

**Hamilton County Master Gardeners Association of Indiana
Recommended Large Deciduous Trees**

<u>Botanical Name</u>	<u>Common Name(s)/ Cultivars'</u>	<u>Mature Height</u>	<u>Mature Spread</u>	<u>Bloom</u>	<u>Bloom Color</u>	<u>Sun</u>	<u>Water</u>	<u>Maintenance</u>	<u>Shape</u>	<u>Growth</u>	<u>Fall Color</u>	<u>Notes / Designated Street Tree in (C)armel, (N)oblesville, (F)ishers, (W)estfield</u>
Large Trees: Suitable for large yards and tree lawns at least 8 feet wide and not under utility wires (check for town approval):												
Acer nigrum	Black maple	60-80'	40-70'	April	Greenish	Full sun to part shade	Medium	Low	Ovate with dense crown & short trunk	Moderate, can live 400 years	Showy yellow, orange or red	Sensitive to road salt, heat, soil compaction and drought. Beautiful tree for spacious yard. Can also be tapped for maple syrup. Attracts many types of birds. N
Acer saccharum	Sugar maple	60-80'	40-70'	April	Greenish	Full sun to part shade	Medium	Low	Ovate	Moderate, can live 400 years	Brilliant yellow, orange or red	Sensitive to road salt, heat, soil compaction and drought. Beautiful tree for spacious yard. Long lived. Attracts many types of birds. FNW
Betula nigra	River Birch	40-70'	40-60'	Apr-May	brown (male), green (female)	Full sun to part shade	Medium to wet	Low	Single trunk or multi stemmed	Fast, can live 100 years	Yellowish	Beautiful exfoliating creamy white bark. Prune in summer to avoid sap loss. Susceptible to chlorosis in alkaline soils. Tolerates temporary flooding and clay soils. Attracts many types of birds. C
Betula nigra 'Cully'	Heritage® River Birch	40-70'	40-60'	Apr-May	brown (male), green (female)	Full sun to part shade	Medium to wet	Low	Single trunk or multi stemmed	Fast, can live 100 years	Yellowish	Beautiful exfoliating creamy white bark . This cultivar's bark stays lighter longer and has better disease resistance. Prune in summer to avoid sap. Attracts many types of birds.
Carya illinoensis	Northern pecan	75-100'	40-70'	Apr-May	Greenish yellow	Full sun	Medium	Medium	Massive, oval	Moderate, can live 350 years	Pale yellow	Prefers rich well drained moist soils & intolerant of drought. Difficult to transplant due to tap root. Needs large space. Good wildlife food source. Purchase locally to ensure tree is adapted to planting zone as in northerly zones nuts may not fully ripen.
Carya lachinosa	Shellbark hickory, Bigleaf shagbark, Kingnut	60-80'	40-60'	Apr-May	Greenish yellow	Full sun	Medium to wet	Low	Ovate	Slow to moderate, can live 350 years	Yellowish brown	Prefers rich well drained moist soils & will tolerate wet sites. Difficult to transplant due to tap root. Needs large space. Good wildlife food source.
Carya ovata	Shagbark hickory	70-90'	50-70'	Apr-May	Greenish yellow	Full sun to part shade	Medium	Low	Impressive tree with oval crown & shaggy exfoliating bark	Moderate, can live 250 years	Gold and showy	Prefers rich well drained moist soils & will not tolerate wet sites. Difficult to transplant due to tap root. Needs large space. Good wildlife food source.
Catalpa speciosa	Northern catalpa, Cigar tree	40-70'	20-50'	May - June	Fragrant showy white with purple & yellow interior spotting orchid-like	Full sun to part shade	Medium to wet	Medium, a little messy	Symmetrically rounded	Fast, can live 100 years	Unremarkable yellow	Tolerates wide range of soils & urban pollution. No serious diseases or pests. Has huge leaves, 12-22" long seed pods, & somewhat brittle wood. The catalpa sphinx caterpillar, prized by fishermen, eats the leaves. It's an interesting site to watch the fishermem shake the trees hoping the caterpillars will fall down and become free bait.
Celtis occidentalis	Hackberry	60-80'	60-80'	Apr-May	Green	Full sun to part shade	Medium to wet	Low	Upright	Fast, can live 200 years	Unremarkable yellow	Attracts 48+ species of birds & butterflies, grayish warty bark, susceptible to witches brooms & nipple gall on leaves which does not harm the tree. Tolerant of wide range of soils and pollution but prefers rich, moist soil. Old trees prone to wind & ice damage. CN
Celtis laevigata	'All Seasons' Sugar Hackberry, Southern hackberry, Sugarberry	60-80'	60-80'	Apr-May	Green	Full sun to part shade	Medium to wet	Low	Upright	Fast, can live 150 years	Unremarkable yellow	Southern version of hackberry with greater resistance to witches broom but less winter hardiness. Subject to nipple gall on leaves which does not harm the tree. Shorter life than hackberry. C
Fagus grandifolia	American beech	50-80'	40-80'	Apr-May	Yellowish green	Full sun to part shade	Medium	Low	Upright oval to rounded spreading crown	Slow, can live 400 years	Golden bronze & persist through winter	Beautiful stately tree with distinctive smooth thin gray bark. Intolerant of poorly drained soils & urban pollution. Shade tolerant. Good wildlife food source.
