

HOUSTON WILDERNESS It's Our Nature

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Date Completed:	Date Issued:	Name of School:	County	Houston Wilderness ecosystem I live in:	First
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Year	Year				Last

www.houstonwilderness.org

At Houston Wilderness, we want you to visit and learn about nearby wilderness areas. Did you know that the Houston Wilderness region has 10 different ecosystems?

Each time you visit a different ecosystem, put a sticker on your passport showing that you were there, just like a real passport. To download stickers, please go to houstonwilderness.org/passport.

Ecoregions Estuaries

Estuaries & Bays
Bayou Wilderness

Prairie Systems

Trinity Bottomlands

Big Thicket
Piney Woods

Columbia Bottomlands

Coastal Marshes

Post Oak Savannah

Gulf of Mexico

For GGQ schools and participants please go to

www.greatgreenquest.org

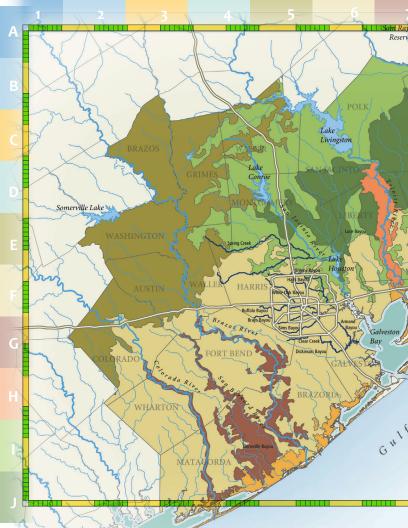


We're Mari and Hoppi and we'll be your guides!



Also throughout this passport you will find out the answers to these and other questions:

- What is the longest river that begins and ends in Texas?
- How many birds pass through the Columbia Bottomlands every year?
- What is the Attwater's Prairie Chicken and what does "endangered" mean?





My Ecoregions Map

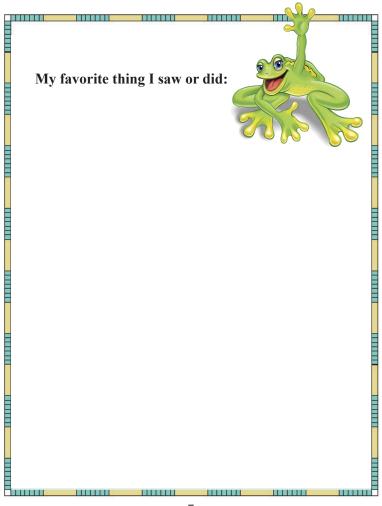
- Estuaries & Bays
- Bayou Wilderness
- Prairie Systems
- Trinity Bottomlands
 - Big Thicket
 - Piney Woods
- Columbia Bottomlands
- Coastal Marshes
- Post Oak Savannah
- Gulf of Mexico

Next to each site is a letter (A-J) and a number (1-10). Refer to this map to get a general idea of where the site is located in the Greater Houston Area. Use the letters to go laterally across the map and then the number to go longitudinally.

My Discoveries

The coolest thing I saw:	
The weirdest thing I saw:	
Something I did not know before:	
Best part of my visit:	

Did you know that **Sea Center Texas** has a "touch tank?" You can gently feel blue crabs, hermit crabs, stone crabs, snails, and even anemones.



Estuaries and Bays



You've heard of nurseries for babies – well, the marshes along the Texas gulf coast provide a nursery area for young fish and shellfish. Where freshwater from rivers meets saltwater from the Gulf of Mexico, you can find an amazing diversity of animals, from fish and oysters to shrimp and blue crabs.

Did you know that 90 percent of the commercial fish and shellfish caught in Galveston Bay and the Gulf of Mexico spend at least part of their lives in an estuary? Can you draw a food web that includes organisms that live in bays and estuaries?

Estuaries and Bays sites to visit:

Artist Boat (H-7) 2627 Avenue O Galveston, TX 77550

• (409) 770-0722

www.artistboat.org/

② Galveston Island State Park (H-6) ☐•(409) 737-1222 "Bay Side"

14901 FM 3005 Galveston, TX 77554 www.tpwd.state.tx.us/state-parks/galveston-island

- 3 Texas State Marine Center (J-3) (361) 972-3774 102 Marine Center Drive Palacios, TX 77465 http://palaciosisd.fesdev.org/vnews/display.v/SEC/Texas%20State%20Marine%20Education%20Center
- Pine Gully Park (G-6)
 605 Pine Gully Road Seabrook, TX 77586
 seabrooktx.gov/Facilities/Facility/Details/12



Did you know that Galveston Bay is the second most productive estuary in the country? You can visit this unique ecosystem at **Galveston Island State Park "Bay Side"** and see many animals including birds, fish, and marsh rabbits.

