

MAY 20 1954

BIOLOGICAL SURVEY

of the

EAST TEXAS BIG THICKET AREA

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

Sponsored by

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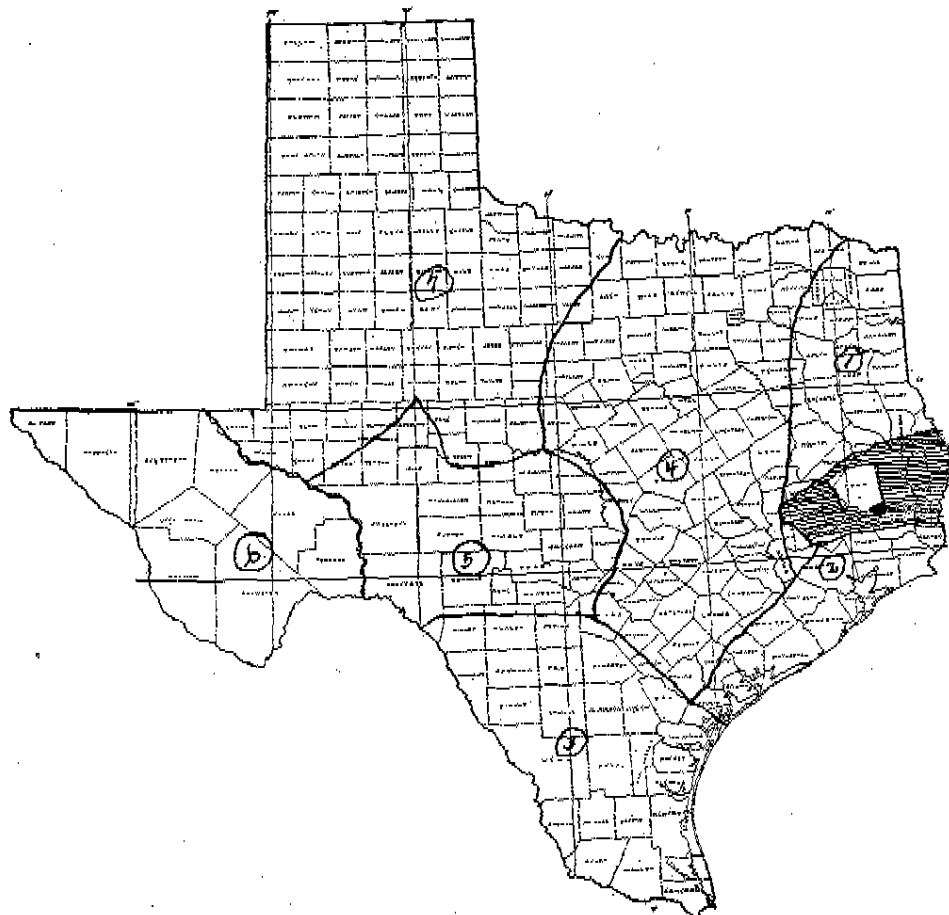
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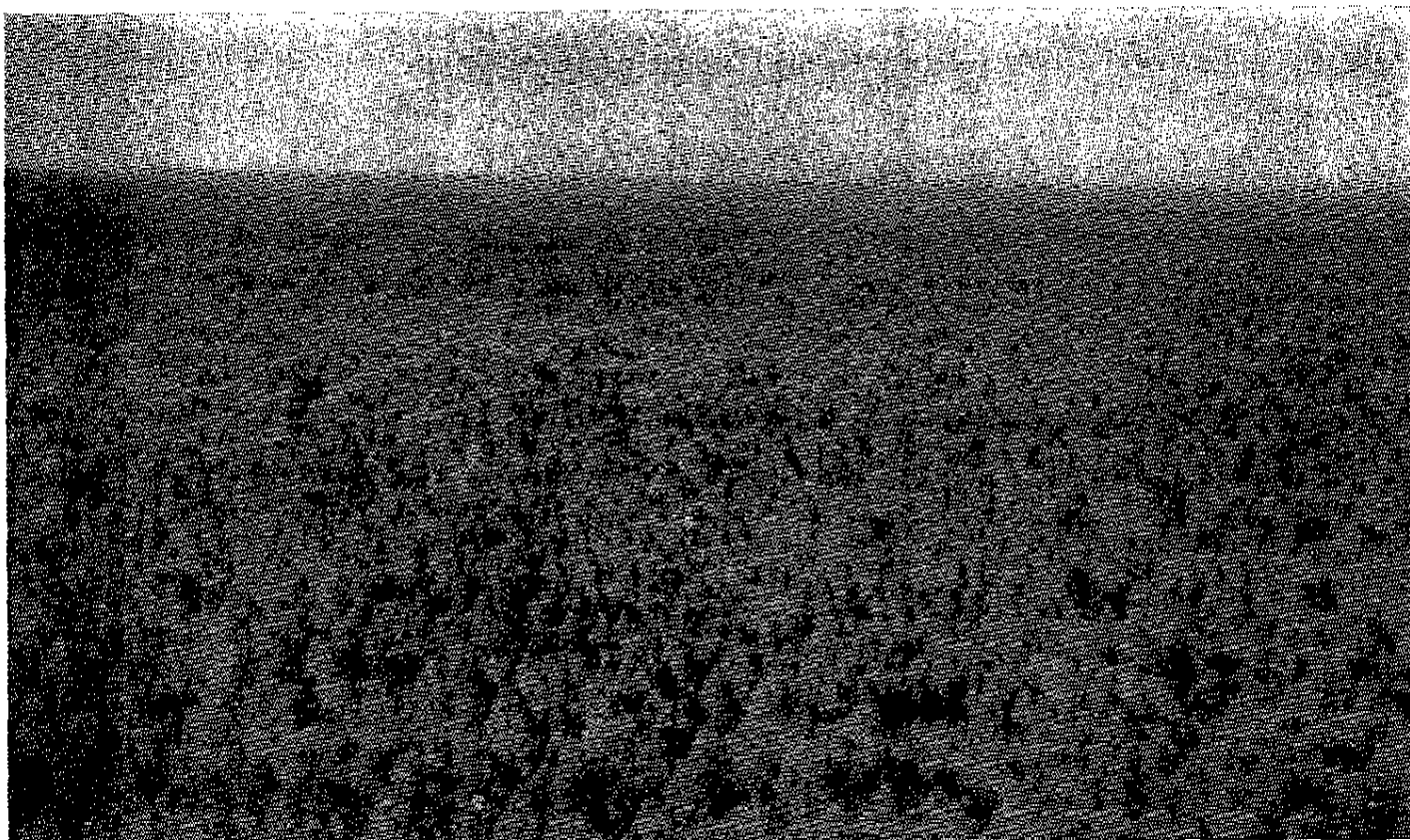
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PLANT AREAS OF TEXAS



