



A Summary of Biological Inventory Data Collected at Big Thicket National Preserve

Vertebrate and Vascular Plant Inventories

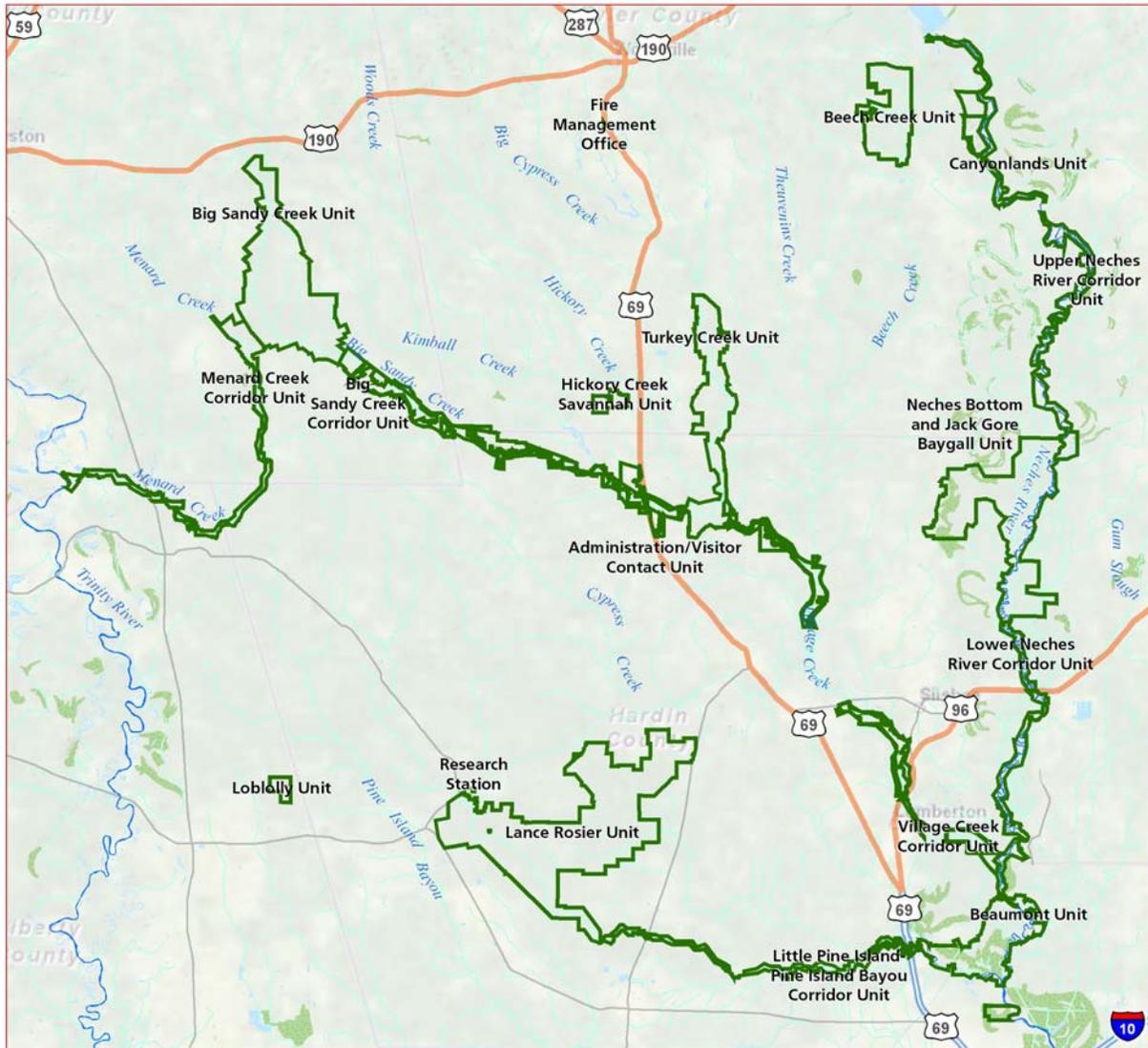
Natural Resource Report NPS/GULN/NRDS—2010/390



Pitcher Plants in Big Thicket National Preserve



Big Thicket National Preserve



Big Thicket National Preserve is an International Biosphere Reserve within the West Gulf Coastal Plain that consists of many separate land units connected by six riparian corridor units. These units are defined by a mosaic of terrestrial and aquatic environments, including swamps, bottomland hardwood forests, eastern deciduous forests, prairies, pine savannas, and xeric sand hills. Hundreds of miles of running waters, ranging from low-order streams to large coastal rivers, dissect the Preserve. This diversity of habitat favors unusual combinations of plant and animals, and provides habitat for many rare, threatened, and endangered species and communities.



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Boardwalk in a field of Pitcher Plants
in Big Thicket National Preserve

Natural beauty found
growing in BigThicket
National Preserve



Menard Creek in Big Thicket
National Preserve

ON THE COVER The preserve was established to protect the remnant of its complex biological diversity. What is extraordinary is not the rarity or abundance of its life forms, but how many species coexist here. Pitcher plants are one of the many eye-catching species of vegetation that cover the landscape in Big Thicket National Preserve. NPS photos.

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The National Park Service, Natural Resource Program Center publishes a range of reports that address natural resource topics of interest and applicability to a broad audience in the National Park Service and others in natural resource management, including scientists, conservation and environmental constituencies, and the public.

The Natural Resource Data Series is intended for the timely release of basic data sets and data summaries. Care has been taken to assure accuracy of raw data values, but a thorough analysis and interpretation of the data has not been completed. Consequently, the initial analyses of data in this report are provisional and subject to change.

All manuscripts in the series receive the appropriate level of peer review to ensure that the information is scientifically credible, technically accurate, appropriately written for the intended audience, and designed and published in a professional manner.

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Contents

	Page
Contents	iii
Introduction.....	1
Methods.....	1
Results.....	2
Discussion.....	21
Monitoring.....	21
Management	21
Literature Cited.....	22
Appendix A. NPSpecies Data Dictionary.....	23
Appendix B. Big Thicket National Preserve (BITH) Local List.	26

List of Tables

Table 1. Count of organisms by Park Status categories at BITH (NPSpecies 2009).	2
Table 2. Count of organisms by Abundance categories at BITH (NPSpecies 2009).	3
Table 3. Count of organisms by Residency categories at BITH (NPSpecies 2009).....	3
Table 4. Count of organisms by Nativity categories at BITH (NPSpecies 2009)	3
Table 5. Non-native plants occurring at Big Thicket National Preserve with an Invasive Species Impact Rank (I-Rank). NatureServe 2009	5

Introduction

Park managers are directed by federal law and National Park Service (NPS) policies to know the status and trends in the condition of natural resources under their stewardship in order to fulfill the NPS mission of conserving parks unimpaired. The National Park Service established the Inventory and Monitoring Program (I&M) in 1992 to provide funding, technical assistance, and coordination for more than 270 parks to complete 12 basic natural resource inventories and to begin monitoring the status and trend of park natural resources. As part of this effort, the I&M Program's Gulf Coast Network (GULN) completed several inventories of the vertebrate species and vascular plants at Big Thicket National Preserve (BITH). These efforts included cataloging all existing data, followed up by additional field investigations. The primary purpose of these inventories was to document the presence of resources in parks, and to assess and document the current condition and knowledge of natural resources in the parks. This report provides a summary of results. Results are also briefly discussed within the context of future inventory efforts, long-term monitoring, and management.

A natural resource **inventory** is an extensive point-in-time effort to document the presence, location or condition of a resource, including the status of plants, animals, and abiotic components such as water, soils, landforms, and climate. **Monitoring** differs from an inventory in adding the dimension of time, with the general purpose of detecting changes or trends in a resource over time.

Methods

Prior to the initiation of any field investigation, an effort was made to assemble extant data on species occurrence at BITH. This included searches of reference databases and vouchers, as well as a site visit to the park. Based on these investigations, inventories for vascular plants at BITH were determined to be incomplete. Consequently, new field inventories of vascular plants (Harcombe 2007) were conducted on the park. At the time, the bird, amphibian & reptile, and mammal lists were determined to be relatively complete, so no new inventories were conducted. However, using past inventory data, species lists of those groups have been summarized in this report, along with the new plant inventory.

NPSpecies is the National Park Service's master database for documenting the occurrence and status of species in more than 270 national park units containing significant natural resources.

Data gathered from the initial reviews at BITH and recent inventories were organized and entered in NPSpecies. Organism names were linked to the available evidence (reference, observation and/or voucher), quality checked, and made ready for review by individuals with expertise in the various taxa groups. The purpose of these reviews was to assign a park status (e.g., Present in Park, Probably Present, False Report, etc.) and complete a series of checklist fields for each organism (i.e., abundance, residency, nativity and cultivation). Upon completion of this step, data were considered certified and uploaded to a master, online version of NPSpecies on the NPS resource management application website (<http://NRInfo.gov>). This site

Recent inventory reports for BITH are available on the GULN website at <http://science.nature.nps.gov/im/units/guln/>.

is currently restricted to NPS users and contractors, and records flagged as "sensitive" are not visible to users without edit permissions..

Results

Searches for past data and completion of recent inventory efforts resulted in 24 references, 8,272 vouchers, and 0 observations being entered into NPSpecies for BITH. Based on a review of this evidence, 1,822 organisms were categorized as Present in Park or Probably Present (Table 1). An additional 86 organisms were categorized as Unconfirmed or Encroaching. Unconfirmed organisms were included on the park list primarily due to historic and/or weak evidence supporting its existence on the park. Encroaching species includes those organisms known to occur in the region, but that are unlikely to occur on the park, at least presently.

Currently 1,596 of the park’s total 1,919 organisms are documented as Present in Park. Additionally, the percentage of total organisms Present in Park is 83%. However, if both categories, Present in Park and Probably Present are combined, then the number of documented organisms rises to 1,822. The percentage of Present in Park and Probably Present of total organisms is 95%. Thus, based on current data, the percentage of documented organisms occurring in BITH is likely between 83 and 95%. The I&M goal was to document as many organisms occurring in the park as possible, be them previously unidentified, encroaching, possibly present, or Present in Park. .

Table 1. Count of organisms by Park Status categories at BITH (NPSpecies 2009).

Park Status ¹	Bird	Fish	Mammal	Amphibian	Reptile	Vascular Plant	Total
Present in Park	91	92	43	17	34	1319	1596
Probably Present	204	6	15	-	1	-	226
Encroaching	-	-	-	-	-	-	0
Unconfirmed	8	13	2	13	23	27	86
Historical	3	-	7	-	-	-	10
False Report	-	-	-	-	1	-	1

¹ Refer to Appendix A for definitions of Park Status categories.

Of the 1,919 organisms documented, reviewers assigned a general abundance category (e.g. Abundant, Common, Uncommon, Rare, and Occasional) to 1,261 (66%) (Table 2). Reviewers believed additional information was needed before an abundance category could be assigned to the remaining 658 (34%) organisms (e.g. Unknown, Not Accounted for).

Table 2. Count of organisms by Abundance categories at BITH (NPSpecies 2009).

Abundance Category¹	Bird	Fish	Mammal	Amphibian	Reptile	Vascular Plant	Total
Abundant	15	-	1	4	3	7	30
Common	45	-	9	6	4	214	278
Uncommon	23	-	27	4	4	700	758
Rare	7	-	1	1	1	180	190
Occasional	-	-	5	-	-	-	5
Unknown	1	92	-	2	22	218	335
Not Accounted for	215	19	24	13	25	27	323

¹ Refer to Appendix A for definitions of Abundance categories.

Residency values (e.g. Breeder, Resident, Migrant, and Vagrant) were assigned for 140 organisms with the exception of 433 organisms that were categorized as unknown or not accounted for (215 birds, 111 fish, 67 mammals, 13 amphibians, and 27 reptiles). Unknown and Not Accounted for residency values were assigned primarily because it was unclear as to whether or not the organism bred on the park. Also, residency was not established for the 1,346 vascular plants because residency values do not apply to vascular plants.

Table 3. Count of organisms by Residency categories at BITH (NPSpecies 2009)

Residency Category¹	Bird	Fish	Mammal	Amphibian	Reptile	Vascular Plant	Total
Breeder	74	-	-	16	32	-	122
Resident	10	-	-	1	-	-	11
Migratory	7	-	-	-	-	-	7
Vagrant	-	-	-	-	-	-	0
Unknown	-	92	43	-	2	-	137
Not Accounted for	215	19	24	13	25	1346	1642

¹ Refer to Appendix A for definitions of Residency categories.

BITH's local list includes 141 non-native organisms (i.e., 7 % of total). Of the 141 non-native organisms, there are 2 birds, no fish, no amphibians, 1 reptile, 6 mammals, and 132 vascular plants. Two additional vascular plants were assigned a nativity of unknown due to a park status of unconfirmed and false reports regarding these two vascular plants.

Table 4. Count of organisms by Nativity categories at BITH (NPSpecies 2009)

Nativity Category¹	Bird	Fish	Mammal	Amphibian	Reptile	Vascular Plant	Total
Native	304	111	61	30	58	1212	1776
Non-Native	2	-	6	-	1	132	141
Unknown	-	-	-	-	-	2	2
Not Accounted for	-	-	-	-	-	-	-

¹ Refer to Appendix A for definitions of Nativity categories.

NatureServe, in cooperation with The Nature Conservancy and NPS, developed a protocol to rank the impact of non-native invasive vascular plants (Morse et al. 2004). Through a series of standardized questions, non-native species are evaluated and assigned an Invasive Species Impact Rank (I-Rank) based on impact to native species and natural biodiversity. I-Ranks are categorized as high, high/medium, height/low, medium, medium/low, medium/insignificant, low, low/insignificant, or insignificant. Fourteen of the non-native vascular plants on BITH's local list received an overall I-Rank score from NatureServe containing high (Table 5). All are known to occur in the park (i.e., Present in Park).

Table 5. Non-native plants occurring at Big Thicket National Preserve with an Invasive Species Impact Rank (I-Rank). NatureServe 2009

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
tallowtree	<i>Triadica sebifera</i>	High	High	High/Medium	Aggressive weed tree of the southeastern U.S. and also spreading in California. Capable of transforming important natural communities ranging from coastal prairies, marshes, and bottomland forests, into monospecific Chinese tallow forests. Alters soil chemistry such that the species may be self-perpetuating once established.
common water hyacinth, common water-hyacinth, floating water hyacinth, floating waterhyacinth, jacinthe d'eau, jacinto de agua, lirio acuatico, mbekambekairan ga, water hyacinth	<i>Eichhornia crassipes</i>	High	High/Medium	High	Water hyacinth, <i>Eichhornia crassipes</i> , is considered by many to be the "world's worst weed," even though it's range does not spread throughout the U.S.
Large flower Primrose-willow	<i>Ludwigia grandiflora</i>	High	High/Medium	High/Medium	This species is considered a nuisance plant throughout most of its invaded range and forms dense stands that eliminate native vegetation by forming monospecific stands that competitively exclude other flora. It also eliminates open-water habitats that are important foraging-grounds for birds and other wildlife including rare fish and invertebrates. Large plant biomass results in a reduction in dissolved oxygen, an increase in acidity of the water, the eutrophication of the water body, and an increase in sedimentation. The species continues to spread aggressively in the Gulf and southeastern states and the western states including into undisturbed areas as the plant is easily dispersed and reproduces rapidly and aggressively. No management method is known to effect successful long-term control and management impacts on native species are high.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
annual rabbit's-foot grass, annual rabbitsfoot grass, rabbit'sfootgrass, rabbitfoot beardgrass, rabbitfoot grass, rabbitfoot polypogon, rabbitfootgrass	<i>Polypogon monspeliensis</i>	High/Low	High/Low	High/Medium	<i>Polypogon monspeliensis</i> is widespread across the U.S. but is more common in the west. In the Sonoran region, it is one of the most successful riparian exotics. In Grand Canyon National Park it is exhibiting a moderate rate of increase in numbers of individuals and populations. In California, <i>Polypogon monspeliensis</i> occurs in serpentine and nonserpentine foothill grasslands which contain native species that are critically endangered. It also occurs in salt marshes with freshwater inflows, waste places, wet pastures, wet soil in ditches and marshes, and along lakes and ponds. <i>Polypogon monspeliensis</i> forms dense swards that crowd out native plants and prevent their regeneration. It may have allelopathic effects. Apparently, most of its negative impacts on biodiversity are in California and Arizona but more information is needed. More information is also needed about its trends.
mimosa, mimosa tree, powderpuff tree, silk tree, silktree	<i>Albizia julibrissin</i>	High/Low	High/Low	Medium/Low	Often a plant of human-disturbed areas (roadsides, etc.), but also affects naturally scoured riparian areas and forest edges. It is having some serious impacts on biodiversity in parts of the southeastern U.S.
English ivy	<i>Hedera helix</i>	High/ Medium	Medium	Medium/Low	<i>Hedera helix</i> is shown to negatively effect forest biodiversity, especially in the Pacific Northwest. It is also a popular landscaping plant. There is no guaranteed method for either keeping <i>H. helix</i> out of natural areas or removing it once it has established.
Lolium arundinaceum, tall fescue	<i>Lolium arundinaceum</i>	High/ Medium	Medium	High/Medium	<i>Lolium arundinaceum</i> (tall fescue), is a non-native species that has escaped from cultivation throughout the United States. It currently is known from nearly every state in the country, including Alaska and Hawaii. It threatens several natural communities, including fens, prairies, woodlands, salt desert scrub, sagebrush, and other grasslands. This species is usually infected with a fungal endophyte which is estimated to be in at least 75% of tall fescue plants in the country. When infected with the fungus tall fescue is allelopathic, inhibiting other plants from growing around it, and is poisonous to animals including soil organisms. In addition, when tall fescue is infected with the fungus it produces more seed, these seeds produce larger more vigorous seedlings which are more capable of persisting than those not infected and the plants have high instances of tillering. Overall, this species is an aggressive non-native species, especially when infected with the fungal endophyte and it is suspected that this species is currently spreading due to the fact that it is still planted.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
aleppo milletgrass, herbe de Cuba, Johnson grass, Johnsongrass, sorgho d'Alep, sorgho de alepo, zacate Johnson	<i>Sorghum halepense</i>	High/ Medium	Medium/Low	High/Medium	Johnson grass has been shown to severely inhibit pioneer grass species which normally appear in abandoned fields and can persist in almost pure stands for many years. The massive size (up to 3 m tall) of this plant creates difficulties for the establishment of other plants and rapid growth of rhizomes also provides the plant with a competitive edge over other species. It is one of the most frequently listed noxious weeds in the U.S. and occurs throughout the entire southern half of the country. The plant is self-pollinated, aggressive, and wind dispersed though humans often disperse it during field cultivation. Although it can colonize undisturbed sites as a pioneer species, it is often found in old fields or previously cultivated areas. Control is difficult and costly and, although some selective herbicides have been developed, such treatment usually impacts natives.
Chinese honeysuckle, Japanese honeysuckle	<i>Lonicera japonica</i>	High/ Medium	Medium	High/Medium	<i>Lonicera japonica</i> can have extremely negative consequences for forest communities and forest structure. Few effective control methods known.
brazilian watermilfoil, parrot feather, parrot feather watermilfoil, parrot's-feather, parrotfeather	<i>Myriophyllum aquaticum</i>	High/ Medium	Medium	High	<i>Myriophyllum aquaticum</i> alters ecosystem processes by changing physical and chemical characteristics of lakes and streams. It forms a dense mat of vegetation that shades out other aquatic species, including algae species important to the food web. <i>M. aquaticum</i> threatens lakes, ponds, and slow-moving streams. It resprouts when cut; fragments can establish new plants. Reports indicate lack of effective control methods.
paleyellow iris, yellow flag	<i>Iris pseudacorus</i>	High/ Medium	Medium/Low	High/Medium	<i>Iris pseudacorus</i> is a popular ornamental species in the United States. It is widespread in riparian and other wetland habitats throughout much of the country, with the exclusion of the Rocky Mountain region and the southwest. Although it is likely near the limits of its generalized range, it continues to spread and increase locally. Pale yellow iris is a very strong competitor that forms dense, monotypic stands. Its rhizome mat can collect sediment, elevate topography, and interfere with stream flow, creating a drier habitat that is less suitable for many native species. Significant changes in community composition and successional trajectories have been reported at invaded sites. Management of this species by either mechanical removal of the rhizome mass or by cutting and spraying with glyphosate herbicide can be labor-intensive, as even small residual rhizome fragments can re-sprout vigorously, necessitating considerable follow-up treatment.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
Japanese climbing fern	<i>Lygodium japonicum</i>	High /Medium	High/Medium	Medium	A climbing fern established in the southeastern United States (mostly on the coastal plain, NC to e. TX, south to FL and north to s. AR) and in Hawaii (big island and Oahu); invades a variety of habitats including mesic upland forests, mesic to wet flatwoods, bottomland forests, cypress swamps, hydric hammocks, and riparian communities. Most problematic along the Gulf coast and in Florida. Although generally scattered throughout the landscape, it sometimes occurs in dense infestations where it can form mats that smother native understory vegetation. In some of these dense infestations, mats ascend to the upper vegetation layers to smother tall shrubs and trees, which can eventually result in complete dominance of the habitat. High-climbing fronds can function as fire ladders, conducting fire into the canopy where it can kill native dominants. Spreads by rhizomes and spores; spores dispersed long distances by wind and contamination. Spreading south through Florida. Control can be achieved by pulling vines from the trees and treating them with a foliar herbicide; it is generally considered difficult. In general, <i>Lygodium japonicum</i> is not considered to be as serious of a threat to entire forests as its congener <i>L. microphyllum</i> ; however, <i>L. microphyllum</i> currently has a much smaller U.S. range, established only in central and southern Florida.
Chinese privet, common chinese privet	<i>Ligustrum sinense</i>	High /Medium	Medium	Low	<i>Ligustrum sinense</i> alters community structure and composition by creating a dense shrub layer that shades plant species in lower layers. It threatens the globally rare and federally endangered plant Schweintz's sunflower (<i>Helianthus schweinitzii</i>). It is reported as invasive in six Southeastern states, where it can infest pinelands, hammocks, river and stream floodplains, lake shores, edges of swamps and marshes, bottomland forests, and woodlands. <i>L. sinense</i> produces large quantities of fruit, which are eaten by birds. It may be controlled in three to five years using a combination of mechanical and chemical treatments.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
mulberry, white mulberry	<i>Morus alba</i>	High/ Medium	Medium/Low	Medium/Low	Impacts of this species largely occur at the native species level except where stands are dense and prevent native forest regeneration. This species spreads/carries disease that kills native red mulberry, itself considered an endangered species in Canada. White mulberry also hybridizes readily with native red mulberry and, with time, could eliminate native genetic strains and come to replace native red mulberry in the United States. It is already distributed throughout most of the United States except the southwest and Alaska but is considered particularly invasive in the northeast and Wisconsin. It is easily spread by birds and mammals and has moderate capability of invading undisturbed areas. Control is not difficult although success over time has not been evaluated.
rescue brome, rescue grass, rescuegras, rescuegrass	<i>Bromus catharticus</i>	Insignificant	Not ranked	Not ranked	<i>Bromus catharticus</i> is found in waste places, open, generally disturbed places, lawns, gardens, roadsides, ditchbanks, and small grain winter crops. Labeled as a plant species that spreads in or near disturbed areas and are not presently considered a threat to native plant communities.
Bahia grass, bahiagrass	<i>Paspalum notatum</i>	Insignificant	Unknown	Unknown	Persists as a dense mat of vegetation in abandoned pastures, which prevents the successful restoration of pastures to native sandhill or forest communities. But does not appear to spread from pastures to adjacent forested areas or any other natural area.
common lespedeza, Japanese clover	<i>Kummerowia striata</i>	Low	Low	Medium/ Insignificant	Planted for forage and soil improvement. Mainly found in disturbed areas especially pastures, old fields, roadsides, and waste areas. Fixes nitrogen and is highly competitive on infertile sites but is usually overgrown by other pioneers in a few years. It can thrive in some prairies and open woodlands. Scattered throughout most of the eastern U.S. but apparently having low impacts in most areas.
beefsteak, beefsteak mint, beefsteakplant, Purple mint	<i>Perilla frutescens</i>	Low	Low/ Insignificant	Low	This is a ruderal species in the eastern U.S. It escapes and naturalizes in pastures, roadsides, disturbed urban and suburban areas, and other lower quality habitats. It does not appear to seriously impact any higher quality native species habitats.
tiny vetch	<i>Vicia hirsuta</i>	Low/ Insignificant	Low/ Insignificant	Unknown	A relatively widespread weed of disturbed places and fields. Fairly infrequent in the East but apparently common in coastal California and in the Pacific Northwest where it may very occasionally be able to invade some higher quality habitats. Generally a weed of waste places without much impact on biodiversity. Additional information from California could help determine if this species could definitively be removed from "Medium" status.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
Curley dock, curly dock, narrowleaf dock, sour dock, yellow dock	<i>Rumex crispus</i>	Low/ Insignificant	Low/ Insignificant	Medium/Low	<i>Rumex crispus</i> is a perennial, taprooted forb that is extremely widespread in the United States (and the world). It is an important weed of agriculture and occurs in a broad range of ruderal, agricultural, and seminatural habitats; it is frequently found in open disturbed areas, croplands, pastures, roadsides, and ditches and occasionally found in more natural habitats such as meadows, stream banks, shores, forests, and vernal pools. This species requires disturbance for establishment, as seedlings are slow growers and poor competitors until their taproot systems have developed. Once established, it can grow in dense patches that displace native vegetation, although it ultimately an early-successional plant that does not tend to capture sites long-term. Can produce prodigious quantities of seed, have an extremely long-lived seed bank, and resprout from its taproot when plants are cut at the soil surface. Cutting plants below-ground or treating with herbicide can achieve successful control.
thorny elaeagnus, thorny olive	<i>Elaeagnus pungens</i>	Low/ Insignificant	Low/ Insignificant	High/Low	<i>Elaeagnus pungens</i> is an evergreen shrub, 1 to 8 m tall, with projecting shoots that can climb into trees. It has been planted extensively in the southeast along highways and is still sold and planted as an ornamental for hedgerows, and bank stabilization. <i>Elaeagnus pungens</i> is established in scattered counties from Kentucky and Virginia south to Louisiana and Florida and also in one county in Massachusetts. It can produce dense thickets that displace native species. <i>Elaeagnus pungens</i> is often found as escaped single plants or scattered individuals both under trees and in the open. <i>Elaeagnus pungens</i> has negative impacts in localized areas in the southeastern U.S. It is fast growing and has prolific stem sprouts and also spreads by animal-dispersed seeds. It occurs in fence rows, forest, roadside margins, waste areas, dry disturbed sites, and open woodlands. It can be controlled with herbicides.
India mockstrawberry Indian strawberry	<i>Duchesnea indica</i>	Low/ Insignificant	Insignificant	Low	An herbaceous perennial ground cover species native to Asia, <i>Duchesnea indica</i> has become well-established in the mid-Atlantic and southeastern states, with scattered establishment to the north and west of this area as well as in the west coast states. It is commercially available as a ground cover for landscaping and sometimes escapes into native habitats. It predominantly invades disturbed open areas, but is shade-tolerant and is also frequently found in woodland and woodland edges, and is rarely found in more intact habitats such as rockhouses and native prairies. Impacts include formation of a dense ground cover, which can be especially problematic for small native perennials. Management by pulling or herbicide is relatively straightforward.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
alligator weed, alligatorweed, pig weed	<i>Alternanthera philoxeroides</i>	Medium	High/Medium	Medium	<i>Alternanthera philoxeroides</i> can alter ecosystem processes such as water flow, levels of dissolved oxygen, and rates of sedimentation. It severely impacts community structure and composition, creating a new dense layer that outcompetes other species for light. <i>A. philoxeroides</i> invades a wide variety of aquatic communities and some adjacent terrestrial habitats. Its reproductive strategies and dispersal by water currents and human activities also contribute to its overall invasiveness rank. Management using herbicide treatments require more than five years to achieve control.
italian ryegrass, perennial rye grass, perennial ryegrass	<i>Lolium perenne</i>	Medium	Medium	Medium/ Insignificant	<i>Lolium perenne</i> occurs in all 50 states and the District of Columbia. It is used as a lawn and pasture grass. <i>Lolium perenne</i> often escapes on roadsides and in disturbed areas. It also invades grasslands, meadows, and vernal pools, especially in California. Apparently most of its negative impacts on biodiversity are in California. <i>Lolium perenne</i> can spread quickly and forms dense swards that displace native species. It threatens a federally threatened butterfly in serpentine grassland in California because it displaces the butterfly's primary larval food plant. Depending on environmental conditions, <i>Lolium perenne</i> may behave as an annual, biennial, short-lived perennial, or perennial. Seed production is prolific. Several management techniques are effective in controlling <i>Lolium perenne</i> including burning, mowing, grazing, and herbicides. <i>Lolium perenne</i> includes both <i>Lolium perenne</i> ssp. <i>multiflorum</i> (often called <i>L. multiflorum</i>) and <i>Lolium perenne</i> ssp. <i>perenne</i> .
Chinese lespedeza, sericea lespedeza	<i>Lespedeza cuneata</i>	Medium	Medium	Medium	<i>Lespedeza cuneata</i> may alter ecosystem processes by reducing water availability, fixing nitrogen on nutrient-poor sites, and altering sedimentation patterns in rocky areas along rivers. It alters community structure and composition by forming a dense monotypic herb layer that reduces plant and invertebrate diversity. Allelopathic, it can also suppress forest regeneration. In addition, it is a known threat to globally rare communities and plant species on riverscours prairies in West Virginia. <i>L. cuneata</i> is found in half the continental US and Hawaii. Expanding within the western edge of its range, it is spread by seed in wildlife plantings and accidental introduction into native seed mixes. It also spreads vegetatively, and benefits from disturbance, including fire. Seed bank may be viable for up to twenty years. Once established, the possibility for eradication is very low, requiring more than five years of management.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
big taper, common mullein, flannel mullein, flannel plant, great mullein, mullein, velvet dock, velvet plant, woolly mullein	<i>Verbascum thapsus</i>	Medium	Medium/Low	Low	This biennial herb is a pioneer species that quickly colonizes disturbed areas such as roadsides, pastures, and woodland margins. It occurs in all 50 states, but is especially problematic in western states and Hawaii. It is reproductively aggressive and the fast growth and high seed production of this plant makes this plant somewhat difficult to manage.
jungle rice, Jungle ricegrass, junglerice, watergrass	<i>Echinochloa colona</i>	Medium/ Insignificant	Medium/ Insignificant	Unknown	<i>Echinochloa colona</i> appears to be a weed primarily of disturbed places or crops, having no significant impact on the ecosystem it has invaded. However, information regarding its role in U.S. ecosystems is relatively limited, resulting in a large range rank.
barnyard grass, barnyardgrass, cockspur, Japanese millet, large barnyard grass, watergrass	<i>Echinochloa crusgalli</i>	Medium/ Insignificant	Low/ Insignificant	Unknown	There are two varieties of <i>Echinochloa crus-galli</i> with the typical variety causing more concern to natural areas than <i>var. oryxicola</i> . However, given its status as a pioneer species, it is unlikely to persist at a site once disturbance ceases. A high proportion of invaded sites are associated with agriculture. A further twist is associated with ongoing evolution in <i>E. crus-galli</i> , a population (outside U.S.) has evolved a mechanism that allows it to survive colder temperatures. This population should be watched for signs of invasion.
annual blue grass, annual bluegrass, walkgrass	<i>Poa annua</i>	Medium/ Insignificant	Medium/ Insignificant	High/Low	<i>Poa annua</i> occurs in every U.S. state and is apparently widespread within each state. <i>Poa annua</i> is often a lawn and garden weed and is also characteristic of unstable and disturbed situations. In addition to manicured areas it also occurs on roadsides, waste ground, trails in woods, clearings, shores, and stream banks. In Kentucky, it is listed as a lesser threat which is defined as an exotic plant species that seems to principally spread and remain in disturbed corridors and does not readily invade natural areas. <i>Poa annua</i> occurs in Indiana Dunes National Lakeshore, Grand Canyon National Park, and Channel Islands National Park. In Grand Canyon National Park, it occurs in areas that have been disturbed within the last 10 years, is associated with early successional species, and shows little or no invasion of native communities. It is not considered to be a strong competitor with established plants. Apparently its impacts on native species are low but more information is needed.
annual yellow sweetclover, Indian sweet-clover	<i>Melilotus indicus</i>	Medium/ Insignificant	Low/ Insignificant	High/Low	This taxon is much less well studied than the more common <i>Melilotus</i> species, and therefore there is much more uncertainty about its effects in the US. It is widespread, but may not be advancing beyond its current distribution. But either way, management techniques specific to this taxon are unknown.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
crapemyrtle	<i>Lagerstroemia indica</i>	Medium/ Insignificant	Low /Insignificant	Unknown	It is unknown if this taxon is present in natural areas. It does spread from original plantings in cultivated situations, suggesting the probability that the taxon occurs outside of cultivation. However, it is not associated with significant negative effects, either at an ecosystem level or by a high current range.
pimpernel, scarlet pimpernel	<i>Anagallis arvensis</i>	Medium/ Insignificant	Medium/ Insignificant	Medium/ Insignificant	This common weed appears to be so ubiquitous that no one notices it anymore. It is unlikely to be affecting ecosystems, communities or individual species.
Callery pear	<i>Pyrus calleryana</i>	Medium/ Insignificant	Low/ Insignificant	Medium/Low	Current distribution and range does not appear to be highly problematic, however, there appears to be the potential for greater spread and effect.
Bermudagrass, chiendent pied-de-poule, common bermudagrass, devilgrass, grama-seda, manienie, motie molulu	<i>Cynodon dactylon</i>	Medium/ Low	Medium/Low	High/Medium	A circumglobal species, <i>Cynodon dactylon</i> is limited in distribution in the US to areas with warm temperatures. Locally able to invade disturbed sites, areas with persistent native vegetation are probably not under threat by this taxon.
golden bamboo	<i>Phyllostachys aurea</i>	Medium/ Low	Medium/Low	Medium/Low	A popular species used as an ornamental and to create privacy fences, golden bamboo is now naturalized in nearly all southeastern states and possibly also in California and Oregon. Also recently reported as naturalized on Oahu. Likely to be restricted from most as-yet uninvaded states by cold and/or aridity. Appears to be locally problematic at scattered sites, having significant impacts on biodiversity when large established stands occur in relatively natural habitats such as secondary forests, floodplain forests, and riparian areas. Where well-established, the species can form dense stands up to 12-15 m tall that displace native species; stands also produce copious leaf litter which may impact litter-feeding stream invertebrates. Spreads predominantly via rhizomes; disturbance tends to promote spread. Management is complicated by the species' ability to resprout, but can be accomplished with perseverance via repeated cutting/mowing or cutting and herbiciding.

