

Coastal prairie is a native grassland found along the coast of Texas and Louisiana. Over nine million acres of prairie once existed as a grassland paradise for Native Americans and early settlers. Today less than 1% remains as a refuge for rare and endangered birds, mammals, reptiles, insects and plants. Is "Paradise Lost?" Private groups, conservation organizations, and government agencies are working together to protect and restore this "critically imperiled" ecosystem. They need your help and support if this effort is to succeed.

History

Historical range of

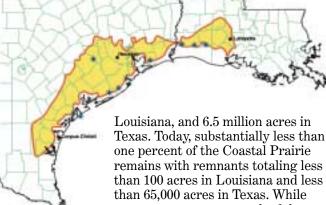
represent national

wildlife refuges.

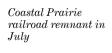
Coastal Prairie. Stars

The Coastal Prairie is located along the western gulf coast of the United States, in southwest Louisiana and southeast Texas, just inland from the coastal marsh (see map). This Coastal Prairie is a tallgrass prairie similar in many ways to the tallgrass prairie of the midwestern United States. It is estimated that, in pre-settlement times, there were nine million acres

of Coastal Prairie, with 2.5 million acres in



much of the former prairie has been converted to pasture for cattle grazing, the majority has been altered for growing rice, sugarcane, forage, and



grain crops. In Louisiana, most of the prairie's few remaining remnants are found on narrow strips of land along railroad tracks. A larger amount remains in Texas because it was used for cattle production and never plowed. Many species, however, have been lost through overgrazing.

The "Cajun Prairie" of Louisiana

The portion of Coastal Prairie found in southwest Louisiana is often called the "Cajun Prairie" because it was settled in the early nineteenth century by exiled Acadian settlers. As of 1999, less than 100 acres remain of the 2.5 million acres that once dominated this area, making it one of our most endangered ecosystems. Most of the few remaining remnants of prairie in Louisiana are found on narrow strips of land along railroad tracks. Despite the small size of these remnants, most contain a high diversity of native tallgrass prairie flora.

Cajun prairie along railroad right-of-way in May



What makes Coastal Prairie a prairie?

The Coastal Prairie can be likened to the central and northern "tallgrass prairie." Many wildflowers common to the Midwestern prairies such as button snakeroot, compass plant, Kansas gayfeather, and black-eyed susan are also found in Coastal Prairie. In those remnants that still exist in Louisiana, switchgrass, little bluestem, big bluestem, and Indiangrass dominate just as they do in the Midwest. Because of the region's high rainfall, and the fact that Coastal Prairie gradually turns into coastal marsh in Louisiana. switchgrass is more common than in Midwestern prairies. In contrast, remnants of Coastal Prairie in Texas are dominated by little bluestem, brown-seed paspalum, and Indiangrass. Common wildflowers found here are the prairie coneflower, Texas coneflower, white heath aster and yellow-puff.



Attwater's prairie chicken

Coastal Prairie differs from that found in the Midwest because plant species like sweet golden rod, red milkweed, and the grasses slender bluestem and brown-seed paspalum are found here. Coastal Prairie also provides habitat for the Attwater's prairie chicken, a relative of the extinct heath hen once found in the Midwest.



Rejuvenating prairie with winter fire

Factors that contribute to the establishment and maintenance of prairie are soil type, fire, rainfall, and grazing. Drought, fire, and competition from adapted plant species combine to prevent the establishment of woody plants and maintain a grass-dominated ecosystem.



Grasshopper foraging on prairie grass

Many prairie species depend on fire for seed production because it removes accumulated plant litter and satisfies seed dormancy needs. Drought occurs in areas of low rainfall and heavy clay soils hold water making it unavailable to plants. Plants can also experience droughtlike stress as a result of root restriction caused by a 8-12" deep hard pan layer in some soils that roots cannot penetrate. Grazing (historically bison and elk and now cattle) affects prairie vegetation in various ways. While it helps seeds to germinate by removing their seed

Grasses and grasslike plants of the Coastal Prairie











































coat during digestion, it also stresses grazed plants and creates disturbances that allow other plants to establish. Smaller grazers such as grasshoppers and other plant-eating insects often concentrate on a single plant species, leaving its neighbors untouched, therefore giving them an advantage over their competitors.



