



Environmental Conservation Commission

June 4, 2024
Town Hall
2121 Cross Timbers Road
Flower Mound, TX 75028

6:30 p.m.

AGENDA

A. CALL TO ORDER

B. INVOCATION

C. PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG

D. PUBLIC COMMENT

The purpose of this item is to allow the public an opportunity to address the Board/Commission regarding any item on this agenda that is not a "Public Hearing." Issues regarding daily operational or administrative matters should first be dealt with by calling Town Hall at 972- 874-6000 during business hours. To speak to the Board/Commission during public comment, please fill out a comment form, which is located in the lobby of Town Hall.

In accordance with the Texas Open Meetings Act, the Board/Commission is restricted from discussing or acting on items not listed on the agenda.

- Speakers are limited to 3 minutes; a tone will sound at 30 seconds left and when time has expired, and times may be adjusted by the Chair depending on the number of speakers.
- Speakers must address their comments to the Board/Commission.
- Please state your name and address when speaking.

E. PRESENTATION

1. Presentation regarding public tree planting options and tree planting guides.

F. STAFF/DIRECTOR REPORT

G. CONSENT ITEM(S)

This part of the agenda consists of non-controversial, or "housekeeping" items required by law. Items may be removed from Consent by any Commissioner by making such request prior to a motion and vote.

1. Minutes Approval - Consider approval of the minutes from the regular meeting of the Environmental Conservation Commission on May 7, 2024.

H. REGULAR ITEM(S)

I. ADJOURNMENT–REGULAR SESSION

J. CALL WORK SESSION TO ORDER

K. WORK SESSION ITEM

1. Discuss the ECC 2024-2025 initiatives and objectives.

L. SUBCOMMITTEE REPORT

M. COORDINATION OF FUTURE AGENDAS/MEETINGS

N. ADJOURNMENT–WORK SESSION

I do hereby certify that the Notice of Meeting was posted on the bulletin board at the Town Hall for the Town of Flower Mound, Texas, in a place convenient and readily accessible to the general public at all times and said Notice was also posted on the Town's website in accordance with GC Section 551.056 on the following date and time: May 31, 2024, at 11:05 am, at least 72 hours prior to the scheduled time of said meeting.

Hannah Perez, Administrative Assistant

The Flower Mound Town Hall and Jody Smith Hall are wheelchair accessible. Requests for accommodation or interpretive services must be made 48 hours prior to this meeting by contacting Town Hall at 972.874.6000. Additional time limits will be provided for members of the public that need to address the Town Council through a translator.

Development Tree Guide



Here are six tips and tricks to help you pass your inspection:

1. Ensure that the species you have selected to plant is a large canopy species from the Town's approved planting list. The tree must be at least 8' in height and 2.5-3" in caliper width.
2. Fill out your tree certification form. Include the tree species' name, the planting location of the tree (front or side yard), the tree's caliper size, and indicate if it is an existing tree.
3. For planting instructions, please see the planting detail included with the tree species certification form (make clickable link to form). This detail also includes standards for trees planted.
4. After planting, ensure that all remaining tape and stakes from the nursery are removed.
5. Expose the root flare of the tree, this allows the inspector to check for girdling roots. Stake the bubbler head 5-6" away from the base of the tree.
6. Prune any dead or broken branches, branches that are rubbing, and branches that are growing inward towards the trunk.

Resource Links:

Tree Ordinance - www.flower-mound.com/treecode

Tree Species Certification - www.flower-mound.com/treespeciesform

Developer Approved Tree List

Southern Live Oak *Quercus virginiana*

Tree Description: Large forest type tree, semi-ever green, reaching 50-80 feet in height and a trunk 5-6 feet in diameter.



selfsufficientculture.com



chasingtrees.net



txtreefarm.com



lowes.com

Chinkapin Oak *Quercus muehlenbergii*

Tree Description: Medium to large tree, reaching 70 feet and a trunk three feet in diameter.

Escarpment Live Oak *Quercus fusiformis*

Tree Description: Medium forest type tree, semi-ever green, reaching 20-40 feet in height and a trunk three feet in diameter.



gardenstylesanantonioy.com



austintexas.gov



lawn-trees.com



Suzanne Young-npsot.org

Monterrey Oak *Quercus polymorpha*

Tree Description: Medium-sized tree, 40 feet tall and a trunk two feet in diameter.

Magnolia

Magnolia grandiflora

Tree Description: Large tree, reaching over 90 feet in height and a trunk 4 feet in diameter. Southern Magnolia pictured.



sarcraft.com



texastreeid.tamu.edu



Russeltreeexperts.com



Jacampbellsnursery.com

BurOak

Quercus macrocarpa

Tree Description: Large forest type tree, reaching 60-80 feet in height and a trunk 3-4 feet in diameter.

Shumard Red Oak

Quercus shumardii

Tree Description: Large forest type tree, reaching 100 feet in height and a trunk three feet in diameter.