Common Names	Species	Overall I-Rank	Ecological Impact ¹	Management Difficulty ²	I-Rank Summary
Dutch clover, ladino clover, white clover	<i>Trifolium repens</i>	Medium/ Low	Medium/Low	Medium/ Insignificant	<i>Trifolium repens</i> (white clover) is extremely widespread in the United States. It was introduced c. 1700 and has high economic importance as a forage plant, in addition to other uses such as erosion control, cover cropping, and wildlife plantings. Although establishing best in disturbed and open sites, it can invade a variety of native species habitats, including grasslands/meadows, heathlands, deciduous woodlands, boreal forest, riparian areas, and coastal beaches. <i>T. repens</i> is a nitrogen-fixing species, but it should not significantly alter nutrient cycling because of its preference for fertile soils and low biomass per area. Its greatest impacts likely result from its stoloniferous, mat-forming habit, which may interfere with establishment of native species, potentially including at least one endangered species (running buffalo clover, <i>Trifolium stoloniferum</i>).
coral ardisia, hen's eyes	<i>Ardisia crenata</i>	Medium/ Low	Medium/Low	High/Low	<i>Ardisia crenata</i> is an evergreen shrub, planted as an ornamental that invades forests in Florida, Louisiana and other scattered locations in the southeast U.S. as well as in Hawaii. Although it was first introduced around 1900, its occurrence in natural communities appears to be increasing. Habitats it invades include hardwood hammocks in the southeast, Beech-Magnolia forest in Texas, suburban woodlands in Georgia, mesic valleys and forest in Hawaii. It is shade tolerant and forms dense stands, out-competing native ground-flora and tree seedlings. It sprouts vigorously after cutting or fire.
chinaberry, Chinaberry tree, Chinaberrytree, Indian lilac, lelah, paraiso, pride of India, white cedar	<i>Melia azedarach</i>	Medium/ Low	Medium/Low	Medium/Low	<i>Melia azedarach</i> used to be widely planted for ornamental or for harvest for its medicinal properties. It has since escaped and naturalized which has caused at least one state (FL) to ban it, although it is still sold elsewhere in the US. It appears most often on disturbed soils, however it can invade floodplain and marsh communities, and can crowd out native species.
glossy privet, tree privet	<i>Ligustrum lucidum</i>	Medium/ Low	Medium/Low	High/Low	<i>Ligustrum lucidum</i> is a shrub or small tree that is widely planted as a hedge. It is apparently having fewer impacts than some other privets in the U.S. but has become established in scattered locations in the southeastern states and California, and is also present in Arizona and Hawaii. It can form dense thickets. Habitats it invades include forests, especially lowland forests, areas near streams, and disturbed sites. It is still available for sale and has very abundant seeds. It resprouts readily when damaged. Control is moderately difficult. Based on the information found in the literature, <i>Ligustrum lucidum</i> is currently less problematic in the U.S. than it is in Australia, New Zealand, and Argentina. This species should be closely monitored as it has shown the behavior of invading communities with little disturbance in other countries.

¹ A subcategory of Overall I-Rank score that addresses organism's negative impacts on native plant and animal populations and communities.

² A subcategory of Overall I-Rank score that addresses difficulty of control.

If information (as evidenced by protocol questions answered) is sufficient to eliminate at least two of the four possible I-Ranks, but insufficient to narrow the I-Rank to a single value, a range I-Rank (e.g. High/Medium) is assigned.

A total of 58 organisms (Table 6) on BITH's local list currently meet at least one of the following criteria:

- Listed on Texas Parks and Wildlife Department (TPWD) list of rare biota
- (<http://www.tpwd.state.tx.us/>)
- Listed by the U.S. Fish and Wildlife Service under the auspices of the U.S. Endangered Species Act of 1973, as amended

Ranked as Critically Imperiled or Imperiled at the global level by NatureServe and its network of member programs.

Table 6. Organisms on the park's local list which possess a designated conservation status (State Status, State Rank, Federal Status or TNC Global Rank).

Common Names	Scientific Name	Park Status ¹	State Status ²	State Rank ³	Federal Status ⁴	TNC Global Rank ⁵
BIRDS						
Swallow-tailed kite	<i>Elanoides forficatus</i>	Probably Present	T	S2B	DM	G5
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Probably Present	T	S3B,S3N	T	G4
Reddish Egret	<i>Egretta rufescens</i>	Probably Present	T	S3B		G4
Piping Plover	<i>Charadrius melodus</i>	Unconfirmed	T	S2	T	G3
Wood Stork	<i>Mycteria americana</i>	Present in Park	T	SHB,S2N	E	G4
Eskimo Curlew	<i>Numenius borealis</i>	Probably Present	E	SH	E	GH
White-faced Ibis	<i>Plegadis chihi</i>	Probably Present	T	S4B		G5
Whooping Crane	<i>Grus americana</i>	Unconfirmed	E	S1		G1
Bachman's Sparrow	<i>Aimophila aestivalis</i>	Probably Present	T	S3B		G3
Ivory-Billed Woodpecker	<i>Campephilus principalis</i>	Historic	E	SX		GH
Red-cockaded Woodpecker	<i>Picooides borealis</i>	Present in Park	E	S2B	E	G3
Least Tern	<i>Sterna antillarum</i>	Probably Present		S3B	E	
White Pelican	<i>Pelecanus erythrorhynchos</i>	Probably Present		S2B,S3N		G3

Common Names	Scientific Name	Park Status ¹	State Status ²	State Rank ³	Federal Status ⁴	TNC Global Rank ⁵
MAMMALS						
Red Wolf	<i>Canis rufus</i>	Historic	E	SX	E	G1Q
American Black Bear	<i>Ursus americanus</i>	Probably Present	T	S3		G5
Louisiana Black Bear	<i>Ursus americanus luteolus</i>	Probably Present	T	SR	T	G5T2
Rafinesque's Big-eared Bat	<i>Corynorhinus rafinesquii</i>	NA	T	S3		G3G4
Southeastern Myotis	<i>Myotis austroriparius</i>	Present in Park		S3		G3G4
REPTILES						
Scarletsnake	<i>Cemophora coccinea</i>	Unconfirmed	T	S3		G5T5
Louisiana Pinesnake	<i>Pituophis ruthveni</i>	Unconfirmed	T	S2	C	G3Q
Texas Horned Lizard	<i>Phrynosoma cornutum</i>	Unconfirmed	T	S4		G4G5
Timber Rattlesnake	<i>Crotalus horridus</i>	Unconfirmed	T	S4		G4
Tan Racer	<i>Coluber constrictor etheridgei</i>	NA		S1		G5T3
Texas Diamondback Terrapin	<i>Malaclemys terrapin littoralis</i>	False Report		S3		G4T3Q
FISH						
Paddlefish	<i>Polyodon spathula</i>	Unconfirmed	T	S3		G4
Blue Sucker	<i>Cycleptus elongatus</i>	Present in Park	T	S3		G3G4
Creek Chubsucker	<i>Erimyzon oblongus</i>	Present in Park	T	S2S3		G5
Speckled Chub	<i>Macrhybopsis aestivalis</i>	Present in Park				G3G4
Western Sand Darter	<i>Ammocrypta clara</i>	Present in Park		S3		G3
VASCULAR PLANTS						
Navasota Ladies-tresses	<i>Spiranthes parksii</i>	Unconfirmed	E	S3	E	G3
Texas Trailing Phlox	<i>Phlox nivalis ssp. Texensis</i>	Present in Park	E	S2	E	G4T2
Savanna Cowbane	<i>Oxypolis ternata</i>	Unconfirmed		S1		G3
Nuttall's Rayless-goldenrod	<i>Bigelowia nuttallii</i>	Present in Park		S3		G3G4

Common Names	Scientific Name	Park Status ¹	State Status ²	State Rank ³	Federal Status ⁴	TNC Global Rank ⁵
Golden-wave Tickseed	<i>Coreopsis intermedia</i>	Present in Park		S3		G3
Lanceleaf Thoroughwort	<i>Eupatorium lancifolium</i>	Present in Park				G3
White Fire-wheel	<i>Gaillardia aestivalis</i> var. <i>winkleri</i>	Unconfirmed		S2		G5T2
Slender Gayfeather	<i>Liatris tenuis</i>	Unconfirmed		S3		G3
Barbed Rattlesnake-root	<i>Prenanthes barbata</i>	Present in Park		S3		G3
Bog Coneflower	<i>Rudbeckia scabrifolia</i>	Unconfirmed		S2		G3G4
Louisiana Catchfly	<i>Silene subciliata</i>	Present in Park		S3		G3
Drummond's Yellow-eyed grass	<i>Xyris drummondii</i>	Unconfirmed		S2		G3
Kral's Yellow-eyed grass	<i>Xyris louisianica</i>	Present in Park		S1		G3
Harper's Yellow-eyed grass	<i>Xyris scabrifolia</i>	Unconfirmed		S2		G3
Mohlenbrock's Umbrella-sedge	<i>Cyperus grayoides</i>	Present in Park		S3		G3
Small's Beakrush	<i>Rhynchospora globularis</i> var. <i>pinetorum</i>	Present in Park				G5T3
Narrow-celled Corn-salad	<i>Valerianella stenocarpa</i>	Unconfirmed		S3		G3
Small-headed Pipewort	<i>Eriocaulon koernickianum</i>	Unconfirmed		S1		G2
Smooth Indigobush	<i>Amorpha laevigata</i>	Present in Park		S1		G3
Panicled Indigobush	<i>Amorpha paniculata</i>	Present in Park		S2		G2G3
Cream Wild Indigo	<i>Baptisia bracteata</i> var. <i>laevicaulis</i>	Present in Park				G4G5T2T4
Texas Screwstem	<i>Bartonia texana</i>	Present in Park		S2		G2
Long-sepal Dragon-head	<i>Physostegia longisepala</i>	Unconfirmed		S2		G2G3
Texas Trillium	<i>Trillium texanum</i>	Unconfirmed		S2S3		G2
Southern Lady's-slipper	<i>Cypripedium kentuckiense</i>	Unconfirmed		S1		G3
Giant Spiral Ladies-tresses	<i>Spiranthes longilabris</i>	Present in Park		S1		G3

Common Names	Scientific Name	Park Status ¹	State Status ²	State Rank ³	Federal Status ⁴	TNC Global Rank ⁵
Limewater Brookweed	<i>Samolus ebracteatus</i> ssp. <i>alyssoides</i>	Present in Park				G4G5T2T4
Incised Grooverbur	<i>Agrimonia incisa</i>	Unconfirmed		S2		G3
Southern Catalpa	<i>Catalpa bignonioides</i>	Present in Park				G3G4

¹ Refer to the Appendix for definitions of Park Status categories.

² The official endangerment status the state heritage program has assigned to this species.

T – Threatened : Any species or subspecies that is likely to become an endangered species within the foreseeable future.

E – Endangered : Animal: Any species or subspecies of wildlife whose prospects of survival or recruitment within the state are in jeopardy or are likely to become so within the foreseeable future.

LE – endangered : A species which is in danger of extinction throughout all or a significant portion of its range.

D - Deemed in Need of Management : Any species or subspecies of nongame wildlife which should be investigated in order to develop information relating to populations, distribution, habitat needs, limiting factors, and other biological and ecological data to determine management measures necessary for their continued ability to sustain themselves successfully.

SP - Species Protected : It shall be unlawful to take, capture, kill, or attempt to take, capture or kill; possess, sell, trade for anything of monetary value, or offer to sell or trade for anything of monetary value, the following nongame wildlife species (or any parts or reproductive products of such species) without a scientific collection permit or written permit from the Commissioner, Department of Conservation and Natural Resources, which shall specifically state what the permittee may do with regard to said species.

S - Special concern : any species or subspecies that is uncommon, or has unique or highly specific habitat requirements or scientific value and therefore requires careful monitoring of its status.

³ State Rank

S1– Extremely rare and critically imperiled in the state with five or fewer occurrences, or very few remaining individuals, or because of some special condition where the species is particularly vulnerable to extirpation.

S2– Very rare and imperiled within the state, six to twenty occurrences and less than 3000 individuals, or few remaining individuals, or because of some factor(s) making it vulnerable to extirpation.

S3– Rare and uncommon in the state, from 21 to 100 occurrences.

S4– Widespread, abundant, and apparently secure within the state, though it may be quite rare in parts of its range, especially at the periphery, and is of long-term concern.

SH– Of historical occurrence, i.e., known to occur in the past, with the expectation that it may be rediscovered.

SU– Possibly in peril but status uncertain, need more information.

SX– Believed to be extirpated, with virtually no likelihood that it will be rediscovered.

⁴U.S. Endangered Species Act: Current status of the taxon as designated or proposed by the U.S. Fish and Wildlife Service (USFWS) or the U.S. National Marine Fisheries Service, and as reported in the U.S. Federal Register in accordance with the U.S. Endangered Species Act of 1973, as amended.

LE– **Listed endangered**, denotes a taxon that is threatened by extinction throughout all or a significant portion of its range.

LT– **Listed threatened**, denotes a taxon that is likely to become an endangered species in the foreseeable future.

PE– **Proposed endangered**, denotes a taxon that is proposed for listing as endangered.

PT– **Proposed threatened**, denotes a taxon that is proposed for listing as threatened.

C – **Candidate species**, denotes a taxon that is not currently proposed for listing, but development and publication of proposed rules for such candidate species is anticipated.

DM– **Delisted taxon**, recovered, being monitored for first five years.

⁵The rounded NatureServe conservation status, developed by NatureServe and its network of member programs, of a species from a global (i.e., rangewide) perspective, characterizing the relative imperilment of the species. G1=Critically Imperiled, G2=Imperiled, G3=Vulnerable, G4=Apparently Secure, G5=Secure. Refer to

<<http://www.natureserve.org/explorer/ranking.htm>> for additional information on ranks.

Discussion

The inventory study plan compiled in 2000 indicated that only a vascular plant inventory was requested by park resource manager. As a result, NPSpecies is reliant on historical inventories for birds, fish, mammals, and herps. For these taxa, Park Status was completed by local experts and the natural resource staff present at the time of certification. BITH has the most species with Park Status listed as Possibly Present and Unconfirmed of all network parks. The park has since initiated an All Taxa Biota Inventory (ATBI) in cooperation with the Big Thicket Association to attempt to fill in data gaps. Data collected from this effort will be added to NPSpecies annually by the network data manager. Species will be added along with voucher and observation data and re-certification of the data will occur with the addition of new species.

Harcombe's vascular plant inventory from 2007 further identifies the diversity in plant resources throughout the park. In fact, BITH contains at least 1264 documented taxa and may contain as many as 110 additional species. The documented list contains 75-98% of flora of the Big Thicket region, which consists of roughly 1400 (MacRoberts et al 2007) to 1700 (Diggs et al 2006) species. Based on numbers in Diggs et al. (2006), this represents slightly more than ¼ of the flora of the state of Texas, and about half as many species as Louisiana (2423 species) or North and South Carolina (2913 spp).

Monitoring

GULN's current list of high priority vital signs to be monitored at BITH includes several that related directly to the vascular plant and vertebrate species documented by the inventories. These include terrestrial vegetative communities, amphibian communities, and water quality. Water quality relates directly to the vegetative communities, amphibians, and fish communities. Although the fish communities are not included in the list of vital signs currently under development, water quality data collected by the network will provide important information if the fish inventory is repeated in the future since the fish communities are tied directly to water quality parameters. Due to their ties with both aquatic and terrestrial environments, and sensitivity to environmental stresses, amphibians are considered good indicators of general ecosystem health. Consequently, amphibians have been selected as a high priority group to monitor in all Gulf Coast Network parks. The data from historic inventories and efforts from the ATBI will assist providing a baseline for long-term monitoring on the park.

The potential impact of climate change on park resources has recently become a focus for the National Park Service. Although the impacts are difficult to predict, all of the vital signs that will be monitored at BITH are very sensitive to changes in precipitation (timing, amount, and/or frequency) and temperature. The GULN will compile available weather data to use for placing monitoring results in context of changing weather and climate.

Management

Recent and historic inventories have revealed that BITH supports a diverse array of vascular plants and vertebrates. As noted, the data have been consolidated into NPSpecies for use in park planning and management decisions. An additional step to be taken with these data is identification of management priority species. This would likely include sensitive or rare species,

and highly invasive exotics, among others. Additional management recommendations can be found in the specific inventory reports for BITH.

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Appendix A. NPSpecies Data Dictionary

Park Status	The current status of each species in each park.	Applicable only to organisms with the <i>Local List</i> checkbox checked. The possible values reflect a combination of confidence, and availability and currency of verifiable evidence in NPSpecies.
Present in Park	Species' occurrence in park is documented and assumed to be extant.	Extremely high confidence that the species is currently in the park. A current, verifiable reference, voucher or observation is included in NPSpecies.
Probably Present	Park is within species' range and contains appropriate habitat. Documented occurrences of the species in the adjoining region of the park give reason to suspect that it probably occurs within the park. The degree of probability may vary within this category, including species that range from common to rare.	Very high confidence that the organism is currently in the park. Verifiable evidence may exist in NPSpecies, but is not considered current enough to elevate the status to Present in Park. Efforts should be made to obtain current, verifiable evidence in NPSpecies to elevate the Park Status to "Present in Park". If reasonable efforts to obtain current, verifiable evidence are unsuccessful, then the Park Status should be changed to Unconfirmed, Historic, Encroaching or False Report as applicable.
Unconfirmed	Included for the park based on weak ("unconfirmed record") or no evidence, giving minimal indication of the species' occurrence in the park.	Any confidence from very low to high that the organism is currently in the park. Verifiable evidence may exist in NPSpecies, but it is not considered sufficient enough to elevate the status to Probably Present, nor current enough to elevate the status to Present. Efforts should be made to obtain current, verifiable evidence in NPSpecies to elevate the Park Status to "Present in Park". If reasonable efforts to obtain current, verifiable evidence are unsuccessful, then the Park Status should be changed to Historic, Encroaching or False Report as applicable.
Encroaching	The species is not documented in the park, but is documented as being adjacent to the park and has potential to occur in the park.	Extremely low confidence that the organism is currently in the park, but extremely high confidence that the organism is currently adjacent to the park. Verifiable evidence may exist in NPSpecies documenting the occurrence in the park, but it is not current. Potential invasive organisms are good candidates for this Park Status designation, either before they enter a park or after they have been eliminated from a park.
Historic	Species' historical occurrence in the park is documented, but recent investigations indicate that the species is now probably absent.	Extremely low confidence that the organism is currently in the park. Verifiable evidence exists in NPSpecies, but is not current. Extinct, extirpated or eliminated species are candidates for a Historic <i>Park Status</i> designation.

False Report	Species previously reported to occur within the park, but current evidence indicates that the report was based on a misidentification, a taxonomic concept no longer accepted, or some other similar problem of interpretation.	Extremely low confidence that the organism is currently in the park. Evidence exists in NPSpecies, but it cannot be sufficiently verified.
NA	Not Applicable - Park-Status does not apply to the scientific name for the park.	The NA value prevents null values from appearing in NPSpecies and applies to 2 primary situations: <ul style="list-style-type: none"> 1) An outdated scientific name that is not used in the locale of the park for an organism, but is in NPSpecies for a park because of the inclusion of vouchers, observations or names linked to references. Note that outdated names are reconciled in NPSpecies with the LOCAL CLASSIFICATION system. 2) Vouchers, observations or names linked to references have not been identified at the species level or lower, but are included in NPSpecies with the name of a higher taxonomic rank than the species level. The names of these higher level taxonomic ranks will disappear from NPSpecies if the evidence of the respective name are identified to the species level or lower, and are changed appropriately in NPSpecies.
Abundance	The current abundance of each organism in each park.	Applicable only to organisms with the <i>Local List</i> checkbox checked and a <i>Park Status</i> of "Present". The values attempt to balance abundance with suitable habitat, and temporal/behavioral considerations. In practice, the entered value should apply (although there are numerous exceptions) to the abundance in the most suitable habitat of the organism, and at the time that the organism is engaged in its principle behavior in (e.g. breeding, migrating, hibernating, etc.), or most important behavior to, the park. A future generation of NPSpecies will address the coding of <i>Abundance</i> (and associated <i>Residency</i>) to separate out the temporal and behavioral aspects. The Data Source field for Abundance is available to provide a citation that specifically addresses abundance in more detail.
Abundant	Animals: May be seen daily, in suitable habitat and season, and counted in relatively large numbers. Plants: Large number of individuals; wide ecological amplitude or occurring in habitats covering a large portion of the park.	
Common	Animals: May be seen daily, in suitable habitat and season, but not in large numbers. Plants: Large numbers of individuals predictably occurring in commonly encountered habitats but not those covering a large portion of the park.	

