



Alternatives to Ash

Emerald ash borer is responsible for the loss of tens of millions of *Fraxinus*, wreaking havoc on boulevards and growing fields alike. But a broad selection of shade trees is available, ready to serve as suitable substitutes.

By Jeff Iles

As the emerald ash borer (*Agri-lus planipennis*; EAB) continues to infest and kill native ash species in the upper Midwest (Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Ohio and Wisconsin), nursery and landscape professionals 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 landscape in regions that have been ravaged by EAB. Not all trees on this list will be appropriate for your particular needs, but the selections comprise a broad palette from which to choose.

Crimson Sunset™ maple; *Acer truncatum* × *platanoides*



Photos courtesy of J. Frank Schmidt & Son Co.

Deciduous Shade Trees

Height/Width in feet

Growth Habit

Acer × *freemanii* (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

Acer *miyabei* (Miyabe maple)

'Morton' (State Street™)	45/30	Upright-oval
'JFS-KW3AMI' (Rugged Ridge™)	55/40	Upright-oval

Acer *platanoides* (Norway maple)

'Columnarbroad' (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

Acer truncatum × *platanoides* (hybrid maple)

'Warrenred' (Pacific Sunset®)	30/25	Upright-spreading
'JFS-KW202 (Crimson Sunset™)	35/25	Upright-oval

Acer *rubrum* (red maple)

'Bailcraig' (Scarlet Jewell™)	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

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Deciduous Shade Trees	Height/Width in feet	Growth Habit
<i>Acer saccharinum</i> (silver maple)		
‘Silver Cloud’	50/30	Upright-oval
‘Silver Queen’	50/40	Upright-oval
‘Skinneri’	50/40	Upright-oval
<i>Acer saccharum</i> (sugar maple)		
‘Autumn Splendor’	45/40	Broadly oval
‘JFS-KW8’ (Autumn Fest™)	50/35	Upright-oval
‘JFS-Caddo2’ (Flashfire™)	45/40	Broadly oval
‘Bailsta’ (Fall Fiesta™)	50/50	Upright-rounded
‘Commemoration’	50/35	Oval-rounded
‘Endowment’	50/20	Columnnar
‘Legacy’	50/35	Oval
‘Morton’ (Crescendo™)	40/30	Broadly oval
‘Green Mountain’	45/35	Broadly oval
<i>Aesculus × carnea</i> (red horsechestnut)		
‘Briotii’	30/35	Round
‘Fort McNair’	30/30	Round
<i>Aesculus hippocastanum</i> (common horsechestnut)		
‘Baumannii’	50/40	Broadly oval
<i>Alnus hirsute</i> (Manchurian alder)		
‘Harbin’ (Prairie Horizon®)	40/30	Upright
<i>Betula</i> × (hybrid birch)		
‘Penci-2’ (Royal Frost®)	40/25	Pyramidal
<i>Betula nigra</i> (river birch)		
‘Cully’ (Heritage®)	45/30	Oval
<i>Betula platyphylla</i> (Asian white birch)		
‘VerDale’ (Prairie Vision®)	35/30	Upright-oval
<i>Betula populifolia</i> (gray birch)		
‘Whitespire Sr.’	40/25	Pyramidal-oval
<i>Betula utilis</i> (whitebarked Himalayan birch)		
‘Madison’ (White Satin™)	35/20	Broadly pyramidal
<i>Celtis occidentalis</i> (hackberry)		
‘JFS-KSU1’ (Prairie Sentinel™)	45/12	Columnnar
<i>Corylus colurna</i> (Turkish filbert)		
‘Madison’ (White Satin™)	35/20	Broadly pyramidal
<i>Ginkgo biloba</i> (ginkgo)		
‘Autumn Gold’	45/35	Broadly pyramidal
‘Halka’	45/40	
Oval: ‘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

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Emerald Sentinel® sweetgum; *Liquidambar styraciflua* ‘Clydesform’



Flashfire™ maple; *Acer saccharum* ‘JFS-Caddo2’



