

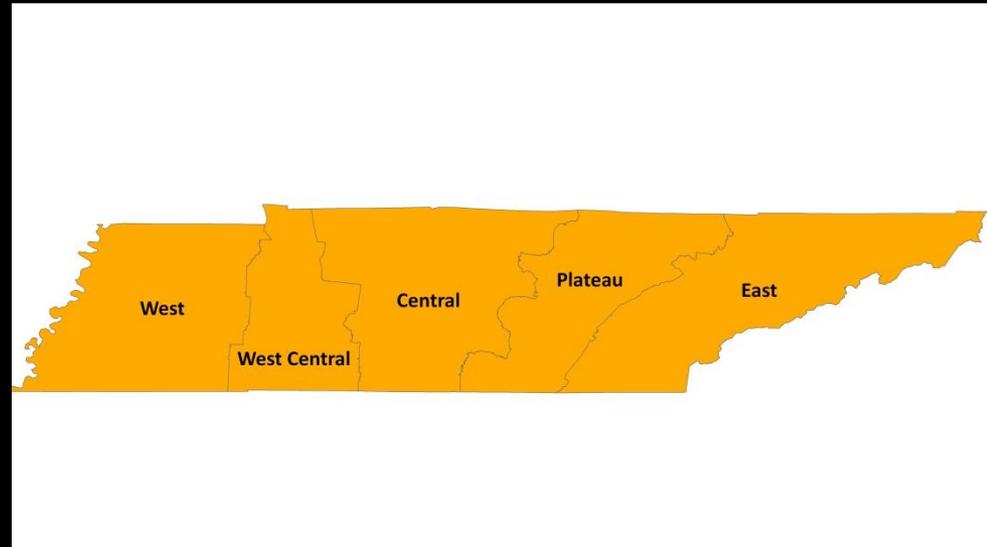
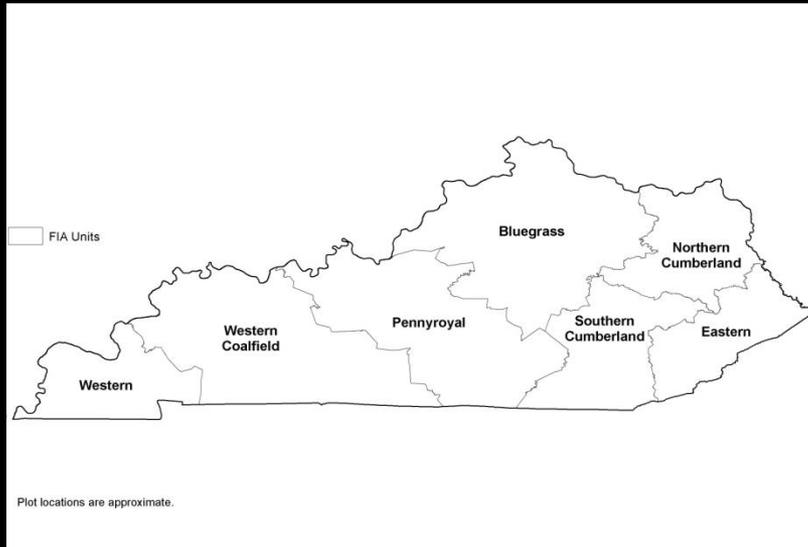
***TENNESSEE-KENTUCKY  
FORESTS AND THE FIA  
PROGRAM***