Jane Hill-marylandbiodiversity.com



plantingtree.com



Texastreeid.tamu.edu



Lowe's.com

Texas Red Oak

Quercus texana

Tree Description: Medium forest type tree, reaching 30-50 feet in height.

Water Oak

Quercus nigra

Tree Description: Medium forest type tree, reaching 50-70 feet in height



American Elm

Ulmus americana

Tree Description: Large forest type tree, reaching 90 feet in height

Cedar Elm

Ulmus crassifolia

Tree Description: Large forest type tree reaching 75 feet tall and a trunk 2-3 feet in diameter.



Winged Elm

Ulmus alata

Tree Description: Medium to large forest type tree, reaching 30-50 feet in height.

Lacebark Elm

Ulmus parvifolia

Tree Description: Medium forest type tree, reaching 40 feet in height



cityhs.net



texastreed.tamu.edu



texastreed.tamu.edu



hiltonpond.org

Bald Cypress

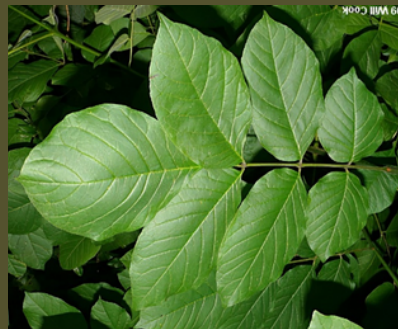
Taxodium distichum

Tree Description: Large forest type tree, reaching over 100 feet in height and a trunk 8 feet in diameter.

White Ash

Fraxinus americana

Tree Description: Large forest type tree, reaching 100 feet in height and a trunk 3 feet in diameter.



Carolinanature.com



Sciencephoto.com



texastreed.tamu.edu



nwdistrict.ifas.ufl.edu

Green Ash

Fraxinus pennsylvanica

Tree Description: Large forest type tree, reaching 70 feet in height and a trunk 2 feet in diameter.

Pecans

Carya species

Tree Description: Large forest type tree, reaching 70-100 feet in height.



Morningchores.com



Pecansouthmagazine.com



Tblogspot.com



hiltonpond.org

Hickories

Carya species

Tree Description: Large forest type tree, reaching between 60-80 feet in height.

Black Walnut

Juglans nigra

Tree Description: Large tree, reaching up to 100 feet in height and a trunk 3 feet in diameter.



gardeningknowhow.com



texastreed.tamu.edu



Seedsforafrica.com



Thoughtco.com

Juniper

Juniperus species

Tree Description: A spreading shrub that can grow anywhere from 1-5 feet for low spreading species and 60-100 feet for other species.

Texas Ash

Fraxinus texensis

Tree Description: Medium forest type tree, reaching 45 feet in height and a trunk 2 feet in diameter.



leafyplace.com



texastreed.tamu.edu



texastreed.tamu.edu



namethatplant.net

Western Soapberry

Sapindus drummondii

Tree Description: Medium to large tree, reaching between 40-50 feet in height and a trunk 1-2 feet in diameter.

Sweet Gum

Liquidambar styraciflua

Tree Description: Large tree, reaching over 100 feet in height and a trunk 3 feet in diameter.



forestry.about.com



texastreed.tamu.edu



texastreed.tamu.edu



arboretum.ua.edu

Eastern Redcedar

Juniperus virginiana

Tree Description: Large tree, reaching 50 feet in height and a trunk 1-2 feet in diameter.

Pines

Pinus

Tree Description: Large tree, reaching 100 feet in height and a trunk 3 feet in diameter. Slash pine pictured.



arundeltreeservice.meetatree.com



texastreeid.tamu.edu



discover.hubpages.com



landscaping.about.com

Leyland Cypress

Cupressocyparis leylandii

Tree Description: Medium to large tree, reaching between 40-60 feet in height.

Environmental Services

Urban Forestry

2121 Cross Timbers Road
Flower Mound, TX 75028

Kayla Lipinski, Tree Preservation Technician

Phone: 972.874.6359

E-mail: kayla.lipinski@flower-mound.com



Residential Tree Guide



Introduction

This guide contains information for caring for a new tree and a list of trees that are recommended to plant in this area. Residents may plant any tree, but these are recommended trees from the Town's approved planting list. There are a few simple factors to take into consideration when planting trees on or around your property: tree purposes, aesthetics, boundaries or buffers, screening, shade, and windbreak. Many people plant trees for different reasons. As a potential tree planter, one of the most important steps of tree selection is the identification of what you want your tree to do. This step will be essential in the selection process as it may actually dictate the species of tree that you purchase.

Selecting Your Tree - The first step is picking out your tree. When at the nursery, pick a tree with a strong central leader, no girdling roots, and make sure the tree has a natural crown shape and has not been sheared. Consider where you will be planting your new tree to ensure you are picking the right tree for the right place!