Butterfly weed and blackeyed Susan in flower in May and June.

Natural prairie abounds with longlived perennials which form a dense "sod" or mat of intertwined roots. Disturbances to this dense mass are rapidly filled in by growth from surrounding plants. With the exception of partridge pea, falsefoxgloves and a few others, annuals are rare in undisturbed prairie sod.

Plants

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Coastal prairie vegetation consists mostly of grasses overlain by a diverse variety of wildflowers and other plants. Its wildflowers are often found in patches creating a "flower garden" in the green sea of grass. Nearly 1,000 plant species have been identified in Coastal Prairie and almost all are perennials with underground structures (not all these structures are roots) like rhizomes. tubers, or crowns. These underground structures have a variety of functions. one of which is to ensure survival after fire. The underground portion of Coastal Prairie plants may be up to three times the size of the aboveground part.

Coastal Prairie flowers bloom in a vivid range of colors from the green of the green flowered milkweed and nose burn; to the white of flowering spurge and button snakeroot; to the yellow of partridge pea and compass plant; to the blue of blue waterleaf and Sampson's snakeroot; to the pink of false dragonhead and sensitive



briar: to the purple of gayfeathers and ironweed: and to the red of the red milkweed and winecup. Coastal Prairie wildflowers are a diverse group with many species belonging to the sunflower, legume, and mint families. Native Americans and European settlers on the Coastal Prairie used plants for foods, spices, dyes, textiles, and medicines.

Kansas gayfeather in mass during August

Some of the more spectacular plants in Coastal Prairie include: blazing stars (with up to three foot spikes of purple flowers); compass plants (with leaves pointing east and west); button snakeroot (an important nectar source for many insects); sweet golden rod (with a liquorice odor and that can be used to make a tea); false indigos (yellow or white flowered species, whose flowers were used by early settlers to dye Easter eggs); and butterfly weed (with bright orange flowers favored by butterflies).