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.



AERIAL VIEW OF THE BIG THICKET

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,
President of Texas Academy of Science,
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Huntsville, Texas.

A FEW BIG THICKET WORKERS



H. B. PARKS, Chief State Agricultural
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J. R. KEIG, Chairman Forestry
mittee, Beaumont Chamber
Commerce, Beaumont



R. E. JACKSON, President East Texas



DON O. BAIRD, President the

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 cover which hovers the mirage of the limitless plain, the cavalcade of the Spanish conquistadores 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 thousands of wild mustangs roamed throughout the year. Its boundaries contracted and 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 location cannot be found and where it was said to exist are now some of the most fertile 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 between the Missions and the sea there existed a forest so thick that it was impossible to traverse 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 places for plant growth, made a great impression on the early travelers in southeast Texas. It described it as the impenetrable wood which stopped them if they traveled inland to the Gulf prairie. The early migrants from the States, seeking new homes in the west, traveled south through East Texas until they reached the northern boundary of the Big Thicket and followed its northern boundaries toward the southwest; thus was the Nacogdoches-San Antonio trail established. Within the vastness of this primeval forest the Indians found a safe refuge from both Spanish and English-speaking peoples. Here, too, the larger wild animals could live unmolested; thus an area more than one hundred miles long and about fifty miles wide became the location for innumerable folk-lore stories, most of them based on fact. During the various forerunners of the Texas Revolution many of those who found themselves outnumbered in an attempt to set up independencies, found refuge along with the remnant of the aborigines within the confines of the Big Thicket. It was to the Big Thicket that the Texas revolutionaries had planned to go had not the zeal and patriotism of the small army of the Lone Star brought to a triumphant close that revolution.