Size and Location - A common mistake made by many tree planters is that they forget to anticipate what the tree's size and shape will be at maturity. A few considerations should be taken into account at this step. Consider the height, crown spread, and root space needed by the tree. If these issues are addressed, it may prevent the development of future problems for the tree and the homeowner.

Crown Form or Shape - The crown of a tree is dictated by species and growing condition. The shape of the crown should be considered when you are in the planning stage. There are five different identifiable crown shapes: Columnar (Leyland Cypress), Oval (Texas Ash), Pyramidal (Bald Cypress), Round (White Oak), and V-shaped (American Elm).



Tree Care

Tree Planting - Fall is the best time to plant a new tree. When digging the hole for your new tree, it should be 2-3 times wider than the root mass and deep enough that the root flare of the tree will sit 1-2" above grade. Cut any girdling roots that you see before placing your tree in the ground. After placing your tree in the hole, start adding soil, hand-packing the soil around the roots. Add water halfway through filling in your soil. After all soil has been added, water again thoroughly.

Watering - The easiest way to ensure your trees are getting enough water is to utilize soaker hoses or drip irrigation and the best time of day to water is in the early morning or late evening. Your tree should receive about 5 gallons of water for every caliper inch. Whether hand watering or irrigating, the water should reach the roots of your tree, which are about 4-6" deep. For the first 2 weeks, your tree will require daily watering. For weeks 3 to 10, you can water your tree every 2-3 days. For week 11 and beyond, water your tree once a week. New trees are considered established after 2-3 years and no longer need to be regularly watered after they are established. You can pause watering your trees while the ground is frozen or if temperatures drop below freezing.

Mulch - Mulching your new tree properly can help reduce weeds, regulate the temperature of your soil, and conserve water. There are many types of mulch you can use, but organic mulch is best because it contains microorganisms that can improve your soil health and promote growth. It is important to use the proper amount of mulch, over-mulching can lead to bacterial/fungal growth and reduced the amount of water available in the soil. Mulch should be distributed evenly to the extent of the drip line in a 2-3" layer. Do not mulch up to the trunk of the tree, instead, start the mulch outside of the root flare. You should replace your mulch once it is below the 2-3" height or once a year, whichever comes first.

Pruning - It is important to prune your tree when it is young, as this makes maintenance easier as the tree matures. Trees do not heal their wounds, they seal them, so making smaller cuts when the tree is young makes it easier for them to seal the wound. No more than 25% of the tree's canopy should be removed in one pruning session. When pruning, make sure your cuts are outside of the tree's branch collar and not directly flush with the trunk. Trees should have one distinct central leader. Start by removing any co-dominant stems that may be competing with the main trunk. Remove any broken or dead branches, crossing branches, or branches that turn inwards towards the trunk. Once the tree matures, it is recommended to consult an arborist to properly prune your tree. Please view this video on how to make proper pruning cuts: <https://www.flower-mound.com/2481/Tree-Topping>

Glossary

Central Leader: This is the single main trunk. Other smaller branches should extend off of this main trunk.

Girdling Root: This is a root that wraps fully or partially around a tree's trunk.

Shearing: Removing new growth from a tree to give it an unnatural shape.

Caliper: The diameter of a tree's trunk. This is measured at 6" above the soil for young trees and 4'5 feet for mature trees.

Drip Line: The imaginary circle on the ground below the outer edge of the tree's canopy. This is where a tree's critical roots are located.

Root Flare: The area where a tree's trunk ends and its root system begins.



Flower Mound Protected Tree List

Small Trees

Carolina Buckthorn

Rhamus Caroliniana *airginiana*

Tree Description: Bark is mostly smooth with raised lenticels. Bark typically has gray splotches throughout. Older trees will sometimes form small fissures in the bark.

Leaf: Leaves are glossy green, smooth, and have prominent veins.

Flowers: are bell shaped, pale yellow-green, and are very small.

Fruit: is a drupe smaller than 1" that starts as red and matures to black.



<http://texastreeid.tamu.edu/content/TreeDetails/?id=41&t=B>



https://www.wildflower.org/gallery/result.php?id_image=12550

Yaupon Holly

Ilex Vomitoria

Tree Description: Bark is a white-gray color and is smooth. Older trees may feel scaly.

Leaf: Leaves are small, leathery, and bright green.

Fruit: is a drupe that is ¼" and red in color

Flowers: are a green-white color



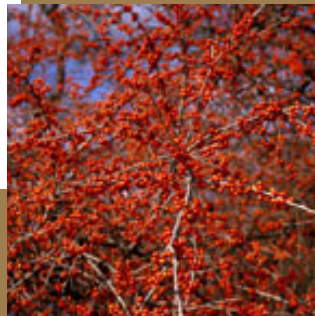
https://www.wildflower.org/plants/result.php?id_plant=ILVO



<http://texastreeid.tamu.edu/content/TreeDetails/?id=49>



<http://texastreeid.tamu.edu/content/TreeDetails/?id=47&t=P>



<https://aggie-hort.tamu.edu/ornamamentals/natives/ILEXDECIDUA.HTM>

Possumhaw

Ilex Deciduas

Tree Description: Bark is a gray color and smooth.