Uncommon	Animals: Likely to be seen monthly in appropriate season/habitat. May be locally common. Plants: Few to moderate numbers of individuals; occurring either sporadically in commonly encountered habitats or in uncommon habitats.	
Rare	Animals: Present, but usually seen only a few times each year. Plants: Few individuals, usually restricted to small areas of rare habitat.	
Occasional	Animals: Occurs in the park at least once every few years, but not necessarily every year. Plants: Not applicable.	
Unknown	Abundance unknown.	
NA	Not Applicable – Abundance does not apply to the scientific name in the park.	All names on a park's list that do not have a <i>Park Status</i> of Present should have a <i>Residency</i> of NA.
Residency	Current residency classification for each ANIMAL species in each park.	Applicable only to ANIMALS with the <i>Local List</i> checkbox checked and a <i>Park Status</i> of "Present". The values attempt to balance temporal and behavioral considerations. In practice, the entered value should apply (although there are numerous exceptions) to the residency of the organism at the time that the organism is engaged in its principle behavior (e.g. breeding, migrating, hibernating, etc.) in, or most important behavior to, the park. A future generation of NPSpecies will address the coding of Residency (and associated Abundance) to separate out the temporal and behavior aspects. The Data Source field for Residency is available to provide a citation that specifically addresses Residency in more detail.
Breeder	Population reproduces in the park.	
Resident	A significant population is maintained in the park for more than two months each year, but it is not known to breed there.	
Migratory	Migratory species that occurs in park approximately two months or less each year and does not breed there.	
Vagrant	Park is outside of the species' usual range.	
Unknown	Residency status in park is unknown.	
NA	Not Applicable – Residency does not apply to the scientific name in the park.	All names on a park's list that do not have a <i>Park Status</i> of Present should have a <i>Residency</i> of NA.
Nativity	Nativity classification for each organism for each park.	Applicable only to organisms with the <i>Local List</i> checkbox checked. If the park-status of an organism is not "Present in Park", then nativity represents the nativity if the organism were eventually confirmed in the park.
Native	The organism is native, or would be native, to the park (either endemic or indigenous).	

Non-Native	The organism is not native, or would not be native, to the park (neither endemic nor indigenous).	Cultivated organisms as defined under the <i>Cultivation</i> field are also considered non-native.
Unknown	Nativity is unknown relative to the park.	
NA	Not Applicable	Applies to names that do not represent organism names for the locale of the park.
Cultivation	Cultivation classification for each non-native organism in each park.	Applicable only to organisms with the <i>Local List</i> checkbox checked, a <i>Park Status</i> of "Present" or "Probably Present" and a <i>Nativity</i> of Non-Native. Cultivation is intended to distinguish between non-native organisms that were introduced as part of a park's mission, and non-native organisms that occur in the park naturally. Cultivation was not intended to apply to organisms that are cultivated for landscape purposes and have not persisted into the natural environment, for example plants in gardens or terrariums, or animals in enclosures. In general, NPSpecies was not intended to include controlled, "domestic" organisms.
Cultivated	A non-native species that is currently cultivated in the park.	
Persistent	A non-native species that persists in the park (either reproducing or non-reproducing) from a previous cultivation in the park.	
Not Cultivated	A non-native species that is not currently cultivated in the park.	
Unknown	A non-native species for which the cultivation in the park is currently unknown.	
NA	Not Applicable – Cultivation does not apply to the non-native scientific name in the park.	All names on a park's list that do not have a <i>Park Status</i> of Present or Probably Present and a <i>Nativity</i> of Non-native should have a Cultivation of NA.

Appendix B. Big Thicket National Preserve (BITH) Local List (NPSpecies 02/05/2009).

Scientific Name	Common Name	Park Status ¹
Amphibians		
<i>Bufo valliceps</i>	Gulf Coast Toad	PIP
<i>Bufo woodhousii</i>	Woodhouse's Toad	PIP
<i>Acris crepitans</i>	Northern Cricket Frog	PIP
<i>Hyla chrysoscelis</i>	Cope's Gray Treefrog	PIP
<i>Hyla cinerea</i>	Green Tree Frog, Green Treefrog	PIP
<i>Hyla squirella</i>	Squirrel Treefrog	PIP
<i>Hyla versicolor</i>	Gray Treefrog	PIP
<i>Pseudacris crucifer</i>	Spring Peeper	PIP
<i>Pseudacris feriarum</i>	Southeastern Chorus Frog, Upland Chorus Frog	PIP
<i>Pseudacris streckeri</i>	Strecker's Chorus Frog	U
<i>Gastrophryne carolinensis</i>	Eastern Narrow-mouthed Toad	PIP
<i>Gastrophryne olivacea</i>	Great Plains Narrow-mouthed Toad, Western Narrow-mouthed Toad	U
<i>Rana areolata</i>	Crawfish Frog	PIP
<i>Rana catesbeiana</i>	American Bullfrog, Bullfrog	PIP
<i>Rana clamitans</i>	Green Frog	PIP
<i>Rana grylio</i>	Pig Frog	U
<i>Rana palustris</i>	Pickerel Frog	U
<i>Rana sphenocephala</i>	Southern Leopard Frog	PIP
<i>Scaphiopus holbrookii</i>	Eastern Spadefoot	U
<i>Ambystoma maculatum</i>	Spotted Salamander	U
<i>Ambystoma opacum</i>	Marbled Salamander	PIP
<i>Ambystoma talpoideum</i>	Mole Salamander	U
<i>Ambystoma texanum</i>	Small-mouthed Salamander	U
<i>Ambystoma tigrinum tigrinum</i>	Eastern Tiger Salamander	U
<i>Amphiuma tridactylum</i>	Three-toed Amphiuma	U
<i>Desmognathus auriculatus</i>	Southern Dusky Salamander	U

<i>Eurycea quadridigitata</i>	Dwarf Salamander	PIP
<i>Necturus beyeri</i>	Gulf Coast Waterdog	U
<i>Notophthalmus viridescens</i>	Eastern Newt	PIP
<i>Siren intermedia</i>	Lesser Siren	U
Scientific Name	Common Name	Park Status ¹
Birds		
<i>Aix sponsa</i>	Wood Duck	PIP
<i>Anas acuta</i>	Northern Pintail	PP
<i>Anas americana</i>	American Wigeon	PP
<i>Anas clypeata</i>	Northern Shoveler	PP
<i>Anas crecca</i>	Green-winged Teal	PP
<i>Anas cyanoptera</i>	Cinnamon Teal	PP
<i>Anas discors</i>	Blue-winged Teal	PP
<i>Anas fulvigula</i>	Mottled Duck	PIP
<i>Anas platyrhynchos</i>	Mallard	PP
<i>Anas rubripes</i>	American Black Duck	U
<i>Anas strepera</i>	Gadwall	PP
<i>Anser albifrons</i>	Greater White-fronted Goose	PP
<i>Aythya affinis</i>	Lesser Scaup	PP
<i>Aythya americana</i>	Redhead	PP
<i>Aythya collaris</i>	Ring-necked Duck	PP
<i>Aythya marila</i>	Greater Scaup	PP
<i>Aythya valisineria</i>	Canvasback	PP
<i>Branta canadensis</i>	Canada Goose	PP
<i>Bucephala albeola</i>	Bufflehead	PP
<i>Bucephala clangula</i>	Common Goldeneye	PP
<i>Chen caerulescens</i>	Snow Goose	PP
<i>Lophodytes cucullatus</i>	Hooded Merganser	PP
<i>Mergus serrator</i>	Red-breasted Merganser	PP
<i>Oxyura jamaicensis</i>	Ruddy Duck	PP
<i>Dendrocygna autumnalis</i>	Black-bellied Whistling-Duck	PP
<i>Dendrocygna bicolor</i>	Fulvous Whistling-Duck	PP

<i>Chaetura pelagica</i>	Chimney Swift	PIP
<i>Archilochus colubris</i>	Ruby-throated Hummingbird	PIP
<i>Selasphorus rufus</i>	Rufous Hummingbird	PP
<i>Accipiter cooperii</i>	Cooper's Hawk	PIP
<i>Accipiter striatus</i>	Sharp-shinned Hawk	PIP
<i>Aquila chrysaetos</i>	Golden Eagle	U
<i>Buteo jamaicensis</i>	Red-tailed Hawk	PIP
<i>Buteo lineatus</i>	Red-shouldered Hawk	PIP
<i>Buteo platypterus</i>	Broad-winged Hawk	PIP
<i>Buteo swainsoni</i>	Swainson's Hawk	PP
<i>Circus cyaneus</i>	Northern Harrier	PP
<i>Elanoides forficatus</i>	American Swallow-tailed Kite, Swallow-tailed Kite	PP
<i>Elanus caeruleus</i>	Black-shouldered Kite	PP
<i>Haliaeetus leucocephalus</i>	Bald Eagle	PP
<i>Ictinia mississippiensis</i>	Mississippi Kite	PP
<i>Pandion haliaetus</i>	Osprey	PP
<i>Anhinga anhinga</i>	Anhinga	PIP
<i>Ardea herodias</i>	Great Blue Heron	PIP
<i>Botaurus lentiginosus</i>	American Bittern	PP
<i>Bubulcus ibis</i>	Cattle Egret	PIP
<i>Butorides virescens</i>	Green Heron	PIP
<i>Casmerodius albus</i>	Great Egret	PIP
<i>Egretta caerulea</i>	Little Blue Heron	PIP
<i>Egretta rufescens</i>	Reddish Egret	PP
<i>Egretta thula</i>	Snowy Egret	PIP
<i>Egretta tricolor</i>	Tricolored Heron	PIP
<i>Ixobrychus exilis</i>	Least Bittern	PP
<i>Nyctanassa violacea</i>	Yellow-crowned Night-Heron	PIP
<i>Nycticorax nycticorax</i>	Black-crowned Night-Heron	PP
<i>Charadrius melodus</i>	Piping Plover	U
<i>Charadrius semipalmatus</i>	Semipalmated Plover	PP

<i>Charadrius vociferus</i>	Killdeer	PP
<i>Himantopus mexicanus</i>	Ae'o, Black-necked Stilt, Hawaiian Stilt	PP
<i>Pluvialis dominica</i>	American Golden Plover, American Golden-Plover, Lesser Golden-Plover	PP
<i>Pluvialis squatarola</i>	Black-bellied Plover	PP
<i>Recurvirostra americana</i>	American Avocet	PP
<i>Cathartes aura</i>	Turkey Vulture	PIP
<i>Coragyps atratus</i>	Black Vulture	PIP
<i>Mycteria americana</i>	Wood Stork	PIP
<i>Falco columbarius</i>	Merlin	PP
<i>Falco peregrinus</i>	Peregrine Falcon	PP
<i>Falco sparverius</i>	American Kestrel	PIP
<i>Polyborus plancus</i>	Crested Caracara	PP
<i>Fregata magnificens</i>	Magnificent Frigatebird	PP
<i>Gavia immer</i>	Common Loon	PP
<i>Chlidonias niger</i>	Black Tern	PP
<i>Gelochelidon nilotica</i>	Gull-billed Tern	PP
<i>Larus argentatus</i>	Herring Gull	PP
<i>Larus atricilla</i>	Laughing Gull	PP
<i>Larus delawarensis</i>	Ring-billed Gull	PP
<i>Larus philadelphia</i>	Bonaparte's Gull	PP
<i>Larus pipixcan</i>	Franklin's Gull	PP
<i>Rynchops niger</i>	Black Skimmer	PP
<i>Sterna antillarum</i>	Least Tern	PP
<i>Sterna caspia</i>	Caspian Tern	PP
<i>Sterna forsteri</i>	Forster's Tern	PP
<i>Sterna hirundo</i>	Common Tern	PP
<i>Sterna nilotica</i>	Gull-billed Tern	PP
<i>Pelecanus erythrorhynchos</i>	American White Pelican	PP
<i>Phalacrocorax auritus</i>	Double-crested Cormorant	PIP
<i>Phalacrocorax olivaceus</i>	Phalacrocorax Olivaceus	PP

<i>Aechmophorus occidentalis</i>	Western Grebe	U
<i>Podiceps auritus</i>	Horned Grebe	PP
<i>Podiceps nigricollis</i>	Eared Grebe	PP
<i>Podilymbus podiceps</i>	Pied-billed Grebe	PP
<i>Actitis macularia</i>	Spotted Sandpiper	PIP
<i>Arenaria interpres</i>	Ruddy Turnstone	PP
<i>Bartramia longicauda</i>	Upland Sandpiper	PP
<i>Calidris alba</i>	Sanderling	PP
<i>Calidris alpina</i>	Dunlin	PP
<i>Calidris bairdii</i>	Baird's Sandpiper	PP
<i>Calidris fuscicollis</i>	White-rumped Sandpiper	PP
<i>Calidris himantopus</i>	Stilt Sandpiper	PP
<i>Calidris mauri</i>	Western Sandpiper	PP
<i>Calidris melanotos</i>	Pectoral Sandpiper	PP
<i>Calidris minutilla</i>	Least Sandpiper	PP
<i>Calidris pusilla</i>	Semipalmated Sandpiper	PP
<i>Catoptrophorus semipalmatus</i>	Willet	PP
<i>Gallinago gallinago</i>	Common Snipe	PIP
<i>Limnodromus griseus</i>	Short-billed Dowitcher	PP
<i>Limnodromus scolopaceus</i>	Long-billed Dowitcher	PP
<i>Limosa fedoa</i>	Marbled Godwit	PP
<i>Limosa haemastica</i>	Hudsonian Godwit	PP
<i>Numenius americanus</i>	Long-billed Curlew	PP
<i>Numenius borealis</i>	Eskimo Curlew	PP
<i>Scolopax minor</i>	American Woodcock	PP
<i>Steganopus tricolor</i>	Wilson's Phalarope	PP
<i>Tringa flavipes</i>	Lesser Yellowlegs	PP
<i>Tringa melanoleuca</i>	Greater Yellowlegs	PP
<i>Tringa solitaria</i>	Solitary Sandpiper	PP
<i>Tryngites subruficollis</i>	Buff-breasted Sandpiper	PP
<i>Ajaia ajaja</i>	Roseate Spoonbill	PP
<i>Eudocimus albus</i>	White Ibis	PIP

<i>Plegadis chihi</i>	White-faced Ibis	PP
<i>Columba livia</i>	Rock Dove	PP
<i>Columbina inca</i>	Inca Dove	PP
<i>Columbina passerina</i>	Common Ground-Dove	PP
<i>Zenaida macroura</i>	Mourning Dove	PIP
<i>Ceryle alcyon</i>	Belted Kingfisher	PP
<i>Coccyzus americanus</i>	Yellow-billed Cuckoo	PIP
<i>Coccyzus erythrophthalmus</i>	Black-billed Cuckoo	PP
<i>Crotophaga sulcirostris</i>	Groove-billed Ani	PP
<i>Geococcyx californianus</i>	Greater Roadrunner	PIP
<i>Colinus virginianus</i>	Northern Bobwhite	PIP
<i>Meleagris gallopavo</i>	Wild Turkey	PP
<i>Tympanuchus cupido</i>	Greater Prairie-Chicken	H
<i>Grus americana</i>	Whooping Crane	U
<i>Grus canadensis</i>	Sandhill Crane	PP
<i>Fulica americana</i>	American Coot	PP
<i>Gallinula chloropus</i>	Common Moorhen	PP
<i>Porphyryla martinica</i>	Purple Gallinule	PP
<i>Porzana carolina</i>	Sora	PP
<i>Rallus elegans</i>	King Rail	PP
<i>Rallus limicola</i>	Virginia Rail	PP
<i>Rallus longirostris</i>	Clapper Rail	PP
<i>Eremophila alpestris</i>	Horned Lark	PP
<i>Bombycilla cedrorum</i>	Cedar Waxwing	PP
<i>Certhia americana</i>	Brown Creeper	PP
<i>Cistothorus palustris</i>	Marsh Wren	PP
<i>Cistothorus platensis</i>	Sedge Wren	PP
<i>Poliophtila caerulea</i>	Blue-gray Gnatcatcher	PIP
<i>Thryomanes bewickii</i>	Bewick's Wren	PP
<i>Thryothorus ludovicianus</i>	Carolina Wren	PIP
<i>Troglodytes aedon</i>	House Wren	PP
<i>Troglodytes troglodytes</i>	Winter Wren	PP

<i>Corvus brachyrhynchos</i>	American Crow	PIP
<i>Corvus ossifragus</i>	Fish Crow	PP
<i>Cyanocitta cristata</i>	Blue Jay	PIP
<i>Nucifraga columbiana</i>	Clark's Nutcracker	U
<i>Agelaius phoeniceus</i>	Red-winged Blackbird	PIP
<i>Aimophila aestivalis</i>	Bachman's Sparrow	PP
<i>Ammodramus henslowii</i>	Henslow's Sparrow	PP
<i>Ammodramus leconteii</i>	Le Conte's Sparrow	PP
<i>Ammodramus savannarum</i>	Grasshopper Sparrow	PP
<i>Calcarius lapponicus</i>	Lapland Longspur	PP
<i>Cardinalis cardinalis</i>	Northern Cardinal	PIP
<i>Carduelis pinus</i>	Pine Siskin	PP
<i>Carduelis tristis</i>	American Goldfinch	PP
<i>Carpodacus mexicanus</i>	House Finch	PIP
<i>Carpodacus purpureus</i>	Purple Finch	PP
<i>Chondestes grammacus</i>	Lark Sparrow	PP
<i>Coccothraustes vespertinus</i>	Evening Grosbeak	PP
<i>Dendroica caerulescens</i>	Black-throated Blue Warbler	PP
<i>Dendroica castanea</i>	Bay-breasted Warbler	PP
<i>Dendroica cerulea</i>	Cerulean Warbler	PP
<i>Dendroica coronata</i>	Yellow-rumped Warbler	PP
<i>Dendroica discolor</i>	Prairie Warbler	PIP
<i>Dendroica dominica</i>	Yellow-throated Warbler	PIP
<i>Dendroica fusca</i>	Blackburnian Warbler	PP
<i>Dendroica magnolia</i>	Magnolia Warbler	PP
<i>Dendroica palmarum</i>	Palm Warbler	PP
<i>Dendroica pensylvanica</i>	Chestnut-sided Warbler	PP
<i>Dendroica petechia</i>	Yellow Warbler	PP
<i>Dendroica pinus</i>	Pine Warbler	PIP

<i>Dendroica striata</i>	Blackpoll Warbler	PP
<i>Dendroica tigrina</i>	Cape May Warbler	PP
<i>Dendroica virens</i>	Black-throated Green Warbler	PP
<i>Dolichonyx oryzivorus</i>	Bobolink	PP
<i>Euphagus carolinus</i>	Rusty Blackbird	PP
<i>Euphagus cyanocephalus</i>	Brewer's Blackbird	PP
<i>Geothlypis trichas</i>	Common Yellowthroat	PIP
<i>Guiraca caerulea</i>	Blue Grosbeak	PIP
<i>Helmitheros vermivorus</i>	Worm-eating Warbler	PIP
<i>Icteria virens</i>	Yellow-breasted Chat	PIP
<i>Icterus galbula</i>	Baltimore Oriole, Northern Oriole	PIP
<i>Icterus spurius</i>	Orchard Oriole	PIP
<i>Junco hyemalis</i>	Dark-eyed Junco	PP
<i>Limnothlypis swainsonii</i>	Swainson's Warbler	PP
<i>Loxia curvirostra</i>	Red Crossbill	U
<i>Melospiza georgiana</i>	Swamp Sparrow	PP
<i>Melospiza lincolni</i>	Lincoln's Sparrow	PP
<i>Melospiza melodia</i>	Song Sparrow	PIP
<i>Mniotilta varia</i>	Black-and-white Warbler	PIP
<i>Molothrus ater</i>	Brown-headed Cowbird	PIP
<i>Oporornis formosus</i>	Kentucky Warbler	PIP
<i>Oporornis philadelphia</i>	Mourning Warbler	PP
<i>Parula americana</i>	Northern Parula	PIP
<i>Passerculus sandwichensis</i>	Savannah Sparrow	PP
<i>Passerella iliaca</i>	Fox Sparrow	PP
<i>Passerina ciris</i>	Painted Bunting	PIP
<i>Passerina cyanea</i>	Indigo Bunting	PIP
<i>Pheucticus ludovicianus</i>	Rose-breasted Grosbeak	PP
<i>Pheucticus melanocephalus</i>	Black-headed Grosbeak	PP

<i>Pipilo erythrophthalmus</i>	Eastern Towhee, Rufous-sided Towhee	PP
<i>Piranga ludoviciana</i>	Western Tanager	PP
<i>Piranga olivacea</i>	Scarlet Tanager	PP
<i>Piranga rubra</i>	Summer Tanager	PP
<i>Poocetes gramineus</i>	Vesper Sparrow	PP
<i>Protonotaria citrea</i>	Prothonotary Warbler	PIP
<i>Quiscalus major</i>	Boat-tailed Grackle	PP
<i>Quiscalus mexicanus</i>	Great-tailed Grackle	PP
<i>Quiscalus quiscula</i>	Common Grackle	PIP
<i>Seiurus aurocapillus</i>	Ovenbird	PIP
<i>Seiurus motacilla</i>	Louisiana Waterthrush	PIP
<i>Seiurus noveboracensis</i>	Northern Waterthrush	PP
<i>Setophaga ruticilla</i>	American Redstart	PIP
<i>Spiza americana</i>	Dickcissel	PP
<i>Spizella pallida</i>	Clay-colored Sparrow	PP
<i>Spizella passerina</i>	Chipping Sparrow	PIP
<i>Spizella pusilla</i>	Field Sparrow	PP
<i>Sturnella magna</i>	Eastern Meadowlark	PP
<i>Sturnella neglecta</i>	Western Meadowlark	PP
<i>Vermivora bachmanii</i>	Bachman's Warbler, Bachman's Wood Warbler	H
<i>Vermivora celata</i>	Orange-crowned Warbler	PP
<i>Vermivora chrysoptera</i>	Golden-winged Warbler	PP
<i>Vermivora peregrina</i>	Tennessee Warbler	PP
<i>Vermivora pinus</i>	Blue-winged Warbler	PP
<i>Vermivora ruficapilla</i>	Nashville Warbler	PP
<i>Wilsonia canadensis</i>	Canada Warbler	PP
<i>Wilsonia citrina</i>	Hooded Warbler	PIP
<i>Wilsonia pusilla</i>	Wilson's Warbler	PP
<i>Xanthocephalus xanthocephalus</i>	Yellow-headed Blackbird	PP
<i>Zonotrichia albicollis</i>	White-throated Sparrow	PP

<i>Zonotrichia leucophrys</i>	White-crowned Sparrow	PP
<i>Zonotrichia querula</i>	Harris' Sparrow, Harris's Sparrow	PP
<i>Hirundo pyrrhonota</i>	Cliff Swallow	PP
<i>Hirundo rustica</i>	Barn Swallow	PP
<i>Progne subis</i>	Purple Martin	PIP
<i>Riparia riparia</i>	Bank Swallow	PIP
<i>Stelgidopteryx serripennis</i>	Northern Rough-winged Swallow	PP
<i>Tachycineta bicolor</i>	Tree Swallow	PP
<i>Lanius ludovicianus</i>	Loggerhead Shrike	PIP
<i>Catharus fuscescens</i>	Veery	PP
<i>Catharus guttatus</i>	Hermit Thrush	PP
<i>Catharus minimus</i>	Gray-cheeked Thrush	PP
<i>Catharus ustulatus</i>	Swainson's Thrush	PP
<i>Hylocichla mustelina</i>	Wood Thrush	PIP
<i>Sialia sialis</i>	Eastern Bluebird	PP
<i>Turdus migratorius</i>	American Robin	PP
<i>Parus bicolor</i>	Tufted Titmouse	PIP
<i>Parus carolinensis</i>	Carolina Chickadee	PIP
<i>Anthus spinoletta</i>	Water Pipit	PP
<i>Anthus spragueii</i>	Sprague's Pipit	PP
<i>Passer domesticus</i>	House Sparrow	PIP
<i>Regulus calendula</i>	Ruby-crowned Kinglet	PIP
<i>Regulus satrapa</i>	Golden-crowned Kinglet	PP
<i>Sitta canadensis</i>	Red-breasted Nuthatch	PP
<i>Sitta carolinensis</i>	White-breasted Nuthatch	PIP
<i>Sitta pusilla</i>	Brown-headed Nuthatch	PIP
<i>Dumetella carolinensis</i>	Gray Catbird	PIP
<i>Mimus polyglottos</i>	Northern Mockingbird	PIP
<i>Sturnus vulgaris</i>	European Starling	PP
<i>Toxostoma rufum</i>	Brown Thrasher	PIP
<i>Contopus borealis</i>	Olive-sided Flycatcher	PP
<i>Contopus virens</i>	Eastern Wood-Pewee	PIP
<i>Empidonax flaviventris</i>	Yellow-bellied Flycatcher	PIP

<i>Empidonax minimus</i>	Least Flycatcher	PP
<i>Empidonax virescens</i>	Acadian Flycatcher	PIP
<i>Myiarchus crinitus</i>	Great Crested Flycatcher	PIP
<i>Pyrocephalus rubinus</i>	Vermilion Flycatcher	PP
<i>Sayornis phoebe</i>	Eastern Phoebe	PIP
<i>Tyrannus forficatus</i>	Scissor-tailed Flycatcher	PP
<i>Tyrannus tyrannus</i>	Eastern Kingbird	PP
<i>Tyrannus verticalis</i>	Western Kingbird	PP
<i>Vireo bellii</i>	Bell's Vireo	PP
<i>Vireo flavifrons</i>	Yellow-throated Vireo	PIP
<i>Vireo gilvus</i>	Warbling Vireo	PP
<i>Vireo griseus</i>	White-eyed Vireo	PIP
<i>Vireo olivaceus</i>	Red-eyed Vireo	PIP
<i>Vireo philadelphicus</i>	Philadelphia Vireo	PP
<i>Vireo solitarius</i>	Blue-headed Vireo, Solitary Vireo	PP
<i>Campephilus principalis</i>	Ivory-billed Woodpecker	H
<i>Colaptes auratus</i>	Northern Flicker	PP
<i>Dryocopus pileatus</i>	Pileated Woodpecker	PIP
<i>Melanerpes carolinus</i>	Red-bellied Woodpecker	PP
<i>Melanerpes erythrocephalus</i>	Red-headed Woodpecker	PIP
<i>Picoides borealis</i>	Red-cockaded Woodpecker	PIP
<i>Picoides pubescens</i>	Downy Woodpecker	PIP
<i>Picoides villosus</i>	Hairy Woodpecker	PIP
<i>Sphyrapicus varius</i>	Yellow-bellied Sapsucker	PP
<i>Caprimulgus carolinensis</i>	Chuck-will's-widow	PIP
<i>Caprimulgus vociferus</i>	Whip-poor-will	PP
<i>Chordeiles minor</i>	Common Nighthawk	PIP
<i>Aegolius acadicus</i>	Northern Saw-whet Owl	U
<i>Asio flammeus</i>	Short-eared Owl	PP
<i>Asio otus</i>	Long-eared Owl	PP
<i>Bubo virginianus</i>	Great Horned Owl	PIP

