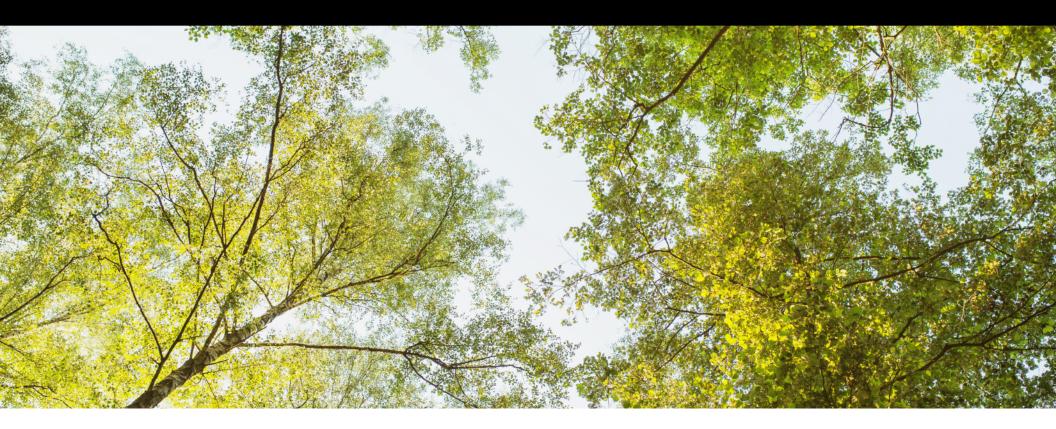


## Native Tree Approved List



Trees are like the lungs of the planet. They breathe in carbon dioxide and breathe out oxygen. Additionally, they provide habitat for birds and other wildlife. But that's not all trees do for us! Planting native trees in your landscape can reduce negative impacts of surface water runoff by intercepting and holding large volumes of precipitation on surface areas (ie: leaves, branches and trunks). The USDA reports that 100 mature trees can reduce runoff caused by rainfall by up to 100,000 gallons. Plant NOW for future generations!



# CONTAIN THE RAIN

Native Tree Approved List



#### American hornbeam Carpinus caroliniana

Tolerant of many conditions; will tolerate light shade. Can take full sun but may scorch in extremely dry locations under drought conditions.

Size: Small Soil: Moist **Exposure: Shade** Mature height: 30-ft Not allowed in Westwood Hills



black cherry Prunus Serotina

High salt tolerance. Dark green leaves turn yellow/red in the fall. White tassle-like flowers develop into small red fruits that then turn black in the fall.

Size: Medium Soil: Moist/Dry Exposure: Full/part sun Mature height: 45-ft



basswood Tilia americana

Very versitile tree with leaves turning yellow in fall. Small yellow flowers attract bees.

Size: Medium Soil: All **Exposure:** All Mature height: 60-ft



black gum Nyssa sylvatica

Beautiful tree known for lustrous green leaves in summer and consistent colorful red fall foliage. Indiscript flowers are an excellent nectar source for bees.

Size: Medium Soil: Wet/moist **Exposure:** Part sun Mature height: 50-ft Not allowed in Westwood Hills





Native Tree Approved List



bur oak Quercus macrocarpa

Very large growing tree that can reach heights up to 100-ft. High drought tolerance. Produces large acorns.

Size: Large Soil: All **Exposure: Full sun** Mature height: 75-ft Not allowed in Westwood Hills



downy serviceberry Amelanchier arborea

White star-shaped flowers in early spring; yellow to red fall color.

Size: Small Soil: Dry Exposure: Part sun/shade Mature height: 25-ft



downy hawthorn Crataegus mollis

White showy flowers give way to red fruits. Tree does have thorns.

Size: Small Soil: Moist/dry **Exposure:** Full sun Mature height: 20-ft



fringe tree Chionanthus virginicus

Has lovely flower fragrance from fringelike, fleecy flowers that hang in panicles from the branches. Very adaptable small flowering tree; tolerant of air pollutiona and adapts well in an urban setting.

Size: Small Soil: Moist Exposure: Full to part shade Mature height: 15-ft Not allowed in Westwood Hills



# CONTAIN THE RAIN

Native Tree Approved List



hackberry Celtis occidentalis

High drought tolerance. Yellow fall color with distinctive corky ridges on bark.

Size: Medium Soil: Moist/dry **Exposure: All** Mature height: 45-ft



Kentucky coffee tree Gymnocladus dioicus

Short trunk shade tree with open canopy and long cylindrical seed pods. Male trees will not produce seeds. Very tough tree.

Size: Large Soil: Moist/dry Exposure: All Mature height: 70-ft Not allowed in Westwood Hills



hophornbeam Ostraya virginiana

Leaves turn a yellowish color in fall and often drop early. Its fruits resemble hops used in the production of beer, hence its name.

Size: Small Soil: Moist/dry **Exposure:** All Mature height: 30-ft Not allowed in Westwood Hills



paw paw Asimina triloba

Deep red flower in April/May. Large leaves turning yellow in fall and fruits that resemble a banana.

Size: Small Soil: Moist Exposure: All Mature height: 25-ft



# CONTAIN THE RAIN

Native Tree Approved List



pecan Carya illinoinensis

Large shade tree with yellow fall color, nuts great for wildlife.

Size: Large Soil: Moist **Exposure: Shade** Mature height: 60-ft Not allowed in Westwood Hills



river birch Betula nigra

Features traditional bark of birch trees, with reddish brown bark pealing back revealing lighter. Leathery, diamond-shaped, medium to dark green leaves turn yellow in fall.

Size: Medium Not allowed in Westwood Hills Soil: Moist Exposure: Full/part sun Mature height: 60-ft



red bud Cercis canadensis

High drought tolerance. Clusters of bright pink blooms in spring and yellow fall color. Great understory tree.

