

# Conifers In The Great Plains

Presented By  
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# Current Insect and Disease Issues

# Pine Wilt





# Dothistroma Needle Blight





# Diplodia Tip Blight



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Diplodia tip blight on pine.



ISU Plant Disease Clinic

# Bagworm





# Pine Beetle







# Environmental Issues





# An Optimistic Future

- ~ many situations can be prevented  
(proper spacing, variety selection)
- ~ many issues are cyclical  
(infestations in old age forests)
- ~ conifers can handle adversity  
(proper placement, watering or lack thereof)



Lessons from Nature



# Ponderosa Pine (*Pinus ponderosa*)

Fort Robinson State Park, NE





Limber Pine  
(*Pinus flexilis*) –  
Laramie, WY  
Age – unknown (1867+)





Trees for Success?



*Abies alba* – Silver Fir



*Abies balsamea* – Balsam Fir



*Abies balsamea*  
*phanerolepis* ~  
Canaan Fir





*Abies concolor* –  
Concolor Fir







*Abies concolor* 'Compacta' –  
Compact Concolor Fir







*Abies lasiocarpa* –  
Alpine Fir



*Abies lasiocarpa arizonica* –  
Corkbark Fir





*Abies homolepis* –  
Manchurian Fir







*Larix kaempferi* –  
Japanese Larch



*Larix laricina* ~  
American Larch







*Picea abies* ~  
Norway Spruce



*Picea abies* 'Pumila' – Dwarf Norway Spruce





# *Picea glauca* ~ White Spruce







*Picea glauca* 'Densata' ~  
Black Hills Spruce

*Picea glauca* 'Pendula' –  
Weeping White Spruce





*Picea glauca*  
'Yukon Blue' ~  
Yukon Blue  
White Spruce





# *Picea meyeri* – Meyer Spruce





*Picea pungens* 'Fat Albert' ~  
Fat Albert Blue Spruce



*Picea pungens* 'Bakeri' ~  
Bakeri Blue Spruce





*Picea pungens* 'Procumbens' ~  
Creeping Blue Spruce





# *Pinus banksiana* ~ Jack pine





*Pinus bungeana* ~  
Lacebark Pine





*Pinus cembra* ~  
Swiss Stone  
Pine



*Pinus cembra* 'Chalet' ~  
Swiss Stone Pine



*Pinus contorta latifolia* ~  
Lodgepole Pine







*Pinus cembroides edulis* ~  
Pinyon Pine

*Pinus flexilis* ~  
Limber Pine





*Pinus koreana* 'Silveray' ~  
Silveray Korean Pine



*Pinus flexilis* 'Vanderwolf Pyramid' ~  
Vanderwolf Pyramid Pine





*Pinus parviflora*  
'Glauc' –  
Japanese White  
Pine





*Pinus parviflora* 'Fukuzumi' ~  
Fukuzumi Japanese White Pine







*Pinus nigra* –  
Austrian Pine



# *Pinus ponderosa* – Ponderosa pine





# *Pinus resinosa* – Red Pine





*Pinus strobus* ~  
White Pine



*Pinus strobiformis* ~  
Southwestern White Pine





*Pinus ayacahuite* x  
*strobus* 'Domingo' ~  
Domingo Pine







*Pseudotsuga menziesii* 'Glauca' –  
Douglas Fir





*Taxodium distichum* ~  
Bald Cypress







The Future for  
Conifers in the  
Plains?









Thank You