE (Wood Sorrel)

OXALIS

corniculata L. Creeping Wood Sorrel

recurva Ell. var. texana (Small) Wiegand

Sour Grass

stricta L. Yellow Wood Sorrel

violacea L. Violet Wood Sorrel

45. GERANIACEAE (Geranium)

ERODIUM

cicutarium (L.) L'her. Alfilaria

ERODIUM

texanum A. Gray Stork's Bill

GERANIUM

carolinianum L. Wild Geranium

texanum (Trel.) Heller Wild Geranium

46. ZYGOPHYLLIACEAE (Caltrop)

KALLSTROEMIA

hirsutissima Vail. Caltrop

TRIBULUS

terrestris L. Goat-head

47. RUTACEAE (Rue)

PTELIA

trifoliata L. Hep Tree

XANTHOXYLUM

Clava-Herculis L. Prickly Ash

48. SIMARUBACEAE (Quassia)

AILANTHUS

altissima Swingle Tree-of-Heaven

49. MELIACEAE (Mahogany)

MELIA

Azedarach L. Chinaberry

50. POLYGALACEAE (Milkwort)

POLYGALA

alba Nutt. Angel's Wings

POLYGALA

incarnata L. Pink Milkwort

51. EUPHORBIAEAE (Spurge)

ACALYPHA

gracilens A. Gray Slender Mercury-weed
ostreaefolia Ridd. Mercury-weed
virginica L. Virginia Mercury-weed

CNIDOSCOLUS

texanus (Muell. Arg.) Small Bull Nettle

CROTON

capitatus Michx. Hogwort
glandulosus L. Glandular Croton
glandulosus L. var. *septentrionalis* Muell. Arg. Glandular Croton
monanthogynus Michx. Prairie Tea
texensis (Kl.) Muell. Arg. Skunk Weed

DITAXIS

humilis (Engelm. & Gray) Pax Low Ditaxis
mercurialina (Nutt.) Coulter Tall Ditaxis

EUPHORBIA

bicolor Engelm. Snow-on-the-Mountain
chamaesyce L.
cordifolia Elliott
cerollata L. Flowering Spurge
dentata Michx. Toothed Spurge

EUPHORBIA

<i>dictyosperma</i> Fisch. & Mey.	Arkansas Spurge
<i>flagelliformis</i> Engelm.	
<i>Geyeri</i> Engelm.	Geyer Spurge
<i>glyptosperma</i> Engelm.	Ridge-seeded Spurge
<i>heterophylla</i> L.	Pointed Leaf Spurge
<i>hexagona</i> Nutt.	Angled Spurge
<i>hypericifolia</i> L.	
<i>maculata</i> L.	Milk Purslane
<i>marginata</i> Pursh.	Snow-on-the-Mountain
<i>missourica</i> Raf.	
<i>Nuttalli</i> (Engelm.) Small	Nuttall Spurge
<i>nutans</i> Lag.	Upright Spotted Spurge
<i>polyclada</i> Boiss	Carpetweed
<i>prostrata</i> Ait.	Prostrate Milkweed
<i>serpens</i> H. B. K.	Spreading Spurge
<i>serpillifolia</i> Pers.	Thyme-leaf Spurge

PHYLLANTHUS

<i>polygonoides</i> Nutt.	Leaf Flower
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STILLINGIA

<i>sylvatica</i> L.	Queen's Delight
<i>texana</i> Johnston	Texas Queen's Delight

TRAGIA

<i>nepetaefolia</i> Cav.	Stinging Nettle
<i>ramosa</i> Torr.	Branching Nettle
<i>urticifolia</i> Michx.	Stinging Nettle

52. ANACARDIACEAE (Sumac)

RHUS

<i>copallina</i> L.	Mountain Sumac
<i>glabra</i> L.	Staghorn Sumac
<i>lanceolata</i> (A. Gray) Britton	Sumac
<i>rhomboidea</i> Small	Sumac
<i>toxicodendron</i> L.	Poison Ivy
<i>toxicodendron</i> L. var. <i>radicans</i> (L.) Torr.	Poison Ivy
<i>trilobata</i> Nutt.	Skunk Bush

53. AQUIFOLIACEAE (Holly)

ILEX

<i>decidua</i> Walt.	Possum Haw
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54. GELASTRACEAE (Staff-tree)

EUCONYMUS

<i>stropurpureus</i> Jacq.	Wahoo
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55. ACERACEAE (Maple)

ACER

<i>Negundo</i> L.	Box Elder
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56. HIPPOCASTANACEAE (Horse-chestnut)