Wildflowers of the Coastal Prairie











 $false\ garlic$

 $drummond\ rain\ lily$







swamp lily spring beauty

 $water\ hemlock$

 $American\ snowball$

 $whorled\ milkweed$



















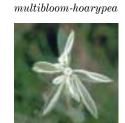






 $cluster\ bushmint$





snow on the prairie

10

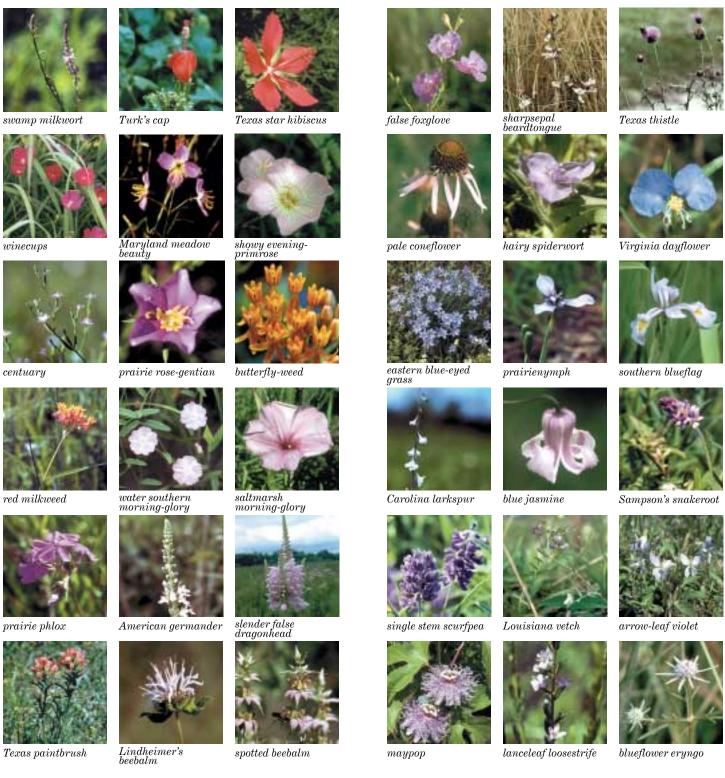
















white ibis



red-tailed hawks



 $preying\ mant is$



hummingbird on ashy sunflower

Animals

Coastal Prairie, and its adjacent marsh habitat, provided immense spaces for waterfowl and thousands of other forms of wildlife. Even in its altered state, Coastal Prairie routinely hosts more red-tailed hawk, northern harrier, white ibis, and white-faced ibis than any other region in the United States. Waterfowl. sandpipers, and other shorebirds are abundant during the fall, winter, and spring months, paralleling and often surpassing other regions with longstanding traditions as crucial stopover areas for these species. Many rare European species such as northern wheatear, black-tailed godwit, curlew sandpiper, and ruff have also been observed routinely.

Prairie flowers and insects naturally go together. Native insects need native plants as food, and many prairie plants provide plentiful and continuous supplies of nectar. Prairie also provides habitat with relatively little insecticide residue. The result is unique insect diversity including butterflies, dragonflies, and numerous kinds of bees, wasps, ants, grasshoppers, beetles, and preying mantis. This plethora of insects provides a food source for many animals enhancing the habitat value of Coastal Prairie.

The most conspicuous prairie insects are the butterflies and skippers with more than 100 species found in Louisiana's prairie alone. The gulf fritillary, also known as the passionvine butterfly, is the most common butterfly species found in Coastal Prairie. Monarchs, whose larvae depend on the many milkweeds found in Coastal Prairie, are frequent visitors. More than 100 different species of dragonfly eat mosquitoes and other insects as they dart and bob over the prairie. The prairie forceptail is a unique dragonfly in the Cajun Prairie as it is seen nowhere else.

What's at risk?

Wildflowers and grasses once covered the Coastal Prairie region, along with birds, butterflies, and other insects. In earlier times it was home to herds of bison and pronghorn antelope, and red wolves roamed among the riverine forests that crisscrossed the area. Today, the bison, antelope, and red wolves have disappeared, and this ecosystem is listed as "critically imperiled" by major conservation organizations.

No one knows how many Coastal Prairie species have followed the prairie vole and the Louisiana Indian paintbrush to extinction, but it is certain that many other species are now quite rare. The black-lace cactus and Texas prairie dawn-flower are the

Milkweed Butterflies

The milkweed butterflies are a









family of mostly tropical butterflies that includes the monarch and the queen. Monarch butterflies cannot withstand freezing temperatures, so they migrate south for winter, flying several thousand miles. The larvae of these North American species feed on milkweeds, incorporating toxic substances into their bodies and making them distasteful to predators. Twelve species of milkweed occur in Coastal Prairie, making the area an important element in the migration flyway of

Illustrated at left are the stages of metamorphosis of a monarch butterfly:

- 1. the egg,
- 2. the caterpillar,
- 3. the pupa or chrysalis, and
- 4. the adult butterfly.

Butterflies of the Coastal Prairie



 $black\ swallowtail$



 $pipevine\ swallowtail$



 $gorgone\ crescent$



 $tiger\ swallow tail,\\ male$



zebra longwing



 $tiger\ swallow tail,$ female



 $red\ admiral$



buckeye butterfly



 $cloudless\ sulphur$



gulf fritillary, female



 $zebra\ swallowtail$



hackberry



spring azure



pearl crescent



 $spicebush\ swallowtail$



gulf fritillary, male



wood nymph



queen



 $varigated\ fritillary$



goatweed



 $question\ mark$



 $gray\ hairstreak$



viceroy



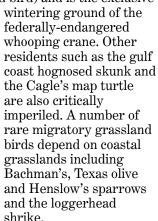
red spotted purple



 $wild\ coco$

only Coastal Prairie plant species on the U.S. Fish and Wildlife Service's endangered species list. However, more than a dozen plant species are listed as imperiled or critically imperiled, including the wild coco, Texas windmill grass, coastal gayfeather, and Correll's false dragonhead. Another 15 plant species are listed as rare to very rare including Texas coneflower, fringed sneezeweed, Silveus dropseed, southwestern bedstraw, and lemon beebalm.

