

# Suggested Tree Planting List for ALB Quarantine Zones and Surrounding Areas

Based on a November 2004 Document from New Jersey Forest Service)

<u>Plant Name</u>	<u>Notes</u>
<b>Gray Dogwood</b> ( <i>Cornus racemosa</i> )	Small tree that grows 10-15' tall; Suitable for planting under overhead electric lines; Tolerates drought and salt; Adaptable to varying soil moisture and sun exposure; Requires little maintenance once established; Tree form cultivars are recommended over multi-stem varieties for street plantings; Recommended cultivars include Cuyahoga and Ottawa
<b>†Crabapple</b> ( <i>Malus spp.</i> )	Generally a small tree growing 15-25' tall; Suitable for small planting spaces with overhead electric lines; Adaptable to many soil types but grows best in moist, well-drained soils; Fruits and flowers develop best in full sun; Tree form plants are recommended for street plantings; Numerous cultivars exist that vary in foliage color, fruit and flower production, and resistance to diseases; Some recommended cultivars include Adirondack, Centurion, Harvest Gold (tolerant of aerial salt), Prairifire, Purple Prince, Snowdrift, and Sugar Tyme
<b>†Hawthorn</b> ( <i>Crataegus spp.</i> )	Small tree that grows 15-35' tall; Suitable for small planting spaces with overhead electric lines; Tolerates a wide range of urban conditions; Tree form cultivars are recommended over multi-stem varieties for street plantings; Recommended reduced-thorn cultivars include Thornless Cockspur Hawthorn ( <i>C. crus-galli</i> var. <i>inermis</i> ) and Crimson Cloud English Hawthorn ( <i>C. laevigata</i> 'Superba'); Species with thorns include Vaughn Hawthorn ( <i>C.</i> 'Vaughn') and Washington Hawthorn ( <i>C. phaenopyrum</i> )
<b>Serviceberry</b> ( <i>Amelanchier sp.</i> )	Small tree that grows 20-30' tall; Suitable for small planting spaces with overhead electric lines; Prefers well-drained, moist, acid soils of medium texture; Tree form cultivars are recommended over multi-stem varieties for street plantings; Recommended cultivars include Robin Hill, Autumn Brilliance, Spring Glory, and Reflection
<b>†Eastern Redbud</b> ( <i>Cercis canadensis</i> )	Small tree that grows 20-30' in height; Suitable for planting under overhead electric lines; Adaptable to a wide range of site conditions including varying soil pH, sun exposure, and soil moisture except excessive lack of water or excessive moisture; Tree form cultivars are recommended over multi-stem varieties for street plantings; Recommended cultivars include Royal White, Dwarf White (grows 8-10' tall), Northland Strain, and Forest Pansy

