

Trees	Preferred Soil	Moisture	Space (feet)	Height (feet)	Growth Rate	Comments	Photo
Eastern Red Cedar	Moist, deep loam to sand. Will tolerate alkaline and saline conditions.	Drought tolerant, but prefers moist soils.	6'-10'	30' - 45'	Moderate growth. Full sun. Tolerates shade only in youth.	Provides food for birds and mammals. Nesting and winter cover for a variety of birds. Browse for whitetail deer.	
Black Hills Spruce	Sandy loam-clay	Moist-wet	8'-16'	30' -60'	Medium growth – needs full sun.	Pyramidal tree with short bluish-green needles, forming a very dense tree. Excellent windbreak and wildlife cover. Tolerates poor drainage, fairly drought resistant.	
Ponderosa Pine	Prefers deep moist well drained soil but will grow in a wide range; drought and salt tolerant	Tolerant of moist or dry	8'-16'	60'-80'	Medium growth – needs full sun	Ponderosa Pines have dark green needles, 5" to 8" long. Can grow in grassland habitats. Good windbreak tree.	
White Pine	Medium to fine soil texture, medium to high soil fertility.	More tolerant of wetter conditions	8'-16'	50'-80'	Moderate growth- full sun when mature.	Pyramidal tree that tolerates more shade than other pines. Plant on slopes, hilltops, or shoulders of hills. While tolerating partial shade while young, it prefers full sun as a mature tree.	
Austrian Pine	Various soils	Normal	8'-16'	40'-60'	Medium growth, full sun	Birds and squirrels enjoy Austrian pine seeds as they do other pine seeds. The large evergreens also provide shelter and nesting sites, particularly for birds such as owls.	

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Black Walnut	Sensitive to soil conditions. Likes deep, well drained, fertile, loamy soils.	Prefers moist well-drained soils. Does not withstand extended ponding or drought.	10'-20'	35'-60'	Moderate growth. Full sun, tolerates partial shade.	Tall, native, and known for its hardwood. Used extensively by over 20 species of wildlife for food and cover.	
Littleleaf Linden	Grows well on deep, fertile, well-drained loam and clay soils.	Intermediate tolerance to flooding. Not drought resistant.	8'-16'	30'-45'	Rapid growth rate. Full sun, but will tolerate some shade	Strikingly dense pyramidal to rounded crown. The flowers are highly fragrant and attractive to bees.	
Northern Red Oak	Grows in acidic, loamy, moist, sandy, well drained, clay soils.	Normal moisture with some drought tolerance.	10'-16'	60'-75'	Rapid growth. Full sun.	Tall, native, and hardy tree. Its large acorns mature earlier in the season than those of most other Oaks, thus providing a source of food by late summer and throughout autumn and winter for many forms of wildlife.	
Siouxland Poplar	Sandy loam through clay	Dry, moist or wet	8'-16'	50'-70'	Rapid growth. Full sun.	An enormous upright-oval shade tree, this is a seedless variety that's tolerant of the worst growing conditions; has an aggressive root system, so don't plant near the house; makes an excellent windbreak or quick shade tree. Can be susceptible to disease.	
Sugar Maple	Sandy or loam	Wet, moist, or dry	10'-20'	60'-75'	Slow to medium growth. Partial shade to full sun.	Does best when planted in location where it will have ample room to spread. The sap can be boiled down to produce maple syrup and sugar. Mature Sugar Maples show a wide variation in form, but tend to have a broad, rounded head.	

Silver Maple	Sandy, loam, or clay	Wet or moist	10'-20'	50'-70'	Fast Growing - partial shade to full sun	Carefully consider this tree's problems such as weak wood and invasive roots before using it. May be used in a location with poor soil conditions requiring fast shade or as a filler until more desirable, slow growing trees become established.	
Hackberry	Performs well on a variety of soils.	Moderately drought tolerant but does best on moist, well drained sites.	10'-16'	40'-60'	Fast Growing – full sun	Medium to tall tree for farmstead and field windbreaks, riparian plantings and highway beautification. Has wide spreading branches. Fruit is eaten by many birds and mammals.	
Shrubs	Preferred Soil	Moisture	Space (feet)	Height (feet)	Growth Rate	Comments	Photo
Freedom Honeysuckle	Grows best in well drained soils, but will tolerate heavy soils.	Somewhat drought tolerant.	4'	6'-10'	Fast growing	Medium-tall, open, irregular shrub. White flowers. Nesting cover and berries for songbirds. This honeysuckle is aphid resistant.	
Redosier Dogwood	Adaptable to a variety of soils.	Grows best in moist to somewhat wet loams.	3'-8'	7'-10'	Fast growing. Full sun to partial shade.	Native, medium to tall shrub with red bark. Fruit and twigs are used by several species of wildlife, such as robins, cedar waxwings, rabbits, and deer. Provides dense cover for a large number of wildlife species.	

Shrubs	Preferred Soil	Moisture	Space (feet)	Height (feet)	Growth Rate	Comments	Photo
American Cranberry bush	Tolerates heavy soil types. Prefers fertile loamy soils	Does best on well-drained sites with better than average moisture.	4'	10'-12'	Moderate to fast growth. Partial shade to full sun.	White flowers in May, red foliage in autumn with scarlet edible berries. Excellent wildlife habitat and makes good snow catch or screen.	
American Plum	Adapted to a wide variety of soil types.	Fair to good drought tolerance.	6'-10'	8'-10'	Fast to moderate growth. Full sun to partial shade.	Medium to tall shrub for farmstead windbreaks, highway and riparian plantings. Important to songbirds and animals for nesting, loafing, and bedding area. Fruit is not a preferred food for songbirds and game birds. Twigs and foliage browsed by deer.	
Nannyberry	Adapted to a variety of soils.	Limited drought tolerance	3'-8'	15'-20'	Moderate growth. Full sun to partial shade.	Medium to large shrub for farmstead windbreaks and riparian plantings. Food for wildlife, good cover.	
Blue Arctic Willow	Prefers moist to wet soils; tolerant of dry and nutrient-poor soils.	Fair drought tolerance.	5'	10'	Fast growing. Partial to full sun.	Rounded shrub with attractive purple stems. An excellent option for a windbreak or shelterbelt.	
Common Purple Lilac	Adapted to a wide variety of soils.	Drought tolerant, does not withstand ponding.	3'-8'	8'-12'	Moderate growth. Full sun.	Medium to tall shrub for farmstead windbreaks and highway beautification. Occasionally used in field windbreaks. Spreads by suckering. Showy, fragrant flowers.	

