

CITY OF HARTFORD
SPECIFICATIONS FOR PLANTING STREET TREES

a) Trees are to be purchased only from nurseries in northern regions which are compatible with the climate of the City of Hartford. All plant material shall be true to name and type, and first-class representatives of their species or variety. They shall have normal, well-developed branches, be healthy, vigorous plants free from disfigurements. Either bare root or balled and burlaped trees are acceptable. All plant material shall conform to American Standard for Nursery Stock.

b) The street trees shall be centered between the back of the curb and the street side of the existing or future sidewalks. The trees shall also be located five (5) feet from all sewer and water laterals, and ten (10) feet from driveways, light poles and fire hydrants. No street trees shall be planted within 35 feet of any street corner, measured from the point of nearest intersecting curb lines.

c) All street trees planted shall be of minimum size of 1-3/4" to 2" I caliper. Said caliper reading shall be taken 6" above the ground surface.

d) The size for the tree installation hole shall be a minimum of 36" in diameter. Trees shall be planted with the root collar at surface level. For balled trees, the hole shall be 18" larger than the largest diameter of the ball and no deeper than the ball.

e) Soil for backfilling around roots and/or root balls shall be the existing soil from the excavation. Where existing soil is rocky and poor quality, the local brown topsoil may be used. Soil shall be pulverized and screened. All material dug from the plant holes and not used shall be removed from the site and disposed of. Immediately after planting, soil around roots and balls shall be thoroughly watered.

f) At the time of planting, trees shall be pruned to remove dead, broken, or diseased branches or cross branches that may rub. As much of the crown as possible shall be maintained to create food for the tree. Trees shall appear symmetrical in shape and appearance.

g) Persons installing street trees shall take all necessary precautions to minimize the damage to existing lawns. Any damage to existing lawns shall be repaired by placing topsoil and seed in the damaged area.

h) Upon completion of planting, individual plant holes shall be outlined with a shoulder of soil placed outside of rim of holes to form a saucer. Wood mulch material shall be placed to cover disturbed area to a minimum depth of three (3) inches, but there will be an air gap 1" wide around the trunk with no mulch.

i) Street trees shall be staked within one week of planting, unless the City Forester waives this due to size or species, with a minimum of two wood posts that have a minimum diameter of 2-1/2 inches. The minimum length of the posts shall be the depth of the bore plus one-half the height of the tree. The posts shall be installed at least one foot outside the diameter

of the tree-planting hole. The tree shall be connected to the posts with a 2" x 1/16" strap of such design so as not to damage the tree. The tree shall be planted as plumb as possible and the contractor shall maintain tree plumbness throughout the guarantee period. All stakes shall be removed within one year of planting.

j) Street trees planted between June 15 and September 15 shall be balled and burlaped.

k) All installation must be inspected by the City Forester, or a representative. If, in the sole opinion of the City Forester, additional remedies are needed to assure the stocking and maintenance of healthy tree specimens, additional remedies may be required.

l) Street trees installed by the City under these specifications shall be guaranteed for one (1) growing season. Replacement trees under this section shall also be guaranteed for one (1) growing season. Replacement of trees beyond this two (2) year period shall be the responsibility of the property owner.

2011 CITY OF HARTFORD STREET TREE SPECIES RECOMMENDATIONS

This list is provided as a guide to some of the most appropriate trees for urban settings in USDA Hardiness Zone **5a** for the City of Hartford. There is no single perfect tree. These species have been selected for use in our demanding street tree situations. There is a much larger group of plants that would grow very well in the City of Hartford and should be considered for other landscape uses (parks, etc.). Before selecting any particular species or variety, each site should be evaluated as to: rooting space, soil texture, soil pH, drainage, exposure, overhead wires, and surrounding buildings (crown space). The most important thing to remember is to plant the right tree in the right place.

KEY: () = hardiness zone * = Wisconsin Native

SMALL TREES (Less than 30')

Suitable for tree lawns 4-6' wide, under wires, and box-outs. Plant with a 35 - 45' spacing.

<u>COMMON NAME</u>	<u>GENUS & SPECIES</u>	<u>VARIETY</u>
Cherry,		
Amur chokecherry	Prunus maackii (2b)	
European Bird Cherry	" padus (3b)	
Crabapples,	Malus sp. (4a)	Adams [?]
	[?] = slightly susceptible	Adirondack [?]
	to apple scab	Amberina
		bacata Jackii
		Beverly
		Bobwhite
		Donald Wyman
		Harvest Gold
		Indian Summer [?]
		Japanese flowering
		Liset
		Louisa
		Prairiefire
		Prairie Maid
		Professor Sprenger [?]
		Profusion [?]
		Red Bud (zumi var.
		calocarpa)
		Red Jewel
		Sargent
		Spring Snow
		Sugar Tyme
		Inermis
* Hawthorn, Cockspur	Crataegus crus-galli (4a)	
Hawthorn, Washington	" phaenopyrum (4a)	
Hawthorn, Winter King	" viridis (4a)	less thorns
* Ironwood	Ostrya virginiana (3a)	
Lilac, Japanese Tree	Syringa reticulata (4a)	Ivory Silk
		Snowcap
		Summer Snow
Magnolia	Magnolia sp. (5a)	Dr. Merrill & Kobus

Small Trees (cont.)