In addition to plants, the Coastal Prairie is home to the federallyendangered Attwater's prairie chicken (North America's most endangered bird) and is the exclusive





American bison

A.

Henslow's sparrow

Threats

Development poses the greatest risk to what remains of Coastal Prairie. Most remnants are privately owned with only a small percentage preserved on government land. The largest and most pristine remnants in Texas are hay meadows, and they are in danger of development or conversion to other kinds of agriculture. Remnants along railroads make up much of what remains in Louisiana and are currently being destroyed when adjacent highways are widened or railroad beds are graded or sprayed with pesticides.



whooping crane

The suppression of fire allows remnants to become overgrown with native shrubs like eastern baccharis and wax myrtle. Another able invader, and a primary threat to Coastal Prairie, is the Chinese tallow tree. Chinese tallow and other exotic. plants invade Coastal Prairie, often becoming the focus of land managers. While fire is an important tool in the control of these exotic plants, herbicides are also used. The impact of herbicide used for control of prairie invaders and weeds on adjacent croplands has not yet been fully explored. There are other exotic plants that are fire and herbicide tolerant and while they have not yet arrived in Coastal Prairie may



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 $Chinese\ tallow$

present even greater problems in the future.

The current absence of big bluestem, Indiangrass, and some wildflowers in many Texas prairies may be due to overgrazing

by cattle. Palatable native grasses such as big bluestem, Indiangrass, and eastern gamagrass cannot tolerate the close grazing of cattle but are adapted to the occasional, fast moving, tip nipping of bison. Foreign species, such as vasevgrass, from South America, and johnsongrass, from the Mediterranean, are adapted to cattle grazing and flourish in overgrazed prairie. While having and rotational grazing are important tools of prairie managment, overgrazing can decrease diversity and impact the effectiveness of fire.

Dragonflies of the Coastal Prairie



 $calico\ pennant$



common green darner, male



 $black\ saddlebags$



blue dasher, female



 $rose ate\ skimmer;\\ male$



common whitetail, female



golden winged skimmer



widow skimmer; female



prairie forceptail, female



 $painted\ skimmer$



eastern pondhawk, female



familiar bluet



prairie forceptail, male



 $blue\ footed\ dancer$



 $widow\ skimmer;\ male$



golden winged skimmer



Halloween pennant, female



 $ebony\ jewelwing$



 $common\ white tail,\\ male$



common green darner, male



 $Needham's\ skimmer$



 $\begin{array}{c} varigated\\ meadowhawk \end{array}$



 $Rambur's {\it forktail}$



 $citrine\ forktail,\ male$

Restoration

Even if every acre of Coastal Prairie now in existence were preserved for future generations, we would continue to lose species to extinction. Plants and animals need large areas of habitat



Sign at eleven-yearold restoration site.

for survival, so if future generations are to enjoy the biodiversity found in Coastal Prairie, more area must be restored. Enthusiasm for restoration of Coastal Prairie is growing thanks to the efforts of pioneers like Drs. Charles Allen and Malcolm Vidrine who in 1988 succeeded in

restoring a prairie in Eunice,
Louisiana. A number of private groups
and conservation organizations
exchange information, provide
education, work to preserve remnants,
and assist restoration efforts while
government agencies assist private
land owners with incentive programs.
Scientists at the U.S. Geological
Survey's National Wetlands Research
Center are conducting experiments
relevant to prairie restoration and
management and are developing
methods to disseminate this information.



Hand held seed collection.