Leaf: Leaves are a long oval shape. Leaves are a dark green color that turn yellow in the fall.

Fruit: is a drupe that can be red, yellow, or orange.

Flowers: are white and small.

Eastern Redbud

Cercis canadensis

Tree Description: Description: Bark is a gray-brown color and rough. Trees are typically multi-trunked.

Leaf: Leaves are round, thick, and glossy. Leaves are slick and bright green.

Fruit: A flattened, many-seeded pod.

Flowers: are a purple-red color.



Jacampbellsnursery.com



<https://shop.arborday.org/eastern-redbud>

Texas Buckeye

Aesculus glabra var. arguta

Tree Description: Bark is gray-brown, thin and smooth.

Leaf: Leaves are shiny and dark green and turn yellow in the fall. Leaves are smooth on the top and fuzzy on the bottom.

Fruit: is leathery with blunt spines.

Flowers: are white or pale yellow.



<https://aggie-hort.tamu.edu/ornamentals/natives/AESCULUSGLABRA.HTM>



<https://dyckarboretum.org/plant-profile-run-texas-buckeye/>



<https://www.greenthumbsgarden.com/products/chickasaw-plum-tree>



https://www.wildflower.org/plants/result.php?id_plant=pran3

Chickasaw Plum

Prunus Agustifolia

Tree Description: Bark is a reddish color and smooth. Older trees may feel scaly and may become furrowed.

Leaf: Leaves are small and lance shaped. Leaves have small "teeth" on the end.

Fruit: is a drupe that is red or yellow in color.

Flowers: are white.

Mexican Plum

Prunus Mexicana

Tree Description: Description: Bark is a gray-brown color and rough. Trees are typically multi-trunked.

Leaf: Leaves are round, thick, and glossy. Leaves are slick and bright green.

Fruit: A flattened, many-seeded pod.

Flowers: are a purple-red color.



https://www.wildflower.org/plants/result.php?id_plant=PRME



<http://texastreeid.tamu.edu/content/TreeDetails?id=85>

Medium Trees

Cedar Elm

Ulmus crassifolia

Tree Description: Large forest type tree reaching 75 feet tall and a trunk 2-3 feet in diameter.

Leaf: Alternate and simple, 1-2.5 inches long, oval to elliptical in shape, and blunt at the tip. Dark green, shiny, and rough.

Flower: Hairy, short-stalked clusters in the leaf axils.

Fruit: An oval samara that is 0.25 to 0.5 inches long, seed is centered in the middle of the wing, deeply notched at the tip and hairy.



austintexas.gov



southernnativetrees.weebly.com



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texastreeid.tamu.edu



© S. Seabrook, UNC Herbarium

lbiblio.org

Winged Elm

Ulmus alata

Tree Description: Medium to large forest type tree, reaching 30-50 feet in height.

Leaf: Simple and alternate, 1.5-3.5 inches long.

Rough, thick texture and oval in shape with serrated edges, a pointed tip, and an asymmetrical leaf base. Dark green in color.

Flower: Small red flowers growing in clusters.

Fruit: Fruit is a flat and fuzzy green disk that turns red as maturity is reached. Oval in shape with silver hairs along the margin.

Slippery Elm

Ulmus rubra

Tree Description: Leaves are small, broader in the middle and end in a point. Bark is red-brown to gray-brown with grooves and is rough.

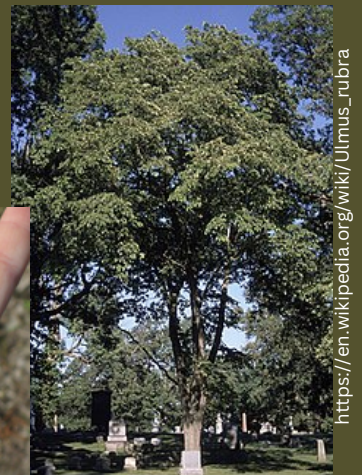
Leaf: Leaves are dark green, rough, and have "teeth" on the end.

Fruit: is a long seed surrounded by a flat wing,

Flowers: are green.



<https://www.foragingtexas.com/2006/04/slippy-elm.html>



https://en.wikipedia.org/wiki/Ulmus_rubra

Blackjack Oak

Quercus marilandica

Tree Description: is black-brown and rough, it resembles alligator skin.

Leaf: Leaves are bell shaped with 3-5 lobes. Leaves are dark green and shiny.

Fruit: is a yellow-brown acorn.

Flower: can be yellowish or reddish.



<http://texastreeid.tamu.edu/content/TreeDetails?id=99>



https://www.wildflower.org/gallery/result.php?id_image=24069

Persimmon Species

Diospyros texana

Tree Description: Bark is gray and smooth. The bark is also thin.

Leaf: Leaves are small, oval, and rounded at the tip

Fruit: is fleshy and turns from green to yellow or orange and purple when mature.