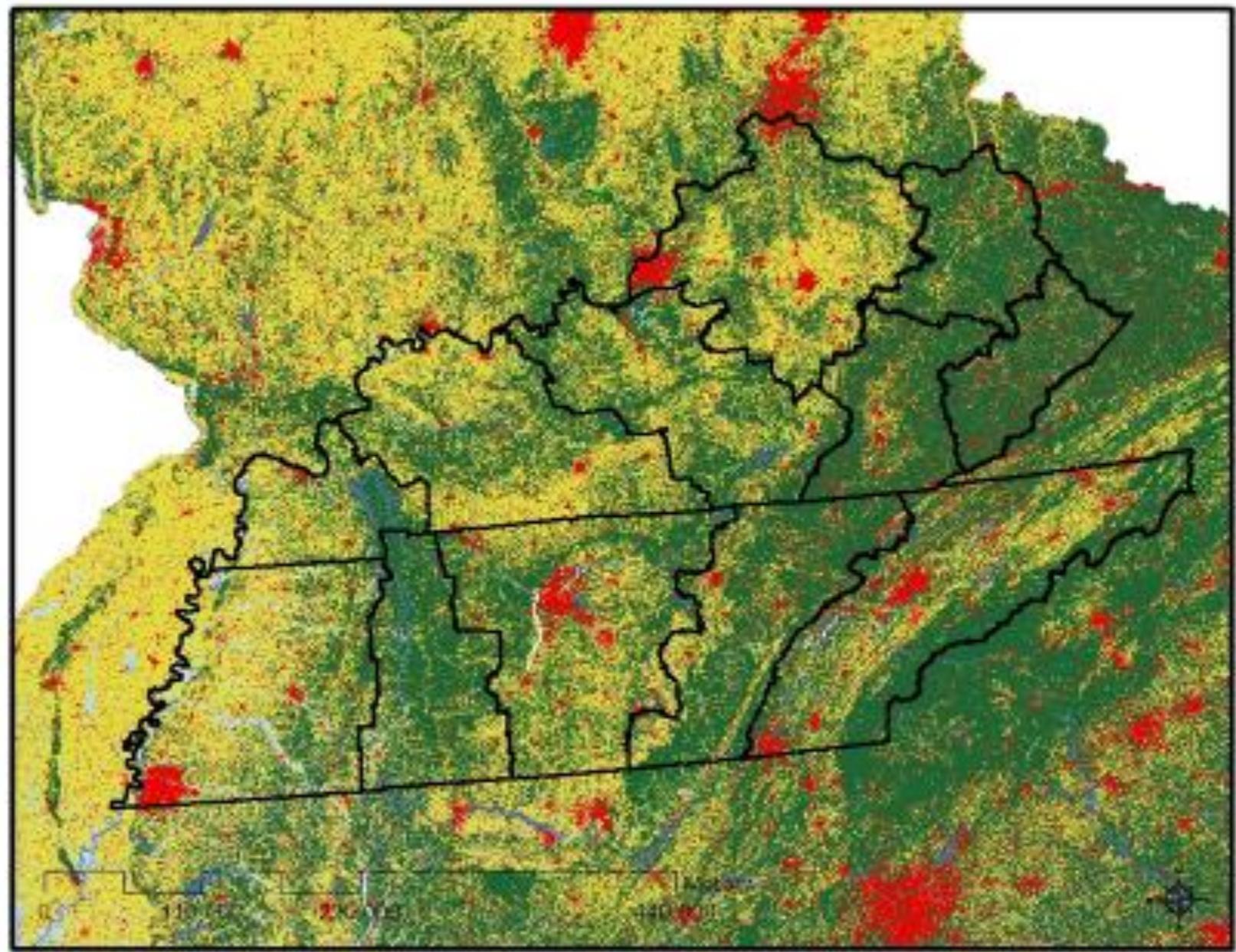
Christ Oswalt (USDA Forest Service)

# *FIA Units*

## Politically Constrained Ecophysiological Representations



2001 NLCD



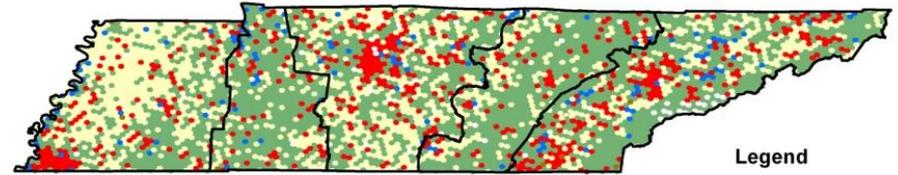
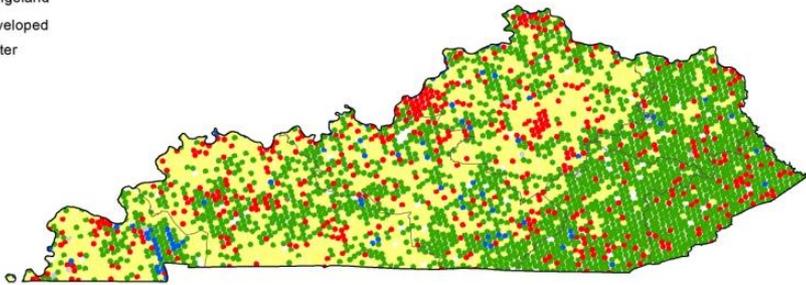
# Land Use

