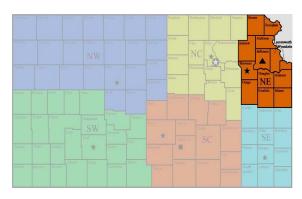
Preferred Trees for Northeast Kansas



Growing trees successfully depends on the selection of the right trees for the intended planting site. It is important to match the growing conditions and space available on the site with the cultural requirements and projected size of each tree to be planted. The following four charts show the tolerances of individual trees to various environmental conditions as well as the major landscape attributes of each tree. Not all recommended trees for planting in Northeast Kansas are included. The preferred trees listed were recommended by industry professionals such as city foresters, local tree boards, county and horticulture extension agents, commercial arborists, and retail/production nursery interests.

KEY TO USING THIS INFORMATION:

TREE SPECIES AND CULTIVARS: The names of the trees are listed in the center of the four charts. Three of the charts list deciduous trees according to average mature height (a plus sign (+) indicates they may grow slightly larger). The fourth chart lists evergreen trees. If improved cultivars of the trees are available and recommended, they are also listed. Cultivars often possess improved plant characteristics like better fall color, a unique form, more attractive flowers, fruit or bark, greater heat tolerance, or increased pest resistance. Many trees are available in single and multi-stemmed form. Multi-stemmed forms are more likely to be damaged from snow, ice, or wind.

ENVIRONMENTAL TOLERANCES: The left side of each chart indicates whether the tree is tolerant to various environmental conditions including full sun, light shade, alkaline soil, drought, or wet soil. Each chart also shows how resistant each tree is to pest insects and diseases. A "G" (for good) under the appropriate column indicates the tree is strongly tolerant of the characteristic indicated. A "F" (for fair) signifies that the tree shows some tolerance. A blank space in a column indicates the tree is not tolerant and should not be subjected to that environmental condition. Specific information on the alkaline soil and pest categories follows:

ALKALINE SOIL: **G** = tree may tolerate soils with a pH up to 8.0 or more; **F** = tree will tolerate an alkaline soil up to a pH of 7.5; **blank** = tree may not tolerate alkaline soils; do not plant in alkaline soils to avoid the problem of iron or manganese chlorosis.

PESTS: **G** = tree is usually free of insect and disease problems; **F** = tree encounters insect or disease pests on an infrequent basis and often is not permanently damaged; **blank** = tree may suffer from pests which may permanently damage or kill the tree and/or the tree may exhibit minor insect and disease problems on a frequent basis which may affect the aesthetics of the tree or insects may commonly be a nuisance.

LANDSCAPE ATTRIBUTES: The right side of each chart includes average mature height and spread of each tree. The size is sometimes variable due to the size and shape of different cultivars planted and variability among growing sites. The landscape attributes of flowers, fruit, autumn color, and ornamental bark are also listed.

DESIRABLE FLOWERS: \mathbf{G} = the flowers are showy, adding unique ornamental interest to the landscape; \mathbf{F} = the flowers are not particularly showy, but may possess other desirable characteristics such as fragrance; **blank** = the flowers are considered insignificant.

SHOWY OR USEFUL FRUIT: **G** = fruits or nuts are aesthetically pleasing; **F** = fruits or nuts are not considered unusually showy but may provide other interest or benefits such as attracting wildlife; **blank** = no showy or useful fruit.

AUTUMN FOLIAGE COLOR: **G** = the autumn leaf color is typically quite good (may vary with individual trees, cultivars and environmental conditions, however); **F** = the fall color may provide interest in some years; **blank** = autumn foliage color is not considered an asset of this particular tree.

ORNAMENTAL BARK: \mathbf{G} = the bark or twigs are considered to be exceptionally ornamental; \mathbf{F} = the bark or twigs (on at least some cultivars) lend interest to the landscape (good color, texture, etc.); **blank** = the bark or twigs are not considered to be ornamental.

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EN	F						LANDSCAPE ATTRIBUTES					
FULL SUN	LIGHT SHADE	ALKALINE SOIL (HIGH pH)	DROUGHT	WET SOIL	PESTS (RESISTANT TO)	(usually under 20 feet at maturity) Trees with mature height 20 feet or less can be used within 15	MATURE HEIGHT	MATURE SPREAD	DESIRABLE FLOWERS	SHOWY OR USEFUL FRUIT	AUTUMN FOLIAGE COLOR	ORNAMENTA L BARK
	G				F		15-25	15-25			G	
	F	F	G	F	F	Amur Maple (Acer tataricum var. ginnala) Cultivars: 'Compactum', 'Flame' and other improved selections	15-20	15-20			G	
G	G					Cultivar: 'Autumn Brilliance'. Choose superior cultivars and native species.	15-25	15-20	G	G	F	
G	F	O	F		H		20-25+	20-25+	G		F	F
G	F	O	F		F		15-20+	15-20+	G		F	F
G	G				F	Chinese Fringetree (Chionanthus retusus)	15-25	10-25	G	G		G
G	G				F	White Fringetree (Chionanthus virginicus)	10-20	10-20	G			
G		F	F		F		10-15	10-15	G			
G	F	G	G		F		15-20+	10		G	F	
	G				G		15-20	10-15	G			
	G			F	G		10-30	10-20	F			
G		F	F			Flowering Crabapple (Malus spp.) Many cultivars available. Choose disease resistant cultivars only. Superior cultivars include: 'Prairiefire', 'Adirondack', 'Adams', 'Sargeant', Also refer to KSU Research and Extension Crabapple Publication MF-875.	varies	varies	G	G		F
G	F				F	Chokecherry (Prunus virginiana) Cultivar: 'Canada Red Select'	15-25	10-15	G	G	F	
G		G	F		F	Japanese Tree Lilac (Syringa reticulata) Cultivar: 'Ivory Silk'	20-25	15-25	G			G