Flowers: are a purple-red color.



https://www.wildflower.org/gallery/result.php?id_image=42613



<http://texastreeid.tamu.edu/content/TreeDetails?id=38>

Chittamwood

Bumelia

Tree Description: Bark is gray-brown and rough. Branches have sharp spines at the end.

Leaf: Leaves are long and dark green.

Fruit: is a berry that is green and turns to purple or black as it ripens.

Flowers: are small and white in color.



<https://extension.okstate.edu/programs/plant-id/plant-profiles/chittamwood/>



<http://texastreed.tamu.edu/content/treedetails/?id=118>



texastreed.tamu.edu



namethatplant.net

Western Soapberry

Sapindus drummondii

Tree Description: Medium tree, reaching between 40-50 feet in height and a trunk 1-2 feet in diameter.

Leaf: The leaves are compound and alternately arranged with 4-9 pairs of leaflets that are 1.5-4 inches long and lanceolate in shape. They are pale yellow-green in color with prominent venation.

Flower: Flowers are yellow or white in color and found in spike clusters

Fruit: Fruit is a wide and leathery green berry that turns yellow, orange, or red as the tree matures.

Sweet Gum

Liquidambar styraciflua

Tree Description: Large tree, reaching over 100 feet in height and a trunk 3 feet in diameter.

Leaf: The leaves are distinct star shape. They are 4-7 inches long. They are shiny and dark green in color and aromatic if crushed.

Flowers: Male flowers are small and green and female flowers are round heads on a long stalk.

Fruit: Green in color and shaped like a spiked ball that is 1-1.5 inches in size.



forestry.about.com



texastreed.tamu.edu



Flower Mound Protected Tree List

Large Trees

Southern Live Oak *Quercus virginiana*

Tree Description: Large forest type tree, semi-ever green, reaching 50-80 feet in height and a trunk 5-6 feet in diameter.

Leaf: Simple and alternate, up to 6 inches long and 2 inches wide in an oblong shape. Leathery and green they do not lose their leaves in the winter.

Flower: Flowers are green, and catkins are up to 4 inches long.

Fruit: Acorns are $\frac{3}{4}$ inches long and dark in color with a pointed tip and a warty cap.



chasingtrees.net



selfsufficientculture.com

Chinkapin Oak

Quercus muehlenbergii

Tree Description: Medium to large tree, reaching 70 feet and a trunk three feet in diameter.

Leaf: Simple, alternate, oval to elliptical or oblong shape, four to six inches long and 1.5-2 inches wide, edges of the leaf are sharply toothed, but without bristle-tips the teeth are slightly recurved.

Flower: Separate male and female flowers appear in spring on the same tree. Male flowers are a yellowish catkin three to four inches long and the female flowers are less conspicuous and reddish.

Fruit: Acorns are 0.5 to 1.25 inches long, light to dark brown when ripe, enclosed by one-half its length by the bowl – shaped cup.



lowes.com



txtreefarm.com



Russeltreeexperts.com

BurOak

Quercus macrocarpa

Tree Description: Large forest type tree, reaching 60-80 feet in height and a trunk 3-4 feet in diameter.

Leaf: Leaves are large, 5-12 inches in size and deeply lobed with 5-9 lobes per leaf. Shiny and dark green in color.

Flower: Green catkins 1-3 inches long with many small flowers.

Fruit: Acorns are 0.75 to 1.25 inches long and 0.5 to 1 inch in diameter with a large cup that covers most of the nut.



Jacampbellsnursery.com

Shumard Red Oak

Quercus shumardii

Tree Description: Large forest type tree, reaching 100 feet in height and a trunk three feet in diameter.

Leaf: Simple and alternate, six to eight inches long and four to five inches wide with 5-9 pointed lobes. Glossy and dark green on top, light green and smooth beneath.

Flower: Male and female flowers borne in spring on the same tree- male flowers on catkins are six to seven inches long and the female flowers solitary or paired in the leaf axils.

Fruit: Acorns are 0.75 to 1.25 inches long and 0.5 to 1 inch in diameter and oval in shape



plantingtree.com



Jane Hill-marylandbiodiversity.com



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Texastreeid.tamu.edu

Texas Red Oak

Quercus texana

Tree Description: Medium forest type tree, reaching 30-50 feet in height.

Leaf: Simple and alternate, 3-4 inches long. Leathery and light green with 5-9 pointed lobes that narrow in the middle.

Fruit: Acorns are 1 inch long, red-brown in color and oval in shape.



Lowes.com

Water Oak

Quercus nigra

Tree Description: Medium forest type tree, reaching 50-70 feet in height

Leaf: Simple and alternate, 2-6 inches long. Dull blue-green with 1-3 lobes and wedge shaped.

Fruit: Acorns are ½ inches long and almost black in color with a shallow cap.