Bayou Wilderness



The brown ribbons of water winding through neighborhoods and along city streets may look dirty, but they're actually carrying sand, soil and nutrients down to their ultimate destination: the bays and estuaries.

These waterways also have a number of creatures in them (yes, fish do live in these waters) and they provide homes and food sources to many wild creatures, including opossums, raccoons, armadillos and alligators. They also provide a needed wet place for toads and dragonflies that eat millions of mosquitoes!

Bayou Wilderness sites to visit:

1 Armand Bayou (G-6) ☐ • (281) 474-2551 Nature Center 8500 Bay Area Blvd. Pasadena, TX 77258

www.abnc.org/

- 2 Arthur Storey Park (G-5) (281) 496-2177 7400 West Sam Houston Pkwy S, Houston, TX 77072 www.pct3/parks/storey-park
- 3 Buffalo Bayou Park (F-5) ☐ (713) 752-0314 1800-3600 Allen Parkway/Memorial Drive www.buffalobayou.org/
- 4 Eddie V. Gray (F-6) (281) 420-7128 Wetlands Center
 1724 Market Street Baytown, TX 77520

http://bay town.org/city-hall/departments/parks-recreation/eddie-v-gray-wetlands-education-center

Did you know that the Houston Arboretum and Nature Center participates in the **Texas Amphibian Watch**? This program is used to **count the number of frogs and toads** in Texas. Volunteers are trained to listen to amphibian calls and record them.

Bayou Wilderness sites to visit:

(713) 932-1639

🧲 Edith L. Moore (F-7) 🔲 **Nature Sanctuary** 440 Wilchester Blvd, Houston, TX 77079 http://houstonaudubon.org/sanctuaries/edith-moore/edith-moore.html 6 Houston Arboretum (F-5) • (713) 681-8433 & Nature Center 4501 Woodway Dr, Houston, TX 77024 http://houstonarboretum.org/ 🚺 Jesse H. Jones Park (E-5) 🔲 • (281) 446-8588 & Nature Center 20634 Kenswick Drive Humble, TX 77338 www.hcp4.net/iones/ 🤼 Keith Wiess Park (F-5) 🔲 · (832) 395-7000 12300 Aldine Westfield Rd. Houston, TX 77093 www.houstontx.gov/parks/parksites/keithwiesspark.html 👤 MacGregor Park (G-5) 🔲 • (713) 747-8650 5225 Calhoun Houston, Texas 77021

🕕 Mason Park (G-6) 🔲 • (713) 928-7055 541 South 75th Street Houston, Texas 77023

www.houstontx.gov/parks/parksites/masonpark.html

www.houstontx.gov/parks/parksites/macgregorpark.html

Bayou Wilderness sites to visit:

🕦 Mercer Arboretum (E-5) 🔲 • (281) 274-4160 & Botanic Gardens 22306 Aldine Westfield Road Humble, TX 77338 www.hcp4.net/mercer/ 🚺 Memorial Park (F-5) 🛭 (713) 863-8403 6501 Memorial Drive Houston, TX 77007 www.memorialparkconservancy.org/visit-memorial-park.html 📵 Sims Bayou Urban (G-6) 🔲 • (713) 640-2407 **Nature Center** 3997 River Drive Houston, TX 77017 http://houstonaudubon.org/sanctuaries/sims-bayou.html 🚺 Shangri La Botanical (E-9) 🔲 • (409) 670-9113 **Gardens & Nature Center** 2111 West Park Avenue Orange, Texas 77630 starkculturalvenues.org/shangrilagardens/ **15** Terry Hershey Park (F-5) • (281) 496-2177 15200 Memorial Drive, Houston, TX www.terryhersheypark.org

Tony Marron Park (G-5)
808 N. York Street Houston, Texas 77003
www.buffalobayou.org/visit/destination/neighboring-parks

Prairies



Did you know that the Houston area used to be home to many bison and tallgrasses? When settlers arrived, most of Houston had prairie grasses taller than a 6-foot person. Today, less than 1 percent of the original coastal prairie still exists. These areas are very important to migrating birds and are home to more than 1,000 plant species, including big bluestem and little bluestem. Can you see the blue in little bluestem?

Can you describe the relationship between the Native Americans and the bison?

