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BIG THICKET NATIONAL PRESERVE

BIOLOGICAL SURVEY

of the

EAST TEXAS BIG THICKET AREA

By

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

Sponsored by

SAM HOUSTON STATE TEACHERS COLLEGE

C. N. Shaver, President, Huntsville

TEXAS AGRICULTURAL EXPERIMENT STATION

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THE TEXAS ACADEMY OF SCIENCE

Don O. Baird, President, Huntsville

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1971
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"The wildlife of the world is not ours, to dispose of wholly as we please. We hold it in trust, for the benefit of ourselves and for equal benefit to those who come after us."

WM. T. HORNADAY

BIG THICKET NATIONAL PRESERVE

THE FAUNA AND FLORA
OF
THE BIG THICKET AREA

By

H. B. PARKS AND V. L. CORY

of the

TEXAS AGRICULTURAL EXPERIMENT STATION

AND OTHERS

SECOND EDITION

1938

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DON O. BAIRD, State Teachers College,
Huntsville, Texas

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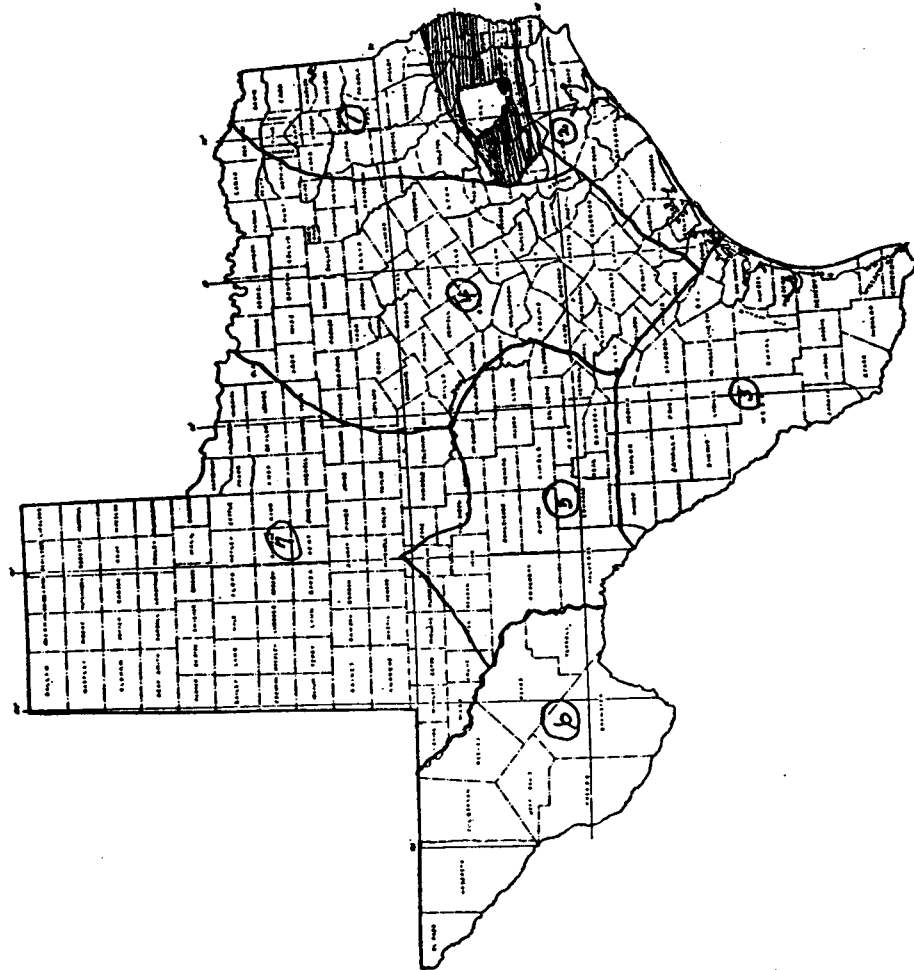
PLANT AREAS OF TEXAS

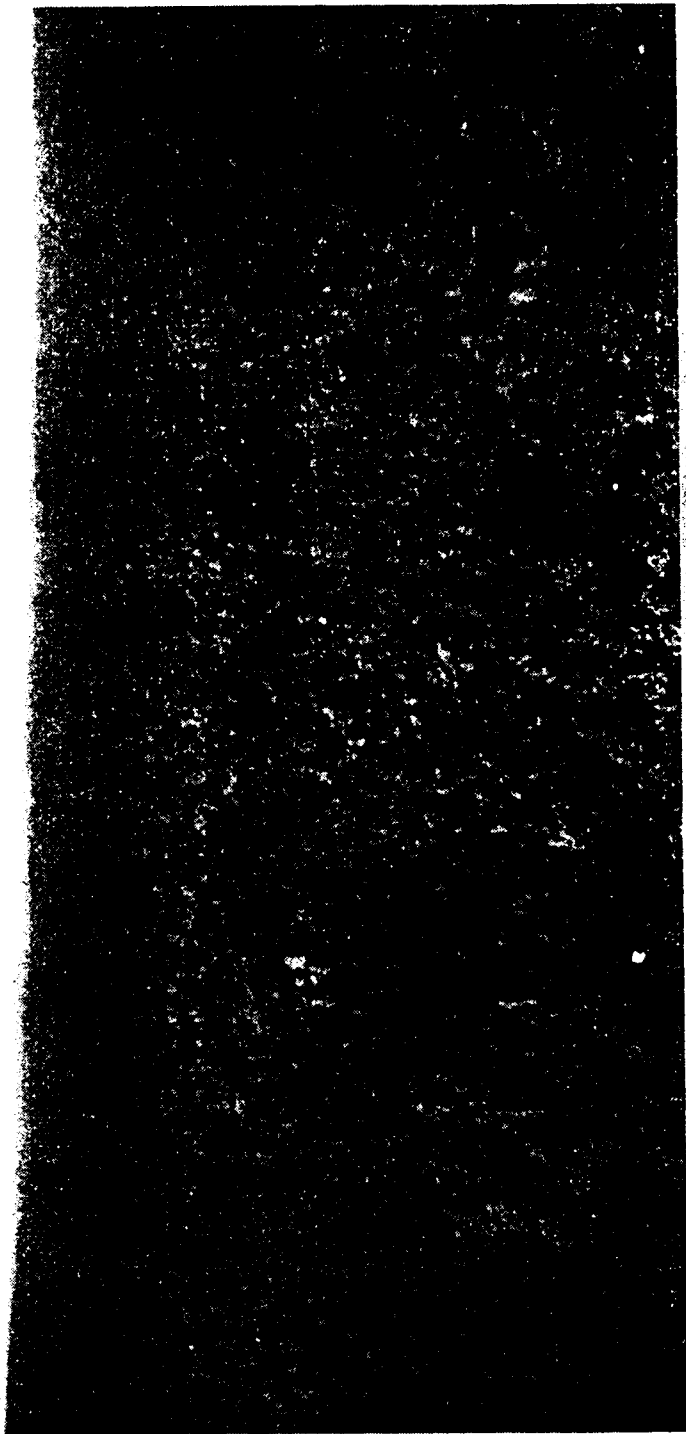
1. Timber Belt.
2. Coastal Prairies.
3. Rio Grande Plains.
4. Prairies.
5. Edwards Plateau.
6. Trans Pecos.
7. Plains.

● Jackson's lease, approximately 18,000 Acres.

□ Proposed Reservation, approximately 435,000 Acres.

■ Original Big Thicket, approximately 3,350,000 Acres.





RECEIVED
JAN 10 1964
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WASHINGTON, D.C.

LARRY JEAN FISHER
Official Photographer

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.