AESCULUS

<i>arguta</i> Buckl.	Western Buckeye
<i>glabra</i> Buckl. var. <i>leucodermis</i> Sarg.	Ohio Buckeye

57. SAPINDACEAE (Soapberry)

CARDIOSPERMUM

<i>Halicacabum</i> L.	Balloonvine
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SAPINDUS

<i>Drummondii</i> H. & A.	Soapberry
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UNGNADIA

<i>speciosa</i> Endl.	Mexican Buckeye
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58. RHAMNACEAE (Buckthorn)

BERCHEMIA

<i>scandens</i> (Hill) Trel.	Supplejack
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CRANOTHUS

<i>ovatus</i> Desf.	Redroot
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RHAMNUS

<i>caroliniana</i> Walt.	Indian Cherry
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59. VITACEAE (Grape)

CISSUS

<i>ampelopsis</i> Pers.	
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<i>arborea</i> (L.) Des Moulins	Peppervine
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<i>incisa</i> (Nutt.) Des Moulins	Possum Grape
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PARTHENOCCISSUS

<i>quinquefolia</i> (L.) Planch.	Virginia Creeper
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VITIS

<i>candicans</i> Engelm.	Mustang
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<i>cinerea</i> Engelm.	Downy Grape
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<i>rupestris</i> Scheele	Mountain Grape
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60. MALVACEAE (Mallow)

ABUTILON

incanum (Link.) Sweet Indian Mallow

CALLIREHOE

alcaeoides (Michx.) A. Gray Light Poppy Mallow

digitata Nutt. Fringed Poppy Mallow

involucrata (Nutt.) A. Gray Wine Cup

MALVA

rotundifolia L. Dwarf Mallow

SIDA

procumbens Sw.

spinosa L. Indian Mallow

SPHAERALCEA

angustifolia (Cav.) Don. var. cuspidata A. Gray

61. HYPERICACEAE (St. Johnswort)

ASCYRUM

hypericoides L. St. Andrew's Cross

HYPERICUM

Drummondii (Grev. & Hook.) T. & G. Drummond St. Johnswort

punctatum Lam. Spotted St. Johnswort

62. ELATINACEAE (Waterwort)

BERGIA

texana (Hook.) Seubert

63. CISTACEAE (Rockrose)

HELIANTHEMUM

<i>Bicknellii</i> Fernald	Rockrose
<i>Rosmarinifolium</i> Pursh.	Frost Weed

LECHEA

<i>Drummondii</i> (Spach) T. & G.	Drummond Pinweed
<i>san-sabaeana</i> (Buckley) Hodgdon	San Saba Pinweed
<i>tenuifolia</i> Michx.	Narrow-leaf Pinweed
<i>tenuifolia</i> Michx. var. <i>occidentalis</i> Hodgdon	Pinweed
<i>villosa</i> Ells.	Hairy Pinweed

64. VIOLACEAE (Violet)

HYBANTHUS

<i>verticillatus</i> (Ort.) Baill.	Green Violet
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VIOLA

<i>affinis</i> LeConte	LeConte Violet
<i>Langloisii</i> Greene	Meadow Violet
<i>obliqua</i> Hill	Wild Violet
<i>Rafinesquii</i> Greene	Johnny Jump Up
<i>villosa</i> Walt.	Hairy Violet

65. PASSIFLORACEAE (Passion-flower)

PASSIFLORA

<i>incarnatum</i> L.	Maypop
<i>lutea</i> L.	Yellow Passion Flower

66. LOASACEAE (Loasa)

MENTZELIA

<i>oligosperma</i> Nutt.	Blazing Star
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67. CACTACEAE (Cactus)

MAMMILLARIA

<i>similis</i> Engelm.	Pin-cushion Cactus
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OPUNTIA

<i>humifusa</i> Raf.	Prickly Pear
<i>leptocaulis</i> DC.	Rat-tail Cactus
<i>macrorhiza</i> Engelm.	Prickly Pear

68. LYTHRACEAE (Loosestrife)

AMMANNIA

<i>auriculata</i> Willd.	
<i>coccinea</i> Rottb.	