Texastreed.tamu.edu



Carolinanature.com



Inaturalist.org

American Elm

Ulmus americana

Tree Description: Large forest type tree, reaching 90 feet in height

Leaf: Simple and alternate, 4-6 inches long. Glossy and dark green on top, light green and smooth beneath. Oval in shape with a pointed tip and serrated edges.

Flower: Appear in small clusters, green in color in the axis of the leaves.

Fruit: Oval in shape with the seed in the center, surrounded by a wing with fuzzy edges



Jpfw.edu

Pecans

Carya species

Tree Description: Large forest type tree, reaching 70-100 feet in height.

Leaf: The leaves are alternate and compound, consisting of 9-15 lance shape leaflets that are 3-8 inches in size Their leaves are yellow-green in color.

Fruit: Edible nut with a green husk that turns brown and splits when it ripens in the fall, between 1-3 inches in size.



Pecansouthmagazine.com



Morningchores.com



Tblogspot.com

Hickories

Carya species

Tree Description: Large forest type tree, reaching between 60-80 feet in height.

Leaf: The leaves are compound and alternate with 3-17 serrated leaflets and a single leaf at the tip. They are light/dark green in color.

Fruit: An edible nut ½-3 inches long and round or oval in shape and green/ brown in color



hiltonpond.org

Black Walnut

Juglans nigra

Tree Description: Large tree, reaching up to 100 feet in height and a trunk 3 feet in diameter.

Leaf: The leaves are compound and alternately arranged with 15-23 leaflets that are 3-5 inches long with the largest leaves being in the middle. Yellow-green in color with fine teeth along the margin and pointed at the tip.

Flower: Male and female flowers are located on the same tree. Male flowers are yellow-green catkins 2-5 inches long. Female flowers are found in groups of 1 to 4 at the end of twigs.

Fruit: A large and round nut that is found alone or in pairs. It is enclosed in a leathery green husk that when split, holds a black nut that is enclosed by a thick, finely ridged shell.



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gardeningknowhow.com



texastreeid.tamu.edu



hiltonpond.org

Bald Cypress

Taxodium distichum

Tree Description: Large forest type tree, reaching over 100 feet in height and a trunk 8 feet in diameter.

Leaf: The leaves are single needles $\frac{1}{2}$ - $\frac{3}{4}$ inches long arranged in 2 rows on a singular green twig. Yellow-green in color with a feather-like texture and a pointed tip.

Fruit: Green cones that turn gray or brown when mature. $\frac{3}{4}$ -1 inches long that are solitary or in clusters on the end of the branch.

Magnolia

Magnolia grandiflora

Tree Description: Large tree, reaching over 90 feet in height and a trunk 4 feet in diameter. Southern Magnolia pictured.

Leaf: Simple and alternately arranged, 6-8 inches long. Oval in shape, leathery, glossy, and dark green in color.

Flower: Large, 6-8 inches wide and white with a splash of bright purple in the center.

Fruit: Fruit is an aggregation of red seeds, oval shaped, and appears as a cone that is 3-4 inches long.



texastreeid.tamu.edu



arundeltreeservice.meetatree.com

Pines

Pinus

Tree Description: Large tree, reaching 100 feet in height and a trunk 3 feet in diameter. Slash pine pictured.

Leaf: The needles appear in bundles of 2 or 3 and are 5-10 inches long. They are dark green in color and clustered to give a "foxtail" appearance.

Flower: Male conelets are purple-brown in color and female conelets are pink on short stalks.

Fruit: Fruit is a brown and glossy wooden cone about 1 inch long with thin scales and sharp, fine prickles.

White Ash

Fraxinus americana

Tree Description: Large forest type tree, reaching 100 feet in height and a trunk 3 feet in diameter.

Leaf: The leaves are opposite and compound, with 7-9 leaflets arranged pinnately and are 3-5 inches long, oval in shape, and pointed at the tip. Leaves are dark green in color.

Flower: Male and female flowers are found on separate trees. Flowers are red/purple in color. Male flowers are in dense clusters and female flowers are in open branched clusters.

Fruit: Fruit is a samara that is 1-2 inches long, in the shape of a canoe paddle with a notch on the tip.



Sciencephoto.com



Carolinanature.com



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texastreeid.tamu.edu



nwdistrict.ifas.ufl.edu

Green Ash

Fraxinus pennsylvanica

Tree Description: Large forest type tree, reaching 70 feet in height and a trunk 2 feet in diameter.

Leaf: The leaves are opposite and compound, with 7-9 leaflets arranged pinnately that are 2-6 inches long, oval or lance shaped, and pointed at the tip. Leaves are dark green in color.

Flower: Male and female trees are found on separate trees. Male flowers are in tight, dark clusters. Female flowers are found in loose clusters.

Fruit: Fruit is a flat, winged samara 1-1.5 inches long with the wing extending past the middle of the seed.

Texas Ash

Fraxinus texensis

Tree Description: Medium forest type tree, reaching 45 feet in height and a trunk 2 feet in diameter.