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

Agriculture pressed in on this area from all sides and the demand for better material cut roads through and through the very depths of this place of mystery. 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 much of 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 neither ax nor plow has taken either the forest or the sod.

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

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.

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

DR. S. R. WARNER

Sam Houston State Teachers College

The Big Thicket of Texas is a temperate zone mesophytic jungle. There are enormous 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 go 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 these areas from it has been removed there is almost none at present. This is attributed to the browsing of cattle.

The earliest lumbering operations were carried on in the southern part of 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 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 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, hawthorn, hickory, pecan, persimmon, chinquapin, huckleberry, viburnum, buck red bay, plum, French mulberry, mulberry, grape, Virginia creeper, pawpaw, 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.

BIG THICKET ANIMALS

ARMADILLO

RACCOON

FAWN

FOX

LARRY JEAN FISHER
Official Photographer

EAST TEXAS BIG THICKET AREA

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. Kohn, 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

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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

Batomys taylori subater Bailey
Dusky Batomys

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 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 coccyzus
Butorides virescens
Oxyechus vociferus
Colinus virginianus
Meleagris gallopavo silvestris
Zenaidura macroura carolinensis
Columbigallina passerina Terrestris
Cathartes aura septentrionalis
Buteo borealis barlami
Buteo lineatus alleni
Falco sparverius
Syrnium varia alleni
Syrnium varium helveolum
Bubo 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 forticatus
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
Sedurus motacilla
Oporornis formosa
Icteria virens
Polioptila caerulea
Hyalocichla mustelina

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
Nycatanassa violaceus
Porzana sora
Philohela minor
Asio flammeus
Sturnella magna
Euphagus carolinus
Spinus pinus
Poocetes gramineus
Passerculus sandwichensis savanna
Junco hyemalis
Passerella iliaca
Pipilo erythrophthalmus
Dendroica coronata
Toxostoma rufum
Thryomanes bewickii
Troglodytes aldon
Certhia familiaris americana
Sitta canadensis
Planesticus migratorius

Blackcrow Heron
Yellowcrown Night
Sora
American Woodcock
Shortear Owl
Meadowlark
Rusty Blackbird
Pine Siskin
Vesper Sparrow
Savannah Sparrow
Slatecolor Junco
Foxcolored Sparrow
Towhee, 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

lichonyx oryzivorus
relajus phoeniceus
erus galbula
ranga erythromelas
lmynthophila pinus
lmynthophila chrysoptera
lmynthophila rubricophilla
lmynthophila celata
lmynthophila peregrina
ndroica coerulescens
ndroica magnolia
ndroica virens
iurus motacilla
tophoga ruticilla
gulus calendula

Bobolink
 Redwing Blackbird
 Baltimore Oriole
 Scarlet Tanager
 Bluewing Warbler
 Goldenwing Warbler
 Nashville Warbler
 Orange-crown Warbler
 Tennessee Warbler
 Blackthroat Blue Warbler
 Magnolia Warbler
 Blackthroat Green Warbler
 Louisiana Water Thrush
 Redstart
 Ruby-crown 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)

Alligator mississippiensis (Daudin) Alligator

SQUAMATA (Order)

SAURIA (Suborder)

Iguanidae (Family)

molis carolinensis (Voigt) Chameleon, Green Lizard
rhynchosoma cornutum (Harlan) Horned Toad
celaporus consobrinus consobrinus (Baird and Girard) Macey's Lizard
celaporus spinosus floridanus (Baird) Pine Lizard
celaporus undulatus undulatus (Latreille)

Anguidae (Family)

phisaurus ventralis (Linne) Glass or Joint Snake

Teiidae (Family)

nemidophorus sexlineatus (Linne) Striped Racehorse Lizard

Scincidae (Family)

umeces fasciatus (Linne) Bluetailed Skink, Redhead Skink
umeces laticeps (Schneider) Ground Lizard, Brown Lizard
leiolopisma laterale (Say)

SERPENTES (Suborder)

Leptotyphlopidae (Family)

leptotyphlops dulcis (Baird & Girard) Blind Snake

Colubridae (Family)

carphophis amoena vermis (Kennicott) Worm Snake
coluber constrictor flaviventris (Say) Blue Racer
coluber constrictor constrictor (Linne) Black Snake
diadophis punctatus strictogenys (Cope) Ringneck Snake
erymarchon corais couperi (Holbrook) Indigo Snake