<i>Otus asio</i>	Eastern Screech-Owl	PIP
<i>Strix varia</i>	Barred Owl	PIP
<i>Tyto alba</i>	Barn Owl, Common Barn-Owl	PP
Scientific Name	Common Name	Park Status ¹
Fish		
<i>Polyodon spathula</i>	American paddlefish, paddlefish	U
<i>Amia calva</i>	bowfin	PIP
<i>Anguilla rostrata</i>	American eel	PIP
<i>Myrophis punctatus</i>	speckled worm eel	PIP
<i>Labidesthes sicculus</i>	brook silverside	PIP
<i>Membras martinica</i>	rough silverside	U
<i>Menidia beryllina</i>	inland silverside, tidewater silverside	PIP
<i>Strongylura marina</i>	Atlantic needlefish, silver gar	PIP
<i>Brevoortia patronus</i>	Gulf menhaden, largescale menhaden	PP
<i>Dorosoma cepedianum</i>	American gizzard shad, eastern gizzard shad, gizzard shad, hickory shad, mud shad, skipjack	PIP
<i>Dorosoma petenense</i>	threadfin shad	PIP
<i>Anchoa mitchilli</i>	bay anchovy	PP
<i>Carpionodes carpio</i>	river carpsucker	PIP
<i>Cycleptus elongatus</i>	blue sucker	PIP
<i>Erimyzon oblongus</i>	creek chubsucker	PIP
<i>Erimyzon sucetta</i>	lake chubsucker	PIP
<i>Ictiobus bubalus</i>	smallmouth buffalo	PIP
<i>Ictiobus cyprinellus</i>	bigmouth buffalo	PIP
<i>Ictiobus niger</i>	black buffalo	PIP
<i>Minytrema melanops</i>	spotted sucker	PIP
<i>Moxostoma poecilurum</i>	blacktail redhorse	PIP
<i>Ctenopharyngodon idella</i>	grass carp, silver orfe	PIP
<i>Cyprinella lutrensis</i>	red shiner	PIP
<i>Cyprinella venusta</i>	blacktail shiner	PIP

<i>Cyprinus carpio</i>	common carp, European carp	PIP
<i>Hybognathus nuchalis</i>	Mississippi silvery minnow	PIP
<i>Hybopsis amnis</i>	pallid chub, pallid shiner	PIP
<i>Lythrurus fumeus</i>	ribbon shiner	U
<i>Lythrurus umbratilis</i>	redfin shiner	PIP
<i>Macrhybopsis aestivalis</i>	speckled chub	PIP
<i>Notemigonus crysoleucas</i>	golden shiner	PIP
<i>Notropis amabilis</i>	Texas shiner	PIP
<i>Notropis atherinoides</i>	emerald shiner	PIP
<i>Notropis atrocaudalis</i>	blackspot shiner	PIP
<i>Notropis buchanani</i>	ghost shiner	PIP
<i>Notropis chalybaeus</i>	ironcolor shiner	PIP
<i>Notropis potteri</i>	chub shiner	U
<i>Notropis sabinae</i>	Sabine shiner	PIP
<i>Notropis shumardi</i>	silverband shiner	PIP
<i>Notropis texanus</i>	weed shiner	PIP
<i>Notropis volucellus</i>	mimic shiner	PIP
<i>Opsopoeodus emiliae</i>	pugnose minnow	PIP
<i>Phenacobius mirabilis</i>	suckermouth minnow	PIP
<i>Pimephales vigilax</i>	bullhead minnow	PIP
<i>Semotilus atromaculatus</i>	creek chub	PIP
<i>Fundulus blairae</i>	southern starhead topminnow, western starhead topminnow	PIP
<i>Fundulus chrysotus</i>	golden topminnow	PIP
<i>Fundulus notatus</i>	blackstripe topminnow	PIP
<i>Fundulus nottii</i>	bayou topminnow, Gulf starhead topminnow, starhead topminnow	U
<i>Fundulus olivaceus</i>	blackspotted topminnow	PIP
<i>Lucania parva</i>	rainwater killifish	PIP
<i>Gambusia affinis</i>	mosquitofish, western mosquitofish	PIP

<i>Elops saurus</i>	ladyfish	PIP
<i>Esox americanus</i>	grass pickerel, redfin or grass pickerel, redfin pickerel	PIP
<i>Agonostomus monticola</i>	mountain mullet	U
<i>Mugil cephalus</i>	black mullet, gray mullet, striped mullet	PIP
<i>Mugil curema</i>	silver mullet, white mullet	U
<i>Centrarchus macropterus</i>	flier, peacock sunfish, round sunfish	PIP
<i>Chaenobryttus gulosus</i>	warmouth	PIP
<i>Enneacanthus gloriosus</i>	bluespotted sunfish	U
<i>Enneacanthus obesus</i>	banded sunfish, diamond sunfish, little sunfish	U
<i>Lepomis auritus</i>	redbreast sunfish	PIP
<i>Lepomis cyanellus</i>	green sunfish	PIP
<i>Lepomis gibbosus</i>	kiver, pumpkinseed	PP
<i>Lepomis humilis</i>	orangespotted sunfish	U
<i>Lepomis macrochirus</i>	bluegill	PIP
<i>Lepomis marginatus</i>	dollar sunfish	PIP
<i>Lepomis megalotis</i>	longear sunfish	PIP
<i>Lepomis microlophus</i>	redeer sunfish	PIP
<i>Lepomis punctatus</i>	spotted sunfish	PIP
<i>Lepomis symmetricus</i>	bantam sunfish	PIP
<i>Micropterus coosae</i>	redest bass	PIP
<i>Micropterus punctulatus</i>	spotted bass	PIP
<i>Micropterus salmoides</i>	largemouth bass	PIP
<i>Pomoxis annularis</i>	white crappie	PIP
<i>Pomoxis nigromaculatus</i>	black crappie	PIP
<i>Elassoma zonatum</i>	banded pygmy sunfish	PIP
<i>Morone chrysops</i>	white bass	PIP
<i>Morone mississippiensis</i>	yellow bass	U

<i>Morone saxatilis</i>	rockfish, striped bass	PIP
<i>Ammocrypta clara</i>	western sand darter	PIP
<i>Ammocrypta vivax</i>	scaly sand darter	PIP
<i>Etheostoma asprigene</i>	mud darter	PIP
<i>Etheostoma chlorosomum</i>	bluntnose darter	PIP
<i>Etheostoma clarum</i>	western sand darter	PP
<i>Etheostoma fusiforme</i>	swamp darter	PIP
<i>Etheostoma gracile</i>	slough darter	PIP
<i>Etheostoma histrio</i>	harlequin darter	PIP
<i>Etheostoma parvipinne</i>	goldstripe darter	PIP
<i>Etheostoma proeliare</i>	cypress darter	PIP
<i>Etheostoma whipplei</i>	redfin darter	PIP
<i>Percina macrolepida</i>	bigscale logperch	PIP
<i>Percina sciera</i>	dusky darter	PIP
<i>Percina shumardi</i>	river darter	PIP
<i>Aplodinotus grunniens</i>	freshwater drum	PIP
<i>Aphredoderus sayanus</i>	pirate perch	PIP
<i>Ichthyomyzon castaneus</i>	chestnut lamprey	PIP
<i>Ichthyomyzon gagei</i>	southern brook lamprey	PIP
<i>Trinectes maculatus</i>	hogchoker	PIP
<i>Paralichthys lethostigma</i>	southern flounder	PP
<i>Lepisosteus oculatus</i>	shortnose gar, spotted gar	PIP
<i>Lepisosteus osseus</i>	longnose gar	PIP
<i>Lepisosteus spatula</i>	Alligator gar	PIP
<i>Ameiurus melas</i>	black bullhead	U
<i>Ameiurus natalis</i>	yellow bullhead	U
<i>Ictalurus furcatus</i>	blue catfish	PIP
<i>Ictalurus nebulosus</i>	brown bullhead	PP
<i>Ictalurus punctatus</i>	channel catfish, graceful catfish	PIP
<i>Noturus gyrinus</i>	tadpole madtom	PIP
<i>Noturus nocturnus</i>	freckled madtom	PIP

<i>Pylodictis olivaris</i>	flathead catfish	PIP
Scientific Name	Common Name	Park Status ¹
Mammals		
<i>Bison bison</i>	American bison, bison	H
<i>Odocoileus virginianus</i>	white-tailed deer	PIP
<i>Sus scrofa</i>	pig, pig (feral), wild boar	PIP
<i>Canis domesticus</i>	domestic dog	PIP
<i>Canis latrans</i>	coyote	PIP
<i>Canis rufus</i>	red wolf	H
<i>Urocyon cinereoargenteus</i>	common gray fox, gray fox	PIP
<i>Vulpes vulpes</i>	red fox	PIP
<i>Felis catus</i>	Domestic cat	PIP
<i>Felis concolor</i>	mountain lion	PP
<i>Felis onca</i>	Jaguar	H
<i>Felis pardalis</i>	ocelot	H
<i>Lynx rufus</i>	bobcat	PP
<i>Conepatus mesoleucus</i>	hog-nosed skunk, western hog-nosed skunk	H
<i>Mephitis mephitis</i>	striped skunk	PIP
<i>Spilogale putorius</i>	eastern spotted skunk, spotted skunk	PIP
<i>Lutra canadensis</i>	river otter	PIP
<i>Mustela frenata</i>	long-tailed weasel	PIP
<i>Mustela vison</i>	American mink, mink	PIP
<i>Taxidea taxus</i>	American badger, badger	PP
<i>Bassariscus astutus</i>	ringtail	PIP
<i>Procyon lotor</i>	common raccoon, northern raccoon, raccoon	PIP
<i>Ursus americanus</i>	American black bear, black bear	PP
<i>Ursus americanus luteolus</i>	Louisiana black bear	PP
<i>Tadarida brasiliensis</i>	Brazilian free-tailed bat	PP
<i>Eptesicus fuscus</i>	big brown bat	PIP
<i>Lasionycteris</i>	silver-haired bat	PIP

<i>noctivagans</i>		
<i>Lasiurus borealis</i>	eastern red bat, red bat	PIP
<i>Lasiurus cinereus</i>	hoary bat	PIP
<i>Lasiurus intermedius</i>	northern yellow bat	PP
<i>Lasiurus seminolus</i>	Seminole bat	PIP
<i>Myotis austroriparius</i>	southeastern myotis	PIP
<i>Nycticeius humeralis</i>	evening bat	PIP
<i>Pipistrellus subflavus</i>	eastern pipistrelle	PIP
<i>Plecotus rafinesquii</i>	Rafinesque's big-eared bat	PP
<i>Didelphis virginiana</i>	Virginia opossum	PIP
<i>Blarina carolinensis</i>	southern short-tailed shrew	PIP
<i>Cryptotis parva</i>	bee shrew, least shrew, little short-tailed shrew, small short-tailed shrew	PIP
<i>Scalopus aquaticus</i>	eastern mole, topos	PIP
<i>Lepus californicus</i>	black-tailed jack rabbit, black-tailed jackrabbit	PP
<i>Sylvilagus aquaticus</i>	swamp rabbit	PIP
<i>Sylvilagus floridanus</i>	eastern cottontail	PIP
<i>Castor canadensis</i>	american beaver, beaver	PIP
<i>Myocastor coypus</i>	coypu, nutria	PIP
<i>Geomys bursarius</i>	plains pocket gopher	PIP
<i>Perognathus hispidus</i>	hispid pocket mouse	PP
<i>Baiomys taylori</i>	northern pygmy mouse	PP
<i>Microtus ochrogaster</i>	prairie vole	H
<i>Microtus pinetorum</i>	pine vole, woodland vole	PP
<i>Mus musculus</i>	house mouse	PIP
<i>Neotoma floridana</i>	eastern woodrat	PIP
<i>Ochrotomys nuttalli</i>	golden mouse	PIP
<i>Ondatra zibethicus</i>	muskbeaver, muskrat	H
<i>Oryzomys palustris</i>	marsh rice rat	PIP
<i>Peromyscus gossypinus</i>	cotton mouse	PIP
<i>Peromyscus leucopus</i>	white-footed mouse	U

<i>Peromyscus maniculatus</i>	deer mouse	U
<i>Rattus norvegicus</i>	Norway rat	PP
<i>Rattus rattus</i>	black rat	PP
<i>Reithrodontomys fulvescens</i>	fulvous harvest mouse	PIP
<i>Reithrodontomys humulis</i>	eastern harvest mouse	PIP
<i>Reithrodontomys montanus</i>	plains harvest mouse	PP
<i>Sigmodon hispidus</i>	hispid cotton rat	PIP
<i>Glaucomys volans</i>	southern flying squirrel	PIP
<i>Sciurus carolinensis</i>	eastern gray squirrel, gray squirrel	PIP
<i>Sciurus niger</i>	eastern fox squirrel, fox squirrel	PIP
<i>Dasyus novemcinctus</i>	long-nosed armadillo, nine-banded armadillo	PIP
Scientific Name	Common Name	Park Status¹
<i>Reptiles</i>		
<i>Alligator mississippiensis</i>	American alligator	U
<i>Ophisaurus attenuatus</i>	Slender Glass Lizard	U
<i>Cemophora coccinea</i>	Scarlet Snake	U
<i>Coluber constrictor</i>	Racer	PIP
<i>Diadophis punctatus stictogenys</i>	Mississippi Ringneck Snake	U
<i>Elaphe guttata</i>	Corn Snake, Cornsnake	PIP
<i>Elaphe obsoleta</i>	Rat Snake, Texas Ratsnake	PIP
<i>Farancia abacura</i>	Mud Snake, Mudsname	PIP
<i>Heterodon platyrhinos</i>		PP
<i>Lampropeltis calligaster</i>	Prairie Kingsnake, Yellow-bellied Kingsnake	U
<i>Lampropeltis getula holbrooki</i>	Speckled Kingsnake	PIP
<i>Lampropeltis triangulum</i>	Milk Snake, Milksnake	U

<i>Masticophis flagellum</i>	Coachwhip	PIP
<i>Nerodia clarkii clarkii</i>	Gulf Salt Marsh Snake	U
<i>Nerodia cyclopion</i>	Green Water Snake, Mississippi Green Water Snake	U
<i>Nerodia erythrogaster flavigaster</i>	Yellow-bellied Water Snake	PIP
<i>Nerodia erythrogaster transversa</i>	Blotched Water Snake	U
<i>Nerodia fasciata</i>	Southern Water Snake	PIP
<i>Nerodia rhombifer</i>	Diamondback Water Snake	U
<i>Opheodrys aestivus</i>	Rough Green Snake, Rough Greensnake	PIP
<i>Opheodrys vernalis blanchardi</i>	western smooth green snake	U
<i>Pituophis ruthveni</i>	Louisiana Pine Snake, Louisiana Pinesnake	U
<i>Regina grahamii</i>	Graham's Crayfish Snake	U
<i>Regina rigida</i>	Glossy Crayfish Snake, Glossy Crayfish Snakes	PIP
<i>Storeria dekayi</i>	Brown Snake, Dekay's Brown Snake, DeKay's Brownsnake	PIP
<i>Storeria occipitomaculata</i>	Red-bellied Snake, Redbelly Snake	PIP
<i>Tantilla gracilis</i>	Flat-headed Snake	U
<i>Thamnophis proximus</i>	Western Ribbon Snake	PIP
<i>Thamnophis sirtalis</i>	Common Garter Snake	PIP
<i>Virginia striatula</i>	Rough Earth Snake, Rough Earthsnake	U
<i>Micrurus fulvius</i>	Harlequin Coralsnake, Northern Coral Snake	PIP
<i>Hemidactylus turcicus</i>	Mediterranean Gekko, Mediterranean House Gecko	U
<i>Phrynosoma cornutum</i>	Texas Horned Lizard	U
<i>Sceloporus undulatus</i>	Eastern Fence Lizard, Fence Lizard, Plateau Lizard, Prairie Lizard	PIP

<i>Anolis carolinensis</i>	Green Anole	PIP
<i>Eumeces anthracinus pluvialis</i>	Southern Coal Skink	U
<i>Eumeces fasciatus</i>	Five-lined Skink	PIP
<i>Eumeces laticeps</i>	Broad-headed Skink	PIP
<i>Scincella lateralis</i>	Ground Skink, Little Brown Skink	PIP
<i>Cnemidophorus sexlineatus</i>	Six-lined Racerunner	PIP
<i>Agkistrodon contortrix</i>	Copperhead	PIP
<i>Agkistrodon piscivorus</i>	Cottonmouth	PIP
<i>Crotalus horridus</i>	Timber Rattlesnake	U
<i>Sistrurus miliarius</i>	Pigmy Rattlesnake, Pygmy Rattlesnake	U
<i>Chelydra serpentina</i>	common snapping turtle, Snapping Turtle	PIP
<i>Macrochelys temminckii</i>	alligator snapping turtle	PIP
<i>Deirochelys reticularia</i>	Chicken Turtle	PIP
<i>Graptemys kohnii</i>	Mississippi Map Turtle	PIP
<i>Graptemys ouachitensis</i>	Ouachita Map Turtle	PIP
<i>Malaclemys terrapin littoralis</i>	Texas Diamondback Terripin	FR
<i>Pseudemys concinna</i>	River Cooter	PIP
<i>Terrapene carolina</i>	common box turtle, Eastern Box Turtle	PIP
<i>Terrapene ornata</i>	ornate box turtle, Western Box Turtle	PIP
<i>Trachemys scripta elegans</i>	Red-eared Slider	PIP
<i>Kinosternon subrubrum</i>	common mud turtle, Eastern Mud Turtle	PIP
<i>Sternotherus carinatus</i>	Razor-backed Musk Turtle	PIP
<i>Sternotherus odoratus</i>	Common Musk Turtle	U
<i>Apalone mutica mutica</i>	midland smooth softshell, midland smooth softshell turtle	U
<i>Apalone spinifera pallida</i>	Pallid Spiny Softshell Turtle	U

Scientific Name	Common Name	Park Status ¹
<i>Vascular Plants</i>		
<i>Echinodorus cordifolius</i>	burhead, creeping burhead, creeping burhead	PIP
<i>Sagittaria latifolia</i>	broadleaf arrowhead, common arrowhead, duck-potato, wapato	PIP
<i>Sagittaria papillosa</i>	nipplebract arrowhead	PIP
<i>Sagittaria platyphylla</i>	delta arrowhead	PIP
<i>Centella erecta</i>	erect centella	PIP
<i>Chaerophyllum tainturieri</i> var. <i>dasycarpum</i>	hairyfruit chervil	PIP
<i>Chaerophyllum tainturieri</i> var. <i>tainturieri</i>	hairyfruit chervil	PIP
<i>Cicuta maculata</i> var. <i>maculata</i>	common water hemlock, poison parsnip, spotted cowbane, spotted parsley, spotted water hemlock, spotted water-hemlock, water hemlock	PIP
<i>Cyclospermum leptophyllum</i>	marsh parsley	PIP
<i>Cynoscium digitatum</i>	finger dogshade, fringed dogshade	PIP
<i>Daucus pusillus</i>	American wild carrot, rattlesnake carrot, rattlesnake weed, southwest wild carrot	PIP
<i>Eryngium integrifolium</i>	blueflower eryngo, simpleleaf eryngo	PIP
<i>Eryngium prostratum</i>	creeping eryngo	PIP
<i>Eryngium yuccifolium</i>	button eryngo, button snakeroot, Yuccaleaf eryngo	PIP
<i>Hydrocotyle bonariensis</i>	largeleaf pennywort	PIP

<i>Hydrocotyle verticillata</i>	whorled marsh pennywort, whorled marshpennywort, whorled pennyroyal	PIP
<i>Hydrocotyle verticillata</i> var. <i>verticillata</i>	whorled marsh pennywort, whorled marshpennywort	PIP
<i>Limnoscium pinnatum</i>	tansy dogshade	PIP
<i>Oxypolis filiformis</i>	water cowbane	PIP
<i>Oxypolis rigidior</i>	stiff cowbane	PIP
<i>Oxypolis ternata</i>	piedmont cowbane	U
<i>Ptilimnium capillaceum</i>	herbwilliam, threadleaf mockbishopweed	PIP
<i>Ptilimnium costatum</i>	ribbed mock bishopweed	PIP
<i>Sanicula canadensis</i>	Canada sanicle, Canadian blacksnakeroot	PIP
<i>Sanicula canadensis</i> var. <i>canadensis</i>	Canadian blacksnakeroot	PIP
<i>Sanicula smallii</i>	Small's blacksnakeroot	PIP
<i>Spermolepis divaricata</i>	forked scaleseed, roughfruit scaleseed	PIP
<i>Spermolepis echinata</i>	bristly scaleseed, bristly-fruit scaleseed	PIP
<i>Thaspium trifoliatum</i>	purple meadowparsnip, purple thaspium	PIP
<i>Thaspium trifoliatum</i> var. <i>aureum</i>	purple meadowparsnip	PIP
<i>Torilis arvensis</i>	Canada hedgeparsley, hedge parsley, hedgeparsley, spreading hedgeparsley	PIP
<i>Trepocarpus aethusae</i>	aethusae, whitenymph	PIP
<i>Zizia aurea</i>	golden alexanders, golden zizia	PIP
<i>Aralia spinosa</i>	angelicatree, devil's walkingstick, devils walkingstick	PIP
<i>Hedera helix</i>	English ivy	PIP
<i>Arisaema dracontium</i>	green dragon, greendragon	PIP
<i>Arisaema triphyllum</i>	Indian jack in the pulpit, Jack in the pulpit, Jack-in-the-	PIP

	pulpit	
<i>Arisaema triphyllum</i> <i>ssp. triphyllum</i>	Jack in the pulpit	PIP
<i>Peltandra virginica</i>	green arrow arum, Virginia peltandra	PIP
<i>Pistia stratiotes</i>	apon-apon, laitue d'eau, lechuguita de agua, pistie, tropical duckweed, water lettuce, water-lettuce	PIP
<i>Wolffia brasiliensis</i>	Brazilian watermeal	PIP
<i>Wolffia columbiana</i>	columbia water-meal, columbia watermeal, Columbian watermeal	PIP
<i>Wolffiella gladiata</i>	Florida mudmidget	PIP
<i>Sabal minor</i>	dwarf palmetto	PIP
<i>Aristolochia reticulata</i>	Texas dutchman's pipe	PIP
<i>Aristolochia serpentaria</i>	Virginia dutchmanspipe, Virginia snakeroot	PIP
<i>Aristolochia tomentosa</i>	common dutchmanspipe, woolly dutchman's pipe	PIP
<i>Achillea millefolium</i>	bloodwort, carpenter's weed, common yarrow, hierba de las cortaduras, milfoil, plumajillo, western yarrow, yarrow (common)	PIP
<i>Acmella oppositifolia</i> <i>var. repens</i>	creeping spotflower, oppositeleaf spotflower	PIP
<i>Ageratina altissima</i> <i>var. altissima</i>	white snakeroot	PIP
<i>Ageratina altissima</i> <i>var. angustata</i>	white snakeroot	PIP
<i>Ambrosia artemisiifolia</i>	annual ragweed, common ragweed, low ragweed, ragweed, Roman wormwood, short ragweed, small ragweed	PIP
<i>Ambrosia psilostachya</i>	Cuman ragweed, perennial ragweed, western ragweed	PIP
<i>Ambrosia trifida</i>	blood ragweed, giant ragweed, great ragweed, horseweed, perennial ragweed (great), tall	PIP

	ragweed	
<i>Amphiachyris dracunculoides</i>	common broomweed, prairie broomweed	PIP
<i>Arnoglossum ovatum</i>	ovateleaf cacalia	PIP
<i>Arnoglossum plantagineum</i>	arnoglossum, groovestem Indian plaintain	PIP
<i>Artemisia ludoviciana</i>	cudweed sagewort, gray sagewort, Louisiana sagewort, Louisiana wormwood, mugwort wormwood, prairie sage, white sagebrush	PIP
<i>Baccharis halimifolia</i>	eastern baccharis	PIP
<i>Berlandiera pumila</i>	soft greeneyes	PIP
<i>Bidens aristosa</i>	bearded beggarticks, bearded beggarticks, long-bracted beggar-ticks, tickseed sunflower	PIP
<i>Bidens bipinnata</i>	Spanish needles, spanish-needles	PIP
<i>Bidens discoidea</i>	discord beggarticks, small beggarticks, swamp beggarticks	PIP
<i>Bidens frondosa</i>	bur marigold, devil's beggartick, devil's beggarticks, devil's bootjack, devil's-pitchfork, devils beggartick, pitchfork weed, sticktight, sticktights, tickseed sunflower	PIP
<i>Bigelovia nuttallii</i>	Nuttall's rayless goldenrod	PIP
<i>Boltonia diffusa</i> <i>var. diffusa</i>	smallhead doll's daisy	PIP
<i>Chaptalia tomentosa</i>	woolly sunbonnets	PIP
<i>Chloracantha spinosa</i>	devilweed aster, Mexican devilweed, spiny aster, spiny chloracantha	PIP
<i>Chrysopsis mariana</i>	Maryland goldenaster	PIP

<i>Chrysopsis pilosa</i>	soft goldaster, soft goldenaster	PIP
<i>Cirsium horridulum</i>	yellow thistle	PIP
<i>Conoclinium coelestinum</i>	blue mistflower	PIP
<i>Conyza bonariensis</i>	asthmaweed, flaxleaved fleabane, hairy fleabane	PIP
<i>Conyza canadensis</i>	Canada horseweed, Canadian horseweed, horseweed, horseweed fleabane, mares tail, marestail	PIP
<i>Conyza canadensis var. canadensis</i>	Canadian horseweed	PIP
<i>Conyza canadensis var. glabrata</i>	Canadian horseweed	PIP
<i>Conyza canadensis var. pusilla</i>	Canadian horseweed	PIP
<i>Coreopsis basalis</i>	goldenmane tickseed	PIP
<i>Coreopsis intermedia</i>	goldenwave tickseed	PIP
<i>Coreopsis lanceolata</i>	lance coreopsis, lanceleaf tickseed	PIP
<i>Coreopsis linifolia</i>	Texas tickseed	PIP
<i>Coreopsis tinctoria</i>	golden tickseed, plains coreopsis, plains tickseed	PIP
<i>Coreopsis tripteris</i>	atlantic coreopsis, tall tickseed	PIP
<i>Croptilon divaricatum</i>	goldenweed, slender scratchdaisy	PIP
<i>Croptilon hookerianum</i>	Hooker's scratchdaisy	PIP
<i>Croptilon rigidifolium</i>	stiffleaf scratchdaisy	PIP
<i>Echinacea pallida</i>	pale echinacea, pale purple coneflower, purple coneflower	PIP
<i>Echinacea sanguinea</i>	sanguin purple coneflower	PIP
<i>Eclipta prostrata</i>	eclipta, false daisy, yerba de tajo, yerba de tajo	PIP
<i>Elephantopus carolinianus</i>	Carolina elephantsfoot, leafy elephantsfoot	PIP
<i>Elephantopus nudatus</i>	naked elephantsfoot, smooth elephantsfoot	PIP

