# Recommended Trees for North Dakota Communities



Top left: Briarwood Court playground, Wahpeton. Top right: Downtown Valley City. Bottom: Sargent County Courthouse, Forman

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Please keep **DIVERSITY** of species in mind-communities should take steps to choose varieties that do not currently dominate the landscape. Follow this guideline:

- 20% or less of trees from the same Genus
- 10% or less of trees from the same Species

#### **EXAMPLE:**

*Tilia* (Genus) *americana* (Species): American linden (Common name) *Tilia* (Genus) *cordata* (Species): Littleleaf linden (Common name)

For example, if your community has 15% American linden and 8% Littleleaf linden (23% total for the Genus), then you may want to stay away from planting lindens.

A Tree Inventory & Plan (TIP)/public tree inventory\* is an excellent resource for managing community trees. Go to https://ndcitytrees.org/NorthDakota/, click 'Explore Cities'. Find your city and click on it. Scroll down and click 'Charts'. This will show you a pie chart of all of the tree species in your community. If any tree species on your list are more than 10%, avoid choosing those species when selecting trees for planting.

\*contact NDFS Community Forestry staff if your community does not have a TIP/public tree inventory.

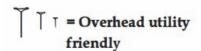
# SYMBOLS KEY







= Pollinator friendly

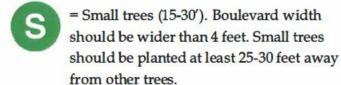




= Large trees (45' & up). Boulevard width should be 7 feet or larger. Large trees should be planted more than 35 feet away from other trees.



= Medium trees (30-45'). Boulevard width should be 5 feet or larger. Medium trees should be planted at least 30-40 feet away from other trees.



#### **ALDER**

Alnus hirsuta 'Harbin'

# Prairie Horizon Manchurian alder





Zone: 3

Height: 30-40' **Spread**: 20-30' Shape: Upright Foliage: Dark green Fall color: Yellow

NDSU selection for upright growth and attractive foliage. Rapid growing. Decorative purple catkins and clusters of brown cone-like fruit. Drought tolerant. (1,4,6,7,10,12)

#### **BIRCH**

Betula platyphylla 'Fargo'



# Dakota Pinnacle birch



**Zone**: 3 Height: 35' Spread: 10-12'

Shape: Upright, columnar

Foliage: Dark green

Fall color: Golden yellow

NDSU selection for form and bronze birch borer resistance. Tolerant of heat, drought, and alkaline soils. (1,7,11,12)

Betula platyphylla 'Jefpark' PP25,468



#### Parkland Pillar birch



**Zone**: 3 Height: 40' Spread: 6-7'

Shape: Narrow, upright **Foliage**: Dark green Fall color: Yellow

Fast growing, suitable for screens or boulevard plantings. Tolerant of drought, heat, and alkaline soils. (7,11) \*see photo on page 14

#### Betula papyrifera 'Varen' PP15768

# Prairie Dream paper birch





Zone: 2

**Height**: 35-40' Spread: 20-25'

**Shape**: Upright, oval Foliage: Dark green Fall color: Bright gold

NDSU selection for snow-white peeling bark. Excellent cold hardiness and resistance to bronze birch borer. Prefers a moist, welldrained site. (1,11,12)

#### **BUCKEYE**

*Aesculus x arnoldiana* 'Autumn Splendor'



# Autumn Splendor buckeye



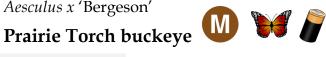
Zone: 3

Height: 30-35' Spread: 25'

Shape: Rounded Foliage: Dark green Fall color: Red

Large white blooms in spring, followed by brilliant red fall color. Prefers moist soil and full sun. Tolerates a wide range of soil conditions. (1,6,7,10)

Aesculus x 'Bergeson'









Zone: 3 Height: 30' Spread: 30'

Shape: Round, upright Foliage: Dark green Fall color: Orange-red

NDSU selection, showy yellow flowers. Fruit are spiny golf ball sized capsules that attract wildlife. Prefers moist, well-drained soils. (11,12)

### **CATALPA**

Catalpa speciosa

# Northern catalpa





Zone: 4 **Height**: 50-60' **Spread**: 35-40'