Leaf: The leaves are opposite and compound, with 5 leaflets arranged pinnately that are 1-3 inches long, and oval or round shaped. Leaves are dark green in color.

Flower: Male and female flowers are found on separate trees. Male flowers are dark purple and found in clusters near the end of twigs. Female flowers are found in loose clusters with new leaves.

Fruit: Green cones that turn gray or brown when mature. ¾-1 inches long that are solitary or in clusters on the end of the branch.



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Image: Keith Kanoff, Maine Forest Service, USA - Wikimedia Commons
leafyplace.com



<http://texastreeid.tamu.edu/content/TreeDetails?id=80>

Sycamore

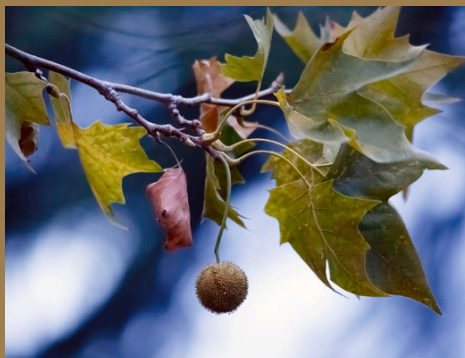
Plantanus occidentalis

Tree Description: Considered the largest deciduous tree in North America, sycamore in Texas can exceed 100 feet in height and 4 feet in diameter, with a stout trunk and large, spreading limbs that create an oval or round, spreading crown. Bark is smooth and gray-brown but will peel in patches and is white underneath.

Leaf: Leaves are bright green, have 3-5 lobes, and are coarsely toothed.

Fruit: is spherical and has many small-winged seeds.

Flower: Male and female flowers borne separately on the same tree as 0.5" round clusters on short stalks.



<https://www.treehugger.com/collecting-preparing-sycamore-seed-for-planting-1343423>

**Environmental Services
Urban Forestry**

2121 Cross Timbers Road
Flower Mound, TX 75028

Kayla Lipinski, Tree Preservation Technician
Phone: 972.874.6359
E-mail: kayla.lipinski@flower-mound.com



Environmental Conservation Commission



May 7, 2024
Town Hall
2121 Cross Timbers Road
Flower Mound, TX 75028

6:30 p.m.

DRAFT MINUTES

A. CALL TO ORDER

The Environmental Conservation Commission met in a regular meeting with the following members present:

Marilyn Lawson, Chair, Place 4
James Seastrom, Place 2
Laura Spurlock, Place 3
Alton Bowman, Place 5
Anna Athappan, Place 6
Clare Harris, Place 7
Juli Greenberg, Place 9 Alternate
Danielle Workman, Place 10 Alternate

with the following member(s) absent:

Anurag Sharma, Place 1
Emily Strittmatter, Place 8

constituting a quorum with the following members of the Town Staff participating:

Matthew Woods, Director of Environmental Services
Joe Whiteley, Environmental Review Analyst
Tyler Leverenz, Environmental, Programs Coordinator
Kayla Lipinski, Tree Preservation Tech

B. INVOCATION

Vice-chair James Seastrom gave the invocation and led the pledges.

C. PLEDGE OF ALLEGIANCE TO THE AMERICAN FLAG

D. PUBLIC COMMENT

The purpose of this item is to allow the public an opportunity to address the Board/Commission regarding any item on this agenda that is not a "Public Hearing." Issues regarding daily operational or administrative matters should first be dealt with by calling Town Hall at 972- 874-6000 during business hours. To speak to the Board/Commission during public comment, please fill out a comment form, which is located in the lobby of Town Hall.

In accordance with the Texas Open Meetings Act, the Board/Commission is restricted from discussing or acting on items not listed on the agenda.

- Speakers are limited to 3 minutes; a tone will sound at 30 seconds left and when time has expired, and times may be adjusted by the Chair depending on the number of speakers.
- Speakers must address their comments to the Board/Commission.
- Please state your name and address when speaking.

Names listed below don't necessarily reflect the order in which each person spoke and all addresses are located in Flower Mound unless otherwise indicated.

	Speaker name and address	Subject (as written on the form)
1.	Fred Vincent 3933 Bordeaux Cir	Tree Removal
2.	Bronz Peterson 5104 Saddle Dr	N/A

** Indicates person did not wish to speak*

E. STAFF/DIRECTOR REPORT

Update and status report related to environmental issues and events regulatory activates, and projects.

F. CONSENT ITEM(S)

This part of the agenda consists of non-controversial, or "housekeeping" items required by law. Items may be removed from Consent by any Commissioner by making such request prior to a motion and vote.

1. Minutes Approval - Consider approval of the minutes from the regular meeting of the Environmental Conservation Commission on April 2, 2024.

ACTION: Commission Memeber Juli Greenberg moved to approve F.1. as presented in the agenda caption. Commission Memeber Laura Spurlock seconded the motion.