Elaphe lacta (Baird & Girard)
Farancia abacura (Hallowell)
Heterodon eentortris (Linne)
Heterodon nasicus (Baird & Girard)
Lampropeltis calligaster (Harlan)
Lampropeltis getulus holbrooki (Stejneger)
Lampropeltis triangulum amaura (Cope)
Masticophis flagellum flagellum (Shaw)
Natrix fasciata fasciata (Linne)
Natrix fasciata confluenta (Blanchard)
Natrix grahami (Baird & Girard)
Natrix rhombifera (Hallowell)
Natrix taxispilota (Holbrook)
Natrix transversa (Hallowell)
Ophedrys aestivus (Linne)
Pituophis sayi sayi (Schlegel)
Potamophis striatulus (Linne)
Storeria dekayi (Holbrook)
Tantilla gracilis (Baird & Girard)
Thamnophis marianus (Baird & Girard)
Thamnophis sauritus proximus (Say)
Thamnophis sirtalis sirtalis (Linne)
Tropidoclonion lineatum (Hallowell)
Virginia valeriae elegans (Kennicott)

Elapidae (Family)

Micrurus fulvius (Linne) Coral Snake, Harlequin Snake

Crotalidae (Family)

Agkistrodon mokasen (Beauvois) Copperhead
Agkistrodon piscivorus (Lacepede) Cottonmouth Moccasin
Crotalus horridus atricaudatus (Latereille) Canebrake Rattler
Crotalus horridus horridus (Linne) Timber Rattlesnake
Sistrurus miliaris miliaris (Linne) Ground Rattler
Sistrurus miliaris streckeri (Gloyd) Strecker's Ground Rattler

SYNAPSIDA (Subclass)

TESTUDINATA (Order)

Kinosternidae (Family)

Kinosternon flavescens (Agassiz) Yellow Mud Turtle
Kinosternon subrubrum hippocrepis (Gray) Louisiana Mud Turtle
Sternotherus carinatus (Gray) Keeled Mud Turtle
Sternotherus odoratus (Latereille) Southern Musk Turtle

Chelydridae (Family)

Chelydra serpentina (Linne) Common Snapper
Macrochelys temminckii (Gray) Alligator Snapper

Testudinidae (Family)

Gopherus polyphemus (Daudin) Gopher Tortoise
Graptemys pseudogeographica kohnii (Baur) Cumberland Terrapin
Pseudemys elegans (Wied) Texas Terrapin
Pseudemys texana (Baur)
Terrapene major (Agassiz)
Terrapene ornata (Agassiz)
Terrapene triungis (Agassiz)
 Painted Box Turtle
 Three-toed Box Turtle

Trionychidae (Family)

Spotted Chicken Snake
 Mud or Horn Snake
 Puff or Spreading Adder
 Texas Spreading Adder
 Yellow-bellied King Snake
 Speckled King Snake
 Scarlet King Snake
 Coach Whip
 Southern Water Snake
 Water Snake
 Girard's Water Snake
 Diamond Back Water Snake
 Water Pilot
 Hallowell's Water Snake
 Rough Green Snake
 Bull Snake
 Brown Snake
 Dekay's Snake
 Sand Snake
 Macey's Garter Snake

Garter Snake
 Lined Snake
 Virginia Red Snake

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

Desmognathus glutinosus Green
Slimy Salamander

Family Sirenidae

Amphiuma lacertina Linne
Mud Eel

ORDER SALIENTIA

Family Scaphiopedidae

Scaphiopus holbrookii holbrookii Harlan
Spadefoot

Family Bufonidae

Bufa americana americana Holbrook
American Toad
Bufa fowleri German
Fowler's Toad
Bufa valliceps Wiegmann
Nebulous Toad

Family Hylidae

Hyla gryllus Le Conte
Cricket Frog
Hyla arenicolor nigrita clarki 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 chrysostelis 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

Ambystomophryne areolata Strecker
Ambystomophryne carolinensis Holbrook
Narrowmouth Toad
Ambystomophryne 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 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 Big 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
Leptosteuus olivaris (Raf.)
Yellow Cat, Mud Cat
Ameiurus melas (Raf.)
Bullhead, Eel Cat
Ictalurus punctatus (Raf.)
Channel Cat
Ictalurus furcatus (Cuvier & Valenciennes)