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<b>Eastern Redcedar cultivars</b> ( <i>Juniperus virginiana</i> )	Height varies with cultivars, but in general do not exceed heights of 30'; Suitable for small planting spaces with overhead electric lines; Grows best in moist, well-drained soils but tolerates poor soils and varying soil pH; Prefers full sun; Do not plant near crabapples, hawthorns, or serviceberries because junipers may serve as an alternate host for rust diseases; Some cultivars include Emerald Sentinel and Manhattan Blue
<b>*Magnolia</b> ( <i>Magnolia spp.</i> )	Height varies with species but in general reaches 20-40' in height; Tree form plants are recommended for street plantings; Adequate width space required for wide branching form; Some species are sensitive to spring frost; Trees valued for their attractive flowers and foliage; Some recommended cultivars include Galaxy Magnolia ( <i>M. liliiflora</i> x <i>M. sprengeri</i> ), Oyama Magnolia ( <i>M. sieboldii</i> ), Yulan Magnolia ( <i>M. denudata</i> ), and Saucer Magnolia ( <i>M. x soulangiana</i> )
<b>†European Hornbeam</b> ( <i>Carpinus betulus</i> )	Medium tree that grows 35-40' tall; Adaptable to a wide range of site conditions including varying soil moisture, soil pH, and sun exposure; Tolerates urban conditions including pollution; Fastigiata is a recommended cultivar due to its upward branching and compact crown form
<b>†Callery Pear</b> ( <i>Pyrus calleryana</i> )	Height varies with cultivars, but in general grows 30-45' tall; Tolerates urban conditions including pollution, drought and variable soil conditions; Recommended cultivars include Aristocrat, Autumn Blaze, Capital, Chanticleer, and Redspire; Bradford is <i>not</i> recommended due to structural instability; Dwarf varieties that grow 15-20' in height are better suited for planting under electric lines, including Westwood ( <i>P. fauriei</i> ), Southworth ( <i>P. betulaefolia</i> ), and Whitehouse
<b>†Goldenraintree</b> ( <i>Koelreuteria paniculata</i> )	Medium tree that grows 30-40' tall; Adaptable to a wide range of soils; Tolerates urban stresses including drought, heat, wind, and air pollution; Prefers full sun; Transplants well
<b>*American Yellowwood</b> ( <i>Cladrastis kentukea</i> )	Medium tree that grows 30-50' tall; Suitable for large planting spaces with no overhead interference; Grows best in well drained, alkaline soil; Prefers full sun; Sensitive to drought, compaction, canker, and <i>Verticillium</i> wilt
<b>Swiss Stone Pine</b> ( <i>Pinus cembra</i> )	Medium tree that grows 30-40' in height but can reach 70'; Suitable for planting spaces with no overhead interference; Prefers well-drained, loamy soil with slight acidity; Grows best in open areas with full sun
<b>Carolina Silverbell</b> ( <i>Halesia tetraptera</i> )	Medium tree that grows 30-40' tall; Prefers moist, well-drained, slightly acidic soils; Grows best in partial shade but will survive in full sun; Resistant to most serious pests; Various cultivars exist that offer variation in foliage and flower color

\* May not be suitable for planting along streets

† Fall Dig Hazard; May not be available from October -December

<b><u>Plant Name</u></b>	<b><u>Notes</u></b>
† <b>American Hophornbeam</b> ( <i>Ostrya virginiana</i> )	Medium tree that grows 30-40' tall; Grows best in moist, well-drained soils and full to partial sun; Sensitive to salt and other urban stresses
*† <b>Amur Corktree</b> ( <i>Phellodendron amurense</i> )	Medium tree that grows 35-45' tall; Tolerates a wide range of soil conditions and drought; Does well in city plantings where there is adequate space for root growth; Fruitless male trees are available
<b>Stewartia</b> ( <i>Stewartia spp.</i> )	Medium tree that grows 20-40' tall; May be difficult to transplant; Prefers moist, acidic soils; Grows best in full sun and partial shade during the hottest part of the day; Does not tolerate drought; Known for its fall color, flowers, and flaky bark; Recommended species include Japanese Stewartia ( <i>Stewartia pseudocamellia</i> ) and Korean Stewartia ( <i>Stewartia koreana</i> )
† <b>Oak</b> ( <i>Quercus spp.</i> )	Height varies with species, but in general, oaks are large trees that require large spaces to grow; Heights can vary from 40-80'; Species that tolerate urban conditions include Sawtooth Oak ( <i>Q. acutissima</i> ), Swamp White Oak ( <i>Q. bicolor</i> ), Shingle Oak ( <i>Q. imbricaria</i> ), Bur Oak ( <i>Q. macrocarpa</i> ), Pin Oak ( <i>Q. palustris</i> ), Willow Oak ( <i>Q. phellos</i> ), English Oak ( <i>Q. robur</i> ), Northern Red Oak ( <i>Q. rubra</i> ), and Shumard Oak ( <i>Q. shumardii</i> )
<b>Turkish Filbert</b> ( <i>Corylus colurna</i> )	Tall tree that grows 45-60' tall; Suitable for large spaces with no overhead interference; Tolerates a wide range of site conditions; Low maintenance once established; Prefers full sun and does best when watered for the first year after planting
<b>Serbian Spruce</b> ( <i>Picea omorika</i> )	Tall tree that grows 50-60' in height but can reach 100'; Suitable for planting spaces with no overhead interference; Prefers deep, moist, well-drained soil and semi-shade but will adapt to full sun; May tolerate air pollution
† <b>Silver Linden</b> ( <i>Tilia tomentosa</i> )	Tall tree that grows 50-70' tall; Wide branching crown makes this tree best suited for large planting spaces; Tolerates heat, drought, and pollution; Adaptable to varying soil pH, soil compaction, and varying sun exposure; Transplants readily; Grows best on deep, fertile soils; Recommended cultivars include Green Mountain and Sterling
<b>Littleleaf Linden</b> ( <i>Tilia cordata</i> )	Tall tree that grows 50-80' tall; Suitable for large spaces with no overhead interference; Grows best on deep, fertile soils; Adaptable to varying soil pH, soil compaction, and varying sun exposure; Somewhat sensitive to drought and salt; Transplants readily; Recommended cultivars include Chancellor, Corinthian, Fairview, Glenleven, and Greenspire