Fagus sylvatica	European beech (non-native)	50-60'	35-45'	Apr-May	Yellowish green	Full sun to part shade	Medium	Low	Broad, dense and pyramidal	Slow, can live 400 years	Reddish bronze & persist through winter	Beautiful stately tree with distinctive smooth thin gray bark. Intolerant of poorly drained soils, urban pollution and salt spray. Branches generally touch ground, grass tends not to grow under canopy, tends to sucker. Leaves are glossy dark green with reddish tint. Good for large open spaces. Preferably planted in spring. Slow to leaf out. C
Ginkgo biloba	Ginkgo, Maidenhair, (non-native) male only	50-80'	30-40'	April	Green	Full sun	Medium	Low	Conical when young to spreading lateral branches with age	Slow, can live 150 years	Showy golden yellow	Tolerates wide range of soil conditions, urban pollution and salt spray. Distinctive emerald green fan shaped leaves. The female is not planted owing to its smelly fruit. CFNW

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Large Trees: Suitable for large yards and tree lawns at least 8 feet wide and not under utility wires (check for town approval):												
Gleditsia triacanthos inermis	Thornless honeylocust, 'Moraine,' 'Shademaster,' 'Skyline'	60-80'	60-80'	May - June	Greenish yellow	Full sun	Medium	Medium	Rounded spreading crown	Moderate, can live 120 years	Yellow	Cultivars are thornless with few, if any, seed pods. 'Shademaster' is reputedly least prone to insect and storm damage. 'Moraine' has wisper foliage allowing grass to grow well under the canopy. Hardy & tolerant. Noblesville recommends 'Imperial' cultivar only. CFNW
Gymnocladus dioicus	Kentucky coffee tree	60-80'	40-55'	May - June, showy & fragrant	Greenish white	Full sun	Medium	Medium - large leaf parts & fruit can be messy	Irregularly ovate	Moderate, can live 100 years	Yellow	Soil tolerant but avoid heavy clay. Leaves out late and drops leaves early. Female trees produce brown pods with seeds that can be roasted to produce a caffeine free coffee like beverage. Select male tree to avoid litter. Very hardy - no pest or disease problems & not bothered by wind or ice. CF
Juglans nigra	Black walnut	75-100'	75-100'	May - June	Yellowish green	Full sun	Medium	Medium	Upright, massive with high canopy	Moderate & can live 250 years	Fine yellow, early	Prefers organically rich soils & intolerant of shade & standing water. Difficult to transplant due to taproot. Best furniture wood of any native tree. Check on-line reference "Black Walnut Toxicity" as tomato plants and apple trees are sensitive to juglone secreted by walnut tree roots.
Liquidambar styraciflua	Sweetgum/'Rotundiloba'	60-80'	40-60'	April - May	Yellow green	Full sun	Medium	Medium as some consider spiky seed balls a litter problem	Oval rounded crown	Moderate, can live 400 years	Showy red, orange & yellow	Prefers acidic fertile soil but somewhat tolerant. Branchlets have distinctive corky ridges. Leaves are fragrant when bruised. Spiky balls make good mulch and keep slugs off hostas. "Rotundiloba" is fruitless if you prefer litter free tree. Transplant young as it has a taproot. F
Liriodendron tulipifera	Tuliptree, Yellow poplar, Tulip poplar	60-90'	30-50'	May - June	Yellow with orange band	Full sun	Medium	Low	Arrow straight trunk with conical to ovate shape	Fast, can live 400 years	Pretty golden yellow	This tallest deciduous hardwood tree in North America needs ample space. Prefers moist well drained sites, may show drought stress by premature dropping leaves. Occasional storm damage. Transplant young as it has a taproot. CW
Magnolia acuminata	Cucumber tree	40-70'	20-35'	April - May	Greenish yellow	Full sun to part shade	Medium	Low	Conical to broadly ovate	Fast, can live 150 years	Gold and showy	Good tree for large space. Large leaves and cucumber like fruits turn bright red in late summer. Prefers moist organic well drained loams. Thin bark is easily damaged. C
Platanus occidentalis	Sycamore, American planetree, buttonwood	75-100'	75-100'	April	Yellow - male red - female	Full sun	Medium to wet	High, significant litter clean up of twigs, bark, leaves & seed balls	Upright broad & rounded with gray exfoliating bark revealing creamy white inner bark	Moderate to fast, can live 600 years	Yellow brown	Largest diameter deciduous tree in North America. Prefers rich organic soils, tolerant of urban pollution. Intolerant of shade. Susceptible to anthracnose. The London plane tree is a hybrid of the Sycamore and Oriental plane tree.