We are deeply indebted to Dr. Harry C. Oberholser, Senior Biologist, Bureau of Biological for checking the Bird list, and to Dr. E. A. Goldman and Dr. A. H. Howell for checking the mammal list, to Dr. F. M. Uhler for checking the reptile and amphibian list, to Dr. Leonard P. Schultz for checking the fish and to Dr. Paul Bartsch for checking the mollusca. To these gentlemen, all of the U. S. Biological Survey, Washington, D. C., are due our thanks for this great help in increasing the accuracy of this bulletin.

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,
Professor of Biology,
Sam Houston State Teachers College,
Huntsville, Texas.

A FEW BIG THICKET WORKERS



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



J. R. KEIG, Chairman Forestry Com-
mittee, Beaumont Chamber of
Commerce, Beaumont



R. E. JACKSON, President East Texas
Big Thicket Association, Silsbee



DON O. BAIRD, President the Texas
Academy of Science, Huntsville

PREFACE

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

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

H. B. PARKS,

V. L. CORY.

INTRODUCTION

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

The first of these is the Llano Estacado. As late as 1850 this area was a white blotch in the southwestern part of the map of the United States with Fort Worth as its eastern border. From that time until now this area has wandered over West Texas and at the present time the name alone exists. Where once were thousands of acres of sand blown prairie dotted here and there by the estacado of the yucca plant, and where 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 reality over 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 more vague than those of the Llano Estacado. It was somewhere south of San Antonio, a plain 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 late as 1875 a map shows sections of McMullen, La Salle, Webb, and Duval as being the 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 fruitful farms, ranches, and oil wells of Texas.

The third is the Big Thicket. Just who first made reference to it is unknown. The 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 went 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. They described it as the impenetrable wood which stopped them if they traveled inland across the Gulf prairie. The early migrants from the States, seeking new homes in the Southwest, 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 aged 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 revolutionists 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 east of the Brazos River. By the time of the Revolution its boundaries were yet wide flung. 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, renegade whites, and run-away blacks were said to exist.

Agriculture pressed in on this area from all sides and the demand for building 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 were taken from the depths of this forest, yet today even though man has taken much from the Big Thicket, it still covers an immense territory. Some places, it is true, there are gaps wherein grow magnificent crops of corn and cotton. There are bald hills where once stately pines stood triumphant, but the Big Thicket still exists and still holds for those who wish to see nature untouched by man, mile after mile, where neither the ax nor plow has taken either the forest or the soul.

There still exist vast strips of virgin forest protecting a ground cover of some of the most beautiful and interesting low trees and shrubs in the world, which in turn

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 protected wild life preserve.

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 numerous small areas of similar vegetation scattered throughout the flatwoods of the 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 in the past has been mainly pine, and that remaining is largely the original growth of magnolia, white oak, gums, and other shade tolerant hardwoods.

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

The earliest lumbering operations were carried on in the southern part of the region contiguous to the Santa Fe Railroad and were apparently less drastic than those of the past twenty years, as only the pine and choicer oaks were removed. The northwestern part of the area which was cut once during a period from 25 to 10 years ago, 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.

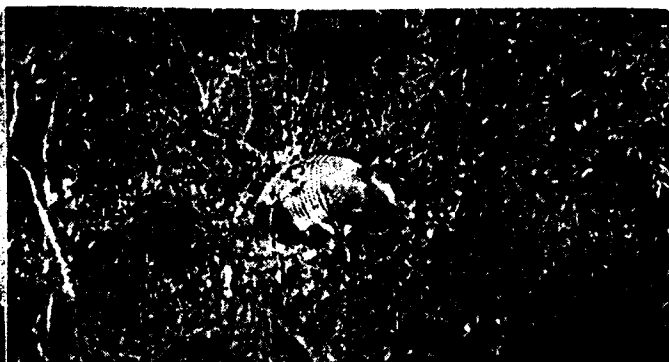
The Big Thicket forest offers the United States government an exceptionally good investment on a forestry basis aside from its game and recreational values. There is no region in the South where the annual increment per acre in tree growth is so great. Here is found a combination of topography, soil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

REMARKABLE GAME CAPACITY

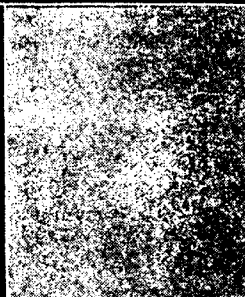
The game capacity is as remarkable as its timber productiveness. The heavy mast production from the oaks, magnolia, beech, maple, gum, tupelo, holly, dogwood, linden, hawthorn, hickory, pecan, persimmon, chinquapin, huckleberry, viburnum, buckthorn, red bay, plum, French mulberry, mulberry, grape, Virginia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

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

**BIG
HICKET
MOUNTAIN**



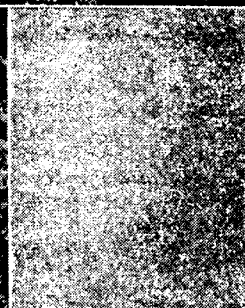
ARMADILLO



RACCOON



FAWN



FOX

LARRY JEAN FISHER
Official Photographer

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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 inhabited this section since long before the coming of the white man to this continent. The list given is based on "The Biological Survey of Texas" by Vernon Bailey. The form of this list and sequence of species has been taken from "A List of North American Recent Mammals" by G. S. Miller. Additions were made from "A Check List of the Mammals of Texas Exclusive of the Sirenia and Cetacea" by J. K. Strecker. Additions and corrections have been made by A. J. Kirn, biologist, Somerset, Texas, and Dr. Walter P. Taylor, Senior Biologist, Texas Cooperative Wildlife Service. This list is in no way complete and this section offers excellent opportunity for research. As 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, as much information is yet at hand as to animals which once existed in this territory but are now absent.

THE MAMMALS OF THE BIG THICKET

Class Mammalia

ORDER MARSUPIALIA

(Pouched Mammals)

Family Didelphiidae

(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 Beauvois
Large Brown Bat
Nycteris borealis borealis (Müller)
Red Bat
Nycteris borealis seminola Rhoads
Florida Red Bat
Nycticeius humeralis Rafinesque
Evening Bat

ORDER CARNIVORA

(Flesh-eaters)

Family Ursidae

(Bears)

Euarctos luteolus Griffith
Louisiana Bear

Family Procyonidae
(Raccoons)

Procyon lotor fuscipes Mearns
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 texensis Goldman
Otter

Spilogale indianola Merriam
Gulf Spotted Skunk

Memphitis mephitis mesomelas Lichtenstein
Louisiana Skunk

Conepatus mesoleucus telmalestes Bailey
White-backed Skunk

Family Canidae
(Foxes, Wolves, Dogs)

Vulpes fulva Desmarest
Red Fox

Urocyon cinereoargenteus floridanus Rhoads
Florida Gray Fox

Canis rufus gregoryi Goldman
Mississippi Valley Wolf

Family Felidae
(Cats)

Felis onca veracrucis Nelson and Goldman
Jaguar, Mexican Tiger

Felis pardalis griffithii Fischer
Mexican Ocelot, Leopard Cat

Felis concolor youngi Goldman
Texas Puma

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 volans texensis Howell
Texas Flying Squirrel

Family Geomyidae
(Pocket Gophers)

Geomys breviceps breviceps Baird
Louisiana Pocket Gopher

Family Heteromyidae
(Pocket Rats and Mice)

Perognathus hispidus hispidus Baird
Hispid Pocket Mouse

Family Castoridae
(Beavers)

Castor canadensis texensis Bailey
Texas Beaver

Family Cricetidae
(Rats, Mice, and Voles)

Reithrodontomys humulis merriami Allen
Merriam Harvest Mouse
Reithrodontomys fulvescens aurantius Allen
Louisiana Harvest Mouse
Baiomys taylori subater Bailey
Dusky Baiomys
Peromyscus leucopus texanus Woodhouse
Whitefoot Mouse
Peromyscus gossypinus megacephalus Rhoads
Pine Woods Mouse
Oryzomys palustris texensis Allen
Texas Rice Rat
Sigmodon hispidus texianus Audubon & Bachman
Texas Cotton Rat
Neotoma floridana rubida Bangs
Swamp Wood Rat, Ruddy Wood Rat
Neotoma floridana attwateri Mearns
Attwater Wood Rat
Microtus ludovicianus Bailey
Louisiana Vole
Ondatra rivalicia Bangs
Muskrat

Family Muridae
(Old World Rats and Mice)

Rattus norvegicus Erxleben
Wharf Rat, Norway Rat
Mus musculus musculus Linnaeus
House Mouse

ORDER LAGOMORPHA

Family Leporidae
(Hares and Rabbits)

Sylvilagus floridanus alacer Bangs
Oklahoma Cottontail
Sylvilagus aquaticus aquaticus Bachman
Swamp Rabbit

ORDER ARTIODACTYLA
(Even-toed Ungulates)

Family Cervidae
(Deer)

Odocoileus virginianus texanus Mearns
Texas Whitetailed Deer

ORDER XENARTHRA

Family Dasypodidae
(Sloths, Ant-eaters, Armadillos)

Dasypus novemcinctus texanus Bailey
Texas Nine-banded Armadillo

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.