The U.S. Fish and Wildlife Service lists restoration of Coastal Prairie as one of its top priorities in the gulf coast area. National wildlife refuges including Anahuac, Aransas, Attwater, Brazoria, Cameron Prairie, Lacassine and Sabine are restoring and managing prairie on federal lands. Lacassine NWR in Louisiana has embarked on several Coastal Prairie restorations including 327 acres called the Duralde Prairie. Brazoria National Wildlife Refuge in Texas has undertaken to restore more than 5,000 acres of overgrazed prairie by limiting cattle grazing, conducting

prescribed burns, haying, and chemically controlling invasive plants.

The Coastal Prairie Conservation Initiative is a partnership between the U.S. Fish and Wildlife Service, the U.S. Department of Agriculture's Natural Resources Conservation Service, local soil and water conservation districts, and private landowners along the middle and





Top: USGS restoration experiments. Below: mechanized seed collection.

upper gulf coast region of Texas. The goals of this initiative are to conserve and restore the Coastal Prairie ecosystem, reintroduce captive-bred Attwater's prairie chickens on private lands, and provide private landowners with incentives directed at Coastal Prairie conservation.

Restoration methods vary between geographical areas and individual restorationists, and

success varies from year to year. Planting a restoration involves:

- site preparation by herbicide, solarization, and/or tillage;
- planting by haying, seeding, hydromulching, sodding, plugging, and/or reintroduction; and
- 3. management by mowing, irrigation, grazing, and/or burning.

Fall and winter are generally the best times for planting. Seeds can be purchased commercially but are sometimes hard to find. If seeds are collected from wild populations it is best to collect from plants in the vicinity of your restoration. These

Other Species of the Coastal Prairie



 $cloudless\ sulphur$



ambush bug



dick cissels



fence lizard



flower beetle



grasshopper and Turks cap



 $giant\ swallowtail$



 $gulf\,coast\,toad$



 $grass\ spider$



 $black\ swallow tail$



 $eastern\ hognosed\\ snake$



halictid bee and wild petunia



 $loggerhead\ shrike$



buckeye butterfly



 $green\ tree\ frog$



 $crab\ spider$



walking stick on blazing star



 $tiger\ swallow tail$



gulffritillary



lynx spider

30



halictid bee and partridge pea



 $Potter's\ wasp$



leopard frog



 $\begin{array}{c} metallic\ bee\ on\\ tickseed \end{array}$

plants are adapted to local conditions and their gene pools should be preserved. Restorationists do not agree on how far from a site seeds may be collected, and distances range from 50 to 250 miles. Most restorationists use 100 miles as a



Hay seeding Coastal Prairie at Lacassine National Wildlife Refuge.

rule of thumb, and that distance can be stretched east or west if no other seeds are available. Individuals or organizations interested in restoration should thoroughly explore the

options. Several books, websites, and experts are available to assist restorationists, and some are listed at the back of this brochure.

Management

Restorationists are often discouraged when the first few years after a restoration has been implemented, aggressive annual weeds dominate the site. However, they shouldn't despair for perennials will eventually displace the weedy annuals. Experts don't recommend the use of fertilizer because it will often give weedy annuals an advantage.

Burning is the natural mechanism by which prairie renews itself. Fire prevents woody plants from establishing, stimulates seed germination, replenishes nutrients, and allows light to reach young leaves. Winter burning after the first year speeds the change from an annual community to one dominated by perennial plants. Restorations can be burned every one to three years based on available fuel and management objectives. Historically, prairie fires occurred in the summer as a result of lightning strikes. Native Americans often burned

prairie in the winter and early spring. It is most common to burn when plants are dormant, but an occasional burn during the growing season enhances diversity. Where fire is not an option, the restoration may be mowed or haved (mowing and having are very different — hay is not removed after moving), but this may affect the species that survive long term. Weeds such as Chinese tallow trees may have to be sprayed with herbicide or physically removed, especially from wet spots where fire does a poor job of control. It will take several years before a Coastal Prairie patch begins to mature, but when it does, most weedy exotics will be excluded naturally.

