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BIOLOGICAL SURVEY

of the

EAST TEXAS BIG THICKET AREA

By
H. B. PARKS, V. L. CORY, AND OTHERS

Sponsored by

SAM HOUSTON STATE TEACHERS COLLEGE
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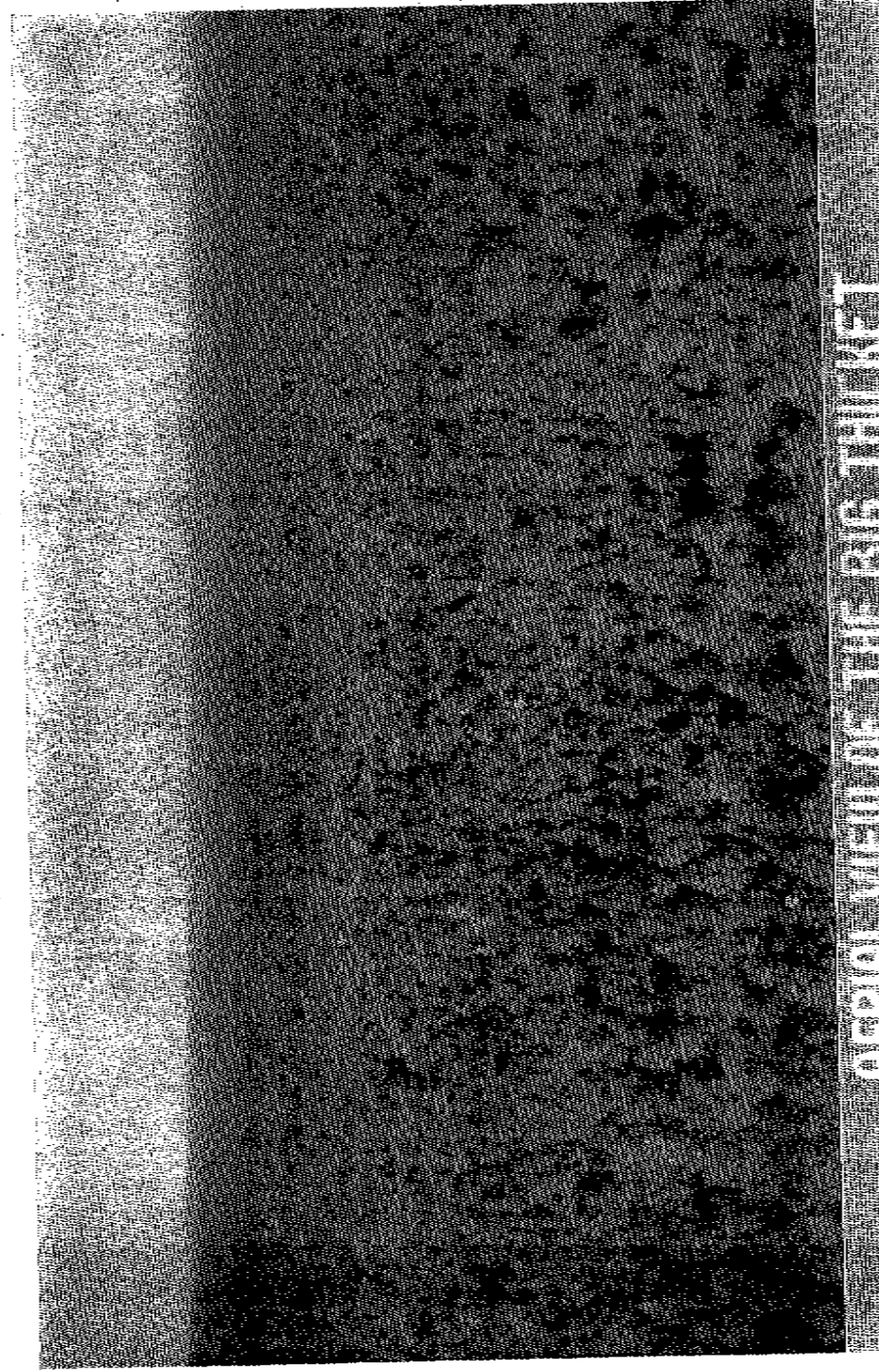
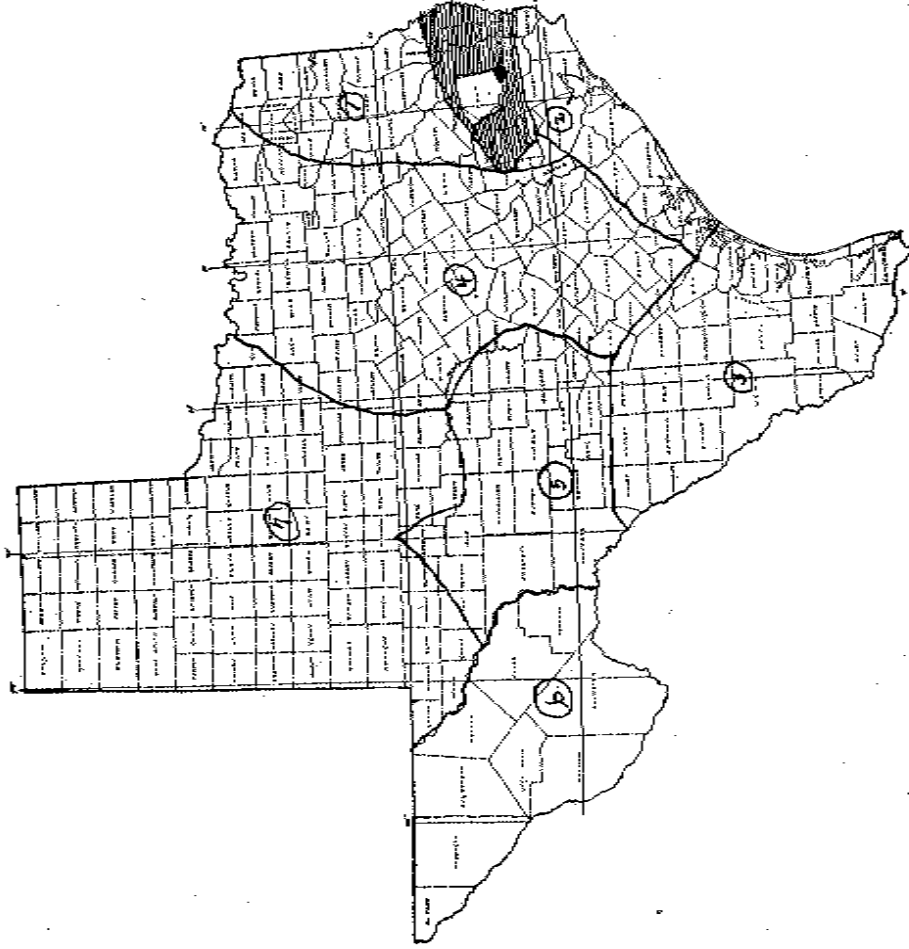
THE TEXAS ACADEMY OF SCIENCE
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PLANT AREAS OF TEXAS

1. Timber Belt.
2. Coastal Prairies.
3. Rio Grande Plains.
4. Edwards Plateau.
5. Prairies.
6. Trans Pecos.
7. Plains.
- Jackson's lease, approximately 18,000 Acres.
- Proposed Reservation, approximately 435,000 Acres.
- ▨ Original Big Thicket, approximately 3,350,000 Acres.



FOREWORD

The very words, Big Thicket, are intriguing, awakening the desire for more information, whether it be from the curiously inclined layman, or from the research specialist longing for more fields to conquer. The need for a survey has long been evident. This need is evident in this age of rapidly diminishing forests and vanishing wild animal life.

It was with the hope that some of this fascinating area might be preserved for future generations that R. E. Jackson and I urged that a survey be made of this most unique area of East Texas, a region extending almost from our very door at Huntsville to the Southeast.

To give credit to all those who have contributed to the work of this survey would require too great a space; however, we shall mention a few.

A large share of credit is due A. B. Conner, Director, Texas Agricultural Experiment Station, for his co-operation in lending H. B. Parks and V. L. Cory to direct the work and to H. B. Parks especially for his untiring work in compiling and seeing that all of the lists were carefully checked.

Much credit is also due to the late Ray Gill, Manager of the Beaumont Chamber of Commerce, who early saw the possibilities of the Big Thicket as a forest and wild-life area and who was an enthusiastic pioneer in this work encouraging others to help save at least a part of this natural area unmarred. Perhaps no greater tribute could be paid Mr. Gill than the carrying on of the task which he so nobly started. His memory is an inspiration to all those who realize the potentialities of the Big Thicket area and who are willing to play a part in its redemption, conservation, and development.

Credit is also due to R. E. Jackson who has continually worked for the preservation of this area, and to the Forest Committee of the Beaumont Chamber of Commerce for their ever ready support of every move to better this area.

I believe that everyone making a direct contribution to the check lists is a member of the Texas Academy of Science and I want to take this opportunity to thank these members for their splendid and generous contribution. While these check lists are in no instance complete, every entry has been made on the authority of a well known author. This area offers a wonderful opportunity for further study and research in most of the fields included and it is hoped that this work will encourage further research.

DON O. BAIRD,
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A FEW BIG THICKET WORKERS



H. B. PARKS, Chief State Agricultural
Research Laboratory, San Antonio



J. R. KEIG, Chairman Forestry
Committee, Beaumont Chamber
of Commerce, Beaumont



R. E. JACKSON, President East Texas



DON O. BAIRD, President the

PREFACE

In July, 1936, R. E. Jackson, President of the East Texas Big Thicket Association, and Dr. Don O. Baird, President of the Texas Academy of Science and Professor of Biology at Sam Houston State Teachers College, held conferences with Director A. B. Conner of the Texas Agricultural Experiment Station and requested that he send V. L. Cory and H. B. Parks of that organization to visit the Big Thicket region of East Texas in order that they might have a first hand knowledge of the territory covered by the lease of the Big Thicket Association. This information was to be added to the already accumulated observations made by these men and incorporated into a report on the Big Thicket, this report to contain lists of organisms of use or of interest to man. These lists were to be accompanied by observations giving opportunities presented by this area for scientific investigation, recreation, hunting, fishing, and systematic harvesting of forest products. This report is to be used in an attempt to enlarge the present lease into a very pretentious wild life preserve.

On the approval of Director Conner, V. L. Cory and H. B. Parks spent several days of September in the Big Thicket area. The observations made at that time, together with those made on former trips to the eastern part of the state, made possible the very detailed plant list given for the greater Big Thicket area. While much of the other lists is the work of the writers, these lists have been accredited to those who have made more complete studies of this section. Proper credit is given with each list to those who have contributed to that particular list. The lists presented have the forms used by the authorities for that particular group. As these are of interest to investigators along special lines little attempt has been made to reduce them to a common form. The writers are indebted to Director A. B. Conner for his co-operation in this project; to R. E. Jackson, Dr. Don O. Baird, and Dr. S. R. Warner, for their aid; to Mrs. Bruce Reid, Port Arthur, Mrs. J. L. Hooks, Beaumont, and P. A. Winkler, Beaumont, for the use of their data and for transportation to many points of interest within the Thicket itself; and to many others. The writers express their thanks to all who have contributed to this report and hope that it will be of aid in securing the preservation of a portion of the Big Thicket for the future.

H. B. PARKS,

V. L. CORY.

INTRODUCTION

There are in Texas three areas the descriptions of which remind one of the Atlantis. The ideas as to their extent and topography are extremely nebulous. confines of these territories change with the author. The vastness of their acreage dwindled with the years until at last they become like Atlantis, mythological cou lost in folk-lore.

The first of these is the Llano Estacado. As late as 1850 this area was a blotch in the southwestern part of the map of the United States with Fort Worth its eastern border. From that time until now this area has wandered over West and at the present time the name alone exists. Where once were thousands of sand blown prairie dotted here and there by the estacado of the yucca plant, and great herds of buffalo and antelope roamed the plains, today are well kept ranches and beautiful farms. Populous cities connected by improved roads are now the r over which hovers the mirage of the limitless plain, the cavalcade of the Spanish quistadores and the ghost herd of vanished buffalo.

The second is the Mustang Desert, a location the borders of which were vague than those of the Llano Estacado. It was somewhere south of San Antonio, a covered with low brush extending for illimitable distances and on this terrain thou of wild mustangs roamed throughout the year. Its boundaries contracted and a as 1875 a map shows sections of McMullen, La Salle, Webb, and Duval as being location of this desert. Today the Mustang Desert has passed into tradition. Its tion cannot be found and where it was said to exist are now some of the most fr farms, ranches, and oil wells of Texas.

The third is the Big Thicket. Just who first made reference to it is unknown Spanish Padres in visiting the Missions in the Nacogdoches country record that be the Missions and the sea there existed a forest so thick that it was impossible t verse it even afoot and that the Indians in traveling from the Missions to the sea by canoe as there were no trails by land. This area, one of the most favored plac plant growth, made a great impression on the early travelers in southeast Texas. described it as the impenetrable wood which stopped them if they traveled inland t the Gulf prairie. The early migrants from the States, seeking new homes in the S west, traveled south through East Texas until they reached the northern bounde the Big Thicket and followed its northern boundaries toward the southwest; thus w aged Nacogdoches-San Antonio trail established. Within the vastness of this pri forest the Indians found a safe refuge from both Spanish and English-speaking ples. Here, too, the larger wild animals could live unmolested; thus an area more one hundred miles long and about fifty miles wide became the location for innu folk-lore stories, most of them based on fact. During the various forerunners Texas Revolution many of those who found themselves outnumbered in an atten set up independencies, found refuge along with the remnant of the aborigines with confines of the Big Thicket. It was to the Big Thicket that the Texas revoluti had planned to go had not the zeal and patriotism of the small army of the Lone brought to a triumphant close that revolution.

The earliest reference to the Big Thicket describes it as being all of Texas e the Brazos River. By the time of the Revolution its boundaries were yet wide The Thicket was said to extend from Lake Caddo to Lake Sabine and west t Brazos River. Within its protecting confines whole nations of aborigines, rer whites, and run-away blacks were said to exist.

Agriculture pressed in on this area from all sides and the demand for bu material cut roads through and through the very depths of this place of m Thousands of miles of telephone lines, of railroad ties, and buildings innumerable taken from the depths of this forest, yet today even though man has taken muc the Big Thicket, it still covers an immense territory. Some places, it is true, the gaps wherein grow magnificent crops of corn and cotton. There are bald hills once stately pines stood triumphant, but the Big Thicket still exists and still for those who wish to see nature untouched by man, mile after mile, where neith ax nor plow has taken either the forest or the sod.

There still exist vast strips of virgin forest protecting a ground cover of s

protect many forms of vegetable life which are worth many a day's travel just to look upon.

Within this forest is found the last home of birds that are nearing extinction. It is the home of the sorry remnant of the large mammals that once inhabited the unbroken forest of East Texas. As civilization has advanced on all of the sides of this place, unconsciously, all forms of life have migrated here, and here, because of the wonderful adaptability of the soil for plant growth, have found protection. It is safe to say that within the area of the Big Thicket there are more species of plants, birds, mammals, insects, and in fact all forms of life that can be found in any area in Texas of similar extent.

The question now comes, is the Big Thicket to pass into legend as have the other areas, or is this area to be protected and made available to those who enjoy the study of animate nature; who enjoy the beauty of the primeval forest with its age old trees, its undergrowth of flowering shrubs, the delicately colored flowers and moss ground cover that bespeaks an age in making; who enjoy to study the wood warblers as high in the forest ceiling they call as they seek their food among the tree tops, or listen to the call of some of the large birds who far away are employed in nest building; who enjoy to seek out the mammals of such a place and become acquainted with them from the tiny shrew to the huge black bear; who enjoy a long quiet day in the thick shade along the banks of the creek attempting to lure from its water a selection of choice fish or enjoy in the fall of the year to garner the various kinds of fruits and nuts that grow within the Thicket, and as winter comes, perchance bring from among the numerous inhabitants of the Thicket a whitetail deer, as the prize of a long day's hunt.

Already the question has answered itself and already the thinking people of Texas and of the Nation have decreed that the Big Thicket must be protected. However, to do this requires the co-operation of the Nation. To interest those who can aid in this matter, a few influential and well informed citizens of the State of Texas have banded themselves together to see that this area is to be protected and yet is to be made available to those who can use it to their advantage. In order to show the richness of the flora and fauna of this section, to show the advantages of the territory as a place for the study of many forms of life, and to show the value of the perpetuation of the forest to those who are looking for a continuous supply of timber in the future, the following lists of organisms have been compiled. It is the hope of those who desire not only to perpetuate the Big Thicket and to keep it as a home for those organisms which have so long lived here that the information which has been gathered as to what actually lives within the territory will excite sufficient interest in this area that all of its present population of living things not only will continue to find refuge here but that other organisms, both animal and plant, will find a place here when they have been driven from elsewhere where they too can enjoy life and freedom from extinction.

