

Alternatives to Ash (*Fraxinus* spp.)

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As the Emerald Ash Borer (EAB) continues to infest and kill native ash species in the upper Midwest (Illinois, Indiana, Michigan, Missouri, Ohio, Wisconsin, and now Minnesota), nursery and landscape professionals in Iowa appropriately are eliminating green, white, black, and blue ash from their inventories and designs and 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.

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

	<u>Height/Width</u>	<u>Growth Habit</u>
<u><i>Acer truncatum</i> × <i>platanoides</i> - hybrid maple</u>		
'Warrenred' (Pacific Sunset [®])	30'/25'	Upright-spreading
'JFS-KW202' (Crimson Sunset [™])	35'/25'	Upright-oval
<u><i>Acer rubrum</i> - red maple</u>		
'Bailcraig' (Scarlet Jewel [™])	50'/30'	Upright
'Franksred' (Red Sunset [®])	45'/35'	Upright-oval
'Magnificent Magenta' (Burgundy Belle [®])	50'/40'	Oval
'Frank Jr.' (Redpointe [™])	45'/30'	Pyramidal
'New World'	40'/20'	Narrow-oval
'Polara' (Rubyfrost [™])	45'/40'	Broadly-oval
'Somerset'	45'/35'	Broadly-oval
<u><i>Acer saccharinum</i> - silver maple</u>		
'Silver Cloud'	50'/30'	Upright-oval
'Silver Queen'	50'/40'	Upright-oval
'Skinneri'	50'/40'	Upright-oval
<u><i>Acer saccharum</i> - sugar maple</u>		
'JFS-KW8' (Autumn Fest [™])	50'/35'	Upright-oval
'Bailsta' (Fall Fiesta [™])	50'/50'	Upright-rounded
'Commemoration'	50'/35'	Oval-rounded
'Endowment'	50'/20'	Columnar
'Legacy'	50'/35'	Oval
'Morton' (Crescendo [™])	40'/30'	Broadly-oval
'Green Mountain'	45'/35'	Broadly-oval
<i>Aesculus glabra</i> – Ohio buckeye	35'/30'	Broadly-oval
<u><i>Alnus hirsuta</i> – Manchurian alder</u>		
'Harbin' (Prairie Horizon [®])	40'/30'	Upright
<u><i>Betula nigra</i> – river birch</u>		
'Cully' (Heritage [®])	45'/30'	Oval

	<u>Height/Width</u>	<u>Growth Habit</u>
<u><i>Betula platyphylla</i> – Asian white birch</u>		
'VerDale' (Prairie Vision [®])	35'/30'	Upright-oval
<u><i>Betula populifolia</i> – gray birch</u>		
'Whitespire Sr.'	40'/25'	Pyramidal-oval
<u><i>Betula utilis</i> – whitebarked Himalayan birch</u>		
'Madison' (White Satin [™])	35'/20'	Broadly-pyramidal
<i>Celtis occidentalis</i> - hackberry	50'/30'	Ascending/arching
<i>Corylus colurna</i> – Turkish filbert	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
'PNI 2720' (Princeton Sentry [®])	40'/15'	Narrow-pyramidal
'JFS-UGA2' (Golden Colonnade [®])	45'/25'	Narrow-oval
'The President' (Presidential Gold [®])	50'/40'	Broadly-pyramidal
<u><i>Gleditsia triacanthos</i> var. <i>inermis</i> - honeylocust</u>		
'Draves' (Street Keeper [™])	45'/20'	Narrow-upright
'Harve' (Northern Acclaim [™])	45'/35'	Upright-spreading
'Skycole' (Skyline [®])	50'/35'	Pyramidal
<u><i>Gymnocladus dioica</i> - Kentucky coffeetree</u>		
'Espresso'	50'/35'	Oval
<u><i>Liquidambar styraciflua</i> – sweetgum</u>		
'Clydesform' (Emerald Sentinel [®])	30'/12'	Narrow-pyramid
'Moraine'	40'/25'	Pyramidal
<u><i>Liriodendron tulipifera</i> – tuliptree</u>		
'JFS-Oz' (Emerald City [™])	55'/25'	Oval

