This document lists several shade tree selections suitable for the Iowa landscape. Nursery and landscape professionals have eliminated green, white, black, pumpkin, and blue ash from their inventories and designs since they are susceptible to the emerald ash borer, which kills ash trees. This destructive pest has been found in several states in the upper Midwest.

While not all-inclusive, this list does describe many useful species, many which are also pest-resistant. Not all trees appearing on this list will “work” in every landscape situation. Great care must be taken to carefully match trees to sites (including above- and below-ground spatial and environmental constraints) and to complement species existing nearby so that a diverse tree canopy will be maintained. A healthy and diverse tree population is the best defense against current and future tree pests.

**Deciduous Shade Trees**

<table>
<thead>
<tr>
<th>Species</th>
<th>Height/Width</th>
<th>Growth Habit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alder</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Manchurian alder – <em>Alnus hirsuta</em></td>
<td></td>
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</tr>
<tr>
<td>‘Harbin’ (Prairie Horizon®)</td>
<td>40’/30’</td>
<td>Upright</td>
</tr>
<tr>
<td>Amur maackia – <em>Maackia amurensis</em></td>
<td>25’/25’</td>
<td>Upright spreading</td>
</tr>
<tr>
<td><strong>Baldcypresses</strong></td>
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<tr>
<td>Baldcypress – <em>Taxodium distichum</em></td>
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</tr>
<tr>
<td>‘Mickelson’ (Shawnee Brave®)</td>
<td>55’/20’</td>
<td>Narrow pyramid</td>
</tr>
<tr>
<td>‘JFS-SGPN’ (Green Whisper™)</td>
<td>55’/30’</td>
<td>Pyramidal</td>
</tr>
<tr>
<td><strong>Birches</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asian white birch – <em>Betula platyphylla</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘VerDale’ (Prairie Vision)</td>
<td>35’/30’</td>
<td>Upright oval</td>
</tr>
<tr>
<td>Gray birch – <em>Betula populifolia</em></td>
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</tr>
<tr>
<td>‘Whitespire Sr’</td>
<td>40’/25’</td>
<td>Pyramidal oval</td>
</tr>
<tr>
<td>River birch – <em>Betula nigra</em></td>
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<tr>
<td>‘Cully’ (Heritage®)</td>
<td>45’/30’</td>
<td>Oval</td>
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<tr>
<td>Whitbarked Himalayan birch – <em>Betula utilis</em></td>
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</tr>
<tr>
<td>‘Madison’ (White Satin™)</td>
<td>35’/20’</td>
<td>Broadly pyramidal</td>
</tr>
<tr>
<td>Deciduous Shade Trees</td>
<td>Height/Width</td>
<td>Growth Habit</td>
</tr>
<tr>
<td>-------------------------------------------</td>
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<tr>
<td>Black gum/Black tupelo – <em>Nyssa sylvatica</em></td>
<td>35’/30’</td>
<td>Pyramidal spreading</td>
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<tr>
<td>Coffeetree</td>
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<tr>
<td>Kentucky coffeetree – <em>Gymnocladus dioicus</em></td>
<td></td>
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<tr>
<td>‘Espresso’</td>
<td>50’/30’</td>
<td>Oval</td>
</tr>
<tr>
<td>Cork trees</td>
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<tr>
<td>Cork tree – <em>Phellodendron</em> species</td>
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<tr>
<td>‘Longnecker’ (Eye Stopper™)</td>
<td>40’/35’</td>
<td>Rounded</td>
</tr>
<tr>
<td>‘His Majesty’</td>
<td>40’/35’</td>
<td>Vase-shaped</td>
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<tr>
<td>Elms</td>
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<tr>
<td>American elm – <em>Ulmus americana</em></td>
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</tr>
<tr>
<td>‘Jefferson’</td>
<td>70’/50’</td>
<td>Vase-shaped</td>
</tr>
<tr>
<td>‘Princeton’</td>
<td>60’/40’</td>
<td>Vase-shaped</td>
</tr>
<tr>
<td>‘Lewis &amp; Clark’ (Prairie Expedition™)</td>
<td>60’/50’</td>
<td>Umbrella-shaped</td>
</tr>
<tr>
<td>‘New Harmony’</td>
<td>70’/70’</td>
<td>Vase-shaped</td>
</tr>
<tr>
<td>‘Valley Forge’</td>
<td>70’/70’</td>
<td>Vase-shaped</td>
</tr>
<tr>
<td>Asian Elm Cultivars and Hybrids</td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘Morton’ (Accolade™)</td>
<td>70’/60’</td>
<td>Vase-shaped</td>
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<tr>
<td>‘Morton Glossy’ (Triumph™)</td>
<td>55’/45’</td>
<td>Vase-shaped</td>
</tr>
<tr>
<td>‘New Horizon’</td>
<td>70’/70’</td>
<td>Upright oval</td>
</tr>
<tr>
<td>‘Prospector’</td>
<td>40’/30’</td>
<td>Vase-shaped</td>
</tr>
<tr>
<td>‘Discovery’</td>
<td>50’/40’</td>
<td>Vase-shaped</td>
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<tr>
<td>European and Eurasian Hybrids</td>
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<tr>
<td>‘Patriot’</td>
<td>50’/40’</td>
<td>Stiff vase-shaped</td>
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<tr>
<td>Filbert</td>
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<tr>
<td>Turkish filbert – <em>Corylus colurna</em></td>
<td>40’/30’</td>
<td>Pyramidal</td>
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<tr>
<td>Ginkgo</td>
<td></td>
<td></td>
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<tr>
<td>Ginkgo – <em>Ginkgo biloba</em></td>
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<td></td>
</tr>
<tr>
<td>‘Autumn Gold’</td>
<td>45’/35’</td>
<td>Broadly pyramidal</td>
</tr>
<tr>
<td>‘Halka’</td>
<td>45’/40’</td>
<td>Oval</td>
</tr>
<tr>
<td>‘Magyar’</td>
<td>60’/40’</td>
<td>Upright oval</td>
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<tr>
<td>‘PNI 2720’ (Princeton Sentry®)</td>
<td>40’/15’</td>
<td>Narrow pyramidal</td>
</tr>
<tr>
<td>‘JFS-UGA2’ (Golden Colonnade®)</td>
<td>45’/25’</td>
<td>Narrow oval</td>
</tr>
<tr>
<td>‘The President’ (Presidential Gold®)</td>
<td>50’/40’</td>
<td>Broadly pyramidal</td>
</tr>
<tr>
<td>Hackberries</td>
<td></td>
<td></td>
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<tr>
<td>Hackberry – <em>Celtis occidentalis</em></td>
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<tr>
<td>‘JFS-KSU1’ (Prairie Sentinel™)</td>
<td>45’/12’</td>
<td>Columnar</td>
</tr>
<tr>
<td>‘Chicagoland’</td>
<td>50’/40’</td>
<td>Broadly pyramidal</td>
</tr>
<tr>
<td>‘Prairie Pride’</td>
<td>50’/40’</td>
<td>Oval</td>
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</tbody>
</table>
### Deciduous Shade Trees