The names used in this list are from the A. O. U. Check List of 1931. These names are given in the order of the A. O. U. Check List of 1910.

BIRDS OF THE BIG THICKET

RESIDENT BIRDS

Podilymbus podiceps podiceps
Anhinga anhinga
Aix sponsa
Mycteria americana
Florida caerulea caerulea
Oxyechus vociferus vociferus
Colinus virginianus virginianus
Meleagris gallopava silvestris
Zenaidura macroura marginella
Columbigallina passerina terrestris
Cathartes aura teter
Buteo jamaicensis borealis
Buteo lineatus alleni
Strix varia alleni
Bubo virginianus virginianus
Otus asio horridus
Megascops alcyon alcyon
Dryobates villosus auduboni
Dryobates pubescens pubescens
Dryobates borealis
Phloeotomus pileatus pileatus

Melanerpes erythrocephalus erythrocephalus

Centurus carolinus
Colaptes auratus auratus
Campephilus principalis
Cyanocitta cristata cristata
Corvus brachyrhynchos paulus
Molothrus ater
Quiscalus aeneus
Spizella passerina passerina
Peucaea aestivalis bachmanii
Cardinalis cardinalis magnirostris
Passer domesticus domesticus
Vireo griseus
Mimus polyglottos polyglottos
Thryothorus ludovicianus ludovicianus
Sitta pusilla pusilla
Baeolophus bicolor
Penthestes carolinensis carolinensis

Pied-billed Grebe
 Snake bird, darter
 Wood duck
 Wood Ibis
 Little Blue Heron
 Killdeer
 Eastern Bobwhite, quail
 Eastern Turkey
 Western Mourning Dove
 Eastern Ground Dove
 Western Turkey Buzzard
 Eastern Red-tailed Hawk
 Florida Red-shouldered Hawk
 Florida Barred Owl
 Great Horned Owl
 Florida Screech Owl
 Eastern Belted Kingfisher
 Southern Hairy Woodpecker
 Southern Downy Woodpecker
 Red-cockaded Woodpecker
 Southern Pileated Wood-
 pecker
 Eastern Red-headed Wood-
 pecker
 Red-bellied Woodpecker
 Southern Flicker
 Ivory-billed Woodpecker
 Southern Blue Jay
 Southern Crow
 Cowbird
 Bronzed Grackle
 Eastern Chipping Sparrow
 Bachman Sparrow
 Louisiana Cardinal
 English Sparrow
 White-eyed Vireo
 Eastern Mockingbird
 Carolina Wren
 Brown-headed Nuthatch
 Tufted Titmouse
 Carolina Chickadee

Sialis sialis sialis
Dendroica pinus pinus
Nycticorax nycticorax naevius
Nyctanassa violacea violacea
Philohela minor
Sturnella magna argutula

Eastern Bluebird
 Northern Pine Warbler
 Black-crowned Night Heron
 Yellow-crowned Night Heron
 American Woodcock
 Southern Meadowlark

POSSIBLE RESIDENTS

Egretta thula thula

Snowy Egret

SUMMER RESIDENTS

Elanoides forficatus
Botaurus lentiginosus
Coccyzus americanus americanus
Antrostomus carolinensis
Chordeiles minor chapmani
Archilochus colubris
Muscivora forficata
Tyrannus tyrannus tyrannus
Myiarchus crinitus boreus
Myiochanes virens
Empidonax virescens
Icterus spurius
Icterus galbula
Piranga rubra rubra
Progne subis subis
Vireo olivacea
Vireo flavifrons
Protonotaria citrea
Compsothlypis americana ramalinae
Dendroica dominica albilora
Guiraca caerulea caerulea
Seiurus motacilla
Oporonis formosus
Icteria virens virens
Poliophtila caerulea caerulea
Hylocichla mustelina
Casmerodius albus egretta
Butorides virescens virescens
Chaetura pelagica

Swallow-tailed Kite
 American Bittern
 Yellow-billed Cuckoo
 Chuckwillswidow
 Florida Nighthawk
 Ruby-throated Hummingbird
 Scissor-tailed Flycatcher
 Eastern Kingbird
 Northern Crested Flycatcher
 Eastern Wood Pewee
 Acadian Flycatcher
 Orchard Oriole
 Baltimore Oriole
 Summer Tanager
 Purple Martin
 Red-eyed Vireo
 Yellow-throated Vireo
 Prothonotary Warbler
 Western Parula Warbler
 Sycamore Warbler
 Eastern Blue Grosbeak
 Louisiana Waterthrush
 Kentucky Warbler
 Yellow-breasted Chat
 Blue-gray Gnatcatcher
 Wood Thrush
 American Egret
 Eastern Green Heron
 Chimney Swift

WINTER RESIDENTS

Porzana carolina
Asio flammeus flammeus
Sphyrapicus varius
Euphagus carolinus
Spinus pinus pinus
Poocetes gramineus gramineus
Passerculus sandwichensis savanna
Junco hyemalis hyemalis
Passerella iliaca iliaca
Pipilo erythrophthalmus erythrophthalmus
Dendroica coronata coronata
Toxostoma rufa
Thryomanes bewickii bewickii
Troglodytes aedon parkmanii
Certhia familiaris americana
Sitta canadensis
Turdus migratorius migratorius
Sayornis phoebe
Falco sparverius sparverius

Sora
 Short-eared Owl
 Yellow-bellied Sapsucker
 Rusty Blackbird
 Northern Pine Siskin
 Eastern Vesper Sparrow
 Eastern Savanna Sparrow
 Slate-colored Junco
 Eastern Fox Sparrow
 Red-Eyed Towhee Chewink
 Eastern Myrtle Warbler
 Brown Thrasher
 Bewick Wren
 Western House Wren
 Brown Creeper
 Red-breasted Nuthatch
 Eastern Robin
 Eastern Phoebe
 American Sparrow Hawk

FALL AND SPRING MIGRANTS

Coccyzus erythrophthalmus
Antrostomus vociferus vociferus
Empidonax flaviventris
Piranga erythromelas
Vermivora pinus
Vermivora chrysoptera
Vermivora ruficapilla ruficapilla
Vermivora celata celata
Vermivora peregrina
Dendroica caerulescens caerulescens
Dendroica magnolia
Dendroica virens virens
Setophaga ruticilla
Corthylio calendula calendula

Black-billed Cuckoo
 Eastern Whippoorwill
 Yellow-bellied Flycatcher
 Scarlet Tanager
 Blue-winged Warbler
 Golden-winged Warbler
 Nashville Warbler
 Orange-crowned Warbler
 Tennessee Warbler
 Black-throated Blue Warbler
 Magnolia Warbler
 Black-throated Green
 Warbler
 American Redstart
 Eastern Ruby-crowned 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. B. 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)

