

# Shade Trees for Iowa

As the emerald ash borer (*Agrilus planipennis*) continues to infest and kill native ash species in 24 states and two Canadian provinces, nursery and landscape professionals in Iowa appropriately have eliminated green, white, black, and blue ash from their inventories and designs, replacing them with a host of other useful, pest-resistant tree species. While not all-inclusive, this list does describe some of today's best shade tree selections suitable for the Iowa landscape. But not all trees appearing on this list will "work" in every landscape situation. Great care must be taken to carefully match trees to sites, considering all above- and below-ground spatial and environmental constraints. Of course, EAB is only one of several significant insect pests that threaten our community tree resource. And there's always the chance some new insect or disease-causing pathogen will move into the state. Therefore, a healthy and diverse tree population is the best defense against current and future tree pests.

<u>Deciduous Shade Trees</u>	<u>Height/Width</u>	<u>Growth Habit</u>
<i>Acer ×freemanii</i> – Freeman maple		
'Jeffersred' ( <b>Autumn Blaze</b> <sup>®</sup> )	50'/45'	Broadly-oval
'DTR 102' ( <b>Autumn Fantasy</b> <sup>®</sup> )	40'/30'	Broadly-oval
'Marmo'	50'/30'	Upright-oval
'Bailston' ( <b>Matador</b> <sup>™</sup> )	40'/30'	Upright-oval
'Morgan' ('Indian Summer')	45'/40'	Rounded
'Sienna' ( <b>Sienna Glen</b> <sup>®</sup> )	45'/35'	Pyramidal
'UMNAF#1' ( <b>Firefall</b> <sup>™</sup> )	50'/30'	Upright-oval
<i>Acer miyabei</i> – miyabe maple		
'Morton' ( <b>State Street</b> <sup>™</sup> )	45'/30'	Upright-oval
'JFS-KW3AMI' ( <b>Rugged Ridge</b> <sup>™</sup> )	55'/40'	Upright-oval
<i>Acer platanoides</i> – Norway maple		
'Columnarbroad' ( <b>Parkway</b> <sup>®</sup> )	40'/25'	Oval
'Deborah'	45'/40'	Rounded
'Emerald Queen'	50'/40'	Oval-upright
'Ezestre' ( <b>Easy Street</b> <sup>™</sup> )	40'/20'	Narrow-pyramidal
'Fairview'	45'/35'	Upright-oval

	<u>Height/Width</u>	<u>Growth Habit</u>
'Pond' ( <b>Emerald Lustre</b> <sup>™</sup> )	45'/40'	Rounded
'Princeton Gold'	35'/30'	Oval
<u><i>Acer truncatum</i> × <i>platanoides</i> – hybrid maple</u>		
'Warrenred' ( <b>Pacific Sunset</b> <sup>®</sup> )	30'/25'	Upright-spreading
'JFS-KW202' ( <b>Crimson Sunset</b> <sup>™</sup> )	35'/25'	Upright-oval
'JFS-KW187' ( <b>Urban Sunset</b> <sup>™</sup> )	35'/20'	Upright-oval
<u><i>Acer rubrum</i> – red maple</u>		
'Bailcraig' ( <b>Scarlet Jewell</b> <sup>™</sup> )	50'/30'	Upright
'Franksred' ( <b>Red Sunset</b> <sup>®</sup> )	45'/35'	Upright-oval
'Karpick'	40'/20'	Narrow-oval
'Magnificent Magenta' ( <b>Burgundy Belle</b> <sup>®</sup> )	50'/40'	Oval
'Frank Jr.' ( <b>Redpointe</b> <sup>™</sup> )	45'/30'	Pyramidal
'New World'	40'/20'	Narrow-oval
'Polara' ( <b>Rubyfrost</b> <sup>™</sup> )	45'/40'	Broadly-oval
'Somerset'	45'/35'	Broadly-oval
<u><i>Acer nigrum</i> – black maple</u>		
	60'/60'	Round-spreading
<u><i>Acer saccharum</i> – sugar maple</u>		
'Autumn Splendor'	45'/40'	Broadly-oval
'JFS-KW8' ( <b>Autumn Fest</b> <sup>™</sup> )	50'/35'	Upright-oval
'JFS-Caddo2' ( <b>Flashfire</b> <sup>™</sup> )	45'/40'	Broadly-oval
'Bailsta' ( <b>Fall Fiesta</b> <sup>™</sup> )	50'/50'	Upright-rounded
'Commemoration'	50'/35'	Oval-rounded
'Endowment'	50'/20'	Columnar
'Legacy'	50'/35'	Oval
'Morton' ( <b>Crescendo</b> <sup>™</sup> )	40'/30'	Broadly-oval
'Green Mountain'	45'/35'	Broadly-oval
<u><i>saccharum</i> × <i>grandidentatum</i> 'Hipzam'</u>		
( <b>Highland Park</b> <sup>®</sup> )	35'/22'	Pyramidal
<u><i>Aesculus</i> × <i>carnea</i> – red horsechestnut</u>		
'Briotii'	30'/35'	Round
'Fort McNair'	30'/30'	Round

