Sustainable Forestry Conference 11 April 2013, Florence

FOREST TREE PESTS What to Watch For



Bill Cook



Extension



Dead and dying trees are natural and serve important functions



Rapid leaf loss and death is not normal





- 1. Asian Long-horned Beetle
- 2. Emerald Ash Borer
- 3. Oak Wilt
- 4. Annosum Root Disease
- 5. Hemlock Woolly Adelgid
- 6. Balsam Woolly Adelgid
- 7. "Declines"

1. Asian Long-horned Beetle



Exotic Not Here Regulated Treatable

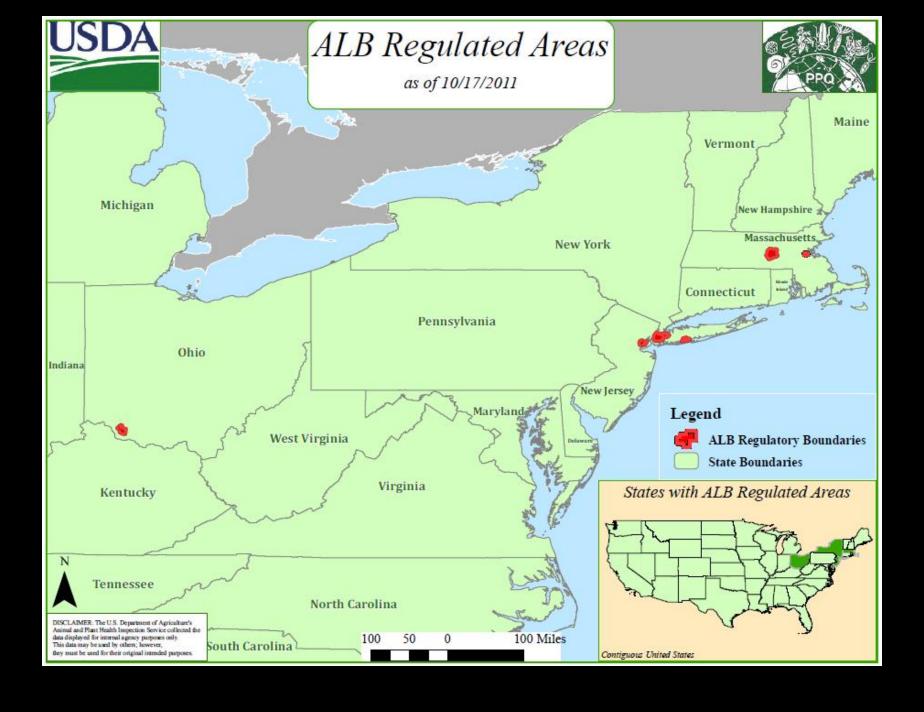


It's NOT... Or...