Prairies sites to visit:

- Attwater Prairie Chicken NWR (G-3) (979) 234-3021 FM 3013 Eagle Lake, TX 77434

 www.fws.gov/refuge/Attwater Prairie Chicken/
- George Ranch Historical Park (G-5) (281) 343-0218 10215 FM 762 Richmond, TX 77406-1248 http://www.georgeranch.org
- Texas City Prairie Preserve (H-6) (409) 941-9114
 4702 Highway 146 North Texas City, TX 77590
 www.nature.org/ourinitiatives/regions/northamerica/unitedstates/texas/placesweprotect/texas-city-prairie-preserve.xml
- Katy Prairie Conservancy Wildlife (E-4) (713) 523-6145
 Matt Cook Memorial Wildlife Viewing Platform, Warren Ranch Rd., Hockley,
 TX, www.katyprairie.org/warren-ranch/#MattCook
 Site 100 on Upper TX Coast Birding,
 Trail west of Nelson Farm Preserve 28411 Sharo Road Katv. TX
- Sheldon Lake State Park (F-6) (281) 456-2800
 14140 Garrett Rd. Houston, TX 77044
 www.tpwd.state.tx.us/state-parks/sheldon-lake

Did you know that pocket prairies are popping up in Houston's urban core? The M.D. Anderson Pocket Prairie in the Texas Medical Center (TMC) provides an excellent wildlife habitat in the city and also presents educational and recreational opportunities that benefit patients and visitors of the TMC.

Trinity Bottomlands



The Trinity River area is home to many large hardwood trees, including cypress and tupelo. These trees act as a very important flood buffer. When rains make the Trinity River grow wider, this area absorbs the floods, holding back water with the roots of the trees and plants that grow along its shores.

Did you know that cypress trees have adaptive features called "knees"? Can you think of ways "knees" might help the tree survive?

Trinity Bottomlands sites to visit:

Trinity River (E-7)
National Wildlife Refuge
601 FM 1011 Liberty, TX 77575
Coordinates: (30.098288, -94.765547)

• (936) 336-9786

2 USACE Wallisville Lake Project (F-7)

www.fws.gov/refuge/trinity_river/

• (409) 389-2285

FM 563 Wallisville, TX 77597-0036 www.swg.usace.army.mil/Locations/WallisvilleLakeProjectOffice.aspx





Did you know that **half of all the bird species** identified in the United States live in or migrate through the Trinity and Columbia Bottomlands?

Big Thicket



In the thick, green woods known as the Big Thicket, you can find orchids and insect-eating plants! The Big Thicket is a fragile ecosystem where Southeastern swamp meets Eastern hardwood forest, Midwestern prairie and elements of the Southwestern desert landscape. The diversity of plants here attracts many migrating songbirds.

Can you name four kinds of insect-eating plants found in the Big Thicket? What sorts of trees provide the best habitat for songbirds?

Big Thicket sites to visit:

● Big Thicket □ • (409) 951-6700

National Preserve (D-8)
6102 FM 420 Kountze, TX 77625

Martin Dies, Jr. State Park (B-8) (409) 384-5231 634 Private Road 5025 Jasper, TX 75951 www.tpwd.state.tx.us/state-parks/martin-dies-jr

- **3** Village Creek State Park (D-8) ☐ (409) 755-7322 US 96 Lumberton, TX 77657
- www.tpwd.state.tx.us/state-parks/village-creek

www.nps.gov/bith/index.htm

4 Lake Creek Preserve (E-5) (281) 576-1634 Sendera Ranch Dr, Montgomery, TX 77316 http://lakecreektx.org/

Did you know that **Big Thicket National Preserve** has over 45 miles of hiking trails? Did you also know that along these trails live several species of **carnivorous plants**? But don't worry, these plants prefer insects to humans!

Piney Woods

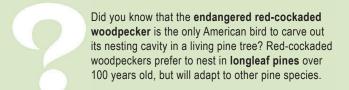


The Piney Woods are named for loblolly, shortleaf and long-leaf pines. Mostly found in East Texas, these trees stretch all the way west to Montgomery County, just north of Houston. Longleaf pines were almost lost due to logging and lack of fire, but thanks to new forestry methods, they will hopefully make a return.

How does the use of controlled fires help longleaf pines grow back? How does fire affect the other organisms in this ecosystem?