	<u>Height/Width</u>	<u>Growth Habit</u>
<u><i>Aesculus hippocastanum</i> – common horsechestnut</u>		
'Baumannii'	50'/40'	Broadly-oval
<u><i>Alnus hirsuta</i> – Manchurian alder</u>		
'Harbin' ( <b>Prairie Horizon</b> <sup>®</sup> )	40'/30'	Upright
<u><i>Betula</i> × - hybrid birch</u>		
'Penci-2' ( <b>Royal Frost</b> <sup>®</sup> )	40'/25'	Pyramidal
<u><i>Betula nigra</i> – river birch</u>		
'Cully' ( <b>Heritage</b> <sup>®</sup> )	45'/30'	Oval
<u><i>Betula platyphylla</i> – Asian white birch</u>		
'Fargo' ( <b>Dakota Pinnacle</b> <sup>®</sup> )	40'/15'	Narrow-pyramidal
<u><i>Betula populifolia</i> – gray birch</u>		
'Whitespire Sr.'	40'/25'	Pyramidal-oval
<u><i>Betula utilis</i> – whitebarked Himalayan birch</u>		
'Madison' ( <b>White Satin</b> <sup>™</sup> )	35'/20'	Broadly-pyramidal
<u><i>Celtis occidentalis</i> – hackberry</u>		
'JFS-KSU1' ( <b>Prairie Sentinel</b> <sup>™</sup> )	45'/12'	Columnar
'Chicagoland'	50'/40'	Broadly-pyramidal
'Prairie Pride'	50'/40'	Oval
'Windy City'	45'/40'	Upright-spreading
<u><i>Corylus colurna</i> – Turkish filbert</u>		
	40'/30'	Pyramidal
<u><i>Ginkgo biloba</i> – ginkgo</u>		
'Autumn Gold'	45'/35'	Broadly-pyramidal
'Halka'	45'/40'	Oval
'Magyar'	60'/40'	Upright-oval