Based solely on FIA – Condition at Plot Center

FIA Units

Land use

- Forest
- Agriculture
- Rangeland
- Developed
- Water



Legend

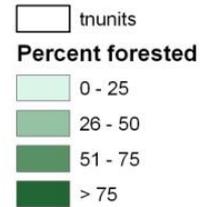
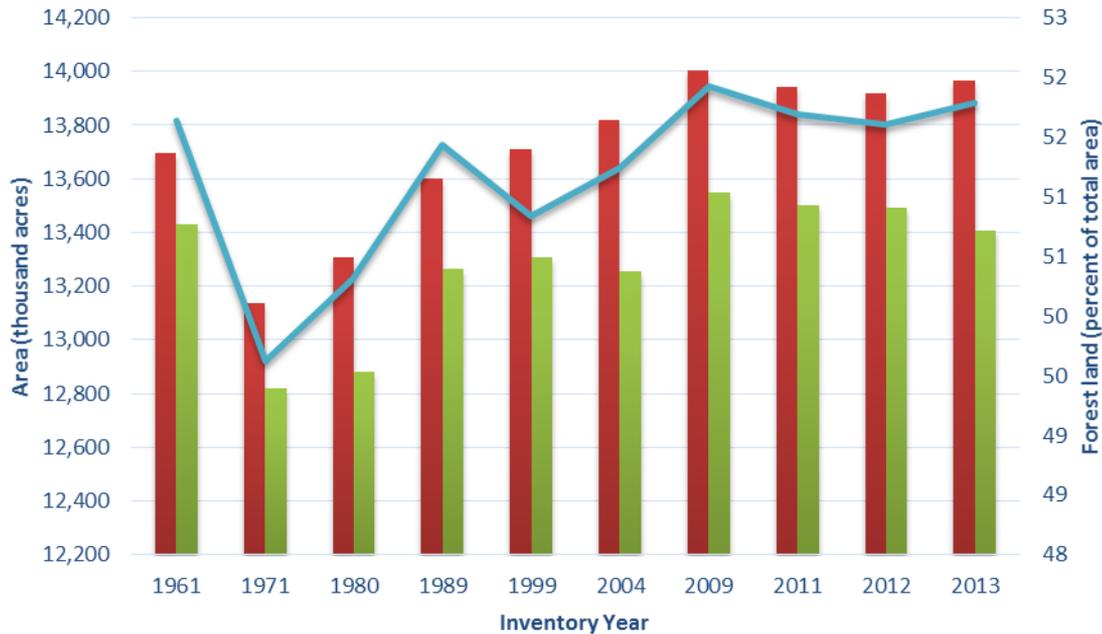
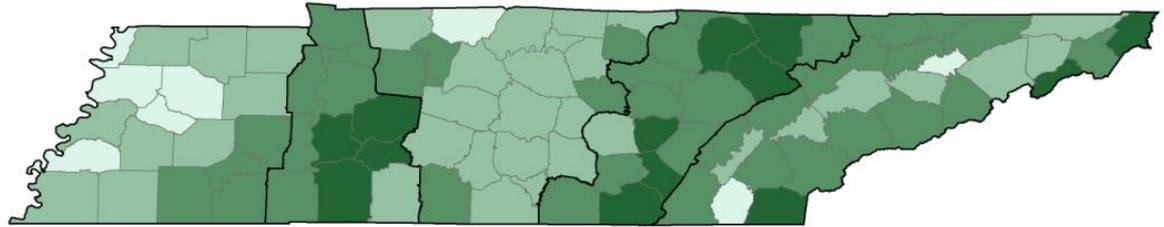
- FIA Units
- Land Use
  - Forest land
  - Agricultural land
  - Developed
  - Other land
  - Water
  - Nonsampled

Projection: GCS North American 1983  
Datum: D North American 1983  
Source: USDA Forest Service  
Geographic base data provided by ESRI  
By: Christopher M. Oswalt  
Disclaimer: Information displayed on the map was derived from multiple sources

Plot locations are approximate.