Family Catostomidae

(Suckers)

Ichthyobus bubalus (Raf.)
Carpionodes carpio (Raf.)
Carp Sucker
Erimyzon sucetta (Lac.)
Creek Sucker
Minytrema melanops (Raf.)
Striped Sucker
Moxostoma valenciennesi 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 crysoleucas (Mitchill)

Family Clupeidae

(Herring)

Dorosoma cepedianum (Le S.)
Gizzard Shad

Family Cyprinodontidae

Zygogonectes notatus (Raf.)
Top Minnow
Zygogonectes 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
Micropterus salmoides (Lac.)
Bass

Family Percidae

(Darters)

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

Family Serranidae

(Sea Bass)

Micropterus interruptus Gill
 Yellow Bass

Family Sciaenidae

(Croakers)

Sciaenops ocellatus 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 butterflies, 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 size of the 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 in 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* Mazzych

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 heterostrophia Say

Family Viviparidae

Campeloma Lewisii Walker

212 Species in State

Class Pelecypoda

(Bivalves)

Family Unionidae

(Fresh Water Mussels)

Anodonta grandis Say
Anodonta Ohioensis 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 plicata Conrad

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
Gibula 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 moist 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 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:

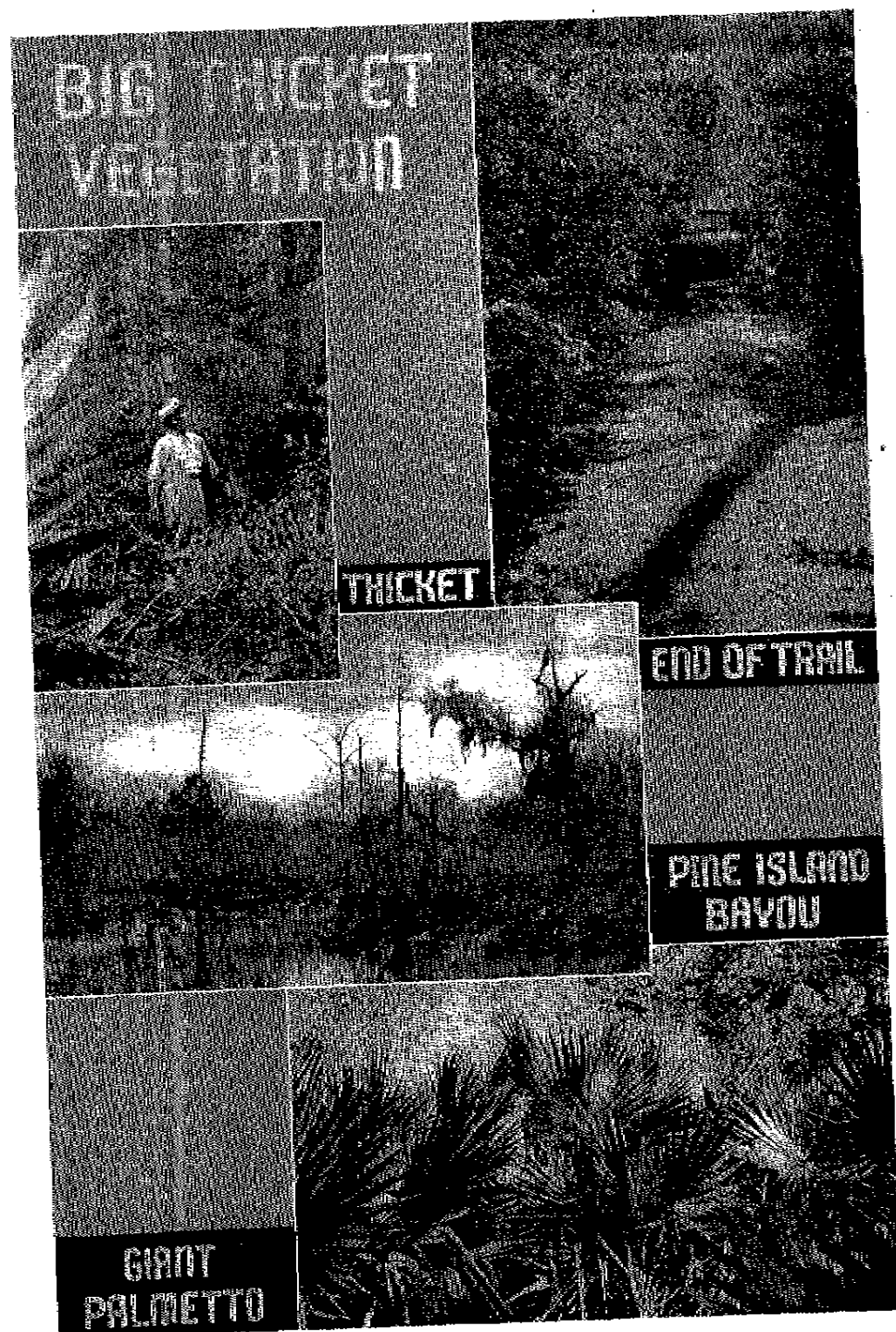
PLANTAE

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 a 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 print 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 cation 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. It is to be expected that...



TYPICAL
TREES

VIRGIN PINE

COW OAK

OPEN BEECH
FOREST

OXEN

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 as 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 and 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 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

