

Black Maple (Acer nigrum)

Maples are among our most important timber trees. One of five maples that grow in lowa, this hard maple is one of lowa's important commercial species as well as one of the most spectacular trees for beauty and fall color. Black maple is characterized by having shallowly 3-lobed leaves with drooping sides, nearly entire margins. It is the only hard maple found in western lowa.

Habitat: They occur naturally on a wide variety of sites, but prefer well drained, cool moist locations such as sheltered slopes facing to the north and east. Because of their tolerance to shade, they are often a primary understory component of lowa's upland woodlands Hardiness: Very tolerant, zones 4 though 8

Growth Rate: Slow growing they are a heavier, harder wood, making them less susceptible to branch and limb drop

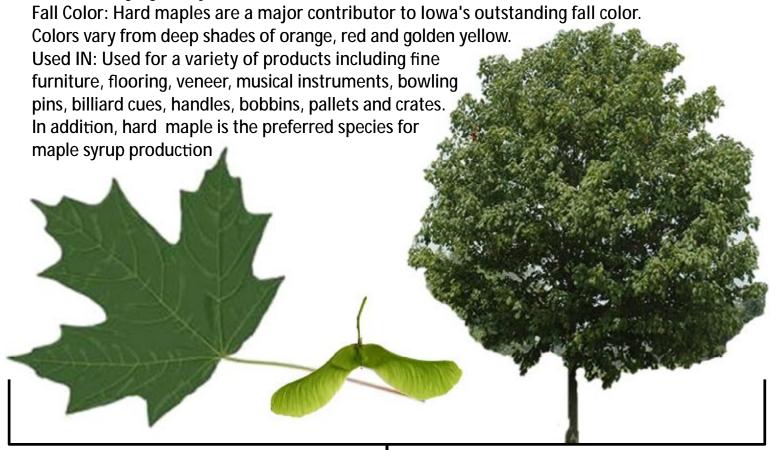
Mature Shape: Maples typically have a large, rounded crown, tree canopies may be very

dense or wide spreading Height: 80 - 100 feet Width: 40 - 60 feet

Leaves: Opposite, simple Flowering Dates: May

Seed Dispersal Dates: Late Summer - Early Fall

Seed Bearing Age: 30 years



Box Elder (Acer negundo)

Box elders are a soft maple that has a com-pound leaf, resembling that of ashes. One of five maples that grow in lowa this soft maple. This native tree, while very cold hardy, is not widely sold due to its ability to self-seed aggressively. It also attracts boxelder bugs which often enter homes in fall.

Habitat: Found throughout Iowa. Native to wet soil and river bottoms, their population has greatly increased in urban areas because they are highly adaptable. Because of its rapid growth on good soils, it has been planted frequently for shade and ornamental purposes in areas where other trees do not grow well

Hardiness: Zones 3 through 8

Growth Rate: Fast, short lived tree is quite brittle and is of little value

Mature Shape: Short stemmed tree of irregular shape

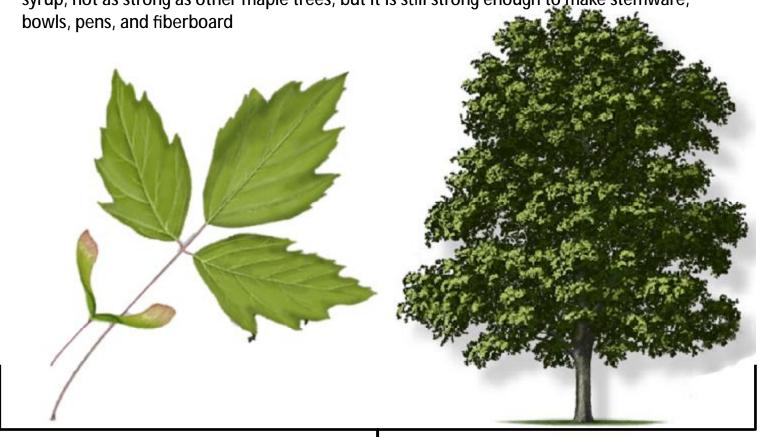
Height: 40 - 60 feet Width: 30 - 40 feet

Leaves: Opposite compound Flowering Dates: March - May

Seed Dispersal Dates: September - March

Seed Bearing Age: 2-4 years Fall Color: Orange and yellow

Used IN: Planted as a shade and shelterbelt tree, as food for wildlife, tapped to make maple syrup, not as strong as other maple trees, but it is still strong enough to make stemware,



Silver Maple (Acer saccharinum)

One of the fastest growing and tallest maples in lowa. Making it somewhat susceptible to wind damage and breakage later in life. The silver maple is the most common, and was used widely by the early settlers for planting in groves about their farmsteads.

