

Leonard, James CTR USAF AMC 22 CES/CEH

From: Bob Neier [bneier@ksu.edu]
Sent: Thursday, June 25, 2009 1:19 PM
To: Leonard, James CTR USAF AMC 22 CES/CEH
Subject: tree care & new tree species
Attachments: Pine Wilt Prevention.doc

Bill,

A summary of our discussion from my site visit on Tuesday

You have four significant health issues on your existing trees

1. Green Ash - tops are dying back from Eastern Ash Bark beetle, and will probably kill the trees unless treated. Keep the dead areas pruned out to lessen the spread of the beetles to healthy tissue. Spray the trees with three applications at 14 day intervals starting in Mid May each year. Spray entire tree with permethrin from top to bottom.
2. Pines - Pine Wilt (this is when trees go from looking good to completely dead in 2-3 months) Remove trees as soon as tree is dead, and always before May 1 after it has died to keep the pine sawyer beetle from exiting and going to healthy trees. Pine wilt can be prevented with injection of abemectin to HEALTHY trees (see attachment). Once the tree is affected, it will die.
- 3.

Pines - Sphaeropsis/Diplodia Tip Blight - this is very treatable to manage this disease and keep the trees for years. <http://www.oznet.ksu.edu/library/plant2/1722.pdf> treat the third week of april and 2 weeks later each year using Propiconazole (Banner MAXX, Spectator); Thiophanate-methyl (Cleary's 3336F and 3336WP, AllBan, OHP

6672, T-Storm); Mancozeb (Protect DF); Copper (Camelot, Bordeaux mix); Mancozeb + copper (Junction) Thiophanate-methyl + chlorothalonil (Spectro 90G)

4. Trees dying on sides next to playgrounds - make a note to never apply soil sterilants to the playground sand. That is keeping weeds out but also will kill any tree with roots into the area. It is so sad to lose the shade around a playground. Roundup is not a sterilant and is very safe to the trees and kids.

Planting New Trees - The Preferred Trees for South Central Kansas

<http://www.kansasforests.org/pubs/community/SC%20Pref%20Trees%20-%20FINAL2.pdf>

Publication from K-State is a basis to work from. I would delete the following from that list though - Ash, Honeylocust & the hawthorns - all are having too many problems.

I would recommend that you to include diversity in your plantings for plant health and would include a minimum of 15 species on the property. Those that would do well on your site include: (I'm putting * at my favorites)

Small trees :

Amur Maple

*Eastern Redbud & Oklahoma Redbud

Smoketree

Canada Red Chokecherry

Medium Trees:

Trident Maple, * Hedge Maple, * Shantung Maple, * Chinese Pistache, * Chinkapin Oak, *
Western Soapberry, Osage orange

Large Trees:

* Hackberry, Ginkgo, *Kentucky Coffeetree, * Bur Oak, ***Shumard Oak, * English Oak, *
Sawtooth Oak, *London Planetree, * Lacebark Elm

Come by and see our arboretum sometime. I can show you around on weekdays with an
appointment.

Bob Neier

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