LYTHRUM

<i>lanceolatum</i> Ell.	Lance-leaf Loose-strife
<i>linearifolium</i> (A. Gray) Small	Linear-leaf Loose-strife

NOTALA

<i>ramosior</i> (L.) Koehne	Tooth-cup
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69. ONAGRACEAE (Evening Primrose)

GAURA

<i>odorata</i> Sesse ex Lag.	Wild Honeysuckle
<i>parviflora</i> Dougl.	Lizard Tail
<i>sinuata</i> Nutt.	Wild Honeysuckle
<i>suffulta</i> Engelm.	Wild Honeysuckle

JUSSIAREA

<i>decurrens</i> (Walt.) DC.	Primrose Willow
<i>diffusa</i> Forskl.	Water Primrose
<i>leptocarpa</i> Nutt.	

LUDWIGIA

<i>alternifolia</i> L.	Rattlebox
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OENOTHERA

<i>biennis</i> L.	Evening Primrose
<i>laciniata</i> Hill	Dwarf Evening Primrose
<i>laciniata</i> Hill var. <i>grandiflora</i> (S. Wats.) Robinson	
<i>missouriensis</i> Sims.	Giant Evening Primrose
<i>rhombipetala</i> Nutt.	Rhombic Evening Primrose
<i>serrulata</i> Nutt.	Willow Weed
<i>serrulata</i> Nutt. var. <i>Drummondii</i> T. & G.	
	Willow Weed
<i>Spachiana</i> T. & G.	Sundrops
<i>speciosa</i> Nutt.	Showy Primrose
<i>triloba</i> Nutt.	Suncups

STENOSIPHON

<i>linifolius</i> (Nutt.) Britton	Flax-leaf Stenosiphon
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70. UMBELLIFERAE (Parsley)

AMMI

<i>majus</i> L.	
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AMMOSELINUM

<i>Butleri</i> (Engelm.) Coulter & Rose	Sand Parsley
<i>Popei</i> T. & G.	Sand Parsley

APIUM

leptophyllum (Pers.) F. V. Muell. Marsh Parsley

BIFORA

americana (DC.) S. Wats. Laceflower

BOWLESIA

incana R. & P.

CHAMROPHYLLUM

Teinturierii Hook. var. dasycarpum (Nutt.) S. Wats.

Chervil

CYNOPTERUS

macrorhizus Buckl. Indian Potato

CYNOSCIADIUM

digitatum DC.

DAUCUS

pusillus Michx. Stick Tights

ERYNGIUM

Hookeri Walp. Swamp Eryngo

Leavenworthii T. & G. False Purple-thistle

HYDROGOTYLE

verticillata Thunb. Marsh Pennywort

POLYTAENIA

Nuttallii (DC.) Coulter & Rose Prairie Parsley

PTILIMNIUM

Nuttallii (DC.) Britton Queen Ann's Lace

SANICULA

canadensis L. Snakeroot

SPERMOLÉPIS

divaricata (Walt.) Raf.

echinata (Nutt.) Heller

TORILIS

nodosa (L.) Gaertn.

71. CORNAGEAE (Dogwood)

CORNUS

asperifolia Michx.

Rough-leaf Dogwood

72. PRIMULACEAE (Primrose)

ANDROSACE

occidentalis Pursh.

DODOCATHEON

Meadia L.

Shooting Star

SAMOLUS

parviflorus Raf.

Water Pimpernel

73. SAPOTACEAE (Sapote)

BUMELIA

lanuginosa (Michx.) Pers.

Gum Elastic

74. EBENACEAE (Persimmon)

DIOSPYROS

virginiana L.

Persimmon

75. OLEACEAE (Ash)

FORESTIERA

pubescens Nutt. Elbow Bush

FRAXINUS

americana L. White Ash

pennsylvanica Marsh var. lanceolata (Muhl.) Sarg.

Green Ash

texensis (A. Gray) Sarg.

Texas Ash

76. LOGANIACEAE (Logania)

CYNDOCTONUM

mitreola (L.) Britton Mitrewort

POLYPREMUM

procumbens L. Poly Prim

77. GENTIANACEAE (Gentian)

CENTAURIUM

Beyrichii (T. & G.) Fernald Mountain Pink

texense (Griseb.) Fernald Texas Centaury

EUSTOMA

Russellianum (Hook.) Griseb. Prairie Gentian

SABATIA

campestris Nutt. Meadow Pink

carnosa Small Meadow Pink

78. APOCYNACEAE (Dogbane)

AMSONIA

ciliata Walt. var. *texana* (A. Gray) Coulter

Texas Blue Star

APOCYNUM

cannabinum L.