	<u>Height/Width</u>	<u>Growth Habit</u>
'PNI 2720' ( <b>Princeton Sentry</b> <sup>®</sup> )	40'/15'	Narrow-pyramidal
'JFS-UGA2' ( <b>Golden Colonnade</b> <sup>®</sup> )	45'/25'	Narrow-oval
'The President' ( <b>Presidential Gold</b> <sup>®</sup> )	50'/40'	Broadly-pyramidal
<u><i>Gleditsia triacanthos</i> var. <i>inermis</i> – honeylocust</u>		
'Draves' ( <b>Street Keeper</b> <sup>™</sup> )	45'/20'	Narrow-upright
'Harve' ( <b>Northern Acclaim</b> <sup>™</sup> )	45'/35'	Upright-spreading
'Skycole' ( <b>Skyline</b> <sup>®</sup> )	50'/35'	Pyramidal
<u><i>Gymnocladus dioica</i> – Kentucky coffeetree</u>		
'Espresso'	50'/35'	Oval
<u><i>Liquidambar styraciflua</i> – sweetgum</u>		
'Clydesform' ( <b>Emerald Sentinel</b> <sup>®</sup> )	30'/12'	Narrow-pyramid
'Moraine'	40'/25'	Pyramidal
<u><i>Maackia amurensis</i> – Amur maackia</u>		
'JFS-Schichtel 1' ( <b>MaacNificent</b> <sup>®</sup> )	30'/22'	Upright-vase
<u><i>Magnolia acuminata</i> – cucumbertree</u>		
	50-80'/40-60'	Upright-oval
<u><i>Nyssa sylvatica</i> – black gum</u>		
'David Odom' ( <b>Afterburner</b> <sup>®</sup> )	35'/20'	Upright-oval
<u><i>Ostrya virginiana</i> – American hophornbeam</u>		
	40'/25'	Upright-oval
<u><i>Phellodendron</i> spp. – cork tree</u>		
'Longenecker' ( <b>Eye Stopper</b> <sup>™</sup> )	40'/35'	Rounded
'His Majesty'	40'/35'	Vase-shaped
<u><i>Platanus</i> × <i>acerifolia</i> – London planetree</u>		
'Bloodgood'	50'/40'	Broadly-pyramidal
'Morton Circle' ( <b>Exclamation</b> <sup>™</sup> )	55'/35'	Upright-pyramidal
<u><i>Quercus alba</i> – white oak</u>		
	50-70'/40-80'	Spreading

	<u>Height/Width</u>	<u>Growth Habit</u>
<u>Quercus bicolor</u> – swamp white oak	60'/60'	Round
'JFS-KW12' ( <b>American Dream</b> <sup>®</sup> )	50'/40'	Broadly-pyramidal
'Bonnie and Mike' ( <b>Beacon</b> <sup>®</sup> )	40'/15'	Narrow-columnar
<u>Quercus bimundorum</u> – English/white oak		
'Crimschmidt' ( <b>Crimson Spire</b> <sup>™</sup> )	45'/15'	Columnar
'Midwest' ( <b>Prairie Stature</b> <sup>™</sup> )	50'/40'	Broadly-pyramidal
'JFS-KW2QX' ( <b>Skinny Genes</b> <sup>®</sup> )	45'/10'	Columnar
'JFS-KW1QX' ( <b>Streetspire</b> <sup>®</sup> )	45'/14'	Columnar
<u>Quercus imbricaria</u> – shingle oak	50'/40'	Broadly-oval
<u>Quercus macrocarpa</u> – bur oak	50-80'/40-80'	Spreading
'JFS-KW3' ( <b>Urban Pinnacle</b> <sup>™</sup> )	55'/25'	Narrow-pyramidal
<u>Quercus muehlenbergii</u> – chinkapin oak	45'/45'	Round
<u>Quercus rubra</u> – red oak	60-75'/60'	Spreading
<u>Quercus</u> × - hybrid oak		
'Clemons' ( <b>Heritage</b> <sup>®</sup> )	40-50'/40-50'	Broadly-pyramidal
'Long' ( <b>Regal Prince</b> <sup>®</sup> )	45'/18'	Narrow-oval
<u>Taxodium distichum</u> – baldcypress		
'Mickelson' ( <b>Shawnee Brave</b> <sup>®</sup> )	55'/20'	Narrow-pyramid
<u>Tilia americana</u> – American linden		
'Boulevard'	60'/30'	Pyramidal
'Continental Appeal'	50'/30'	Narrow-oval
'Wandell' ( <b>Legend</b> <sup>®</sup> )	40'/30'	Broad-pyramidal
'McKSentry' ( <b>American Sentry</b> <sup>®</sup> )	45'/30'	Pyramidal
'Lincoln'	35'/25'	Pyramidal
'Redmond'	50'/35'	Pyramidal