GEO-MORPHOLOGY

The Big Thicket is a natural life zone. Geologically its northern border was the last shore line of the Pliocene Age, its entire area is ~~Pliocene~~. Its southern boundary undoubtedly was the shore line of the Gulf of Mexico during the transgression of the Gulf at the end of that interglacial period which preceded the one in which we are now living. Its western boundary is the bluff line of the ancestral Brazos River. Geographically the southern boundary corresponds to Highway Number 3, Orange to Houston; the western boundary Highway Number 19 from Houston to Huntsville, and the northern boundary Highway Number 45 from Huntsville to Weirgate. The average altitude of the Big Thicket is about one hundred feet. It is a plain traversed by the Sabine, Neches, Angelina, Trinity Rivers, and their numerous tributaries. The soil is mostly sandy. Water can be had anywhere at a depth of not more than twenty feet. Because of its nearness to the Gulf, its heavy forest cover, and the enormous amount of water stored within its soils, this section has a most even climate. Many years frosts never invade its vastness. Droughts are almost unknown. The only severity of climate is the Gulf storm. Several of these, in times before history, have cut great lines through this area. Because of the wonderful adaptability to plant growth, such scars are soon healed and records of these storms appear as peculiarly shaped ridges all running one direction. However, when the moss and leaves are removed, the ridge is found to be an immense log, a veteran of a forest that preceded the present one and was laid low by some ancient Gulf storm. Care must be taken not to confuse the Big Thicket, a natural life area, with the Big Thicket an established area, or the Big Thicket the pro-

BOTANICAL REPORT ON THE BIG THICKET AREA OF TEXAS

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The Big Thicket of Texas is a temperate zone mesophytic jungle. There are numerous small areas of similar vegetation scattered throughout the flatwoods of Southern United States which are known as hammock land vegetation.

The Big Thicket area differs from others in being much more extensive, covering approximately a million acres, and in being little disturbed as yet by devastating lumbering operations and clearing for farms. The timber that has been harvested the past has been mainly pine, and that remaining is largely the original growth magnolia, white oak, gums, and other shade tolerant hardwoods.

It would be an irreparable loss to posterity to permit in the near future a great marketing of this magnificent magnolia-gum-white oak forest that has taken per a thousand years to develop and would probably require another thousand years to turn such a stand. There are at present several hundred thousand merchantable nolia trees and millions of other original hardwoods and a considerable number of loblolly pine. Magnolia seems to show little reproduction. In those areas from which it has been removed there is almost none at present. This is attributed to the brood of cattle.

The earliest lumbering operations were carried on in the southern part of the region contiguous to the Santa Fe Railroad and were apparently less drastic than of the past twenty years, as only the pine and choicer oaks were removed. The western part of the area which was cut once during a period from 25 to 10 years shows few large trees, but it has a dense stand of young trees, loblolly pine predominating, but containing a good percentage of young oaks and gums.

The Big Thicket forest offers the United States government an exceptionally investment on a forestry basis aside from its game and recreational values. The no region in the South where the annual increment per acre in tree growth is so high. Here is found a combination of topography, soil and moisture conditions that is to this end. The richness of the woody species and the denseness of their stands truly phenomenal. A judicious selective thinning and marketing of the older trees and a twenty year wait on the younger stands would yield a financial return many times the present market value of the land. An early acquisition of the property is desirable because the present price is an advantageous one for the government because negotiations are pending for the sale of all hardwood. If the hardwood removed, the nature of this forest will be radically changed and its value lessened for game, recreation, and for productive forest management.

REMARKABLE GAME CAPACITY

The game capacity is as remarkable as its timber productiveness. The heavy production from the oaks, magnolia, beech, maple, gum, tupelo, holly, dogwood, l hawthorn, hickory, pecan, persimmon, chinquapin, huckleberry, viburnum, buck red bay, plum, French mulberry, mulberry, grape, Virginia creeper, pawpaw, s and supple-jack assures a food supply for many species of wildlife. The dense growth of evergreens which gives the thicket its character is probably of great portance as it furnishes cover at all seasons as well as a winter browse during critical months. There is an abundance of the following: Sweetleaf, smilax, re water oak, long moss, wax myrtle, youpon, holly, and pine throughout the area; near the streams there is much switch cane, dwarf palmetto, long moss, early haw and mayhaw. Herbaceous plants occur throughout the area. Andropogon grass, sedges occur in the open glades where poorly aerated soils exist. In the shade forest there is considerable spike grass (*Uniola laxa*), sedges (*Carex*), and grasses.

The fact that this area is within 50 miles of both Houston and Beaumont it a nearby hunting ground and recreation area for at least 1,000,000 citizen justifies the preference of this area over many others as a game preserve.



LARRY JEAN FISHER
Official Photographer

THE MAMMALS OF THE BIG THICKET

This list should perhaps include Man as within the boundaries of the proposed greater Big Thicket preserve exists a village of the original Americans who have habited this section since long before the coming of the white man to this continent. The list given is based on "The Biological Survey of Texas" by Vernon Bailey. The form of this list and sequence of species has been taken from "A List of North American Recent Mammals" by G. S. Miller. Additions were made from "A Check List of the Mammals of Texas Exclusive of the Sirenia and Cetacea" by J. K. Strecker. Additions and corrections have been made by A. J. Kirn, biologist, Somerset, Texas, Dr. Walter P. Taylor, Senior Biologist, Texas Cooperative Wildlife Service. This is in no way complete and this section offers excellent opportunity for research. Compared with the other sections of the state this area should furnish many additional species of small mammals, especially mice and shrews. An interesting line of investigation in this section would be a history of recently extinct animals of the section. Much information is yet at hand as to animals which once existed in this territory are now absent.

THE MAMMALS OF THE BIG THICKET

Class Mammalia

ORDER MARSUPIALIA

(Pouched Mammals)

Family Didelphidae
(Opossums)

Didelphis virginiana pigra Bangs
Florida Opossum

ORDER INSECTIVORA

(Insect-eating Animals)

Family Talpidae
(Moles)

Scalopus aquaticus pulcher Jackson
Arkansas Mole

Family Soricidae
(Shrews)

Cryptotis parva Say
Least Short-tailed Shrew
Blarina brevicauda carolinensis Bachman
Carolina Short-tailed Shrew

ORDER CHIROPTERA

Family Vespertilionidae
(Bats)

Pipistrellus subflavus subflavus F. Cuvier
Georgian Bat
Eptesicus fuscus fuscus Beauvois
Large Brown Bat
Nycteris borealis borealis Miller
Red Bat
Nycteris borealis seminola Rhoads
Florida Red Bat
Nycticeius humeralis Rafinesque
Evening Bat

ORDER CARNIVORA
(Flesh-eaters)

Family Ursidae
(Bears)

Euarctos luteolus Griffith
Louisiana Bear

Family Procyonidae
(Raccoons)

Procyon lotor lotor Linnaeus
Raccoon, Coon

Family Bassariscidae
(Civet Cats)

Bassariscus astutus flavus Rhoads
Texas Civet Cat, Cacomistle

Family Mustelidae
(Martens, Weasels, Minks, Otters, Skunks, etc.)

Mustela vison mink Peale & Beauvois
Mink

Lutra canadensis lataxina F. Cuvier
Otter

Spilogale indianola Merriam
Gulf Spotted Skunk

Mephitis mesomelas mesomelas Lichtenstein
Louisiana Skunk

Conepatus mesoleucus telmalestes Bailey
White-backed Skunk

Family Canidae
(Foxes, Wolves, Dogs)

Vulpes fulva Desmarest
Red Fox

Urocyon cinereo argenteus floridanus Rhoads
Florida Gray Fox

Canis floridanus Miller
Florida Wolf

Family Felidae
(Cats)

Felis hernandesii hernandesii Gray
Jaguar, Mexican Tiger

Felis pardalis griffithii Fischer
Mexican Ocelot, Leopard Cat

Felis arundivaga Hollister
Louisiana Cougar

Lynx rufus texensis Allen
Texas Bobcat

ORDER RODENTIA
(Gnawers)

Family Sciuridae
(Squirrels)

Sciurus carolinensis carolinensis Gmelin
Gray Squirrel

Sciurus niger rufiventer Geoffroy
Western Fox Squirrel

Glaucomys volens texensis Howell
Texas Flying Squirrel

Family Geomyidae
(Pocket Gophers)

Geomys breviceps breviceps Baird
Louisiana Pocket Gopher

Family Heteromyidae
(Pocket Rats and Mice)

Perognathus hispidus hispidus Baird
Hispid Pocket Mouse

Family Castoridae
(Beavers)

Castor canadensis texensis Bailey
Texas Beaver

Family Cricetidae
(Rats, Mice, and Voles)

Reithrodontomys humulis merriami Allen
Merriam Harvest Mouse

Reithrodontomys fulvescens aurantius Allen
Louisiana Harvest Mouse

Baiomys taylori subater Bailey
Dusky Baiomys

Peromyscus leucopus texanus Woodhouse
Whitefoot Mouse

Peromyscus gossypinus megacephalus Rhoads
Pine Woods Mouse

Oryzomys palustris texensis Allen
Texas Rice Rat

Sigmodon hispidus texianus Audubon & Bachman
Texas Cotton Rat

Neotoma floridana rubia Bangs
Swamp Wood Rat, Ruddy Wood Rat

Neotoma florida attwateri Mearns
Attwater Wood Rat

Microtus ludovicianus Bailey
Louisiana Vole

Ondatra rivalicia Bangs
Muskrat

Family Muridae
(Old World Rats and Mice)

Rattus norvegicus Erxleben
Wharf Rat, Norway Rat

Mus musculus musculus Linnaeus
House Mouse

ORDER LAGOMORPHA

Family Leporidae
(Hares and Rabbits)

Sylvilagus floridanus alacer Bangs
Oklahoma Cottontail

Sylvilagus aquaticus aquaticus Bachman
Swamp Rabbit

ORDER ARTIODACTYLA
(Even-toed Ungulates)

Family Cervidae
(Deer)

Odocoileus texanus Mearns
Texas Whitetail Deer

ORDER XENARTHRA

Family Dasypodidae
(Sloths, Ant-eaters, Armadillos)

Dasypus novemcinctus mexicanus Peters

THE BIRDS OF THE BIG THICKET

"The Birds of Texas" by J. K. Strecker furnished the preliminary list upon which the one now presented was built. It is probable that a majority of birds which occur in the Big Thicket are represented in this list. For the benefit of the student of bird life it is to be said that this part of Texas offers a wonderful opportunity for study as it represents one of the great gathering places on the Gulf coast for the migratory birds. In the spring of the year it is the home of countless warblers and other small migrants, a goodly number of which spend the summer here. This section also contains colonies of the rarest birds in the United States. Mrs. Bruce Reid of Port Arthur, who is perhaps the best informed student of bird life in southeast Texas, and knows more about the avian fauna of the Big Thicket than any other person, believes this area to be of the greatest value to bird life in the State and that in it are found colonies of birds either thought to be extinct or to be of very rare occurrence. The deficiency in the number of water and shore birds in the list is due to the fact that while these birds may pass over this area almost daily the value of this area to them is very little. This has reference especially to gulls and terns which can be seen flying over this area at any time yet never alight within its boundaries. The small number of migrants and winter residents given is due to the lack of published observations made in this section.

BIRDS OF THE BIG THICKET

RESIDENT BIRDS

Podilymbus podiceps
Anhinga anhinga
Aix sponsa
Mycteria americana
Florida coerulea
Butorides virescens
Oxyechus vociferus
Colinus virginianus
Meleagris gallopavo silvestris
Zenaidura macroura carolinensis
Columbigallina passerina Terrestis
Cathartes aura septentrionalis
Buteo borealis harlani
Buteo lineatus alleni
Falco sparverius
Syrnium varia alleni
Syrnium varium helveolum
Birbo virginianus
Megascops asio
Ceryle alcyon
Dryobates villosus auduboni
Dryobates pubescens
Dryobates borealis
Ceophoeus pileatus
Melanerpes erythrocephalus
Centurus carolinus
Colaptes auratus
Cyanocitta cristata
Corvus brachyrhynchus
Molothrus ater
Quiscalus quiscula aenus
Spizella socialis
Peucaea aestivalis bachmanii
Cardinalis cardinalis
Passer domesticus
Vireo noveboracensis
Mimus polyglottos
Galeoscoptes carolinensis
Thryothorus ludovicianus
Sitta pusilla
Baeolophus bicolor
Penthestes carolinensis agilis

Pied-billed Grebe
 Snake bird, darter
 Wood duck
 Wood Ibis
 Little Blue Heron
 Green Heron
 Killdeer
 Bobwhite, quail
 Wild Turkey
 Mourning Dove
 Ground Dove
 Turkey Buzzard
 Harlan Hawk
 Florida Redshoulder Hawk
 American Sparrow Hawk
 Florida Barred Owl
 Texas Barred Owl
 Great Horned Owl
 Screech Owl
 Belted Kingfisher
 Southern Hairy Woodpecker
 Southern Downy Woodpecker
 Redcockaded Woodpecker
 Pileated Woodpecker
 Redheaded Woodpecker
 Redbelly Woodpecker
 Southern Flicker
 Blue Jay
 Crow
 Cowbird
 Bronzed Grackle
 Chipping Sparrow
 Bachman's Sparrow
 Red Bird
 English Sparrow
 White-eyed Vireo
 Mocking Bird
 Cat Bird
 Carolina Wren
 Brownhead Titmouse
 Whitebreast Titmouse
 Texas Chickadee

POSSIBLE RESIDENTS

Egretta candidissima
Elanoides forficatus
Campephilus principalis

Snowy Heron
 Swallowtail Kite
 Ivory-billed Woodpe

SUMMER RESIDENTS

Ixobrychus lentiginosus
Coccyzus americanus
Antrostomus carolinensis
Chordeiles scutipennis Texensis
Archilocus colubris
Muscivora forficata
Tyrannus tyrannus
Myiarchus cinerascens
Sayornis phoebe
Myrochanes virens
Empidonax virescens
Empidonax minimus
Icterus spurius
Icterus galbula
Piranga rubra
Progne subis
Vireo olivacea
Vireo gilva
Vireo flavifrons
Protonotaria citrea
Compsothlypis americana ramalinae
Dendroica aestiva
Dendroica dominica albilora
Dendroica virens
Guiraca caerulea
Seiurus motacilla
Oporornis formosa
Icteria virens
Polioptila caerulea
Hylocichla ustulata

American Bittern
 Yellowbill Cuckoo
 Chuck-Wills-Widow
 Texas Nighthawk
 Rubythroat Hummer
 Scissortail Flycatcher
 Kingbird
 Crested Flycatcher
 Phoebe
 Wood Pewee
 Greencrest Flycatcher
 Least Flycatcher
 Orchard Oriole
 Baltimore Oriole
 Summer Tanager
 Purple Martin
 Redeye Vireo
 Warbling Vireo
 Yellowthroat Vireo
 Protonotary Warbler
 Western Parula Warbler
 Yellow Warbler
 Sycamore Warbler
 Pine Warbler
 Blue Grosbeak
 Water Thrush
 Kentucky Warbler
 Yellowbreast Chat
 Bluegray Gnatcatcher
 Wood Thrush

POSSIBLE SUMMER RESIDENTS

Herodias egretta

American Egret

WINTER RESIDENTS

Nycticorax nycticorax naevius
Nyctanassa violacea
Porzana sora
Philohela minor
Asio flammeus
Sturnella magna
Euphagus carolinus
Spinus pinus
Pooecetes gramineus
Passerculus sandwichensis savaana
Junco hyemalis
Passerella iliaca
Pipilo erythrophthalmus
Dendroica coronata
Toxostoma rufum
Thryomanes bewickii
Troglodytes aldon
Certhia familiaris americana
Sitta canadensis
Planesticus migratorius

Blackcrown Heron
 Yellowcrown Night
 Sora
 American Woodcock
 Shortear Owl
 Meadowlark
 Rusty Blackbird
 Pine Siskin
 Vesper Sparrow
 Savannah Sparrow
 Slatecolor Junco
 Foxcolored Sparrow
 Towee, Chewink
 Myrtle Warbler
 Brown Thrasher
 Bewick's Wren
 House Wren
 Brown Creeper
 Redbreast Nuthatch
 American Robin

FALL AND SPRING MIGRANTS

Coccyzus erythrophthalmus
Sphyrapicus varius
Antrostomus vociferus
Chordeiles virginiana
Chaetura pelagica

Blackbill Cuckoo
 Yellowbelly Sapsucker
 Whip-poor-will
 Nighthawk
 Chimney Swift

<i>lichonyx oryzivorus</i>	Bobolink
<i>relaius phoeniceus</i>	Redwing Blackbird
<i>erulus gaibula</i>	Baltimore Oriole
<i>ranga erythromelas</i>	Scarlet Tanager
<i>lmynthophila pinus</i>	Bluewing Warbler
<i>lmynthophila chrysoptera</i>	Goldenwing Warbler
<i>lmynthophila rubricophilla</i>	Nashville Warbler
<i>lmynthophila celata</i>	Orangecrown Warbler
<i>lmynthophila peregrina</i>	Tennessee Warbler
<i>ndroica coerulescens</i>	Blackthroat Blue Warbler
<i>ndroica magnolia</i>	Magnolia Warbler
<i>ndroica virens</i>	Blackthroat Green Warbler
<i>iurus motacilla</i>	Louisiana Water Thrush
<i>tophoga ruticilla</i>	Redstart
<i>gulus calendula</i>	Rubycrown Kinglet

REPTILES AND AMPHIBIANS

The list here presented is given in the form used by Stejneger and Barbour in "A Check List of Reptilia and Amphibia of North America" and is a composite of the list compiled by J. K. Strecker, A. J. Kirn, Mrs. E. M. Reid, W. L. Smith, and others. The list is far from complete and doubtless contains species which do not occur in the Big Thicket. This group of organisms presents a most interesting field for investigation.