Anolis carolinensis Voigt Chameleon, Green Lizard
Holbrookia propinqua propinqua (Baird & Girard) East Texas Sand Lizard
Phrynosoma cornutum (Harlan) Horned Toad
Sceloporus consobrinus consobrinus (Baird and Girard) Marcy's Lizard
Sceloporus spinosus floridanus (Baird) Pine Lizard
Sceloporus undulatus undulatus (Latreille)

Anguidae (Family)

Ophisaurus ventralis (Linne) Glass or Joint Snake

Teiidae (Family)

Cnemidophorus sexlineatus (Linne) Striped Racehorse Lizard

Scincidae (Family)

Eumeces fasciatus (Linne) Bluetailed Skink, Redhead Skink
Eumeces laticeps (Schneider) Ground Lizard, Brown Lizard
Leiopisma 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 arnyi Cope Rattle-neck Snake
Drymarchon corais couperi (Holbrook) Indigo Snake

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

THE AMPHIBIANS OF THE BIG THICKET

Class Amphibia

ORDER CAUDATA

Family Salamandridae

Triturus viridescens viridescens (Rafinesque)

Common Newt (aquatic form); Red Eft (terrestrial form)

Triturus meridionalis (Cope)
Texas Newt

Family Ambystomidae

Ambystoma maculatum (Shaw)
Spotted Salamander
Ambystoma opacum (Gravenhorst)
Marbled Salamander
Ambystoma texanum (Matthes)
Texas Salamander
Ambystoma tigrinum (Green)
Tiger Salamander

Family Plethodontidae

Plethodon glutinosus (Green)
Slimy Salamander

Family Sirenidae

Siren intermedia Le Conte
Mud eel
Siren lacertina Linne
Mud eel

ORDER SALIENTIA

Family Scaphiopodidae

Scaphiopus holbrookii holbrookii (Harlan)
Spadefoot

Family Bufonidae

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

Family Hylidae

Acris gryllus (Le Conte)
Cricket Frog
Pseudacris nigrita clarki Baird
Striped Tree Frog
Pseudacris nigrita occidentalis (Baird & Girard)
Tree Frog
Pseudacris streckeri Wright & Wright
Texas Ornate Chorus Frog
Hyla cinerea cinerea (Schneider)
Green Tree Frog
Hyla femoralis Latreille
Pine Woods Tree Frog
Hyla squirella Latreille
Southern Tree Frog
Hyla versicolor versicolor (Le Conte)
Tree-toad, Rain-toad
Hyla versicolor chrysoscelis (Cope)
Cope's Tree Frog

Family Ranidae

Rana areolata Baird and Girard
Texas Gopher Frog
Rana catesbeiana Shaw
Bull Frog
Rana sphenoccephala (Cope)
Southern Leopard Frog
Rana pipiens pipiens Schreber
Spotted Green Frog

Family Brevicipitidae

Gastrophryne areolata (Strecker)
Gastrophryne carolinensis (Holbrook)
Narrowmouth Toad
Gastrophryne texensis (Girard)
Texas Narrowmouth Toad

FISH OF THE BIG THICKET

The terrain of the Big Thicket being an almost level plain of goodly dimensions crossed by the Sabine, Neches, Angelina, Trinity and San Jacinto Rivers and dissected by the tributaries of these rivers presents a condition where numerous species of fish are to be found. The list given was taken from "The Fishes of Texas and the Rio Grande Basin" by Evermann and Kendall. No other list can be found that makes special reference to fishes that have been collected within the confines of the Big Thicket. Because of the numerous waterways, the excellent cover, and little pollutions 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 | Ictalurus punctatus (Raf.) |
| Leptops olivaris (Raf.) | Channel Cat |
| Yellow Cat, Mud Cat | Ictalurus furcatus (Cuvier & Valenciennes) |
| Ameiurus melas (Raf.) | |
| Bullhead, Eel Cat | |

Family Catostomidae

(Suckers)

- | | |
|-------------------------|-----------------------------|
| Ictiobus bubalus (Raf.) | Minytrema melanops (Raf.) |
| Carpiodes carpio (Raf.) | Striped Sucker |
| Carp Sucker | Moxostoma poecilurum Jordan |
| Erimyzon sucetta (Lac.) | |
| Creek Sucker | |

Family Cyprinidae

(Minnows)

- | | |
|--------------------------------------|--------------------------------------|
| Camptostoma anomalum (Raf.) | Notropis lutrensis (B. & G.) |
| Stone-roller | Notropis venustus cercostigma (Cope) |
| Hybognathus nuchalis Agassiz | Notropis texanus (Grd.) |
| Hypargyrus velox B. & G. | Notropis dilectus (Grd.) |
| Ceraticthys vigilax (B. & G.) | Notropis notemigonoides Evermann |
| Notropis nux Evermann | Phenacobius mirabilis (Grd.) |
| Notropis sabiniae J. & G. | Opsopoeodus oculus Evermann |
| Notropis volueillus nocomis Evermann | Notemigonus chrysoleucus (Mitchill) |

Family Clupeidae

(Herring)

- Dorosoma cepedianum (Le S.)
Gizzard Shad

Family Cyprinodontidae

- | | |
|----------------------------|-------------------------------|
| Zygionectes notatus (Raf.) | Zygionectes escambiae Bollman |
| Top Minnow | Gambusia affinis (B. & G.) |

Family Esocidae

(Pike)

- Esox 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. | Fenotis megalotis (Raf.) |
| Crappie | Long-eared Sunfish |
| Pomoxis sparoides (Lac.) | Allotis humilis (Grd.) |
| Calico Bass | Red-spotted Sunfish |
| Chaenobryttus gulosus (C. & V.) | Lenomis pallidus (Mitchill) |
| Goggle-eye | Blue Sunfish |
| Apomotis cyanellus Raf. | Huro floridana (Le Sueur) |
| Blue-spotted Sunfish | Big-mouthed Black Bass |

Family Etheostonidae

(Darters)

Etheostama pellucidum clarum (Jordan & Meek)

Sand Darter

Ammocrypta vivax Hay*Ulocentra phlox* (Cope)*Boleosoma camurum* Forbes*Percina caprodes* (Raf.)

Log Perch

Etheostoma scierum serrula (J. & G.)*Poecilichthys jessiae* (Jordan & Brayton)*Boelichthys fusiforme* (Grd.)**Family Moronidae**

(White Bass)

Morone interrupta Gill

Yellow Bass

Family Sciaenidae

(Croakers)

Aplodinotus grunniens Raf.

Fresh-water Drum

ARACHNIDA-INSECTA-CRUSTACEA

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

ARACHNIDA: the spiders and their allies are found in their greatest number within 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 the 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 monster 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 huge 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 flats almost every variety of fresh water crustacea, thus offering an attractive opportunity for investigation.

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 courses at the present time contain numerous species of bivalves and on the ground cover and in the deep shade of the forest can be found numerous species of snails. "The Land and Freshwater Snails and the Naiades or Pearly Freshwater Mussels of Texas" by J. K. Strecker furnished the beginning for the list presented. The fact that during the very short time spent within this area in preparing for the making of these lists twenty species of land and fresh water shells were collected without making any special attempt shows the possibilities for collection. The list has been corrected and put into its present form by Dr. Hal B. Parks.