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<u><i>Tilia cordata</i> – littleleaf linden</u>		
'Baileyi' ( <b>Shamrock</b> <sup>®</sup> )	40'/30'	Pyramidal
'Corzam' ( <b>Corinthian</b> <sup>®</sup> )	45'/15'	Narrow-pyramid
'Ronald' ( <b>Norlin</b> <sup>™</sup> )	40'/30'	Pyramidal
<u><i>Tilia</i> × <i>flavescens</i> (<i>americana</i> × <i>cordata</i>)</u>		
'Glenleven'	50'/30'	Pyramidal
<u><i>Tilia mongolica</i> – Mongolian linden</u>		
'Harvest Gold'	30-40'/25-30'	Upright-oval
<u><i>Tilia tomentosa</i> – silver linden</u>		
'PNI 6051' ( <b>Green Mountain</b> <sup>®</sup> )	45'/35'	Broad-pyramidal
'Sterling'	45'/35'	Broad-pyramidal
<u><i>Ulmus americana</i> – American elm</u>		
'Jefferson'	70'/50'	Vase-shaped
'Princeton'	60'/40'	Vase-shaped
'Lewis & Clark' ( <b>Prairie Expedition</b> <sup>™</sup> )	60'/50'	Umbrella-shaped
'New Harmony'	70'/70'	Vase-shaped
'Valley Forge'	70'/70'	Vase-shaped
<u><b>European and Eurasian Hybrid Elm Cultivars</b></u>		
'Patriot'	50'/40'	Stiff vase-shaped
<u><b>Asian Elm Cultivars and Hybrids</b></u>		
'Morton' ( <b>Accolade</b> <sup>™</sup> )	70'/60'	Vase-shaped
'Morton Glossy' ( <b>Triumph</b> <sup>™</sup> )	55'/45'	Vase-shaped
'New Horizon'	55'/40'	Upright-oval
'Prospector'	40'/30'	Vase-shaped
'Discovery'	50'/40'	Vase-shaped

## Small-stature Trees for Iowa

As the emerald ash borer (*Agrilus planipennis*) continues to infest and kill native ash species in 24 states and two Canadian provinces, nursery and landscape professionals in Iowa appropriately have eliminated green, white, black, and blue ash from their inventories and designs, replacing them with a host of other useful, pest-resistant tree species. While not all-inclusive, this list does describe some of today's best small-stature tree selections suitable for the Iowa landscape. But not all trees appearing on this list will "work" in every landscape situation. Great care must be taken to carefully match trees to sites, considering all above- and below-ground spatial and environmental constraints. Of course, EAB is only one of several significant insect pests that threaten our community tree resource. And there's always the chance some new insect or disease-causing pathogen will move into the state. Therefore, a healthy and diverse tree population is the best defense against current and future tree pests.

<u>Deciduous Small-stature Trees</u>	<u>Height/Width</u>	<u>Growth Habit</u>
<u><i>Acer tataricum</i> – tatarian maple</u> 'GarAnn' ( <b>Hot Wings</b> <sup>®</sup> )	20'/25'	Round-spreading
<i>Acer triflorum</i> – three-flower maple	25'/25'	Upright-spreading
<u><i>Amelanchier laevis</i> – Allegheny serviceberry</u> 'Cumulus'	20'/15'	Upright-spreading
'JFS-Arb' ( <b>Spring Flurry</b> <sup>®</sup> )	28'/20'	Upright-oval
<u><i>Amelanchier</i> × <i>grandiflora</i> – apple serviceberry</u> 'Autumn Brilliance'	20'/15'	Upright-spreading
<u><i>Carpinus caroliniana</i> – American hornbeam</u> 'J.N. Upright' ( <b>Firespire</b> <sup>™</sup> )	20'/10'	Upright
'JFS-KW6' ( <b>Native Flame</b> <sup>®</sup> )	30'/20'	Upright-oval
'CCSQU' ( <b>Palisade</b> <sup>®</sup> )	30'/15'	Narrow-oval
<u><i>Cercis canadensis</i> – American redbud</u> 'Pink Trim' ( <b>Northern Herald</b> <sup>™</sup> )	25'/25'	Spreading
	<u>Height/Width</u>	<u>Growth Habit</u>