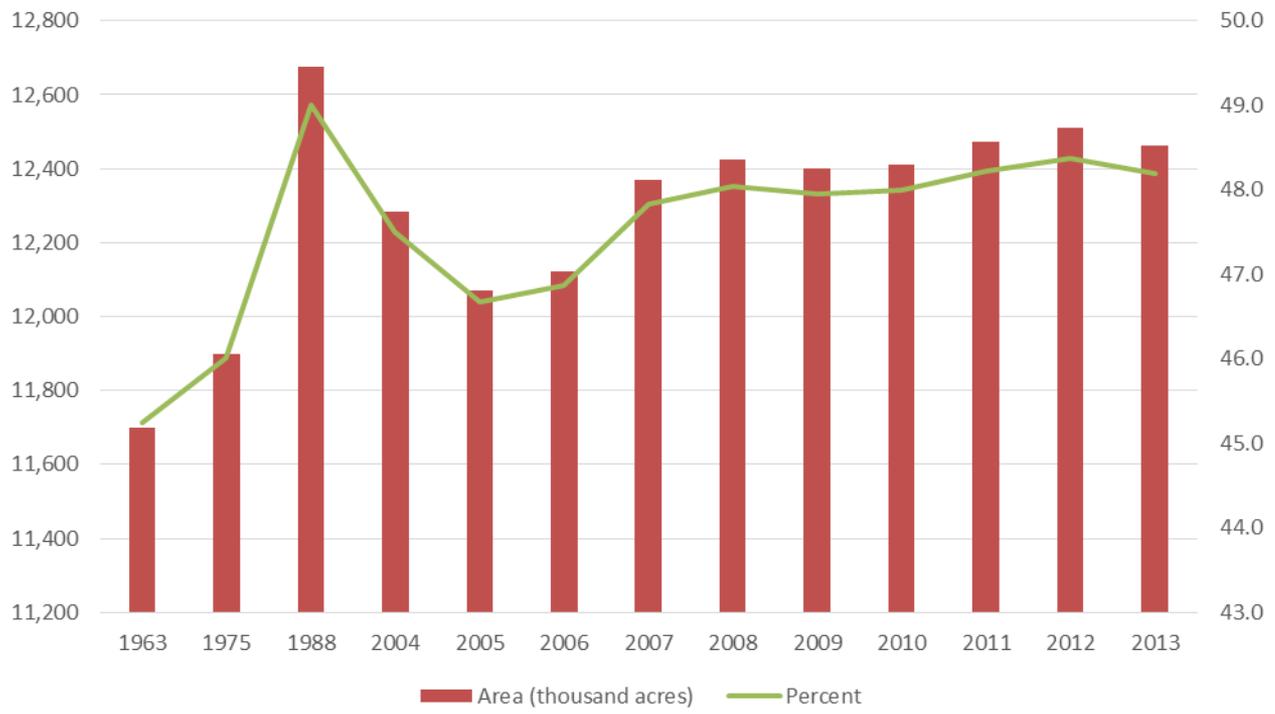
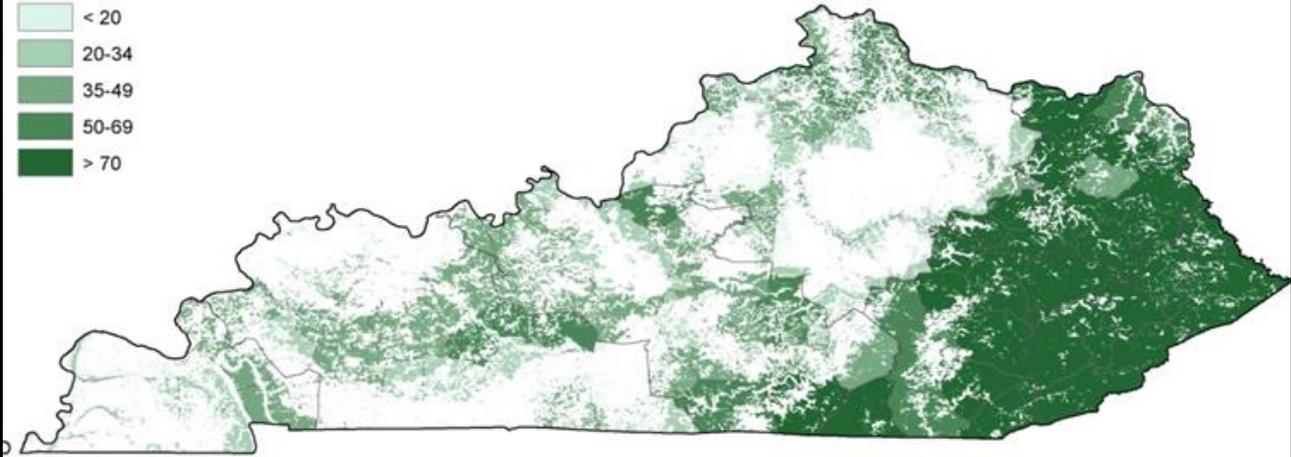
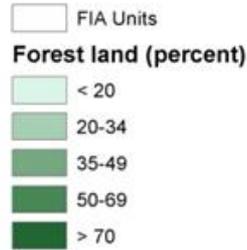
# Forest Extent