REPTILIA (Class)	
LORICATA (Order)	
Crocodylidae (Family)	
<i>Alligator mississippiensis</i> (Daudin)	Alligator
SQUAMATA (Order)	
SAURIA (Suborder)	
Iguanidae (Family)	
<i>anolis carolinensis</i> (Voigt)	Chameleon, Green Lizard
<i>rhynchosoma corautum</i> (Harlan)	Horned Toad
<i>celaporus consobrinus consobrinus</i> (Baird and Girard)	Marcy's Lizard
<i>celaporus spinosus floridanus</i> (Baird)	
<i>celaporus undulatus undulatus</i> (Latreille)	Pine Lizard
Anguidae (Family)	
<i>phisaurus ventralis</i> (Linne)	Glass or Joint Snake
Teiidae (Family)	
<i>nemidophorus sexlineatus</i> (Linne)	Striped Racehorse Lizard
Scincidae (Family)	
<i>umeces fasciatus</i> (Linne)	Bluetailed Skink, Redhead Skink
<i>umeces laticeps</i> (Schneider)	
<i>leiolopisma laterale</i> (Say)	Ground Lizard, Brown Lizard
SERPENTES (Suborder)	
Leptotyphlopidae (Family)	
<i>leptotyphlops dulcis</i> (Baird & Girard)	Blind Snake
Colubridae (Family)	
<i>carphophis amoena vermis</i> (Kennicott)	Worm Snake
<i>oluber constrictor flaviventris</i> (Say)	Blue Racer
<i>oluber constrictor constrictor</i> (Linne)	Black Snake
<i>diadophis punctatus strictogenys</i> (Cope)	Ringneck Snake
<i>rymarchon corais couperi</i> (Holbrook)	Indigo Snake

<i>Elaphe lacta</i> (Baird & Girard)	Spotted Chicken Snake
<i>Farancia abacura</i> (Hallowell)	Mud or Horn Snake
<i>Heterodon eontortris</i> (Linne)	Puff or Spreading Adder
<i>Heterodon maseius</i> (Baird & Girard)	Texas Spreading Adder
<i>Lampropeltis calligaster</i> (Harlan)	Yellow-bellied King Snake
<i>Lampropeltis getulus holbrooki</i> (Stejneger)	Speckled King Snake
<i>Lampropeltis triangulum amaura</i> (Cope)	Scarlet King Snake
<i>Masticophis flagellum flagellum</i> (Shaw)	Coach Whip
<i>Natrix fasciata fasciata</i> (Linne)	Southern Water Snake
<i>Natrix fasciata confluens</i> (Blanchard)	Water Snake
<i>Natrix grahami</i> (Baird & Girard)	Girard's Water Snake
<i>Natrix rhombifera</i> (Hallowell)	Diamond Back Water Snake
<i>Natrix taxispilota</i> (Holbrook)	Water Pilot
<i>Natrix transversa</i> (Hallowell)	Hallowell's Water Snake
<i>Ophedrys aestivus</i> (Linne)	Rough Green Snake
<i>Pituophis sayi sayi</i> (Schlegel)	Bull Snake
<i>Potamophis striatulus</i> (Linne)	Brown Snake
<i>Storeria dekayi</i> (Holbrook)	Dekay's Snake
<i>Tantilla gracilis</i> (Baird & Girard)	Sand Snake
<i>Thamnophis marianus</i> (Baird & Girard)	Marcy's Garter Snake
<i>Thamnophis sauritus proximus</i> (Say)	
<i>Thamnophis sirtalis sirtalis</i> (Linne)	Garter Snake
<i>Tropidoclonion lineatum</i> (Hallowell)	Lined Snake
<i>Virginia valeriae elegans</i> (Kennicott)	Virginia Red Snake
Elapidae (Family)	
<i>Micrurus fulvius</i> (Linne)	Coral Snake, Harlequin Snake
Crotalidae (Family)	
<i>Agkistrodon mokasen</i> (Beauvois)	Copperhead
<i>Agkistrodon piscivorus</i> (Lacépède)	Cottonmouth Moccasin
<i>Crotalus horridus atricaudatus</i> (Latreille)	Canebrake Rattler
<i>Crotalus horridus horridus</i> (Linne)	Timber Rattlesnake
<i>Sistrurus miliaris miliaris</i> (Linne)	Ground Rattler
<i>Sistrurus miliaris streckeri</i> (Gloyd)	Strecker's Ground Rattler
SYNAPSIDA (Subclass)	
TESTUDINATA (Order)	
Kinosternidae (Family)	
<i>Kinosternon flavescens</i> (Agassiz)	Yellow Mud Turtle
<i>Kinosternon subrubrum hippocrepis</i> (Gray)	Louisiana Mud Turtle
<i>Sternotherus carinatus</i> (Gray)	Keeled Mud Turtle
<i>Sternotherus odoratus</i> (Latreille)	Southern Musk Turtle
Chelydridae (Family)	
<i>Chelydra serpentina</i> (Linne)	Common Snapper
<i>Macrochelys temminckii</i> (Gray)	Alligator Snapper
Testudinidae (Family)	
<i>Gopherus polyphemus</i> (Daudin)	Gopher Tortoise
<i>Graptemys pseudogeographica kohnii</i> (Baur)	
<i>Pseudemys elegans</i> (Wied)	Cumberland Terrapin
<i>Pseudemys texana</i> (Baur)	Texas Terrapin
<i>Terrapene major</i> (Agassiz)	
<i>Terrapene ornata</i> (Agassiz)	Painted Box Tortoise
<i>Terrapene triungis</i> (Agassiz)	Three-toed Box Tortoise
Trionychidea (Family)	

THE AMPHIBIANS OF THE BIG THICKET

Class Amphibia

ORDER CAUDATA

Family Salamandridae

Ambystoma viridescens viridescens Rafinesque
Common Newt (aquatic form); Red Eft (terrestrial form)
Ambystoma meridionalis Cope
Texas Newt

Family Ambystomidae

Ambystoma maculatum Shaw
Spotted Salamander
Ambystoma opacum Grovenhorst
Marbled Salamander
Ambystoma texanum Matthes
Texas Salamander
Ambystoma tigrinum Green
Tiger Salamander

Family Plethodontidae

Plethodon glutinosus Green
Slimy Salamander

Family Sirenidae

Amphiuma lacertina Linnae
Mud Eel

ORDER SALIENTIA

Family Scaphiropodidae

Scaphiopus holbrookii holbrookii Hallowell
Spadefoot

Family Bufonidae

Bufo americanus americanus Holbrook
American Toad
Bufo fowleri German
Fowler's Toad
Bufo valliceps Wiegmann
Nebulous Toad

Family Hylidae

Hyla gryllus Le Conte
Cricket Frog
Hyla arenicolor Baird
Striped Tree Frog
Hyla arenicolor Streckeri Wright & Wright
Texas Ornate Chorus Frog
Hyla cinerea cinerea Schneider
Green Tree Frog
Hyla femoralis Latreille
Pine Woods Tree Frog
Hyla squirella Latreille
Southern Tree Frog
Hyla versicolor versicolor Le Conte
Tree-toad, Rain-toad
Hyla versicolor chrysoscelis Cope
Cope's Tree Frog

Family Ranidae

Rana areolata Baird and Girard
Texas Gopher Frog
Rana catesbeiana Shaw
Bull Frog
Rana sphenoccephala Cope
Southern Leopard Frog

Family Brevicipitidae

Pseudacris areolata Strecker
Pseudacris carolinensis Holbrook
Narrowmouth Toad
Pseudacris texensis Girard

FISH OF THE BIG THICKET

The terrain of the Big Thicket being an almost level plain of goodly dimensions crossed by the Sabine, Neches, Angelina, Trinity and San Jacinto Rivers and dissected by the tributaries of these rivers presents a condition where numerous species of fish are to be found. The list given was taken from "The Fishes of Texas and the Rio Grande Basin" by Evermann and Kendall. No other list can be found that makes special reference to fishes that have been collected within the confines of the Thicket. Because of the numerous waterways, the excellent cover, and little pollution of these streams, it is known that the list given contains only a minority of species. This list was corrected and added to by Dr. Hal B. Parks, Stephen F. Austin State Teachers College, Nacogdoches, Texas.

THE FISH OF THE BIG THICKET

Class Pisces

Family Siluridae

(Catfishes)

Noturus nocturnus Jordan & Gilbert
Leptopoma olivaris (Raf.)
Yellow Cat, Mud Cat
Ameiurus melas (Raf.)
Bullhead, Eel Cat
Ictalurus punctatus (Raf.)
Channel Cat
Ictalurus furcatus (Cuvier & Valenciennes)

Family Catostomidae

(Suckers)

Ictiobus bubalus (Raf.)
Carpionodes carpio (Raf.)
Garp Sucker
Erimyzon sucetta (Lac.)
Creek Sucker
Minytrema melanops (Raf.)
Striped Sucker
Moxostoma poecilurum Jordan

Family Cyprinidae

(Minnows)

Campestris anomalum (Raf.)
Stone-roller
Hybognathus nuchalis Agassiz
Cochlognathus ornatus B. & G.
Channa argus (B. & G.)
Notropis nux Evermann
Notropis sabiniae J. & G.
Notropis nocomis Evermann
Notropis lutrensis (B. & G.)
Notropis venustus (Grd.)
Notropis texanus (Grd.)
Notropis dilectus (Grd.)
Notropis notemigonioides Evermann
Phenacobius mirabilis (Grd.)
Opsopoeodus oscula Evermann
Notemigonus chrysolaucus (Mitchill)

Family Clupeidae

(Herring)

Dorosoma cepedianum (Le S.)
Gizzard Shad

Family Cyprinodontidae

Zygogobius notatus (Raf.)
Top Minnow
Zygogobius escambiae Bollman
Gambusia affinis (B. & G.)

Family Esocidae

(Pike)

Lucius vermiculatus (Le S.)
Little Pickerel

Family Atherinidae

(Silversides)

Labidesthes sicculus (Cope)

Family Aphredoderidae

(Pirate Perch)

Aphredoderus sayanus (Gilliams)
Pirate Perch

Family Centrarchidae

(Sunfish)

Pomoxis annularis Raf.
Crappie
Pomoxis sparoides (Lac.)
Calico Bass
Chaenobryttus gulosus (C. & V.)
Goggle-eye
Lepomis cyanellus Raf.
Blue-spotted Sunfish
Lepomis megalotis (Raf.)
Long-eared Sunfish
Lepomis humilis (Grd.)
Red-spotted Sunfish
Lepomis pallidus (Mitchill)
Blue Sunfish
Micropogonias salmoides (Lac.)
Big mouthed Black Bass

Family Percidae

(Darters)

Amniostoma pellucidum clarum (Jordan & Meek)
Amniostoma darter
Amniostoma vivax (Hay)
Amniostoma phlox (Cope)
Amniostoma chlorosoma (Hay)
Amniostoma caprodes (Raf.)
Amniostoma Perch
Amniostoma scierum serrula (J. & G.)
Amniostoma jessiae (Jordan & Brayton)
Amniostoma fusiforme (Grd.)

Family Serranidae

(Sea Bass)

Amniostoma interrupta Gill
 Yellow Bass

Family Sciaenidae

(Croakers)

Amniostoma grunniens Raf.
 Fresh-water Drum

ARACHNIDA-INSECTA-CRUSTACEA

These three large divisions of the animal kingdom have large populations in this area, yet definite references to the species occurring are so few that no list could be compiled.

ARACHNIDA: the spiders and their allies are found in their greatest number in this section where warmth, shade, and moisture occur. The few observations made on this group would indicate that this group probably has as great a number of species as is contained in any of the lists that are presented yet there is not a single reference so far as is to be found as to a species which definitely occurs within this area.

INSECTA: it is safe to say from observations made and from the knowledge of the distribution of widely disseminated species that within this area there are probably many species of insects. The few observations made would indicate that flies, moths, bees, wasps, and beetles are extremely common. The definite records of insects collected in this part of Texas are so small that they will not be included. The opportunity here presented for the collection of insects is exceptional as the collector can look for new or little known species in quantity through the first year of collecting.

CRUSTACEA: this group which is best known by the common name crawfish is least known of all of the groups of animals. This division contains a large number of organisms beginning with the tiny Cyclops, an almost transparent minute monad which is not uncommon in creek or cistern water and is best known by his resemblance to the crawfish and the fact that it possesses only one eye spot—up to the large land lobster, a crawfish which lives in tunnels along the edge of the water courses and possesses the longest legs of any of this group of animals. Adults sometimes reach a total length of twenty-four inches. It is most probable that there are within the sand almost every variety of fresh water crustacea, thus offering an attractive oppor-

MOLLUSCA

Shells have always attracted the human race. This is true of the aborigines inhabiting the area under discussion, as shells perforated to use as beads and mussel shells to use as hoes have been taken from graves within this area. The water course at the present time contain numerous species of bivalves and on the ground cover an in the deep shade of the forest can be found numerous species of snails. "The Land and Freshwater Snails and the Naiades or Pearly Freshwater Mussels of Texas" by J. K. Strecker furnished the beginning for the list presented. The fact that during the very short time spent within this area in preparing for the making of these lists twenty species of land and fresh water shells were collected without making any special attempt shows the possibilities for collection. The list has been corrected and put into its present form by Dr. Hal B. Parks.

MOLLUSCA

(Shell Fish)

Class Gastropoda

(Land and Water Snails)

Family Helicidae

Polygyra fraterna Say
Polygyra thyroides Say var. *bucculenta* Gould
Polygyra vultuosa Gould
Polygyra vultuosa Gould var. *Copei* Wetherby
Polygyra vultuosa Gould var. *Henriettae* Mazyck

Family Zonitidae

Ventridens intertextus Benny, W. C.
Ventridens demissus W. C. Benny

Family Endodontidae

Anguispira alternata Say

Family Succineidae

Succinea avra Say
Succinea concordialis Gould

Family Lymnaeidae

Galba bulimoides Lea var. *Cockerelli* Pillsbury and Ferriss

Family Planorbidae

Planorbis antrosus Conrad

Family Physidae

Physa heterostropha Say

Family Viviparidae

Campeloma Lewisii Walker

212 Species in State

Class Pelecypoda

(Bivalves)

Family Unionidae

(Fresh Water Mussels)

Anodonta grandis Say
Anodonta Ohienensis Rafinesque
Arcidens confragosa Say
Strophitus subvexus Conrad
Strophitus undulatus Say
Elliptio tetralasmus Say
Elliptio tetralasmus manubius Gould
Quadrula quadrula apiculata Say
Quadrula quadrula var. *aspera* Lea
Quadrula verrucosa Rafinesque
Quadrula pustulosa mortonii Conrad
Quadrula nodulata Rafinesque
Quadrula ridellii Lea
Quadrula flava nasuta Simpson
Quadrula friersoni B. H. Wright
Quadrula undata Chunii Lea
Quadrula askew Marsh
Quadrula lananensis Frierson
Amblema

Amblema plicata perplicata Conrad
Amblema gigantea Barnes
Amblema dombeyana Valenciennes
Obliquaria reflexa Rafinesque
Lampsilis cardium satura Lea
Lampsilis teres Rafinesque
Lampsilis fasciata hydiana Lea
Lampsilis venosa Conrad
Lampsilis subrostrata Say
Lampsilis fragilis Rafinesque
Protera laevis Lea
Protera purpurata Lamarck
Protera amphichaena Frierson
Carunculina para texasensis Lea
Truncilla truncilla Rafinesque
Truncilla donaciformis Lea
Obovaria castanea Lea
Glebulina suborbiculata Lamarck

EAST TEXAS BIG THICKET AREA

PLANTS OF THE BIG THICKET

The Big Thicket area comprises the southern third of Section 1, the Pine Island of the plant areas of the plant list of Cory and Parks. It is common knowledge with the exception of in a few places, plant areas have transitional zones some miles in width with which the plants on each side of a given boundary occur in equal numbers. The more common plants of the Big Thicket are found beyond the northern line of the area especially along the river valleys where like soil and moisture conditions occur, however, on the south side of the Big Thicket area there is an abrupt change from the pine forest to the saline Gulf prairie and but few species of plants have penetrated the pine forest. Neither have the shrubs of the pine forest intruded upon the Gulf prairie. The list given has been compiled from every known source. Almost everyone who has investigated plant life in this section of the area has contributed something to this list. Before it was completed it was submitted to botanical institutions in the East and these have added to or subtracted from until the list now represents plants that exist somewhere within the confines of the Big Thicket as given in the preface to this report and on the map. It is known that other plants occur which are not on this list due to the fact that no specimens were in hand from which to determine the exact species. It is suspected, however, that there will be fewer species of plants added to the plant record than to any of the other lists presented. The list, however, is sufficiently complete to make identification of species easy and to indicate to the collector whether or not he should report upon the collection of a species. Lists by Mrs. Bruce Reid, Mrs. J. L. Hooks, P. A. Winkler, S. Warner, and John Knight of the Big Thicket have added certain records to this list.

