

TABLE OF CONTENTS

History
Global Garden Collection Overview
Culinary Garden
Fountain & Alcoves
Cycad Collection
In the Sanctuary, Rainforest, & Bananas
Bamboo
Arid Valley
Savanah
Asian Garden
Pollinator Plaza
Susan Garver Family Discovery Garden
Plant Morphology
Local Habitat



HISTORY

The land on which the Houston Botanic Garden sits today had been useful to and enjoyed by wildlife and the indigenous peoples of the Texas Gulf Coast since long before colonization.

The town of Harrisburg, founded nearby – between Brays Bayou and Lawndale – in 1854, was the precursor to the emergence of Houston as the primary city in the region. The town saw many firsts for the area, including the first port and first railroad.

Around this same time, Allen's Ranch encompassed approximately 15,000 acres to the southwest of Harrisburg, where camels, among other animals, were known to graze. In the early 1900s, following the passing of Samuel E. Allen, Allen's Ranch was divided, and a portion became the small city of Park Place. Intended as an innovative, modern suburb, promotional materials from as early as 1919 included mention of a clubhouse, with a gym, swimming pools, and more. In 1922, the Park Place golf course opened, unfortunately destroying many acres of timbered forest that had provided habitat for native plants and wildlife.

By 1927, the city of Houston had annexed Park Place, and citizens petitioned the city to purchase the country club and turn it into a park. From 1943 until the mid-2010s, the Glenbrook Country Club and Golf Course served as the primary form of recreation in the area, although use began to decline in the 1970s and continued through subsequent decades.



HISTORY

After raising \$20 million dollars between 2015 and 2017 to show the city of Houston that there was sufficient public interest, the nonprofit Houston Botanic Garden received a long-term lease from the city for the 132-acre former Glenbrook Golf Course site. Construction on the 30-year master plan by Dutch landscape design firm West 8 started in the spring of 2019, and the Garden opened to the public on September 18, 2020, following an official ribbon-cutting the day prior.

Phase I of the master plan includes approximately 25 acres of development, including the Global Collection Garden, Culinary Garden, Susan Garver Family Discovery Garden, Woodland Glade, Pine Grove, Coastal Prairie, and Stormwater Wetlands.





GLOBAL COLLECTION GARDEN OVERVIEW

The Global Collection Garden has over 400 species of plants; nearly half of the diversity of plants can be found here.









The Global Garden is a 3 acre space, dense with collections of plantings from around the world that do well in our Houston climate.

Many initial plantings were experimental for Houston, but following Uri and recent climatic events the collections plantings are less experimental and more designed with risk of loss in mind.

Many zones are inspired by regions of the world that are climatically similar to Houston.

Mass plantings and unusual plants can be found here: with over 100 native, 140+ medicinal, and 20+ bat pollinated plants - and growing.



FOUNTAIN & ALCOVES

The Abendshein Family Fountain

The fountain is made of coral stone that was brought in from the Dominican Republic. These pieces used for the fountain were ones that were deemed not 'pretty' enough for the alcove walls- and were instead repurposed for this fountain! Here at the Garden we believe in reducing waste and reusing any material we can. The pockets in the walls were made from waves and erosion in the ocean, and they are perfect for holding plants and make little homes for some tiny creatures.



The walls of this football field length shady area stay cool, even in the summer. The alcoves host our vine collection as you can see vines going up each of the columns. The wall has built in planters. Each grouping of plants in the wall planters is a little different. Depending on the area there are bromeliads, ferns, woodsorrels, ficus, and some seasonal plants. The shape of the alcove's roof is designed for water to runoff into the parking lot so that it goes through the gravel and travels to the wetland below the ground.

CYCAD COLLECTION

One cool collection in the Corner of Curiosity is the cycads. We have over 17 species of cycad in the garden, each with a different leaflet shape.

Cycads are ancient plants that existed during the time of the dinosaurs. Fun fact: cycads are more related to pine trees than they are to palm trees.

Like conifers, the plants are gymnosperms which means that their seeds are not encased in an ovary.

The Cycas revoluta x micholitzii is one of the most valuable plants in the garden. Its leaflets split into V's. All cycads have midveins, but they lack lateral veins. The forked leaflet pattern is rare.

One fascinating cycad is Encephalartos trispinosus (Bushman's river cycad). Its leaflets are stiff, incredibly sharp, and vary in the number of points they have. Young leaves are a beautiful bronze color and unfurl like a fern.

Almost all cycads have circinate venation - or when the tips of new leaves are coiled.





IN THE SANCTUARY

The sanctuary provides shade and a tranquil place to sit in the Garden to reflect on nature's beauty. It is a home to mostly native plants that are shade and drought tolerant, like yucca, rock rose, and agave.