<table>
<thead>
<tr>
<th>Tree Type</th>
<th>Scientific Name</th>
<th>Height/Width</th>
<th>Growth Habit</th>
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<tbody>
<tr>
<td><strong>Honeylocusts</strong></td>
<td><em>Gleditsia triacanthos var. inermis</em></td>
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<tr>
<td>Honeylocust – ‘Draves’ <em>(Street Keeper™)</em></td>
<td>45’/20’</td>
<td>Narrow upright</td>
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</tr>
<tr>
<td>Honeylocust – ‘Harve’ <em>(Northern Acclaim™)</em></td>
<td>45’/35’</td>
<td>Upright spreading</td>
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<tr>
<td>Honeylocust – ‘Skycole’ <em>(Skyline®)</em></td>
<td>50’/35’</td>
<td>Pyramidal</td>
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<tr>
<td><strong>Hophornbeam</strong></td>
<td><em>Ostrya virginiana</em></td>
<td>40’/25’</td>
<td>Upright oval</td>
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<tr>
<td><strong>Horsechestnuts</strong></td>
<td><em>Aesculus hippocastanum</em></td>
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<tr>
<td>Common horsechestnut – ‘Baumannii’</td>
<td>50’/40’</td>
<td>Broadly oval</td>
<td></td>
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<tr>
<td>Red horsechestnut – <em>Aesculus x carnea</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>‘Briotii’</td>
<td>30’/35’</td>
<td>Round</td>
<td></td>
</tr>
<tr>
<td>‘Fort McNair’</td>
<td>30’/30’</td>
<td>Round</td>
<td></td>
</tr>
<tr>
<td><strong>Lindens</strong></td>
<td><em>Tilia Americana</em></td>
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<tr>
<td>American linden – ‘Boulevard’</td>
<td>60’/30’</td>
<td>Pyramidal</td>
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<tr>
<td>‘Continental Appeal’</td>
<td>50’/30’</td>
<td>Narrow oval</td>
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<tr>
<td>‘Wandell’ <em>(Legend®)</em></td>
<td>40’/30’</td>
<td>Broad pyramidal</td>
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<tr>
<td>‘McKSentry’ <em>(American Sentry®)</em></td>
<td>45’/30’</td>
<td>Pyramidal</td>
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<tr>
<td>‘Lincoln’</td>
<td>35’/25’</td>
<td>Pyramidal</td>
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</tr>
<tr>
<td>‘Redmond’</td>
<td>50’/35’</td>
<td>Pyramidal</td>
<td></td>
</tr>
<tr>
<td>Hybrid Linden – <em>Tilia x flavescens (americana x cordata)</em></td>
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<td></td>
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<tr>
<td>‘Glenleven’</td>
<td>50’/30’</td>
<td>Pyramidal</td>
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<tr>
<td><strong>Littleleaf linden</strong></td>
<td><em>Tilia cordata</em></td>
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<tr>
<td>‘Baileyi’ <em>(Shamrock®)</em></td>
<td>40’/30’</td>
<td>Pyramidal</td>
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<tr>
<td>‘Corzam’ <em>(Corinthian®)</em></td>
<td>45’/15’</td>
<td>Narrow pyramidal</td>
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<tr>
<td>‘Ronald’ <em>(Norlin™)</em></td>
<td>40’/30’</td>
<td>Pyramidal</td>
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<tr>
<td><strong>Mongolian linden</strong></td>
<td><em>Tilia mongolica</em></td>
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<tr>
<td>‘Harvest Gold’</td>
<td>30-40’/25-30’</td>
<td>Upright oval</td>
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<tr>
<td><strong>Silver linden</strong></td>
<td><em>Tilia tomentosa</em></td>
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<tr>
<td>‘PNI 6051’ <em>(Green Mountain®)</em></td>
<td>45’/35’</td>
<td>Broad pyramidal</td>
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<tr>
<td>‘Sterling’</td>
<td>45’/35’</td>
<td>Broad pyramidal</td>
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<tr>
<td><strong>Magnolias</strong></td>
<td><em>Magnolia acuminata</em></td>
<td>50-80’/40-60’</td>
<td>Upright oval</td>
</tr>
<tr>
<td>Deciduous Shade Trees</td>
<td>Height/Width</td>
<td>Growth Habit</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
