

Potential Street Trees for the Town of Winfield, Indiana

Common Name	Botanical Name	Growth Rate ^a	Form	Remarks
TALL TREES – 40-100 feet in height; plant at least 40-50 feet apart; columnar species, 20-30 feet apart				
Ash, Fallgold ^b	<i>Fraxinus nigra</i> 'Fallgold'	M	Oval	Urban; seedless; dark green foliage; golden yellow fall color; pest problem limits use
Ash, Green (G.A.) ^b	<i>Fraxinus pennsylvanica</i>	F	Oval-irregular	Dry to wet soil; tolerates poor drainage; twiggy and weak-wooded; yellow fall color; pest problems limits use
Aerial G.A.	'Aerial'	F	Columnar	Narrow, upright branching
Marshall Seedless G.A.	'Marshall Seedless'	F	Oval	Seedless; glossy, dark green foliage; improving habit of growth
Patmore G.A.	'Patmore'	F	Oval	Seedless; shining green leaves; yellow fall color; straight trunk
Summit G.A.	'Summit'	F	Upright	Finer textured foliage
Ash, White (W.A.) ^b	<i>Fraxinus americana</i>	M	Round	Moist soil; tolerates poor drainage; dioecious (requiring pollination); orange to purple fall color; salt-tolerant, pest problem limits use
Autumn Applause W.A.	'Autumn Applause'	M	Oval	Seedless; deep red fall color
Autumn Purple W.A.	'Autumn Purple'	M	Round	Seedless; superior fall color
Champaign County W.A.	'Champaign County'	M	Oval	Seedless; shiny dark green foliage; yellow to purplish fall color
Rosehill W.A.	'Rosehill'	S	Oval	Seedless; dark green foliage; bronze-red fall color
Skyline W.A.	'Skyline'	M	Oval	Seedless; upright habitat
Coffeetree, Kentucky (K.C)	<i>Gymnocladus dioica</i>	M	Upright	Moist, rich soil; coarse and rugged; dioecious; litter problem; fruitless cultivars available; good for parking lots
Espresso K.C.	'Espresso'	M	Upright	Drought tolerant; blue-green foliage; podless
Prairie Titan K.C.	'J.C. McDaniel'	M	Upright	Drought tolerant; blue-green foliage; podless
Elm, Hybrid (H.E.)	<i>Ulmus x 'Hybrids'</i>	F	Upright	Dutch elm disease (DED) resistant; urban
Accolade H.E.	'Morton'	F	Vase	DED resistant; urban
Frontier H.E.	'Frontier'	S	Upright	DED resistant; urban
Homestead H.E.	'Homestead'	F	Upright	DED resistant; salt and drought tolerance
New Horizon H.E.	'New Horizon'	F	Pyramidal	DED resistant; urban
Patriot H.E.	'Patriot'	F	Vase	DED resistant; urban
Pioneer H.E.	'Pioneer'	F	Round	DED resistant; urban
Triumph H.E.	'Morton Glossy'	F	Vase	DED resistant; urban
Valley Forge H.E.	'Valley Forge'	F	Upright	DED resistant; urban
Elm, Japanese (J.E)	<i>Ulmus davidiana</i> var. <i>japonica</i> and cvs.	S	Vase	DED resistant; urban
Discovery J.E.	'Discovery'	S	Vase	DED resistant; urban
Prospector J.E.	'Prospector'	M	Vase	DED resistant; urban
Filbert, Turkish	<i>Corylus colurna</i>	M	Pyramidal	Urban; well-drained soil; dark green foliage, nuts
Ginkgo (G.); Maidenhair Tree (Male only)	<i>Ginkgo biloba</i>	S	Pyramidal	Urban; dioecious, females produce foul smelling fruits; fan-shaped leaves; golden yellow fall color
Autumn Gold G.	'Autumn Gold'	S	Conical	Urban; fruitless; yellow fall color
Fairmount G.	'Fairmount'	S	Pyramidal	Urban; fruitless; yellow fall color
Lakeview G.	'Lakeview'	S	Columnar	Urban; fruitless; yellow fall color
Sentry G.	'Fastigiata'	S	Columnar	Fruitless; yellow fall color
Hackberry, Common (C.H)	<i>Celtis occidentalis</i>	M	Vase	Tolerates alkaline soils; "pebbled" bark; hard black fruits; yellowish fall color; pest or disease problem and witch's broom may limit use
Prairie Pride C.H.	"Prairie Pride"	M	Vase	Superior branch structure; glossier leaves; no witches' broom
Honeylocust, Thornless Common (T.C.H)	<i>Gleditsia triacanthos</i> var. <i>Inermis</i>	F	Vase	Tolerates poor drainage; thornless, as are all the following; pest or disease problem may limit use; salt-tolerant; good for parking lots
Imperial T.C.H.	'Impcole'	F	Round	Podless; low-growing; pest or disease problem may limit use
Majestic T.C.H.	'Majestic'	F	Irregular	Podless; resistant to diseases; pest problems may limit use
Moraine T.C.H.	'Moraine'	F	Irregular	Usually fruitless; dense foliage
Shademaster T.C.H.	'Shademaster'	F	Irregular	Podless; vase shape in age; pest or disease problem may limit use
Skyline T.C.H.	'Skycole'	F	Upright	Podless; tends to form central leader; good golden fall color; pest or disease problem may limit use
Horsechestnut, Bauman	<i>Aesculus hippocastanum</i> "Baumannii"	M	Round	Urban; showy white flowers; fruitless
Linden, American (A.L.); Basswood	<i>Tilia americana</i>	M	Rounded	Salt-sensitive; coarse, rich soils
American Sentry L.		M	Pyramidal	Urban; shiny dark green foliage
Redmond A.L.		M	Pyramidal	Urban; dark green foliage
Linden, Littleleaf (L.L)	<i>Tilia cordata</i>	S	Pyramidal	Urban; moist soil; fragrant flowers; poor branch structure, needs training while young; yellow fall color
Chancellor L.L.	'Chancole'	S	Pyramidal	Uniform, upright habit
Glenleven L.L.	'Glenleven'	M	Pyramidal	Straight, upright habit
Greenspire L.L.	'Greenspire'	S	Pyramidal	Improved branching habit