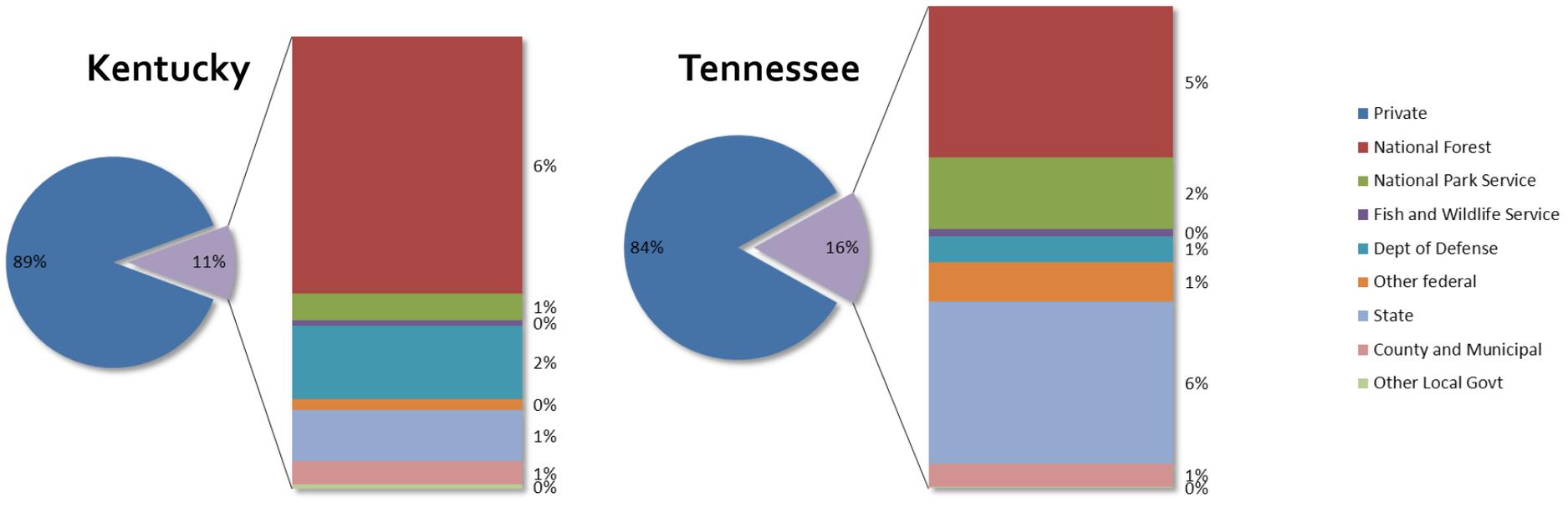
■ Total forest ■ Timberland — Percent forested