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<b><u>Plant Name</u></b>	<b><u>Notes</u></b>
<b>Ginkgo</b> ( <i>Ginkgo biloba</i> )	Tall tree that grows 50-80' tall; Suitable for spaces with no overhead interference; Very tolerant of pollution and other urban stresses; Tolerates a wide range of soils; A fruitless variety, or male clone, is recommended due to strong fruit odor; Recommended cultivars include Autumn Gold, Lakeview, Magyar, and Princeton Sentry
<b>†Japanese Zelkova</b> ( <i>Zelkova serrata</i> )	Tall tree that grows 50-80' tall; Suitable for spaces with no overhead interference; Prefers moist, deep soil; Tolerant to pollution; Adaptable to varying soil pH; Transplants readily; Once established, very drought and wind tolerant; Recommended cultivars include Green Vase and Village Green
<b>Upright White Pine</b> ( <i>Pinus strobus</i> Fastigiata)	Tall tree that grows 50-80' in height and can reach 150'; Suitable for large, narrow planting spaces due to its upright form; Prefers moist, well-drained soils but will tolerate a range of moisture levels; Intolerant of air pollutants and salts; Susceptible to white pine weevil damage
<b>Honeylocust</b> ( <i>Gleditsia triacanthos</i> )	Tall tree that grows 60-70' tall; Suitable for large spaces with no overhead interference; Tolerates salt, heat, drought, compaction and other urban conditions; Transplants readily; Grows best in full sun; Thornless and reduced-fruiting varieties include Moraine, Shademaster, and Skyline
<b>*Kentucky Coffeetree</b> ( <i>Gymnocladus dioicus</i> )	Tall tree that grows 60-75' tall; Suitable for large spaces with no overhead interference; Tolerates urban conditions including salt and drought; Requires full sun; Male trees are free of fruit pods
<b>Leyland Cypress</b> ( <i>x Cupressocyparis leylandii</i> )	Tall tree that grows 60-70' in height and can reach 100'; Suitable for planting spaces with no overhead interference; Adaptable to wide range of soil but does not tolerate poor drainage; Tolerates salt; Grows best in full sun; Numerous cultivars exist that vary in foliage color, branching pattern, growth rate, and height growth
<b>†American Sweetgum</b> ( <i>Liquidambar styraciflua</i> )	Tall tree that grows 60-75' tall; Suitable for large planting spaces with no overhead interference; Must provide adequate space for root establishment and growth; Grows best in moist, slightly acid soil and full sun; Many cultivars exist that offer variation in foliage color and plant form; A fruitless cultivar, 'Rotundiloba' may be better suited in areas where fruit litter is undesirable
<b>†Baldcypress</b> ( <i>Taxodium distichum</i> )	A tall deciduous conifer that grows 60-80' in height; Suitable for large spaces with no overhead interference; Grows best on deep, moist, sandy loam soils but is adaptable to various soil moisture conditions; Prefers acid soil and full sun; Relatively free of diseases and insects; Cultivars well suited for narrow spaces include Shawnee Brave and Prairie Sentinel