MOLLUSCA

(Shell Fish)

Class Gastropoda

(Land and Water Snails)

Family Polygyridae

Polygyra fraterna Say
Polygyra thyroides Say var. *bucculenta* Gould
Polygyra vultuosa Gould
Polygyra vultuosa Gould var. *copei* Wetherby
Polygyra vultuosa Gould var. *henriettae* Mazyck

Family Zonitidae

Ventridens intertextus W. G. Benny
Ventridens demissus W. G. Benny

Family Endodontidae

Anguispira alternata Say

Family Succineidae

Succinea avara Say
Succinea concordialis Gould

Family Lymnaeidae

Fossaria bulimoides Lea var. *cockerelli* Pilsbry and Ferriss

Family Planorbidae

Planorbis anceps Menke

Family Viviparidae

Campeloma lewissii Walker

212 Species in State

Class Pelecypoda (Bivalves)

Family Unionidae (Fresh Water Mussels)

<i>Anodonta grandis</i> Say	<i>Amblema perplicata</i> Conrad
<i>Anodonta imbecillis</i> Say	<i>Magalonaia gigantea</i> Barnes
<i>Arcidens confragosa</i> Say	<i>Plectomerus dombeyana</i> Valenciennes
<i>Strophitus subvexus</i> Conrad	<i>Obliquaria reflexa</i> Rafinesque
<i>Strophitus rugosus</i> Swainson	<i>Lampsilis satura</i> Lea
<i>Unio merus tetralasmus</i> Say	<i>Lampsilis anodontoides</i> Lea
<i>Unio merus tetralasmus manubius</i> Gould	<i>Lampsilis hydiana</i> Lea
<i>Quadrula quadrula apiculata</i> Say	<i>Ligumia lienosa</i> Conrad
<i>Quadrula quadrula</i> var. <i>aspera</i> Lea	<i>Ligumia subrostrata</i> Say
<i>Tritigonia verrucosa</i> Rafinesque	<i>Leptodea fragilis</i> Rafinesque
<i>Quadrula pustulosa mortoni</i> Conrad	<i>Proptera laevissima</i> Lea
<i>Quadrula nodulata</i> Rafinesque	<i>Proptera purpurata</i> Lamarck
<i>Fusconaia ridellii</i> Lea	<i>Proptera amphichaena</i> Frierson
<i>Fusconaia aflava nasuta</i> Simpson	<i>Carunculina texasensis</i> Lea
<i>Fusconaia friersoni</i> B. H. Wright	<i>Truncilla truncata</i> Rafinesque
<i>Fusconaia chunii</i> Lea	<i>Truncilla donaciformis</i> Lea
<i>Fusconaia askewi</i> Marsh	<i>Obovaria castanea</i> Lea
<i>Fusconaia lananensis</i> Frierson	<i>Glebula rotundata</i> Lamarck
<i>Amblema costata</i> Rafinesque	

60 Species for State

BIG THICKET VEGETATION



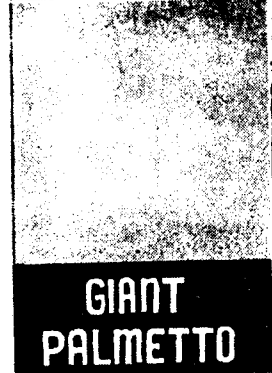
THICKET



END OF TRAIL



PINE ISLAND
BAYOU



Giant
PALMETTO



LARRY JEAN FISHER
Official Photographer

PLANTS OF THE BIG THICKET

The Big Thicket area comprises the southern third of Section 1, the Pine Forest of the plant areas of the plant list of Cory and Parks. It is common knowledge that, with the exception of in a few places, plant areas have transitional zones sometimes miles in width with which the plants on each side of a given boundary occur in about equal numbers. The more common plants of the Big Thicket are found beyond the northern line of the area especially along the river valleys where like soil and moisture conditions occur, however, on the south side of the Big Thicket area there is a very 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 state 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 greater 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 at 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. R. 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 these 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 feather-like objects ranging from yellow through green to black in color and being about one-half inch in length. They are found in small colonies of from a dozen to several hundred of these fronds. These may be found on the wood of standing dead trees, decaying 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 the 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 in 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 location 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 safe to say that within the greater Big Thicket there are a large number of unknown and undescribed species of fungi, some of them being of great beauty and of good size.



COW OAK



VIRGIN PINE



**OPEN BEECH
FOREST**



OXEN

LARRY JEAN FISHER
Official Photographer

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

LICHENS: the leaf-like plants which are found growing on dead trees and even 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 arrange 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 are a favorite food of snails, birds, insects, and some amphibians. Economically this group supplies quite a number of the dye materials in constant use. The litmus of the chemist 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 several species of lichens. While there are several lists of this group of these plants from Texas there is no reference within these to plants collected or occurring in this area.

HEPATICA: this group of organisms often mistaken for lichens are commonly called liverworts. They differ from the lichens in that the plant has a leaf-like surface. On the upper side and along the center of the lower side it develops small root-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 being 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 that of the mosses. The moss plants are very well known. They consist of minute pine tree like organisms which during certain times of the year bear at the tip of the plant a capsule filled with seed-like materials. The mosses have long been a favorite study of botanists. Many lists have been published containing species collected in Texas. However, there are only a few references to this group of plants which occur in any quantity in the Big Thicket.

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

PLANTS OF THE BIG THICKET

Adiantum Capillus-Veneris L.	Venus-Hair Fern
Asplenium platyneuron (L.) Oakes	Ebony Spleenwort
Athyrium thelypteroides (Michx.) Desv. (Asplenium acrostichoides Sw.)	
Cheilanthes albamensis (Buckl.) Kunze	Alabama Lipfern
Cheilanthes tomentosa Link	Woolly Lipfern
Dryopteris floridana (Hook.) Kunze	
Dryopteris intermedia (Muhl.) A. Gray	American Shieldfern
Dryopteris noveboracensis (L.) A. Gray	New York Fern
Dryopteris normalis C. Chr. (D. patens Kunze)	
Dryopteris Thelypteris (L.) A. Gray	Marsh Shieldfern
Onoclea sensibilis L.	Sensible Fern
Pellaea atropurpurea (L.) Link	Purple Cliffbrake
Phegopteris hexagonoptera (Michx.) Fee (Thelypteris hexagonoptera Weatherby)	
Polypodium polypodioides (L.) Watt.	Gray Polypody
Polystichum acrostichoides (Michx.) Schott	Christmas Fern
Pteridium latiusculum (Desv.) Hieron., var. pseudocaudatum (Clute) Maxon	
Woodsia obtusa (Spreng.) Torr.	
Woodwardia aerolata (L.) Moore	
Woodwardia virginica (L.) Small	
Osmunda cinnamomea L.	Cinnamon Fern
Osmunda regalis L., var. spectabilis (Willd.) A. Gray	Royal Fern
Botrychium dissectum Spreng., var. tenuifolium (Underw.) Clute	
Orhioglossum Engelmanni Prantl	Cutleaf Grape Fern
Ophioglossum tenerum Mett.	Engelmann's Addertongue
Ophioglossum vulgatum L.	
Lycopodium lucidulum Michx.	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	
Limnobium 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. tenuispatheus (Nash) Fernald & Griscom	
Andropogon virginicus L., var. tetrastachys (Ell.) Hack	
Anthraenania rufa (Ell.) Schult.	
Anthraenania villosa (Michx.) Beauv.	
Anthoxanthum artistatum 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 longespica 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
Axonopus compressus (Sw.) Beauv.	Carpet Grass
Axonopus furcatus (Fleugge) Hitchc.	
Brachiaria ciliatissima (Bruckl.) Chase	
Brachiaria extensa Chase (B. platyphylla Nash)	
Brachiaria plantaginea (Link) Hitchc.	
Bromus catharticus Vahl (B. unioloides H. B. K.)	Rescue Grass

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

- 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 mutica 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 hymenioides (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 gymncarpon Ell.
Panicum hemitonum 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. Vine Mesquite Grass
Panicum oligosanthos Schult.
Panicum oligosanthos Schult., var. *Helleri* (Nash)
 Fernald (P. Helleri Nash)
Panicum ovale Ell.

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

- 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 glaucodea 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 Louisianica 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 helvis Liebm.