Organisms are divided into the animal and plant kingdoms. The animal kingdom has attracted much more attention from students than has the plant. The number of species belonging to the kingdoms are supposed to be approximately the same, however, in the animal kingdom the divisions, with the exception of the one which includes spiders, insects, and the crustaceans, contain but few species while all divisions of the plant kingdom contain a large number of species. The insects and spiders, however, are represented by a sufficient number of species to make the two divisions about equal. As a rule there is little common knowledge relative to the divisions of plant life with the exception of that pertaining to ferns, their allies, and the flowering plants.

The number of species belonging to divisions ranging from the unicellular up to the ferns contains a far greater number of species than do the higher forms of plant life. As humid conditions accompanied by shade are very conducive to growth of the lower forms of plant life and as many of the forms are known to occur abundantly in the Big Thicket attention is called to the following divisions:

PLANTAE

SLIME MOLDS: this is a large and very little known division. The fruiting bodies of the organisms alone attract attention. These appear as small clusters of feathery like objects ranging from yellow through green to black in color and being about one half inch in length. They are found in small colonies of from a dozen to several hundred of these fronds. These may be found on the wood of standing dead trees, decayed logs, or even upon the surface of lichen covered logs. There are no more beautiful objects under a hand lens than the fruiting bodies of these slime molds. It is hoped that some students will investigate the slime molds of the Big Thicket area.

ALGAE: everyone is familiar with the green scum on the surface of the standing water or the long thread-like green mats which are found in running streams. These are representatives of a long series of genera and the species commonly referred to as algae. This form of plant life forms food for such organisms as snails, insects, and even some of the higher species of animals. Because of their great beauty under a microscope, the ease with which they are grown in the laboratory, and the numerous species, algae are favorites for study in the laboratory. There is no information printed relative to the algae population of East Texas.

DIATOMS: a group of microscopic plant-like organisms which occur in colonies somewhat like the coral polyps. They are found in almost every kind of a damp place and are of immense value as food to smaller animals. Like the algae they are a favorite for laboratory study and like algae no investigation has been done in this section of Texas.

FUNGI: fungus to the ordinary person brings up visions of rotting vegetation and of toadstool mushrooms. This great group contains many thousand species. The Big Thicket is by nature a place most suited for the growth of this group.

BIG THICKET
VEGETATION

THICKET

END OF TRAIL

PINE ISLAND
BAYOUGIANT
PALMETTO

This field should attract those who wish an opportunity to make a desirable contrib to science.

LICHENS: the leaf-like plants which are found growing on dead trees and on live plants are quite well known as lichens. This order is of great interest because of the fact that species has no definite shape, however, groups of species so are themselves that specific standing can be given. The group as a whole is extremely interesting from the point that they grow during wet and cold weather and favorite food of snails, birds, insects, and some amphibians. Economically this supplies quite a number of the dye materials in constant use. The litmus of the cloth maker is an extract of these plants. Throughout the year in the Big Thicket there is hardly a tree, rock, or bare piece of ground that does not harbor a species of lichens. While there are several lists of this group of these plants in Texas there is no reference within these to plants collected or occurring in this

HEPATICA: this group of organisms often mistaken for lichens are commonly called liverworts. They differ from the lichens in that the plant has a leaf-like face. On the upper side and along the center of the lower side it develops small like organs. At times it bears fruiting bodies at the tips of the leaf-like divisions. Within the Big Thicket a number of genera of this group occur, most of them found on bare spots of soil. Like the lichens the liverworts are represented in literature by a number of lists from Texas but there are no references in these lists to East Texas.

MUSCI: the concluding group of the lower plants that are of interest is the mosses. The moss plants are very well known. They consist of minute pin-like organisms which during certain times of the year bear at the tip of the pedicel a capsule filled with seed-like materials. The mosses have long been a favorite study of botanists. Many lists have been published containing species collected in Texas. However, there are only a few references to this group of plants which occur in any quantity in the Big Thicket.

The great opportunity offered by these lower forms of plant life for original investigation to supply desired information should be an added incentive to the protection of the Big Thicket in somewhat near its original condition as the removal of forest cover, draining of the swamps, or the heavy pasturing of this section mean the destruction of most of these lower forms of plant life.

PLANTS OF THE BIG THICKET

<i>Adiantum Capillus-Veneris</i> L.	Venus-Hair Fern
<i>Asplenium platyneuron</i> (L.) Oakes	Ebony Spleenwort
<i>Athyrium thelypteroides</i> (Michx.) Desv. (<i>Asplenium acrostichoides</i> Sw.)	
<i>Cheilanthes albamensis</i> (Buckl.) Kunze	Alabama Lipfern
<i>Cheilanthes tomentosa</i> Link	Woolly Lipfern
<i>Dryopteris floridana</i> (Hook.) Kunze	
<i>Dryopteris intermedia</i> (Muhl.) A. Gray	American Shieldfern
<i>Dryopteris noveboracensis</i> (L.) A. Gray	New York Fern
<i>Dryopteris normalis</i> C. Chr. (<i>D. patens</i> Kunze)	
<i>Dryopteris Thelypteris</i> (L.) A. Gray	Marsh Shieldfern
<i>Onoclea sensibilis</i> L.	Sensible Fern
<i>Pellaea atropurpurea</i> (L.) Link	Purple Cliffbrake
<i>Phegopteris hexagonoptera</i> (Michx.) Fee (<i>Thelypteris hexagonoptera</i> Weatherby)	
<i>Polypodium polypodioides</i> (L.) Watt.	Gray Polypody
<i>Polystichum acrostichoides</i> (Michx.) Schott	Christmas Fern
<i>Pteridium latiusculum</i> (Desv.) Hieron., var. <i>pseudocaudatum</i> (Clute) Maxon	
<i>Woodsia obtusa</i> (Spreng.) Torr.	
<i>Woodwardia aerolata</i> (L.) Moore	
<i>Woodwardia virginica</i> (L.) Small	
<i>Osmunda cinnamomea</i> L.	Cinnamon Fern
<i>Osmunda regalis</i> L., var. <i>spectabilis</i> (Willd.) A. Gray	Royal Fern
<i>Botrychium dissectum</i> Spreng., var. <i>tenuifolium</i> (Underw.) Clute	
<i>Ophioglossum Engelmanni</i> Prantl	Cutleaf Grape Fern
<i>Ophioglossum tenerum</i> Mett.	Engelmann's Addertongue
<i>Ophioglossum vulgatum</i> L.	Addertongue

TYPICAL TREES

VIRGIN PINE

COW OAK

OPEN BEECH FOREST

OXEN

Selaginella apus (L.) Spring	Common Selaginella
Selaginella arenicola Underw.	
Selaginella ludoviciana A. Br.	
Selaginella Riddellii Van Eseltine	
Selaginella Sherwoodii Maxon	
Selaginella Wrightii Hieron	Virginia Red Cedar
Juniperus virginiana L.	
Pinus australis Michx. f. (P. palustris Miller)	
Pinus echinata Mill.	
Pinus Taeda L.	
Taxodium distichum (L.) L. C. Rich.	Longleaf Pine
Typha angustifolia L.	Shortleaf Pine
Typha latifolia L.	Leblolly Pine
Potamogeton alpinus Balbis (P. rufescens Schrad.)	Southern Cypress
Potamogeton americanus Cham. & Schlecht	
Potamogeton difersifolius Raf. (P. hybridus Michx.)	
Potamogeton heterophyllus Schreb.	
Potamogeton natans L.	
Echinodorus radicans (Nutt.) Engelm.	Frogbit
Sagittaria cycloptera (J. G. Smith) C. Mohr	
Sagittaria falcata Pursh	
Sagittaria graminea Michx.	
Sagittaria papillosa Buchenau	
Sagittaria platyphylla (Engelm.) J. G. Smith	Red Top
Sagittaria pubescens Muhl.	
Anacharis canadensis (Michx.) Planch	
Limnolobium Spongia (Bosc.) L. C. Rich.	
Agrostis alba L.	
Agrostis perennans (Walt.) Tuckerm.	Autumn Bent Grass
Aira capillaris Host.	
Alopecurus carolinianus Walt.	
Andropogon Elliottii Chapm.	
Andropogon glomeratus (Walt.) BSP	
Andropogon saccharoides Sw.	Hairgrass
Andropogon scoparius Michx. (Schizachyrium villosissimum Nash)	
Andropogon scoparius Michx., var. divergens Hackel	
Andropogon tener (Nees) Kunth	
Andropogon ternarius Michx. (A. argyraeus Schult.)	
Andropogon virginicus L., var. corymbosus (Hack.) Fernald & Griscom	Foxtail
Andropogon virginicus L., var. tenuispatheus (Nash) Fernald & Griscom	
Andropogon virginicus L., var. tetrastachys (Ell.) Hack	
Anthraenania rufa (Ell.) Schult.	
Anthraenania villosa (Michx.) Beauv.	
Anthoxanthum aristatum Boiss.	Elliott's Beardgrass
Anthoxanthum odoratum L.	
Aristida affinis (Schult.) Kunth (A. palustris Vasey)	
Aristida desmantha Trin. & Rupr.	
Aristida intermedia Scribn. & Ball	
Aristida lanosa Muhl. (A. lanata Poir.)	Bushy Beardgrass
Aristida longispica Poir.	
Aristida oligantha Michx.	
Aristida purpurascens Poir., var. minor Vasey	
Aristida ramosissima Engelm.	
Aristida virgata Trin.	Little Blue Stem
Arundinaria gigantea (Walt.) Chapm. (A. macrospora Michx.)	
Arundinaria tecta (Walt.) Muhl.	
Axonopus compressus (Sw.) Beauv.	
Axonopus furcatus (Fleugge) Hitchc.	
Brachiaria ciliatissima (Bruckl.) Chase	Sweet Vernal Grass
Brachiaria extensa Chase (B. platyphylla Nash)	
Brachiaria plantaginea (Link) Hitchc.	
	Arrowfeather
	Southern Cane
	Switch Cane
	Carpet Grass

Bromus commutatus Schrad.	Hairy Chess
Bromus mollis L.	
Bromus purgans L.	
Bromus rigidus Roth	
Bromus secalinus L.	
Cenchrus incertus M. A. Curtis	Soft Chess
Cenchrus pauciflorus Benth.	
Cinna arundinacea L.	
Cynodon Dactylon (L.) Pers.	
Dactyloctenium aegyptium (L.) Richt.	
Danthonia spicata (L.) Beauv.	Canada Brome Grass
Diarrhena americana Beauv.	
Digitaria filiformis (L.) Koel.	
Digitaria filiformis (L.) Koel, var. villosa (Walt.) Fernald	
Digitaria sanguinalis (L.) Scop.	
Digitaria texana Hitchc.	Ripgut Grass
Digitaria violascens Link	
Echinochloa colonum (L.) Link	
Echinochloa crusgalli (L.) Beauv.	
Echinochloa crus-galli var. frumentacea W. F. Wight	
Echinochloa crusgalli (L.) Beauv., var. zelayensis (H. B. K.) Hitchc.	Chess
Echinochloa pungens (Poir.) Rydb.	
Eleusine indica (L.) Gaertn.	
Elymus canadensis L.	
Elymus canadensis L., var. brachystachys (Scribn. & Ball) Farwell	
Elymus villosus Muhl. (E. striatus)	Coast Sandbur
Elymus virginicus L., var. glabriflorus (Vasey) Bush	
Elymus virginicus L., var. australis (Scribn. & Ball) Hitchc.	
Elymus virginicus L., var. intermedius (Vasey) Bush	
Elyonurus tripsacoides Humb. & Bonpl.	
Eragrostis capillaris (L.) Nees	Field Sandbur
Eragrostis ciliaris (All.) Link (E. major Host)	
Eragrostis ciliaris (L.) R. Br.	
Eragrostis diffusa Buekl.	
Eragrostis glomerata (Walt.) L. H. Dewey (E. conferta Trin.)	
Eragrostis hirsuta (Michx.) Nees	Stout Woodreed Grass
Eragrostis hypnoides (Lam.) BSP	
Eragrostis intermedia Hitchc.	
Eragrostis pilosa (L.) Beauv. (E. minor Host)	
Eragrostis poaeoides (L.) Beauv. (E. minor Host)	
Eragrostis refracta (Muhl.) Scribn.	Bermuda Grass
Eragrostis secundiflora Presl. (E. oxylepis Torr.)	
Eragrostis trichodes (Nutt.) Nash	
Erianthus alopecurioides (L.) Ell. (E. divaricatus Hitchc.)	
Erianthus contortus Baldwin	
Erianthus giganteus (Walt.) Muhl. (E. saccharoides Michx.)	Poverty Oatgrass
Erianthus strictus Baldwin	
Eriochloa punctata (L.) Desv.	
Festuca obtusa Spreng. (F. nutans Willd.)	
Festuca octoflora Walt. (F. parviflora Ell.)	
Festuca sciurea Nutt	Crab Grass
Festuca Shortii Kunth	
Glyceria arkansana Fernald	
Glyceria septentrionalis Hitchc.	
Gymnopogon ambiguus (Michx.) BSP	
Holcus lanatus L.	Jungle Rice
Hordeum pusillum Nutt.	
Leersia monandra Sw.	
Leersia oryzoides (L.) Sw.	
	Barnyard Grass
	Goosegrass
	Wild Rye
	Lace Grass
	Stinkgrass
	Plains Love Grass
	India Love Grass
	Silver Plume Grass
	Bent Awn Plume Grass
	Sugarcane Plume
	Nodding Fescue
	Six Weeks Fescue
	Eastern Mannagrass
	Velvet Grass
	Meadow Barley
	Rice Cutgrass

