

Botanical Name	Common Name	Type	Shape			Sunlight			Uses													Additional Notes			
			Height (ft)	Width (ft)	Form / Habit	Full Sun	Part Sun	Shade	Native	Windbreak	Hedge	Screen	Ground cover	Specimen	Mass Planting	Erosion Control	Deer Resistant	Resist Black Wal.	Birdscaping	Winter Interest	Fall Color		Pollinators	Fragrant	
<i>Acer miyabei</i>	Miyabe Maple	Deciduous Tree	50	40	Oval	x								x		x	x		x	Y					
<i>Acer truncatum x platanoides</i>	Norwegian/Crimson Sunset Maple	Deciduous Tree	35	25	Oval	x								x		x	x			ORP					
<i>Carya cordiformis</i>	Bitternut Hickory	Deciduous Tree	60	50	Vase	x			x					x		x	x			Y					
<i>Carya ovata</i>	Shagbark Hickory	Deciduous Tree	80	40	Oval	x			x					x		x	x			Y					
<i>Catalpa speciosa</i>	Northern Catalpa	Deciduous Tree	60	45	Oval	x	x							x		x	x				x	x			
<i>Celtis occidentalis</i>	Common Hackberry	Deciduous Tree	60	60	Vase	x	x		x	x	x			x		x		x	x	Y	x				
<i>Cercis canadensis</i>	Eastern Redbud	Deciduous Tree	30	35	Vase	x	x	x			x			x		x	x		x	Y	x			Minnesota Strain is preferred	
<i>Corylus colurna</i>	Turkish Filbert	Deciduous Tree	50	30	Pyramidal	x	x							x		x			x						
<i>Crataegus spp.</i>	Hawthorns	Deciduous Tree	30	30	Spreading	x	(x)		x	x	x			x		x	x	x	x	YOR	x				
<i>Ginkgo biloba</i>	Ginkgo	Deciduous Tree	60	40	Pyramidal	x	x							x		x			x					Male cultivar	
<i>Gleditsia triacanthos</i>	Honeylocust	Deciduous Tree	60	50	Spreading	x								x		x	x		x					Male cultivar	
<i>Gymnocladus dioica</i>	Kentucky Coffeetree	Deciduous Tree	60	60	Oval	x	x	x						x		x			x	Y				Ugly duckling tree	
<i>Hamamelis virginiana</i>	Common Witch Hazel	Deciduous Tree	30	30	Spreading	x	x	x	x		x			x	x	x			x	Y	x	x		dry woods, not full sun	
<i>Maackia amurensis</i>	Amur Maackia	Deciduous Tree	30	30	Vase	x								x		x			x			x	x	Can get verticillium wilt in poorly drained soils	
<i>Malus ioensis</i>	Prairie Crabapple	Deciduous Tree	20	20	Spreading	x	x		x	x	x			x	x	x		x	x		x	x			
<i>Ostrya virginiana</i>	Ironwood/Hophornbeam	Deciduous Tree	30	15	Pyramidal	x	x	x	x		x			x		x		x	x	Y					
<i>Phellodendron lavallei 'Langenecker'</i>	Eye Stopper Corktree	Deciduous Tree	45	40	Spreading	x								x		x			x	Y					Male cultivar ONLY, ugly duckling tree
<i>Platanus x acerifolia 'Morton Circle'</i>	Exclamation London Planetree	Deciduous Tree	60	50	Pyramidal	x				x				x		x			x						
<i>Populus grandidentata</i>	Bigtooth Aspen	Deciduous Tree	70	20	Upright	x			x	x	x			x	x				x	YO					Colony forming
<i>Prunus pensylvanica</i>	Pin Cherry	Deciduous Tree	30	20	Rounded	x			x	x	x			x	x	x		x		YOR	x	x			
<i>Prunus virginiana</i>	Choke Cherry	Deciduous Tree	30	20	Rounded	x			x	x	x			x	x	x			x	YOR	x	x			
<i>Quercus bicolor</i>	Swamp White Oak	Deciduous Tree	75	65	Oval	x			x					x		x	x	x	x		x				
<i>Quercus ellipsoidalis</i>	Northern Pin Oak	Deciduous Tree	65	65	Oval	x			x					x		x	x	x		R	x				
<i>Quercus macrocarpa</i>	Bur Oak	Deciduous Tree	80	80	Broad	x			x					x		x	x	x				x			
<i>Quercus muehlenbergii</i>	Chinkapin Oak	Deciduous Tree	75	75	Rounded	x			x					x		x	x	x		RP	x				