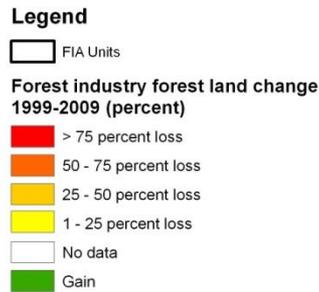
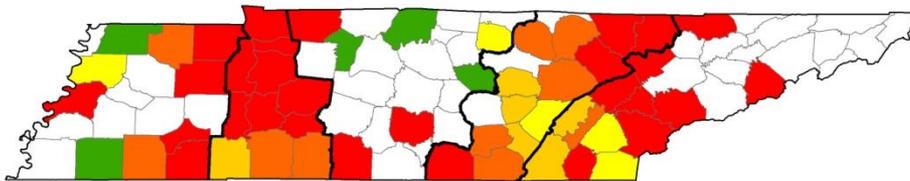
# Forest Extent



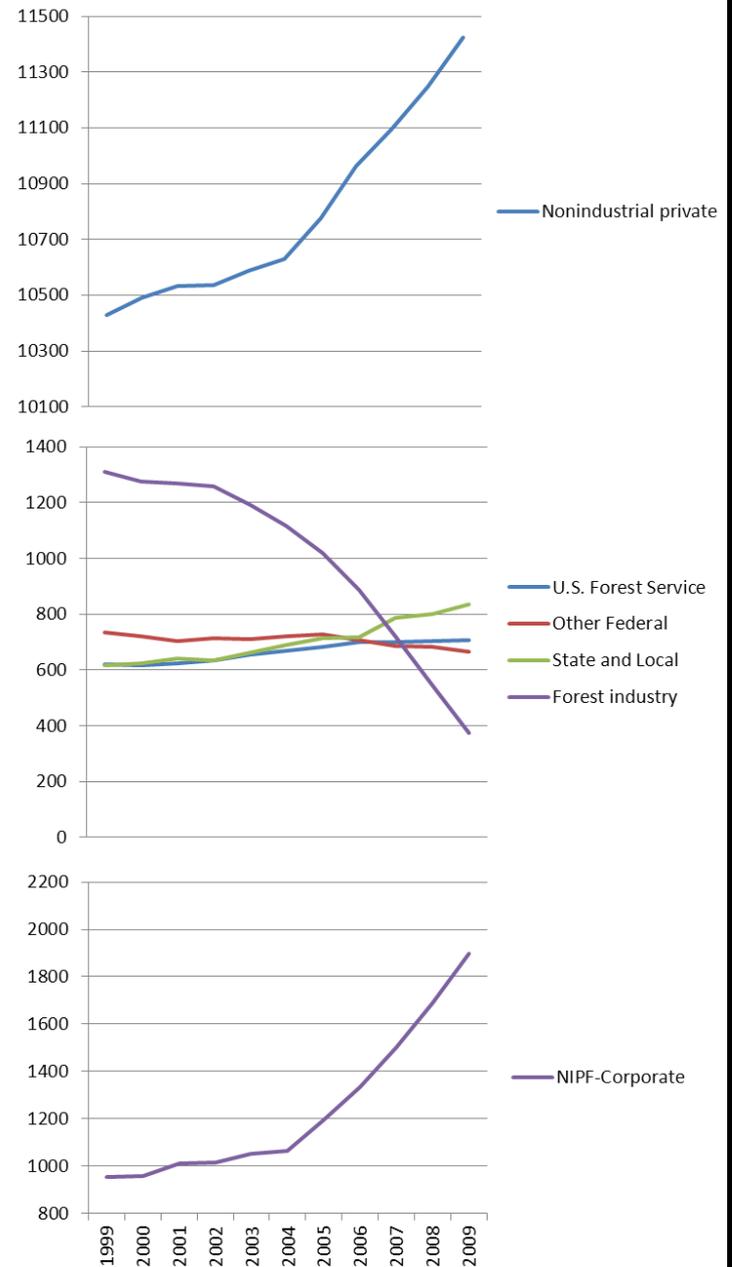
# Forest Ownership



# Forest land Ownership

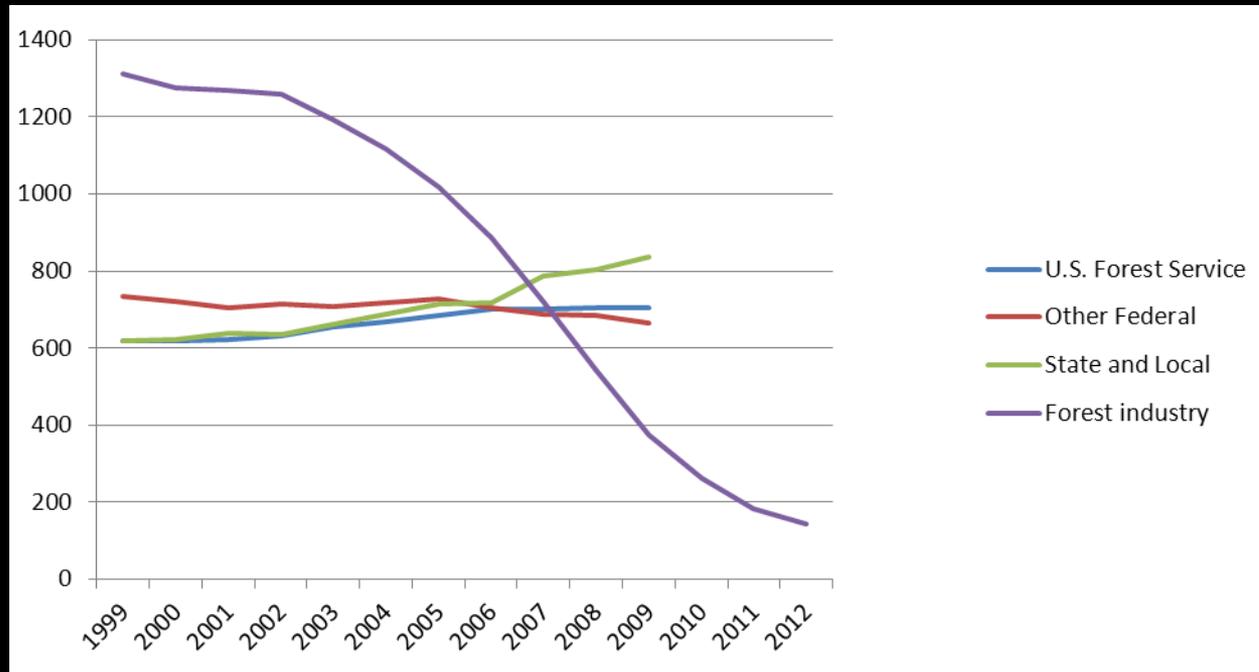