<u>COMMON NAME</u>	<u>GENUS SPECIES</u>	<u>VARIETY</u>
Maple, Amur	Acer ginnala (3a)	
Maple, Tatarian	Acer tataricum (3a)	
Mountain Ash, Korean	Sorbus alnifolia (4a)	
Pear, Ornamental	Pyrus calleryana (5a)	Autumn Blaze
	" ussuriensis (3b)	Prairie Gem
* Serviceberry, Downy	Amelanchier arborea (5a)	
Serviceberry, Apple	" x grandiflora (4a)	
* Serviceberry, Allegheny	" laevis (5a)	
Smoketree, American	Cotinus obovatus (5a)	
Turkish Filbert	Corylus columna (5a)	

MEDIUM TREES (30' - 45')

Suitable for tree lawns 6 to 8' wide. Plant with a 45' spacing.

<u>COMMON NAME</u>	<u>GENUS SPECIES</u>	<u>VARIETY</u>
Alder, Black	Alnus glutinosa (3a)	
Birch, River	Betula nigra (4a)	
Cherry, Sargent	Prunus sargentii (5a)	Accolade
		Columnar
Corktree, Amur	Phellodendron sp. (4a)	Macho
		Eye Stopper
Honeylocust, Sunburst	Gleditsia triacanthos 'Impcole' (3a)	Imperial
Hornbeam, European	Carpinus betulus (4a)	
Horsechestnut, Ruby Red	Aesculus x carnea (5a)	Briotti
		O'Neill
Horsechestnut, White	" hippocastanum (4a)	Baumanii
Maple, Hedge	Acer campestre (5a)	
Maple, Miyabe	Acer miyabei 'Morton' (5a)	State Street
Maple, Shantung	" truncatum (4a)	Norwegian Sunset
		Pacific Sunset
Ohio Buckeye	Aesculus glabra (3a)	
Pear, Ornamental	Pyrus calleryana (5a)	Aristocrat
		Cleveland
		Select
		Redspire

(limit use)

TALL TREES (45'+)

Suitable for tree lawns at least 6' wide. Plant with a 50' spacing.

<u>COMMON NAME</u>	<u>GENUS SPECIES</u>	<u>VARIETY</u>
Baldcypress	Taxodium distichum (5a)	
* Coffeetree, Kentucky	Gymnocladus dioica (3b)	Expresso
Cucumbertree	Magnolia acuminata (4b)	
Elms (hybrid)	Ulmus sp. (4a)	Accolade
		Cathedral
		Homestead
		New Horizon
		Regal

Tall Trees (cont.)

<u>COMMON NAME</u>	<u>GENUS SPECIES</u>	<u>VARIETY</u>
Ginkgo	Ginkgo biloba (4b)	Autumn Gold Magyar Princeton Sentry
* Hackberry	Celtis occidentalis (3a)	Prairie Pride
* Honeylocust	Gleditsia triacanthos (3a)	Halka Shademaster Skyline Sunburst
Katsura Tree	Cercidiphyllum japonicum (4b)	
Linden, American	Tilia americana (4a)	Redmond Sentry
Linden, Crimean	" x euchlora (4b)	
Linden, Littleleaf	" cordata (4a)	Chancellor Corinthian Fairview Glenleven Green Mtn. Sterling
Linden, Silver	" tomentosa (4b)	has acorns
Oak, English	Quercus robur (5a)	has acorns
* Oak, Swamp White	" bicolor (4a)	Bloodgood
Planetree, London	Platanus x acerifolia (5a)	
Redwood, Dawn	Metasequoia glyptostroboides (5a)	

5. Unsuitable Plantings

The following varieties of trees are unsuitable for planting:

UNDESIRABLE STREET TREES

<u>Species</u>	<u>Comments</u>
Ash, Green	Emerald Ash Borer Threat
Ash, White	Emerald Ash Borer Threat
Beech-Fagus	Too large, root sensitivity
Birch, Paper-Betula papyrifera	Intolerant of stress
Buckthorn-Rhamnus	Very invasive
Catalpa-Catalpa speciosa	Messy fruit
Cottonwood-Populus deltoides	Weak, messy cotton, too large
Elm, American-Ulmus americana	Disease prone
Siberian-Ulmus pumila	Weak wood
Fir-Abies sp.	Clearance problems
Horsechestnut-Aesculus sp.	Messy fruit
Locust, Black-Robinia pseudoacacia	Insects, borers on poor sites
Maple, Silver-Acer saccharinum	Weak wood, weak limb attachment
Sugar-Acer saccharum	Very intolerant of road salt
Box Elder-Acer negundo	Weak wood, weak limb attachment
Maple, Norway-Acer platanoides	Exceeds recommended street tree population

UNDESIRABLE STREET TREES (Continued)

Species

Maple, Freeman-Acer x freemanii
Mulberry-Morus alba
Pines-Pinus sp.
Poplar, Lombardy & any variety
Russian Olive-Elaeagnus angustifolia
Spruce-Picea sp.
Sycamore-Platanus sp.
Tree-of-Heaven-Ailanthus altissima
Willow-Salix sp.

Comments

Exceeds recommended street tree population
Messy fruit
Clearance problems
Weak wood, short lived
Disease problems, weak wood
Clearance and disease problems
Too large, messy, disease prob.
Weak wood
Too large, messy