Golden Colonnade® ginkgo



Pacific Sunset® maple; *Acer truncatum* × *platanoides* 'Warrenred'

Alternatives to Ash

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Deciduous Shade Trees	Height/Width in feet	Growth Habit
<i>Gleditsia triacanthos</i> var. <i>inermis</i> (honeylocust)		
'Draves' (Street Keeper™)	45/20	Narrow-upright
'Harve' (Northern Acclaim™)	45/35	Upright-spreading
'Skycole' (Skyline®)	50/35	Pyramidal
<i>Gymnocladus dioica</i> (Kentucky coffeetree)		
'Espresso'	50/35	Oval
<i>Liquidambar styraciflua</i> (sweetgum)		
'Clydesform' (Emerald Sentinel®)	30/12	Narrow-pyramid
'Moraine'	40/25	Pyramidal
<i>Maackia amurensis</i> (Amur maackia)		
	25/25	Upright-spreading
<i>Magnolia acuminata</i> (cucumbertree)		
	50-80/40-60	Upright-oval
<i>Ostrya virginiana</i> (American hophornbeam)		
	40/25	Upright-oval
<i>Phellodendron</i> spp. (cork tree)		
'Longenecker' (Eye Stopper™)	40/35	Rounded
'His Majesty'	40/35	Vase-shaped
<i>Platanus</i> × <i>acerifolia</i> (London planetree)		
'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
<i>Quercus bimundorum</i> (English/white oak)		
'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)		
'JFS-KW3' (Urban Pinnacle™)	50-80/40-80	Spreading
	55/25	Narrow-pyramidal
<i>Quercus muehlenbergii</i> (chinkapin oak)		
	45/45	Rounded
<i>Quercus rubra</i> (red oak)		
	60-75/60	Spreading
<i>Quercus</i> (hybrid oak)		
'Clemons' (Heritage®)	40-50/40-50	Broadly pyramidal
'Long' (Regal Prince®)	45/18	Narrow-oval
<i>Taxodium distichum</i> (baldcypress)		
'Mickelson' (Shawnee Brave®)	55/20	Narrow-pyramid
'JFS-SGPN' (Green Whisper™)	55/30	Pyramidal

Deciduous Shade Trees

**Height/Width
in feet** **Growth Habit**

<i>Tilia americana</i> (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

<i>Tilia cordata</i> (littleleaf linden)		
'Bailey' (Shamrock®)	40/30	Pyramidal
'Corzam' (Corinthian®)	45/15	Narrow-pyramid
'Ronald' (Norlin™)	40/30	Pyramidal

<i>Tilia × flavescens</i> (<i>americana</i> × <i>cordata</i>)		
'Glenleven'	50/30	Pyramidal

<i>Tilia mongolica</i> (Mongolian linden)		
'Harvest Gold'	30-40/25-30	Upright-oval

<i>Tilia tomentosa</i> (silver linden)		
'PNI 6051' (Green Mountain®)	45/35	Broad-pyramidal
'Sterling'	45/35	Broad-pyramidal

<i>Ulmus americana</i> (American elm)		
'Jefferson'	70/50	Vase-shaped
'Princeton'	60/40	Vase-shaped

European and Eurasian Hybrid Elm Cultivars		
'Frontier'	45/25	Upright-pyramidal
'Patriot'	50/40	Stiff vase-shaped

Asian Elm Cultivars and Hybrids		
'Morton' (Accolade™)	70/60	Vase-shaped
'Morton Glossy' (Triumph™)	55/45	Vase-shaped
'New Horizon'	55/40	Upright-oval
'Prospector'	0/30	Vase-shaped
'Discovery'	50/40	Vase-shaped

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Urban Pinnacle™ bur oak; *Quercus macrocarpa* 'JFS-KW3'



Rugged Ridge™ maple; *Acer miyabei* 'JFS-KW3AMI'



Corinthian® littleleaf linden; *Tilia cordata* 'Corzam'
Courtesy of Lake County Nursery