**Shape**: Upright, oval

Foliage: Green, heart shaped Fall color: Yellow-green

Fast growing. 2" long, tube-like white flowers appear in 4-8" clusters. Fruit is a long persistent pod. Very tolerant of heat and drought. (4,6,7,10,11)



#### **CHOKECHERRY**

Prunus maackii

# Amur chokecherry S









Zone: 2 **Height**: 20-30' **Spread**: 25-30' **Shape**: Rounded Flower: White Fall color: Yellow

Very hardy, non-suckering. Produces white flowers and black fruit. Striking metallic, goldenbrown, exfoliating bark. Good wildlife plant. (1,7) Prunus maackii 'Ming'

# Ming chokecherry









**Zone**: 3 Height: 10' **Spread**: 5-10'

Shape: Round, upright

Flower: White Fall color: Yellow

Clusters of white flowers late spring followed by small black fruit. Attracts birds. Exfoliating bark. (10)

#### **COFFEETREE**

Gymnocladus dioicus 'Espresso-JFS'

# **Espresso Kentucky** coffeetree









Zone: 4 **Height**: 50-60' **Spread**: 35-40'

**Shape**: Oval to vase Foliage: Bluish-green Fall color: Yellow

Seedless cultivar. Drought tolerant. Excellent for tough urban locations. (1,6,7,10,11)

# **CORK TREE**

Phellodendron amurense 'His Majesty'





# His Majesty cork tree



**Zone**: 3 Height: 40' **Spread**: 35'

**Shape**: Broad vase Foliage: Medium green

Fall color: Yellow

Fast growing, upright spreading. Generally seedless. (10,11)

#### **CRABAPPLE**

Malus 'Dolgo'

# Dolgo crabapple





Zone: 3 Height: 30' **Spread**: 25-30' Flower: White Fruit: Red, edible Foliage: Green

One of the hardiest and earliest of the crabapples to bloom. Pink buds open to large, fragrant white flowers. Abundant fruits ripen in late summer are edible and excellent for jelly. (7,11)

*Malus x adstringens* 'Durleo' PP20,167



#### Gladiator crabapple



Zone: 2 Height: 20' Spread: 9' Flower: Pink

**Fruit:** Reddish-purple Foliage: Bronze-purple

Upright, columnar and compact. Ideal for spacechallenged sites. (3,6,7)

Malus 'Jarmin' PP 14337







# Marilee crabapple



Zone: 4 Height: 25' Spread: 10' Flower: White

Foliage: Medium green Fall Foliage: Orange

Upright, narrow form and virtually fruitless. Good disease resistance. (6,7,10,11)

Malus 'Red Splendor'





Zone: 3 Height: 20-25' Spread: 20' Flower: Pink Fruit: Red

Foliage: Glossy green

Rounded form. Shiny, cherry-like, red, extremely persistent fruits. Good wildlife plant. (3,6,7)

#### Additional crabapple species **Flower Fruit** Zone **Adams** (*Malus* 'Adams') Pink Red **Adirondack** (*Malus* 'Adirondack') White Bright red 4 Coralburst (Malus 'Coralcole') Pink Red-orange 3 Emerald Spire (Malus 'Jefgreen' PP23,863) Pink Red 2 **Pink Spires** (*Malus* 'Pink Spires') 2 Light pink Purple-red **Prairifire** (*Malus* 'Prairifire') Red-purple Maroon, cone shaped 4 **Red Barron** (*Malus* 'Red Barron') Dark red to pink Dark red 4 Fuschia-red **Show Time** (*Malus* 'Shotizam') Red 3 **Sugar Tyme** (*Malus* 'Sutyzam') 4 Snowy white Rich red **Thunderchild** (*Malus* 'Thunderchild') 3 Pink Dark red

# ELM \*all elms listed have resistance to Dutch elm disease (DED)

A NOTE ON ELMS: There are many different DED resistant elms available. Please be aware of MAINTENANCE needs. All American elm selections require a significant investment in pruning during the first 10-15 years. Elms that have high or very high maintenance requirements will need the most attention (more species are listed on page 7). Regardless of species chosen, it is recommended to contact NDFS community forestry staff for a pruning workshop once elms are established (2-3 years after planting).

