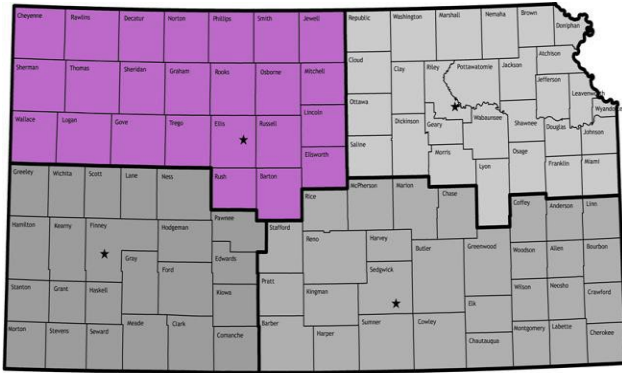


Preferred Trees for Northwest Kansas



Growing trees successfully depends on the selection of the right trees for the intended 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 charts show the tolerance of individual trees to various environmental conditions as well as the major landscape attributes of each tree. Not all trees capable of growing in Northwest Kansas are included. The preferred trees listed are recommended by industry professionals such as city foresters, local tree boards, and horticulture extension agents. For a more extensive list of urban trees see *Shade & Ornamental Trees for Kansas MF-2688*.

KEY TO USING THIS INFORMATION:

TREE SPECIES AND CULTIVARS:

The names of the trees are listed in the center of four different charts. Three of the charts list deciduous trees according to average mature height, and the fourth chart lists evergreen trees. Cultivars are listed if they possess improved plant characteristics such as attractive fall color, a unique form, attractive flowers or fruit, greater heat tolerance, or increased pest resistance.

ENVIRONMENTAL TOLERANCES:

The left side of each chart indicates the tolerance of the tree to various environmental conditions including full sun (**S**), light shade (**L**), soil pH, and soil moisture tolerances. Each chart also shows the resistance of each tree to insect and disease pests. (**G**ood) under the appropriate column indicates the tree is strongly tolerant of the characteristic indicated. (**F**air) 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 soil pH, soil moisture, and pests follows:

pH ADAPTABLE: (**G**) = tree may tolerate soils with a pH of 8.0 or higher; (**F**) = tree generally will tolerate soils with pH up to 7.5; (blank) = tree may not tolerate alkaline soils so should not be planted to avoid the problem of iron or manganese chlorosis.

SOIL MOISTURE: While most trees prefer moist, well-drained soil, some species will tolerate moderate drought (**D**), or occasional wet (**W**) periods. Some trees will tolerate both to some extent (**DW**). See *Drought Tolerant Plants for Northwest Kansas* for a list of drought tolerant trees and plants.

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 become a nuisance.

LANDSCAPE ATTRIBUTES:

The right side of each chart includes average mature height and spread of each tree, which can be variable depending on growing conditions and other factors. Landscape attributes of flowers, fruit, and fall color are also listed.

FLOWERS: (**G**) = flowers are showy; (**F**) = flowers are not particularly showy, but may possess other desirable characteristics such as fragrance; (blank) = flowers are generally considered insignificant.

FRUIT: (**G**) = fruits are generally aesthetically pleasing; (**F**) = fruits are not considered showy, but may provide other interest or benefits such as attracting wildlife; (blank) = no showy or useful fruit.

FALL COLOR: (**G**) = the autumn leaf color is typically quite good; (**F**) = the fall color may provide interest in some years; (blank) = autumn foliage color is generally not considered an asset

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ENVIRONMENT				SMALL DECIDUOUS TREES (usually under 20 feet at maturity)	LANDSCAPE ATTRIBUTES				
SUN / LIGHT SHADE	pH ADAPTABLE	SOIL MOISTURE	PEST RESISTANCE		HEIGHT (ft.)	SPREAD (ft.)	FLOWERS	FRUIT	FALL COLOR
SL	F	DW	F	Amur Maple (<i>Acer tataricum</i> subsp. <i>ginnala</i>) Cultivars: 'Compactum', 'Embers', 'Flame'	15-20	15-25	F		G
SL	G	D	F	Tatarian Maple (<i>Acer tataricum</i>)	20-25	15-25	F	F	F
SL	G	D	F	Eastern Redbud (<i>Cercis canadensis</i>) Cultivars: 'Alba', 'Appalachia'	20-25	20-25	G		F
SL	G	D	G	Texas Redbud (<i>Cercis canadensis</i> subsp. <i>texensis</i>) Cultivar: Oklahoma	15-20	15-20	G		F
S	G	DW	F	Thornless Cockspur Hawthorn (<i>Crataegus crusgalli</i> var. <i>inermis</i>)	15-25	20-25	G	G	F
S	G	DW	F	Washington Hawthorn (<i>Crataegus phaenopyrum</i>)	20-30	20-25	G	G	G
SL	G	D	G	Smoketree (<i>Cotinus</i> spp.) American Smoketree (<i>C. obovatus</i>) and Red Smoketree (<i>C. coggygria</i>)	20	15	F		G
SL		D	F	Canada Red Chokecherry (<i>Prunus virginiana</i> 'Canada Red')	25	25	G	G	G