<i>Quercus palustris</i>	Pin Oak	Deciduous Tree	70	60	Oval	x			x					x		x	x	x		R	x				
<i>Quercus velutina</i>	Black Oak	Deciduous Tree	60	60	Globular	x			x					x		x	x	x		R	x				
<i>Quercus x schuettei</i>	Hybrid Bur x Swamp Oak	Deciduous Tree	75	70	Broad	x			x					x		x	x	x			x				
<i>Syringa reticulata</i>	Japanese Tree Lilac	Deciduous Tree	25	25	Spreading	x					x			x	x	x			x	Y	x	x			
<i>Taxodium distichum</i>	Baldcypress	Deciduous Tree	70	45	Pyramidal	x								x		x			x	O					
<i>Tilia americana</i>	Basswood	Deciduous Tree	75	50	Pyramidal	x	x		x	x	x			x	x				x	Y	x	x			
<i>Ulmus americana</i>	American Elm	Deciduous Tree	80	60	Vase	x			x	x				x	x	x	x	x		Y	x			Resistant cultivars	
<i>Ulmus x 'Morton Glossy'</i>	Triumph Elm	Deciduous Tree	55	45	Oval	x				x				x		x				Y				Replacement for Accolade Elm	
<i>Juniperus chinensis</i>	Chinese Juniper	Evergreen Tree	40	20	Oval	x				x	x	x	x*	x	x	x	x	x						x	
<i>Juniperus virginiana</i>	Eastern Redcedar	Evergreen Tree	40	20	Oval	x				x	x	x	x*	x	x	x	x	x		P				x	
<i>Juniperus x</i>	Star Power Juniper	Evergreen Tree	20	10	Pyramidal	x					x	x	x	x	x	x	x	x						x	
<i>Picea glauca</i>	White Spruce	Evergreen Tree	60	20	Conical	x				x	x	x		x	x	x			x						
<i>Picea glauca var. densata</i>	Black Hills Spruce	Evergreen Tree	50	25	Conical	x					x	x		x	x	x			x						
<i>Pinus banksiana</i>	Jack Pine	Evergreen Tree	50	30	Irregular	x					x	x		x	x	x			x					Needs mycorrhizae if in calcareous soils	
<i>Pinus mugo</i>	Mugo Pine	Evergreen Tree	20	30	Broad	x						x	x*	x	x	x			x						
<i>Pinus resinosa</i>	Red Pine	Evergreen Tree	60	25	Oval	x								x	x				x						
<i>Pinus sylvestris 'Watereri'</i>	Waterer Scots Pine	Evergreen Tree	12	15	Spreading	x					x			x		x			x					Scots pine not recommended, but 'Watereri' is cool.	
<i>Aesculus parviflora</i>	Bottlebrush Buckeye	Deciduous Shrub	10	15	Mound		x	x			x	x		x	x	x		x	x	Y	x	x			
<i>Amelanchier stolonifera</i>	Running Serviceberry	Deciduous Shrub	5	10	Spreading	x	x			x	x			x		x	x			Y	x				
<i>Aronia spp.</i>	Chokeberry	Deciduous Shrub	8	8	Vase/Mound	x	x			x	x	x	x*	x	x	x			x	R	x			Red, Glossy Black, Appleleaf all good spp.	
<i>Ceanothus americanus</i>	New Jersey Tea	Deciduous Shrub	3	4	Mound	x	x				x			x								x			
<i>Comptonia peregrina</i>	Sweetfern	Deciduous Shrub	4	8	Colonizing	x	x				x			x	x	x								x	
<i>Cornus amomum</i>	Silky Dogwood	Deciduous Shrub	8	8	Upright	x	x				x	x		x	x				x	RP	x				
<i>Cornus racemosa</i>	Gray Dogwood	Deciduous Shrub	12	12	Upright	x	x				x	x		x	x				x	RP	x				
<i>Corylus americana</i>	American Filbert/Hazelnut	Deciduous Shrub	8	8	Upright	x	x				x	x		x		x			x	YOP				Dwarf cultivars available	
<i>Cotinus coggygria</i>	Smokebush	Deciduous Shrub	15	15	Spreading	x						x		x		x			x	ORP					
<i>Cotoneaster lucidus</i>	Hedge Cotoneaster	Deciduous Shrub	10	10	Upright	x					x	x		x		x			x	YOR					
<i>Dasiphora fruticosa</i>	Potentilla, Bush Cinquefoil	Deciduous Shrub	3	3	Rounded	x					x			x		x						x			