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</tr>
<tr>
<td><strong>Maples</strong></td>
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<td></td>
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</tr>
<tr>
<td>Black maple – <em>Acer nigrum</em></td>
<td>60'/60’</td>
<td>Round spreading</td>
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<tr>
<td>Freeman maple – <em>Acer x freemanii</em></td>
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<tr>
<td>‘Jeffersred’ (Autumn Blaze®)</td>
<td>50'/45’</td>
<td>Broadly oval</td>
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<tr>
<td>‘DTR 102’ (Autumn Fantasy®)</td>
<td>40'/30’</td>
<td>Broadly oval</td>
<td></td>
</tr>
<tr>
<td>‘Marmo’</td>
<td>50'/30’</td>
<td>Upright oval</td>
<td></td>
</tr>
<tr>
<td>‘Bailston’ (Matador™)</td>
<td>40'/30’</td>
<td>Upright oval</td>
<td></td>
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<tr>
<td>‘Morgan’ (‘Indian Summer’)</td>
<td>45'/40’</td>
<td>Rounded</td>
<td></td>
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<tr>
<td>‘Sienna’ (Sienna Glen®)</td>
<td>45'/35’</td>
<td>Pyramidal</td>
<td></td>
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<tr>
<td>‘UMNAF#1’ (Firefall™)</td>
<td>50'/30’</td>
<td>Upright oval</td>
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<tr>
<td><strong>Hybrid maple – Acer truncatum x platanoides</strong></td>
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<tr>
<td>‘Warren red’ (Pacific Sunset®)</td>
<td>30'/25’</td>
<td>Upright spreading</td>
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<tr>
<td>‘JFS-KW202’ (Crimson Sunset™)</td>
<td>35'/25’</td>
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<tr>
<td><strong>Miyabe maple – Acer miyabei</strong></td>
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<tr>
<td>‘Morton’ (State Street™)</td>
<td>45'/30’</td>
<td>Upright oval</td>
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<tr>
<td><strong>Red maple – Acer rubrum</strong></td>
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<tr>
<td>‘Bailcraig’ (Scarlet Jewell™)</td>
<td>50'/30’</td>
<td>Upright</td>
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<tr>
<td>‘Franksred’ (Red Sunset®)</td>
<td>45'/35’</td>
<td>Upright oval</td>
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<tr>
<td>‘Magnificent Magenta’ (Burgundy Belle®)</td>
<td>50'/40’</td>
<td>Oval</td>
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<tr>
<td>‘Frank Jr.’ (Redpointe™)</td>
<td>45'/30’</td>
<td>Pyramidal</td>
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<tr>
<td>‘New World’</td>
<td>40'/20’</td>
<td>Narrow oval</td>
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<tr>
<td>‘Polara’ (Rubyfrost™)</td>
<td>45'/40’</td>
<td>Broadly oval</td>
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<tr>
<td>‘Somerset’</td>
<td>45'/35’</td>
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<tr>
<td><strong>Sugar maple – Acer saccharum</strong></td>
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<tr>
<td>‘Bailsta’ (Fall Fiesta™)</td>
<td>50'/50’</td>
<td>Upright rounded</td>
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<tr>
<td>‘Commemoration’</td>
<td>50'/35’</td>
<td>Oval rounded</td>
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<tr>
<td>‘Legacy’</td>
<td>50'/35’</td>
<td>Oval</td>
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<tr>
<td>‘Morton’ (Crescendo™)</td>
<td>40'/30’</td>
<td>Broadly oval</td>
<td></td>
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<tr>
<td>‘Green Mountain’</td>
<td>45'/35’</td>
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<tr>
<td><strong>Planetrees</strong></td>
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<tr>
<td>London planetree – <em>Platanus x acerifolia</em></td>
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<tr>
<td>‘Bloodgood’</td>
<td>50'/40’</td>
<td>Broadly pyramidal</td>
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<tr>
<td>‘Morton Circle’ (Exclamation™)</td>
<td>55'/35’</td>
<td>Upright pyramidal</td>
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</table>
## Deciduous Shade Trees