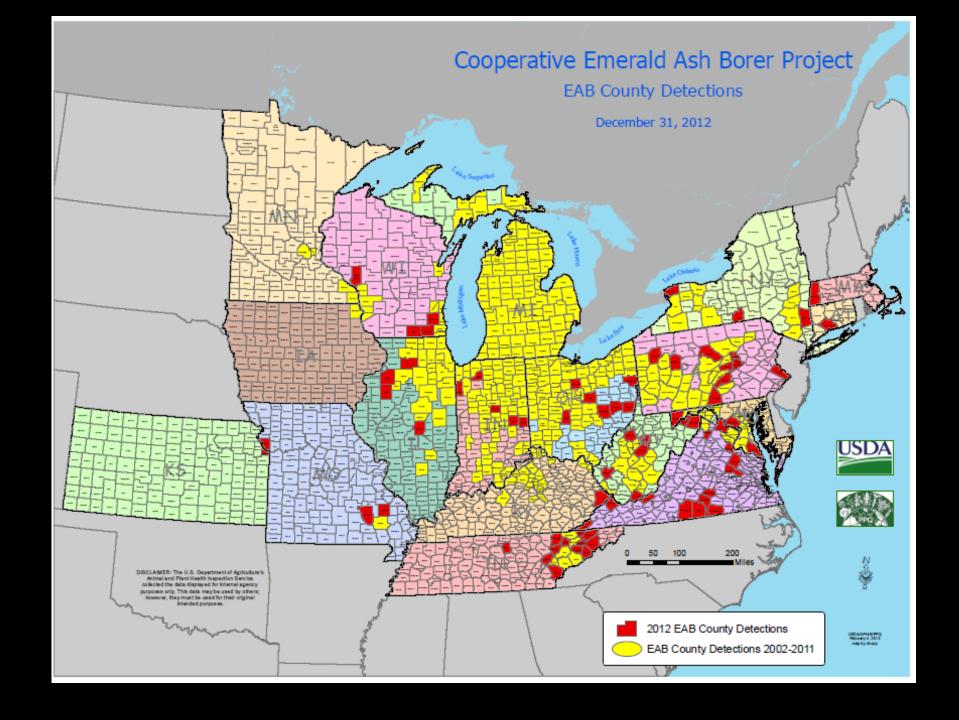
Elms
Willow
Birch
Aspen
Ash
Others





2. Emerald Ash Borer





3. Oak Wilt

Exotic
Is Here
Not Regulated
Treatable





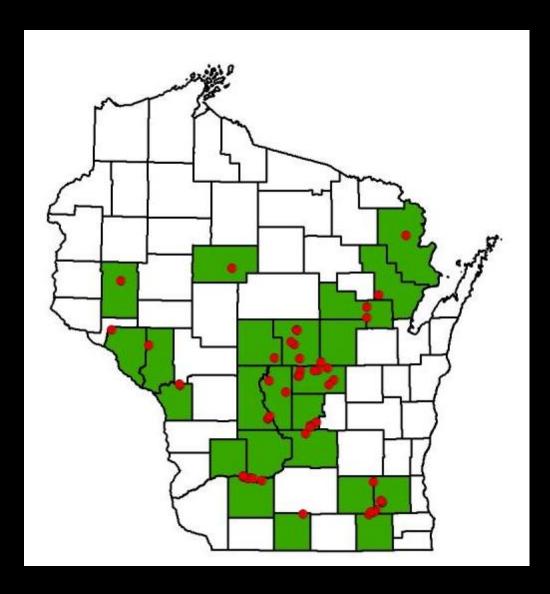


4. Annosum Root Disease



Native Is Here Regulated Treatable?





Fresh stumps Persistent Slow-acting



5 & 6. Woolly Adelgids



Exotic Not Here Regulated (HWA) Treatable







7. "Declines"

Conifers: inside & bottom Hardwoods: outside & top



7. "Declines"

Conifers: inside & bottom Hardwoods: outside & top



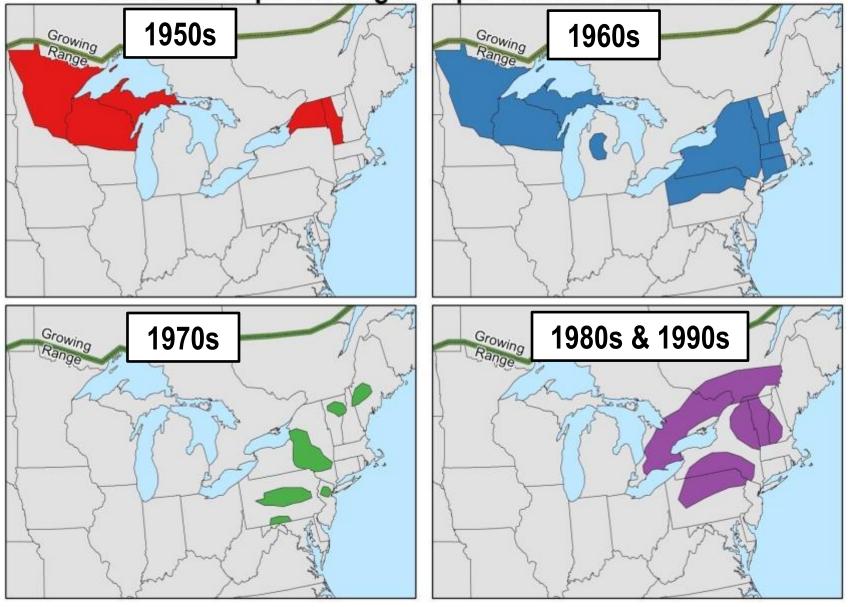


One particularly bothersome decline is in maple.



defoliations sugar maple borer fungi distribution climate deposition history forest composition interest by owners other factors?

Historical Reported Sugar Maple Dieback: 1950 - 2000



A note about chemical treatment . . .

ALB None

EAB TREE-äge

Oak Wilt Alamo

Annosum Sporax

HWA / BWA None

"Declines" None

Easy to "Google" for more info

Asian Long-horned Beetle Emerald Ash Borer Oak Wilt **Annosum Root Disease Hemlock Woolly Adelgid Balsam Woolly Adelgid Declines**