HEPATICAE: 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 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 preservation 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

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

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

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

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

Sporobolus heterolepis A. Gray
Sporobolus neglectus Nash
Sporobolus Poirerii (R. & S.) Hitchc.
Sporobolus purpurascens (Sw.) Hamilt.
Stipa avenacea L. Blackseed Needlegrass
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 Eastern Gamagrass
Uniola latifolia Michx. Broadleaf Uniola
Uniola sessiliflora Poir.
Uniola laxa (L.) B.S.P.
Zizaniopsis miliaceae (Michx.) Doell & Aschers Southern Wild Rice
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 Louisiana 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. Northern Nut Grass
Cyperus filiculmis Vahl, var. *microdonta* (Torr.) Fern.
Cyperus globulosus Aubl.
Cyperus Haspan L.

Cyperus hystericinus Fernald
Cyperus lutescens Torr. & Hook.
Cyperus multiflorus (Britton) Small
Cyperus paniculatus Roth.
Cyperus Plankii Britton
Cyperus praelongatus Steud.
Cyperus reflexus Vahl.
Cyperus retrorsus Chapm., var. *cylindricus*
 (Ell.) Fern. & Griseb. Southern Nutgrass
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. Calamus Root
Arisaema Dracontium (L.) Schott Dragon Head
Pistia Stratiotes L.
Spirodela polyrrhiza (L.) Schleid.
Wolffia punctata Griseb.
Ericaulon compressum Lam.
Ericaulon decangulare L.
Ericaulon Koernickianum Van Heurck & Muell. Arg.
Lachnocaulon anceps (Walt.) Morong
Xyris ambigua Bevr.

Xyris flexuosa Muhl.
Xyris iridifolia Chapm.
Xyris torta J. E. Smith
Mayaca Aubletii Michx.
Commelina angustifolia 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 polycephalus 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 mohitense 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