Indian Hemp

79. ASCLEPIADACEAE (Milkweed)

ACERATES

angustifolia (Nutt.) Deane

Narrow-leaf Milkweed

viridiflora (Raf.) Eaton

Green Milkweed

ASCLEPIAS

amplexicaulis J. E. Smith

Blunt-leaf Milkweed

Lindheimeri Engelm. & Gray

Lindheimer Milkweed

linearis Scheele

Milkweed

pumila (A. Gray) Vail

Low Milkweed

tuberosa L.

Butterfly Weed

verticillata L.

Whorled Milkweed

verticillata L. var. *subverticillata* A. Gray

Whorled Milkweed

ASCLEPIODORA

decumbens (Nutt.) A. Gray

Popcorn Milkweed

viridis (Walt.) A. Gray

Antelope Horns

FUNASTRUM

crispum (Benth.) Schlechter

GONCLOBUS

laevis Michx. Sandvine

VINCEETOXICUM

biflorum (Raf.) Heller Angle Pod

gonocarpus Walt. Large-leaf Angle Pod

80. CONVULVULACEAE (Morning-glory)

CONVOLVULUS

arvensis L. Small Bindweed

hermannioides A. Gray Bindweed

sepium L. var. pubescens (A. Gray) Fernald

Bindweed

CUSCUTA

cuspidata Engelm. Dodder

indecora Choisy var. hispida (Engelm.) Yuncker

Prairie Dodder

pentagona Engelm. Love Vine

DICHONDRA

repens Forst. var. carolinensis (Michx.) Choisy

Moneywort

EVOLVULUS

mollis Small Dwarf Morning-glory

Nuttallianus R. & S. Dwarf Morning-glory

sericeus Sw. Dwarf Morning-glory

IPOMOEA

cairica (L.) House Morning-glory

IPOMOEA

<i>lacunosa</i> L.	Small White Morning-glory
<i>trifida</i> (H. B. K.) G. Don.	Morning-glory

81. POLEMONIACEAE (Phlox)

GILIA

<i>rubra</i> (L.) Heller	Standing Cypress
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PHLOX

<i>Drummondii</i> Hook. var. <i>tenuis</i> A. Gray	Slender Phlox
<i>pilosa</i> L.	Prairie Phlox

82. HYDROPHYLLACEAE (Waterleaf)

NAMA

<i>dichotomum</i> Ruiz & Pavon	Sand Bells
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NEMOPHILA

<i>phacelioides</i> Nutt

PHACELIA

<i>congesta</i> Hook. var. <i>dissecta</i> A. Gray	Blue Curls
<i>patuliflora</i> A. Gray	Baby Blue Eyes
<i>strictiflora</i> (Engelm. & Gray) A. Gray	

83. BORAGINACEAE (Borage)

HELIOTROPIUM

<i>curassavicum</i> L.	Seaside Heliotrope
<i>indicum</i> L.	Indian Heliotrope
<i>tennellum</i> Torr.	Slender Heliotrope

LAPPULA

<i>texana</i> (Scheele) Britton	Hairy Stick Seed
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LITHOSPERMUM

<i>carolinense</i> (Walt.) MacMill.	Woolly Puccoon
<i>incisum</i> Lehm.	Fringed Puccoon

MYOSOTIS

<i>virginica</i> (L.) B. S. P.	Scorpion Grass
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ONOSMODIUM

<i>molle</i> Michx. var. <i>occidentalis</i> (Mack.) Johnston	False Gromwell
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84. VERBENACEAE (Verbena)

CALLICARPA

<i>americana</i> L.	French Mulberry
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LIPPIA

<i>cuneifolia</i> Torr.	Fog-fruit
<i>incisa</i> (Small) Tidestrom	Fog-fruit
<i>lanceolata</i> Michx. var. <i>recognita</i> Fern. & Griseb.	
<i>nodiflora</i> (L.) Michx.	Fog-fruit

VERBENA

<i>bipinnatifida</i> Nutt.	Prairie Verbena
<i>bracteata</i> Lag. & Rodr.	Large-bract Verbena
<i>ciliata</i> Benth. var. <i>longidentata</i> Perry	Pink Verbena
<i>Halei</i> Small	Tall Verbena
<i>officinalis</i> L.	Tall Verbena
<i>pumila</i> Rydb.	Low Verbena
<i>urticifolia</i> L.	Nettle-leaf Verbena

VITEX

agnus-castus L. Mexican Lavender

85. LABIATAE (Mint)

BRAZORIA

scutellarioides Engelm. & Gray Brazos Mint

truncata (Benth.) Engelm. & Gray Brazos Mint

HEDEOMA

acnoides Scheele Mock Pennyroyal

hispidula Pursh. Rough Pennyroyal

lata Small Mock Pennyroyal

Reverchonii A. Gray Reverchon Pennyroyal

LAMIUM

amplexicaule L. Henbit

LYCOPUS

americanus Muhl. Bugle-weed

MARRUBIUM

vulgare L. Houndhound

MENTHA

piperita L. Peppermint

spicata L. Spearmint

MONARDA

citriodora Cerv. ex Lag. Purple Horsemint

clinopodioides A. Gray Dwarf Horsemint

fistulosa L. var. *mollis* (L.) Epling Wild Bergamot

punctata L. Green Horsemint

SALVIA

farinacea Benth.