AYES: Alton Bowman, Annaprabha Athappan, James Seastrom, Juli Greenberg, Laura Spurlock, Clare Harris

NAYS: None

ABSTAIN: None

RESULT: 6 : 0

G. REGULAR ITEM(S)

H. ADJOURNMENT–REGULAR SESSION

Chair Lawson adjourned the regular session at 6:48 PM

I. CALL WORK SESSION TO ORDER

Chair Lawson called the work session to order at 6:48 PM

J. WORK SESSION ITEM

1. Stormwater Management Program Update

Staff Presenter

Joseph Whiteley, Environmental Review Analyst, gave a presentation with the following items included and answered questions:

- Stormwater Program Overview
- SWMP Requirement
- SWMP Revisions
- SWMP Minimum Control Measures (MCMs)
- Standing vs. Acting SWMPs
- MCM #1-7

2. Conduct a review of the Environmental Conservation Commission 2024-2025 initiatives and objectives.

1. Conduct a review of the Environmental Conservation Commission initiatives and priorities for discussion at the May 16, 2024, joint work session with Town Council.

Presentation

Matt Woods, Director of Environmental Services, gave a presentation with the following items provided by the ECC. ECC members discussed, and the Environmental staff answered questions:

- May 16 Joint WS
- ECC Accomplishments
- 2024/2025 ECC Sustainability Initiative

- Native Plants
- Tree Canopy
- Multi-Family Recycling

K. SUBCOMMITTEE REPORT

Receive updates and status reports related to subcommittee activates and establish subcommittees as necessary.

L. COORDINATION OF FUTURE AGENDAS/MEETINGS

ECC members and staff discussed possible future agenda items.

M. ADJOURNMENT–WORK SESSION

Chair Lawson adjourned the work session meeting at 8:02 PM on May 7 and all were in favor



ENVIRONMENTAL CONSERVATION COMMISSION AGENDA K.1. WORK SESSION ITEM

DATE: June 4, 2024
FROM: Matthew Woods, Director of Environmental Services
ITEM: Discuss the ECC 2024-2025 initiatives and objectives.

BACKGROUND: This work session item provides the Environmental Conservation Commission (ECC) an opportunity to discuss the feedback received at the May 16, 2024, Town Council joint work session. The ECC's objectives and initiatives for 2024-2025 were presented to the Town Council and feedback was provided on the objectives. The 2024-2025 Sustainability Initiatives are attached.

The Town Council provided feedback to continue with the Certified Wildlife Habitat project with the objective for the Town to obtain certification in the future. Direction was also provided to review the tree ordinance and evaluate options to further enhance the Town's tree canopy and preserve smaller trees in addition to specimen trees. Direction was also provided to evaluate options for multi-family recycling and increase wildflower planting in the Town.

BOARD REVIEW/CITIZEN FEEDBACK: N/A

ALTERNATIVES: N/A

FISCAL IMPACT: N/A

LEGAL REVIEW: N/A

ATTACHMENTS:

1. ECC Sustainability Initiatives 2024-2025

DRAFT MOTION: No action is required by the ECC on this item.

ECC Sustainability Initiatives 2024/2025

MISSION STATEMENT: To promote responsible environmental stewardship by adopting policies and procedures that will enhance our quality of life and benefit our future communities while preserving our heritage.

Focus	(ID)	Action Items (Initiatives)	Performance Measure
Water Conservation and Stormwater Protection	24-2	Promote the use of native and drought tolerant landscaping	1. Native Plant Giveaways for Residents 2. Additional native plantings on Town Property - Help identify additional locations for native plantings 3. Encourage LISD to use native plants on FM campuses 5. Continue education and outreach to community on benefits of native plants
		Community outreach and Stream Team	On-going
		Water Conservation and Stormwater education through Utility Bill	On-going
		Drought Tolerant landscaping practices at Town Facilities	On-going
Energy and Emissions		Energy Audit/ increase energy efficiency of Town facilities	
		GHG inventory	
		Include green building principles for new Town projects	
Urban Forestry and Natural Environment	24-1	Develop and implement plan for increasing tree canopy	1. Tree Giveaways for Residents 2. Additional Tree Plantings on Town Property - Help identify additional locations for tree plantings (Strategic Initiatives) 3. Encourage LISD to add additional trees to FM campuses 5. Continue education and outreach to community on benefits of trees (especially natives)
		Development and Certification of Town Arboretum	On-going
		Community outreach on Open Spaces and tree health education	On-going
		Acorns to Oaks Growing Program	On-going
Waste Reduction and Recycling	24-3	Develop and make recommendation for Multi-Family recycling	
	22-1	Develop and make recommendation for Green Waste recycling	On-going
	22-2	Promote recycling at Town Facilities	On-going
		Create 'Green' purchasing policy for Town entities	
		Promote food waste reduction and the use of composting	
Outreach and Education	22-3	Promote Wildlife Habitat Program	On-going
		Environmental Education Program	On-going
		Environmental Outreach Events	On-going
		Environmental Services Video Series	On-going