<i>Leptochloa fascicularis</i> (Lam.) A. Gray	
<i>Leptochloa panicoides</i> (Presl.) Hitchc. (<i>L. floribunda</i> Doell.)	
<i>Limnoloba arkansana</i> (Nutt.) L. H. Dewey	
<i>Lolium multiflorum</i> Lam.	Italian Ryegrass
<i>Lolium perenne</i> L.	Perennial Ryegrass
<i>Lolium temulentum</i> L.	
<i>Lolium temulentum</i> L., var. <i>leptochaeton</i> A. Br.	
<i>Manisuris cylindrica</i> (Michx.) Kuntze	
<i>Manisuris rugosa</i> (Nutt.) Kuntze	
<i>Melica mutica</i> Walt. (<i>M. diffusa</i> Pursh)	Two Flower Melic
<i>Muhlenbergia capillaris</i> (Lam.) Trin.	
<i>Muhlenbergia capillaris</i> (Lam.) Trin., var. <i>filipes</i> (M. A. Curtis) Chapm.	
<i>Muhlenbergia expansa</i> (Poir.) Trin. (<i>M. trichopodes</i> Chapm.)	
<i>Muhlenbergia mexicana</i> (L.) Trin.	
<i>Muhlenbergia Schreberi</i> Grmel. (<i>M. diffusa</i> Willd.)	Nimblewill
<i>Muhlenbergia sobolifera</i> (Muhl.) Trin.	
<i>Muhlenbergia sobolifera</i> (Muhl.) Trin., var. <i>setigera</i> Scribn.	
<i>Muhlenbergia sylvatica</i> Torr. (<i>M. umbrosa</i> Scribn.)	
<i>Oplismenus setarius</i> (Lam.) Roem. & Schult.	
<i>Oryzopsis hymenoides</i> (Roem. & Schult.) Ricker (<i>O. cuspidata</i> Benth.)	
<i>Panicum aciculare</i> Desv. (<i>P. arenicola</i> Ashe)	
<i>Panicum agrostoides</i> Spreng.	
<i>Panicum agrostoides</i> Spreng., var. <i>condensum</i> (Nash) Fernald.	
<i>Panicum amarum</i> Ell.	
<i>Panicum anceps</i> Michx. (<i>P. rostratum</i> Muhl.)	
<i>Panicum anceps</i> Michx., var. <i>rhizomatum</i> (Hitchc. & Chase) Fernald	
<i>Panicum angustifolium</i> Ell.	
<i>Panicum arenicoloides</i> Ashe	
<i>Panicum barbulatum</i> Michx.	
<i>Panicum Boscii</i> Poir.	
<i>Panicum brachyanthum</i> Steud. (<i>P. sparsiflorum</i> Vasey)	Witchgrass
<i>Panicum capillare</i> L.	
<i>Panicum chrysopsidifolium</i> Nash	
<i>Panicum clandestinum</i> L.	
<i>Panicum commutatum</i> Schult.	
<i>Panicum consanguineum</i> Kunth	
<i>Panicum cryptanthum</i> Ashe	
<i>Panicum depauperatum</i> Muhl.	
<i>Panicum dichotomiflorum</i> Michx. (<i>P. proliferum</i>)	Fall Panicum
<i>Panicum dichotomum</i> L.	
<i>Panicum fasciculatum</i> Sw. (<i>P. fuscum</i> Sw.)	Brown Top Millet
<i>Panicum filipes</i> Scribn.	
<i>Panicum flexible</i> (Gattinger) Scribn.	
<i>Panicum gemmatum</i> Forsk. (<i>P. paspalodes</i>)	
<i>Panicum gymnocarpon</i> Ell.	
<i>Panicum hemitonon</i> Schult.	Maidencane
<i>Panicum hians</i> Ell.	
<i>Panicum lanuginosum</i> Ell.	
<i>Panicum lanuginosum</i> Ell., var. <i>Lindheimeri</i> (Nash) Fern. (<i>P. tennesseense</i> Ashe)	
<i>Panicum longifolium</i> Torr.	
<i>Panicum lucidum</i> Ashe	
<i>Panicum malacophyllum</i> Nash	
<i>Panicum maximum</i> Jacq.	Guinea Grass
<i>Panicum microcarpon</i> Muhl.	
<i>Panicum obtusum</i> H. K.	Vine Mesquite Grass
<i>Panicum oligosanthos</i> Schult.	
<i>Panicum oligosanthos</i> Schult., var. <i>Helleri</i> (Nash) Fernald (<i>P. Helleri</i> Nash)	

<i>Panicum ovium</i> Scribn. & Smith	
<i>Panicum pedicellatum</i> Vasey	
<i>Panicum philadelphicum</i> Bernh.	
<i>Panicum polyanthes</i> Schult.	
<i>Panicum Ravenelii</i> Scribn. & Merr.	
<i>Panicum reptans</i> L.	
<i>Panicum roanokense</i> Ashe	
<i>Panicum scabriusculum</i> Ell.	
<i>Panicum scoparium</i> Lam. (<i>P. pubescens</i> Lam.)	
<i>Panicum sphaerocarpon</i> Ell.	
<i>Panicum sphaerocarpon</i> Ell., var. <i>inflatum</i> (Scribn. & Smith) Hitchc.	
<i>Panicum stipitatum</i> Nash	
<i>Panicum tenerum</i> Beyr.	
<i>Panicum Thunbergii</i> Scribn. & Smith	
<i>Panicum verrucosum</i> Muhl.	
<i>Panicum villosissimum</i> Nash	Switchgrass
<i>Panicum virgatum</i> L.	
<i>Paspalum bifidum</i> (Bertol.) Nash	
<i>Paspalum ciliatifolium</i> Michx. (<i>P. Eggertii</i> Nash; <i>P. epile</i> Nash)	
<i>Paspalum ciliatifolium</i> Michx., var. <i>Muhlenbergii</i> (Nash) Fernald	
<i>Paspalum ciliatifolium</i> Michx., var. <i>stramineum</i> (Nash) Fern.	
<i>Paspalum debile</i> Michx. (<i>P. villosissimum</i> Nash)	
<i>Paspalum dilatatum</i> Poir.	
<i>Paspalum distichum</i> L.	Knotgrass
<i>Paspalum floridanum</i> Michx.	
<i>Paspalum floridanum</i> Michx., var. <i>glabratum</i> Engelm.	
<i>Paspalum laeve</i> Michx.	
<i>Paspalum laeve</i> Michx., var. <i>circulare</i> (Nash) Stone	
<i>Paspalum laeve</i> Michx., var. <i>pilosum</i> Scribn.	
<i>Paspalum lentiherum</i> Lam.	
<i>Paspalum monostachyum</i> Vasey	
<i>Paspalum plicatulum</i> Michx.	
<i>Paspalum pubiflorum</i> Rupr.	
<i>Paspalum pubiflorum</i> Rupr., var. <i>glabrum</i> Vasey	
<i>Paspalum Urvillei</i> Steud.	
<i>Phalaris arundinacea</i> L., var. <i>picta</i> L.	
<i>Phalaris caroliniana</i> Walt.	
<i>Phleum pratense</i> L.	Timothy
<i>Phragmites communis</i> Trin., var. <i>Berlandieri</i> (Fourn.) Fernald	Annual Bluegrass
<i>Poa annua</i> L.	
<i>Poa autumnalis</i> Muhl.	
<i>Poa Chapmaniana</i> Scribn.	Inland Bluegrass
<i>Poa interior</i> Rydb.	Kentucky Bluegrass
<i>Poa pratensis</i> L.	
<i>Poa sylvestris</i> A. Gray	
<i>Setaria geniculata</i> (Lam.) Beauv.	Knotroot Bristle Grass
<i>Setaria lutescens</i> (Weigel) Hubbard	
<i>Sorghastrum Elliotti</i> (C. Mohr) Nash	
<i>Sorghastrum nutans</i> (L.) Nash	Indian Grass
<i>Sorghastrum secundum</i> (Ell.) Nash	
<i>Sorghum halepense</i> (L.) Pers.	Johnston Grass
<i>Sphenopholis filiformis</i> (Chapm.) Scribn.	
<i>Sphenopholis intermedia</i> (Rydb.) Rydb.	
<i>Sphenopholis longiflora</i> (Vasey) Hitchc.	
<i>Sphenopholis nitida</i> (Spreng.) Scribn.	
<i>Sphenopholis obtusata</i> (Michx.) Scribn.	
<i>Sporobolus argutus</i> (Nees) Kunth	
<i>Sporobolus asper</i> (Michx.) Kunth	
<i>Sporobolus asper</i> (Michx.) Kunth, var. <i>Hookeri</i> (Trin.) Vasey	
<i>Sporobolus clandestinus</i> (Spreng.) Hitchc.	

Sporobolus heterolepis A. Gray
Sporobolus neglectus Nash
Sporobolus Poirerii (R. & S.) Hitchc.
Sporobolus purpurascens (Sw.) Hamilt.
Stipa avenacea L.
Triodia eragrostoides Vasey & Scribn.
Triodia flava (L.) Smyth
Triodia Langloisii (Nash) Bush
Triodia stricta (Nutt.) Benth.
Triodia texana S. Wats.
Triplasis purpurea (Walt.) Chapm.
Tripsacum dactyloides (L.) L.
Uniola latifolia Michx.
Uniola sessiliflora Poir.
Uniola laxa (L.) B.S.P.
Zizantopsis miliaceae (Michx.) Doell & Aschers
Carex alata Torr.
Carex amphibola Steud.
Carex annectens Bickn.
Carex arkansana L. H. Bailey
Carex austrina (Small) Mackenzie
Carex blanda Dewey
Carex Brittoniana Bailey
Carex Bushii Mackenzie
Carex caroliniana Schwein.
Carex complanata Torr.
Carex crinita Lam.
Carex Crus-corvi Shuttlew.
Carex debilis Michx.
Carex flaccosperma Dewey
Carex Frankii Knuth
Carex gigantea Rudge
Carex glaucoidea Tuckerm.
Carex grisea Wahl.
Carex hyalina Boott.
Carex hyalinolepis Steud.
Carex incompta Bickn.
Carex lanuginosa Michx.
Carex Leavenworthii Dewey
Carex leptalea Wahl.
Carex leptalea Wahl., var. *Harperi* (Fernald) Stone
Carex Longii Mackenzie
Carex Louisanica Bailey
Carex Lunelliana Mackenzie
Carex lupulina Muhl.
Carex microdonta Torr. & Hook.
Carex Muhlenbergia Schk.
Carex Muhlenbergia Schk., var. *australis* Olney
Carex nigromarginata Schwein., var. *floridana* (Schwein.)
 Weatherby
Carex intumescens Rudge
Carex oklahomensis Mackenzie
Carex oligocarpa Schk.
Carex physorrhyncha Liebm.
Carex reniformis (Bailey) Small
Carex Smalliana Mackenzie
Carex squarrosa L.
Carex tetanica Schk.
Carex triangularis Boeckl.
Carex tribuloides Wahl.
Cyperus cylindrostachys Boeckl.
Cyperus densus Link
Cyperus diandrus Torr.
Cyperus esculentus L.
Cyperus filiculmis Vahl., var. *microdonta* (Torr.) Fern.
Cyperus globulosus Aubl.
Cyperus Haspan L.

Blackseed Needlegrass

Eastern Gamagrass
Broadleaf Uniola

Southern Wild Rice

Northern Nut Grass

Cyperus hystericinus Fernald
Cyperus lutescens Torr. & Hook.
Cyperus multiflorus (Britton) Small
Cyperus paniculatus Rottb.
Cyperus Plankii Britton
Cyperus praelongatus Steud.
Cyperus reflexus Vahl.
Cyperus retrorsus Chapm., var. *cylindricus*
 (Ell.) Fern. & Griseb.
Cyperus rotundus L.
Cyperus sabulosus Mart. & Schrad.
Dichromena colorata (L.) A. S. Hitchc.
Dulichium arundinaceum (L.) Britton
Eleocharis Brittonii Svenson
Eleocharis calva Torr.
Eleocharis elongata Chapm.
Eleocharis Lindheimeri (C. B. Clarke) Svenson
Eleocharis mamillata Lindb.
Eleocharis nodulosa (Roth) Schult.
Fimbristylis Baldwiniana (Schult.) Torr.
Hemicarpha Drummondii Nees
Hemicarpha micrantha (Vahl) Pax
Kyilinga brevifolia L.
Kyilinga pumila Michx.
Psilocarya nitens (Vahl) Wood
Rhynchospora axillaris (Lam.) Britton
Rhynchospora caduca Ell.
Rhynchospora filifolia Torr.
Rhynchospora fuscoides Clarke
Rhynchospora globularis (Chapm.) Small
Rhynchospora glomerata (L.) Vahl
Rhynchospora gracilentia A. Gray
Rhynchospora Grayi Kunth
Rhynchospora Harveyi W. Boott
Rhynchospora intermixta C. Wright
Rhynchospora macra (Clarke) Small
Rhynchospora macrostachya Torr.
Rhynchospora microcarpa Baldw.
Rhynchospora mixta Britton
Rhynchospora oligantha A. Gray
Rhynchospora plumosa Ell.
Rhynchospora semiplumosa Griseb.
Schoenus nigricans L.
Scirpus carinatus (H. & A.) A. Gray
Scleria Baldwinii (Torr.) Steud.
Scleria ciliata Michx.
Scleria costata (Britton) Small
Scleria Elliottii Chapm.
Scleria gracilis Ell.
Scleria oligantha Michx.
Scleria pauciflora Muhl.
Scleria setacea Poir.
Scleria triglomerata Michx.
Stenophyllus capillaris (L.) Britton
Sabal minor (Jacq.) Pers.
Serenoa repens (Bartr.) Small
Acorus Calamus L.
Arisaema Dracontium (L.) Schott
Pistia Stratiotes L.
Spirodela polyrrhiza (L.) Schleid.
Wolffia punctata Griseb.
Ericaulon compressum Lam.
Ericaulon decangulare L.
Ericaulon Koernickianum Von Heurck & Muell. Arg.
Lachnocaulon anceps (Walt.) Morong
Xyris ambigua Bevr.

Southern Nutgrass

Calamus Root
Dragon Head

Xyris flexuosa Muhl.
Xyris iridifolia Chapm.
Xyris torta J. E. Smith
Mayaca Aubletii Michx.
Commelina augustifolia Michx.
Commelina communis L.
Commelina longicaulis Jacq.
Commelina virginica L.
Tradescantia hirsutiflora Bush
Tradescantia canaliculata Raf.
Tillandsia usneoides L.
Eichornia crassipes (Mart.) Solms
Heteranthera peduncularis Benth.
Pontederia cordata L.
Pontederia lanceolata Nutt.
Juncus acuminatus Michx.
Juncus brachycarpus Engelm.
Juncus bufonius L.
Juncus macer S. F. Gray
Juncus marginatus Rostk.
Juncus marginatus Rostk., var. *setosus* Coville
Juncus nodatus Coville
Juncus megacephalus M. A. Curtis
Juncus polyccephalus Michx.
Juncus scirpoides Lam.
Juncus tenuis Willd., var. *anthelatus* Wiegand
Juncus Torreyi Coville
Luzula campestris (L.) D. C., var. *bulbosa* A. Wood
Allium canadense L.
Allium mobilense Regel
Allium mutabile Michx.
Camassia scilloides (Raf.) Cory
Erythronium albidum Nutt.
Hemerocallis fulva L.
Lilium carolinianum Michx.
Melanthium virginicum L.
Nothoscordum bivalve (L.) Britton
Polygonatum biflorum (Walt.) Ell.
Polygonatum commutatum (R. & S.) Dietr.
Schoenolirion texanum (Scheele) A. Gray
Smilacina racemosa (L.) Desf.
Smilax Bona-nox L.
Smilax glauca Walt.
Smilax herbacea L.
Smilax hispida Muhl.
Smilax lanceolata L.
Smilax laurifolia L.
Smilax Pseudo-China L.
Smilax rotundifolia L.
Trillium ludovicianum Harbison
Yucca arkansana Trel.
Yucca louisianensis Trel.
Dioscorea villosa L.
Agave virginica L.
Aletris aurea Walt.
Cooperia pedunculata Herb.
Crinum americanum L.
Hymenocallis galvestonensis Baker
Hymenocallis occidentalis Kunth
Hypoxis hirsuta (L.) Coville
Hypoxis micrantha Pollard
Hypoxis rigida Chapm.
Hypoxis sessilis L.
Zephyranthes texana Herb.
Belamcanda chinensis (L.) DC.
Iris fulva Ker
Iris virginica L.