Prairie Sage

Pitcheri Torr.

Blue Sage

SALVIASTRUM

texasum Scheele

Texas Sage

SCUTELLARIA

australis Epling

Southern Skullcap

cardiophylla Engelm. & Gray

Skullcap

Drummondii Benth.

Skullcap

parvula Michx.

Skullcap

resinosa Torr.

Resinous Skullcap

STACHYS

agaria Cham. & Schl.

Hedge Nettle

TEUCRIUM

canadense L. var. *virginicum* (L.) Eaton

Wood Sage

laciniatum Torr.

White Mint

86. SOLANACEAE (Nightshade)

CHAMAESRACHA

coronopus (Dunal) A. Gray

Ground Sarcha

DATURA

Meteloides DC.

Jimson Weed

PETUNIA

parviflora Juss.

Wild Petunia

PHYSALIS

<i>lobata</i> Torr.	Purple Ground Cherry
<i>longifolia</i> Nutt.	Long-leaf Ground Cherry
<i>maritima</i> M. A. Curtis	Yellow Henbane
<i>mollis</i> Nutt.	Low Ground Cherry
<i>pendula</i> Rydb.	Lance-leaf Ground Cherry
<i>virginiana</i> Mill. var. <i>intermedia</i> Rydb.	Ground Cherry

SOLANUM

<i>carolinense</i> L.	Horse Nettle
<i>eleagnifolium</i> Cav.	Silver-leaf Nightshade
<i>nigrum</i> L.	Black Nightshade
<i>rostratum</i> Dunal	Buffalo Bur

87. SCROPHYLLARIACEAE (Figwort)

BACOPA

<i>rotundifolia</i> (Michx.) Wettst.

CASTILLEJA

<i>indivisa</i> Engelm.	Scarlet Paint Brush
<i>purpurea</i> (Nutt.) G. Don.	Indian Paint Brush

COLLINSIA

<i>violacea</i> Nutt.	Blue-eyed Mary
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CONOBEA

<i>multifida</i> (Michx.) Benth.	Conobea
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GERARDIA

<i>grandiflora</i> Benth. var. <i>cinerea</i> (Pennell) Cory	False Foxglove
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GERARDIA

heterophylla Nutt.

Prairie Gerardia

GRATIOLA

virginiana L.

LINARIA

texana Schesle

Texas Toad Flax

LINDBERNA

anagallidea (Michx.) Pennell

False Pimpernel

dubia (L.) Pennell

False Pimpernel

MIMULUS

alatus Ait.

Monkey Flower

PENSTEMON

cobaea Nutt.

Beard Tongue

laxiflorus Pennell

Small Beard Tongue

VERBASCUM

thapsus L.

Mullen

VERONICA

peregrina L. var. *xalapensis* (H. B. K.) Pennell

Purslane Speedwell

88. LENTIBULARIACEAE (Bladderwort)

UTRICULARIA

gibba L.

Hump-back Bladderwort

pumila Walt.

Two-flowered Bladderwort

89. OROBANCHACEAE (Broom-rape)

OROBANCHE

uniflora L. One-flower

90. BIGNONIACEAE (Trumpet-creeper)

CAMPSIS

radicans (L.) Seem. Trumpet Vine

91. MARTYNIACEAE (Unicorn)

MARTYNIA

louisianica Mill Devil's Claw

92. AGANTHACEAE (Acanthus)

DIANTHERA

americana L. Water Willow

americana L. var. subcoriacea (Fernald) comb. nov.

Water Willow

lanceolata (Chapm.) Small Narrow-leaf Water Willow

DIGLIPTERA

brachiata (Pursh) Spreng.