Prunus serotina	Black cherry, Wild cherry, Wild rum cherry	50-80'	30-60'	April - May	Fragrant white racemes	Full sun to part shade	Medium	Low	Narrow columnar to rounded crown with low canopy	Moderate to fast, can live 200 years	Attractive yellow & rose	Tolerates wide range of soils and urban pollution. Prefers full sun. Good for natural area as it attracts 84+ species of birds. Hard to find at nurseries. The cherries have a bitter taste but can be used for jelly. The bark is used for cough syrup flavoring.
Quercus alba	White oak	50-80'	50-80'	May	Yellow green 3" catkins (male), insignificant (female)	Full sun	Dry to medium	Medium	Stately wide spreading rounded crown & high canopy	Slow, can live 400 years	Striking reddish & purplish	Requires acidic soil. Prefers rich loamy soil but somewhat adaptable. Tolerates drought & salt spray. Give plenty of space. Attracts 60+ species of birds. Illinois state tree. W
Quercus macrocarpa	Bur oak, Mossycup oak	60-80'	60-80'	April	Yellow green 3-6" catkins (male), small red clusters (female)	Full sun	Dry to medium	Low	Majestic and rounded	Moderate to fast, can live 400 years	Copper	Acorns are covered at rim with mossy scale giving its name. Adapts to urban alkaline soil, drought & salt spray. Beautiful tree for spacious yard with no serious pest problems. Attracts 60+ species of birds. CW
Quercus muehlenbergii	Chinkapin oak, Yellow chestnut	40-60'	50-60'	June	Hairy yellow 4" clusters (male), tiny hairy spikes at leaf base (female)	Full sun	Dry to medium	Low	Open globular crown	Moderate, can live 400 years	Showy yellow & long lasting	Prefers rich well drained acidic soil. Resistant to salt spray but will not tolerate flooding. Prune to central leader with widely spaced branches. Acorns are edible. Should be more popular. Attracts 60+ species of birds. CW
Quercus phellos	Willow Oak	40-75'	25-50'	May	Yellowish green, insignificant	Full sun	Dry to medium	Low	Upright oval to rounded crown	Fast, can live 300 years	Yellow brown	Smooth edged narrow leaves are willow like. Prefers acidic soil & one of the easiest oaks to transplant. Attracts 60+ species of birds. W
Quercus rubra	Red Oak	50-75'	50-75'	June	Slender hairy 4" clusters (male), tiny hairy spikes at leaf base (female)	Full sun	Dry to medium	Low	Upright rounded crown	Moderate to fast, can live 300 years	Dark red, showy	Prefers well drained soils, needs ample space. Prefers acidic soils but tolerates, pollution, compacted soils, & salt spray though not flooding. Attracts 60+ species of birds. CFNW

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Tilia americana	American linden, American basswood	50-80'	30-50'	June	Fragrant pale yellow	Full sun to part shade	Medium	Low	Pyramidal or oval	Moderate to fast, can live 200 years	Yellow, showy	Susceptible to Japanese beetles, aphids, mites but seldom serious. Remove suckers & lower drooping branches. Attracts honey bees. Best grown as a specimen or shade tree with plenty of room. Intolerant of salt spray or drought. Attracts songbirds & bluejays. W
Tilia cordata	Little-leaf linden (non-native)	50-70'	35-50'	June	Fragrant creamy yellow racemes	Full sun to part shade	Medium	Low	Pyramidal with central leader	Moderate, can live 70 years	Yellow, yellow-green, not showy	Prefers moist rich well drained soil, but is pH adaptable and tolerates urban conditions. Attracts butterflies & bees and can be bothered by Japanese beetles and aphids. NW
Ulmus parvifolia	Accolade® Elm	60-70'	35-55'	September	Tiny red clusters in leaf axils in early autumn	Full sun	Medium	Low	Vase shaped	Fast, can live 100 years	Yellowish	Excellent resistance to Dutch elm disease, adaptable to wide range of urban conditions. Carmel & Noblesville recommend cultivar 'Lacebark elm', Noblesville also recommends 'Pioneer elm'. Attracts songbirds. Bark peels in gray-brown scales. NW
See (C)armel, (F)ishers, (N)oblesville and (W)estfield's web sites for detailed recommendations regarding planting trees between the street and sidewalk.												