	<u>Height/Width</u>	<u>Growth Habit</u>
<i>Maackia amurensis</i> – Amur maackia	25'/25'	Upright-spreading
<i>Magnolia acuminata</i> – cucumbertree	50-80'/40-60'	Rounded
<i>Ostrya virginiana</i> – American hophornbeam	40'/25'	Upright-oval
<u><i>Phellodendron</i> spp. – cork tree</u>		
'Longenecker' (Eye Stopper [™])	40'/35'	Rounded
'His Majesty'	40'/35'	Vase-shaped
<u><i>Platanus × acerifolia</i> – London planetree</u>		
'Bloodgood'	50'/40'	Broadly-pyramidal
'Morton Thornhill' (Exclamation [™])	55'/35'	Upright-pyramidal
<i>Quercus alba</i> – white oak	50-70'/40-80'	Spreading
<i>Quercus bicolor</i> - swamp white oak	60'/60'	Rounded
<u><i>Quercus bimundorum</i> – English/white oak</u>		
'Crimschmidt' (Crimson Spire [™])	45'/15'	Columnar
'Midwest' (Prairie Stature [™])	50'/40'	Broadly-pyramidal
<i>Quercus imbricaria</i> – shingle oak	50'/40'	Broadly-oval
<i>Quercus macrocarpa</i> - bur oak	50-80'/40-80'	Spreading
'JFS-KW3' (Urban Pinnacle [™])	55'/25'	Narrow-pyramidal
<i>Quercus muehlenbergii</i> – chinkapin oak	45'/45'	Rounded
<i>Quercus rubra</i> - red oak	60-75'/60'	Spreading
<u><i>Quercus</i> × - hybrid oak</u>		
'Clemons' (Heritage [®])	40-50'/40-50'	Broadly-pyramidal
'Long' (Regal Prince [®])	45'/18'	Narrow-oval

	<u>Height/Width</u>	<u>Growth Habit</u>
<u>Taxodium distichum</u> – baldcypress	55'/30'	Pyramidal
'Mickelson' (Shawnee Brave [®])	55'/20'	Narrow-pyramid
<u>Tilia americana</u> - American linden		
'Boulevard'	60'/30'	Pyramidal
'Continental Appeal'	50'/30'	Narrow-oval
'Wandell' (Legend [®])	40'/30'	Broad-pyramidal
'McKSentry' (American Sentry [®])	45'/30'	Pyramidal
'Lincoln'	35'/25'	Pyramidal
'Redmond'	50'/35'	Pyramidal
<u>Tilia cordata</u> - littleleaf linden		
'Bailey' (Shamrock [®])	40'/30'	Pyramidal
'Corzam' (Corinthian [®])	45'/15'	Narrow-pyramid
'Ronald' (Norlin [™])	40'/30'	Pyramidal
<u>Tilia × flavescens (americana × cordata)</u>		
'Glenleven'	50'/30'	Pyramidal
<u>Tilia mongolica</u> - Mongolian linden		
'Harvest Gold'	30-40'/25-30'	Upright-oval
<u>Tilia tomentosa</u> – silver linden		
'PNI 6051' (Green Mountain [®])	45'/35'	Broad-pyramidal
'Sterling'	45'/35'	Broad-pyramidal
<u>Ulmus americana</u> - American elm		
'Jefferson'	70'/50'	Vase-shaped
'New Harmony'	70'/70'	Vase-shaped
'Princeton'	60'/40'	Vase-shaped
'Valley Forge'	70'/70'	Vase-shaped
<u>European and Eurasian Hybrid Elm Cultivars</u>		
'Frontier'	45'/25'	Upright-pyramidal
'Patriot'	50'/40'	Stiffly vase-shaped

	<u>Height/Width</u>	<u>Growth Habit</u>
<u>Asian Elm Cultivars and Hybrids</u>		
'Morton' (Accolade [™])	70'/60'	Vase-shaped
'Morton Glossy' (Triumph [™])	55'/45'	Vase-shaped
'New Horizon'	55'/40'	Upright-oval
'Prospector'	40'/30'	Vase-shaped
'Discovery'	50'/40'	Vase-shaped