DYSCHORISTE

linearis (T. & G.) Kuntze Polka Dots

RUELLIA

cilosa Pursh. var. humilis Britton Wild Petunia

pedunculata Torr. Wild Petunia

strepens L. Wild Petunia

93. PLATAGNIACEAE (Plantain)

PLANTAGO

<i>aristata</i> Michx.	Bracted Plantain
<i>elongata</i> Pursh.	Plantain
<i>occidentalis</i> Decne.	Winter Fat
<i>Purshii</i> R. & S.	Salt & Pepper Plant
<i>rhodosperma</i> Decne.	Plantain
<i>virginica</i> L. var. <i>longifolia</i> A. Gray	Dwarf Plantain

94. RUBIACEAE (Madder)

CEPHALANTHUS

<i>occidentalis</i> L.	Button Willow
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DIODIA

<i>teres</i> Walt.	Rough Buttonweed
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GALIUM

<i>aparine</i> L.	Goosegrass
<i>pilosum</i> Ait.	Hairy Bedstraw
<i>virgatum</i> Nutt.	Southwestern Bedstraw

HOUSTONIA

<i>angustifolia</i> Michx.	Star Violet
<i>minima</i> Beck	Least Bluet
<i>patens</i> Ell.	Small Bluet

95. CAPRIFOLIACEAE (Honey-suckle)

LONICERA

<i>albiflora</i> T. & G.	White Honey-suckle
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SAMBUCUS

canadensis L. Elderberry

SYMPHORICARPOS

orbiculatus Moench. Coralberry

VIBURNUM

rufidulum Raf. Black Haw

96. VALERIANACEAE (Valerian)

VALERIANELLA

amarella Krok. Kiss-me-and-I'll-Tell-you

stenocarpa (Engelm.) Krok. Narrow-leaf Corn Salad

stenocarpa (Engelm.) Krok. var. parviflora Dyal

Narrow-leaf Corn Salad

Woodsiana (T. & G.) Walt. Wood Corn Salad

97. CUCURBITACEAE (Gourd)

CUCURBITA

foetidissima H. B. K. Wild Gourd

IBERVILLEA

Lindheimeri (A. Gray) Greene Balsam Apple

MELOTHRIA

pendula L. Creeping Cucumber

98. CAMPANULACEAE (Blue Bell)

SPECULARIA

biflora (R. & P.) F. & M. Small Venus Looking-glass

leptocarpa (Nutt.) A. Gray Venus Looking-glass

SPECULARIA

perfoliata (L.) A. DC. Venus Looking-glass

99. LOBELIACEAE (Lobelia)

LOBELIA

cardinalis L. Cardinal Flower

100. COMPOSITAE (Composite)

ACHILLEA

millefolium L. Yarrow

ACTINEA

linearifolia (Hook.) Kuntze Gold Crown

scapoza (DC.) Kuntze var. *linearis* (Nutt.) Robinson
Gold Crown

AMBROSIA

aptera DC Blood Weed

artemisaefolia L. var. *elatior* (L.) Desc.

Ragweed

psilostachya DC.

Western Ragweed

trifida L.

Horseweed

ANTENNARIA

plataginifolia (L.) Richards Plantain-leaf Everlasting

ANTHEMIS

cotula L.

Mayweed

APHANOSTEPHUS

humilis (Benth.) A. Gray

Poorland Daisy

skirrhobasis (DC.) Trelease

White Daisy

APLOPAPPUS

- | | |
|------------------------------------|-------------|
| <i>ciliatus</i> (Nutt.) DC. | Big Gumweed |
| <i>divaricatus</i> (Nutt.) A. Gray | |

ARTEMISIA

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| <i>mexicana</i> Willd. | Wormwood |
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ASTER

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| <i>Drummondii</i> Lindl. | Drummond Aster |
| <i>dumosus</i> L. var. <i>subulaefolius</i> T. & G. | Bushy Aster |
| <i>ericoides</i> L. | White Wreath Aster |
| <i>exilis</i> Ell. | Slim Aster |
| <i>lateriflorus</i> (L.) Britton | Starved Aster |
| <i>oblongifolius</i> Nutt. var. <i>rigidulus</i> A. Gray | Aromatic Aster |
| <i>pentotrichus</i> Blake | |
| <i>patens</i> Ait. | Purple Aster |
| <i>phyllolepis</i> T. & G. | |
| <i>praecaltus</i> Poir | Willow Aster |
| <i>sagittifolius</i> Willd. var. <i>dissitifolius</i> Burgess | Arrow-leaf Aster |
| <i>tenuicaulis</i> (Mohr.) Burgess | Purple Aster |
| <i>texanus</i> Burgess | Texas Aster |

ASTRANTHIUM

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| <i>integrifolius</i> (Michx.) Nutt. | Western Daisy |
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BIDENS

- | | |
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| <i>frondosa</i> L. | Beggar's Ticks |
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CACALIA

tuberosa Nutt.