Spanish Moss
 Water Hyacinth

Pickereel Weed

Dogtooth Violet

Carolina Lily
 Bunch Flower
 Crow Poison

Early Yucca
 Wild Yam

Nemastylis acuta (Bart.) Herb
Nemastylis coelestina (Bart.) Nutt.
Nemastylis purpurea Herb.
Sisyrinchium amoenum Bicknell
Sisyrinchium Brayi Bicknell
Sisyrinchium Bushii Bicknell
Sisyrinchium Canbyi Bicknell
Sisyrinchium colubriferum Bicknell
Sisyrinchium flaccidum Bicknell
Sisyrinchium fureatum Bicknell
Sisyrinchium Langloisii Greene
Sisyrinchium minus Engelm. & Gray
Sisyrinchium sagittiferum Bicknell
Sisyrinchium texanum Bicknell
Sisyrinchium Thunbergii Coulter & Fisher
Sisyrinchium varians Bicknell
Blephariglotis ciliaris (L.) Rydb.
Calopogon pulchellus (Sw.) R. Br.
Corallorhiza maculata Raf.
Corallorhiza odontorrhiza (Willd.) Nutt.
Corallorhiza wisteriana Conrad
Habenaria integra (Nutt.) Spreng.
Habenaria nivea (Nutt.) Spreng.
Habenaria quinqueseta (Michx.) Sw.
Hexalectris spicata (Walt.) Bernh.
Liparis Loeselii (L.) Rich.
Microstylis monophyllus (L.) Lindl.
Microstylis unifolia (Michx.) B.S.P.
Pogonia ophioglossoides (L.) Ker.
Spiranthes brevifolia Chapm.
Spiranthes cernua (L.) Richard
Spiranthes gracilis (Bigel.) Beck
Spiranthes ovalis Lindl.
Spiranthes praecox (Walt.) S. Wats.
Spiranthes vernalis Engelm. & Gray
Spiranthes Reverchonii (Small) Cory
Tipularia discolor (Pursh) Nutt.
Saururus cernuus L.
Populus deltoides Marsh., var. *virginiana* (Foug.) Sudw.
Salix interior Rowlee
Salix longipes Anderss.
Salix nigra Marsh., var. *altissima* Sarg.
Myrica cerifera L.
Carya alba (L.) K. Koch
Carya aquatica (Michx.) Nutt.
Carya Buckleyi Durand
Carya cordiformis (Wang.) K. Koch
Carya glabra (Mill.) Spach
Carya laciniata (Michx. f.) Nutt.
Carya leiocarpa Sarg.
Carya myristicifera (Michx. f.) Nutt.
Carya ovata (Mill.) K. Koch
Carya texana C. DC.
Juglans nigra L.
Juglans rupestris Engelm.
Alnus rugosa (Du Roi) Spreng.
Betula nigra L.
Carpinus caroliniana Walt.
Ostrya virginiana (Mill.) K. Koch
Castanea alnifolia Nutt.
Castanea Ashei Sudworth
Castanea floridana (Sarg.) Ashe
Castanea pumila (L.) Mill.
Fagus grandifolia Ehrh., var. *caroliniana* (Loud.)
 Fern. & Rehder

Yellow Fringe Orchis

Large Coral Root

Rose Pogonia

Lizardtail

Wax Myrtle
 Mockernut Hickory
 Bitter Pecan
 Texas Hickory
 Bitternut Hickory
 Pignut Hickory
 Bigleaf Shagbark Hickory
 Pignut Hickory
 Metmeg Hickory
 Shagbark Hickory

Black Walnut
 River Walnut

River Birch
 Hornbeam
 Hop-hornbeam

<i>Quercus cinerea</i> Michx.	Sand Jack
<i>Quercus cinerea</i> Michx., var. <i>dentato-lobata</i> A. D.C.	
<i>Quercus Durandii</i> Buckl.	Durand's White Oak
<i>Quercus laurifolia</i> Michx.	Laurelleaf Oak
<i>Quercus lyrata</i> Walt.	Overcup Oak
<i>Quercus macrocarpa</i> Michx.	Bur Oak
<i>Quercus Margaretta</i> Ashe	
<i>Quercus marylandica</i> Muench var. <i>Ashei</i> Sudw.	Water Oak
<i>Quercus nigra</i> L.	
<i>Quercus obtusa</i> Ashe	
<i>Quercus obtusa</i> Ashe, var. <i>obovatifolia</i> (Sarg) Sudworth.	
<i>Quercus obtusifolia</i> Rydb.	
<i>Quercus Phellos</i> L.	Willowleaf Oak
<i>Quercus prinoides</i> L.	Chestnut Oak (Small)
<i>Quercus Prinus</i> L.	
<i>Quercus rubra</i> L.	Red Oak
<i>Quercus rubra</i> L., var. <i>digitata</i> Sudw.	
<i>Quercus rubra</i> L., var. <i>laucophylla</i> Ashe	
<i>Quercus rubra</i> L., var. <i>pagodaefolia</i> (Elliott) Ashe	
<i>Quercus rubra</i> L., var. <i>triloba</i> (Michx.) Ashe	
<i>Quercus Shumardii</i> Buckl., var. <i>Schneekii</i> (Britton) Sarg.	
<i>Quercus stellata</i> Wang.	
<i>Quercus undulata</i> Torr., var. <i>Vaseyana</i> Rydb.	
<i>Quercus velutina</i> Lamarch	
<i>Quercus virginiana</i> Miller	
<i>Celtis laevigata</i> Willd.	American Elm
<i>Celtis laevigata</i> Willd., var. <i>Smallii</i> (Beadle) Sarg.	Bois de Arc
<i>Celtis laevigata</i> Willd., var. <i>texana</i> (Scheele) Sarg.	Red Mulberry
<i>Celtis occidentalis</i> L., var. <i>crassifolia</i> (Lam.) A. Gray	
<i>Planera aquatica</i> (Walt.) Gmel.	
<i>Ulmus americana</i> L.	
<i>Maclura pomifera</i> (Raf.) Schneider	
<i>Morus rubra</i> L.	
<i>Parietaria floridana</i> Nutt.	
<i>Parietaria pennsylvanica</i> Muhl.	
<i>Pilea pumila</i> (L.) (Lunnell) Fernald	
<i>Urtica procera</i> Muhl.	
<i>Phoradendron flavescens</i> (Pursh) Nutt.	American Mistletoe
<i>Aristolochia hastata</i> Nutt.	Nash Snakeroot
<i>Aristolochia reticulata</i> Nutt.	
<i>Aristolochia tomentosa</i> Sims	
<i>Brunneria cirtiosa</i> Banks	
<i>Erigonum longifolium</i> Nutt.	Eardrop Vine
<i>Erigonum multiflorum</i> Benth.	
<i>Polygonella articulata</i> (L.) Meisn.	Coast Jointweed
<i>Polygonum ariifolium</i> L.	Halbardleaf Tear Thumb
<i>Polygonum Beyrichianum</i> (Cham. & Schlecht.) Small	
<i>Polygonum dumetorum</i> L.	
<i>Polygonum hydropiperoides</i> Michx.	
<i>Polygonum mississippiense</i> Stanford	
<i>Polygonum ramosissimum</i> Michx.	Bush Tear Thumb
<i>Polygonum scandens</i> L.	Vine False Buckwheat
<i>Polygonum setaceum</i> Baldw.	Bristle Persicaria
<i>Rumex hastatulus</i> Baldw.	
<i>Rumex obtusifolius</i> L.	Bitter Dock
<i>Rumex pulcher</i> L.	
<i>Rumex verticillatus</i> L.	Swamp Dock
<i>Chenopodium album</i> L., forma <i>viride</i> (L.) Aellen	
<i>Chenopodium carinatum</i> R. Br.	
<i>Chenopodium Vulvaria</i> L.	Stinking Goosefoot
<i>Amaranthus cruentus</i> L.	
<i>Amaranthus graecizans</i> L.	Tumbleweed
<i>Amaranthus polygonoides</i> L.	
<i>Amaranthus spinosus</i> L.	Thorny Amaranth
<i>Amaranthus</i>	

<i>Froelichia campestris</i> Small	
<i>Gossypianthus tenuiflorus</i> Hook.	
<i>Iresine rhizomatosa</i> Standl.	
<i>Phytolacca americana</i> L.	Poke
<i>Phytolacca rigida</i> Small	
<i>Mirabilis nyctaginea</i> (Michx.) MacMill.	
<i>Anychia polygonoides</i> Raf.	
<i>Paronychia scoparia</i> Small	
<i>Mollugo verticillata</i> L.	Carpetweed
<i>Arenaria lanuginosa</i> (Michx.) Rohrb.	
<i>Arenaria Nuttallii</i> Pax	
<i>Cerastium brachypodum</i> (Engelm.) Robinson	
<i>Cerastium brachypodum</i> (Engelm.) Robinson, var. <i>compactum</i> Robinson	
<i>Silene dichotoma</i> Ehrh.	
<i>Silene stellata</i> (L.) Ait. f., var. <i>subciliata</i> Robinson	
<i>Spergularia salsuginea</i> (Bunge) Fenzl., var. <i>bracteata</i> Robins.	
<i>Stellaria prostrata</i> Baldw.	
<i>Claytonia Bodini</i> Holz.	
<i>Claytonia simsii</i> Sweet	
<i>Portulaca oleracea</i> L.	Pusley
<i>Brasenia Schreberi</i> Gmel.	
<i>Cabomba caroliniana</i> A. Gray	
<i>Nelumbo lutea</i> (Willd.) Pers.	Lotus, Yonquepin
<i>Nuphar advenum</i> (Ait.) Ait. f.	
<i>Nuphar lekophylla</i> (Small) Cory	
<i>Adonis annua</i> L.	
<i>Anemone caroliniana</i> Walt.	
<i>Anemone decapetala</i> Ard.	
<i>Anemone ludoviciana</i> Nutt.	
<i>Aquilegia australis</i> Small	
<i>Clematis crispa</i> L.	
<i>Clematis crispa</i> L., var. <i>Walteri</i> (Pursh) A. Gray	
<i>Clematis obliqua</i> (Small) Schneid	
<i>Clematis subreticulata</i> Harbison	
<i>Delphinium carolinianum</i> Walt.	Blue Larkspur
<i>Delphinium consolida</i> Rydb.	
<i>Delphinium vilmorinum</i> D. Don	
<i>Isopyrum bitematum</i> (Raf.) T. & G.	
<i>Ranunculus fascicularis</i> Muhl.	
<i>Ranunculus fascicularis</i> Muhl., var. <i>apricus</i> (Greene) Fernald	
<i>Ranunculus muricatus</i> L.	
<i>Ranunculus oblongifolius</i> Ell.	
<i>Ranunculus pusillus</i> Poir., var. <i>Lindheimeri</i> (Engelm.) A. Gray	
<i>Ranunculus repens</i> L.	
<i>Ranunculus septentrionalis</i> Poir.	
<i>Ranunculus tener</i> C. Mohr.	
<i>Thalictrum hypoglaucom</i> Rydb.	
<i>Magnolia Ashei</i> Weatherby	Cucumber Tree
<i>Magnolia grandiflora</i> L.	Magnolia
<i>Magnolia virginiana</i> L.	Sweet Bay
<i>Magnolia virginiana</i> L., var. <i>australis</i> Sarg.	
<i>Asimina parviflora</i> (Michx.) Dunal	
<i>Asimina triloba</i> (L.) Dunal	Pawpaw
<i>Calyocarpum Lyoni</i> (Pursh) Nutt	Wild Sarsaparilla
<i>Cocculus carolinus</i> (L.) D.C.	
<i>Podophyllum peltatum</i> L.	Mayapple
<i>Persea Borbonia</i> (L.) Spreng.	Sweet Bay
<i>Persea pubescens</i> (Pursh) Sarg.	
<i>Sassafras albidum</i> (Nutt.) Nees	
<i>Sassafras albidum</i> (Nutt.) Nees, var. <i>molle</i> (Raf.) Fernald	

Corydalis crystallina Engelm.
Corydalis micrantha (Engelm.) A. Gray
Arabis virginica (L.) Trel.
Capsella bursa-pastoris (L.) Medic.
Cardamine arenicola Britton
Descurainia intermedia (Rydb.) Daniels
Draba cuneifolia Nutt.
Draba reptans (Lam.) Fern., var. *micrantha* (Nutt.) Fern.
Leavenworthia aurea Torr.
Lepidium densiflorum Schrad. (L. *apetalum* A. Gray)
Lepidium ruderales L.
Lepidium virginicum L. var. *medium* (Greene)
C. L. Mitchc., forma *pusillum* C. L. Hitchcock
Lesquerella auriculata (Engelm. & Gray) S. Wats.
Lesquerella pallida (T. & G.) S. Wats.
Lobularia maritima (L.) Desv.
Roripa Nasturtium aquaticum (L.) Shinz & Thell
Roripa obtusa (Nutt.) Britton
Roripa palustris (L.) Greene
Roripa palustris (L.) Green, var. *hispida* (Desv.) Rydb.
Roripa sinuata (Nutt.) A. S. Hitchc.
Roripa Walteri (Ell.) Mohr.
Polanisia trachysperma T. & G.
Sarracenia Sledgei MacFarlane
Drosera brevifolia Pursh
Drosera capillaris Poir.
Drosera rotundifolia L.
Podostemum Ceratophyllum Michx.
Sedum pulchellum Michx.
Tillaea aquatica L.
Tillaea Drummondii T. & G.
Decumaria barbata L.
Itea virginica L.
Lepuropetalon spathulatum (Muhl.) Ell.
Parnassia grandifolia DC.
Ribes curvatum Small
Ribes cynosbati L.
Ribes texensis (Coville & Berger) Standl.
Saxifraga texana Buckl.
Saxifraga virginiana Michx.
Hamamelis virginiana L.
Liquidambar styraciflua L.
Platanus occidentalis L.
Agrimonia microcarpa Wallr.
Amelanchier canadensis (L.) Medic.
Crataegus aestivalis (Walt.) T. & G.
Crataegus brachyantha Sarg. & Engelm.
Crataegus brachyphylla Sarg.
Crataegus cherokeensis Sarg.
Crataegus dallasiana Sarg.
Crataegus edita Sarg.
Crataegus hispidula Sarg.
Crataegus invisa Sarg.
Crataegus Marshallia Eggleston (*apiifolia* Michx.)
Crataegus opaca Hook.
Crataegus spathulata Michx.
Crataegus sublobulata Sarg.
Crataegus triantophora Sarg.
Crataegus trimphalis Sarg.
Crataegus unica Sarg.
Crataegus velutina Sarg.
Crataegus viburnifolia Sarg.
Crataegus viridis L.
Crataegus Warneri Sarg.
Geum camporum Rydb.

Shepherd's Purse

Watercress

Pitcherplant

Sweet Gum
Sycamore

May Haw

Parsley Haw

Geum canadense Jacq.
Geum vernum (Raf.) T. & G.
Potentilla simplex Michx.
Poteridium annuum (Nutt.) Spach
Prunus americana Marsh., var. *lanata* Sudw.
Prunus angustifolia Marsh.
Prunus caroliniana (Mill.) Ait.
Prunus hortulana Bailey
Prunus mexicana S. Wats.
Prunus Persica (L.) Sieb. & Zucc.
Prunus serotina Ehrh.
Prunus umbellata Ell.
Prunus umbellata Ell., var. *tarda* (Sarg.) Wright
Prunus virginiana L.
Pyrus arbutifolia (L.) L. f., var. *cacrophylla* Hook.
Pyrus arbutifolia (L.) L. f., var. *atropurpurea* (Britton) Robinson
Pyrus communis L.
Pyrus coronaria L.
Pyrus ioensis (Wood) Bailey, var. *texana* (Rehder) Bailey
Rosa bracteata Wendl.
Rosa carolina L.
Rosa carolina L., var. *glandulosa*
Rosa foliolosa Nutt.
Rosa Lyoni Pursh
Rosa Micrantha Borrer
Rosa Palmeri Rydb.
Rosa setigera Mick., var. *tomentosa* T. & G.
Rosa serrulata Rydb.
Rosa tomentosa Smith
Rosa Woodsi Lindl.
Rubus argutus Link.
Rubus flagellaris Willd.
Rubus persistens Rydb.
Rubus trivialis Michx.
Acacia Farnesiana (L.) Willd.
Aeschynomene viscidula Misch.
Amphicarpa bracteata (L.) Fernald, var. *Pitcheri* (T. & G.) Fassett
Amorpha laevigata Nutt.
Amorpha paniculata T. & G.
Apios americana Med.
Astragalus canadensis L.
Astragalus distortus T. & G.
Astragalus Engelmanni Sheldon
Astragalus leptocarpus T. & G.
Astragalus Nuttallianus DC.
Astragalus plattensis Nutt.
Astragalus trichocalyx Nutt.
Baptisia Bushii Small
Baptisia laevicaulis (A. Gray) Small
Baptisia lanceolata Walt.
Baptisia leucantha T. & G.
Baptisia leucophaea Nutt.
Baptisia Nuttalliana Small
Baptisia sphaerocarpa Nutt.
Baptisia vespertina Nutt.
Cassia fasciculata Michx.
Cassia Medsgeri Shafer
Cassia mississippiensis Pollard
Cassia Tora L.
Centrosema virginiana Benth.
Cercis canadensis L.
Clitoria mariana L.
Crotalaria sagittalis L.
Dalmanella Nutt.