*Ulmus americana* 'Lewis & Clark'







# **Prairie Expedition® elm**



Zone: 3 Height: 55' Spread: 60'

**Shape**: Rounded to spreading vase Foliage: Dark green Fall color: Yellow

NDSU selection, fast growth, moderate maintenance during formative years. Tough and extremely cold hardy. High DED resistance. (1,2,6,7,8,10,11,12)

Ulmus davidiana var. japonica 'Discovery'





# Discovery elm



Zone: 3 Height: 35-40' Spread: 30'

Shape: Upright, vase

Foliage: Green **Fall color**: Yellow

Slow growth rate, moderate maintenance during formative years. Similar in shape to the American elm but smaller. Adapts well to a variety of soils. Stress and drought tolerant. (2,6,7,8,10,11)

Ulmus davidiana var. japonica 'Burgundy Glow'



### Northern Empress elm



Zone: 3 Height: 28' Spread: 24'

Shape: Rounded open crown

Foliage: Green

Fall color: Burgundy red

NDSU selection. Very hardy small to medium sized elm. Tolerant of higher pH soils. Good drought tolerance. (6,10,12)

Ulmus x 'Morton'









Zone: 4 Height: 50-60' **Spread**: 25-40' Shape: Upright Foliage: Deep green Fall color: Golden

yellow

Fast growth, moderate maintenance during formative years. Excellent disease and pest resistance. (2,6,7,8,10,11)



#### Ulmus 'Cathedral'

#### Cathedral elm





Zone: 4

**Height**: 40-50' Spread: 40-60'

Shape: Broadly vase-shaped

Foliage: Medium to light

green

Fall color: Yellow

Very fast growth, very high maintenance during formative years. Good disease and pest resistance. (2,6,7,8,10,11)

#### Ulmus 'Morton Glossy'

# Triumph elm





Zone: 4 Height: 60' **Spread**: 35-40' Shape: Upright

Foliage: Glossy, deep green

Fall color: Yellow

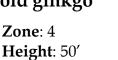
Very fast growth, moderate maintenance during formative years. Good disease and pest resistance. (2,6,7,8,10,11)

Additional elm species		Zone	<b>Maintenance</b>	<b>Growth Rate</b>
•	'Princeton' elm (Ulmus americana 'Princeton')	4	Very high	Fast
•	'St. Croix' elm (Ulmus americana 'St. Croix')	4	Very high	Very fast
•	'Valley Forge' elm (Ulmus americana 'Valley Forge')	4	Very high	Very fast
•	'New Horizon' elm (Ulmus 'New Horizon')	4	High	Very fast
•	'Vanguard' elm (Ulmus 'Morton Plainsman')	4	High	Fast

#### **GINKGO**

Ginkgo biloba 'Autumn Gold'

# Autumn Gold ginkgo



Spread: 30'

Shape: Upright broad conical

Foliage: Green Fall color: Yellow

Fruitless selection. Fan-shaped leaves. Tolerant of urban conditions. (6,7,10,11)



#### **HACKBERRY**

Celtis occidentalis

# Hackberry







Zone: 2 **Height**: 50-75' Spread: 50'

Shape: Spreading, rounded

Foliage: Bright green Fall color: Soft yellow

Tall, spreading, native tree. Very adaptable to urban conditions. (1,4,6,7,9,10,11)



<sup>\*</sup> see photo on page 14

#### **HAWTHORN**

Crataegus crus-galli var. inermis

# **Thornless Cock-spur** hawthorn





Zone: 4 **Height**: 15-20' **Spread**: 15-20'

**Shape**: Rounded, spreading

Foliage: Dark green Fall color: Orange

Abundant white flowers in early summer, followed by small bright red persistent fruit in autumn. Prefers moist conditions, but is drought-tolerant. (1,7,11)

*Crataegus x mordenensis* 'Snowbird'



#### Snowbird hawthorn



Zone: 4 **Height**: 12-15' Spread: 20'

**Shape**: Upright, rounded Foliage: Dark green Fall color: Yellow

Fragrant double white flowers, minimal fruit production. (1,7,11)

# **HONEYLOCUST**

Gleditsia triacanthos var. inermis 'Harve'