Pickrel 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 furcatum Bicknell
Sisyrinchium Langloisii Greene
Sisyrinchium minus Engelm. & Gray
Sisyrinchium sagittiferum Bicknell
Sisyrinchium texanum Bicknell
Sisyrinchium Thurowii Coulter & Fisher
Sisyrinchium varians Bicknell
Blephariglossis 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.
Hexaletris 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 myristicaeformis (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
 Metnag 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.	
<i>Quercus nigra</i> L.	Water Oak
<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>leucophylla</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>Schneckii</i> (Britton) Sarg.	
<i>Quercus stellata</i> Wang.	
<i>Quercus undulata</i> Torr., var. <i>Vaseyana</i> Rydb.	
<i>Quercus velutina</i> Lamarck	
<i>Quercus virginiana</i> Miller	
<i>Celtis laevigata</i> Willd.	
<i>Celtis laevigata</i> Willd., var. <i>Smallii</i> (Beadle) Sarg.	
<i>Celtis laevigata</i> Willd., var. <i>texana</i> (Scheele) Sarg.	
<i>Celtis occidentalis</i> L., var. <i>crassifolia</i> (Lam.) A. Gray	
<i>Planera aquatica</i> (Walt.) Gmel.	
<i>Ulmus americana</i> L.	American Elm
<i>Maclura pomifera</i> (Raf.) Schneider	Bois de Arc
<i>Morus rubra</i> L.	Red Mulberry
<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 cinnabara</i> Banks	
<i>Erigonum longifolium</i> Nutt.	Eardrop Vine
<i>Erigonum multiflorum</i> Benth.	
<i>Polygonella articulata</i> (L.) Meisn.	
<i>Polygonum arifolium</i> L.	Coast Jointweed
<i>Polygonum Beyrichianum</i> (Cham. & Schlecht.) Small	Halbardleaf Tear Thumb
<i>Polygonum dumetorum</i> L.	
<i>Polygonum hydropiperoides</i> Michx.	
<i>Polygonum mississippiense</i> Stanford	
<i>Polygonum ramosissimum</i> Michx.	
<i>Polygonum scandens</i> L.	Bush Tear Thumb
<i>Polygonum setaceum</i> Baldw.	Vine False Buckwheat
<i>Rumex hastatulus</i> Baldw.	Bristle Persicaria
<i>Rumex obtusifolius</i> L.	
<i>Rumex pulcher</i> L.	Bitter Dock
<i>Rumex verticillatus</i> L.	
<i>Chenopodium album</i> L., forma <i>viride</i> (L.) Aellen	Swamp Dock
<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 sinosii</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 biternatum</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>Calycocarpum 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. Shepherd's Purse
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. Mitche., 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 Watercress
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 Pitcherplant
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 Stryaciflua 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.) Parsley Haw
Crataegus opaca Hook.
Crataegus spathulata Michx.
Crataegus subglobulata Sarg.
Crataegus triantophora Sarg.
Crataegus trimorphalis Sarg.
Crataegus unguis Sarg.
Crataegus velutina Sarg.
Crataegus viburnifolia Sarg.
Crataegus viridis L.
Crataegus Warneri Sarg.
Geum canadense Rydb.

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. Mexican Plum
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. McCartney's Rose
Rosa carolina L.
Rosa carolina L., var. *glandulosa*
Rosa foliolosa Nutt.
Rosa Lyoni Pursh
Rosa Micrantha Borrer
Rosa Palmeri Rydb.
Rosa setigera Michx., 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. Huisache
Aeschynomene viscidula Michx.
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.

Dalea euneandra 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 prairea (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 canadensis 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 psoralicoides (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 Beatherman
Tephrosia leucosericea (Rydb.) Cory
Tephrosia onobrychoides Nutt.
Tephrosia spicata Walt.
Tephrosia texana (Rydb.) Cory
Tephrosia virginiana (L.) Pers.
Trifolium amphotanthum T. & G.
Trifolium bejariense morie
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.) Grmel.
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

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.
Gnidoscolus 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 longicursus Scheele
Euphorbia malaca (Small) Little
Euphorbia obtusata Pursh
Euphorbia polyclada Boiss.
Euphorbia tetrapora Engelm.
Phyllanthus carolinensis Walt.
Sabastina ligustrina (Michx.) Muell. Arg.
Stillingia sylvatica L.
Tragia urticifolia Michx.
Callitriche deflexa A. Br.
Callitriche deflexa A. Br., var. *austini* (Engelm.)
 Heglem.
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 corymbifolia L.
Ascyrum hypericoides L.
Ascyrum limifolium 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 patilionacea 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 Rottb.
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
Chaprophyllum 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. *paupercula* (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