<i>Diervilla lonicera</i>	Dwarf Bush Honeysuckle	Deciduous Shrub	4	5	Spreading	x	x	x	x	x	x	x	x	x	x	x	x	x	RP	x	
<i>Forsythia spp.</i>	Forsythia	Deciduous Shrub	10	10	Spreading	x				x	x	x*	x	x*	x	x			P		Dwarf cultivars available
<i>Hydrangea paniculata</i>	Panicle Hydrangea	Deciduous Shrub	12	12	Rounded	x					x*	x	x						x	x*	Many cultivars available in different sizes/colors
<i>Hypericum kalmianum</i>	Kalm's St. John's Wort	Deciduous Shrub	3	3	Globe	x			x	x			x	x	x	x	x	x	x	x	
<i>Physocarpus opulifolius</i>	Common Ninebark	Deciduous Shrub	10	10	Arching	x			x	x	x		x	x	x	x	x	x	YO	x	Powdery mildew when stressed
<i>Prunus americana</i>	American Plum	Deciduous Shrub	10	15	Colonizing	x			x	x	x		x	x	x				OR	x	
<i>Rhus aromatica</i>	Fragrant Sumac	Deciduous Shrub	6	10	Colonizing	x			x	x*	x		x	x	x	x	x	x	OR	x	x
<i>Rhus glabra</i>	Smooth Sumac	Deciduous Shrub	15	15	Colonizing	x			x				x	x	x	x	x	x	OR	x	
<i>Rhus typhina</i>	Staghorn Sumac	Deciduous Shrub	20	30	Colonizing	x			x				x	x	x	x	x	x	OR	x	
<i>Ribes alpinum</i>	Alpine Currant	Deciduous Shrub	5	6	Rounded	x	x						x		x	x					
<i>Rosa rugosa</i>	Rugosa Rose	Deciduous Shrub	5	5	Rounded	x						x*	x	x	x	x	x	x	Y	x	x
<i>Rosa virginiana</i>	Prairie Rose	Deciduous Shrub	6	6	Rounded	x			x				x	x	x	x	x	x	YOR	x	x
<i>Rubus parviflorus</i>	Thimbleberry	Deciduous Shrub	4	8	Spreading		x		x				x	x	x	x	x		Y	x	Phenomenal groundcover for shaded sites
<i>Spiraea fritschiana</i>	Fritsch Spirea	Deciduous Shrub	3	3	Mound	x	x				x	x	x	x					YOR	x	
<i>Stephanandra incisa</i>	Cutleaf Stephanandra	Deciduous Shrub	3	6	Mound	x	x	x											OR		
<i>Symphoricarpos albus</i>	Snowberry	Deciduous Shrub	6	6	Rounded	x	x	x	x	x			x	x	x						
<i>Viburnum lentago</i>	Nannyberry Viburnum	Deciduous Shrub	15	10	Colonizing	x	x				x		x	x	x	x	x		ORP	x	Powdery mildew when stressed
<i>Zanthoxylum americanum</i>	Prickly Ash	Deciduous Shrub	15	15	Colonizing	x	x		x	x	x		x	x	x	x	x		Y	x	Dioecious
<i>Juniperus communis var. depressa</i>	Oldfield Common Juniper	Evergreen Shrub	4	10	Broad	x			x		x	x	x	x	x	x	x	x	P		x
<i>Juniperus horizontalis</i>	Creeping Juniper	Evergreen Shrub	1	8	Spreading	x			x				x	x	x	x	x	x			x
<i>Microbiota decussata</i>	Siberian Cypress	Evergreen Shrub	1	8	Spreading	x	x						x	x	x	x					requires sharp drainage
<i>Yucca filamentosa</i>	Yucca/Adams Needle	Evergreen Shrub	2	2	Upright	x							x								
<i>Amorpha canescens</i>	Leadplant	Large Perennial	3	4	Mound	x			x				x	x	x	x	x				x
<i>Amsonia spp.</i>	Amsonia	Large Perennial	3	4	Mound	x	x						x	x	x	x	x		Y	x	
<i>Baptisia spp.</i>	False Indigo	Large Perennial	4	4	Rounded	x	x		x				x	x	x	x	x	x			x
<i>Cassia hebecarpa</i>	Wild Senna	Large Perennial	6	6	Mound	x	x		x				x	x	x	x	x				x
<i>Perovskia atriplicifolia</i>	Russian Sage	Large Perennial	4	4	Upright	x							x	x	x	x	x				x
<i>Parthenocissus spp.</i>	Virginia Creeper, Boston Ivy, etc.	Vine	n/a	n/a	Vine	x	x	x	x				x	x					OR	x	