Habitat: Grows on dry open woods, rocky bluffs and pastures. Found throughout lowa. Grows in a wide range of soil types but prefers deep, moist, acidic soil. It can withstand some flooding and has moderate drought tolerance.

Hardiness: Zones 3 through 9

Growth Rate: Fast rate, with height increases of more than 24" per year Mature Shape: Large, rounded crown, can be very dense or wide spreading

Height: 50 - 80 feet Width: 35 - 50 feet

Leaves: Opposite simple

Flowering Dates: March - May

Seed Dispersal Dates: October - December

Seed Bearing Age: 10 years

Fall Color: Green-yellow brown to yellow to brown

Used IN: Veneer, paper (pulpwood), boxes, crates/pallets, musical instruments, turned objects, and other small specialty wood items

Bur Oak (Quercus macrocarpa)

In 1961, the lowa General Assembly designated the "oak" as lowa's official state tree. Many people have come to recognize the bur oak as lowa's state tree since it is the only species found throughout the entire state. It can be argued that, no other group of trees is more important to both rural and urban forests in lowa. Twelve different species of oaks are native to lowa. lowa oaks are separated into either of two groups: red oaks or white oaks. A member of the broad white oak group Bur Oaks are characterized by having rounded lobes on the leaves.

Habitat: Adapted to a wide range of sites and soils, from very dry exposures to good soils

which are fertile and moist. Found throughout the state

Hardiness: Zones 3 through 8

Growth Rate: Slow rate, with height increases of less than 12" per year, long lived

Mature Shape: Broad, rounded

Height: 70 - 80 feet Width: 80 feet

Leaves: Alternate, simple, lobed. Lobes have rounded tips

Flowering Dates: April - May

Seed Dispersal Dates: September - October

Seed Bearing Age: 35 years



Red Oak (Quercus rubra)

A member of the broad red oak group characterized by having bristles or points on the leaf lobes and acorns which mature in two growing seasons and sprout in the spring after maturity. Red oak is one of the best native oaks for landscaping because of its fast growth rate and its wide adaptability of sites. It is a much better oak for landscaping than the pin oak because of pin oak's susceptibility to iron chlorosis. In addition, it is more reliable for fall color development.

Habitat: Found growing on moist upland woods. Rare in northwest lowa. Best growth in

moist, well-drained soils. Adaptable to adverse soil conditions

Hardiness: Zones 3 through 8

Growth Rate: Fast rate, with height increases of more than 24" per year

Mature Shape: Broad, rounded

Height: 50 - 75 feet Width: 40 - 70 feet

Leaves: Alternate, simple, lobed. Lobes have pointed tips

Flowering Dates: April - May

Seed Dispersal Dates: Late September - October

Seed Bearing Age: 25 years

Fall Colors: Fall color is variable and ranges from red, orange red to deep reddish brown Used IN: The wood of red oak is hard, strong, and heavy like that of other oaks, but is less durable although easier to machine than white oak. Current demand for red oak lumber and veneer is high because of its increased use in both the furniture and housing industries. Other uses include pallet lumber reilroad Figs. and Franced.



White Oak (Quercus alba)

A member of the broad white oak group, is characterized by having rounded lobes on the leaves. The strength, hardness, durability, and widespread availability of white oak have made its wood one of the most important hardwoods in the US and Iowa.

Habitat: Best growth in moist, well-drained soils. Grows on upland woods and dry slopes. Adaptable to adverse soil conditions. Common in most of the state except northwest lowa.