The Coastal Prairie is a unique and vital part of the biosphere that has almost vanished within the last 100 years. Much has been lost both in terms of land coverage and native species, and what remains is in need of protection and rehabilitation. Because so little remains, the future of Coastal Prairie depends on restoration. Americans can help in this effort to protect and restore Coastal Prairie by

Using fire to control Chinese tallow trees.



supporting or participating in restoration efforts. Even a small backyard prairie garden $(12' \times 12')$ provides a piece of this native ecosystem. Thousands of such gardens dot the midwestern countryside, providing a refuge for native plants, insects, and birds, and an alternative. sustainable landscape.

Appendix

Contacts for more information

Louisiana Organizations

Cajun Prairie Habitat Preservation Society, Dr. Charles Allen Dept. of Biology, University of Louisiana at Monroe, Monroe, LA 71209 318/342 1814

Cajun Prairie Gardens, Dr. Malcolm Vidrine 1932 Fournerat Road, Eunice, LA 70535 337/457 4497

Lacassine National Wildlife Refuge 209 Nature Road, Lake Arthur, LA 70549 337/774 5923

Louisiana Native Plant Society, Beth Erwin, Secretary PO. Box 126, Collinston, LA 71229 318/874 7777

U.S.G.S. National Wetlands Research Center 700 Cajundome Boulevard, Lafayette, LA 70506 337/266 8500

U.S. Fish and Wildlife Service 646 Cajundome Boulevard, Suite 400, Lafayette, LA 70506 337/291 3100

Texas Organizations

Anahuac National Wildlife Refuge PO. Box 278, Anahuac, TX 77514 409/267 3337

Aransas National Wildlife Refuge PO. Box 100, Austwell, TX 77950 512/286 3559

Armond Bayou Nature Center, c/o Mark Kramer, Stewardship Coordinator, 8500 Bay Area Blvd., P.O. Box 58828, Houston, TX 77258 713/474 2551

Attwater Prairie Chicken National Wildlife Refuge PO. Box 519, Eagle Lake, TX 77434 $409/234\ 3021$

Brazoria National Wildlife Refuge 1212 North Velasco, Angleton, TX 77515 409/849 7771

Coastal Prairie Conservation Initiative Sam Houston RC&D Area, c/o John Campbell, Coordinator 1410 South Gordon, Alvin, TX 77511 281/388 1734

Environmental Institute, University of Houston, c/o Dr. Jim Lester, Director, 2700 Bay Area Boulevard, Houston, TX 77058 281/283 3950

Houston Audubon Society 440 Wilchester Boulevard, Houston, TX 77079-7329 713/932 1639

Katy Prairie Conservancy 3015 Richmond Avenue, Suite 230, Houston, TX 77098-3114 713/523 6135

Lady Bird Johnson Wildflower Center 4801 Lacrosse Avenue, Austin, TX 78739 512/292 4200

Native Plant Society of Texas PO. Box 891, Georgetown, TX 78627 512/238 0695 Native Prairies Association of Texas 3503 Lafayette Avenue, Austin, TX 78722-1807 512/327 5437

The Nature Conservancy of Texas P.O. Box 1440, San Antonio, TX 78295-1440 210/224 8774

Texas Organization for Endangered Species P.O. Box 12773, Austin, TX 78711

Texas Audubon Society 2525 Wallingwood, Suite 301, Austin, TX 78746-6922 512/306 0225

Texas Society for Ecological Restoration University of North Texas, 225D EESAT, Denton, TX 76203 940/565 4332

Texas Chapter - The Wildlife Society, Welder Wildlife Foundation P. 0. Box 1400, Sinton, TX 78387

Texas Chapter - Society for Range Management, Clifford W. Carter 234 Lakeview Drive, Victoria, TX 77905 361/578 9296

U.S. Fish and Wildlife Service 17629 el Camino Real, Suite 211, Houston, TX 70058 281/286 8282

Books

A Cajun Prairie Restoration Journal:1988-1995. M. F. Vidrine, C. M. Allen and W. R. Fontenot

 $Butterflies\ of\ Houston\ \&\ Southeast\ Texas,$ 1996. John & Gloria Tveten.