TROPICAL HEART

In traditional medicine, Galphimia glauca (golden thyrallis) is used to combat hay fever and allergy reactions. Also, this plant is extremely drought-tolerant. You can find this spreading plant with golden flowers surrounding the Tropical Garden.

BANANAS

Bananas aren't actually trees. They are monocarpic herbs. That means they flower once, and that part of the plant dies to the ground and leaves a pup that starts the next generation. The banana stem is under the ground, and the part of the plant that we think of as a tree is actually a pseudostem.



ARID VALLEY

Representing the desert are the Arid Valley, Cactus Garden, and Prickly Path where a variety of agave, yucca, cacti, and other arid loving plants are showcased. Succulents like cacti use stems to store water. Many cacti undergo a specialized photosynthesis to further conserve water; opening their stomata at night and storing carbon dioxide in specialized cells for use in the daytime when their stomata are closed. Some of these hardy plants can survive in extreme conditions relying on dew or mist.

Cacti spines are modified leaves, their stems do the photosynthesizing and water storage.

Their survival adaptation allows them to grow here among the Arizona onyx boulders.



SAVANNA

In the wild, the savanna is a transitional zone between forest and the desert.

A savanna is a mixed ecosystem with an open canopy of widely spaced trees that allow sufficient light through to support herbaceous groundcover, primarily grasses.

This area of the Garden includes native grasses like little blue stem, palo verde, mesquite trees, and the Dewdrop which is a beautiful small reflection pond that contains lotus.



ASIAN HILLSIDE

Our camellia collection is hosted here along with Asian palms, azaleas, pines, and gardenias to name a few.

Fun fact: The Asian Hillside is the highest point of elevation at the Garden!



11



POLLINATOR GARDEN

This section of the Garden is dedicated to pollinator plants that attract native bees, flies, wasps, butterflies, and more. They include salvias, Mexican mint marigold, and so many more. Ethnobotany is an entire field of study focused on how people interact with and use plants.

Fun Facts: The sweet almond bush (Aloysia virgata), is also known as an incense bush due to the strong almond scent. It is incredibly fragrant. Ask visitors to smell it.

In the American beautyberry (Callicarpa americana), there is a chemical that was found to defend against mosquitoes.



SUSAN GARVER FAMILY DISCOVERY GARDEN



Found on the Southside of the Garden, The Susan Garver Family Discovery Garden presents opportunities for families to engage with nature in hands-on ways, including simple water machines, a boardwalk maze around a lagoon, and plenty of space to roam and explore.

Plants found here include the Louisiana Iris (a growing collection), Carnivorous Bog, Loblolly pines, and a rainbow garden bursting with seasonal color throughout the year.



PLANT MORPHOLOGY

Plant morphology is the general term for the study of the physical form and external structure of plants. This is usually considered distinct from plant anatomy, which is the study of the internal structure of plants, especially at the microscopic level.

Docent Tip: Look up plant parts to visualize different parts of a plant. We want visitors to see the beauty of the plant beyond/in addition to the flower. A great example of this is the toothed margins of some agave plants or how certain plant stems zig-zag back and forth.

Biodiversity is a priority for Houston
Botanic Garden. They key to
understanding biodiversity is
"interconnectivity" or how everything is
linked together. Biodiversity is biological
diversity in an environment as indicated
by numbers of different species of plants
and animals, which are all interconnected
with each other and the environment.

Botanic gardens showcase plant diversity and allow researchers to find new ways to protect and increase biodiversity.



LOCAL HABITAT



STORMWATER WETLANDS

Houston Botanic Garden's 3-acre Stormwater Wetlands can store water for up to 72 hours while providing natural habitat for native wildlife. The green infrastructure houses thousands of native wetland plants evolved to take up large amounts of water while removing pollutants and fixing nitrogen. All the drainage you see at the Garden goes into the three basins that host an impressive range of native-to-Texas herons, egrets, turtles, frogs, insects, and fish (most notably, mosquito fish that team up with dragonflies to ensure little to no mosquitos call the waterbodies home).

Prior to development, Houston and the entire gulf coast region was mostly prairie and wetlands. These natural ecosystems absorbed excess rain water and prevented erosion for centuries. With the loss of more than 90% of such natural systems, manmade stormwater wetlands are an essential remedy.

COASTAL PRAIRIE

The Coastal Prairie is a sustainable habitat of prairie grasses and other native species that promotes conservation of soil, water, air, and wildlife. This area also acts as a temporary detention during times of high rainfall.

Today, less than one percent of that coastal prairie region remains making it essential to restore as much of those one-of-a-kind ecosystems. Houston Botanic Garden's Coastal Prairie is a five-acre slice of land being restored to what it might have looked like centuries ago. It resembles a coastal prairie by way of plant species, low spots referred to as prairie potholes, and small hills often referred to as pimple mounds.