SUN / LIGHT SHADE	pH ADAPTABLE	SOIL MOISTURE	PEST RESISTANCE	MEDIUM DECIDUOUS TREES (usually 20 to 40 feet at maturity)	HEIGHT (ft.)	SPREAD (ft.)	FLOWERS	FRUIT	FALL COLOR
SL	F	DW	G		European Hornbeam (<i>Carpinus betulus</i>) Cultivars: 'Frans Fontaine', 'Fastigiata'	30-40	20-30		
SL	F	D	F	Green Hawthorn 'Winter King' (<i>Crataegus viridis</i>)	25-35	25-35	G	G	G
S	G	D	F	Goldenrain Tree (<i>Koelreuteria paniculata</i>)	30-40	30-40	G	G	F
S	G	DW	G	Osage Orange (<i>Maclura pomifera</i>) Cultivars: 'Wichita', 'Whiteshield'	30-40	20-40			G
S	F	D	F	Flowering Crabapple (<i>Malus</i> spp.) Cultivars: see Crabapple publication MF-875	varies	varies	G	G	F
				Callery Pear (<i>Pyrus calleryana</i>) Species quarantined by the Kansas Department of Agriculture.					
S	G	D	G	Chinkapin Oak (<i>Quercus muehlenbergii</i>)	35-40	40-45		F	F

SUN / LIGHT SHADE	pH ADAPTABLE	SOIL MOISTURE	PEST RESISTANCE	LARGE and VERY LARGE DECIDUOUS TREES (usually 40 feet and larger at maturity)	HEIGHT (ft.)	SPREAD (ft.)	FLOWERS	FRUIT	FALL COLOR
SL	G	DW			Common Hackberry (<i>Celtis occidentalis</i>)	40-60	40-50		F
S	G	DW		Thornless Honeylocust (<i>Gleditsia triacanthos</i> var. <i>inermis</i>) Cultivars: 'Shademaster', 'Skyline'	40-60	30-50			F
SL	G	DW	G	Kentucky Coffee Tree (<i>Gymnocladus dioica</i>)	50-60	30-45		F	F
S	G	DW	G	Bur Oak (<i>Quercus macrocarpa</i>)	60-80	50-70		F	
S	G	D	F	English Oak (<i>Quercus robur</i>) Cultivars: 'Crimson Spire', 'Upright English'	40-60	45-65		F	
S	G	D	G	Heritage Oak (<i>Quercus robur</i> x <i>macrocarpa</i>)	40-50	30-40		F	F

LARGE and VERY LARGE DECIDUOUS TREES (cont.)

SL	F	DW	F	Japanese Pagoda (<i>Styphnolobium japonicum</i>)	50-75	50-75	G	G	
SL	F	W	F	American Linden (<i>Tilia americana</i>)	50-60	35-40	F	F	F
SL	G	W	F	Littleleaf Linden (<i>Tilia cordata</i>) Cultivar: 'Greenspire'	35-45	25-40	F	F	F
S	G	DW	F	American Elm (<i>Ulmus americana</i>) Cultivars: 'New Harmony', 'Princeton', 'Jefferson'	60-80	40-60			F
SL	G	DW	F	Accolade Elm (<i>U. japonica x wilsoniana</i>)	50-60	25-40			G
S	G	DW	F	Frontier Elm (<i>Ulmus carpinifolia x U. parvifolia</i>)	30-40	20-30			G
SL	G	DW	F	Lacebark Elm (<i>Ulmus parvifolia</i>)	40-60	35-50			F
S	G	DW	F	Patriot Elm (<i>Ulmus patriot</i>)	40-50	30-40			G
SL	F	DW	F	Prospector Elm (<i>Ulmus wilsoniana</i>)	40-50	20-25			F
SL	F	D	F	Japanese Zelkova (<i>Zelkova serrata</i>) Cultivars: 'Green Vase', 'Halka', 'Musashino', 'Village Green'	40-45	25-30			G

ENVIRONMENT				EVERGREEN TREES	LANDSCAPE ATTRIBUTES				
SUN / LIGHT SHADE	pH ADAPTABLE	SOIL MOISTURE	PEST RESISTANCE		HEIGHT (ft.)	SPREAD (ft.)	FLOWERS	FRUIT	FALL COLOR
S	G	D		Upright Chinese Juniper (<i>Juniperus chinensis</i>) Cultivars: 'Hetzi Columnaris', 'Keteleeri', 'Spearmint'	varies	varies		G	
S	G	D		Eastern Red Cedar (<i>Juniperus virginiana</i>) Cultivars: 'Hillspire', 'Canaertii', 'Prairie Pillar', 'Taylor'	30-40	10-25		G	
S	F	DW		Colorado Blue Spruce (<i>Picea pungens</i> var. <i>Glauca</i>)	30-60	10-20		G	
S	G	D		Pinyon Pine (<i>Pinus edulis</i>)	10-20	10-15		F	
SL	G	DW	G	Oriental Arborvitae (<i>Platycladus orientalis</i>)	20-30	20-25			
SL	G	D	F	Limber Pine (<i>Pinus flexilis</i>)	30-50	15-35		G	
S	F	D	G	Ponderosa Pine (<i>Pinus ponderosa</i>)	40-80	25-30		F	
S	G	D	F	Southwestern White Pine (<i>Pinus strobiformis</i>)	40-60	25-40		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 list, please contact:

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Preferred tree lists are available for other areas of the state.
 Visit us on the web for more information.