Grasses of Louisiana, 1992. Charles Allen.

Grasses of the Texas Gulf Prairies and Marshes, 1999. Stephan L. Hatch, Joseph L. Schuster, and D. Lynn Drawe.

Restoring Tallgrass Prairie: an illustrated manual for Iowa and the upper midwest, 1994. Shirley Shirley.

The Tallgrass Restoration Handbook for prairies, savannas, and woodlands. 1997. Stephen Packard and Cornelia F. Mutel.

Wildflowers of Houston, 1993. John & Gloria Tveten.

Wildflowers of Texas, 1994. Gevata Ajilvsgi

Internet

Web sites

www.fws.gov (U.S. Fish and Wildlife Service)

www.nwrc.usgs.gov/coastalprairie (National Wetlands Research Center)

www.cajunprairie.org (Cajun Prairie Habitat Preservation Society)

www.fws.gov/r4lcs/lcsframe.htm (Lacassine NWR)

E-mail

fw4 es lafayette@fws.gov (Lafayette office of USFWS)

fw2 es houston@fws.gov (Houston office of USFWS)

fw4 rw lacassine@fws.gov (Lacassine NWR)

mvidrine@lsue.edu (Malcolm Vidrine, L.S.U. at Eunice)

larry allain@usgs.gov (Larry Allain, N.W.R.C.)

biallen@alpha.nlu.edu (Charles Allen, U. of L. at Monroe)

common name scientific name

 $Plant\ species\ photographs$

common name scientific name

American aloe	Manfroda vivainiaa
American germander	
American germander	
Annual sunflower	
Arrowleaf rattlebox	
Arrow-leaf violet	
Ashy sunflower	
Bearded grass-pink	
Betonyleaf noseburn Big bluestem	
Black-eyed susan	
Blueflower eryngo	
Blue jasmine	
Blue sage	
Blue waterleaf	•
Blue-mist flower	
Bushy bluestem	
Butterfly-weed	
Brown-seed Pasaplum	
Button snakeroot	
Canada lousewort	
Canadian goldenrod	
Candyroot	
Carolina larkspur	
Centuary	
Climbing hemp vine	
Cluster bushmint	
Clustered mountain-mint	
Common evening primrose	
Compass plant	
Coralbean	
Doll's daisy	
Downy lobelia	
Downy milkpea	
Drumheads	
Drummond rain lily	
Eastern blue-eyed-grass	
Eastern blue-star	
Eastern gamagrass	Tripsacum dactyloides
Eastern yellow stargrass	
Falling beakrush	
False dandelion	
False foxglove	
False garlic	
Flat-topped goldenrod	Euthamia tenuifolia
Florida bluehearts	
Florida paspalum	
Flowering spurge	
Fringed sneezeweed	
Gaping panicum	
Golden colic-root	
Grassland prickly pear	
Green milkweed	
Gulf cordgrass	$\dots Spartina\ spartinae$
36	

Gulf coast muhly	Muhlenbergia capillaris
Hairy golden aster	Chrysopsis pilosa
Hairy spiderwort	Tradescantia hirsutiflora
Hairy ticktrefoil	Desmodium ciliare
Heath aster	Aster ericoides
Hooker's eryngo	Eryngium hookeri
Huisache	
Illinois bundleflower	
Indiangrass	Sorghastrum nutans
Indian plantain	
Ivyleaf boneset	
Kansas gayfeather	
Lanceleaf loosestrife	
Lanceleaf tickseed	
Large-flowered beeblossom	
Late purple aster	
Lemon beebalm	
Lindheimer's beebalm	
Little bluestem	
Longspike tridens	
Long-leaf milkweed	
Louisiana vetch	
Marsh fleabane	
Maryland golden-aster	
Maryland meadow beauty	
Maryland milkwort	
Maypop	
Maximilian sunflower	
Meadow garlic	
Multibloom-hoarypea	
Muskogee beardtongue	
Narrowleaf boneset	
Narrowleaf sandvine	
Narrowleaf seedbox	
Narrowleaf sunflower New Jersey tea	
Nits and lice	
	Baptisia bracteata var. leucophaea
Old field toadflax	
Pale coneflower	
Pale lobelia	
Partridge pea	
Pennywort	
Pineland milkweed	Asclenias obovata
Pinewoods dropseed	
Pink milkwort	
Pink wildbean	
Plains coreopsis	
Poorjoe	
Prairie bluets	
Prairie buttercup	
Prairie clover	
Prairie coneflower	
Prairie parsley	