- Cyperus hystricinus* Fernald
Cyperus lutescens Torr. & Hook.
Cyperus multiflorus (Britton) Small
Cyperus paniculatus Rottb.
Cyperus Plankii Britton
Cyperus praelongatus Steud.
Cyperus reflexus Vahl.
Cyperus retrorsus Chapm., var. *cylindricus*
 (Ell.) Fern. & Grisc.
Cyperus rotundus L. Southern Nutgrass
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 polyrhiza (L.) Schleid.
Wolffia punctata Griseb.
Ericaulon compressum Lam.
Ericaulon decangulare L.
Ericaulon Koernickianum Von Heurck & Muell. Arg.
Lachnocaulon anceps (Walt.) Morong
Xyris ambigua Beyr.
Xyris Baldwiniana R. & S.

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

<i>Nemastylis acuta</i> (Bart.) Herb.	
<i>Nemastylis coelestina</i> (Bart.) Nutt.	
<i>Nemastylis purpurea</i> Herb.	
<i>Sisyrinchium amoenum</i> Bicknell	
<i>Sisyrinchium Brayi</i> Bicknell	
<i>Sisyrinchium Bushii</i> Bicknell	
<i>Sisyrinchium Canbyi</i> Bicknell	
<i>Sisyrinchium colubriferum</i> Bicknell	
<i>Sisyrinchium flaccidum</i> Bicknell	
<i>Sisyrinchium furcatum</i> Bicknell	
<i>Sisyrinchium Langloisii</i> Greene	
<i>Sisyrinchium minus</i> Engelm. & Gray	
<i>Sisyrinchium sagittiferum</i> Bicknell	
<i>Sisyrinchium texanum</i> Bicknell	
<i>Sisyrinchium Thurowii</i> Coulter & Fisher	
<i>Sisyrinchium varians</i> Bicknell	
<i>Blephariglottis ciliaris</i> (L.) Rydb.	Yellow Fringe Orchis
<i>Calopogon pulchellus</i> (Sw.) R. Br.	
<i>Corallorhiza maculata</i> Raf.	Large Coral Root
<i>Corallorhiza odontorrhiza</i> (Willd.) Nutt.	
<i>Corallorhiza Wisteriana</i> Conrad	
<i>Habenaria integra</i> (Nutt.) Spreng.	
<i>Habenaria nivea</i> (Nutt.) Spreng.	
<i>Habenaria quinqueseta</i> (Michx.) Sw.	
<i>Hexalectris spicata</i> (Walt.) Bernh.	
<i>Liparis Loeselii</i> (L.) Rich.	
<i>Microstylis monophyllus</i> (L.) Lindl.	
<i>Microstylis unifolia</i> (Michx.) B.S.P.	
<i>Pogonia ophioglossoides</i> (L.) Ker.	Rose Pogonia
<i>Spiranthes brevifolia</i> Chapm.	
<i>Spiranthes cernua</i> (L.) Richard	
<i>Spiranthes gracilis</i> (Bigel.) Beck	
<i>Spiranthes ovalis</i> Lindl.	
<i>Spiranthes praecox</i> (Walt.) S. Wats.	
<i>Spiranthes vernalis</i> Engelm. & Gray	
<i>Spiranthes Reverchonii</i> (Small) Cory	
<i>Tipularia discolor</i> (Pursh) Nutt	
<i>Saururus cernuus</i> L.	Lizardtail
<i>Populus deltoides</i> Marsh, var. <i>virginiana</i> (Foug.) Sudw.	
<i>Salix interior</i> Rowlee	
<i>Salix longipes</i> Anderss.	
<i>Salix nigra</i> Marsh, var. <i>altissima</i> Sarg.	
<i>Myrica cerifera</i> L.	Wax Myrtle
<i>Carya alba</i> (L.) K. Koch	Mockermit Hickory
<i>Carya aquatica</i> (Michx.) Nutt.	Bitter Pecan
<i>Carya Buckleyi</i> Durand	Texas Hickory
<i>Carya cordiformis</i> (Wang.) K. Koch	Bitternut Hickory
<i>Carya glabra</i> (Mill.) Spach	Pignut Hickory
<i>Carya laciniosa</i> (Michx. f.) Nutt.	Bigleaf Shagbark Hickory
<i>Carya leiodermis</i> Sarg.	Pignut Hickory
<i>Carya myristicaeformis</i> (Michx. f.) Nutt.	Metmeg Hickory
<i>Carya ovata</i> (Mill.) K. Koch	Shagbark Hickory
<i>Carya texana</i> C. DC.	
<i>Juglans nigra</i> L.	Black Walnut
<i>Juglans rupestris</i> Engelm.	River Walnut
<i>Alnus rugosa</i> (Du Roi) Spreng.	
<i>Betula nigra</i> L.	River Birch
<i>Carpinus caroliniana</i> Walt.	Hornbeam
<i>Ostrya virginiana</i> (Mill.) K. Koch	Hop-hornbeam
<i>Castanea alnifolia</i> Nutt.	
<i>Castanea Ashei</i> Sudworth	
<i>Castanea floridana</i> (Sarg.) Ashe	
<i>Castanea pumila</i> (L.) Mill.	
<i>Fagus grandifolia</i> Ehrh., var. <i>caroliniana</i> (Loud.) Fern. & Rehder	
<i>Quercus alba</i> L.	White Oak

<i>Quercus cinerea</i> Michx.	Sand Jack
<i>Quercus cinerea</i> Michx., var. <i>dentato-lobata</i> A. D.C.	Durand's White Oak
<i>Quercus Durandii</i> Buckl.	Laurelleaf Oak
<i>Quercus laurifolia</i> Michx.	Overcup Oak
<i>Quercus lyrata</i> Walt.	Bur Oak
<i>Quercus macrocarpa</i> Michx.	
<i>Quercus Margaretta</i> Ashe	
<i>Quercus marylandica</i> Muench var. <i>Ashei</i> Sudw.	Water Oak
<i>Quercus nigra</i> L.	
<i>Quercus obtusa</i> Ashe	
<i>Quercus obtusa</i> Ashe, var. <i>obovatifolia</i> (Sarg) Sudworth.	
<i>Quercus obtusifolia</i> Rydb.	Willowleaf Oak
<i>Quercus Phellos</i> L.	Chestnut Oak (Small)
<i>Quercus prinoides</i> L.	
<i>Quercus Prinus</i> L.	Red Oak
<i>Quercus rubra</i> L.	
<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.	American Elm
<i>Ulmus americana</i> L.	Bois d'arc.
<i>Maclura pomifera</i> (Raf.) Schneider	Red Mulberry
<i>Morus rubra</i> L.	
<i>Parietaria floridana</i> Nutt.	
<i>Parietaria pennsylvanica</i> Muhl.	
<i>Pilea pumila</i> (L.) (Lunnell) Fernald	
<i>Urtica procera</i> Muhl.	
<i>Phoradendron flavescens</i> (Pursh) Nutt.	American Mistletoe
<i>Aristolochia hastata</i> Nutt.	Nash Snakeroot
<i>Aristolochia reticulata</i> Nutt.	
<i>Aristolochia tomentosa</i> Sims	
<i>Brunnichia cirrhosa</i> Banks	Eardrop Vine
<i>Erigonum longifolium</i> Nutt.	
<i>Erigonum multiflorum</i> Benth.	
<i>Polygonella articulata</i> (L.) Meisn.	Coast Jointweed
<i>Polygonum ariifolium</i> L.	Halbardleaf Tear Thumb
<i>Polygonum Beyrichianum</i> (Cham. & Schlecht.) Small	
<i>Polygonum dumetorum</i> L.	
<i>Polygonum hydropiperoides</i> Michx.	
<i>Polygonum mississippiense</i> Stanford	Bush Tear Thumb
<i>Polygonum ramosissimum</i> Michx.	Vine False Buckwheat
<i>Polygonum scandens</i> L.	Bristle Persicaria
<i>Polygonum setaceum</i> Baldw.	
<i>Rumex hastatulus</i> Baldw.	
<i>Rumex obtusifolius</i> L.	Bitter Dock
<i>Rumex pulcher</i> L.	
<i>Rumex verticillatus</i> L.	Swamp Dock
<i>Chenopodium album</i> L., forma <i>viride</i> (L.) Aellen	
<i>Chenopodium carinatum</i> R. Br.	Stinking Goosefoot
<i>Chenopodium Vulvaria</i> L.	
<i>Amaranthus cruentus</i> L.	Tumbleweed
<i>Amaranthus graecizans</i> L.	
<i>Amaranthus polygonoides</i> L.	
<i>Amaranthus spinosus</i> L.	Thorny Amaranth
<i>Amaranthus viridis</i> L.	