<i>Elephantopus tomentosus</i>	devil's grandmother, hairy elephantsfoot	PIP
<i>Erechtites hieraciifolia var. hieraciifolia</i>	American burnweed	PIP
<i>Erigeron annuus</i>	annual fleabane, eastern daisy fleabane	PIP
<i>Erigeron philadelphicus</i>	Philadelphia daisy, Philadelphia fleabane	PIP
<i>Erigeron procumbens</i>	Corpus Christi fleabane	PIP
<i>Erigeron strigosus</i>	Daisy Fleabane, prairie fleabane, rough fleabane	PIP
<i>Erigeron strigosus var. strigosus</i>	prairie fleabane	PIP
<i>Erigeron tenuis</i>	slender fleabane, slenderleaf fleabane	PIP
<i>Eupatorium capillifolium</i>	dogfennel	PIP
<i>Eupatorium compositifolium</i>	dogfennel eupatorium, yankeeweed	PIP
<i>Eupatorium hyssopifolium</i>	hyssopleaf thoroughwort	PIP
<i>Eupatorium hyssopifolium var. hyssopifolium</i>	hyssopleaf thoroughwort	PIP
<i>Eupatorium lancifolium</i>	lanceleaf thoroughwort	PIP
<i>Eupatorium leucolepis</i>	justiceweed	PIP
<i>Eupatorium mohrii</i>	Mohr's thoroughwort	PIP
<i>Eupatorium perfoliatum</i>	bonset, common boneset	PIP
<i>Eupatorium rotundifolium</i>	roundleaf eupatorium, roundleaf thoroughwort	PIP
<i>Eupatorium semiserratum</i>	smallflower eupatorium, smallflower thoroughwort	PIP
<i>Eupatorium serotinum</i>	late eupatorium, lateflowering thoroughwort	PIP
<i>Eupatorium X pinnatifidum</i>	eupatorium	PIP
<i>Eurybia hemispherica</i>	southern prairie aster	PIP
<i>Euthamia gymnospermoides</i>	Texas goldentop	PIP
<i>Euthamia leptoccephala</i>	bushy goldentop	PIP

<i>Evax candida</i>	silver evax, silver pygmycudweed	PIP
<i>Facelis retusa</i>	annual trampweed	PIP
<i>Gaillardia aestivalis</i>	lanceleaf blanketflower, lanceleaf gaillardia	PIP
<i>Gaillardia aestivalis</i> var. <i>winkleri</i>	Winkler's blanketflower	U
<i>Gaillardia pulchella</i>	firewheel, Indian blanket, Indianblanket, rosering gaillardia	PIP
<i>Gaillardia pulchella</i> var. <i>pulchella</i>	firewheel	PIP
<i>Gamochaeta antillana</i>	Delicate everlasting	PIP
<i>Gamochaeta calviceps</i>	Silky cudweed	PIP
<i>Gamochaeta coarctata</i>	Gray everlasting	PIP
<i>Gamochaeta pennsylvanica</i>	Pennsylvania everlasting	PIP
<i>Gamochaeta purpurea</i>	spoon-leaf purple everlasting, spoonleaf purple everlasting	PIP
<i>Gymnostyles anthemifolia</i>	button burrweed	PIP
<i>Helenium amarum</i>	bitter sneezeweed, yellowdicks	PIP
<i>Helenium amarum</i> var. <i>amarum</i>	yellowdicks	PIP
<i>Helenium drummondii</i>	fringed sneezeweed	PIP
<i>Helenium flexuosum</i>	purplehead sneezeweed	PIP
<i>Helianthus angustifolius</i>	swamp sneezeweed, swamp sunflower	PIP
<i>Helianthus annuus</i>	annual sunflower, common sunflower, sunflower, wild sunflower	PIP
<i>Helianthus debilis</i>	cucumberleaf sunflower	PIP
<i>Helianthus hirsutus</i>	hairy sunflower	PIP
<i>Helianthus mollis</i>	ashy sunflower	PIP
<i>Helianthus simulans</i>	muck sunflower	PIP
<i>Heterotheca subaxillaris</i>	camphorweed, golden aster	PIP

<i>Hieracium gronovii</i>	Gronovis hawkweed, queendevil	PIP
<i>Hymenopappus artemisiifolius</i> var. <i>artemisiifolius</i>	oldplainsman, woolly-white	PIP
<i>Hypochaeris microcephala</i> var. <i>albiflora</i>	smallhead catsear	PIP
<i>Iva angustifolia</i>	narrowleaf marshelder, Narrowleaf sumpweed	PIP
<i>Iva annua</i>	annual marsh-elder, annual marshelder, seacoast sumpweed	PIP
<i>Krigia caespitosa</i>	weedy dwarfdandelion	PIP
<i>Krigia dandelion</i>	potato dwarfdandelion, tuber dandelion, tuber dwarfdandelion	PIP
<i>Krigia virginica</i>	Virginia dwarfdandelion	PIP
<i>Krigia wrightii</i>	Wright's dwarfdandelion	PIP
<i>Lactuca canadensis</i>	Canada lettuce, Florida blue lettuce, wild lettuce	PIP
<i>Lactuca floridana</i>	Florida lettuce, woodland lettuce	PIP
<i>Liatris acidota</i>	sharp blazing star, sharp gayfeather	PIP
<i>Liatris aspera</i>	rough gayfeather, tall blazing star, tall gayfeather	PIP
<i>Liatris elegans</i> var. <i>elegans</i>	pinkscale blazing star, pinkscale gayfeather	PIP
<i>Liatris pycnostachya</i>	cat-tail gayfeather, Kansas gayfeather, prairie blazing star	PIP
<i>Liatris squarrosa</i>	scaly blazing star, scaly gayfeather	PIP
<i>Liatris squarrosa</i> var. <i>alabamensis</i>	Alabama blazing star, scaly gayfeather	PIP
<i>Liatris squarrosa</i> var. <i>hirsuta</i>	scaly blazing star, scaly gayfeather	PIP
<i>Liatris squarrosa</i> var. <i>squarrosa</i>	scaly blazing star	PIP

<i>Liatrix tenuis</i>	Gulf blazing star, Gulf gayfeather	U
<i>Marshallia graminifolia</i> var. <i>cynanthera</i>	grassleaf Barbara's buttons	PIP
<i>Mikania scandens</i>	climbing hempvine, climbing hempweed	PIP
<i>Oligoneuron nitidum</i>	shiny goldenrod	PIP
<i>Packera glabella</i>	butterweed	PIP
<i>Packera obovata</i>	roundleaf ragwort	PIP
<i>Packera tampicana</i>	Great Plains ragwort	PIP
<i>Palafoxia reverchonii</i>	Reverchon's palafox	PIP
<i>Pityopsis graminifolia</i>	narrowleaf silkgrass	PIP
<i>Pityopsis graminifolia</i> var. <i>latifolia</i>	narrowleaf silkgrass	PIP
<i>Pluchea camphorata</i>	camphor pluchea, camphor weed	PIP
<i>Pluchea foetida</i> var. <i>foetida</i>	stinking camphorweed	PIP
<i>Pluchea rosea</i>	rosy camphorweed	PIP
<i>Prenanthes altissima</i>	rattlesnakeroot, tall rattlesnakeroot	U
<i>Prenanthes barbata</i>	barbed rattlesnakeroot	PIP
<i>Pseudognaphalium obtusifolium</i>	rabbittobacco	PIP
<i>Pyrrhopappus carolinianus</i>	Carolina desert chicory, Carolina desert-chicory, Carolina false dandelion, Carolina false-dandelion	PIP
<i>Pyrrhopappus pauciflorus</i>	desert chicory, desertchicory, manystemmed false-dandelion, smallflower desert-chicory	PIP
<i>Ratibida columnifera</i>	Prairie coneflower, prairie coneflower (upright), prairieconeflower, redspike Mexican hat, upright prairie coneflower	PIP
<i>Rudbeckia grandiflora</i>	rough coneflower	PIP
<i>Rudbeckia grandiflora</i> var. <i>alismifolia</i>	rough coneflower	PIP

<i>Rudbeckia hirta</i>	blackeyed Susan, blackeyedsusan	PIP
<i>Rudbeckia hirta</i> var. <i>angustifolia</i>	blackeyed Susan	PIP
<i>Rudbeckia scabrifolia</i>	roughleaf coneflower	U
<i>Rudbeckia texana</i>	Rudbeckia texana, Texas coneflower	PIP
<i>Silphium gracile</i>	slender rosinweed	PIP
<i>Smallanthus uvedalius</i>	hairy leafcup	PIP
<i>Solidago altissima</i>	Canada goldenrod	PIP
<i>Solidago caesia</i>	wreath goldenrod	PIP
<i>Solidago canadensis</i>	Canada goldenrod, Canadian goldenrod, common goldenrod	PIP
<i>Solidago ludoviciana</i>	Louisiana goldenrod	PIP
<i>Solidago odora</i> var. <i>odora</i>	anisescented goldenrod	PIP
<i>Solidago patula</i> var. <i>strictula</i>	roundleaf goldenrod	PIP
<i>Solidago petiolaris</i>	downy goldenrod, downy ragged goldenrod	PIP
<i>Solidago rugosa</i> var. <i>aspera</i>	Roughleaf Goldenrod	PIP
<i>Solidago rugosa</i> var. <i>rugosa</i>	wrinkleleaf goldenrod	PIP
<i>Solidago sempervirens</i>	seaside goldenrod	PIP
<i>Solidago stricta</i>	wand goldenrod	PIP
<i>Solidago tortifolia</i>	twistleaf goldenrod	PIP
<i>Soliva mutisii</i>	Mutis' burrweed	PIP
<i>Soliva sessilis</i>	field burrweed, field soliva	PIP
<i>Sonchus asper</i>	perennial sowthistle, prickly sowthistle, spiny sowthistle, spiny-leaf sow-thistle	PIP
<i>Sonchus oleraceus</i>	annual sowthistle, common sow-thistle, common sowthistle, pualele, sow thistle, sow-thistle	PIP
<i>Symphyotrichum divaricatum</i>	southern annual saltmarsh aster	PIP
<i>Symphyotrichum</i>	Drummond's aster	PIP

<i>drummondii</i> var. <i>drummondii</i>		
<i>Symphotrichum dumosum</i>	rice button aster	PIP
<i>Symphotrichum dumosum</i> var. <i>dumosum</i>	rice button aster	PIP
<i>Symphotrichum lanceolatum</i> var. <i>lanceolatum</i>	white panicle aster	PIP
<i>Symphotrichum lateriflorum</i>	calico aster	PIP
<i>Symphotrichum lateriflorum</i> var. <i>lateriflorum</i>	calico aster	PIP
<i>Symphotrichum patens</i>	late purple aster	PIP
<i>Symphotrichum patens</i> var. <i>gracile</i>	late purple aster	PIP
<i>Symphotrichum patens</i> var. <i>patens</i>	late purple aster	PIP
<i>Symphotrichum pratense</i>	barrens silky aster	PIP
<i>Symphotrichum racemosum</i>	smooth white oldfield aster	PIP
<i>Symphotrichum subulatum</i>	eastern annual saltmarsh aster	PIP
<i>Taraxacum officinale</i>	blowball, common dandelion, dandelion, faceclock	PIP
<i>Tetragonotheca ludoviciana</i>	Louisiana nerveray	PIP
<i>Thelesperma flavodiscum</i>	East Texas greenthread	PIP
<i>Verbesina helianthoides</i>	gravelweed, gravelweed crownbeard	PIP
<i>Verbesina virginica</i>	iceweed, Virginia crownbeard, white crownbeard	PIP
<i>Vernonia gigantea</i> ssp. <i>gigantea</i>	giant ironweed	PIP

<i>Vernonia missurica</i>	Missouri ironweed	PIP
<i>Vernonia texana</i>	Texas ironweed	PIP
<i>Xanthium strumarium</i>	cocklebur, cockleburr, common cocklebur, rough cocklebur, rough cockleburr	PIP
<i>Youngia japonica</i>	oriental false hawksbeard	PIP
<i>Tillandsia usneoides</i>	Spanish moss	PIP
<i>Callitriche heterophylla</i> ssp. <i>heterophylla</i>	greater water starwort, twoheaded water-starwort, twoheaded waterstarwort	PIP
<i>Callitriche peploides</i>	matted water-starwort, matted waterstarwort	PIP
<i>Lobelia appendiculata</i>	earflower lobelia, pale lobelia	PIP
<i>Lobelia cardinalis</i>	Cardinal flower, cardinalflower	PIP
<i>Lobelia flaccidifolia</i>	foldear lobelia	PIP
<i>Lobelia puberula</i>	downy lobelia	PIP
<i>Lobelia puberula</i> var. <i>pauciflora</i>	downy lobelia	PIP
<i>Triodanis perfoliata</i>	clasping bellwort, clasping Venus' looking-glass, clasping Venus' lookingglass, clasping venuslookingglass, clasping-leaf venus'-looking-glass, common Venus' lookingglass, roundleaved triodanis, Venus lookingglass	PIP
<i>Triodanis perfoliata</i> var. <i>biflora</i>	clasping Venus' looking-glass, clasping Venus' lookingglass, small venus lookingglass	PIP
<i>Wahlenbergia marginata</i>	southern rockbell	PIP
<i>Armoracia lacustris</i>	lake-cress	U

<i>Cardamine bulbosa</i>	bulb bittercress, bulbous bitter-cress, bulbous bittercress	PIP
<i>Cardamine debilis</i>	roadside bittercress	PIP
<i>Cardamine hirsuta</i>	hairy bittercress	PIP
<i>Cardamine parviflora</i> var. <i>arenicola</i>	sand bittercress	PIP
<i>Cardamine pensylvanica</i>	Pennsylvania bittercress, Quaker bittercress	U
<i>Lepidium virginicum</i>	peppergrass, poorman pepperweed, poorman's pepper, poorman's-pepperwort, Virginia pepperweed, Virginian peppercress	PIP
<i>Rorippa palustris</i>	bog marshcress, bog yellowcress, common yellowcress, marsh yellowcress, marshcress, yellow watercress	PIP
<i>Rorippa sessiliflora</i>	stalkless yellowcress	PIP
<i>Cleome hassleriana</i>	pink queen, pinkqueen	PIP
<i>Alternanthera philoxeroides</i>	alligator weed, alligatorweed, pig weed	PIP
<i>Alternanthera sessilis</i>	sessile joyweed	PIP
<i>Froelichia floridana</i>	cottonweed, field snakecotton, Florida snakecotton, plains snakecotton, prairie froelichia	PIP
<i>Opuntia humifusa</i>	devil's-tongue, pricklypear	PIP
<i>Opuntia stricta</i> var. <i>dillenii</i>	erect pricklypear	PIP
<i>Cerastium fontanum</i>	common chickweed, common mouse-ear chickweed, mouse-ear chickweed	PIP
<i>Cerastium glomeratum</i>	sticky chickweed	PIP
<i>Loeflingia squarrosa</i>	California loeflingia, spreading pygmyleaf	PIP

<i>Minuartia muscorum</i>	Dixie stitchwort, starwort	PIP
<i>Sagina decumbens</i>	beach pearlwort, trailing pearlwort	PIP
<i>Silene subciliata</i>	Louisiana catchfly	PIP
<i>Stellaria media</i> ssp. <i>media</i>	common chickweed	PIP
<i>Chenopodium ambrosioides</i> var. <i>ambrosioides</i>	Mexican tea	PIP
<i>Glinus radiatus</i>	spreading sweetjuice	PIP
<i>Mollugo verticillata</i>	carpetweed, green carpetweed	PIP
<i>Phytolacca americana</i> var. <i>americana</i>	American pokeweed	PIP
<i>Claytonia virginica</i>	narrow-leaved spring beauty, Spring beauty, Virginia springbeauty	PIP
<i>Portulaca pilosa</i>	chisme, kiss me quick, kiss-me-quick	PIP
<i>Ilex ambigua</i>	Carolina holly	PIP
<i>Ilex coriacea</i>	large gallberry	PIP
<i>Ilex decidua</i>	possumhaw	PIP
<i>Ilex longipes</i>	Georgia holly	PIP
<i>Ilex opaca</i> var. <i>opaca</i>	American holly	PIP
<i>Ilex vomitoria</i>	yaupon	PIP
<i>Euonymus americana</i>	strawberry bush, strawberrybush	PIP
<i>Callisia cordifolia</i>	Florida roseling	PIP
<i>Commelina erecta</i>	erect dayflower, whitemouth dayflower	PIP
<i>Commelina erecta</i> var. <i>angustifolia</i>	whitemouth dayflower	PIP
<i>Commelina erecta</i> var. <i>deamiana</i>	whitemouth dayflower	PIP
<i>Commelina virginica</i>	Virginia dayflower	PIP
<i>Tradescantia hirsutiflora</i>	hairyflower spiderwort	PIP
<i>Tradescantia ohiensis</i>	bluejacket, Ohio spiderwort	PIP
<i>Tradescantia reverchonii</i>	reverchon spiderwort, Reverchon's spiderwort	PIP

<i>Mayaca fluviatilis</i>	stream bogmoss	PIP
<i>Xyris ambigua</i>	coastalplain yelloweyed grass	PIP
<i>Xyris baldwiniana</i>	Baldwin's yelloweyed grass	PIP
<i>Xyris difformis</i> var. <i>curtissii</i>	Curtiss' yelloweyed grass	PIP
<i>Xyris difformis</i> var. <i>difformis</i>	bog yelloweyed grass	PIP
<i>Xyris drummondii</i>	Drummond's yelloweyed grass	U
<i>Xyris jupicai</i>	Richard's yelloweyed grass	PIP
<i>Xyris laxifolia</i> var. <i>iridifolia</i>	irisleaf yelloweyed grass, yelloweyegrass	PIP
<i>Xyris louisianica</i>	Louisiana yelloweyed grass	PIP
<i>Xyris scabrifolia</i>	Harper's yelloweyed grass	U
<i>Xyris stricta</i>	pineland yelloweyed grass	PIP
<i>Xyris torta</i>	common yelloweyed grass, slender yelloweyed grass	PIP
<i>Cornus drummondii</i>	roughleaf dogwood	PIP
<i>Cornus florida</i>	flowering dogwood	PIP
<i>Cornus foemina</i>	stiff dogwood	PIP
<i>Nyssa aquatica</i>	water tupelo	PIP
<i>Nyssa biflora</i>	swamp tupelo	PIP
<i>Nyssa sylvatica</i>	black gum, black tupelo, blackgum	PIP
<i>Bulbostylis barbata</i>	watergrass	PIP
<i>Bulbostylis ciliatifolia</i> var. <i>ciliatifolia</i>	capillary hairsedge	PIP
<i>Bulbostylis ciliatifolia</i> var. <i>coarctata</i>	capillary hairsedge	PIP
<i>Carex abscondita</i>	thicket sedge	PIP
<i>Carex albicans</i> var. <i>australis</i>	stellate sedge	PIP
<i>Carex albolutescens</i>	greenwhite sedge	PIP
<i>Carex annectens</i>	yellowfruit sedge	PIP
<i>Carex atlantica</i> ssp. <i>capillacea</i>	howe sedge, prickly bog sedge	PIP
<i>Carex basiantha</i>	Willdenow's sedge	PIP
<i>Carex blanda</i>	bland sedge, eastern	PIP

	woodland sedge, woodland sedge	
<i>Carex brevior</i>	brevior sedge, fescue sedge, shortbeak sedge	PIP
<i>Carex bulbostylis</i>	False hair sedge	PIP
<i>Carex caroliniana</i>	Carolina sedge	PIP
<i>Carex cephalophora</i>	oval-leaf sedge, oval-leaved sedge, ovalleaf sedge	PIP
<i>Carex cherokeensis</i>	Cherokee sedge	PIP
<i>Carex complanata</i>	blue sedge, hirsute sedge	PIP
<i>Carex corrugata</i>	Prune fruit sedge	PIP
<i>Carex crebriflora</i>	coastalplain sedge	PIP
<i>Carex crus-corvi</i>	ravenfoot sedge	PIP
<i>Carex debilis</i> var. <i>debilis</i>	white edge sedge	PIP
<i>Carex digitalis</i>	slender wood sedge, slender woodland sedge	PIP
<i>Carex digitalis</i> var. <i>asymmetrica</i>	Slender wood sedge	PIP
<i>Carex festucacea</i>	fescue sedge	PIP
<i>Carex flaccosperma</i>	thinfruit sedge	PIP
<i>Carex frankii</i>	Frank's sedge	PIP
<i>Carex gigantea</i>	giant sedge	PIP
<i>Carex glaucescens</i>	clustered sedge, southern waxy sedge	PIP
<i>Carex intumescens</i>	greater bladder sedge	PIP
<i>Carex jorii</i>	cypress swamp sedge	PIP
<i>Carex leavenworthii</i>	Leavenworth's sedge	PIP
<i>Carex leptalea</i> ssp. <i>harperi</i>	Harper's sedge	PIP
<i>Carex lonchocarpa</i>	southern long sedge	PIP
<i>Carex longii</i>	Long's sedge	PIP
<i>Carex louisianica</i>	Louisiana sedge	PIP
<i>Carex lupulina</i>	hop sedge	PIP
<i>Carex lurida</i>	shallow sedge	PIP
<i>Carex muehlenbergii</i>	Muhlenberg's sedge	PIP

<i>var. enervis</i>		
<i>Carex nigromarginata</i> <i>var. floridana</i>	Florida sedge	PIP
<i>Carex oxylepis</i> <i>var. oxylepis</i>	sharp-scale sedge	PIP
<i>Carex planispicata</i>	flat-spiked sedge	PIP
<i>Carex reniformis</i>	kidney-shaped sedge	PIP
<i>Carex retroflexa</i>	reflexed sedge	PIP
<i>Carex striatula</i>	lined sedge	PIP
<i>Carex styloflexa</i>	bent sedge	PIP
<i>Carex tenax</i>	wire sedge	PIP
<i>Carex tetrastachya</i>	Britton's sedge	PIP
<i>Carex texensis</i>	Texas sedge	PIP
<i>Carex triangularis</i>	eastern fox sedge	PIP
<i>Carex tribuloides</i> <i>var. sangamonensis</i>	blunt broom sedge	PIP
<i>Carex verrucosa</i>	warty sedge	PIP
<i>Carex vulpinoidea</i>	common fox sedge, fox sedge	PIP
<i>Cladium mariscus</i> <i>ssp. jamaicense</i>	Jamaica sawgrass, Jamaica swamp sawgrass	PIP
<i>Cyperus acuminatus</i>	taper-tip flat sedge, taperleaf flatsedge, tapertip flatsedge	PIP
<i>Cyperus articulatus</i>	jointed flatsedge	PIP
<i>Cyperus compressus</i>	poorland flatsedge	PIP
<i>Cyperus croceus</i>	Baldwin's flatsedge	PIP
<i>Cyperus digitatus</i>	finger flatsedge	PIP
<i>Cyperus echinatus</i>	globe flatsedge	PIP
<i>Cyperus elegans</i>	royal flatsedge, sticky flatsedge	PIP
<i>Cyperus entrerianus</i>	woodrush flatsedge	PIP
<i>Cyperus erythrorhizos</i>	red-root flat sedge, redroot flatsedge, redroot nutgrass	PIP
<i>Cyperus esculentus</i>	chufa, chufa flatsedge, yellow nutgrass, yellow nutsedge	PIP

<i>Cyperus grayoides</i>	Illinois flatsedge	PIP
<i>Cyperus haspan</i>	haspan flatsedge	PIP
<i>Cyperus hermaphroditus</i>	Hermaphrodite cypress	PIP
<i>Cyperus hystericinus</i>	bristly flatsedge	PIP
<i>Cyperus iria</i>	ricefield flatsedge	PIP
<i>Cyperus ochraceus</i>	pond flatsedge	PIP
<i>Cyperus odoratus</i>	fragrant flatsedge, rusty flat sedge	PIP
<i>Cyperus oxylepis</i>	sharp-scale flatsedge	PIP
<i>Cyperus plukenetii</i>	Plukenet's flatsedge	PIP
<i>Cyperus polystachyos</i>	manyspike flatsedge	PIP
<i>Cyperus pseudovegetus</i>	marsh flatsedge	PIP
<i>Cyperus retroflexus</i>	one-flower flatsedge, oneflower flatsedge	PIP
<i>Cyperus retrorsus</i> <i>var. retrorsus</i>	pine barren flatsedge	PIP
<i>Cyperus rotundus</i>	chaguan humatag, cocoglass, kili'o'opu, nutgrass, pakopako, purple nutsedge	PIP
<i>Cyperus squarrosus</i>	awned flat sedge, bearded flatsedge, bearded nutgrass	PIP
<i>Cyperus strigosus</i>	straw-colored flatsedge, straw-colored flatsedge, straw-colored nutgrass, straw-colored nutgrass	PIP
<i>Cyperus surinamensis</i>	tropical flatsedge	PIP
<i>Cyperus thyrsoiflorus</i>	Southern flat sedge, southern flatsedge	PIP
<i>Cyperus virens</i>	green flatsedge	PIP
<i>Eleocharis baldwinii</i>	Baldwin's spikerush	PIP
<i>Eleocharis geniculata</i>	Canada spikesedge	PIP
<i>Eleocharis microcarpa</i>	smallfruit spikerush	PIP
<i>Eleocharis montana</i>	mountain spike-rush, mountain spikerush	PIP

<i>Eleocharis montevidensis</i>	sand spikerush	PIP
<i>Eleocharis obtusa</i>	blunt spikerush, blunt spikesedge	PIP
<i>Eleocharis tortilis</i>	twisted spikerush	PIP
<i>Eleocharis tuberculosa</i>	cone-cup spikerush	PIP
<i>Fimbristylis autumnalis</i>	slender fimbry	PIP
<i>Fimbristylis dichotoma</i>	forked fimbry	PIP
<i>Fimbristylis miliacea</i>	grasslike fimbry	PIP
<i>Fimbristylis puberula</i> var. <i>puberula</i>	hairy fimbry	PIP
<i>Fimbristylis tomentosa</i>	woolly fimbry	PIP
<i>Fimbristylis vahlii</i>	Vahl fimbry, Vahl's fimbry	PIP
<i>Fuirena breviseta</i>	saltmarsh umbrella-sedge, saltmarsh umbrellasedge	PIP
<i>Fuirena bushii</i>	Bush's umbrella-sedge, Bush's umbrellasedge	PIP
<i>Fuirena pumila</i>	dwarf umbrella-sedge, dwarf umbrellasedge	PIP
<i>Fuirena squarrosa</i>	hairy umbrella-sedge, hairy umbrellasedge	PIP
<i>Isolepis carinata</i>	keeled bulrush	PIP
<i>Kyllinga brevifolia</i>	shortleaf spikesedge	PIP
<i>Kyllinga odorata</i>	fragrant spikesedge	PIP
<i>Kyllinga pumila</i>	low spikesedge	PIP
<i>Rhynchospora caduca</i>	anglestem beaksedge	PIP
<i>Rhynchospora cephalantha</i>	bunched beaksedge	PIP
<i>Rhynchospora colorata</i>	starrush whitetop	PIP
<i>Rhynchospora corniculata</i>	shortbristle horned beaksedge	PIP
<i>Rhynchospora divergens</i>	spreading beaksedge	PIP
<i>Rhynchospora elliotii</i>	Elliott's beaksedge	PIP
<i>Rhynchospora fascicularis</i>	fascicled beaksedge	PIP
<i>Rhynchospora filifolia</i>	threadleaf beaksedge	PIP
<i>Rhynchospora globularis</i> var.	globe beaksedge	PIP

