

From: Jack Hale <jack.hale@comcast.net>
Sent: Tuesday, January 11, 2022 12:53 PM
To: Chambers, Aimee
Cc: Berschet, Paige; Tyler Napper
Subject: Re: Hearing tonight
Attachments: Tree list indicating removals.pdf; Zoning Permitted Trees - Adopted by Tree Advisory Commission - indicating changes.xlsx

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Hi again-

Here is the recommended list with a left-hand column indicating "added" with an orange highlight. A significant addition is the conifer/evergreen list added at the bottom. The other general change is the elimination of references just to genus (Magnolia, Linden, Hawthorn, Amelanchier, Crabapple, and Cherry). Not all species within these genera are suitable. This is particularly true of crabapples. The commission felt it was important to be specific, so the recommended list includes specific species as well as, in some cases, cultivars. We also wanted to make sure that trees were in the proper size class, specifically referring to magnolia species. I attached a copy of the old list with those genera highlighted

We also feel that the notes at the bottom of the recommended list are important. Our experience is that some tree plans have been created by people with limited knowledge, so we want to offer as much guidance as possible (hence, more specificity in the list and more detail in the notes).

We did not drop any trees from the earlier recommended list, but we indicated that steering away from maples and oaks is a good idea, and susceptibility to Asian Longhorn Beetle and Spotted Lanternfly should be a consideration in selecting trees. Since the list was created, we now are aware of the approach of Beech Leaf Disease which has led our City Forester to recommend not planting Beech trees at this time.

I can get into this stuff as needed during the meeting.

JH

Jack Hale

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Common Name	Scientific Name	Native	ALB	SLF	Notes (street tree suitability)
PERMITTED LARGE TREES					
Maple, Red	Acer rubrum	CT	ALB	SLF	x
Maple, Sugar	Acer saccharum	CT	ALB	SLF	x
Horse Chestnut	Aesculus hippocatanum		ALB		x
River Birch	Betula nigra	CT	ALB	SLF	single stem only
Pignut Hickory	Carya glabra	CT			drops nuts, good shade tree
Mockernut Hickory	Carya tomentosa	CT			drops nuts, good shade tree
Shagbark Hickory	Carya ovata	CT			drops nuts, good shade tree
Pecan	Carya illinoensis	US			drops nuts, good shade tree
Katsura Tree	Cercidiphyllum japonicum		ALB		okay as street tree
Common Persimmon	Diospyros virginiana	CT			drops fruit, tend to sucker
American Beech	Fagus grandifolia	CT			tend to sucker, susceptible to beech leaf disease, need adequate planting area
European Beech	Fagus sylvatica				susceptible to beech leaf disease, need adequate planting area (large root flare)
Ginkgo	Ginkgo biloba				Drops fruit, use males only
Coffee Tree	Gymnocladus dioicus	US			x
Black Walnut	Juglans nigra	CT		SLF	drops hardy nuts, not suitable for street tree, wind-firm
Sweet Gum	Liquidambar styraciflua	CT			drops fruit, try seedless varieties
Tulip Tree	Liriodendron tulipifera	CT			x
Cucumbertree		US			
Magnolia	Magnolia acuminata	US			x
Southern Magnolia	Magnolia grandiflora	US			
Amur Cork Tree	Phellodendron amurense				male only
London Planetree	Platanus acerifolia		ALB	SLF	Drops fruit, good street trees
Black Cherry	Prunus serotina	CT			
White Oak	Quercus alba	CT		SLF	drops nuts, good shade tree
Swamp White Oak	Quercus bicolor	CT		SLF	drops nuts, good shade tree
Scarlet Oak	Quercus coccinea	CT		SLF	drops nuts, good shade tree
Shingle Oak	Quercus imbricaria	US		SLF	drops nuts, good shade tree
Bur Oak	Quercus macrocarpa	CT		SLF	drops nuts, good shade tree
Pin Oak	Quercus palustris	CT		SLF	drops nuts, good shade tree
Willow Oak	Quercus phellos	US		SLF	drops nuts, good shade tree
Chestnut Oak	Quercus prinus	CT		SLF	drops nuts, good shade tree
English Oak	Quercus robur			SLF	drops nuts, good shade tree
Red Oak	Quercus rubra	CT		SLF	drops nuts, good shade tree
Shumard Oak	Quercus shumardii	US		SLF	drops nuts, good shade tree
Basswood/American		CT			
Linden	Tilia americana				x
Big Leaf Linden	Tilia platyphyllos				x
Crimean Linden	Tilia x euchora				x

Silver Linden	Tilia tomentosa		x
American Elm	Ulmus americana	CT ALB	okay as street tree
Zelkova	Zelkova serrata		okay as street tree