Chicksaw Plum
Wild Peach

Mexican Plum

McCartney's Rose

Huisache

Dalea enneandra Nutt.
Dalea nana Torr.
Desmanthus depressus H. B. K.
Desmanthus illinoensis (Michx.) MacMill.
Desmodium acuminatum (Michx.) DC.
Desmodium canescens (L.) DC.
Desmodium bracteosum (Michx.) DC.
Desmodium Dillenii Darl.
Desmodium illinoense A. Gray
Desmodium laevigatum (Nutt.) DC.
Desmodium lineatum (Michx.) DC.
Desmodium marilandicum (L.) DC.
Desmodium nudiflorum (L.) DC.
Desmodium obtusum (Muhl.) DC.
Desmodium paniculatum (L.) DC.
Desmodium paniculatum (L.) DC., var.
angustifolium T. & G.
Desmodium paniculatum (L.) DC., var. *pubens*
T. & G.
Desmodium pauciflorum (Nutt.) DC.
Desmodium rigidum (Ell.) DC.
Desmodium sessilifolium T. & G.
Desmodium strictum DC.
Desmodium viridiflorum (L.) Beck
Erythrina herbacea L.
Galactia regularis (L.) B. S. P.
Galactia volubilis (L.) Britton, var.
intermedia Vail
Galactia volubilis (L.) Britton, var.
mississippiensis Vail
Gleditsia aquatica Marsh
Gleditsia triacanthos L.
Indigofera miniata Ort.
Lathyrus pusillus Ell.
Lespedeza frutescens (L.) Britton
Lespedeza hirta (L.) Ell.
Lespedeza prairiea (Mack. & Bush) Britton
Lespedeza procumbens Michx.
Lespedeza repens (L.) Bart.
Lespedeza striata (Thunb.) H. & A.
Lespedeza Stuevei Nutt.
Lespedeza Stuevei Nutt., var. *neglecta* Britton
Lespedeza violacea (L.) Pers.
Lespedeza virginica (L.) Britton
Lotus americanus (Nutt.) Bisch.
Lupinus perennis L., forma *roseus* Britton
Lupinus subcarneus Hook.
Medicago hispida Gaertn.
Medicago lupulina L.
Medicago minima L.
Medicago sativa L.
Melilotus alba Desv.
Melilotus indica (D.) All.
Mimosa strigillosa T. & G.
Neptunia lutea (Leavenw.) Benth.
Neptunia pubescens Benth.
Petalostemum candidum (Willd.) Michx.
Petalostemum decumbens Nutt.
Petalostemum emarginatum T. & G.
Petalostemum multiflorum Nutt.
Petalostemum phleoides T. & G.
Petalostemum purpureum (Vent) Rydb.
Phaseolus polystachys (L.) B. S. P.
Phaseolus vulgaris L.
Prosopis chilensis (Molina) Stuntz
Psoralea cuneolata Pursh

Honey Locust

Pink Bluebonnet
San Bluebonnet

Hop Clover

Alfalfa
White Sweet Clover

Psoralea digitata Nutt.
Psoralea floribunda Nutt.
Psoralea linearifolia T. & G.
Psoralea obtusiloba T. & G.
Psoralea psoraloides (Walt.) Cory
Psoralea rhombifolia T. & G.
Psoralea simplex Nutt.
Psoralea subulata Bush
Psoralea tenuiflora Pursh
Rhynchosia americana Mill.
Rhynchosia latifolia Nutt.
Rhynchosia minima (L.) DC.
Rhynchosia Torreyi Vail
Schrankia angustata T. & G.
Schrankia angustata T. & G., var.
brachycarpa Chapm.
Schrankia Nuttallii (DC.) Standl. (S. *uncinata* of
authors)
Sesbania Drummondii (Rydb.) Cory (Daubentonia
longifolia of authors)
Sesbania exaltata (Raf.) Cory (Sesban,
macrocarpa Muhl)
Sesbania vesicaria (Jacq.) Ell. (Glottidium
vesicarium (Jacq.) Desv.)
Sophora affinis T. & G.
Strophostyles helvola (L.) Ell.
Strophostyles leiosperma (T. & G.) Piper
Stylosanthes biflora (L.) B. S. P.
Stylosanthes biflora (L.) B. S. P., var.
hispidissima (Michx.) Pollard & Ball
Stylosanthes riparia Kearney
Tephrosia angustifolia Beathernan
Tephrosia leucosericea (Rydb.) Cory
Tephrosia onobrychoides Nutt.
Tephrosia spicata Walt.
Tephrosia texana (Rydb.) Cory
Tephrosia virginiana (L.) Pers.
Trifolium amphianthum T. & G.
Trifolium bejariense moric
Trifolium carolinianum Michx.
Trifolium dubium Sibth.
Trifolium reflexum L.
Vicia angustifolia L.
Vicia Leavenworthii T. & G.
Vicia ludoviciana Nutt.
Vicia micrantha S. Wats.
Vicia texana (T. & G.) Small
Vigna sinensis (L.) Endl.
Wisteria frutescens (L.) Poir.
Wisteria macrostachya Nutt.
Zornia bracteata (Walt.) Gmel.
Linum alatum (Small) H. Winkl.
Linum Berlandieri Hook.
Linum medium (Planch.) Britton, var. *texanum*
(Planch.) Fernald
Linum striatum Walt.
Linum sulcatum Riddell
Oxalis corniculata L.
Oxalis cymosa Small
Oxalis violacea L.
Oxalis recurva Ell., var. *texana* (Small) Wiegand
Oxalis stricta L.
Geranium carolinianum L.
Tribulus terrestris L.
Ptelea trifoliata L.
Zanthoxylum Clava-Herculis L.
Zanthoxylum macrophyllum Nutt.

Yellow Wood Sorrel

Puncture Plant

EAST TEXAS BIG THICKET AREA

EAST TEXAS BIG THICKET AREA

Melia Azedarach L.
 Melia Azedarach L., var. umbraculiformis
 Berck. & Bailey
 Polygala Hookeri T. & G.
 Polygala incarnata L.
 Polygala mariana Mill.
 Polygala polygama Walt.
 Polygala ramosa Ell.
 Polygala verticillata L.
 Acalypha gracilens A. Gray, var. monococca Engelm.
 Acalypha ostryaefolia Ridd.
 Cnidoscolus texanus (Muell. Arg.) Small (Jatropha
 tenana Muell. Arg.)
 Croton argyranthemum Michx.
 Croton capitatus Michx.
 Croton glandulosus L., var. Lindheimeri (Muell.
 Arg.)
 Croton monanthogynus Michx.
 Crotonopsis linearis Michx.
 Euphorbia bicolor Engelm.
 Euphorbia commutata Engelm.
 Euphorbia cordifolia Ell.
 Euphorbia corollata L.
 Euphorbia corollata L., var. Joorii Norton
 Euphorbia Cyparissias L.
 Euphorbia dictyosperma Fisch. & Mey.
 (E. arkansana Engelm.)
 Euphorbia glyptosperma Engelm.
 Euphorbia humistrata Engelm.
 Euphorbia hypericifolia L.
 Euphorbia hyssopifolia L.
 Euphorbia Lathyrus L.
 Euphorbia longicuris Scheele
 Euphorbia malaca (Small) Little
 Euphorbia obtusata Pursh
 Euphorbia polyclada Boiss.
 Euphorbia tetrapora Engelm.
 Phyllanthus carolinensis Walt.
 Sebastiana ligustrina (Michx.) Muell. Arg.
 Stillingia sylvatica L.
 Tragia urticifolia Michx.
 Callitriche deflexa A. Br.
 Callitriche deflexa A. Br., var. austini (Engelm.)
 Heglemn.
 Callitriche heterophylla Pursh
 Callitriche palustris L.
 Callitriche peploides Nutt.
 Rhus aromatica (Ait.) Desv.
 Rhus canadensis L.
 Rhus copallina L.
 Rhus glabra L.
 Rhus quercifolia (Michx.) Steud.
 Rhus toxicodendron L.
 Rhus toxicodendron L., var. radicans (L.) Torr.
 Rhus vernix L.
 Cyrilla racemiflora L.
 Ilex ambigua (Michx.) Chapm.
 Ilex decidua Walt.
 Ilex glabra (L.) A. Gray
 Ilex longipes Chapm.
 Ilex opaca Ait.
 Ilex vomitoria Ait.
 Celastrus scandens L.
 Evonymus americanus L.
 Evonymus atropurpureus Jacq.
 Acer floridanum (Chapm.) Pax

Chinaberry
 Umbrella China
 Pink Milkwort
 Racemed Milkwort
 Whorled Milkwort
 Malo Moyer
 Poison Ivy
 Poison Oak
 Southern Leatherwood
 Deciduous Holly
 American Holly
 Evergreen Holly, Yaupon
 American Bittersweet
 Wahoo
 Box Elder

Acer negundo L., var. texanum Pax
 Acer rubrum L.
 Acer rubrum L., var. Drummondii (H. & A.)
 T. & G.
 Acer rubrum L., var. tomentosum Kirchner
 Acer rubrum L., var. tridens Wood
 Acer saccharum Marshall
 Aesculus discolor Pursh, var. mollis (Raf.) Sarg.
 Aesculus glabra Buckl., var. leucodermis Sarg.
 Aesculus Pavia L.
 Cardiospermum Halicacabum L.
 Sapindus Drummondii H. & A.
 Berchemia scandens (Hill) Trel.
 Ceanothus americanus L.
 Ceanothus ovatus Desf.
 Condalia obtusifolia (Hook.) Weberb.
 Rhamnus caroliniana Walt.
 Rhamnus lanceolata Pursh
 Cissus ampelopsis Pers. (ampelopsis
 cordata Michx.)
 Cissus arborea (L.) Des Moulins
 Cissus incisa (Nutt.) Des Moulins
 Parthenocissus quinquefolia (L.) Planch.
 Vitis candicans Engelm.
 Vitis cinerea Engelm.
 Vitis cordifolia Michx.
 Vitis Linsecumii Buckl.
 Vitis Linsecumii Buckl., var. glauca Munson
 Vitis palmata Vahl.
 Vitis rotundifolia Michx.
 Tilia caroliniana Mill.
 Tilia caroliniana Mill., var. rhoophila Sarg.
 Tilia floridana Small
 Tilia floridana Small, var. oblongifolia Sarg.
 Tilia nuda Sarg.
 Tilia nuda Sarg., var. glaucescens Sarg.
 Tilia texana Sarg.
 Callirhoe digitata Nutt.
 Callirhoe involucrata (Nutt.) A. Gray
 Callirhoe triangulata (Leavenw.) A. Gray
 Hibiscus lasiocarpus Cav.
 Hibiscus militaris Cav.
 Hibiscus syriacus L.
 Sida Lindheimeri A. Gray
 Sida rhombifolia L.
 Sida spinosa L.
 Melochia coccinifolia L.
 Ascyrum hypericoides L.
 Ascyrum linifolium Spach.
 Ascyrum stans Michx.
 Hypericum densiflorum Pursh
 Hypericum fasciculatum Lam.
 Hypericum gentianoides (L.) B. S. P.
 Hypericum gymnanthum Engelm. & Gray
 Hypericum petiolatum Walt.
 Hypericum punctatum Lam.
 Hypericum punctatum Lam., var. pseudomaculatum
 (Bush) Fernald
 Elatine americana (Pursh) Arn.
 Helianthemum carolinianum (Walt.) Mich.
 Helianthemum rosmarinifolium Pursh
 Lechea villosa Ell.
 Viola eriocarpa Schwein
 Viola lanceolata L.
 Viola palmata L., var. dilatata Ell.
 Viola pallionacea Pursh

Red Maple
 Balloonvine
 Indian Cherry
 Finged Poppy Mallow
 Clustered Poppy Mallow
 Palm Violet
 Butterfly Violet

Viola primulifolia L., var. *australis* Pollard
Viola Rafinesquii Greene
Viola triloba Schwein
Viola villosa Walt.
Viola vittata Greene
Viola Walteri House
Passiflora incarnata L.
Passiflora lutea L.
Mentzelia nuda (Pursh) T. & G.
Opuntia grandiflora Engelm.
Opuntia nemoralis Griffiths
Ammannia coccinea Rotth.
Rotala ramosior (L.) Koehne
Rhexia lutea Walt.
Rhexia mariana L., var. *leiosperma* Fern & Griseb.
Circaea intermedia Ehrh.
Gaura filiformis Small
Gaura Lindheimeri Engelm. & Gray
Jussiaea leptocarpa Nutt.
Ludwigia alternifolia L.
Ludwigia glandulosa Walt.
Ludwigia hirtella Raf.
Ludwigia linearis Walt.
Ludwigia natans Ell.
Ludwigia natans Ell., var. *rotundata* (Griseb.) Fern. & Griseb.
Oenothera laciniata Hill
Oenothera linifolia Nutt.
Oenothera parviflora L.
Oenothera Spachiana T. & G.
Oenothera speciosa Nutt.
Myriophyllum heterophyllum Michx.
Myriophyllum pinnatum (Walt.) B. S. P.
Myriophyllum proserpinacoides Gill.
Proserpinaca amblygona (Fernald) Small
Aralia spinosa L.
Apium leptophyllum (Pers.) F. V. Muell. (A. Ammi Urban)
Centelia asiatica (L.) Urban
Chagrophyllum Teinturierii Hook.
Daucus Carota L. *Daucus pusillus* Michx.
Eryngium Baldurnii Spreng
Eryngium integrifolium Walt.
Eryngium integrifolium Walt., var. *ludovicianum* (Morong) Coult. & Rose
Eryngium Leavenworthii T. & G.
Eryngium prostratum Nutt.
Eryngium synchaetum (A. Gray) Rose
Eryngium yuccifolium Michx.
Hydrocotyle verticillata Thunb.
Hydrocotyle verticillata Thunb., var. *racemosa* (Sesse & Moc.) Mathias
Ptilimnium capillaceum (Michx.) Hollick
Ptilimnium Nuttallii (DC.) Britton
Ptilimnium texense Coulter & Rose
Sanicula canadensis L.
Sanicula Smallii Bicknell
Trepocarpus Aethusae Nutt.
Cornus asperifolia Michx.
Cornus florida L.
Cornus stricta Lam.
Nyssa aquatica L.
Nyssa sylvatica Marsh., var. *biflora* (Walt.) Sarg.
Nyssa sylvatica Marsh., var. *caroliniana* (Poir.) Fernald
Nyssa sylvatica Marsh., var. *dilatata* Fern.

Maypop
Yellow Passion Flower

Meadow Beauty

Hercules Club

Wild Carrot

Roughleaf Dogwood
Flowering Dogwood

Big Tupelo

Lyonia ligustrina (L.) DC., var. *foliosiflora* (Michx.) Fernald
Lyonia mariana (L.) D. Don
Lyonia mariana (L.) D. Don, forma *vestita* (Rehder) Cory
Rhododendron canescens (Michx.) G. Don
Rhododendron oblongifolium (Small) Millais
Vaccinium arboreum Marsh
Vaccinium arboreum Marsh, var. *glaucescens* (Greene) Sarg.
Vaccinium caesium Greene
Vaccinium Elliottii Chapm.
Vaccinium Langloisii (Greene) Cory
Vaccinium stamineum L.
Vaccinium virgatum Ait.
Anagallis arvensis L.
Centunculus minimus L.
Steironema ciliatum (L.) Raf.
Steironema hybridum (Michx.) Raf.
Bumelia lanuginosa (Michx.) Pers.
Bumelia lucida Small
Diospyros texana Scheele
Diospyros virginiana L.
Halesia diptera Ellis
Symplocos tinctoria (L.) L'Her.
Styrax americana Lam.
Styrax pulverulenta Michx.
Chionanthus virginica L.
Ligustrum ovalifolium L.
Ligustrum vulgare L.
Cynoctonum Mitreola (L.) Britton
Gelsemium sempervirens (L.) Ait.
Spigelia marylandica L.
Bartonia virginica (L.) B. S. P.
Eustoma Russellianum (Hook.) Griseb.
Gentiana Saponaria L.
Nymphoides aquaticum (Walt.) Fernald
Sabatia angularis (L.) Pursh
Sabatia campestris Nutt.
Sabatia gentianoides Ell.
Amsonia piliata Walt.
Amsonia ciliata, var. *texana* (A. Gray) Coulter
Amsonia illustris Woodson
Apocynum androsaemifolium L.
Apocynum Cannabinum L.
Nerium Oleander L.
Trachelospermum difforme (Walt.) A. Gray
Vinca rosea L.
Acerates floridana (Lam.) Hitchc.
Asclepias decumbens L.
Asclepias lanceolata Walt., var. *pauperula* (Michx.) Fernald
Asclepias laurifolia Michx.
Asclepias obovata Ell.
Asclepias perennis Walt.
Asclepias pumila (A. Gray) Vail
Asclepias rubra L.
Asclepias tuberosa L.
Asclepias variegata L.
Gonolobus laevis Michx.
Vincetoxicum biflorum (Raf.) Heller
Vincetoxicum gonocarpus Walt.
Breweria aquatica (Walt.) A. Gray
Convolvulus sepium L., var. *pubescens* (A. Gray) Fernald

Woolly Buckthorn

Mexican Persimmon
Eastern Persimmon
Snowdrop Tree

American Showbell
Downy Storax
White Fringe Tree
California Privet
European Privet

Indian Pink

Oleander

Red Milkweed

White Milkweed

Cuscuta Gronovii Willd., var. *calyptrata* Engelm.
Cuscuta indecora Choisy
Cuscuta indecora Choisy, var. *hispidula* (Engelm.) Yuncker
Cuscuta Polygonorum Engelm.
Dichondra repens Forst., var. *carolinensis* (Michx.) Choisy
Ipomoea hederacea (L.) Jacq.
Ipomoea lacunosa L.
Ipomoea macrorrhiza Michx.
Ipomoea pandurata (L.) F. W. Meyer
Ipomoea quamoclit L.
Ipomoea trifida (H.B.K.) G. Don
Jacquemontia tamnifolia (L.) Griseb.
Operculina dissecta (Jacq.) House
Operculina tuberosa (L.) Meisn.
Phlox divaricata L.
Phlox Drummondii Hook.
Phlox glaberrima L.
Phlox nivalis Lodd
Phlox pilosa L.
Phlox pilosa L., var. *detonsa* A. Gray
Phlox tenuis (A. Gray) E. Nels.
Hydrolea affine A. Gray
Hydrolea ovata Nutt.
Nemophila microcalyx (Nutt.) Fisch. & Mey.
Nemophila phacelioides Nutt.
Phacelia congesta Hook. Blue Curls
Phacelia dubia (L.) Small
Phacelia glabra Nutt.
Phacelia hirsuta Nutt.
Phacelia strictiflora (Engelm. & Gray) A. Gray
Echium vulgare L.
Heliotropium amplexicaule Vahl.
Heliotropium indicum L.
Heliotropium tenellum Torr.
Lithospermum carolinense (Walt.) MacMill.
(L. Gmelini Hitchc.)
Lithospermum incisum Lehm.
Myosotis virginica (L.) B. S. P., var. *macrosperma* (Engelm.) Fernald
Onosmodium hispidissimum Mack.
Onosmodium molle Michx., var. *occidentalis* (Mack.) Johnston
Callicarpa americana L.
Lippia nodiflora (L.) Michx.
Verbena bipinnatifida Nutt.
Verbena bracteata Lag. & Rodr.
Verbena canadensis (L.) Britton
Verbena carnea Medic.
Verbena Halei Small
Verbena officinalis L.
Verbena rigida (L.) Spreng.
Verbena xutha Lehm.
Agastache nepetoides (L.) Kuntze
Blephilia ciliata (L.) Raf.
Blephilia hirsuta (Pursh) Torr.
Cunila organoides (L.) Britt.
Lamium amplexicaule L.
Leonotis nepetaefolia A. Br.
Leonurus Cardiaca L.
Lycopus rubellus Moench.
Lycopus velutinus Rydb.
Lycopus virginicus L.
Mentha arvensis L.
Monarda citriodora cerv. ex Lag.
Monarda punctata L.

