We Can Do Better!

- Better species -- several hundred suitable for Utah
- Better cultivars
- Better match of tree to site
Factors in Matching Tree to Site

- Water (too little, too much)
- Soil pH
- Other soil limitations
- Heat
- Cold
- Size (trunk, crown, roots)
- Shade tolerance
Remember to Match Trees to People

• Provide what people want
• Opportunities in xeriscaping and firewise landscaping
  – Takes detailed knowledge of site characteristics and plant capabilities, along with strong design sense
  – Much of this isn’t getting done because so few good, functional, and attractive examples
Some Trees to Avoid

- *Any* willow (*Salix* species)
- Almost any poplar/cottonwood (*Populus* species)
- quaking aspen (*Populus tremuloides*)
- silver maple (*Acer saccharinum*)
- Russian-olive (*Elaeagnus angustifolia*)
- European white birch (*Betula pendula*)
- blue spruce in hot locations (*Picea pungens*)
What About Natives?

- Mountains vs. valleys -- what is native?
- Extreme climate variability due to elevation
- Most natives not in cultivation
- Good and available: canyon maple (Acer grandidentatum), R. Mtn. juniper (Juniperus scopulorum), bristlecone pine (Pinus aristata), ponderosa pine (P. ponderosa), Gambel oak (Quercus gambelii)
- Have promise: California redbud (Cercis occidentalis), netleaf hackberry (Celtis reticulata), mountain-mahoganies (Cercocarpus), desert-willow (Chilopsis linearis), others?
- Many more appropriate shrubs
- Well-adapted non-natives
Some Better Trees for Utah Cities

- European hornbeam (*Carpinus betulus*)
- European beech (*Fagus sylvatica*)
- ginkgo (*Ginkgo biloba*)
- Kentucky coffeetree (*Gymnocladus dioicus*)
- yellow-poplar (*Liriodendron tulipifera*)
- bur oak (*Quercus macrocarpa*)
- white oak (*Quercus alba*)
- chinkapin oak (*Quercus muehlenbergii*)
Some Better Trees for Utah Cities

- English oak (*Quercus robur*)
- Japanese tree lilac (*Syringa reticulata*)
- lacebark (Chinese) elm (*Ulmus parvifolia*)
- European larch (*Larix decidua*)
- giant sequoia (*Sequoiadendron giganteum*)
- Blackhills (white) spruce (*Picea glauca ‘Densata’*)
- lacebark pine (*Pinus bungeana*)
- bristlecone pine (*Pinus aristata*)
European hornbeam (*Carpinus betulus*)
European beech (Fagus sylvatica)
Ginkgo (Ginkgo biloba)
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Lacebark pine (*Pinus bungeana*)
Bristlecone pine (*Pinus aristata*)
Tree Browser Website
www.treebrowser.org

• Includes 241 trees
• Select 21 characteristics
• 1,100 photos
• Text descriptions
• Select and save favorites