Plants to Avoid!

Botanical Name	Common Name	Reason
<i>Juniperus scopulorum</i>	Rocky Mountain Juniper	Disease issues, defoliates with age leaving only the tips blue.
<i>Picea pungens</i>	Colorado Spruce	Disease issues, defoliates with age
<i>Acer tataricum</i>	Tatarian Maple	heading to invasive list
<i>Pyrus calleryana</i>	Callery Pear	heading to invasive list, 'Chastity' will be the only approved cultivar (sterile triploid). Also marginally hardy in cold winters
<i>Berberis spp.</i>	Barberry	invasive, approved cultivars are low vigor and look unsightly if salt/drought damaged
<i>Buddleia spp.</i>	Butterflybush	invasive on east coast, acts more like a woody annual/perennial in our climate
<i>Larix laricina</i>	Tamarack	Intolerant of drought (insect damage)
<i>Betula papyrifera</i>	Paper Birch	Intolerant of drought (Bronze Birch Borer)
<i>Cercidiphyllum japonicum</i>	Katsuratree	Intolerant of drought
<i>Cornus alternifolia</i>	Pagoda Dogwood	Intolerant of drought (Golden Canker)
<i>Spiraea betulifolia</i>	Birchleaf Spirea	Foliar fungal diseases have gotten worse in recent years.
<i>Picea abies</i>	Norway spruce	Intolerant of drought

Notes:
 Heights and widths are upper values
 Sunlight preferences are based on where the plant is drought tolerant; witch hazel can grow in full sun but it will require more moisture.

Fall colors are Y-yellow; O-orange; R-red; P-purple; multiple letters means the plant can be both or any combination of those colors

Blanks mean none/not applicable. A plant that is blank for Alkaline Soil should not be planted in alkaline soil.

*cultivars available for this role