<i>globularis</i>		
<i>Rhynchospora globularis</i> var. <i>pinetorum</i>	globe beaksedge	PIP
<i>Rhynchospora glomerata</i>	clustered beaksedge	PIP
<i>Rhynchospora gracilentata</i>	slender beaksedge	PIP
<i>Rhynchospora grayi</i>	Gray's beaksedge	PIP
<i>Rhynchospora harveyi</i>	Harvey's beaksedge	PIP
<i>Rhynchospora inexpansa</i>	nodding beaksedge	PIP
<i>Rhynchospora latifolia</i>	sandswamp whitetop	PIP
<i>Rhynchospora macrostachya</i>	tall horned beaksedge	PIP
<i>Rhynchospora mixta</i>	mingled beaksedge	PIP
<i>Rhynchospora oligantha</i>	featherbristle beaksedge	PIP
<i>Rhynchospora perplexa</i>	pineland beaksedge	PIP
<i>Rhynchospora plumosa</i>	plumed beaksedge	PIP
<i>Rhynchospora pusilla</i>	fairy beaksedge	PIP
<i>Rhynchospora rariflora</i>	fewflower beaksedge	PIP
<i>Rhynchospora recognita</i>	globe beaksedge	PIP
<i>Rhynchospora scirpoides</i>	longbeak beaksedge	PIP
<i>Schoenoplectus californicus</i>	California bulrush	PIP
<i>Schoenoplectus tabernaemontani</i>	great bulrush, soft-stem bulrush, softstem bulrush	PIP
<i>Scirpus cyperinus</i>	bulrush, woolgrass	PIP
<i>Scirpus divaricatus</i>	spreading bulrush	PIP
<i>Scleria baldwinii</i>	Baldwin's nutrush	PIP
<i>Scleria ciliata</i>	fringed nutrush	PIP
<i>Scleria ciliata</i> var. <i>ciliata</i>	fringed nutrush	PIP
<i>Scleria georgiana</i>	slenderfruit nutrush	PIP

<i>Scleria oligantha</i>	littlehead nutrush	PIP
<i>Scleria pauciflora</i> var. <i>pauciflora</i>	fewflower nutrush	PIP
<i>Scleria reticularis</i>	netted nutrush	PIP
<i>Scleria triglomerata</i>	whip nutrush	PIP
<i>Agrostis elliottiana</i>	Elliot bentgrass, elliott bentgrass, Elliott's bentgrass	PIP
<i>Agrostis hyemalis</i>	winter bentgrass	PIP
<i>Agrostis perennans</i>	autumm bentgrass, upland bent, upland bentgrass	PIP
<i>Aira caryophyllea</i> var. <i>capillaris</i>	Silvery hairgrass	PIP
<i>Andropogon gerardii</i>	big bluestem, bluejoint, turkeyfoot	PIP
<i>Andropogon glomeratus</i>	bushy bluestem	PIP
<i>Andropogon gyrans</i>	Elliott's bluestem	PIP
<i>Andropogon gyrans</i> var. <i>gyrans</i>	elliott bluestem, Elliott's bluestem	PIP
<i>Andropogon ternarius</i> var. <i>ternarius</i>	splitbeard bluestem	PIP
<i>Andropogon virginicus</i>	broomsedge, broomsedge bluestem, yellow bluestem	PIP
<i>Andropogon virginicus</i> var. <i>virginicus</i>	broomsedge, broomsedge bluestem	PIP
<i>Anthaenantia rufa</i>	purple silkyscale	PIP
<i>Anthaenantia villosa</i>	green silkyscale	PIP
<i>Aristida desmantha</i>	curly threeawn	PIP
<i>Aristida lanosa</i>	woolysheath threeawn, woolysheath threeawn	PIP
<i>Aristida longispica</i> var. <i>geniculata</i>	red threeawn, slimspike threeawn	PIP
<i>Aristida longispica</i> var. <i>longispica</i>	red threeawn, slimspike threeawn	PIP
<i>Aristida oligantha</i>	Oldfield (Prairie) 3-awn, oldfield threeawn, prairie threeawn	PIP

<i>Aristida palustris</i>	longleaf threeawn	PIP
<i>Aristida purpurascens</i> var. <i>purpurascens</i>	Arrowfeather 3-awn, arrowfeather threeawn, longleaf threeawn	PIP
<i>Aristida purpurascens</i> var. <i>virgata</i>	arrowfeather threeawn	PIP
<i>Arundinaria gigantea</i> ssp. <i>gigantea</i>	giant cane	PIP
<i>Axonopus fissifolius</i>	carpetgrass, common carpetgrass, Louisiana grass, mat grass, narrowleaved carpetgrass	PIP
<i>Axonopus furcatus</i>	big carpetgrass	PIP
<i>Bambusa multiplex</i>	hedge bamboo	PIP
<i>Bothriochloa ischaemum</i> var. <i>songarica</i>	king ranch bluestem, yellow bluestem	PIP
<i>Briza minor</i>	little quakinggrass	PIP
<i>Bromus catharticus</i>	rescue brome, rescue grass, rescuegras, rescuegrass	PIP
<i>Bromus japonicus</i>	Japanese brome, Japanese brome grass, Japanese chess	PIP
<i>Cenchrus spinifex</i>	coastal sandbur	PIP
<i>Chasmanthium latifolium</i>	broadleaf uniola, Indian wood-oats, Indian woodoats	PIP
<i>Chasmanthium laxum</i>	slender woodoats, spike uniola	PIP
<i>Chasmanthium laxum</i> var. <i>sessiliflorum</i>	slender woodoats	PIP
<i>Coelorachis cylindrica</i>	Carolina jointail, cylinder jointail grass	PIP
<i>Coelorachis rugosa</i>	wrinkled jointail grass	PIP
<i>Cynodon dactylon</i>	Bermudagrass, chiendent pied-de-poule, common bermudagrass, devilgrass, grama-seda, manienie, motie molulu	PIP
<i>Dichantheium aciculare</i>	needleleaf rosette grass	PIP

<i>Dichantherium acuminatum</i> var. <i>acuminatum</i>	tapered rosette grass	PIP
<i>Dichantherium acuminatum</i> var. <i>fasciculatum</i>	Huachuca panic, tapered rosette grass, western panicgrass	PIP
<i>Dichantherium acuminatum</i> var. <i>lindheimeri</i>	Lindheimer panicgrass	PIP
<i>Dichantherium boscii</i>	Bosc's panicgrass	PIP
<i>Dichantherium commutatum</i>	variable panicgrass	PIP
<i>Dichantherium consanguineum</i>	blood panicgrass	PIP
<i>Dichantherium depauperatum</i>	starved panicgrass	PIP
<i>Dichantherium dichotomum</i> var. <i>dichotomum</i>	cypress panicgrass	PIP
<i>Dichantherium dichotomum</i> var. <i>ensifolium</i>	cypress panicgrass	PIP
<i>Dichantherium dichotomum</i> var. <i>tenuis</i>	cypress panicgrass	PIP
<i>Dichantherium laxiflorum</i>	openflower rosette grass	PIP
<i>Dichantherium longiligulatum</i>	coastalplain panicgrass, coastalplain panicum	PIP
<i>Dichantherium oligosanthes</i> var. <i>oligosanthes</i>	Heller's rosette grass	PIP
<i>Dichantherium oligosanthes</i> var. <i>scribnerianum</i>	Heller's rosette grass, Scribner panic, Scribner panicum, scribner's panicum, Scribner's rosette grass, Scribner's panicum	PIP
<i>Dichantherium ovale</i>	eggleaf rosette grass	PIP
<i>Dichantherium ravenelii</i>	Ravenel's rosette grass	PIP
<i>Dichantherium scabriusculum</i>	woolly rosette grass	PIP
<i>Dichantherium scoparium</i>	velvet panicum	PIP

<i>Dichantherium sphaerocarpon</i> var. <i>isophyllum</i>	roundseed panicgrass, roundseed panicum	PIP
<i>Dichantherium sphaerocarpon</i> var. <i>sphaerocarpon</i>	roundseed panicgrass, roundseed panicum	PIP
<i>Dichantherium spretum</i>	Eaton's rosette grass	PIP
<i>Dichantherium villosissimum</i>	white-hair rosette grass, whitehair rosette grass	PIP
<i>Dichantherium villosissimum</i> var. <i>villosissimum</i>	white-hair rosette grass, whitehair rosette grass	PIP
<i>Dichantherium wrightianum</i>	Wright's rosette grass	PIP
	fingergrass, Henry's crabgrass, kukaepua'a, saulangi, smooth crabgrass, Southern crab grass, southern crabgrass, tropical crabgrass	PIP
<i>Digitaria ciliaris</i>		PIP
<i>Digitaria cognata</i> var. <i>cognata</i>	Carolina crabgrass, fall witchgrass	PIP
<i>Digitaria filiformis</i>	slender crabgrass	PIP
<i>Digitaria filiformis</i> var. <i>villosa</i>	Shaggy crabgrass	PIP
	small crabgrass, smooth crab grass, smooth crabgrass	PIP
<i>Digitaria ischaemum</i>		PIP
<i>Digitaria violascens</i>	violet crabgrass	PIP
<i>Echinochloa colona</i>	jungle rice, Jungle ricegrass, junglerice, watergrass	PIP
	barnyard grass, barnyardgrass, cockspur, Japanese millet, large barnyard grass, watergrass	PIP
<i>Echinochloa crus-galli</i>		PIP
<i>Echinochloa muricata</i>	rough barnyard grass, rough barnyardgrass	PIP
	coast cockspur, coast cockspur grass, walter's barnyard grass	PIP
<i>Echinochloa walteri</i>		PIP
	crowsfoot grass, goose grass, goosegrass, Indian goose grass, Indian	PIP
<i>Eleusine indica</i>		PIP

	goosegrass, manienie ali'l, silver crabgrass, wiregrass	
<i>Elymus virginicus</i> var. <i>virginicus</i>	Virginia wild rye, Virginia wildrye	PIP
<i>Eragrostis elliotii</i>	field lovegrass	PIP
<i>Eragrostis hirsuta</i>	bigtop lovegrass	PIP
<i>Eragrostis hypnoides</i>	creeping lovegrass, teal love grass, teal lovegrass	PIP
<i>Eragrostis intermedia</i>	plains lovegrass	PIP
<i>Eragrostis japonica</i>	pond lovegrass	PIP
<i>Eragrostis lugens</i>	mourning lovegrass	PIP
<i>Eragrostis refracta</i>	coastal lovegrass	PIP
<i>Eragrostis secundiflora</i> ssp. <i>oxylepis</i>	red lovegrass	PIP
<i>Eragrostis spectabilis</i>	petticoat-climber, purple lovegrass	PIP
<i>Eremochloa ophiuroides</i>	centipede grass	PIP
<i>Eustachys petraea</i>	pinewoods fingergrass	PIP
<i>Gymnopogon ambiguus</i>	bearded skeletongrass	PIP
<i>Hordeum pusillum</i>	little barley, little wildbarley	PIP
<i>Leersia hexandra</i>	southern cutgrass	PIP
<i>Leersia lenticularis</i>	catchfly grass	PIP
<i>Leersia oryzoides</i>	rice cut grass, rice cutgrass	PIP
<i>Leersia virginica</i>	white grass, whitegrass	PIP
<i>Lolium arundinaceum</i>	Lolium arundinaceum, tall fescue	PIP
<i>Lolium perenne</i>	italian ryegrass, perennial rye grass, perennial ryegrass	PIP
<i>Lolium perenne</i> ssp. <i>perenne</i>	perennial rye grass, perennial ryegrass	PIP
<i>Melica mutica</i>	oniongrass, twoflower melic, twoflower melicgrass	PIP
<i>Muhlenbergia capillaris</i>	hairawn muhly	PIP
<i>Muhlenbergia expansa</i>	Cut-over Muhly	PIP
<i>Oplismenus hirtellus</i>	Shortleaf basketgrass	PIP

<i>ssp. setarius</i>		
<i>Panicum anceps</i>	beaked panicgrass, beaked panicum	PIP
<i>Panicum brachyanthum</i>	prairie panicgrass	PIP
<i>Panicum dichotomiflorum</i> var. <i>dichotomiflorum</i>	fall panicgrass, fall panicum, western witchgrass	PIP
<i>Panicum hemitomom</i>	maidencane, mountain panic	PIP
<i>Panicum repens</i>	couch panicum, creeping panic, panic rampant, torpedo grass, torpedograss, wainaku grass	PIP
<i>Panicum rigidulum</i>	redtop panicgrass, redtop panicum	PIP
<i>Panicum sphaerocarpon</i> var. <i>isophyllum</i>	Round-seed rosette grass	PIP
<i>Panicum tenerum</i>	bluejoint panicgrass, bluejoint panicum	PIP
<i>Panicum verrucosum</i>	warty panicgrass	PIP
<i>Panicum virgatum</i>	old switch panic grass, switchgrass	PIP
<i>Parapholis incurva</i>	curved sicklegrass	PIP
<i>Paspalum bifidum</i>	pitchfork crowngrass	PIP
<i>Paspalum conjugatum</i>	herbe creole, Hilo grass, hilograss, muhsrasre, rehn wei, sour grass, ti grass	PIP
<i>Paspalum dilatatum</i>	dallas grass, dallis grass, dallisgrass, herbe de miel, herbe sirop, hiku nua, palpalum dilate, water grass	PIP
<i>Paspalum floridanum</i>	Florida paspalum	PIP
<i>Paspalum laeve</i>	field paspalum	PIP
<i>Paspalum langei</i>	rustyseed paspalum	PIP
<i>Paspalum lividum</i>	longtom	PIP

<i>Paspalum minus</i>	mat paspalum, matted paspalum	PIP
<i>Paspalum notatum</i>	Bahia grass, bahiagrass	PIP
<i>Paspalum plicatulum</i>	brownseed paspalum	PIP
<i>Paspalum praecox</i>	early paspalum	PIP
<i>Paspalum pubiflorum</i>	hairyseed paspalum	PIP
<i>Paspalum repens</i> var. <i>fluitans</i>	Horsetail paspalum	PIP
<i>Paspalum setaceum</i>	fringeleaf paspalum, sand paspalum, slender crown grass, thin paspalum	PIP
<i>Paspalum urvillei</i>	Vasey grass, Vasey's grass, vaseygrass	PIP
<i>Phalaris angusta</i>	timothy canarygrass	PIP
<i>Phanopyrum gymnocarpon</i>	Savannah panic grass, savannah panicum, savannah-panicgrass	PIP
<i>Phyllostachys aurea</i>	golden bamboo	PIP
<i>Piptochaetium avenaceum</i>	blackseed needlegrass, blackseed speargrass	PIP
<i>Poa annua</i>	annual blue grass, annual bluegrass, walkgrass	PIP
<i>Poa autumnalis</i>	autumn bluegrass	PIP
<i>Polypogon monspeliensis</i>	annual rabbit's-foot grass, annual rabbitsfoot grass, rabbit'sfootgrass, rabbitfoot beardgrass, rabbitfoot grass, rabbitfoot polypogon, rabbitfootgrass	PIP
<i>Saccharum baldwinii</i>	narrow plumegrass	PIP
<i>Saccharum giganteum</i>	sugarcane plumegrass	PIP
<i>Sacciolepis indica</i>	glenwoodgrass	PIP
<i>Sacciolepis striata</i>	American cupscale	PIP
<i>Schizachyrium scoparium</i> var. <i>divergens</i>	little bluestem	PIP
<i>Schizachyrium</i>	little bluestem	PIP

<i>scoparium</i> var. <i>scoparium</i>		
<i>Schizachyrium tenerum</i>	slender bluestem, slender little bluestem	PIP
<i>Setaria parviflora</i>	knotroot bristlegrass, marsh bristle grass, marsh bristlegrass, yellow bristlegrass	PIP
<i>Sorghastrum elliotii</i>	slender Indiangrass	PIP
<i>Sorghastrum nutans</i>	Indiangrass, yellow indian-grass	PIP
<i>Sorghum halepense</i>	aleppo milletgrass, herbe de Cuba, Johnson grass, Johnsongrass, sorgho d'Alep, sorgho de alepo, zacate Johnson	PIP
<i>Sphenopholis filiformis</i>	longleaf wedgescale, wedgescale	PIP
<i>Sphenopholis intermedia</i>	slender wedgegrass, slender wedgescale	PIP
<i>Sphenopholis obtusata</i>	prairie wedgegrass, prairie wedgescale	PIP
<i>Sporobolus clandestinus</i>	rough dropseed	PIP
<i>Sporobolus compositus</i> var. <i>macer</i>	composite dropseed, Mississippi dropseed	PIP
<i>Sporobolus indicus</i>	Rattail smutgrass, smut grass, smutgrass	PIP
<i>Sporobolus junceus</i>	pineywoods dropseed	PIP
<i>Sporobolus silveanus</i>	Silveus' dropseed	PIP
<i>Steinchisma hians</i>	gaping grass, gaping panicum	PIP
<i>Stenotaphrum secundatum</i>	St. Augustine grass, St. Augustinegrass	PIP
<i>Tridens ambiguus</i>	pine barren fluffgrass, pinebarren tridens	PIP
<i>Tridens flavus</i> var. <i>chapmanii</i>	Chapman's tridens	PIP
<i>Tridens flavus</i> var. <i>flavus</i>	purpletop tridens	PIP

<i>Tridens strictus</i>	longspike tridens	PIP
<i>Triplasis purpurea</i>	purple sand grass, purple sandgrass	PIP
<i>Tripsacum dactyloides</i>	eastern gamagrass	PIP
<i>Urochloa platyphylla</i>	broadleaf signalgrass	PIP
<i>Urochloa texana</i>	Texas signalgrass	PIP
<i>Vulpia octoflora</i>	eight-flower six-weeks grass, pullout grass, sixweeks fescue, sixweeks grass	PIP
<i>Zizaniopsis miliacea</i>	giant cutgrass	PIP
<i>Lonicera japonica</i>	Chinese honeysuckle, Japanese honeysuckle	PIP
<i>Lonicera sempervirens</i> var. <i>sempervirens</i>	trumpet honeysuckle	PIP
<i>Sambucus nigra</i> ssp. <i>canadensis</i>	blue elder, common elderberry, elder, elderberry, Mexican elderberry	PIP
<i>Viburnum acerifolium</i>	mapleleaf viburnum	PIP
<i>Viburnum dentatum</i>	arrow-wood viburnum, arrowwood, southern arrowwood	PIP
<i>Viburnum dentatum</i> var. <i>dentatum</i>	southern arrowwood	PIP
<i>Viburnum nudum</i>	possumhaw, possumhaw viburnum	PIP
<i>Viburnum nudum</i> var. <i>nudum</i>	possumhaw	PIP
<i>Viburnum rufidulum</i>	rusty blackhaw, rusty viburnum	PIP
<i>Valerianella radiata</i>	beaked cornsalad	PIP
<i>Valerianella stenocarpa</i>	narrowcell cornsalad	U
<i>Diospyros virginiana</i>	common persimmon, eastern persimmon, Persimmon	PIP
<i>Sideroxylon lanuginosum</i>	gum bully	PIP
<i>Sideroxylon lanuginosum</i> ssp.	gum bully	PIP

<i>oblongifolium</i>		
<i>Halesia diptera</i>	two-wing silverbell, twowing silverbell	PIP
<i>Styrax americanus</i>	American snowbell, snowbell	PIP
<i>Styrax grandifolius</i>	bigleaf snowbell	PIP
<i>Symplocos tinctoria</i>	common sweetleaf, sweetleaf	PIP
<i>Equisetum hyemale</i> var. <i>affine</i>	scouringrush horsetail, stout scouringrush, tall scouring-rush	PIP
<i>Clethra alnifolia</i>	Coast pepper-bush	PIP
<i>Cyrilla racemiflora</i>	swamp cyrilla, swamp titi	PIP
<i>Leucothoe racemosa</i>	swamp doghobble	PIP
<i>Lyonia ligustrina</i> var. <i>foliosiflora</i>	maleberry	PIP
<i>Lyonia mariana</i>	pedmont staggerbush, staggerbush	PIP
<i>Rhododendron canescens</i>	mountain azalea, piedmont azalea	PIP
<i>Rhododendron oblongifolium</i>	Texas azalea	PIP
<i>Rhododendron prinophyllum</i>	early azalea	PIP
<i>Rhododendron viscosum</i>	swamp azalea	PIP
<i>Vaccinium arboreum</i>	farkleberry, tree sparkleberry, tree-huckleberry	PIP
<i>Vaccinium corymbosum</i>	highbush blueberry	PIP
<i>Vaccinium stamineum</i>	deerberry	PIP
<i>Monotropa uniflora</i>	Indianpipe, one-flower Indian-pipe	PIP
<i>Eriocaulon decangulare</i>	tenangle pipewort	PIP
<i>Eriocaulon koernickianum</i>	gulf pipewort, smallhead pipewort	U

<i>Eriocaulon texense</i>	Texas pipewort	PIP
<i>Lachnocaulon anceps</i>	whitehead bogbutton	PIP
<i>Acalypha gracilens</i>	slender copperleaf, slender threeseed mercury	PIP
<i>Acalypha rhomboidea</i>	Virginia threeseed mercury	PIP
<i>Acalypha virginica</i>	mercuryweed, threeseeded mercury, Virginia copperleaf, Virginia threeseed mercury, wax balls	PIP
<i>Caperonia palustris</i>	sacatrapo, Texasweed	PIP
<i>Chamaesyce cordifolia</i>	heartleaf sandmat	PIP
<i>Chamaesyce humistrata</i>	spreading sandmat	PIP
<i>Chamaesyce maculata</i>	large spurge, spotted sandmat, spotted spurge	PIP
<i>Chamaesyce nutans</i>	eyebane, nodding spurge, spotted sandmat, spotted spurge	PIP
<i>Cnidoscolus texanus</i>	bullnettle, Texas bullnettle	PIP
<i>Croton argyranthemus</i>	healing croton, silverleaf croton	PIP
<i>Croton capitatus</i>	doveweed, hogweed, hogwort, woolly croton, wooly croton	PIP
<i>Croton capitatus var. lindheimeri</i>	Lindheimer's hogwort	PIP
<i>Croton glandulosus</i>	vente conmigo	PIP
<i>Croton glandulosus var. septentrionalis</i>	vente conmigo	PIP
<i>Croton michauxii</i>	Michaux's croton, narrowleaf rushfoil	PIP
<i>Croton monanthogynus</i>	oneseeded croton, prairie tea, prairie-tea	PIP
<i>Croton willdenowii</i>	two-fruit rushfoil, Willdenow's croton	PIP
<i>Euphorbia corollata</i>	flowering spurge, floweringspurge euphorbia	PIP

<i>Euphorbia dentata</i>	toothed euphorbia, toothed spurge, toothedleaf poinsettia	PIP
<i>Manihot grahamii</i>	Graham's manihot	PIP
<i>Phyllanthus caroliniensis ssp. caroliniensis</i>	Carolina leaf-flower, Carolina leafflower	PIP
<i>Phyllanthus pudens</i>	birdseed leaf-flower, birdseed leafflower	PIP
<i>Phyllanthus urinaria</i>	chamber bitter	PIP
<i>Sebastiania fruticosa</i>	Gulf Sebastian-bush	PIP
<i>Stillingia sylvatica ssp. sylvatica</i>	queen's-delight, queensdelight	PIP
<i>Tragia smallii</i>	Small's noseburn	PIP
<i>Tragia urens</i>	wavyleaf noseburn	PIP
<i>Tragia urticifolia</i>	nettleleaf noseburn	PIP
<i>Triadica sebifera</i>	tallowtree	PIP
<i>Vernicia fordii</i>	tungoil tree	PIP
<i>Aeschynomene indica</i>	Indian jointvetch, jointvetch, kat sola, Kat sola, Indian jointvetch	PIP
<i>Albizia julibrissin</i>	mimosa, mimosa tree, powderpuff tree, silk tree, silktree	PIP
<i>Amorpha fruticosa</i>	desert false indigo, desert indigobush, dullleaf indigo, false indigo, false indigo-bush, indigobush, leadplant	PIP
<i>Amorpha laevigata</i>	smooth false indigo, smooth indigobush	PIP
<i>Amorpha paniculata</i>	panicled false indigo, panicled indigobush	PIP
<i>Apios americana</i>	apios americana, groundnut, potatobean	PIP
<i>Baptisia alba</i>	white false indigo, white wild indigo, White wildindigo	PIP
<i>Baptisia bracteata var. laevicaulis</i>	longbract wild indigo	PIP

<i>Baptisia bracteata</i> var. <i>leucophaea</i>	longbract wild indigo	PIP
<i>Baptisia nuttalliana</i>	Nuttall's wild indigo	PIP
<i>Baptisia sphaerocarpa</i>	green wildindigo, round wildindigo, yellow wild indigo	U
<i>Centrosema virginianum</i>	butterflypea, spurred butterfly pea	PIP
<i>Cercis canadensis</i>	eastern redbud, Redbud	PIP
<i>Cercis canadensis</i> var. <i>canadensis</i>	eastern redbud, redbud	PIP
<i>Chamaecrista fasciculata</i>	partridge pea, Showy partridgepea, sleepingplant	PIP
<i>Chamaecrista nictitans</i>	partridge pea, partridge-pea	PIP
<i>Clitoria mariana</i>	Atlantic pigeonwings, pidgeonwings	PIP
<i>Crotalaria sagittalis</i>	arrow crotalaria, arrowhead rattlebox	PIP
<i>Dalea phleoides</i> var. <i>phleoides</i>	slimspike prairie clover, slimspike prairieclover	PIP
<i>Dalea villosa</i> var. <i>grisea</i>	silky prairie clover, silky prairieclover	PIP
<i>Desmanthus illinoensis</i>	illinois bundleflower, prairie bundleflower	PIP
<i>Desmodium ciliare</i>	hairy small-leaf ticktrefoil, littleleaf tickclover	PIP
<i>Desmodium glabellum</i>	Dillenius' ticktrefoil	PIP
<i>Desmodium laevigatum</i>	smooth tickclover, smooth ticktrefoil	PIP
<i>Desmodium nuttallii</i>	Nuttall's ticktrefoil	PIP
<i>Desmodium obtusum</i>	stiff tickclover, stiff ticktrefoil	PIP
<i>Desmodium paniculatum</i>	narrow-leaf tick-trefoil, paniced tickclover, panicedleaf ticktrefoil	PIP
<i>Desmodium pauciflorum</i>	fewflower ticktrefoil, fewflowered tickclover	PIP
<i>Desmodium rotundifolium</i>	prostrate ticktrefoil, roundhead tickclover	PIP
<i>Desmodium</i>	Sessile tickclover, sessileleaf	PIP

<i>sessilifolium</i>	tickclover, sessileleaf ticktrefoil	
<i>Desmodium viridiflorum</i>	velvetleaf tickclover, velvetleaf ticktrefoil	PIP
<i>Dioclea multiflora</i>	Boykin's clusterpea	PIP
<i>Erythrina herbacea</i>	eastern coralbean, redcardinal	PIP
<i>Galactia regularis</i>	eastern milkpea	PIP
<i>Galactia volubilis</i>	downy milkpea	PIP
<i>Gleditsia aquatica</i>	water honeylocust, water locust, waterlocust	PIP
<i>Gleditsia triacanthos</i>	common honeylocust, Honey locust, honey-locust, honeylocust, honeylocusts	PIP
<i>Glottidium vesicarium</i>	bagpod	PIP
<i>Indigofera suffruticosa</i>	anil de pasto, indigobush	PIP
<i>Kummerowia striata</i>	common lespedeza, Japanese clover	PIP
<i>Lathyrus hirsutus</i>	Caley pea, Singletary pea	PIP
<i>Lespedeza cuneata</i>	Chinese lespedeza, sericea lespedeza	PIP
<i>Lespedeza hirta</i> ssp. <i>hirta</i>	hairy lespedeza	PIP
<i>Lespedeza procumbens</i>	trailing lespedeza	PIP
<i>Lespedeza repens</i>	creeping lespedeza	PIP
<i>Lespedeza stuevei</i>	stuves lespedeza, tall lespedeza	PIP
<i>Lespedeza virginica</i>	slender lespedeza	PIP
<i>Lupinus perennis</i>	sundial lupine	PIP
<i>Lupinus subcarneus</i>	Texas bluebonnet	PIP
<i>Medicago lupulina</i>	black medic, black medic clover, black medick, hop clover, hop medic, nonesuch, yellow trefoil	PIP
<i>Medicago polymorpha</i>	bur clover, burclover, California burclover, toothed medick	PIP
<i>Melilotus indicus</i>	annual yellow sweetclover,	PIP