Size: Small Soil: Moist Exposure: All Mature height: 25-ft



roughleaf dogwood Cornus drummondii

Bright red fall color and great clusters of white flowers in late spring.

Size: Small Soil: Moist/dry Exposure: Part sun/shade Mature height: 12-ft





Native Tree Approved List



shumard oak Ouercus shumardii

Shiny, dark green leaves often turn a brownish red in late fall. Acorns are usually not produced until the tree reaches 25 years.

Size: Large Soil: Moist Exposure: Full/part sun Mature height: 90-ft Not allowed in Westwood Hills



swamp white oak **Ouicus** bicolor

Interesting bark with dark green leaves. Faster growing for the oak family and good source of food for wildlife.

Size: Medium Soil: All **Exposure:** Part sun Mature height: 50-ft



sugar maple Acer saccahrum

Great shade tree with tremendous fall color. Produces small "helicopter" seeds.

Size: Medium Soil: Moist/dry Exposure: Full/part sun Mature height: 60-ft



western soapberry Sapindus drummondii

High drought tolerance. Glossy green leaves turning yellow in the fall. Produces yellow grape-like fruit.

Size: Small Soil: Moist/dry **Exposure:** Full sun Mature height: 25-ft





## Native Tree Approved List



**white oak** Quicus alba

Rounded lobed leaves and scaly bark. Very long life!

Size: Medium Soil: Moist Exposure: All Mature height: 60-ft



## **C**ITAIN THE RAIN



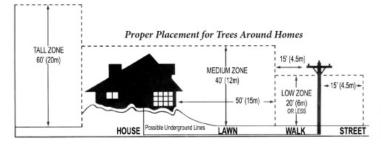
Sources: www.heartlandtreealliance.org and www.treesaregood.org



Ideally, trees are planted during the dormant season — in the fall after leaf drop or in early spring before budbreak. Weather conditions are cool and allow plants to establish roots in the new location before spring rains and summer heat stimulate new top growth. Healthy balled and burlapped or container trees; however, can be planted throughout the growing season if given appropriate care.

### Choose the Right Tree for the Right Space and Call DigRite

Be sure the tree you select is a good choice for where you wish to plant. Be aware of overhead utility lines, proximity to buildings and sidewalks, etc. Additionally, you must call DigRite at 811 to locate all underground utilities prior to digging. *Safety first!* 



The illustration indicates approximate tree placement in relation to utility lines.

#### Gather your Tools and Take Measurements Before Digging

Tools include a shovel, hand rake, measuring tape, and a pair of pruners. First measure the diameter of the container or root ball, then triple it - this is the diameter your hole should be dug. For example, if the diameter of the container is 14 inches, you will want the diameter of your hole to be 42 inches.



#### **Find the Root Flare**



The root flare, or trunk flare, is where the trunk expands at the base of the tree. You may need to remove 1-4 inches of topsoil to find it. Next, gently remove the tree from the container or remove the burlap. Use the measuring tape to measure from the base of the root ball to the root flare. This measurement is how deep your hole should be.





## Dig a Shallow, Broad Planting Hole

Holes should be three times wider than the root ball, but only as deep as the root ball. Digging a broad planting pit breaks up the surrounding soil and provides newly emerging tree roots room to expand.

## Inspect Root Balls for Circling or Girdling Roots

Straighten, cut, or remove them.

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#### Place the Tree at the Proper Height

Take care to dig the hole to the proper depth — and no more. The majority of a tree's roots develop in the top12 inches of soil. If the tree is planted too deep, new roots will have difficulty developing because of a lack of oxygen.

#### Straighten the Tree in the Hole

Before filling your hole (backfilling), have someone view the tree from several directions to confirm it is straight. Once planted, it is difficult to reposition the tree.

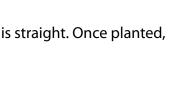
#### Fill the Hole with the Excavated Soil

Pack soil around the base of the root ball to stabilize it. If the root ball is wrapped, carefully cut and remove any fabric, plastic, string, and/or wire from around the trunk and root ball to prevent girdling and to facilitate root growth. Fill the remainder of the hole, firmly packing the soil to eliminate air pockets that may dry out roots. Further reduce air pockets by watering periodically while backfilling. Avoid fertilization at the time of planting.

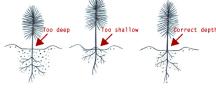
Sources: www.heartlandtreealliance.org and www.treesaregood.org

















## Stake the Tree, if Necessary

Studies show that trees establish more guickly and develop stronger trunk and root systems if they are not staked at the time of planting. Staking may be required; however, when planting on windy sites. One or two stakes used in conjunction with a wide, flexible tie material on the lower half of the tree will hold the tree upright and minimize injury to the trunk, yet still allow movement. Remove support staking and ties after the first year of growth.

### Mulch the Base of the Tree

Mulch is organic matter spread around the base of a tree to hold moisture, moderate soil temperature extremes, and reduce grass and weed competition. A 2- to 4-inch layer is ideal. More than 4 inches may cause a problem with oxygen and moisture levels. Piling mulch right up against the trunk of a tree may cause decay of the living bark.

### **Provide Follow-up Care**

Keep the soil moist, but not waterlogged. Water trees at least once a week, barring rain, and more frequently during hot, windy weather. If you get more than 1 inch of rain, you may not need to water that week. When the soil is dry below the surface of the mulch, it is time to water. You will need to use a screwdriver or other tool to dig below the mulch.

Other follow-up care may include minor pruning of branches damaged during the planting process. Prune sparingly after planting and delay necessary corrective pruning until a full season of growth in the new location has occurred.

Sources: www.heartlandtreealliance.org and www.treesaregood.org



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