TALL TREES – 40-100 feet in height; plant at least 40-50 feet apart; columnar species, 20-30 feet apart (continued)				
Maple, Red (R.M.)	<i>Acer rubrum</i>	F	Round	Moist, acid soil; tolerates poor drainage; smooth gray bark turns flaky with age; yellow, orange, or red fall color; good for parking lots
Autumn Flame R.M.	'Autumn Flame'	F	Round	Early, scarlet fall color; good for parking lots
Bowhall R.M.	'Bowhall'	F	Oval	Orange fall color
Red Sunset R.M.	'Red Sunset'	F	Round	Late, scarlet fall color
Schlesinger R.M.	'Schlesinger'	R	Round	Red-orange fall color
Maple, Sugar (S.M.)	<i>Acer saccharinum</i>	M	Round	Sun; rich soil; salt-sensitive; oval when young; competitive roots; yellow, orange, or red fall color
Black Maple	ssp. <i>nigrum</i>	M	Round	Scorch-resistant; leathery leaves
Green Mountain S.M.	'Green Mountain'	M	Round	Scorch-resistant; leathery leaves
Legacy S.M.	'Legacy'	M	Round	Scorch-resistant; leathery leaves
Oak, Pin	<i>Quercus palustris</i>	M	Pyramidal	Moist, acid soil; acorns; pendulous lower branches; red fall color; iron chlorosis on alkaline soil
Oak, Red	<i>Quercus rubra</i>	M	Round	Urban; pyramidal when young; acorns; red fall color; well-drained soil; often sold as <i>Q. borealis</i>
Oak, Swamp White	<i>Quercus bicolor</i>	S	Round	Moist to wet soil; tolerates poor drainage; acorns
Planetree, London	<i>Platanus x acerifolia</i>	F	Pyramidal	Moist soil; tolerates poor drainage; mottled bark; maple-like leaves
MEDIUM TREES – 30-40 feet in height; plant at least 20-35 feet apart, depending on spread				
Cherry, Sargent (S.C.)	<i>Prunus sargentii</i>	M	Upright	Sun; well-drained soil; early pink flowers; red fall color
Columnar S.C.	'Columnaris'	M	Columnar	Glossy dark green foliage; red-orange fall color; polished bark
Elm, Emerald Sunshine	<i>Ulmus davidiana</i> var.	S	Vase	DED resistant; urban
Japanese	<i>Japonica</i> 'JFS-Bieberich'			
Elm, Lacebark; Chinese Elm	<i>Ulmus parvifolia</i>	M	Vase	DED resistant; exfoliating bark
Gum, Black; Black Tupelo	<i>Nyssa sylvatica</i>	S	Pyramidal	Acidic soil; tolerates poor drainage; dioecious; orange to scarlet fall color, bluish black fruits
Horsechestnut, Ruby Red	<i>Aesculus x carnea</i> 'Briotii'	S	Round	Rich, moist soil; cone-shaped red flowers; subject to sunscald; nearly fruitless
Pear, Callery (C.P.)	<i>Pyrus calleryana</i>			
Autumn Blaze C.P.	'Autumn Blaze'	M	Round	Most winter-hardy; horizontal branching; some thorns
Chanticleer C.P.	'Cleveland Select'	M	Columnar	Upright branches; thornless
LOW TREES – 15-30 feet in height; plant at least 15-30 feet apart, depending on spread				
Hawthorn, Cockspur (C.H.)	<i>Crataegus crusgalli</i>	S	Spreading	Urban; sun; persistent, brick red fruits; thorns; orange to red fall color
Thornless C.H.	var. <i>inermis</i>	M	Spreading	Few thorns; dark green foliage; bright red fruits
Hophornbeam; Ironwood	<i>Ostrya virginiana</i>	S	Pyramidal	Dry soil; shade; catkins; elm-like leaves; yellowish fall color
Hornbeam, American	<i>Carpinus caroliniana</i>	S	Spreading	Moist soil; shade; smooth, gray, muscle-like trunk; orange fall color
Blue Beech; Ironwood; Muscledwood				
Lilac, Japanese Tree (J.T.L.)	<i>Syringa reticulata</i>	S	Horizontal	Sun; large, pyramidal, cream-white fragrant flower cluster in June; tan fruits; salt-tolerant; cherry-like bark
Ivory Silk J.T.L.	'Ivory Silk'	S	Oval	Straight, single trunk
Summer Snow J.T.L.	'Summer Snow'	M	Round	Glossy dark green leaves; large creamy-white flowers; cherry-like bark
Maple, Globe Norway	<i>Acer platanoides</i> 'Globosum'	S	Round	Urban; dense canopy; yellow fall color; useful on a standard under utility wires; 20' height