	Indian sweet-clover	
<i>Mimosa hystericina</i>	Bristly sensitive-briar	PIP
<i>Mimosa latidens</i>	Kairn's sensitive-briar, Mimosa latidens	PIP
<i>Mimosa strigillosa</i>	herbaceous mimosa, powderpuff	PIP
<i>Neptunia pubescens</i>	tropical neptunia, tropical puff	PIP
<i>Orbexilum simplex</i>	simple scurfpea, singlestem leather-root	PIP
<i>Pueraria montana var. lobata</i>	acha, aka, Japanese arrowroot, kudzu, nepalem, wa yaka	PIP
<i>Rhynchosia difformis</i>	doubleform snoutbean	PIP
<i>Rhynchosia latifolia</i>	broadleaf snoutbean, prairie snoutbean	PIP
<i>Rhynchosia reniformis</i>	dollarleaf	PIP
<i>Robinia pseudoacacia</i>	black locust, false acacia, yellow locust	PIP
<i>Senna marilandica</i>	Maryland senna, wild senna	PIP
<i>Senna obtusifolia</i>	Java-bean, sicklepod	PIP
<i>Senna occidentalis</i>	coffee senna, septicweed	PIP
<i>Sesbania drummondii</i>	poisonbean	PIP
<i>Sesbania herbacea</i>	bigpod sesbania, hemp sesbania, peatree	PIP
<i>Sesbania punicea</i>	rattelbox, rattlebox	U
<i>Sophora affinis</i>	Eve's necklacepod, Texas sophora	PIP
<i>Strophostyles helvula</i>	trailing fuzzybean, trailing wild-bean, Trailing wildbean	PIP
<i>Strophostyles umbellata</i>	perennial wildbean, pink fuzzybean	PIP
<i>Stylosanthes biflora</i>	endbeak pencilflower, sidebeak pencilflower	PIP
<i>Tephrosia onobrychoides</i>	multibloom hoarypea, multibloom tephrosia	PIP
<i>Tephrosia virginiana</i>	Virginia tephrosia	PIP
<i>Trifolium campestre</i>	Field (Big-hop) clover, field clover, large hop clover, lesser hop clover, low hop clover	PIP

<i>Trifolium dubium</i>	hop clover, smallhop clover, suckling clover	PIP
<i>Trifolium incarnatum</i>	crimson clover	PIP
<i>Trifolium lappaceum</i>	burdock clover	PIP
<i>Trifolium repens</i>	Dutch clover, ladino clover, white clover	PIP
<i>Trifolium resupinatum</i>	Persian clover, reversed clover	PIP
<i>Vicia hirsuta</i>	tiny vetch	PIP
<i>Vicia ludoviciana ssp. ludoviciana</i>	Louisiana vetch, slim vetch	PIP
<i>Vicia minutiflora</i>	pygmyflower vetch, smallflower vetch	PIP
<i>Vicia sativa ssp. nigra</i>	common vetch, garden vetch, slimleaf vetch, vetch	PIP
<i>Vicia tetrasperma</i>	lentil vetch, sparrow vetch	PIP
<i>Vicia villosa ssp. varia</i>	vetch woolypod, winter vetch	PIP
<i>Wisteria frutescens</i>	American wisteria	PIP
<i>Zornia bracteata</i>	viperina	PIP
<i>Alnus serrulata</i>	alder, brook-side alder, hazel alder	PIP
<i>Betula nigra</i>	river birch	PIP
<i>Carpinus caroliniana ssp. caroliniana</i>	American hornbeam	PIP
<i>Ostrya virginiana</i>	eastern hophornbeam, hophornbeam	PIP
<i>Castanea pumila</i>	Allegheny chinkapin, allegheny chinkapin, chinkapin, northern catalpa	PIP
<i>Fagus grandifolia</i>	American beech	PIP
<i>Quercus alba</i>	white oak	PIP
<i>Quercus falcata</i>	southern red oak	PIP
<i>Quercus hemisphaerica</i>	Darlington oak, Darlington's oak	PIP
<i>Quercus incana</i>	bluejack oak	PIP
<i>Quercus laurifolia</i>	laurel oak	PIP
<i>Quercus lyrata</i>	overcup oak	PIP
<i>Quercus margarettiae</i>	runner oak, sand post oak	PIP
<i>Quercus marilandica</i>	blackjack oak	PIP

<i>Quercus michauxii</i>	swamp chestnut oak	PIP
<i>Quercus muhlenbergii</i>	chinkapin oak	PIP
<i>Quercus nigra</i>	water oak	PIP
<i>Quercus phellos</i>	willow oak	PIP
<i>Quercus shumardii</i>	shumard oak, Shumard's oak	PIP
<i>Quercus similis</i>	bottomland post oak, delta post oak	PIP
<i>Quercus stellata</i>	post oak	PIP
<i>Quercus texana</i>	nuttall oak, Texas red oak	PIP
<i>Quercus velutina</i>	black oak	PIP
<i>Quercus virginiana</i>	live oak	PIP
<i>Amsonia illustris</i>	Ozark bluestar	PIP
<i>Amsonia tabernaemontana</i>	eastern bluestar, willow slimpod	PIP
<i>Amsonia tabernaemontana</i> var. <i>tabernaemontana</i>	eastern bluestar	PIP
<i>Trachelospermum difforme</i>	climbing dogbane	PIP
<i>Asclepias amplexicaulis</i>	bluntleaf milkweed, clasping milkweed	PIP
<i>Asclepias longifolia</i>	longleaf milkweed	PIP
<i>Asclepias obovata</i>	pineland milkweed	PIP
<i>Asclepias perennis</i>	aquatic milkweed	PIP
<i>Asclepias rubra</i>	red milkweed	PIP
<i>Asclepias tuberosa</i>	butterfly milkweed, butterflyweed	PIP
<i>Asclepias tuberosa</i> ssp. <i>interior</i>	butterfly milkweed	PIP
<i>Asclepias variegata</i>	redring milkweed, white milkweed	PIP
<i>Asclepias verticillata</i>	eastern whorled milkweed, whorled milkweed	PIP
<i>Asclepias viridis</i>	green antelopehorn	PIP
<i>Matelea cynanchoides</i>	prairie milkvine	PIP
<i>Matelea decipiens</i>	oldfield milkvine	PIP
<i>Matelea gonocarpos</i>	angularfruit milkvine	PIP

<i>Bartonia texana</i>	Texas screwstem	PIP
<i>Bartonia verna</i>	white screwstem	PIP
<i>Centaurium muehlenbergii</i>	June centaur, Muhlenberg's centaur	PIP
<i>Centaurium pulchellum</i>	branched centaur	PIP
<i>Sabatia angularis</i>	rosepink, squarestem rosegentian	PIP
<i>Sabatia arenicola</i>	sand rose gentian, sand rosegentian	PIP
<i>Sabatia calycina</i>	coastal rose gentian, coastal rosegentian	PIP
<i>Sabatia campanulata</i>	slender rose gentian, slender rosegentian	PIP
<i>Sabatia campestris</i>	meadow pink, Prairie rose gentian, Texas star	PIP
<i>Sabatia gentianoides</i>	pinewoods rose gentian, pinewoods rosegentian	PIP
<i>Gelsemium sempervirens</i>	Carolina jessamine, evening trumpetflower	PIP
<i>Mitreola petiolata</i>	lax hornpod	PIP
<i>Mitreola sessilifolia</i>	swamp hornpod	PIP
<i>Spigelia loganioides</i>	Florida pinkroot	PIP
<i>Impatiens capensis</i>	jewelweed, spotted touch-me-not	PIP
<i>Geranium carolinianum</i> var. <i>carolinianum</i>	Carolina geranium	PIP
<i>Oxalis albicans</i> ssp. <i>albicans</i>	radishroot woodsorrel	PIP
<i>Oxalis corniculata</i>	'ihi, creeping oxalis, creeping woods, creeping woodsorrel, oxalis, yellow oxalis, yellow wood sorrel	PIP
<i>Oxalis debilis</i> var. <i>corymbosa</i>	pink woodsorrel	PIP
<i>Oxalis dillenii</i>	Dillen's oxalis	PIP
<i>Oxalis lyonii</i>	Creeping woodsorrel	PIP
<i>Oxalis stricta</i>	common yellow oxalis, erect woodsorrel, sheep sorrel, sourgrass, toad sorrel,	PIP

	upright yellow wood-sorrel, upright yellow woodsorrel, yellow woodsorrel	
<i>Oxalis violacea</i>	purple woodsorrel, violet wood-sorrel, violet woodsorrel	PIP
<i>Myriophyllum aquaticum</i>	brazilian watermilfoil, parrot feather, parrot feather watermilfoil, parrot's-feather, parrotfeather	PIP
<i>Myriophyllum pinnatum</i>	cut-leaf water-milfoil, cutleaf watermilfoil, green parrotfeather	PIP
<i>Proserpinaca palustris</i> var. <i>amblyogona</i>	marsh mermaidweed	PIP
<i>Proserpinaca palustris</i> var. <i>crebra</i>	marsh mermaidweed	PIP
<i>Proserpinaca pectinata</i>	combleaf mermaidweed, mermaidweed	PIP
<i>Hamamelis vernalis</i>	Ozark witchhazel	PIP
<i>Hamamelis virginiana</i>	American witchhazel, witch- hazel, witchhazel	PIP
<i>Liquidambar styraciflua</i>	sweetgum	PIP
<i>Platanus occidentalis</i>	American sycamore, sycamore	PIP
<i>Limnobium spongia</i>	American spongeplant, frogbite	PIP
<i>Azolla caroliniana</i>	Carolina mosquitofern	PIP
<i>Marsilea vestita</i>	hairy pepperwort, hairy water-clover, hairy waterclover, water clover	PIP
<i>Salvinia minima</i>	water fern, water spangles	PIP
<i>Carya alba</i>	mockernut hickory	PIP
<i>Carya aquatica</i>	water hickory	PIP
<i>Carya cordiformis</i>	bitternut hickory	PIP
<i>Carya glabra</i>	pignut hickory	PIP
<i>Carya illinoensis</i>	pecan	PIP
<i>Carya ovata</i>	shagbark hickory	PIP
<i>Carya texana</i>	black hickory	PIP
<i>Juglans nigra</i>	black walnut	PIP

<i>Juncus acuminatus</i>	sharp-fruit rush, tapertip rush	PIP
<i>Juncus brachycarpus</i>	whiteroot rush	PIP
<i>Juncus bufonius</i>	toad rush	PIP
<i>Juncus capitatus</i>	leafybract dwarf rush	PIP
<i>Juncus coriaceus</i>	leathery rush	PIP
<i>Juncus debilis</i>	weak rush	PIP
<i>Juncus diffusissimus</i>	slimpod rush	PIP
<i>Juncus effusus</i> var. <i>solutus</i>	lamp rush	PIP
<i>Juncus elliotii</i> var. <i>elliotii</i>	Elliott's rush	PIP
<i>Juncus marginatus</i>	grassleaf rush	PIP
<i>Juncus nodatus</i>	stout rush	PIP
<i>Juncus repens</i>	lesser creeping rush	PIP
<i>Juncus scirpoides</i>	needlepod rush	PIP
<i>Juncus tenuis</i>	field rush, path rush, poverty rush, slender rush, slender yard rush, wiregrass	PIP
<i>Juncus trigonocarpus</i>	redpod rush	PIP
<i>Juncus validus</i> var. <i>fasciatus</i>	roundhead rush	PIP
<i>Juncus validus</i> var. <i>validus</i>	roundhead rush	PIP
<i>Cynoglossum</i> <i>virginianum</i>	blue houndstongue, wild comfrey	PIP
<i>Heliotropium indicum</i>	India heliotrope, Indian heliotrope	PIP
<i>Heliotropium</i> <i>procumbens</i>	four-spike heliotrope, fourspike heliotrope	PIP
<i>Lithospermum</i> <i>carolinense</i>	Carolina gromwell, Carolina puccoon, hairy puccoon	PIP
<i>Lithospermum</i> <i>tuberosum</i>	tuberous gromwell, tuberous stoneseed	PIP
<i>Myosotis macrosperma</i>	largeseed forget-me-not, southern forget me not	PIP
<i>Clinopodium brownei</i>	Browne's savory	PIP
<i>Hedeoma drummondii</i>	drummond falsepennyroyal, Drummond's false pennyroyal, Drummond's falsepennyroyal,	PIP

	Drummond's pennyroyal	
	false pennyroyal, falsepennyroyal, rough false pennyroyal, rough falsepennyroyal, rough pennyroyal	PIP
<i>Hedeoma hispida</i>		PIP
<i>Hyptis alata</i>	clustered bushmint	PIP
<i>Lycopus rubellus</i>	taperleaf bugleweed, taperleaf water horehound	PIP
<i>Lycopus virginicus</i>	Virginia bugleweed, virginia bugleweed, Virginia water horehound	PIP
<i>Monarda citriodora</i>	lemon beebalm, Lemon mint	PIP
	mintleaf beebalm, Oswego-tea, wild bergamot, wildbergamot beebalm, wildbergamot horsemint	PIP
<i>Monarda fistulosa</i>		PIP
<i>Monarda punctata</i> ssp. <i>punctata</i> var. <i>lasiodonta</i>	spotted beebalm	PIP
<i>Monarda punctata</i> ssp. <i>punctata</i> var. <i>punctata</i>	spotted beebalm	PIP
<i>Perilla frutescens</i>	beefsteak, beefsteak mint, beefsteakplant, Purple mint	PIP
<i>Physostegia digitalis</i>	finger false dragonhead	PIP
<i>Physostegia intermedia</i>	intermediate dragonhead, slender false dragonhead	U
<i>Physostegia longisepala</i>	longsepal false dragonhead	U
<i>Prunella vulgaris</i>	common selfheal, heal all, healall, selfheal	PIP
<i>Pycnanthemum albescens</i>	whiteleaf mountainmint, whiteleaf mountainmint	PIP
<i>Pycnanthemum tenuifolium</i>	narrowleaf mountainmint, narrowleaf mountainmint	PIP
<i>Salvia azurea</i>	azure blue sage, blue sage	PIP
<i>Salvia azurea</i> var. <i>grandiflora</i>	blue sage, pitcher sage, Pitchers sage	PIP
<i>Salvia coccinea</i>	blood sage	PIP
<i>Salvia lyrata</i>	lyreleaf sage	PIP
<i>Scutellaria cardiophylla</i>	gulf skullcap	PIP

<i>Scutellaria elliptica</i> var. <i>elliptica</i>	hairy skullcap	PIP
<i>Scutellaria integrifolia</i>	helmet flower	PIP
	eggleaf skullcap, heartleaf skullcap	PIP
<i>Scutellaria ovata</i>		PIP
<i>Scutellaria parvula</i>	small skullcap	PIP
<i>Stachys crenata</i>	mouse's-ear, mousesear	PIP
	slender betony, smooth hedge-nettle, smooth hedgenettle	PIP
<i>Stachys tenuifolia</i>		PIP
<i>Teucrium canadense</i> var. <i>canadense</i>	American germander, Canada germander	PIP
<i>Teucrium cubense</i>	small coastal germander	PIP
<i>Teucrium cubense</i> var. <i>laevigatum</i>	small coastal germander	PIP
<i>Trichostema dichotomum</i>	blue curls, forked bluecurls	PIP
<i>Trichostema setaceum</i>	narrowleaf bluecurls	PIP
<i>Callicarpa americana</i>	American beautyberry	PIP
	rose mock vervain, rose verbena	PIP
<i>Glandularia canadensis</i>		PIP
<i>Glandularia pulchella</i>	South American mock vervain	PIP
<i>Lantana camara</i>	lantana, largeleaf lantana	U
	West Indian shrubverbena, western lantana	PIP
<i>Lantana urticoides</i>		PIP
	frog fruit, lanceleaf fogfruit, lanceleaf frog fruit, northern fogfruit	PIP
<i>Phyla lanceolata</i>		PIP
	frog fruit, sawtooth fogfruit, turkey tangle, turkey tangle fogfruit	PIP
<i>Phyla nodiflora</i>		PIP
<i>Stylodon carneus</i>	Carolina false vervain	PIP
<i>Verbena bipinnatifida</i>	Dakota vervain	U
<i>Verbena brasiliensis</i>	Brazilian vervain	PIP
	slender verbena, Texas verbena, Texas vervain	PIP
<i>Verbena halei</i>		PIP
<i>Verbena rigida</i>	tuberous vervain	PIP
<i>Verbena scabra</i>	sandpaper vervain	PIP

<i>Vitex agnus-castus</i>	chaste tree, lilac chastetree	PIP
<i>Vitex negundo</i> var. <i>intermedia</i>	negundo chastetree	PIP
<i>Cinnamomum camphora</i>	camphor laurel, camphor tree, camphortree	PIP
<i>Persea borbonia</i>	redbay	PIP
<i>Persea palustris</i>	swamp bay	PIP
<i>Sassafras albidum</i>	sassafras	PIP
<i>Manfreda virginica</i>	false aloe	PIP
<i>Yucca aloifolia</i>	aloe yucca	PIP
<i>Yucca filamentosa</i>	Adam's needle	PIP
<i>Yucca louisianensis</i>	Gulf Coast yucca, Louisiana yucca	PIP
<i>Dioscorea villosa</i>	wild yam	PIP
<i>Alophia drummondii</i>	propeller flower	PIP
<i>Herbertia lahue</i>	prairienymph	PIP
<i>Hypoxis curtissii</i>	Curtis' star-grass	PIP
<i>Hypoxis hirsuta</i>	common goldstar, eastern yellow star-grass	PIP
<i>Hypoxis sessilis</i>	glossyseed yellow star-grass, glossyseed yellow stargrass	PIP
<i>Hypoxis wrightii</i>	Wright's star-grass	PIP
<i>Iris brevicaulis</i>	zigzag iris	PIP
<i>Iris pseudacorus</i>	paleyellow iris, yellow flag	PIP
<i>Iris virginica</i>	Virginia iris	PIP
<i>Sisyrinchium angustifolium</i>	blue eyegrass, blue-eyed grass, common blue eyedgrass, common blue-eyedgrass, narrowleaf blue-eyed grass	PIP
<i>Sisyrinchium atlanticum</i>	eastern blue-eyed grass, eastern blueeyed grass	PIP
<i>Sisyrinchium campestre</i>	prairie blue-eyed grass, prairie blueeyed grass	PIP
<i>Sisyrinchium langloisii</i>	roadside blue-eyed grass, roadside blueeyed grass	PIP

<i>Sisyrinchium rosulatum</i>	annual blue-eyed grass, annual blueeyed grass	PIP
<i>Sisyrinchium sagittiferum</i>	spearbract blue-eyed grass, spearbract blueeyed grass	PIP
<i>Aletris aurea</i>	golden colicroot	PIP
<i>Allium canadense</i> var. <i>canadense</i>	Canada garlic, meadow garlic	PIP
<i>Allium canadense</i> var. <i>mobile</i>	meadow garlic	PIP
<i>Crinum americanum</i>	seven sisters	PIP
<i>Hymenocallis lirisme</i>	spiderlily, spring spiderlily	PIP
<i>Lilium formosanum</i>	Formosa lily	PIP
<i>Lilium michauxii</i>	Carolina lily	PIP
<i>Narcissus papyraceus</i>	paperwhite narcissus	PIP
<i>Narcissus tazetta</i>	cream narcissus	PIP
<i>Nothoscordum bivalve</i>	crowpoison	PIP
<i>Ophiopogon jaburan</i>	lilyturf	PIP
<i>Polygonatum biflorum</i>	king Solomon's seal, King Solomon's-seal, smooth Solomon's seal, Solomon's seal	U
<i>Schoenolirion croceum</i>	yellow sunnybell	PIP
<i>Stenanthium gramineum</i>	eastern featherbells	PIP
<i>Triantha racemosa</i>	Coastal false Asphodel	PIP
<i>Trillium recurvatum</i>	bloody butcher, prairie trillium	PIP
<i>Trillium texanum</i>	Texas wakerobin	U
<i>Zephyranthes candida</i>	autumn zephyrlily	PIP
<i>Eichhornia crassipes</i>	common water hyacinth, common water-hyacinth, floating water hyacinth, floating waterhyacinth, jacinthe d'eau, jacinto de agua, lirio acuatico, mbekambekairanga, water hyacinth	PIP
<i>Pontederia cordata</i>	pickerelweed	PIP
<i>Smilax bona-nox</i>	saw greenbrier	PIP

<i>Smilax glauca</i>	cat greenbrier	PIP
<i>Smilax laurifolia</i>	laurel greenbrier	PIP
<i>Smilax pumila</i>	sarsparilla vine	PIP
<i>Smilax rotundifolia</i>	bullbriar, common catbriar, common greenbrier, greenbrier, horsebriar, roundleaf greenbrier, roundleaf greenbrier	PIP
<i>Smilax smallii</i>	lanceleaf greenbrier, small greenbrier	PIP
<i>Smilax tamnoides</i>	bristly greenbrier	PIP
<i>Smilax walteri</i>	coral greenbrier	PIP
<i>Linum medium var. texanum</i>	stiff yellow flax, sucker flax	PIP
<i>Linum rigidum</i>	orange flax, Stiff flax, stiffstem flax	U
<i>Linum striatum</i>	ridged yellow flax, rigid flax	PIP
<i>Lycopodiella alopecuroides</i>	foxtail clubmoss	PIP
<i>Lycopodiella appressa</i>	southern bog clubmoss	PIP
<i>Pseudolycopodiella caroliniana</i>	Slender clubmoss	PIP
<i>Asimina parviflora</i>	smallflower pawpaw	PIP
<i>Asimina triloba</i>	pawpaw	PIP
<i>Magnolia grandiflora</i>	southern magnolia	PIP
<i>Magnolia virginiana</i>	sweetbay	PIP
<i>Abutilon theophrasti</i>	butterprint, buttonweed, Indian mallow, velvetleaf, velvetleaf (or butterprint), velvetleaf Indian mallow	PIP
<i>Callirhoe papaver</i>	woodland poppymallow, woods poppymallow	U
<i>Hibiscus laevis</i>	halberdleaf rosemallow, scarlet rosemallow	PIP
<i>Hibiscus moscheutos ssp. lasiocarpus</i>	crimsoneyed rosemallow, marshmallow	PIP
<i>Malvastrum coromandelianum</i>	threelobe false mallow	PIP

<i>Malvastrum drummondii</i>	Texas mallow	PIP
<i>Modiola caroliniana</i>	Carolina bristlemallow, Carolina modiola	PIP
<i>Sida rhombifolia</i>	arrowleaf sida, cuban jute, Cuban-jute	PIP
<i>Sida spinosa</i>	prickly fanpetals, prickly sida	PIP
<i>Tilia americana var. caroliniana</i>	Carolina basswood	PIP
<i>Morella caroliniensis</i>	evergreen bayberry, southern bayberry	PIP
<i>Morella cerifera</i>	wax myrtle, waxmyrtle	PIP
<i>Ammannia coccinea</i>	purple ammannia, valley redstem	PIP
<i>Cuphea carthagenensis</i>	Colombian waxweed	PIP
<i>Cuphea glutinosa</i>	sticky waxweed	PIP
<i>Lagerstroemia indica</i>	crapemyrtle	PIP
<i>Lythrum alatum var. lanceolatum</i>	winged lythrum	PIP
<i>Rotala ramosior</i>	lowland rotala, lowland toothcup, rotala	PIP
<i>Rhexia lutea</i>	yellow meadowbeauty	PIP
<i>Rhexia mariana var. mariana</i>	Maryland meadowbeauty	PIP
<i>Rhexia petiolata</i>	fringed meadowbeauty	PIP
<i>Rhexia virginica</i>	common meadowbeauty, handsome Harry	PIP
<i>Gaura lindheimeri</i>	Lindheimer's beeblossom, white gaura	PIP
<i>Gaura longiflora</i>	longflower beeblossom	PIP
<i>Ludwigia alternifolia</i>	bushy seedbox, seedbox	PIP
<i>Ludwigia decurrens</i>	wingleaf primrose-willow, wingleaf waterprimrose	PIP
<i>Ludwigia glandulosa</i>	creeping seedbox, cylindricalfruit primrose-willow	PIP
<i>Ludwigia grandiflora</i>	Large flower Primrose-willow	PIP
<i>Ludwigia hirtella</i>	spindleroot	PIP

<i>Ludwigia leptocarpa</i>	anglestem primrose-willow, anglestem waterprimrose	PIP
<i>Ludwigia linearis</i>	narrowleaf primrose-willow, narrowleaf primrosewillow	PIP
<i>Ludwigia microcarpa</i>	smallfruit primrose-willow, smallfruit primrosewillow	PIP
<i>Ludwigia octovalvis</i> <i>ssp. octovalvis</i>	Mexican primrose-willow, Mexican primrosewillow	PIP
<i>Ludwigia palustris</i>	marsh primrose-willow, marsh seedbox	PIP
<i>Ludwigia peploides</i>	creeping waterprimrose, floating primrose, floating primrose-willow, floating primrosewillow	PIP
<i>Ludwigia pilosa</i>	hairy primrose-willow, hairy primrosewillow	PIP
<i>Ludwigia sphaerocarpa</i>	globefruit primrose-willow, globefruit primrosewillow	PIP
<i>Oenothera biennis</i>	common evening primrose, common evening-primrose, common eveningprimrose, evening primrose (common), hoary eveningprimrose, king's-cureall	PIP
<i>Oenothera laciniata</i>	cut-leaf evening-primrose, cut-leaved evening primrose, cutleaf evening-primrose, cutleaf eveningprimrose	PIP
<i>Oenothera linifolia</i>	threadleaf evening-primrose, threadleaf sundrop	PIP
<i>Oenothera mexicana</i>	Mexican evening-primrose, Mexican eveningprimrose	PIP
<i>Oenothera speciosa</i>	pinkladies, Showy evening primrose, showy eveningprimrose	PIP
<i>Potamogeton</i> <i>diversifolius</i>	waterthread, waterthread pondweed	PIP

<i>Potamogeton pulcher</i>	heartleaf pondweed, spotted pondweed	PIP
<i>Potamogeton pusillus</i>	baby pondweed, small pondweed	PIP
<i>Drosera brevifolia</i>	dwarf sundew	PIP
<i>Drosera capillaris</i>	pink sundew	PIP
<i>Sarracenia alata</i>	pitcherplant, yellow trumpets	PIP
<i>Brasenia schreberi</i>	schreber watershield, watershield	PIP
<i>Nuphar advena</i>	Broadleaf pond-lily	PIP
<i>Nymphaea odorata</i>	American waterlily, American white waterlily, white waterlily	U
<i>Botrychium biternatum</i>	sparselobe grapefern	PIP
<i>Botrychium dissectum</i>	cut-leaf grape fern, cutleaf grapefern	PIP
<i>Botrychium virginianum</i>	rattlesnake fern	PIP
<i>Ophioglossum</i> <i>crotalophoroides</i>	bulbous adderstongue	PIP
<i>Ophioglossum</i> <i>petiolatum</i>	longstem adderstongue	PIP
<i>Ophioglossum</i> <i>vulgatum</i>	Southern adder's-tongue, southern adderstongue	PIP
<i>Apteris aphylla</i>	nodding nixie	PIP
<i>Burmannia biflora</i>	northern bluethread	PIP
<i>Burmannia capitata</i>	southern bluethread	PIP
<i>Calopogon</i> <i>oklahomensis</i>	Oklahoma grasspink	PIP
<i>Calopogon</i> <i>tuberosus</i>	tuberous grasspink	PIP
<i>Cypripedium</i> <i>kentuckiense</i>	Kentucky lady's slipper, southern lady's slipper	U
<i>Hexalectris spicata</i>	crested coralroot, spiked crested coralroot, spiked crested-coralroot	PIP
<i>Isotria verticillata</i>	purple fiveleaf orchid	PIP
<i>Listera australis</i>	southern twayblade	PIP
<i>Platanthera ciliaris</i>	yellow fringed orchid	PIP
<i>Platanthera clavellata</i>	green woodland orchid, small green wood orchid	PIP
<i>Platanthera cristata</i>	crested yellow orchid	PIP