# honeylocust





**Zone**: 3

**Height**: 35-45' **Spread**: 30-35'

Shape: Symmetrical, upright

Foliage: Dark green Fall color: Yellow

NDSU selection for hardiness. Thornless and seedless, drought resistant. (1,6,7,10,11,12)

Gleditsia triacanthos 'Skycole'

# **Skyline honeylocust**







Zone: 4 Height: 45' Spread: 35'

**Shape**: Broadly pyramidal

Foliage: Dark green Fall color: Golden yellow

Thornless and essentially fruitless. (7,11)

Gleditsia triacanthos 'Suncole'

# **Sunburst honeylocust**







Zone: 4 Height: 40' Spread: 35'

Shape: Irregularly rounded

**Foliage**: Bright yellow tip growth

Fall color: Yellow-brown

Bright golden yellow, fine textured foliage.

Thornless and seedless. (7,11)

\*see photo on page 2

# **IRONWOOD**

Ostrya virginiana

# Ironwood/American hophornbeam









**Zone**: 3 Height: 30-45' Spread: 25'

**Shape**: Oval to rounded Foliage: Bright green Fall color: Golden yellow

Slow growing. Hop-like fruits in late summer. Full sun to part shade. Prefers moist, well-

drained soils. (1,4,6,7,9,10,11)

#### **KATSURA**

#### Cercidiphyllum japonicum

#### Katsura





Zone: 4 Height: 40-60' **Spread**: 20-30'

Shape: Pyramidal, broad Foliage: Bluish-green Fall color: Yellow

Heart-shaped foliage. Little tolerance for drought when young. Relatively tolerant of alkaline soil. A good selection for a park or garden. (7,10,11)

#### LILAC

#### Syringa reticulata

# Japanese tree lilac



**Zone**: 3 Height: 25' Spread: 25'

Shape: Spreading Foliage: Deep green Fall color: Yellow

Creamy white flowers in large panicles early summer. Glossy red-brown bark. Tolerates a wide variety of moist, well-drained soils. (1,4,5,6,7,9,10)

Syringa reticulata 'Ivory Silk'

# **Ivory Silk** Japanese tree lilac



Zone: 3 Height: 25' Spread: 15'

Shape: Compact, oval Foliage: Deep green Fall color: Yellow

Sturdy, more compact, oval growth habit. Cherrylike bark, large creamy white flower clusters. (1,4,5,6,7,9,10)

# LINDEN/BASSWOOD

Tilia americana

# American linden











Zone: 3

Height: 75-90' **Spread**: 40-50'

**Shape**: Rounded at maturity Foliage: Large, dark green

Fall color: Yellow

Tall, spreading, adaptable, native linden. Fragrant yellow flowers and large, dense foliage. (1,4,6,7,10)

Tilia americana 'Bailyard'

# Frontyard® linden







**Zone**: 3

Height: 60-75' Spread: 40'

Shape: Rounded Foliage: Green Fall color: Yellow

Broadly pyramidal when young and nicely rounded with age. Dense foliage offers excellent shade. (1,7,10)

Tilia americana 'Boulevard'

#### Boulevard linden

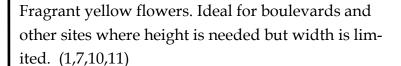








**Shape**: Pyramidal Foliage: Dark green Fall color: Yellow



#### Tilia americana 'Redmond'

#### Redmond linden





**Zone**: 3 **Height**: 40-60' **Spread**: 25-30'

**Shape**: Pyramidal, uniform Foliage: Glossy, light green Fall color: Bright yellow

Dense foliage, very hardy. Fragrant clusters of pale yellow flowers. (1,7,10,11)

#### Tilia cordata

#### Littleleaf linden





Zone: 4 **Height**: 35-45' **Spread**: 30-35'

Shape: Broad, pyramidal Foliage: Glossy, dark green

Fall color: Yellow

Glossy dark foliage and fragrant pendulous flowers in early summer. Very adaptable, does well in poor soil. (1,4.7,9,10)



Tilia cordata 'Greenspire'

# Greenspire linden







Zone: 4 Height: 40' **Spread**: 30-35' **Shape**: Oval

Foliage: Leathery, dark green

Fall color: Yellow

Fragrant, creamy-yellow flowers are followed by a small nutlet. Tolerant of urban conditions. (1,7,10,11)