Piney Woods sites to visit:

- Lake Houston Wilderness Park (E-6) ☐ (281) 399-8464 22031 Baptist Encampment Road New Caney TX 77357-7731 www.houstontx.gov/parks/parksites/lakehoustonpark.html
- W. Goodrich Jones State Forest (E-5) (936) 273-2261 1328 FM 1488 Road Conroe, TX 77384 texasforestservice.tamu.edu/jones-state-forest/
- 300 Park Road 65 Livingston, TX 77351
 www.tpwd.state.tx.us/state-parks/lake-livingston
- 4 Huntsville State Park (C-5) • (936) 295-5644
 Park Road 39 Huntsville, TX 77342-0508
 www.towd.state.tx.us/state-oarks/huntsville
- Montgomery County Preserve (E-5) ☐ (281) 353-8100
 1118 Pruitt Road Spring, TX 77380
 www.springcreekgreenway.org/mcp.htm
- (§ Sam Houston National Forest (C-5) (936) 344-6205 394 FM 1375 West New Waverly, TX 77358 www.fs.usda.gov/detail/texas/about-forest/districts/?cid=fswdev3_008443



Columbia Bottomlands

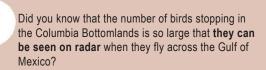


Every year, almost 30 million migratory birds stop in this area along the Brazos, Colorado and San Bernard rivers. The old trees in these wet, low-lying and insect-rich forests help provide rest and food for the birds.

Did you know that the Colorado River flows almost 900 river miles and drops roughly 3,000 feet from the river's origin in Dawson County to Matagorda Bay? It is the longest river that has its entire course in Texas. Can you trace the length of the Colorado River on a map?

Columbia Bottomlands sites to visit:

- National Wildlife Refuge 6801 CR 306 Brazoria, TX 77515 www.fws.gov/refuge/san_bernard/
- Seabourne Creek Nature Park (G-5) (832) 595-3960 3831 State Highway 36 Rosenberg, Texas http://rosenbergtx.gov/seabourn-creek/



Coastal Marshes



Coastal marshes act as important sponges, helping slow and absorb storm surges (when wind and rain increase) that might otherwise do greater damage farther inland. Coastal marsh wetlands also act as filters, as the plants and soils found there clean the water of sediment and pollutants.

Can you name five organisms you might find in a coastal marsh? What special adaptations do they have for living in this ecosystem?

Coastal Marshes sites to visit:

Anahuac National (G-8) Wildlife Refuge

• (409) 267-3337

FM 1985 Anahuac, TX 77514 www.fws.gov/refuge/Anahuac/

② Brazoria National (I-6) Wildlife Refuge

• (979) 964-4011

County Road 227 Freeport, TX 77541 www.fws.gov/refuge/brazoria

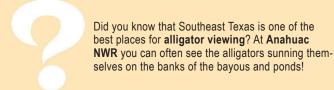
- (409) 797-5000
 On Galveston Island at the east end of Seawall Blvd.
 along Boddecker Dr. adjacent to Apffel Park (East Beach)
 www.eastendlagoon.org/about/
- San Jacinto (F-6) □ (281) 479-2431
 Battleground State Park

3523 Independence Parkway South LaPorte, TX 77571 (TX Hwy 134) www.tpwd.state.tx.us/state-parks/san-jacinto-battleground

Sea Rim State Park (G-9) ☐ (409) 971-2559

19335 S. Gulfway Drive Sabine Pass, TX 77665

www.tpwd.texas.gov/state-parks/sea-rim



Post Oak Savannah



The Post Oak Savannah is a land of mostly grassy areas with clumps of post oak trees scattered throughout. In the past, fire was an important part of the ecosystem, where it would burn before being stopped by either a change in topography or the weather. The post oaks would survive even if wildfires destroyed the grasses, leaving clumps of trees on the grassy plains.

The Post Oak Savannah is home to many animals, including wild turkeys, red-tailed hawks, white-tailed deer and coyotes. What are some of the ways that wild turkeys get water in this ecosystem?

Post Oak Savannah sites to visit:

1 Stephen F. Austin □ • (979) 885-3613 State Park (F-3)

Park Road 38 San Felipe TX 77473-0125 www.tpwd.texas.gov/state-parks/stephen-f-austin

Washington-on-the-Brazos (E-3) ☐ • (936) 878-2214 State Park

23200 Park Road 12 Washington, TX 77880 www.tpwd.texas.gov/state-parks/washington-on-the-brazos



Did you know that Post Oaks can grow to be 300 years old? There have even been some Post Oaks found that were over **400 years old**!

Gulf of Mexico



Surrounded by the United States, Mexico and Cuba, the Gulf of Mexico is more than half a million square miles of warm, sunlit waters and a steady food supply for an array of fish, wildlife and humans alike. About two-thirds of the continental United States drains into the Gulf, including states as far away as Montana and New York.