Indian Plantain

CENTAUREA

americana (Don.) Nutt.

Star Thistle

CHAETOPAPPA

asteroides (Nutt.) DC.

Least Daisy

CHRYSOPSIS

Berlandieri Greene

Golden Aster

pilosa Nutt.

Golden Aster

CIRSIUM

altissimum (L.) Spreng.

Tall Thistle

austrinum (Small) E. D. Schulz

Southern Thistle

undulatum (Nutt.) Spreng.

Wavy-leaf Thistle

COREOPSIS

basalis (Dietr.) Blake

Cress-leaf Tickseed

cardaminaefolia (DC.) T. & G.

Tickseed

grandiflora Hogg.

Tickseed

DYSSODIA

tagetoides T. & G.

tenuiloba (DC.) Robinson

Tiny Tim

ECHINACEA

angustifolia DC.

Purple Cone Flower

ECLIPTA

alba (L.) Hassk.

Yerba de tajo

ELEPHANTOPUS

carolinianus Willd.

Elephant's Foot

ENGELMANNIA

pinnatifida T. & G. Engelmann Daisy

ERIGERON

annuus (L.) Pers. Fleabane Daisy

canadensis L. Mare's Tail

divarticatus Michx. Dwarf Fleabane

philadelphicus L. Wood Daisy

ramosus B. S. R. Fleabane Daisy

tennis T. & G. Slender Fleabane

EUPATORIUM

coelestinum L. Blue Mist Flower

purpureum L. Purple Boneset

serotinum Michx. White Boneset

EVAX

multicaulis DC. Indian Tobacco

GAILLARDIA

fastigiata Greene Indian Blanket

lanceolata Michx. Indian Blanket

pulchella Foug. Indian Blanket

suavis (Gray & Engelm.) Britt. & Rusby Globe Flower

villosa Rydb. Yellow Indian Blanket

GNAPHALIUM

obtusifolium L. Balsam-weed

purpureum L. Purple Cudweed

spathulatum Lam. Cudweed

GRINDELIA

<i>lanceolata</i> Nutt.	Narrow-leaf Gumplant
<i>microcephala</i> DC. var. <i>adenodonta</i> Steyermark.	
	Small Gumweed
<i>squarrosa</i> (Pursh) Dunal	Broad-leaf Gumplant
<i>texana</i> Schesle	Texas Gumplant

GUTIERREZIA

<i>dracunculoides</i> (DC.) Blake	Broomweed
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HELENIUM

<i>latifolium</i> Mill.	Sneezeweed
<i>microcephalum</i> DC.	Sneezeweed
<i>tenuifolium</i> Nutt.	Bitterweed

HELIANTHUS

<i>annuus</i> L.	Common Sunflower
<i>ciliaris</i> DC.	Blue Weed
<i>hirsutus</i> Raf.	Stiff-haired Sunflower
<i>Maximiliani</i> Schrad.	Maximilian Sunflower
<i>petiolaris</i> Nutt.	Prairie Sunflower

HETEROTHECA

<i>subaxillaris</i> (Lam.) Britt. & Rusby	Gumpher Weed
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HYMENOPAPPUS

<i>corymbosus</i> T. & G.	Wild Cauliflower
<i>scabiosaeus</i> L'Her.	Wild Cauliflower

IVA

<i>angustifolia</i> Nutt.	Narrow-leaf Marsh Elder
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IVA

ciliata Willd.

Rough Marsh Elder

KRIGIA

occidentalis Nutt.

Western Dandelion

KUHNIA

glutinosa Ells.

Prairie Boneset

LACTUCA

canadensis L.

Wild Lettuce

ludoviciana (Nutt.) DC.

Western Lettuce

scariola L. var. *integrata* Gren. & Godr.

Prickly Lettuce

LEPACHYS

columnaris (Sims) T. & G.

Long-headed Coneflower

columnaris (Sims) T. & G. var. *pulcherrima* (G. Don) T. & G.

Long-headed Coneflower

peduncularis T. & G.

Coneflower

tagetes (James) A. Gray

Short-rayed Coneflower

LIATRIS

angustifolia Bush.

Narrow-leaf Blazing Star

elegans (Walt.) Willd.

Handsome Blazing Star

punctata Hook.

Dotted Button Snakeroot

squarrosa Willd. var. *intermedia* (Lindl.) DC.