Hardiness: Zones 3 through 9

Growth Rate: This tree grows at a slow to medium rate, with height increases of anywhere

from less than 12" to 24" per year Mature Shape: Oval or rounded shape

Height: 50 - 80 feet Width: 50 - 80 feet

Leaves: Alternate, simple, lobed; with rounded tips

Flowering Dates: May

Seed Dispersal Dates: October Seed Bearing Age: 20 years

Fall Colors: Great fall color, with leaves turning showy shades of red or burgundy Used IN: Railroad ties and timbers, flooring, furniture and paneling. Its density has also



Sycamore (Platanus occidentalis)

The sycamore is a grand, stately shade tree for a larger site. It has broad green leaves but is most recognizable by its peeling bark, with patches of white and gray. Is one of lowa's largest trees; it attains diameters of 4-7 feet and heights of over 100 feet. Sycamore has often been planted as a shade or street tree in lowa because of its fast growth, excellent shade, handsome appearance, and its ability to withstand winds. It has strong wood and lives much longer than many other fast growing trees.

Habitat: Prefers deep, moist, rich soil. Sycamores are found growing naturally in bottomlands,

and banks of rivers or streams Hardiness: Zones 4 through 9 Growth Rate: Moderate to Fast

Mature Shape: A massive trunk and wide spreading crown with large, crooked branches

Height: 75 - 100 feet Width: 75 - 100 feet

Leaves: Alternate, simple, lobed, with pointed tips

Flowering Dates: March - April

Seed Dispersal Dates: February - April

Seed Bearing Age: 10 years Fall Color: Yellow brown leaves



Eastern Cottonwood (Populus deltoides)

The fastest growing and largest tree found in lowa. The largest specimen in lowa is over 11 feet in diameter, 80 feet tall and more than 85 feet in width. As a shade tree or landscape plant, cottonwood is not used extensively because it is not an extremely sturdy and durable tree. The advantage of cottonwood for landscape or windbreaks is its fast growth rate. For most shade or windbreak uses, select a male selection to avoid the cotton problem during seed production.

Habitat: Found growing along lakes, streams and wetlands where is does best and is well adapted to these wetter environments. Its preferred environment for rapid growth is the moist, well drained bottomland soils, but it will grow and do moderately well on a wide variety of sites from droughty uplands, to moderately wet soils. Trees are tolerant of drought and air pollution.

Hardiness: Zones 2 through 9

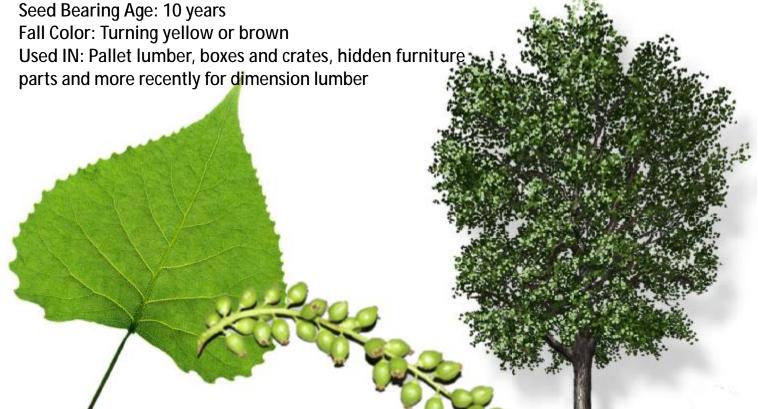
Growth Rate: Fast, young trees grow in excess of 6 feet in height each year

Mature Shape: Develops an open, spreading crown and become ragged and irregular with age

Height: 75 - 100 feet Width: 50 - 75 feet

Leaves: Alternate, simple, single toothed, triangle shaped

Flowering Dates: March - May Seed Dispersal Dates: May - August



American Elm (Ulmus americana)

Once an abundant species in lowa's native woodlands and urban forests. The American elm was probably perfect street tree; it was easy to plant, transplant, grew fast, and its vase-shape was perfect for the American street. Its loss was a serious blow to communities in lowa both in terms of removal costs and how to replace its many shade tree benefits. Most of the large trees are gone, except for a few vintage survivors which have managed to escape the disease. Some of these resistant varieties are now becoming commercial available for use in the urban landscape. Even though Dutch elm disease has killed most of the large elm in lowa, American elm is still a component of woodlands in the state.