<i>Cornus alternifolia</i> – pagoda dogwood	20'/20'	Spreading
<i>Cornus mas</i> – corneliancherry dogwood	20'/20'	Round-spreading
<u><i>Cornus racemosa</i> – gray dogwood</u>		
'Jade' ( <b>Snow Mantle</b> <sup>™</sup> )	15'/8'	Upright-spreading
<u><i>Crataegus viridis</i> – green hawthorn</u>		
'Winter King'	20'/25'	Wide vase-shaped
<u><i>Magnolia ×loebneri</i> – Loebner magnolia</u>		
'Merrill'	25'/25'	Upright-spreading
'Ruth' ( <b>Spring Welcome</b> <sup>®</sup> )	20'/20'	Round-spreading
<u><i>Malus</i> spp. – crabapple</u>		
'Adirondack'	18'/12'	Vase-shaped
'Beeson' ( <b>May's Delight</b> <sup>®</sup> )	8'/8'	Upright-spreading
'Hub Tures' ( <b>Spring Sensation</b> <sup>™</sup> )	10'/12'	Wide-spreading
'JFS-KW5' ( <b>Royal Raindrops</b> <sup>®</sup> )	20'/15'	Upright-spreading
'Louisa'	10'/12'	Weeping
'Malusquest' ( <b>Pink Sparkles</b> <sup>®</sup> )	15'/12'	Upright
'Orange Crush'	15'/15'	Round-spreading
<i>Ostrya virginiana</i> – American hophornbean	25'/20'	Upright-spreading
<u><i>Prunus sargentii</i> – Sargent cherry</u>		
'JFS-KW58' ( <b>Pink Flair</b> <sup>®</sup> )	25'/15'	Upright
'Hokkaido Normandale' ( <b>Spring Wonder</b> <sup>™</sup> )	25'/20'	Upright-spreading
<u><i>Pyrus calleryana</i> – callery pear</u>		
'Glen's Form' ( <b>Chanticleer</b> <sup>®</sup> )	40'/15'	Narrow-pyramid
<u><i>Pyrus ussuriensis</i> – Ussurian pear</u>		
'MorDak' ( <b>Prairie Gem</b> <sup>®</sup> )	25'/20'	Oval
'Bailfrost' ( <b>Mountain Frost</b> <sup>®</sup> )	20'/15'	Upright-oval



	<u>Height/Width</u>	<u>Growth Habit</u>
<u><i>Syringa reticulata</i> subsp. <i>pekinensis</i> – Pekin lilac</u>		
'Morton' ( <b>China Snow</b> <sup>®</sup> )	20'/20'	Upright-spreading
'SunDak' ( <b>Copper Curls</b> <sup>®</sup> )	20'/15'	Upright-spreading
<u><i>Syringa reticulata</i> – Japanese tree lilac</u>		
'Bailnce' ( <b>Snowdance</b> <sup>™</sup> )	18'/20'	Round-spreading
'Ivory Silk'	25'/15'	Upright
<u><i>Taxodium distichum</i> – baldcypress</u>		
'Skyward' ( <b>Lindsey's Skyward</b> <sup>™</sup> )	25'/10'	Columnar

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Compiled by Jeff Iles, Department of Horticulture, Iowa State University. 7-January-2015