<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. compactum Robinson	
<i>Silene dichotoma</i> Ehrl.	
<i>Silene stellata</i> (L.) Ait. f., var. <i>subciliata</i> Robinson	
<i>Spergularia salsuginea</i> (Bunge) Fenzl., var. bracteata Robins.	
<i>Stellaria prostrata</i> Baldw.	
<i>Claytonia Bodini</i> Holz.	
<i>Claytonia simsii</i> Sweet	
<i>Portulaca oleracea</i> L.	Pusley
<i>Brasenia Schreberi</i> Gmel.	
<i>Cabomba caroliniana</i> A. Gray	
<i>Nelumbo lutea</i> (Willd) Pers.	Lotus, Yonquepin
<i>Nuphar advenum</i> (Ait.) Ait. f.	
<i>Nuphar lekophylla</i> (Small) Cory	
<i>Adonis annua</i> L.	
<i>Anemone caroliniana</i> Walt.	
<i>Anemone decapetala</i> Ard.	
<i>Anemone ludoviciana</i> Nutt.	
<i>Aquilegia australis</i> Small	
<i>Clematis crispa</i> L.	
<i>Clematis crispa</i> L., var. <i>Walteri</i> (Pursh) A. Gray	
<i>Clematis obliqua</i> (Small) Schneid	
<i>Clematis subreticulata</i> Harbison	
<i>Delphinium carolinianum</i> Walt.	Blue Larkspur
<i>Delphinium consolida</i> Rydb.	
<i>Delphinium vimineum</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	
<i>Corydalis campestris</i> (Britton) Rydb.	

- 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. Hitchc., 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 Stryraciflua L. Sweet Gum
Platanus occidentalis L. Sycamore
Agrimonia microcarpa Wallr.
Amelanchier canadensis (L.) Medic
Crataegus aestivalis (Walt.) T. & G. May Haw
Crataegus brachyantha Sarg. & Engelm.
Crataegus brachyphylla Sarg.
Crataegus cherokeensis Sarg.
Crataegus dallasiana Sarg.
Crataegus edita Sarg.
Crataegus hispidula Sarg.
Crataegus invisida Sarg.
Crataegus Marshallia Eggleston (*apiifolia* Michx.) Parsley Haw
Crataegus opaca Hook.
Crataegus spathulata Michx.
Crataegus sublobulata Sarg.
Crataegus triantophora Sarg.
Crataegus trimuphalis Sarg.
Crataegus unica Sarg.
Crataegus velutina Sarg.
Crataegus viburnifolia Sarg.
Crataegus viridis L.
Crataegus Warneri Sarg.
Geum camporum 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.
Prunus serotina Ehrh.
Prunus umbellata Ell.
Prunus umbellata Ell., var. *tarda* (Sarg.) Wright
Prunus virginiana L.
Pyrus arbutifolia (L.) L. f., var. *cacrophylla* Hook.
Pyrus arbutifolia (L.) L. f., var. *atropurpurea*
 (Britton) Robinson
Pyrus communis L.
Pyrus coronaria L.
Pyrus ioensis (Wood) Bailey, var. *texana*
 (Rehder) Bailey
Rosa bracteata Wendl.
Rosa carolina L.
Rosa carolina L., var. *glandulosa*
Rosa foliolosa Nutt.
Rosa Lyoni Pursh
Rosa Micrantha Borrer
Rosa Palmeri Rydb.
Rosa setigera 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.
Aeschynomene viscidula Misch.
Amphicarpa bracteata (L.) Fernald, var.
 Pitcheri (T. & G.) Fassett
Amorpha laevigata Nutt.
Amorpha paniculata T. & G.
Apios americana Med.
Astragalus canadensis L.
Astragalus distortus T. & G.
Astragalus Engelmanni Sheldon
Astragalus leptocarpus T. & G.
Astragalus Nuttallianus DC.
Astragalus plattensis Nutt.
Astragalus trichlcalyx 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.
Dalea aurea Nutt.

Chicksaw Plum
Wild Peach

Mexican Plum

McCartney's Rose

Huisache

- Dalea enneandra* Nutt.
Dalea nana Torr.
Desmanthus depressus H. B. K.
Desmanthus illinoensis (Michx.) MacMill.
Desmodium acuminatum (Michx.) DC.
Desmodium canescens (L.) DC.
Desmodium bracteosum (Michx.) DC.
Desmodium Dillenii Darl.
Desmodium illinoense A. Gray
Desmodium laevigatum (Nutt.) DC.
Desmodium lineatum (Michx.) DC.
Desmodium marilandicum (L.) DC.
Desmodium nudiflorum (L.) DC.
Desmodium obtusum (Muhl.) DC.
Desmodium paniculatum (L.) DC.
Desmodium paniculatum (L.) DC., var.
 angustifolium T. & G.
Desmodium paniculatum (L.) DC., var. *pubens*
 T. & G.
Desmodium pauciflorum (Nutt.) DC.
Desmodium rigidum (Ell.) DC.
Desmodium sessilifolium T. & G.
Desmodium strictum DC.
Desmodium viridiflorum (L.) Beck
Erythrina herbacea L.
Galactia regularis (L.) B. S. P.
Galactia volubilis (L.) Britton, var.
 intermedia Vail
Galactia volubilis (L.) Britton, var.
 mississippiensis Vail
Gleditsia aquatica Marsh
Gleditsia triacanthos L.
Indigofera miniata Ort.
Lathyrus pusillus Ell.
Lespedeza frutescens (L.) Britton
Lespedeza hirta (L.) Ell.
Lespedeza prairiea (Mack. & Bush) Britton
Lespedeza procumbens Michx.
Lespedeza repens (L.) Bart.
Lespedeza striata (Thunb.) H. & A.
Lespedeza Stuevei Nutt.
Lespedeza Stuevei Nutt., var. *neglecta* Britton
Lespedeza violacea (L.) Pers.
Lespedeza virginica (L.) Britton
Lotus americanus (Nutt.) Bisch.
Lupinus perennis L., forma *roseus* Britton
Lupinus subcarnosus 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 phleoideum T. & G.
Petalostemum purpureum (Vent) Rydb.
Phaseolus polystachys (L.) B. S. P.
Phaseolus vulgaris L.
Prosopis chilensis (Molina) Stuntz
Psoralea cuspidata 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 psoralioides (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 amphianthum T. & G.
Trifolium bejariense moric
Trifolium carolinianum Michx.
Trifolium dubium Sibth.
Trifolium reflexum L.
Vicia angustifolia L.
Vicia Leavenworthii T. & G.
Vicia ludoviciana Nutt.
Vicia micrantha S. Wats.
Vicia texana (T. & G.) Small
Vigna sinensis (L.) Endl.
Wisteria frutescens (L.) Poir.
Wisteria macrostachya Nutt.
Zornia bracteata (Walt.) Gmel.
Linum alatum (Small) H. Winkl.
Linum Berlandieri Hook.
Linum medium (Planch.) Britton, var. *texanum* (Planch) Fernald
Linum striatum Walt.
Linum sulcatum Riddell
Oxalis corniculata L.
Oxalis cymosa Small
Oxalis violacea L.
Oxalis recurva Ell., var. *texana* (Small) Wiegand
Oxalis stricta L.
Geranium carolinianum L.
Tribulus terrestris L.
Ptelea trifoliata L.
Zanthoxylum Clava-Herculis L.
Zanthoxylum macrophyllum Nutt.