Monarda punctata L. Perennial Sandyland Horr
Monarda punctata L., var. *villicanlis* Pennell
Nepeta Cataria L. Catnip
Perilla frutescens (L.) Britton Beefsteak Plant
Physostegia denticulata (Ait.) Britton
Physostegia intermedia (Nutt.) Engelm. & Gray
Physostegia virginiana (L.) Benth., var. *speciosa* A. Gray
Prunella vulgaris L. Self-heal
Pycnanthemum albescens T. & G. Whiteleaf Mountain Mint
Pycnanthemum flexuosum (Walt.) B. S. P. Narrowleaf Mountain Mint
Salvia azurea Lam.
Salvia coccinea L.
Salvia farinacea Benth. Mealy Sage
Salvia lyrata L. Lyreleaf Sage
Satureja glabra (Nutt.) Fernald
Scutellaria brevifolia A. Gray
Scutellaria cardiophylla Engelm. & Gray
Scutellaria Drummondii Benth.
Scutellaria epilobifolia A. Hemilt.
Scutellaria integrifolia L.
Scutellaria integrifolia L., var. *hispidula* Benth.
Scutellaria parvula Michx.
Teucrium canadense L., var. *virginicum* (L.) Eaton
Teucrium occidentale A. Gray, var. *boreale* (Bicknell) Fernald
Trichostema dichotomum L. Blue Curls
Lycopersicon esculentum Mill., var. *commune* Bailey
Physalis heterophylla Nees
Physalis lanceolata Michx.
Physalis longifolia Nutt.
Physalis microphysa Rydb.
Physalis mollis Nutt.
Physalis pumila Nutt.
Physalis virginiana Mill., var. *intermedia* Rydb.
Physalis turbinata Medic.
Solanum aculeatissimum Jacq.
Solanum carolinense L.
Solanum Fendleri A. Gray
Solanum sisymbriifolium Lam.
Bacopa acuminata (Walt.) Robinson
Bacopa procumbens (Mill.) Greenm., var. *peduncularis* (Benth.) Fernald
Bacopa rotundifolia (Michx.) Wettst.
Buchnera floridana Gandoger
Castilleja indivisa Engelm.
Collinsia violacea Nutt.
Conoclea multifida (Michx.) Benth.
Gerardia auriculata Michx.
Gerardia fasciculata Ell.
Gerardia flava L., var. *reticulata* (Raf.) Cory
Gerardia grandiflora Benth.
Gerardia grandiflora Benth., var. *cinerea* (Pennell) Cory
Gerardia grandiflora Benth., var. *serrata* (Torr.) Robinson
Gerardia Gattingeri Small
Gerardia heterophylla Nutt.
Gerardia homolantha (Pennell) Pennell
Gerardia purpurea L.
Gratiola brevifolia Raf.
Gratiola flava Leavenw. apud Pennell
Gratiola neglecta Torr.
Gratiola pilosa Michx.

<i>Linaria canadensis</i> (L.) Dum.-Cours.	
<i>Linaria texana</i> Scheele	Texas Toad Flax
<i>Lindernia anagallidea</i> (Michx.) Pennell	
<i>Lindernia dubia</i> (L.) Pennell	
<i>Lindernia dubia</i> (L.) Pennell, var. major (Pursh) Pennell	
<i>Micranthemum umbrosum</i> (Walt.) Blake	
<i>Mimulus alatus</i> Ait.	Sharp Winged Monkey Flower
<i>Pedicularis canadensis</i> L.	Lousewort
<i>Penstemon Cobaea</i> Nutt.	
<i>Penstemon Digitalis</i> (Sweet) Nutt.	
<i>Penstemon laxiflorus</i> Pennell	
<i>Penstemon Murrayanus</i> Hook.	
<i>Penstemon tubaeiflorus</i> Nutt.	
<i>Seymeria macrophylla</i> Nutt.	
<i>Verbascum Thapsus</i> L.	Mullen
<i>Veronica peregrina</i> L.	
<i>Veronica virginica</i> L.	
<i>Pinguicula pumila</i> Michx.	
<i>Utricularia cornuta</i> Michx.	Swollenspurled Bladderwort
<i>Utricularia gibba</i> L.	
<i>Utricularia inflata</i> Walt.	
<i>Utricularia macrorrhiza</i> LeConte	
<i>Epifagus virginiana</i> (L.) Bart.	Beachdrops
<i>Bignonia capreolata</i> L.	
<i>Campsis radicans</i> (L.) Seem.	Trumpet creeper
<i>Catalpa bignonioides</i> Walt.	
<i>Catalpa speciosa</i> Warder	
<i>Martynia louisianica</i> Mill.	
<i>Dicliptera brachiata</i> (Pursh) Spreng.	
<i>Dicliptera brachiata</i> (Pursh) Spreng, var. attenuata A. Gray	
<i>Gatesia laeta-virens</i> (Buckl.) A. Gray	
<i>Hygrophila lacustris</i> (Schlecht.) Nees	
<i>Ruellia ciliosa</i> Pursh, var. humilis Britton	
<i>Ruellia nudiflora</i> (Engelm. & Gray) Urban	
<i>Ruellia parviflora</i> (Nees) Britton	
<i>Ruellia pedunculata</i> Torr.	
<i>Ruellia strepens</i> L., var. cleistantha A. Gray	
<i>Phryma leptostachya</i> L.	
<i>Plantago aristata</i> Michx.	
<i>Plantago heterophylla</i> Nutt.	Many Seeded Plantain
<i>Plantago pusilla</i> Nutt.	
<i>Plantago virginica</i> L.	
<i>Cephalanthus occidentalis</i> L.	
<i>Diodia tereb.</i> Walt.	
<i>Diodia virginiana</i> L.	
<i>Galium pilosum</i> Ait.	
<i>Galium tinctorium</i> L.	
<i>Galium triflorum</i> Michx.	
<i>Houstonia angustifolia</i> Michx.	
<i>Houstonia minima</i> Beck	
<i>Houstonia patens</i> Ell.	
<i>Houstonia purpurea</i> L.	
<i>Houstonia tenuifolia</i> Nutt.	
<i>Mitchella repens</i> L.	
<i>Oldenlandia Boscii</i> (DC.) Chapm.	
<i>Pentodon Habei</i> (T. & G.) A. Gray	
<i>Richardia scabra</i> L.	
<i>Spermacoce glabra</i> Michx.	
<i>Lonicera japonica</i> Thunb.	
<i>Lonicera sempervirens</i> L.	American Elder
<i>Sambucus canadensis</i> L.	
<i>Sambucus canadensis</i> L., var. submollis Rehder	
<i>Symphoricarpos orbiculatus</i> Moench	
<i>Viburnum acerifolium</i> L.	Mapleleaf Arrowwood
<i>Viburnum acerifolium</i> L.	

<i>Viburnum nudum</i> L.	Naked Withe-rod
<i>Viburnum rufidulus</i> Raff.	
<i>Viburnum scabrellum</i> (T. & G.) Chapm. (U. semitomentosum Rehder)	
<i>Valerianella radiata</i> (L.) Dufr.	
<i>Valerianella stenocarpa</i> (Engelm.) Krok.	
<i>Valerianella Woodsiana</i> (T. & G.) Walt.	
<i>Dipsacus sylvestris</i> Huds.	
<i>Cucumis Melo</i> L.	
<i>Melothria chlorocarpa</i> Engelm.	
<i>Sicyos angulatus</i> L.	
<i>Lobelia appendicula</i> A. DC.	
<i>Lobelia cardinalis</i> L.	Cardinal Flower
<i>Lobelia puberula</i> Michx., var. pauciflora Bush	
<i>Achillea Millefolium</i> L.	
<i>Ambrosia aptera</i> DC.	
<i>Ambrosia artemisiaefolia</i> L., var. elatior (L.) Desc.	Lanceleaf Ragweed
<i>Ambrosia bidentata</i> Michx.	
<i>Ambrosia psilostachya</i> DC.	
<i>Ambrosia trifida</i> L.	Horseweed
<i>Antennaria plantaginifolia</i> (L.) Richards	
<i>Anthemis Cotula</i> L.	
<i>Aphanostephus skirrhobasis</i> (D.C.) Trelease	
<i>Artemisia ludoviciana</i> Nutt.	
<i>Aster hemisphaericus</i> Alexander	
<i>Aster linarifolius</i> L.	
<i>Aster pedionomus</i> Alexander	
<i>Aster poaceus</i> Burgess	
<i>Aster sericocarpoides</i> (Small) K. Schum	
<i>Aster tenuicaulis</i> (Mohr) Burgess	
<i>Aster umbellatus</i> Mill., var. latifolius A. Gray	
<i>Aster virgatus</i> Ell.	
<i>Berlandiera dealbata</i> (T. & G.) Small	
<i>Berlandiera texana</i> DC.	
<i>Bidens aristosa</i> (Michx.) Britton	
<i>Bidens bipinnata</i> L.	
<i>Bidens frondosa</i> L.	
<i>Bidens polylepis</i> Blake (B. involucrata Britton)	
<i>Boltonia diffusa</i> Ell.	
<i>Chaetopappa asteroides</i> (Nutt.) DC.	
<i>Chaptalia tomentosa</i> Vent.	
<i>Chrysopsis graminifolia</i> (Michx.) Nutt.	
<i>Chrysopsis microcephala</i> Small	
<i>Chrysopsis pilosa</i> Nutt.	
<i>Chondrophora nudata</i> (Michx.) Britton	
<i>Chondrophora virgata</i> (Nutt.) Greene	
<i>Cichorium Intybus</i> L.	
<i>Cirsium horridulum</i> Michx.	
<i>Coreopsis angustifolia</i> Ait.	
<i>Coreopsis cardaminaefolia</i> (DC.) T. & G.	
<i>Coreopsis cardaminaefolia</i> (DC.) T. & G., var. angustiloba T. & G.	
<i>Coreopsis crassifolia</i> Ait.	
<i>Coreopsis grandiflora</i> Hogg	
<i>Coreopsis palmata</i> Nutt.	
<i>Eclipta alba</i> (L.) Hassk.	Yerba de tajo
<i>Elephantopus carolinianus</i> Willd.	
<i>Elephantopus tomentosus</i> L.	
<i>Erechtites hieracifolia</i> (L.) Raf.	Fire Weed
<i>Erigeron annuus</i> (L.) Pers.	
<i>Erigeron canadensis</i> L.	Canada Fleabane
<i>Erigeron divarticatus</i> Michx.	
<i>Erigeron pulchellus</i> Michx.	
<i>Erigeron quercifolius</i> Lam.	
<i>Erigeron quercifolius</i> (Lam.) Small	

Eupatorium coelestinum L.
Eupatorium compositifolium Walt.
Eupatorium cuneifolium Willd., var. *semiserratum* (DC.) Fern. & Grise.
Eupatorium hyssopifolium L.
Eupatorium lancifolium (T. & G.) Small
Eupatorium leucolepis T. & G.
Eupatorium maculatum L.
Eupatorium purpureum L.
Eupatorium rotundifolium L.
Eupatorium serotinum Michx.
Eupatorium urticaefolium Reichard, var. *angustatum* (A. Gray) Robinson
Gaillardia chrysantha Small
Gaillardia pulchella Foug. Showl *Gaillardia*
Gaillardia rigida Small
Gnaphalium falcatum Lam.
Gnaphalium obtusifolium L.
Gnaphalium spathulatum Lam.
Helenium campestre Small
Helenium fimbriatum (Michx.) Wood
Helenium nudiflorum Nutt.
Helenium tenuifolium Nutt.
Helianthus angustifolius L.
Helianthus debilis Nutt.
Helianthus grosseserratus Martens
Helianthus mollis Lam.
Helianthus occidentalis Riddell
Helianthus stenophyllus (T. & G.) E. E. Watson
Helianthus trachelifolius Willd.
Hieracium Gronovii L.
Hieracium longipilum Torr.
Hymenopappus artemisiaefolius DC.
Hymenopappus scabiosaeus L'Her.
Hypochaeris radicata L.
Iva angustifolia Nutt.
Iva ciliata Willd.
Krigia Dandelion (L.) Nutt.
Krigia virginica (L.) Willd.
Lactuca graminifolia Michx.
Lactuca ludoviciana (Nutt.) DC.
Lepachys columnaris (Pursh) T. & G.
Lepachys peduncularis T. & G.
Liatris acidota Engelm. & Gray
Liatris aspera (Michx.) Greene
Liatris compacta (T. & G.) Rydb.
Liatris elegans (Walt.) Willd.
Liatris Halei (Small) K. Schum.
Liatris Langloisii (Greene) Cory
Liatris laxa (Small) K. Schum.
Liatris pycnostachya Michx.
Liatris scariosa Willd., var. *intermedia* (Lind.) DC.
Marshallia caespitosa Nutt., var. *signata* Beadle & Boynton
Mikania scandens (L.) Willd.
Parthenium hispidum Raf.
Parthenium Hysterophorus L.
Pinaropappus roseus Less
Pluchea foetida (L.) DC.
Pluchea purpurascens (Sw.) DC.
Polymnia Uvedalia L., var. *densipilis* Blake
Polypteris Reverchonii Small
Pterocaulon virgatum (L.) DC.
Rudbeckia alismaefolia T. & G.
Rudbeckia bicolor Nutt.
Rudbeckia flaccida T. & G.

Blue Boneset

Swamp Sunflower

Sawtooth Sunflower

Narrowleaf Marsh Elder

Handsome Blazing Star

Scaly Blazing Star

Climbing Boneset

Hairy Feverfew

Santa Maria Feverfew

Rudbeckia hirta L.
Rudbeckia maxima Nutt.
Rudbeckia nitida Nutt.
Senecio ampullacens Hook.
Senecio aureus L.
Senecio glabellus Poir.
Senecio imparipinnatus Klatt.
Senecio obovatus Muhl.
Senecio obovatus Muhl., var. *rotundus* Britton
Senecio pauperculus Michx.
Senecio plattensis Nutt.
Senecio semicordatus Mack. & Bush
Senecio tomentosus Michx.
Serinia oppositifolia (Raf.) Kuntze
Serinia Wrightii (A. Gray) Kuntze
Solidago altissima L.
Solidago auriculata Shuttlew.
Solidago Gatingei Chapm.
Solidago gymnospermoides (Greene) Fernald
Solidago Helleri Small
Solidago leptoccephala T. & G.
Solidago microphylla Engelm.
Solidago minor (Michx.) Fernald
Solidago nitida T. & G.
Solidago odora Ait.
Solidago patula Muhl.
Solidago petiolaris Ait.
Solidago petiolaris Ait., var. *angusta* (T. & G.) A. Gray
Solidago petiolata Mill.
Solidago rigidiuscula (T. & G.) Porter
Solidago serotina Ait.
Solidago tortifolia Ell.
Solidago Wardii Britton
Sonchus arvensis L.
Spilanthes americana (Nutt.) Hieron., var. *repens* (Walt) A. H. Moore
Taraxacum pallustre (Lyons) Lam. & DC., var. *vulgare* (Lam.) Fernald
Verbesina virginica L.
Vernonia Baldwinii Torr.
Vernonia crinita Raf.
Vernonia missurica Raf.
Vernonia texana (A. Gray) Small
Xanthium pungens Waltr.
Xanthium saccaratum Wallr.
Zinnia multiflora L.