<i>Platanthera nivea</i>	snowy orchid	PIP
<i>Pogonia ophioglossoides</i>	snake-mouth orchid, snakemouth orchid	PIP
<i>Spiranthes cernua</i>	nodding ladies'-tresses, nodding ladiestresses, white nodding ladies'-tresses	PIP
<i>Spiranthes floridana</i>	Florida ladies'-tresses	PIP
<i>Spiranthes lacera</i> var. <i>gracilis</i>	northern slender ladies'-tresses, northern slender ladiestresses	PIP
<i>Spiranthes laciniata</i>	lancelip ladies'-tresses, lancelip ladiestresses	PIP
<i>Spiranthes longilabris</i>	giantspiral ladies'-tresses, giantspiral ladiestresses	PIP
<i>Spiranthes odorata</i>	marsh ladies'-tresses, marsh ladiestresses	PIP
<i>Spiranthes parksii</i>	navasota ladies' tresses, Navasota ladies'-tresses, Navasota ladiestresses	U
<i>Spiranthes praecox</i>	greenvein ladies'-tresses, greenvein ladiestresses	PIP
<i>Spiranthes tuberosa</i>	little ladies'-tresses, little ladiestresses	PIP
<i>Spiranthes vernalis</i>	spring ladies'-tresses, upland ladiestresses	PIP
<i>Tipularia discolor</i>	crippled crane-fly	PIP
<i>Juniperus virginiana</i> var. <i>virginiana</i>	eastern redcedar	PIP
<i>Pinus echinata</i>	arkansas pine, shortleaf pine, shortleaf yellow pine, shortstraw pine, southern yellow pine, yellow pine	PIP
<i>Pinus elliotii</i>	slash pine	PIP
<i>Pinus palustris</i>	longleaf pine	PIP
<i>Pinus taeda</i>	loblolly pine	PIP
<i>Taxodium distichum</i>	bald cypress, baldcypress	PIP
<i>Saururus cernuus</i>	lizard's tail, lizards tail	PIP
<i>Plantago aristata</i>	bottlebrush Indianwheat, largebracted plantain	PIP

<i>Plantago major</i>	broadleaf plantain, buckhorn plantain, common plantain, great plantain, rippleseed plantain	PIP
<i>Plantago virginica</i>	paleseed Indianwheat, Virginia plantain	PIP
<i>Polygala cruciata</i> var. <i>cruciata</i>	drumheads	PIP
<i>Polygala incarnata</i>	procession flower	PIP
<i>Polygala leptocaulis</i>	swamp milkwort	PIP
<i>Polygala mariana</i>	Maryland milkwort	PIP
<i>Polygala nana</i>	candyroot	PIP
<i>Polygala polygama</i>	bitter milkwort, racemed milkwort	PIP
<i>Polygala ramosa</i>	low pinebarren milkwort	PIP
<i>Brunnichia ovata</i>	American buckwheat vine, buckwheat vine, redvine	PIP
<i>Eriogonum longifolium</i> var. <i>longifolium</i>	longleaf buckwheat	PIP
<i>Polygonum caespitosum</i> var. <i>longisetum</i>	oriental ladythumb	PIP
<i>Polygonum densiflorum</i>	denseflower knotweed	PIP
<i>Polygonum hydropiperoides</i>	swamp smartweed	PIP
<i>Polygonum pennsylvanicum</i>	Pennsylvania knotweed, Pennsylvania smartweed, pinkweed, pinweed	PIP
<i>Polygonum punctatum</i>	dotted smartweed	PIP
<i>Polygonum virginianum</i>	jumpseed, Virginia smartweed	PIP
<i>Rumex chrysocarpus</i>	amamastla	PIP
<i>Rumex crispus</i>	Curley dock, curly dock, narrowleaf dock, sour dock, yellow dock	PIP
<i>Rumex hastatulus</i>	heartwing dock, heartwing sorrel	PIP
<i>Rumex pulcher</i>	fiddle dock	PIP
<i>Asplenium platyneuron</i>	ebony spleenwort	PIP
<i>Woodwardia areolata</i>	chainfern, netted chainfern	PIP

<i>Woodwardia virginica</i>	Virginia chainfern, virginia chainfern	PIP
<i>Pteridium aquilinum</i>	bracken, bracken fern, brackenfern, northern bracken fern, western brackenfern	PIP
<i>Pteridium aquilinum</i> var. <i>pseudocaudatum</i>	bracken, bracken fern, western brackenfern	PIP
<i>Athyrium filix-femina</i> ssp. <i>asplenioides</i>	asplenium ladyfern	PIP
<i>Dryopteris ludoviciana</i>	southern woodfern	PIP
<i>Onoclea sensibilis</i>	sensitive fern	PIP
<i>Polystichum acrostichoides</i>	Christmas fern	PIP
<i>Woodsia obtusa</i> ssp. <i>obtusata</i>	bluntlobe cliff fern	PIP
<i>Lygodium japonicum</i>	Japanese climbing fern	PIP
<i>Osmunda cinnamomea</i>	cinnamon fern	PIP
<i>Osmunda regalis</i> var. <i>spectabilis</i>	royal fern	PIP
<i>Pleopeltis polypodioides</i> ssp. <i>michauxiana</i>	resurrection fern, resurrection fern	PIP
<i>Adiantum capillus-veneris</i>	common maidenhair, common maidenhair fern, venus hairfern	PIP
<i>Thelypteris hispidula</i> var. <i>versicolor</i>	roughhairy maiden fern	PIP
<i>Thelypteris kunthii</i>	Kunth's maiden fern	PIP
<i>Ardisia crenata</i>	coral ardisia, hen's eyes	PIP
<i>Anagallis arvensis</i>	pimpernel, scarlet pimpernel	PIP
<i>Anagallis minima</i>	chaffweed	PIP
<i>Lysimachia radicans</i>	trailing yellow loosestrife	PIP
<i>Samolus ebracteatus</i> ssp. <i>alyssooides</i>	limewater brookweed	PIP
<i>Samolus valerandi</i> ssp. <i>parviflorus</i>	seaside brookweed, smallflower water pimpernel, water brookweed	PIP
<i>Podophyllum peltatum</i>	may apple, mayapple	PIP

<i>Cocculus carolinus</i>	Carolina coralbead, Carolina snailseed, redberry moonseed	PIP
<i>Anemone berlandieri</i>	tenpetal thimbleweed	PIP
<i>Clematis crispa</i>	curly virginsbower, swamp leather flower	PIP
<i>Clematis reticulata</i>	netleaf leather flower	PIP
<i>Clematis terniflora</i>	leatherleaf clematis, sweet autumn virginsbower, yam-leaved clematis	PIP
<i>Delphinium carolinianum</i>	Carolina larkspur	PIP
<i>Delphinium carolinianum</i> ssp. <i>vimineum</i>	Carolina larkspur	PIP
<i>Ranunculus hispidus</i> var. <i>nitidus</i>	bristly buttercup, swamp buttercup	PIP
<i>Ranunculus muricatus</i>	spinyfruit buttercup	PIP
<i>Ranunculus parviflorus</i>	smallflower buttercup, sticktight buttercup	PIP
<i>Ranunculus pusillus</i>	low spearwort, weak buttercup	PIP
<i>Ranunculus recurvatus</i>	blisterwort, littleleaf buttercup	PIP
<i>Ranunculus sardous</i>	hairy buttercup	PIP
<i>Thalictrum dasycarpum</i>	purple meadow-rue, purple meadowrue	PIP
<i>Elaeagnus pungens</i>	thorny elaeagnus, thorny olive	PIP
<i>Berchemia scandens</i>	Alabama supplejack	PIP
<i>Ceanothus americanus</i>	Jersey tea, jerseytea, New Jersey tea, new jersey tea	PIP
<i>Frangula caroliniana</i>	Carolina buckthorn	PIP
<i>Ampelopsis arborea</i>	peppervine	PIP
<i>Ampelopsis cordata</i>	heartleaf ampelopsis, heartleaf peppervine	PIP
<i>Parthenocissus quinquefolia</i>	American ivy, fiveleaved ivy, Virginia creeper, woodbine	PIP
<i>Vitis aestivalis</i>	summer grape	PIP

<i>Vitis aestivalis</i> var. <i>aestivalis</i>	summer grape	PIP
<i>Vitis cinerea</i>	graybark grape, sweet grape	PIP
<i>Vitis cinerea</i> var. <i>cinerea</i>	graybark grape	PIP
<i>Vitis mustangensis</i>	mustang grape	PIP
<i>Vitis palmata</i>	catbird grape	PIP
<i>Vitis rotundifolia</i>	muscadine, muscadine grape	PIP
<i>Penthorum sedoides</i>	ditch stonecrop, ditch-stonecrop, Virginia penthorum	PIP
<i>Itea virginica</i>	Virginia sweetspire	PIP
<i>Agrimonia incisa</i>	incised agrimony	U
<i>Agrimonia microcarpa</i>	smallfruit agrimony	PIP
<i>Agrimonia rostellata</i>	beaked agrimony, woodland groovebur	PIP
<i>Crataegus berberifolia</i>	barberry hawthorn	PIP
<i>Crataegus brachyacantha</i>	blueberry hawthorn	PIP
<i>Crataegus marshallii</i>	parsley hawthorn	PIP
<i>Crataegus opaca</i>	riverflat hawthorn, riverflat hawthorn	PIP
<i>Crataegus spathulata</i>	littlehip hawthorn	PIP
<i>Crataegus uniflora</i>	dwarf hawthorn, oneflower hawthorn	PIP
<i>Crataegus viridis</i>	Green hawthorn	PIP
<i>Duchesnea indica</i>	India mockstrawberry, Indian strawberry	PIP
<i>Photinia pyrifolia</i>	red chokeberry	PIP
<i>Prunus angustifolia</i>	Chickasaw plum	PIP
<i>Prunus caroliniana</i>	Carolina laurelcherry	PIP
<i>Prunus gracilis</i>	Oklahoma plum	PIP
<i>Prunus serotina</i>	black cherry, black chokecherry	PIP
<i>Prunus serotina</i> var. <i>serotina</i>	black cherry	PIP
<i>Prunus umbellata</i> var. <i>umbellata</i>	hog plum	PIP

<i>Pyracantha koidzumii</i>	Formosa firethorn	PIP
<i>Pyrus calleryana</i>	Callery pear	PIP
<i>Rosa bracteata</i>	Macartney rose	PIP
<i>Rubus apogaeus</i>	falling dewberry	PIP
<i>Rubus argutus</i>	prickly Florida blackberry, sawtooth blackberry	PIP
<i>Rubus trivialis</i>	southern dewberry	PIP
<i>Spiraea cantoniensis</i>	Reeves' meadowsweet	PIP
<i>Lepuropetalon spathulatum</i>	petiteplant	PIP
<i>Cephalanthus occidentalis</i>	buttonbush, common buttonbush	PIP
<i>Diodia teres</i> var. <i>teres</i>	poor joe, poor-joe, poorjoe	PIP
<i>Diodia virginiana</i>	Virginia buttonweed	PIP
<i>Galium aparine</i>	bedstraw, catchweed bedstraw, cleavers, cleaverwort, goose grass, scarthgrass, sticky-willy, stickywilly, white hedge	PIP
<i>Galium circaezans</i>	licorice bedstraw, wild licorice, woods bedstraw	PIP
<i>Galium hispidulum</i>	coastal bedstraw	PIP
<i>Galium obtusum</i>	blunt-leaf bedstraw, bluntleaf bedstraw, bristly bedstraw	PIP
<i>Galium pilosum</i>	hairy bedstraw	PIP
<i>Galium tinctorium</i>	dye bedstraw, stiff marsh bedstraw	PIP
<i>Galium triflorum</i>	fragrant bedstraw, sweet bedstraw, sweetscented bedstraw	PIP
<i>Galium uniflorum</i>	oneflower bedstraw	PIP
<i>Gardenia angusta</i>	cape jasmine	PIP
<i>Houstonia micrantha</i>	southern bluet	PIP
<i>Houstonia pusilla</i>	tiny bluet	PIP
<i>Mitchella repens</i>	partridgeberry	PIP
<i>Mitracarpus hirtus</i>	tropical girdlepod	PIP
<i>Oldenlandia boscoii</i>	Bosc's mille grains	PIP
<i>Oldenlandia uniflora</i>	clustered mille grains,	PIP

	oneflower oldenlandia	
<i>Pentodon pentandrus</i>	Hale's pentodon	PIP
<i>Richardia brasiliensis</i>	tropical Mexican clover	PIP
<i>Richardia scabra</i>	rough Mexican clover	PIP
<i>Sherardia arvensis</i>	blue field-madder, blue fieldmadder, field madder	PIP
<i>Spermacoce glabra</i>	buttonplant, smooth false buttonweed	PIP
<i>Stenaria nigricans</i> var. <i>nigricans</i>	Diamond flowers	PIP
<i>Populus deltoides</i>	common cottonwood, cottonwood, eastern cottonwood, plains cottonwood	PIP
<i>Salix nigra</i>	black willow	PIP
<i>Phoradendron leucarpum</i>	oak mistletoe	PIP
<i>Acer barbatum</i>	florida maple, hammock maple, southern sugar maple	PIP
<i>Acer negundo</i>	ashleaf maple, box elder, boxelder, boxelder maple, california boxelder, manitoba maple, western boxelder	PIP
<i>Acer negundo</i> var. <i>negundo</i>	ash-leaf maple, boxelder	PIP
<i>Acer rubrum</i> var. <i>drummondii</i>	drummond maple, Drummond's maple	PIP
<i>Acer rubrum</i> var. <i>rubrum</i>	red maple	PIP
<i>Rhus aromatica</i> var. <i>aromatica</i>	a fragrant sumac, fragrant sumac	PIP
<i>Rhus copallinum</i>	flameleaf sumac	PIP
<i>Rhus copallinum</i> var. <i>latifolia</i>	winged sumac	PIP
<i>Rhus glabra</i>	smooth sumac	PIP
<i>Toxicodendron pubescens</i>	Atlantic poison oak, poison oak	PIP

<i>Toxicodendron radicans</i>	eastern poison ivy, poison ivy, poisonivy	PIP
<i>Toxicodendron vernix</i>	poison sumac	PIP
<i>Aesculus pavia</i>	red buckeye	PIP
<i>Melia azedarach</i>	chinaberry, Chinaberry tree, Chinaberrytree, Indian lilac, lelah, paraiso, pride of India, white cedar	PIP
<i>Poncirus trifoliata</i>	hardy orange	PIP
<i>Ptelea trifoliata</i>	common hoptree, hoptree	PIP
<i>Zanthoxylum clava-herculis</i>	Hercules' club, hercules-club, hercules-club pricklyash	PIP
<i>Dicliptera brachiata</i>	branched foldwing	PIP
<i>Hygrophila lacustris</i>	gulf swampweed	PIP
<i>Justicia ovata</i> var. <i>lanceolata</i>	loose justica, looseflower water-willow	PIP
<i>Ruellia caroliniensis</i>	Carolina wild petunia	PIP
<i>Ruellia humilis</i>	fringeleaf wild petunia, low ruellia, wild petunia	PIP
<i>Yeatesia viridiflora</i>	yellow bractspike	PIP
<i>Bignonia capreolata</i>	cross vine, crossvine	PIP
<i>Campsis radicans</i>	common trumpetcreeper, cow-itch, trumpet creeper	PIP
<i>Catalpa bignonioides</i>	southern catalpa	PIP
<i>Catalpa speciosa</i>	northern catalpa	PIP
<i>Polypremum procumbens</i>	juniper leaf	PIP
<i>Pinguicula pumila</i>	small butterwort	PIP
<i>Utricularia gibba</i>	conespur bladderpod, humped bladderwort	PIP
<i>Utricularia inflata</i>	swollen bladderwort	PIP
<i>Utricularia juncea</i>	southern bladderwort	PIP
<i>Utricularia radiata</i>	little floating bladderwort	PIP
<i>Utricularia subulata</i>	zigzag bladderwort	PIP
<i>Chionanthus virginicus</i>	fringetree, white fringetree	PIP
<i>Forestiera acuminata</i>	eastern swampprivet, swamp privet, Texas	PIP

	forestiera	
<i>Forestiera ligustrina</i>	privet, upland swampprivet	PIP
<i>Fraxinus americana</i>	white ash	PIP
<i>Fraxinus caroliniana</i>	Carolina ash	PIP
<i>Fraxinus pennsylvanica</i>	green ash	PIP
<i>Ligustrum lucidum</i>	glossy privet, tree privet	PIP
<i>Ligustrum sinense</i>	Chinese privet, common chinese privet	PIP
<i>Epifagus virginiana</i>	beechdrops	PIP
<i>Agalinis fasciculata</i>	beach false foxglove	PIP
<i>Agalinis filifolia</i>	Seminole false foxglove	PIP
<i>Agalinis heterophylla</i>	prairie false foxglove, prairie false-foxglove	PIP
<i>Agalinis oligophylla</i>	ridgestem false foxglove	PIP
<i>Agalinis purpurea</i>	purple false foxglove	PIP
<i>Agalinis viridis</i>	green false foxglove	PIP
<i>Aureolaria flava</i> var. <i>flava</i>	smooth yellow false foxglove	PIP
<i>Aureolaria flava</i> var. <i>macrantha</i>	smooth yellow false foxglove	PIP
<i>Aureolaria grandiflora</i>	largeflower yellow false foxglove	PIP
<i>Aureolaria pectinata</i>	combleaf yellow false foxglove	PIP
<i>Bacopa caroliniana</i>	blue waterhyssop	PIP
<i>Bacopa monnieri</i>	coastal waterhyssop, herb of grace, herb-of-grace	PIP
<i>Buchnera americana</i>	American bluehearts, bupleurum	PIP
<i>Castilleja indivisa</i>	entireleaf Indian paintbrush, Texas paintbrush	U
<i>Gratiola brevifolia</i>	sticky hedgehyssop	PIP
<i>Gratiola neglecta</i>	clammy hedge-hyssop, clammy hedgehyssop, drug hedgehyssop, hedge hyssop, neglected hedgehyssop	PIP
<i>Gratiola pilosa</i>	shaggy hedgehyssop	PIP
<i>Gratiola virginiana</i>	roundfruit hedgehyssop,	PIP

	Virginia hedgehyssop	
<i>Leucospora multifida</i>	narrowleaf paleseed	PIP
<i>Lindernia crustacea</i>	Malaysian false pimpernel	PIP
<i>Lindernia dubia</i> var. <i>anagallidea</i>	false pimpernel, falsepimpernel, yellow-seed false pimpernel, yellowseed false pimpernel	PIP
<i>Lindernia dubia</i> var. <i>dubia</i>	yellow-seed false pimpernel, yellowseed false pimpernel	PIP
<i>Mazus pumilus</i>	Japanese mazus	PIP
<i>Mecardonia acuminata</i>	axilflower	PIP
<i>Mecardonia procumbens</i>	baby jump-up, baby jumpup	PIP
<i>Micranthemum umbrosum</i>	shade mudflower	PIP
<i>Mimulus alatus</i>	sharpwing monkeyflower	PIP
<i>Nuttallanthus texanus</i>	Texas toadflax, Texas-toadflax	PIP
<i>Parentucellia viscosa</i>	yellow glandweed	PIP
<i>Pedicularis canadensis</i>	Canadian lousewort, early lousewort	PIP
<i>Penstemon laxiflorus</i>	nodding beardtongue	PIP
<i>Scoparia dulcis</i>	licorice weed	PIP
<i>Verbascum thapsus</i>	big taper, common mullein, flannel mullein, flannel plant, great mullein, mullein, velvet dock, velvet plant, woolly mullein	PIP
<i>Veronica arvensis</i>	common speedwell, corn speedwell, rock speedwell, wall speedwell	PIP
<i>Veronica peregrina</i>	neckweed, purslane speedwell	PIP
<i>Veronica peregrina</i> ssp. <i>xalapensis</i>	hairy purslane speedwell, neckweed	PIP
<i>Veronica polita</i>	gray field speedwell	PIP
<i>Selaginella apoda</i>	meadow spike-moss, meadow spikemoss	PIP
<i>Dichondra carolinensis</i>	Carolina ponysfoot, grass ponyfoot	PIP

<i>Evolvulus sericeus</i>	silky evolvulus, silver dwarf morning-glory, silver dwarf morningglory, silver dwarf-morning-glory	PIP
<i>Ipomoea coccinea</i>	Mexican morningglory, red morningglory, redstar, scarlet morningglory, scarlet morningglory, starglory, wooly tidestromia	PIP
<i>Ipomoea cordatotriloba</i> var. <i>cordatotriloba</i>	cotton morningglory, sharpod morningglory, tievine	PIP
<i>Ipomoea hederacea</i>	entireleaf morningglory, ivy-leaf mornin-glory, ivyleaf morning-glory, ivyleaf morningglory, ivyleaf morningglory, Mexican morningglory	PIP
<i>Ipomoea lacunosa</i>	pitted morningglory, white morningglory, whitestar	PIP
<i>Ipomoea pandurata</i>	bigroot morningglory, bigroot morningglory, man of the earth, man-of-the-earth	PIP
<i>Jacquemontia tamnifolia</i>	clustervine, hairy clustervine	PIP
<i>Stylisma pickeringii</i> var. <i>pattersonii</i>	Patterson's dawnflower	PIP
<i>Cuscuta compacta</i>	compact dodder	PIP
<i>Cuscuta gronovii</i>	scaldweed	PIP
<i>Hydrolea ovata</i>	hairy hydrolea, ovate false fiddleleaf	PIP
<i>Hydrolea uniflora</i>	oneflower false fiddleleaf, oneflower hydrolea	PIP
<i>Nemophila aphylla</i>	smallflower baby blue eyes	PIP
<i>Phacelia strictiflora</i>	prairie phacelia	PIP
<i>Nymphoides aquatica</i>	big floatingheart	PIP
<i>Phlox drummondii</i>	annual phlox, drummond phlox	U

<i>Phlox nivalis</i> ssp. <i>texensis</i>	Texan phlox, texas trailing phlox	PIP
<i>Phlox pilosa</i>	downy phlox	PIP
<i>Datura wrightii</i>	sacred datura, sacred thorn-apple, sacred thornapple	PIP
<i>Physalis angulata</i>	cut-leaf ground-cherry, cutleaf groundcherry, lanceleaf groundcherry	PIP
<i>Physalis cinerascens</i> var. <i>cinerascens</i>	smallflower groundcherry	PIP
<i>Physalis cordata</i>	heartleaf groundcherry	PIP
<i>Physalis heterophylla</i>	clammy ground-cherry, clammy groundcherry	PIP
<i>Physalis heterophylla</i> var. <i>heterophylla</i>	clammy groundcherry	PIP
<i>Physalis pubescens</i>	groundcherry, husk tomato, husk-tomato	PIP
<i>Physalis pumila</i>	dwarf groundcherry	PIP
<i>Solanum capsicastrum</i>	false Jerusalem cherry	PIP
<i>Solanum carolinense</i>	apple of Sodom, bull nettle, Carolina horsenettle, devil's tomato, horsenettle, sand briar	PIP
<i>Solanum carolinense</i> var. <i>carolinense</i>	apple of Sodom, bull nettle, Carolina horse-nettle, Carolina horsenettle, devil's tomato, horsenettle, sand briar	PIP
<i>Solanum elaeagnifolium</i>	silverleaf nightshade, tomato weed, trompillo, white horsenettle, white nightshade	PIP
<i>Solanum ptychanthum</i>	black nightshade, eastern black nightshade, nightshade, West Indian nightshade	PIP
<i>Hypericum crux-andreae</i>	atlantic st. peter's-wort, St. Peterswort	PIP
<i>Hypericum densiflorum</i>	bushy St. Johnswort, dense st. johnswort	PIP

<i>Hypericum drummondii</i>	Drummond St. Johnswort, nits and lice	PIP
<i>Hypericum galioides</i>	bedstraw St. Johnswort	PIP
<i>Hypericum gentianoides</i>	orangegrass, pinweed st. johnswort	PIP
<i>Hypericum gymnanthum</i>	claspingleaf St. Johnswort	PIP
<i>Hypericum hypericoides</i>	St. Andrew's cross, St. Andrews cross	PIP
<i>Hypericum lobocarpum</i>	fivelobe St. Johnswort	PIP
<i>Hypericum mutilum</i>	dwarf St. Johnswort	PIP
<i>Triadenum tubulosum</i>	lesser marsh St. Johnswort	PIP
<i>Triadenum walteri</i>	greater marsh St. Johnswort	PIP
<i>Sparganium americanum</i>	American bur-reed, American burreed	PIP
<i>Typha latifolia</i>	broadleaf cattail, cattail, cattail (common), common cattail	PIP
<i>Maclura pomifera</i>	bois d'arc, osage orange, osage-orange, osageorange	PIP
<i>Morus alba</i>	mulberry, white mulberry	PIP
<i>Morus rubra</i>	red mulberry	PIP
<i>Morus rubra var. rubra</i>	red mulberry	PIP
<i>Celtis laevigata</i>	sugar berry, sugar hackberry, sugarberry	PIP
<i>Celtis tenuifolia</i>	dwarf hackberry, georgia hackberry	PIP
<i>Planera aquatica</i>	planertree, water elm, water- elm	PIP
<i>Ulmus alata</i>	winged elm	PIP
<i>Ulmus americana</i>	American elm	PIP
<i>Boehmeria cylindrica</i>	small-spike false nettle, smallspike false nettle, smallspike falsenettle	PIP
<i>Pilea pumila</i>	Canada clearweed, Canadian clearweed	PIP
<i>Urtica chamaedryoides</i>	heartleaf nettle, slim stingingnettle	PIP
<i>Helianthemum</i>	Carolina frostweed	PIP

<i>carolinianum</i>		
<i>Helianthemum georgianum</i>	Georgia frostweed	PIP
<i>Lechea minor</i>	thymeleaf pinweed	PIP
<i>Lechea mucronata</i>	hairy pinweed	PIP
<i>Lechea tenuifolia</i>	narrowleaf pinweed	PIP
<i>Cayaponia quinqueloba</i>	fivelobe cucumber	PIP
<i>Melothria pendula</i>	drooping melonnettle, Guadeloupe cucumber	PIP
<i>Passiflora incarnata</i>	purple passionflower	PIP
<i>Passiflora lutea</i>	passionflower, yellow passionflower	PIP
<i>Viola lanceolata</i>	bog white violet, lanceleaf violet	PIP
<i>Viola lanceolata ssp. vittata</i>	bog white violet	PIP
<i>Viola palmata</i>	early blue violet, trilobed violet	PIP
<i>Viola pedata</i>	birdfoot violet	PIP
<i>Viola primulifolia</i>	Primrose-leaf violet	PIP
<i>Viola sagittata</i>	arrow-leaved violet, arrowleaf violet	PIP
<i>Viola sororia</i>	common blue violet, hooded blue violet	PIP
<i>Viola sororia var. missouriensis</i>	Missouri violet	PIP
<i>Viola villosa</i>	Carolina violet, violet	PIP

¹Park Status refers to the current status of the organism in the park, where PIP=Present in Park, PP=Probably Present, E=Encroaching, U=Unconfirmed, N/A=Not Available, H=Historic.

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National Park Service
U.S. Department of the Interior



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