PERMITTED MEDIUM TREES

where appropriate, plant larger varieties/species

Trident Maple	Acer buergeranum	ALB	x
Hedge Maple	Acer campestre	ALB	x
European Hornbeam	Carpinus betulus		okay as street tree, can be pruned/shaped
Hackberry		US	birds love the fruit, might propagate quickly, okay as street tree
	Celtis laevigata	ALB	
Yellowwood	Cladrastis kentukea	US	x
Turkish Filbert	Corylus columna		
Cockspur Hawthorn	Crataegus crus-galli	CT?	x
English Hawthorn	Crataegus laevigata		x
Lavalle Hawthorn	Crataegus x lavalleyi		x
Washington Hawthorn	Crataegus phaenopyrum	US	x
Winter King Hawthorn	Crataegus viridis	US	x
Hardy Rubber Tree	Eucommia ulmoides		x
Honey Locust	Gleditsia triacanthos	US	x
Carolina Silverbell	Halesia carolina	US	
Goldenrain Tree	Koeleruteria paniculata	ALB	x
Bigleaf Magnolia	Magnolia macrophylla	US	
Black Gum	Nyssa sylvatica	CT	
Hophornbeam	Ostrya virginiana	CT	x
Persian Parrotia	Parrotia persica		
Amur Chokecherry	Prunus maackii		
Upright English Oak	Quercus robur fastigiata		x
Pagoda Tree	Styphnolobium japonicum		
Lacebark Elm	Ulmus parvifolia	ALB	x

PERMITTED SMALL TREES

Maple, Paperbark	Acer griseum	ALB	x
Downy Serviceberry	Amelanchier arborea	US	single stem only
Shadblow	Amelanchier canadensis	CT	single stem only
Apple Serviceberry	Amelanchier x grandiflora		single stem only
Allegheny Serviceberry	Amelanchier laevis	CT	single stem only
Hornbeam, American	Carpinus caroliniana	CT	
Redbud, Eastern	Cercis canadensis	US	x
Dogwood, Flowering	Cornus florida	CT	
Dogwood, Kousa	Cornus kousa		x
Korean Evodia	Evodia daniellii		x

Amur maackia	Maackia amurensis		x
Saucer Magnolia	Magnolia x soulangeana		
Star Magnolia	Magnolia stellata		
Sweetbay Magnolia	Magnolia virginiana	US	
Japanese Flowering Crabapple			
Crabapple	Malus floribunda		SLF x
Sargent Crabapple	Malus sargentii		SLF x
Candymint Crabapple	Malus sargentii "Candymint"		SLF x
Prairie Crabapple	Malus ioensis		SLF x
Adirondack Crabapple	Malus "Adirondack"		SLF x
Lancelot Crabapple	Malus "Lancelot"		SLF x
Lollipop Crabapple	Malus "Lollipop"		SLF x
Prairifire Crabapple	Malus "Prairifire"		SLF x
Professor Sprenger Crabapple	Malus "Professor Sprenger"		SLF x
Ruby Tears Crabapple	Malus "Ruby Tears"		SLF x
Sourwood	Oxydendron arboreum	US	x
American Red Plum	Prunus americana	US	x
Thundercloud Plum	Prunus cerasifera Thunderleaf		x
Okame Cherry	Prunus "Okame"		x
Sargent Cherry	Prunus sargentii		x
Japanese Flowering Cherry	Prunus serrulata		x
Higan Cherry	Prunus subhirtella		x
Common Chokecherry	Prunus virginiana	US	x
Yoshino Cherry	Prunus xydoensis		x
Stewartia, Japanese Lilac Tree	Stewartia pseudocamellia		
	Syringa reticulata		x

PERMITTED CONIFERS AND EVERGREENS

Atlantic White Cedar	Chamaecyparis thyoides	CT	x
Eastern Red Cedar	Juniperus virginiana	CT	x
American Holly	Ilex opaca	CT	x
Larch, tamarack	Larix laricina	CT	x
Dawn Redwood	Metasequoia glyptostroboides		x
Oriental Spruce	Picea orientalis		x
Austrian Black Pine	Pinus nigra		x
Eastern White Pine	Pinus strobus	CT	x
Umbrella Pine	Sciadopitys verticillata		
Bald Cypress	Taxodium distichum	US	x
Canadian Yew	Taxus canadensis	CT	x
Eastern Arborvitae	Thuja occidentalis	CT	x
Western Arborvitae	Thuja plicata	US	x

NOTES:

Natives - CT natives are indicated in green. Other US natives in yellow.