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<b><u>Plant Name</u></b>	<b><u>Notes</u></b>
<b>Dawn Redwood</b> ( <i>Metasequoia glyptostroboides</i> )	A tall deciduous conifer that grows 65-85' tall; Grows fast; Suitable for large spaces with no overhead interference; Resistant to air pollution; Transplants readily; Prefers full sun and acid soils
<b>*†Tulip Tree</b> ( <i>Liriodendron tulipifera</i> )	Tall, fast growing tree that reaches 90-120' in height; Grows best in a large open space with no overhead interference; Prefers full sun and well-drained, moist soils
<b>*†Blackgum/Tupelo</b> ( <i>Nyssa sylvatica</i> )	Tall tree that grows 60-70' tall; Suitable for large planting spaces with no overhead interference; Grows in well-drained and poorly drained soil but prefers acid soil with full sun; Sensitive to compaction; Tolerates some salt; Does best when watered for the first year after planting; Brilliant fall color
<b>†Mountain Silverbell</b> ( <i>Halesia monticola</i> )	Tall tree that grows 60-80' tall; Similar to <i>H. tetraptera</i> , but has larger flowers and fruit; The variety <i>vestita</i> has a tendency to maintain a central leader, making the tree suitable for street planting sites with no overhead interference
<b>*†Beech</b> ( <i>Fagus spp.</i> )	Tall, large tree that grows 50-60' tall; Suitable for large planting spaces with no overhead interference; Prefers moist, well-drained, acidic soil; Does not tolerate wet or compacted sites; Grows best in full sun but will survive in shady areas; American beech ( <i>F. grandifolia</i> ) has no cultivars but is an impressive tree when planted in large areas like parks; European beech ( <i>F. sylvatica</i> ) has many cultivars including 'Asplenifolia' (fern-like leaves), 'Atropunicea' (purple leaf), 'Pendula' (weeping branches), and 'Rotundifolia'

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# DO NOT PLANT THESE HOST TREES ATTACKED BY ALB

	MAPLE ( <i>Acer spp.</i> )    HAC	KBERRY ( <i>Celtis spp.</i> )
	HORSECHESTNUT ( <i>Aesculus spp.</i> )	ASH ( <i>Fraxinus spp.</i> )
	WILLOW ( <i>Salix spp.</i> )    SYCAM	ORE / PLANETREE ( <i>Platanus spp.</i> )
	ELM ( <i>Ulmus spp.</i> )    MOUNT	AIN ASH ( <i>Sorbus spp.</i> )
BIRCH	( <i>Betula spp.</i> )    POPLAR	( <i>Populus spp.</i> )
	MIMOSA ( <i>Albizia julibrissin</i> )	KATSURA ( <i>Egkkrj {mwo 'lcrqpkewo }</i> )

## References

Dirr, Michael A. 1998 (5<sup>th</sup> ed.). Manual of Woody Landscape Plants – Their Identification, Ornamental Characteristics, Culture, Propagation and Uses. Gerhold, Henry D. (ed.), Wandell, Willet N. (ed.), and Norman L. Lacasse. 1993. Street Tree Fact Sheets. Penn State College of Agricultural Sciences. Martine, Christopher T. 2003(5<sup>th</sup> ed.). Trees Of New Jersey and the Mid-Atlantic State. New Jersey Forest Service Forest Resource Education Center. Sawyer, Alan. 2003 May 8 revision. Annotated Categorization of ALB Hosts. USDA – APHIS – PPQ, Otis Plant Protection Laboratory.