EN	VIRC	ONME	ENT (toler	ant of	7)	LAN	NDSCAPE	ATT	RIBU	JTES	
FULL SUN	LIGHT SHADE	ALKALINE SOIL (HIGH pH)	DROUGHT	WET SOIL	PESTS (RESISTANT TO)	MEDIUM DECIDUOUS TREES (usually 20 to 40 feet at maturity)	MATURE HEIGHT	MATURE SPREAD	DESIRABLE FLOWERS	SHOWY OR USEFUL FRUIT	AUTUMN FOLIAGE COLOR	ORNAMENTAL BARK
G	F	F	F	F	F	Trident Maple (Acer buergeiranum) Some trees could suffer winter injury.	20-35	20-30			G	F
G	G	F	G		G	Hedge Maple (Acer campestre) Cultivar: Queen Elizabeth™('Evelyn')	25-35	25-35			F	
F	F	F			G	Paperbark Maple (Acer griseum)	20-30	15-30			F	G
G	F	F	F		G	Shantung (Purpleblow) Maple (Acer truncatum) Cultivars-hybrid with A. platanoides: 'Keithsform' (Norwegian Sunset™), 'Warrensred' (Pacific Sunset™).	25-30	25-30			F	
F	G				F	American Hornbeam (Carpinus caroliniana)	20-30	20-30				

G		F			G	American Yellowwood (Cladrastis kentukea)	30-50	40-55	F		F	
G		G	G			Goldenraintree (Koelreuteria paniculata)	30-40	30-40	G	G	F	
G		G	G	F	G	Osage Orange (Maclura pomifera) Cultivars: 'Wichita', 'Whiteshield. Fruitless and thornless cultivars recommended for most community plantings.	30-40+	20-40			G	F
F	G					Saucer Magnolia (<i>Magnolia x soulangiana</i>) Protect from summer wind and heat exposure.	20-30	15-25	G			
G		F	F			Flowering Crabapple (Malus species) Many cultivars available. Choose disease resistant cultivars only. Superior cultivars include: 'Centurion'; 'Ralph Shay'; Siberian Crab (M. baccata 'Jackii'); 'Spring Snow'; 'Van Eseltine'; White Angel™ ('Inglis'); 'Red Splendor'. Also refer to KSU Research and Extension Crabapple Publication MF-875.	varies	varies	G	G		F
G	G	F	F		G	Hophornbeam (Ironwood) (Ostrya virginiana)	25-40	20-30		F	F	F
G		G	G		G	Chinkapin Oak (Quercus muehlenbergii)	35-40+	40-45		F	F	
G		G	G		G	Western Soapberry (Sapindus drummondii)	25-40+	25-30	G	G	G	F