Habitat: Grows in bottomland areas. Can be found throughout Iowa. American elms grow best in full sun to part shade and moist well drained soils. Elms are adaptable to adverse soil conditions.

Hardiness: Zones 2 through 9 Growth Rate: Moderate to Rapid

Mature Shape: Upright, spreading, and vase-shaped canopy

Height: 75 - 125 feet Width: 60 - 120 feet

Leaves: Alternate, simple, double-toothed with unequal leaf bases

Flowering Dates: February - May Seed Dispersal Dates: March - June

Seed Bearing Age: 15 years Fall Color: Yellow leaves



Black Walnut (Juglans nigra)

The most valuable tree in lowa, black walnut has been used a lot as a shade tree, it is considered to be a poor choice because its relatively open crown provides less shade than other species, its leaves tend to drop early and the nuts tend to be messy. However it is prized for its nuts which proved a distinctive taste for baked products.

Habitat: Grows in most of the state. Rich, well-drained soils of bottomlands, terraces and lower slopes. It can tolerate drier soils, but will grow much more slowly in dry conditions Hardiness: Zones 4 through 9

Growth Rate: This tree grows at a medium rate, with height increases of 13–24" per year Mature Shape: Usually has a full, well-formed trunk with no branches for quite some distance

from the ground. The crown is oval to rounded and somewhat open

Height: 50 - 75 feet Width: 30 - 50 feet

Leaves: Alternate compound with more than 11 leaflets

Flowering Dates: April - June

Seed Dispersal Dates: October - November

Seed Bearing Age: 12 years Fall Color: Yellow leaves

Used IN: Iowa continues to rank as one of the leading producers of walnut lumber and veneer. The rich brown color, attractive grain of the wood, and the woodworking quality of



Green Ash (Fraxinus pennsylvanica)

One of our most adaptable native trees. It has been used extensively for a shade tree because of its adaptability and relatively fast growth rate. Most shade tree selections are male to avoid seed production. Due to the emerald ash borer ash trees are no longer suggested for plantings.

Habitat: Grows on the edges of moist woods. Found throughout the state. Native to lowa, ash trees grow best in full sun and moist, well-drained soils. Ash trees are tolerant of a wide range of soil conditions.

Hardiness: Zones 2 though 9

Growth Rate: This tree grows at a fast rate, with height increases of more than 24" per year

Mature Shape: Slightly pyramidal, upright with a rounded crown

Height: 50 - 80 feet Width: 25 feet

Leaves: Opposite, pinnately compound leaves with 5 to 9 leaflets (usually 7)

Flowering Dates: March - May

Seed Dispersal Dates: October - Spring

Seed Bearing Age: 10 years Fall Color: Golden yellow leaves

Used IN: Its wood is hard, tough, and relatively straight grained and used for a variety of products from flooring, millwork, boxes/crates, baseball bats, and other turned objects such



Shagbark Hickory (Carya ovata)

The most common of the hickories in lowa. Shagbark is one of the easiest trees to identify because its bark separates into large, irregular shaped strips that curve out at both ends, giving the trunk a rough, shaggy appearance. Shagbark hickory has not been used extensively for landscape applications, primarily because of its relatively slow growth rate and difficulty in transplanting. It is a desirable landscape plant because of its relatively long life (200-300 years) and good resistance to both insects and diseases.

Habitat: Thrives in rich and well-drained loams, but is adaptable to many soil types

Hardiness: Zones 4 through 8

Growth Rate: Slow rate, with height increases of less than 12" per year

Mature Shape: Straight, cylindrical trunk with a oblong crown of ascending and descending

branches

Height: 60 - 80 feet Width: 30 - 40 feet

Leaves: Alternate, compound with five to nine leaflets

Flowering Dates: April - June

Seed Dispersal Dates: September - December

Seed Bearing Age: 40 years Fall Color: Golden brown leaves



Honey Locust (Gleditsia triacanthos)

Also known as thorny locust or thorn tree, is a medium sized tree with pleasing, graceful foliage. The native species of honey-locust has large thorns on its stems and bark. For this reason, thorn less honey locust, also known as *Gleditsia triacanthos f. inermis*, is most commonly sold. Planted for urban use because of its open foliage, tolerances to the urban environment and fairly fast growth rate.