The Gulf of Mexico is the ninth largest body of water in the world and home to unique coral reef ecosystems, including the Flower Garden Banks National Marine Sanctuary, about 100 miles from the coast of Galveston

Gulf of Mexico sites to visit:

Sea Center Texas (H-5) 300 Medical Drive Lake Jackson, TX 77566

• (979) 292-0100

- www.tpwd.state.tx.us/spdest/visitorcenters/seacenter/
- Matagorda Bay Nature Park (J-4) 6420 FM 2031 Matagorda, TX 77457

• (979) 863-2603

www.lcra.org/parks/developed parks/matagorda.html

Galveston Island State Park □
"Gulf Side" (H-6)

• (409) 737-1222

14901 FM 3005, Galveston, TX, 77554 www.tpwd.texas.gov/state-parks/galveston-island

4 Houston Audubon's Bolivar Flats Bird Sanctuary (G-7)

• (713) 932-1639

For directions visit: http://houstonaudubon.org/sanctuaries/bolivar-flats/

Did you know that the Gulf Stream, which originates in the Gulf of Mexico, is one of the strongest ocean currents on earth? The stream exits the Gulf through the Strait of Florida, follows the eastern coastline of the United States and crosses the Atlantic Ocean to Europe and Africa.

Other Places to Explore



The Houston Wilderness region has a rich, vibrant history that can be explored and learned about at a variety of museums and cultural centers throughout the 10 ecoregions. Discovering the roles that nature plays in the decisions our ancestors made can be fascinating and rewarding. Many of the "Other Places to Explore" sites offer special exhibits and programs that provide excellent learning opportunities for people of all ages.

Other Places to Explore:

■ Bellaire Nature Discovery Center (713) 667-6550
7112 Newcastle Bellaire, TX 77401

www.naturediscovervcenter.org/

② Brazos Valley Museum (C-2) □ • (979) 776-2195 of Natural History

3232 Briarcrest Drive Bryan, TX 77802 www.brazosvalleymuseum.org/

Brazoria County 400 College Blvd Clute, TX 77531

1500 Binz Houston, TX 77004 www.cmhouston.org/

Museums and Zoos can be good places to learn about ecosystems locally and around the world. A breeding program at the Houston Zoo is working to save the **Attwater's Prairie**Chicken from extinction.

Other Places to Explore:

- Discovery Green 1500 McKinney Houston, TX 77010 www.discoverygreen.com/
- 6100 Hermann Park Orive, Houston TX 77030

 www.hermannpark.org/
- Houston Museum (G-5) (713) 639-4629
 of Natural Science
 One Hermann Circle Drive Houston, TX 77030
 - www.hmns.org/
- Houston Zoo (G-5) □

 6200 Hermann Park Drive Houston, TX 77030
 www.houstonzoo.org/
- Museum of the Gulf Coast (F-9) (409) 982-7000
 700 Procter Port Arthur, TX 77640
 www.museumofthegulfcoast.org
- Nature Discovery Center (G-5)
 7112 Newcastle Bellaire, TX 77401
 www.naturediscoverycenter.org/

FAMILY FUN: EXPLORE, PLAY, ENJOY AND... REPEAT!













Check out the Family Nature Club at ${\bf houstonzoo.org}$ for more information









Plan on a summer of adventure and fun by joining the Great Green Quest! It's a friendly challenge for families, schools, nature lovers, and outdoor enthusiasts to visit all ten ecoregions over the summer.

For more information, or if you would like to become a sponsor for an area school, please visit greatgreenquest.org or houstonwilderness.org/ggg





Get Outdoors Houston Download the mobile friendly app today!

Get Out Here is a website and corresponding phone App designed as a portal into the fun and exciting outdoor adventures throughout the Houston Gulf Coast region. There are many events happening every week in Houston to help you get outside and engaged in different parts of the 10 ecoregions in and around the Houston area. Go to the site below to find what, where, and when events and outdoor activities are taking place.

Getoutherehouston.org

HOUSTON WILDERNESS

is a broad-based alliance of business, environmental and government interests that acts in concert to protect, preserve and promote the unique biodiversity of the region's precious remaining ecological capital from bottomland hardwoods and prairie grasslands to pine forests and wetlands.

This mission is accomplished through Convening various groups to promote protect and preserve the biodiversity in our 10 ecoregions; providing collaborative Problem-solving opportunities on critical environmental issues; and Educating the public on the many exciting outdoor opportunities in the Greater Houston Region and the health benefits associated with nature. These ecoregion landscapes decrease repetitive flooding, improve water quality boost outdoor recreation, ecotourism and economic growth.

www.houstonwilderness.org