EN'	ENVIRONMENT (tolerant of) LANDSCAPE ATTRIBUTES											
FULL SUN	LIGHT SHADE	ALKALINE SOIL (HIGH pH)	DROUGHT	WET SOIL	PESTS (RESISTANT TO)	LARGE and VERY LARGE DECIDUOUS TREES (usually 40 feet and larger at maturity)	MATURE HEIGHT	MATURE SPREAD	DESIRABLE FLOWERS	SHOWY OR USEFUL FRUIT	AUTUMN FOLIAGE COLOR	ORNAMENTAL BARK
G	F	F				Freeman Maple (Acer x freemanii) Cultivar: 'Armstrong'; 'Jeffersred' (Autumn Blaze ®); Autumn Fantasy ™. Poisonous to horses.	50-60	40-50			G	F
G	F	G	G			Norway Maple (Acer platanoides) Several cultivars available. Superior cultivars include: 'Emerald Queen', 'Superform' (Green leaf cultivars) and 'Fairview', 'Crimson King', 'Royal Red' (Red leaf cultivars).	40-50	40-50				
G	F			G		Red Maple (Acer rubrum) Cultivars: Red Sunset ® ('Franksred'); October Glory ®; 'Autumn Flame'; Burgundy Belle ® 'Magnificent Magenta' and columnar forms; Poisonous to horses.	40-60	35-50	F		G	F
G	G	F				Sugar Maple (Acer saccharum) Cultivars: 'Commemoration'; 'Legacy'; Caddo; 'Fall Fiesta'; 'Bonfire'; all are more heat tolerant/leaf tatter resistant cultivars.	40-60+	30-50			G	
G				G	F	River Birch (Betula nigra) Cultivar: 'Heritage'	40-60	40-50	F		F	G
G	F		F		F	European Hornbeam (<i>Carpinus betulus</i>) Upright cultivars available.	40-60	30-40+				
G		F	G		F	Persimmon (Diospyros virginiana)	35-50+	20-35	F	G	F	G
G		G	G		G	Ginkgo (Ginkgo biloba) Cultivars: 'Autumn Gold'; 'Princeton Sentry'; 'Magyar'. Male cultivars recommended for most community plantings.	50-60+	25-40			G	F
G		G	G	F		Thornless Honeylocust (Gleditsia triacanthos var. inermis) Cultivars: 'Shademaster', 'Skyline', 'Imperial'.	40-60+	30-50			F	
G		G	G	F	G	Kentucky Coffeetree (Gymnocladus dioicus) Seedless cultivars available.	50-60+	30-45		F	F	F
G				G		Sweetgum (Liquidambar styraciflua)	50-75	35-50		F	G	F
G	F			G		Black Tupelo (Black Gum) (Nyssa sylvatica)	30-50	20-30			G	G
G	F	G	F	G		London Planetree (Platanus x acerifolia)	60-80	50-60		F		G

						Cultivar: 'Bloodgood'.						
G		F	G		G	Sawtooth Oak (Quercus acutissima)	35-40+	30-45		F	F	
G						White Oak (Quercus alba)	60-80	40-60		F	G	
G			F	G	F	Swamp White Oak (Quercus bicolor)	50-60	40-60		F	G	F
G			G	F	F	Shingle Oak (Quercus imbricaria)	50-60	40-60		F	F	
G		G	G	F		Bur Oak (Quercus macrocarpa)	60-80	50-70		F		
G			F	F	G	Willow Oak (Quercus phellos)	40-60	30-40			F	
G						Chestnut Oak (Quercus prinus)	60-70	60-70				
G		G	F		F	English Oak (Quercus robur)	40-60+	45-65		F		
G					F	Red Oak (Quercus rubra)	60-75	40-60		F	G	
G		F	F	F	F	Shumard Red Oak (Quercus shumardii)	60-80	40-60		F	G	
G			G	G	G	Baldcypress (Taxodium distichum)	50-70+	20-50		F	G	F
G	F	F			F	American Linden (Tilia americana) Cultivars: 'Redmond'	50-60+	35-40	F		F	
G	F	G			F	Littleleaf Linden (Tilia cordata) Cultivars: 'Greenspire'.	50-60	25-40	F		F	
G	F	G	G	F	F	Lacebark Elm (<i>Ulmus parvifolia</i>) Cultivars: 'Emeri l' (Athena®); 'Emer II' (Allee®); Bosque™; 'Emerald Prairie'; 'Frontier'.	40-60	35-50		F	F	G

EN	VIRO	NME	NT (toler	ant o	f)	LANDSCAPE ATTR					
FULL SUN	LIGHT SHADE	ALKALINE SOIL (HIGH pH)	ркоиснт	WET SOIL	PESTS (RESISTANT TO)	EVERGREEN TREES	MATURE HEIGHT	MATURE SPREAD	DESIRABLE FLOWERS	SHOWY OR USEFUL FRUIT	AUTUMN FOLIAGE COLOR	ORNAMENTAL BARK
G		G	G			Upright Chinese Juniper (Juniperus chinensis) Many cultivars available. See your KSU-County Extension office or local nursery for the best recommendations.	varies	varies		G		F
G		G	G			Eastern Red Cedar (Juniperus virginiana) Many cultivars available. Superior cultivars include: 'Canaertii' (Canaert Red Cedar), 'Taylor', 'Burkii';	30-40+	10-30		G		F
G						Black Hills Spruce (Picea glauca 'Densata')	30-40+	15-20		F		
G						Norway Spruce (Picea abies)	40-60	25-30		F		
G		F	G			Limber Pine (Pinus flexilis) Cultivar: 'Vanderwolf's Pryamid'	30-40	15-30		F		

This publication is coordinated and updated by the Kansas Forest Service. For further information and assistance, or to provide feedback and recommendations to the preferred tree listing please contact:

Kim Bomberger, NE / NC District Community Forester Kansas Forest Service 2610 Claflin Road Manhattan, KS 66502 785-532-3315 kbomberg@oznet.ksu.edu



Preferred tree lists are available for other areas of the state. Visit kansasforests.org for more information.