Habitat: Found in bottomland woods, old pastures, and sandy prairies. Common throughout most of lowa. Adaptable to most soils. Readily transplanted. One of our most adaptable native trees

Hardiness: Zones 4 through 9

Growth Rate: Fast. As a young tree, it will grow 2 feet or more per year over a ten year period

Mature Shape: Upright, spreading. Very delicate and sophisticated silhouette

Height: 70 - 80 feet Width: 20 - 40 feet

Leaves: Alternate, compound, with thorns or spines

Flowering Dates: May - June

Seed Dispersal Dates: September - Winter

Seed Bearing Age: 10 years Fall Color: Yellow leaves

Used IN: Reddish wood is strong, coarse grained and moderately durable. Its common uses

have included fence post, railroad ties, furniture, interior woodwork and fuel wood



Ginkgo (Ginkgo biloba)

Ginkgo is a hardy, pest-resistant, attractive large tree with unusual fan-shaped leaves. Only male trees should be purchased, as the females produce seeds with a soft, fruitlike covering that can be messy and have a potent odor. Hailed as "undoubtedly one of the most distinct and beautiful of all deciduous trees," the ginkgo certainly stands out. This tree also comes with a bit of history. It is a living fossil, with the earliest leaf fossils dating from 270 million years ago.

Habitat: Grows in acidic, alkaline, loamy, moist, rich, sandy, silty loam, well-drained, wet and clay soils. It tolerates moderate drought and wetness but doesn't grow well in hot, dry climates

Hardiness: Zones 3 through 8

Growth Rate: Medium rate, with height increases of 13 - 24" per year

Mature Shape: Pyramidal shape

Height: 25 - 50 feet Width: 25 - 35 feet

Leaves: Simple, fan-shaped bright green leaves that are 2 - 3" long and just as wide

Flowering Dates: August - October

Seed Dispersal Dates: Late Fall early Winter

Seed Bearing Age: 30 - 40 years Fall Color: Vivid yellow leaves

Used IN: Seeds and leaves have been (and are still today) used in medicine throughout the



Red Bud (Cercis canadensis)

In lowa the red bud is a small tree or large shrub with coarse foliage and a spreading, open crown. The red bud is used widely as an ornamental because of the rose-pink flowers which appear early in the spring along the branches before the leaves appear.

Habitat: Grows in ravines, bottomland woods and wooded bluffs, in lowa it is found mostly scattered through existing woodlands, adaptable to a wide range of soils and moistures

Hardiness: Zones 4 through 9

Growth Rate: Medium rate, with height increases of 13-24" per year

Mature Shape: Rounded Height: 20 - 30 feet Width: 25 - 35 feet

Leaves: Heart-shaped leaves 2 - 6" in length

Flowering Dates: March - May

Seed Dispersal Dates: Late Summer - November

Seed Bearing Age: 5 years Fall Color: Yellow leaves

Used IN: Flowers and young legumes are edible, extracts from the inner bark and roots were used to treat colds, flu and fever, the branches and stems have been used for basketry, and as



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White Poplar (Populus alba)

White poplars have invasive traits that enable them to spread aggressively. While these trees have demonstrated invasive traits, there is insufficient supporting research to declare them so pervasive that they cannot be recommended for any planting sites. Review of risks should be undertaken before selecting these trees for planting sites.

Habitat: In moist sites and full sun Hardiness: Zones 3 through 8

Growth Rate: Fast

Mature Shape: Narrow to rounded

Height: 65 - 100 feet Width: 40 -70 feet

Leaves: Alternate, simple, with lobed and pointed tips

Flowering Dates: April - May Seed Dispersal Dates: May - June Seed Bearing Age: 10 - 15 years

Fall Color: Yellow leaves

Used IN: Wood is soft, and used for cellulose and to make cheap boxes, yellow dye



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