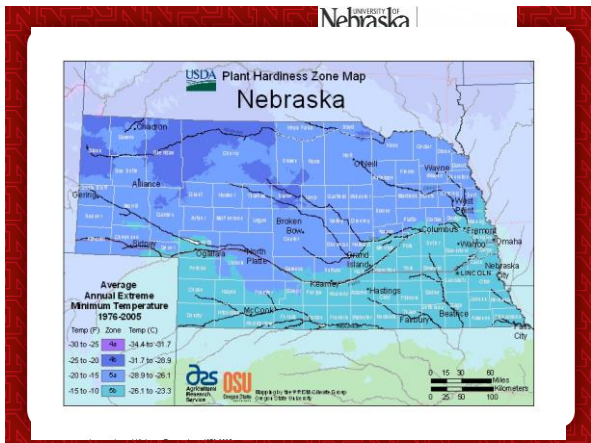


1

## Tree Selection

- So many great trees!
- What are you looking for in a tree?
  - Flowering, Fall Color, Shade, Windbreak, Erosion control, etc.
- No Tree is perfect
  - Avoid unrealistic expectations for a tree
- Start with a good tree
  - Local source
  - Avoid trees from Southern US
- Make sure it is adapted for your hardiness zone

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## Use Native and Well-Adapted Trees

- More prepared to deal with Nebraska weather
- Have less need for extra watering once established
- Have fewer damaging pests so we can use less pesticides
- Live longer
- Thrive
- Diversity is key

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## Tree Diversity

- Previous diversity recommendations
  - 10% from one species
  - 20% from one genus
  - 30% from one family
- Dr. John Ball, SDSU suggests only 5% from one genus
  - If 10% are white ash and 10% are green ash, still very vulnerable from EAB
- Avoid problems with total annihilation from next invasive pest
- Chestnut blight, Dutch Elm Disease, EAB, Pine Wilt...
  - All more damaging due to monocultures
- When planting a new tree look around your yard and neighborhood for selection to maintain diversity

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## Tree Diversity

- If plants evolve with the pest, it is easier for the plant to resist the damage
- Many pests are specific to genus or species
  - If a tree genus is found only on one continent or has few species of that genus, it is more likely to have fewer pest problems
  - Examples of such trees include Gingko, Kentucky coffeetree, Yellowwood, Catalpa, Siberian larch, Meyer's spruce and cork trees

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### Overplanted Trees

- Bradford Pear
- Autumn Blaze Maple
- Other Red Maple/Silver Maple crosses
- River birch
- Norway Maple
- American Linden (JB Magnet)
- Honeylocust




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### Underutilized Small Trees (under 20' tall)

- Red Buckeye
- Shantung Maple
- Dwarf Chinkapin oak
- Hornbeam
- Pawpaw



Pawpaw



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Shantung Maple





Hornbeam





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### Underutilized Medium Trees (20-40' tall)

- Ohio buckeye
- Amur corktree
- Turkish filbert
- Hophornbeam
- Horsechestnut
- Sweetgum (SE)



Ohio Buckeye



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Hophornbeam





Turkish Filbert






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### Underutilized Large Trees

- Catalpa
- Hackberry
- Sycamore
- Sweetgum
- Tulip Tree
- Sugar Maple
- Shagbark Hickory
- Ginkgo
- Kentucky coffeetree
- Oaks
  - Bur, chinkapin, English, white, swamp white



Catalpa



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**Shagbark Hickory**  
Jason Sharman, VitalTree, Bugwood.org

**Ginkgo**  
Jason Sharman, VitalTree, Bugwood.org 5454538

Steven Klotzovich, Bugwood.org 8305599

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**Kentucky Coffeetree**  
Paul Wray, Iowa State University Bugwood.org 03A2009216

**Bur Oak**

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### Evergreen Trees

- Pines
  - White, Ponderosa, limber, bristlecone (western NE), Jack (sandy), Bosnian
- Firs
  - Concolor, Balsam
- Douglasfir
- Spruce
  - Norway, White, Colorado Blue, Black Hills, Siberian, Serbian, Meyer
- Junipers
  - Eastern Red Cedar, Taylor, Chinese
- Larch (deciduous conifer)
- Bald cypress (deciduous conifer)

**Bald Cypress**

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**Concolor Fir**

**Norway Spruce**

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### Trees to avoid planting

- All Ash species
  - EAB
- Pin Oak
  - Chlorosis
- Scotch and Austrian Pine
  - Pine wilt
- Austrees
  - Fast growing, break easily, disease issues, short-lived
- Royal Paulownia (Empress Tree)
  - Considered invasive in Midwest, fast growing, break easily
- Silver Maples
  - Fast growing, break in storms
- Siberian Elm
  - Weedy, fast growing, break in storms


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### For More Information


- Missouri Botanical Gardens
  - <https://www.missouribotanicalgarden.org/>
  - Plant Finder: <http://www.missouribotanicalgarden.org/plantfinder/plantfindersearch.aspx>
- Minnesota Landscape Arboretum
  - <https://arb.umn.edu/>
- google hornbeam site:edu
  - Hornbeam, extension
  - Hornbeam, Nebraska extension
- Plant Lists
  - Eastern or Western Nebraska

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Thank You!!

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