Tilia x mongolica 'Harvest Gold' PP12,232

#### Harvest Gold linden







Zone: 2 Height: 30-40' **Spread**: 25-30'

Shape: Upright, oval Foliage: Green

Fall color: Golden yellow

A very hardy selection with upright growth. Glossy, heart shaped leaves and fragrant yellow blooms in early summer. Exfoliating bark. (1,4,7,10,11)

#### **MAACKIA**

Maackia amurensis

#### Amur maackia









Zone: 4 **Height**: 20-30' **Spread**: 25-35' **Shape**: Rounded

Foliage: Dark olive green

Fall color: Yellow

White flowers bloom mid-summer. Amber to copper colored bark. Adaptable to a range of soils. (1,5,6,7,10,11)

#### **MAPLE**

A NOTE ON MAPLES: In North Dakota, maples are often subject to iron and manganese chlorosis on high pH (alkaline) soils, which may cause dieback or death. Maples with iron and manganese chlorosis will exhibit yellow leaves with bright green veins. If there are maples in your community that have leaves that exhibit those symptoms, choose alternative trees.

For more information on iron chlorosis in trees, please visit: <a href="https://www.ag.ndsu.edu/">https://www.ag.ndsu.edu/</a>
<a href="publications/lawns-gardens-trees/iron-chlorosis-in-trees">https://www.ag.ndsu.edu/</a>
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Acer x freemanii 'AF #1' PP15,593



# Firefall maple

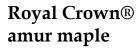


Zone: 4 Height: 40-60' Spread: 30-40'

**Shape**: Upright, oval **Foliage**: Medium green **Fall color**: Orange to scarlet

Seedless selection with good branch angles. Exceptional cold hardiness, fast growing. (7,10,11)

Acer ginnala 'Jefum'











**Zone**: 2

**Height**: 10-20' **Spread**: 10-20'

Shape: Round, upright

Foliage: Green

**Fall color**: Red to deep purple

Multi-stemmed. Tolerant of alkaline soils. (10)

Acer miyabei 'Morton'

# State Street maple







Zone: 4 Height: 50' Spread: 35'

**Shape**: Upright oval **Foliage**: Dark green **Fall color**: Yellow

Excellent drought and cold tolerance. (7,10,11)

Acer tataricum 'GarAnn' PP15,023

# **Hot Wings maple**





**Zone**: 3 **Height**: 20-25' **Spread**: 18-20'

**Shape**: Upright, spreading

Foliage: Dark green Fall color: Yellow to red

Bright red samaras. Tolerant of alkalinity and dry conditions. (1,5,7,11)



#### OAK

A NOTE ON OAKS: There are two groups of oak- white oak and red oak. The red oak group largely has poor adaptability to environmental conditions in North Dakota. The white oak group has much greater resistance to oak wilt than the red oak group. **Oak wilt is currently NOT found in North Dakota.** All of the trees listed below are in the white oak group. For more information on oak wilt, please visit: <a href="https://www.ndinvasives.org/oak-wilt">https://www.ndinvasives.org/oak-wilt</a>

Quercus macrocarpa

#### Bur oak





Zone: 3

Height: 60-80' Spread: 40'

**Shape**: Rounded, open **Foliage**: Dark green **Fall color**: Yellow-brown

to purple

Drought tolerant native oak of the white oak family. Tolerates a wide range of soil types and air pollutants. Attractive corky bark. (1,4,6,7,9,10,11)

Quercus macrocarpa 'JFS-KW14'

#### Cobblestone oak





Zone: 3 Height: 55' Spread: 25-30'

**Shape**: Narrow, upright **Foliage**: Glossy, dark green **Fall color**: Orange-yellow

Unusually corky branches. (1,6,11)

Quercus macrocarpa 'JFS-KW3' PP22815

# Urban Pinnacle oak



Zone: 3 Height: 55' Spread: 25-30'

**Shape**: Narrow, upright **Foliage**: Glossy, dark green **Fall color**: Orange-yellow

Lobed, dark green glossy foliage. Heat and drought tolerant. (1,6,10,11)

Quercus x bimundorum 'Midwest'