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

<i>Monarda punctata</i> L.	Perennial Sandyland Hor
<i>Monarda punctata</i> L., var. <i>villicaulis</i> Pennell	
<i>Nepeta Cataria</i> L.	Catnip
<i>Perilla frutescens</i> (L.) Britton	Beefsteak Plant
<i>Physostegia denticulata</i> (Ait.) Britton	
<i>Physostegia intermedia</i> (Nutt.) Engelm. & Gray	
<i>Physostegia virginiana</i> (L.) Benth., var. <i>speciosa</i> A. Gray	
<i>Prunella vulgaris</i> L.	Self-heal
<i>Pycnanthemum albescent</i> T. & G.	Whiteleaf Mountain Mint
<i>Pycnanthemum flexuosum</i> (Walt.) B. S. P.	Narrowleaf Mountain M
<i>Salvia azurea</i> Lam.	
<i>Salvia coccinea</i> L.	
<i>Salvia farinacea</i> Benth.	Mealy Sage
<i>Salvia lyrata</i> L.	Lyreleaf Sage
<i>Satureja glabra</i> (Nutt.) Fernald	
<i>Scutellaria brevifolia</i> A. Gray	
<i>Scutellaria cardiophylla</i> Engelm. & Gray	
<i>Scutellaria Drummondii</i> Benth.	
<i>Scutellaria epilobifolia</i> A. Hemilt.	
<i>Scutellaria integrifolia</i> L.	Hyssop Skullcap
<i>Scutellaria integrifolia</i> L., var. <i>hispidula</i> Benth.	
<i>Scutellaria parvula</i> Michx.	Small Skullcap
<i>Teucrium canadense</i> L., var. <i>virginicum</i> (L.) Eaton	
<i>Teucrium occidentale</i> A. Gray, var. <i>boreale</i> (Bicknell) Fernald	
<i>Trichostema dichotomum</i> L.	Blue Curls
<i>Lycopersicon esculentum</i> Mill., var. <i>commune</i> Bailey	
<i>Physalis heterophylla</i> Nees	Clammy Ground Cherry
<i>Physalis lanceolata</i> Michx.	
<i>Physalis longifolia</i> Nutt.	
<i>Physalis microphysa</i> Rydb.	
<i>Physalis mollis</i> Nutt.	
<i>Physalis pumila</i> Nutt.	Low Ground Cherry
<i>Physalis virginiana</i> Mill., var. <i>intermedia</i> Rydb.	
<i>Physalis turbinata</i> Medic.	
<i>Solanum aculeatissimum</i> Jacq.	
<i>Solanum carolinense</i> L.	Horse Nettle
<i>Solanum Penderli</i> A. Gray	
<i>Solanum sisymbriifolium</i> Lam.	
<i>Bacopa acuminata</i> (Walt.) Robinson	
<i>Bacopa procumbens</i> (Mill) Greenm., var. <i>peduncularis</i> (Benth.) Fernald	
<i>Bacopa rotundifolia</i> (Michx.) Wettst.	
<i>Buchnera floridana</i> Gandoger	
<i>Castilleja indivisa</i> Engelm.	Entireleaf Painted Cup
<i>Collinsia violacea</i> Nutt.	Violet Collinsia
<i>Conoclea multifida</i> (Michx.) Benth	
<i>Gerardia auriculata</i> Michx.	
<i>Gerardia fasciculata</i> Ell.	
<i>Gerardia flava</i> L., var. <i>reticulata</i> (Raf.) Cory	
<i>Gerardia grandiflora</i> Benth.	
<i>Gerardia grandiflora</i> Benth., var. <i>cinerea</i> (Pennell) Cory	
<i>Gerardia grandiflora</i> Benth., var. <i>serrata</i> (Torr.) Robinson	
<i>Gerardia Gattingeri</i> Small	
<i>Gerardia heterophylla</i> Nutt.	
<i>Gerardia homolantha</i> (Pennell) Pennell	
<i>Gerardia purpurea</i> L.	
<i>Gratiola brevifolia</i> Raf.	
<i>Gratiola flava</i> Leavenw. apud Pennell	
<i>Gratiola neglecta</i> Torr.	
<i>Gratiola pilosa</i> 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 tubaeformis</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.	
<i>Utricularia gibba</i> L.	Swollenspurled Bladderwort
<i>Utricularia inflata</i> Walt.	
<i>Utricularia macrorhiza</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 Halei</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.	
<i>Sambucus canadensis</i> L.	American Elder
<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 scaberrimum</i> (T. & G.) Chapm. (U. semitomentosum Rehder)	
<i>Valerianella radiata</i> (L.) DuRoi.	
<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 appendiculata</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 artemisiifolia</i> L., var. elatior (L.) Desc.	Lanceleaf Ragweed
<i>Ambrosia bidentata</i> Michx.	
<i>Ambrosia psilostachya</i> DC.	Horseweed
<i>Ambrosia trifida</i> L.	
<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 linariifolius</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 divaricatus</i> Michx.	
<i>Erigeron pulchellus</i> Michx.	
<i>Erigeron quercifolius</i> Lam.	
<i>Erigeron quercifolius</i> Lam.	

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 Reichenb., var. *angustatum* (A. Gray) Robinson
Gaillardia chrysantha Small
Gaillardia pulchella Poug. Showl *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 ampullaceus 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 Gattingei 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 Waltr.
Zinnia multiflora L.