Scaly Blazing Star

LINDHEIMERA

texana Engelm. & Gray

Yellow Texas Star

LYGODESMIA

texana (T. & G.) Greene

Skeleton Weed

MARSHALLIA

caespitosa Nutt.

ONOPORDUM

acanthium L.

Cotton Thistle

PARTHENIUM

hysterophorus L.

Feverfew

PLUCHEA

camphorata (L.) DC.

Spicy Fleabane

POLYPTERIS

callosa (Nutt.) A. Gray

PYRRHOPAPPUS

grandiflorus Nutt.

Rough False Dandelion

multicaulis DC.

False Dandelion

RUDBECKIA

amplexicaulis Vahl.

Clasping-leaf Coneflower

hirta L.

Black-eyed Susan

maxima Nutt.

Great Coneflower

SENECIO

glabellus Poir

Butterweed

imparipinnatus Klatt.

Ragwort

obovatus Muhl. var *rotundus* Britton

Squaw-weed

pauperculus Michx.

Balsam Groundsel

plattensis Nutt.

Prairie Ragwort

SERINIA

<i>oppositifolia</i> (Raf.) Kuntze	Dwarf Dandelion
<i>Wrightii</i> (A. Gray) Kuntze	

SILPHIUM

<i>albiflorum</i> A. Gray	Compass Plant
<i>asperrimum</i> Hook.	Compass Plant
<i>laciniatum</i> L.	Compass Plant

SOLIDAGO

<i>altissima</i> L.	Tall Goldenrod
<i>delicatula</i> Small	Small Goldenrod
<i>Lindheimeriana</i> Scheele	Lindheimer Goldenrod
<i>nemorialis</i> Ait.	Dwarf Goldenrod
<i>radula</i> Nutt.	Western Goldenrod
<i>nitida</i> T. & G.	Goldenrod
<i>rigida</i> L.	Hardleaf Goldenrod
<i>serotina</i> Ait.	Late Goldenrod

SONCHUS

<i>asper</i> (L.) Hill	Sow Thistle
<i>oleraceus</i> L.	Annual Sow Thistle

TARAXACUM

<i>palustre</i> (Lyons) Lam. & DC. var <i>vulgare</i> (Lam.) Fern.	Dandelion
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TETRAGONOTHECA

<i>ludoviciana</i> (T. & G.) A. Gray	Ragged Daisy
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THELESPERMA

trifidum (Poir) Britton	Prairie Gold
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VERBESINA

encelioides (Cav.) Benth. & Hook.	Yellow Top
virginica L.	Virginia Crownbeard

VERNONIA

Baldwini Torr. var. interior (Small) Schubert	Baldwin Iron Weed
Lindheimeri Engelm. & Gray	Lindheimer Iron Weed

XANTHISMA

texanum DC.	Sleepy Daisy
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XANTHIUM

speciosum Kearney	Cocklebur
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CHAPTER IV

CONCLUSIONS

Of the two distinct belts of vegetation which occur in Tarrant County, the two sandy areas, the East and West Cross Timbers, are richest in number of species. The two prairie areas, the Grand Prairie and Black Prairie, are richest, however, in number of individuals.

The county lies near the junction of the humid and semiarid divisions of the Lower Austral Zone, and has accordingly a mixture of temperate and subtropical wild life.

A number of plants that vary somewhat from the published descriptions were collected. These plants may later prove to be new species or varieties. Among the plants that are not typical are: Cirsium undulatum (Nutt.) Spreng., Apium leptophyllum (Pers.) F. V. Muell., Draba brachycarpa Nutt., Spiranthes gracilis (Bigel.) Beck., Oenothera trilobata Nutt., Salviastrum texanum Scheele, and Houstonia patens Ells.

As a result of this study the range of a number of spermatophytes has been extended to Tarrant County. Examples of plants collected in the area for the first time are: Sisyrinchium minus Engelm. & Gray, Trifolium amphianthum T. & G., Fetalostemum pulcherrimum Heller, Polygala incarnata L., Coreopsis cardaminaefolia (DC.) T. & G., and Gaillardia villosa Rydb.

Lemna trinerva (L.) Small, a duckweed, was collected here for the first time in the state of Texas.

This investigation shows further that eight hundred and ninety-nine species and varieties of seed plants occur in Tarrant County. The distribution of species among the three leading families shows that one hundred and thirty-seven belong to the Compositae, one hundred and five to the Graminae, and eighty-seven to the Leguminosae.

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