<table>
<thead>
<tr>
<th>Tree Type</th>
<th>Height/Width</th>
<th>Growth Habit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oaks</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bur oak – <em>Quercus macrocarpa</em></td>
<td>50-80’/40-80’</td>
<td>Spreading</td>
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<tr>
<td>‘JFS-KW3’ (Urban Pinnacle™)</td>
<td>55’/25’</td>
<td>Narrow pyramidal</td>
</tr>
<tr>
<td>Chinkapin Oak – <em>Quercus muehlenbergii</em></td>
<td>45’/45’</td>
<td>Round</td>
</tr>
<tr>
<td>English/white oak – <em>Quercus bicolor</em></td>
<td>45’/15’</td>
<td>Columnar</td>
</tr>
<tr>
<td>‘Crimschmidt’ (Crimson Spire™)</td>
<td>45’/15’</td>
<td></td>
</tr>
<tr>
<td>‘Midwest’ (Prairie Stature™)</td>
<td>50’/40’</td>
<td>Broadly pyramidal</td>
</tr>
<tr>
<td>Hybrid oak – <em>Quercus x</em></td>
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</tr>
<tr>
<td>‘Long’ (Regal Prince®)</td>
<td>45’/18’</td>
<td>Narrow Oval</td>
</tr>
<tr>
<td>Red oak – <em>Quercus rubra</em></td>
<td>60-75’/60’</td>
<td>Spreading</td>
</tr>
<tr>
<td>Shingle oak – <em>Quercus imbricaria</em></td>
<td>50’/40’</td>
<td>Broadly oval</td>
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<tr>
<td>Swamp white oak – <em>Quercus bicolor</em></td>
<td>60’/60’</td>
<td>Round</td>
</tr>
<tr>
<td>White oak – <em>Quercus alba</em></td>
<td>50-70’/40-80’</td>
<td>Spreading</td>
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<table>
<thead>
<tr>
<th>Tree Type</th>
<th>Height/Width</th>
<th>Growth Habit</th>
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<tbody>
<tr>
<td><strong>Sweetgums</strong></td>
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<tr>
<td>Sweetgum – <em>Liquidambar styraciflua</em></td>
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<tr>
<td>‘Clydesform; (Emerald Sentinel®)’</td>
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</tr>
<tr>
<td>‘Moraine’</td>
<td>40’/25’</td>
<td>Pyramidal</td>
</tr>
</tbody>
</table>

Prepared by Dr. Jeff Iles, Professor and Extension Specialist, Department of Horticulture, Iowa State University. Reviewed and edited 17 April 2017 by Gabbi Edwards, Extension Urban Forester, Iowa State University Extension and Outreach.

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