#### Prairie Stature oak





Zone: 3 Height: 30-40' Spread: 25-30' Shape: Pyramidal

**Foliage**: Glossy, dark green **Fall color**: Reddish-purple

Outstanding NDSU selection. Prefers a moist, well-drained site. Excellent boulevard, feature, or park tree. (1,6,7,10,11,12)



Quercus x warei 'Long'

# Regal Prince oak







Zone: 4 Height: 40' Spread: 20-25'

**Shape**: Upright oval **Foliage**: Dark green **Fall color**: Yellow-brown

Grows faster than other oak, becoming oval with age. Tolerates wet or dry soil conditions. (6,7,10,11)

### **SERVICEBERRY**

Amelanchier x grandiflora 'Autumn Brilliance'

# **Autumn Brilliance** serviceberry







Zone: 3 Height: 20-25' **Spread**: 15'

**Shape**: Rounded

Foliage: Small, blue-green Fall color: Red-orange

White blossoms in spring, followed by sweet purplish-black fruit. Fall leaves are quite persistent. (1,4,5,7,11)

# **WALNUT**

Juglans nigra

# Black walnut







Zone: 4 Height: 35-60'

**Spread**: 30-50'

**Shape**: Oval to rounded

Foliage: Green Fall color: Yellow

Prefers moist, well drained soils. Fruit is a drupe bearing a nut. Good for wildlife. (1,4,6,7,9,11)

# **WILLOW**

Salix pentandra 'Silver Lake'



#### Prairie Reflection laurel willow



Zone: 2 **Height**: 35-40' Spread: 25' **Shape**: Rounded

Foliage: Shiny, dark green

Fall color: Golden yellow

NDSU selection, Grows rapidly. Dark green highly glossy foliage. (1,7,12)





# **FAMILY LIST**

A Family is a single group of genera that closely or uniformly resemble each other in general appearance and technical character.

Betulaceae (Birch)

Alder

eg: Prairie Horizon

Birch

eg: Dakota Pinnacle

Ironwood

Bignoniaceae (Catalpa)

Northern catalpa

Cannabaceae (Hemp)

Hackberry

Cercidiphyllaceae

Katsura

Fabaceae (Bean/Pea/Legume)

Honeylocust

eg: Northern Acclaim

Kentucky coffeetree

eg: Espresso

Maackia

eg: Amur

Fagaceae (Oak)

Oak

eg: Bur

Ginkgoaceae (Ginkgo)

Ginkgo

eg: Autumn Gold

Juglandaceae (Walnut)

Black walnut

Malvaceae (Mallows)

Linden/Basswood eg: American Oleaceae (Olive)

Japanese tree lilac eg: Ivory Silk

Roseaceae (Rose)

Chokecherry

eg: Amur

Crabapple

eg: Dolgo

Hawthorn

eg: Snowbird

Serviceberry

eg: Autumn Brilliance

Rutaceae (Rue/Citrus)

Cork tree

eg: His Majesty

Salicaceae (Willow)

Willow

eg: Prairie Reflection

Sapindaceae (Soapberry)

Buckeye

eg: Autumn Splendor

Maple

eg: Firefall

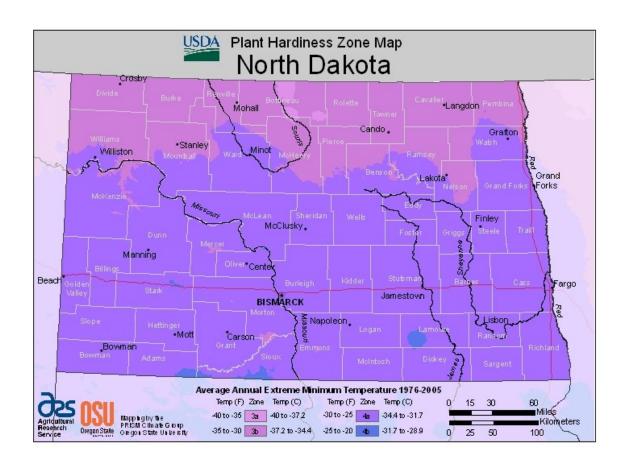
<u>Ulmaceae (Elm)</u>

Elm

eg: Prairie Expedition

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