ALB - indicates trees that may be infested and damaged by Asian Longhorn Beetle, which is likely to appear in the Hartford area within a few years

SLF - indicates trees that may be infested and damaged by Spotted Lanternfly, which may appear in the Hartford area within a few years

In the "Notes" column, "x" indicates suitable for street use

Size classifications are a rough guide. References should be consulted to determine appropriateness for particular locations.

- UConn Plant Database - <http://hort.uconn.edu/>

- Dirr's Encyclopedia of Trees and Shrubs - Michael Dirr

- Manual of Woody Landscape Plants - Michael Dirr

- Guide to New Haven's Trees - https://uri.yale.edu/sites/default/files/publication/files/uri-guidetonewhaventrees-web_2.pdf

- Morton Arboretum Tree and Plant Selection Page - <https://www.mortonarb.org/trees-plants/tree-and-plant-selection>

This is not an exhaustive list of acceptable tree species. The City is supportive of planting trees that are suitable to their respective project sites, are known to be able to survive in the conditions found in Hartford, and are also known to, under normal circumstances not become a nuisance. Applicants and developers may propose other tree species, and such requests will be reviewed by the City or its agents (e.g. the City Forester, DDS, or P&Z).

The City is also strongly supportive of a diverse urban forest. Currently, Hartford's urban forest is largely dominated by maple and oak trees. Where appropriate, it is recommended that applicants and developers consider planting other types of trees.

6.0 SITEWORK & LANDSCAPE

General Maintenance Requirements

PERMITTED LARGE TREES

Maple, Red	<i>Acer rubrum</i>
Maple, Sugar	<i>Acer saccharum</i>
Horse Chestnut	<i>Aesculus hippocatanum</i>
Katsura Tree	<i>Cercidiphyllum japonicum</i>
Ginkgo	<i>Ginkgo biloba</i>
Coffee Tree	<i>Gymnocladus dioicus</i>
Sweet Gum	<i>Liquidambar styraciflua</i>
Tulip Tree	<i>Liriodendron tulipifera</i>
Magnolia	<i>Magnolia spp.</i>
London Planetree	<i>Platanus acerifolia</i>
Oak, White	<i>Quercus alba</i>
Oak, Swamp White	<i>Quercus bicolor</i>
Oak, Scarlet	<i>Quercus coccinea</i>
Oak, Shingle	<i>Quercus imbricaria</i>
Oak, Bur	<i>Quercus macrocarpa</i>
Oak, Pin	<i>Quercus palustris</i>
Oak, Willow	<i>Quercus phellos</i>
Oak, Chestnut	<i>Quercus prinus</i>
Oak, English	<i>Quercus robur</i>
Oak, Red	<i>Quercus rubra</i>
Linden, American	<i>Tilia americana</i>
Linden spp.	<i>Tilia spp.</i>
Elm, American	<i>Ulmus americana</i>
Zelkova	<i>Zelkova serrata</i>

PERMITTED MEDIUM TREES

Maple, Trident	<i>Acer buergeranum</i>
Maple, Hedge	<i>Acer capestre</i>
Hornbeam, European	<i>Carpinus betulus</i>
Hackberry	<i>Celtis laevigata</i>
Yellowwood	<i>Cladrastis kentukea</i>
Turkish Filbert	<i>Corylus colurna</i>
Hawthorn	<i>Crataegus spp.</i>
Hardy Rubber Tree	<i>Eucommia ulmoides</i>
Honey Locust	<i>Gleditsia triacanthos</i>
Goldenrain Tree	<i>Koeleruteria paniculata</i>
Magnolia	<i>Magnolia spp.</i>
Black Gum	<i>Nyssa sylvatica</i>
Hophornbeam	<i>Ostrya virginiana</i>
Fastigate Oak	<i>Quercus fastigiata</i>
Pagoda Tree	<i>Styphnolobium japonicum</i>
Elm, Lacebark	<i>Ulmus parvifolia</i>

PERMITTED SMALL TREES

Maple, Paperbark	<i>Acer griseum</i>
Serviceberry	<i>Amelanchier spp.</i>
Hornbeam, American	<i>Carpinus caroliniana</i>
Redbud, Eastern	<i>Cercis canadensis</i>
Dogwood, Flowering	<i>Cornus florida</i>
Dogwood, Kousa	<i>Cornus kousa</i>
Amur maackia	<i>Maackia amurensis</i>
Crabapple Species	<i>Malus spp.</i>
Sourwood	<i>Oxydendron arboreum</i>
Plum, Purpleleaf	<i>Prunus cerasifera</i> Thunderleaf
Cherry Species	<i>Prunus spp.</i>
Stewartia, Japanese	<i>Stewartia pseudocamellia</i>
Lilac Tree	<i>Syringa reticulata</i>

Figure 6.4-D Permitted Tree Types