Yellow Wood Sorrel

Puncture Plant

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

<i>Acer negundo</i> L., var. <i>texanum</i> Pax	
<i>Acer rubrum</i> L.	Red Maple
<i>Acer rubrum</i> L., var. <i>Drummondii</i> (H. & A.) T. & G.	
<i>Acer rubrum</i> L., var. <i>tomentosum</i> Kirchner	
<i>Acer rubrum</i> L., var. <i>tridens</i> Wood	
<i>Acer saccharum</i> Marshall	
<i>Aesculus discolor</i> Pursh, var. <i>mollis</i> (Raf.) Sarg.	
<i>Aesculus glabra</i> Buckl., var. <i>leucodermis</i> Sarg.	
<i>Aesculus Pavia</i> L.	
<i>Cardiospermum Halicacabum</i> L.	Balloonvine
<i>Sapindus Drummondii</i> H. & A.	
<i>Berchemia scandens</i> (Hill) Trel.	
<i>Ceanothus americanus</i> L.	
<i>Ceanothus ovatus</i> Desf.	
<i>Condalia obtusifolia</i> (Hook.) Weberb.	
<i>Rhamnus caroliniana</i> Walt.	Indian Cherry
<i>Rhamnus lanceolata</i> Pursh	
<i>Cissus ampelopsis</i> Pers. (<i>ampelopsis cordata</i> Michx.)	
<i>Cissus arborea</i> (L.) Des Moulins	
<i>Cissus incisa</i> (Nutt.) Des Moulins	
<i>Parthenocissus quinquefolia</i> (L.) Planch.	
<i>Vitis candicans</i> Engelm.	
<i>Vitis cinerea</i> Engelm.	
<i>Vitis cordifolia</i> Michx.	
<i>Vitis Linsecumii</i> Buckl.	
<i>Vitis Linsecumii</i> Buckl., var. <i>glauca</i> Munson	
<i>Vitis palmata</i> Vahl.	
<i>Vitis rotundifolia</i> Michx.	
<i>Tilia caroliniana</i> Mill.	
<i>Tilia caroliniana</i> Mill., var. <i>rhoophila</i> Sarg.	
<i>Tilia floridana</i> Small	
<i>Tilia floridana</i> Small, var. <i>oblongifolia</i> Sarg.	
<i>Tilia nuda</i> Sarg.	
<i>Tilia nuda</i> Sarg., var. <i>glaucescens</i> Sarg.	
<i>Tilia texana</i> Sarg.	
<i>Callirrhoe digitata</i> Nutt.	Finged Poppy Mallow
<i>Callirrhoe involucrata</i> (Nutt.) A. Gray	
<i>Callirrhoe triangulata</i> (Leavenw.) A. Gray	Clustered Poppy Mallow
<i>Hibiscus lasiocarpus</i> Cav.	
<i>Hibiscus militaris</i> Cav.	
<i>Hibiscus syriacus</i> L.	
<i>Sida Lindheimeri</i> A. Gray	
<i>Sida rhombifolia</i> L.	
<i>Sida spinosa</i> L.	
<i>Melochia corchorifolia</i> L.	
<i>Ascyrum hypericoides</i> L.	
<i>Ascyrum linifolium</i> Spach.	
<i>Ascyrum stans</i> Michx.	
<i>Hypericum densiflorum</i> Pursh	
<i>Hypericum fasciculatum</i> Lam.	
<i>Hypericum gentianoides</i> (L.) B. S. P.	
<i>Hypericum gymnanthum</i> Engelm. & Gray	
<i>Hypericum petiolatum</i> Walt.	
<i>Hypericum punctatum</i> Lam.	
<i>Hypericum punctatum</i> Lam., var. <i>pseudomaculatum</i> (Bush) Fernald	
<i>Elatine americana</i> (Pursh) Arn.	
<i>Helianthemum carolinianum</i> (Walt.) Mich.	
<i>Helianthemum rosmarinifolium</i> Pursh	
<i>Lechea villosa</i> Ell.	
<i>Viola eriocarpa</i> Schwein	
<i>Viola lanceolata</i> L.	
<i>Viola palmata</i> L., var. <i>dilatata</i> Ell.	Palm Violet
<i>Viola palilionacea</i> Pursh	Butterfly Violet
<i>Viola pedata</i> L.	Birdfoot 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. Maypop
Passiflora lutea L. Yellow Passion Flower
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 & Grisc. Meadow Beauty
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. & Grisc.
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. Hercules Club
Apium leptophyllum (Pers.) F. V. Muell. (A. Ammi Urban)
Centelia asiatica (L.) Urban
Chaerophyllum Teinturierii Hook.
Daucus Carota L. *Daucus pusillus* Michx. Wild Carrot
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. Roughleaf Dogwood
Cornus florida L. Flowering Dogwood
Cornus stricta Lam.
Nyssa aquatica L. Big Tupelo
Nyssa sylvatica Marsh, var. *biflora* (Walt.) Sarg.
Nyssa sylvatica Marsh, var. *caroliniana* (Poir.)
 Fernald
Nyssa sylvatica Marsh, var. *dilatata* Fern.
Lyonia ligustrina (L.) DC.

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

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

<i>Monarda punctata</i> L.	Perennial Sandyland Horsemint
<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 albescens</i> T. & G.	Whiteleaf Mountain Mint
<i>Pycnanthemum flexuosum</i> (Walt.) B. S. P.	Narrowleaf Mountain Mint
<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>hispida</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.	
<i>Solanum Fendleri</i> A. Gray	Horse Nettle
<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.	
<i>Collinsia violacea</i> Nutt.	Entireleaf Painted Cup
<i>Conoclea multifida</i> (Michx.) Benth.	Violet Collinsia
<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>Gratiola virginiana</i> L.	

<i>Linaria canadensis</i> (L.) Dum.-Cours.	
<i>Linaria texana</i> Scheele	Texas Toad Flax
<i>Lindernia anagallidea</i> (Michx.) Pennell	
<i>Lindernia dubia</i> (L.) Pennell	
<i>Lindernia dubia</i> (L.) Pennell, var. major (Pursh) Pennell	
<i>Micranthemum umbrosum</i> (Walt.) Blake	
<i>Mimulus alatus</i> Ait.	Sharp Winged Monkey Flower
<i>Pedicularis canadensis</i> L.	Lousewort
<i>Penstemon Cobaea</i> Nutt.	
<i>Penstemon Digitalis</i> (Sweet) Nutt.	
<i>Penstemon laxiflorus</i> Pennell	
<i>Penstemon Murrayanus</i> Hook.	
<i>Penstemon tubaeiflorus</i> Nutt.	
<i>Seymeria macrophylla</i> Nutt.	
<i>Verbascum Thapsus</i> L.	Mullen
<i>Veronica peregrina</i> L.	
<i>Veronica virginica</i> L.	
<i>Pinguicula pumila</i> Michx.	
<i>Utricularia cornuta</i> Michx.	
<i>Utricularia gibba</i> L.	Swollenspurred 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 laete-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 molle</i> Michx.	

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

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

Rudbeckia hirta L.
Rudbeckia maxima Nutt.
Rudbeckia nitida Nutt.
Senecio ampullacens Hook.
Senecio aureus L.
Senecio glabellus Poir.
Senecio imparipinnatus Klatt.
Senecio obovatus Muhl.
Senecio obovatus Muhl., var. *rotundus* Britton
Senecio pauperculus Michx.
Senecio plattensis Nutt.
Senecio semicordatus Mack. & Bush
Senecio tomentosus Michx.
Serinia oppositifolia (Raf.) Kuntze
Serinia Wrightii (A. Gray) Kuntze
Solidago altissima L.
Solidago auriculata Shuttlew.
Solidago Gatingei Chapm.
Solidago gymnospermoides (Greene) Fernald
Solidago Hellerei Small
Solidago leptcephala 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 Wallr.
Xanthium saccaratum Wallr.
Zinnia multiflora L.