NOTES: The following abbreviations represent: cvs. – cultivars; ssp. – subspecies; and var. – variety. A variety of trees should be planted for diversity and to help avoid the wide-spread loss of trees through disease and pest infestations. As a general guide, species diversity should be established with no more than 30 percent of plants from one "family", no more than 20 percent from one "genus", and no more than 10 percent from any single "species", including "cultivars" and "varieties".

^a The following letters represent: S - Slow; M - Moderate; and F - Fast.

^b The use of ash trees should be carefully considered due to presence of Emerald Ash Borer in Indiana.

Source: E. R. Hasselkus, Ph.D., A Guide to Selecting Landscape Plants for Wisconsin, 1998, and Laura G. Jull, Ph. D., Drought Tolerant Woody Landscape Plants, 2012, University of Wisconsin-Extension, Madison, Wisconsin; Michael A. Dirr, Manual of Woody Landscape Plants: Their Identification, Ornamental Characteristics, Culture, Propagation and Uses, 5th Ed., Stipes Publishing Company, Champaign, Illinois, 1998; Richard D. Schein, Ph.D., Street Trees: A Manual for Municipalities, Treeworks, State College, Pennsylvania, 1993; Henry D. Gerhold, Willet N. Wandell, and Norman L. Lacasse, Landscape Tree Factsheets, Pennsylvania State University, University Park, Pennsylvania, 2005; Henry D. Gerhold, Norman L. Lacasse, and Willet N. Wandell, Compatible Tree Factsheets for Electric Lines and Restricted Spaces, Including Evergreens for Screens, 2nd Ed., Pennsylvania State University, University Park, Pennsylvania, 2001; Frank S. Santamour, Jr., Trees for Urban Planting: Diversity, Uniformity, and Common Sense, U.S. National Arboretum-Agricultural Research Service, Washington D.C., 1990; and SEWRPC.