 $scientific\ name$

Plant species photographs

common name $scientific\ name$

common name	scientific name
Prairie petunia	
Prairie phlox	
Prairie rose-gentian	Sabatia campestris
Prairienymph	
Purple-head sneezeweed	
Purple silky scale	Anthaenantia rufa
Rabbit tabacco	
Rayless goldenrod	
Red iris	
Red milkweed	
Rosinweed	
Rough skullcap	Scutellaria integrifolia
Round-head bushclover	$Lespedeza\ capitata$
Roundleaf boneset	Eupatorium rotundifolium
Roundpod St. John's Wort	Hypericum cistifolium
Saltmarsh morning-glory	$Ipomoea\ sagittata$
Sandbur	
Sampson's snakeroot	Orbexilum pedunculatum
Scaly gayfeather	
Seaside goldenrod	Solidago sempervirens
Sensitive briar	Schrankia microphylla
Sessile-leaf ticktrefoil	
Swamplily	Crinium americanum
Sharpsepal beardtongue	Penstemon tenuis
Shiny goldenrod	Solidago nitida
Showy evening-primrose	Oenothera speciosa
Sidebeak pencil-flower	
Silkgrass	
Silky evolvulus	
Silver bluestem	
Silverleaf nightshade	
Single-stem scurfpea	
Slender false dragonhead	
Slender gayfeather	
Slender mountain-mint	Pucnanthemum tenuifolium
Small skullcap	
Snow-on-the-prairie	
Snowy orchid	
Southern blueflag	
Split-beard bluestem	
Spot flower	
Spotted beebalm	
Spider lily	
Springbeauty	
Spring ladies'-tresses	
Spurred butterfly pea	
Stiff yellow flax	
St. Peter's-wort	
Swamp lily	
Swamp milkwort	
Sweet goldenrod	
Switchgrass	
Tall coneflower	
Tall ironweed	vетнонии учу <i>ание</i> и

Tall tickseed	Coreopsis tripteris
Tansy dogshade	
Ten-petal anemone	
Texas coneflower	
Texas ironweed	
Texas paintbrush	Castilleja indivisa
Texas prickly pear	
Texas star hibiscus	Hibiscus coccineus
Texas thistle	
Texas vervain	
Texas wintergrass	Nassella leucotricha
Thin paspalum	
Three seeded mercury	
Toothache grass	
Turks' cap	
Venus' looking glass	
Virginia dayflower	
Water hemlock	
Water southern morning-glory	
Western horsenettle	
Western silver aster	Aster sericeus
White bract blazingstar	Liatris elegans
White colic-root	Aletris farinosa
White mountainmint	Pycnanthemum albescens
White prairieclover	$\dots Dalea\ candida$
White-top sedge	Rhynchospora colorata
White wild-indigo	Baptisia alba
Whorled milkweed	Asclepias verticillata
Wild coco	
Willowleaf aster	Aster praealtus
Winecups	Callirhoe papaver
Woolly croton	Croton capitatus
Woolly groundsel	
Wooly rose-mallow	
Wrinkled-leaf goldenrod	Solidago rugosa
Yarrow	
Yellow-eyed-grass	Xyris laxiflora
Yellow Indian-blanket	Gaillardia aestivalis
Yellow meadowbeauty	Rhexia lutea
Yellow wild indigo	$\dots Baptisia\ sphaerocarpa$
Yellowpuff	Neptunia lutea

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