

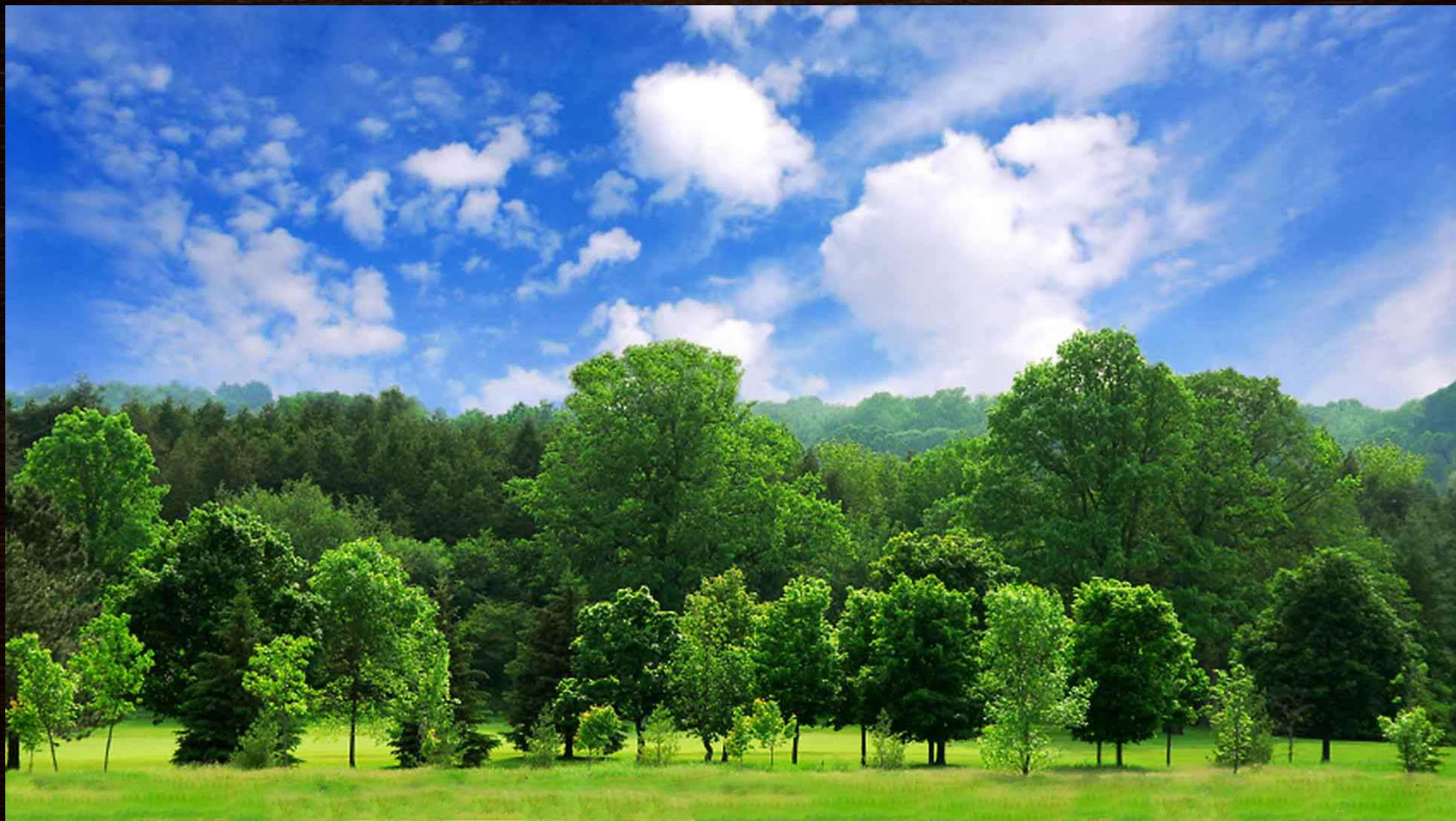


# Trees for Nebraska

HEATHER BYERS  
NE. CERTIFIED NURSEYMAN  
GREAT PLAINS NURSERY  
WESTON, NE









Survival in nature requires **genetic diversity** & **adaptability** to environmental changes.





# Genetic Diversity

- Seed grown vs. clones



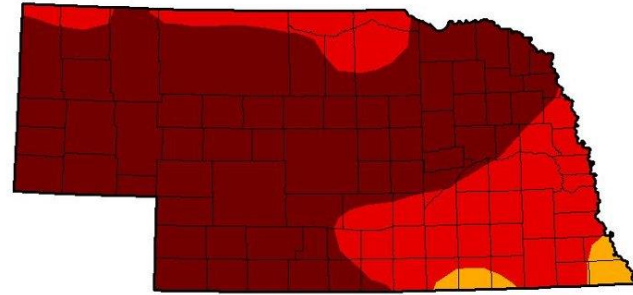


# Adaptability

- Temperature Swings
- Flooding
- Drought

Site	Temp/Dewpoint Before Heat Burst	Temp/Dewpoint After Heat Burst
Grand Island Airport ASOS	73/67 (2:53 a.m.)	99/41 (5:10 a.m.)
Hastings Airport ASOS	73/66 (1:53 a.m.)	97/39 (3:53 a.m.)
Holdrege Airport AWOS	77/68 (12:35 a.m.)	88/47 (2:35 a.m.)
Kearney Airport AWOS	75/66 (12:55 a.m.)	97/43 (3:15 a.m.)
Lexington Airport AWOS	79/68 (11:55 p.m.)	87/48 (2:15 a.m.)
Aurora Airport AWOS	73/63 (5:37 a.m.)	91/46 (6:38 a.m.)

June 2013



Source: <http://droughtmonitor.unl.edu/>

Figure 1. U.S. Drought Monitor Map of Nebraska on September 18, 2012



Deshler, NE - May 2015



# Native Trees

- Utilize native trees that have evolved in our conditions
- Seed source??





# Tree Selection

- Oaks – White group

- Bur Oak
- Chinkapin Oak
- Dwarf Chinkapin
- White Oak
- Gambel Oak
- Shingle Oak
- Overcup Oak
- Chestnut Oak
- Hybrids

- Oaks – Red group

- Red Oak
- Black Oak
- Hill's Oak
- Shumard Oak



# Relict Bur Oak

Burr Oak Canyon – near McCook, NE



Characteristics of both Post Oak and Gamble Oak

The name refers to the ecology form meaning a plant that exists as a remnant of a formerly widely distributed group in an environment.



# Tree Selection

- Kentucky Coffeetree
- Boxelder Maple
- Sugar Maple – Table Rock, NE
- Ohio Buckeye
- Niobrara Paper Birch
- Northern Pecan
- Black Walnut
- Northern Catalpa
- Hackberry
  - Leeman Springs (Hackberry Hollow)
- American Sycamore
- Prairie Gold Aspen
- Cottonwood
- Ironwood
- Pawpaw
- Black Cherry
- American Plum
- Chokecherry
- American Linden
- American Elm



# Birds, Bees & Butterflies



Oaks support 534 species of caterpillars



# OAK SEEDLINGS

NEWLY TRANSPLANTED  
5/20/14  
2 MONTHS OLD



8/5/14  
5 MONTHS OLD



7/1/14  
4 MONTHS OLD



GREAT PLAINS NURSERY



# Tree Structure for Nebraska







Who said Bur oaks are slow growing?

#7 RT Bur Oak – **4 years** after planting in Omaha







PLANT TREES!



Thank you

HEATHER BYERS

402.540.4801

HEATHER@GREATPLAINSNURSERY.COM