Projection: GCS North American 1983  
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 Source: USDA Forest Service  
 Geographic base data provided by ESRI  
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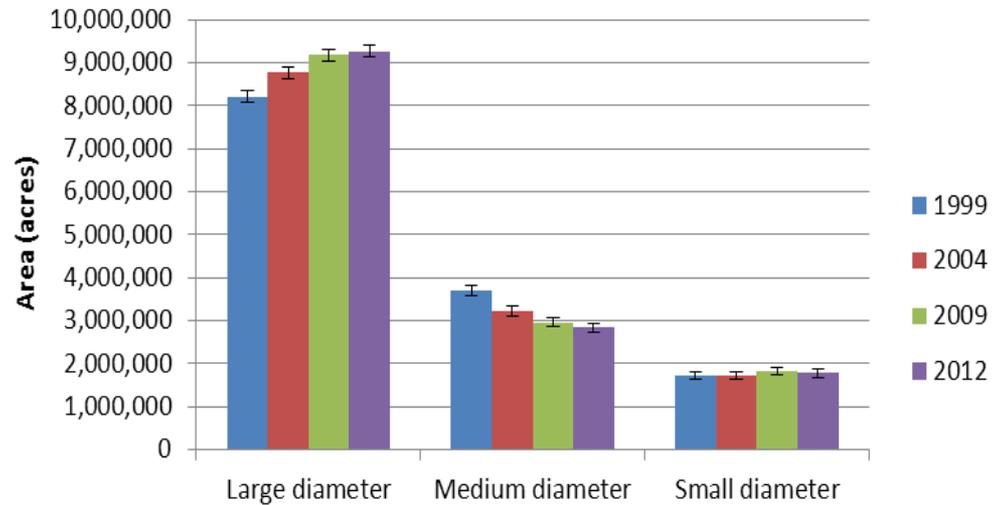
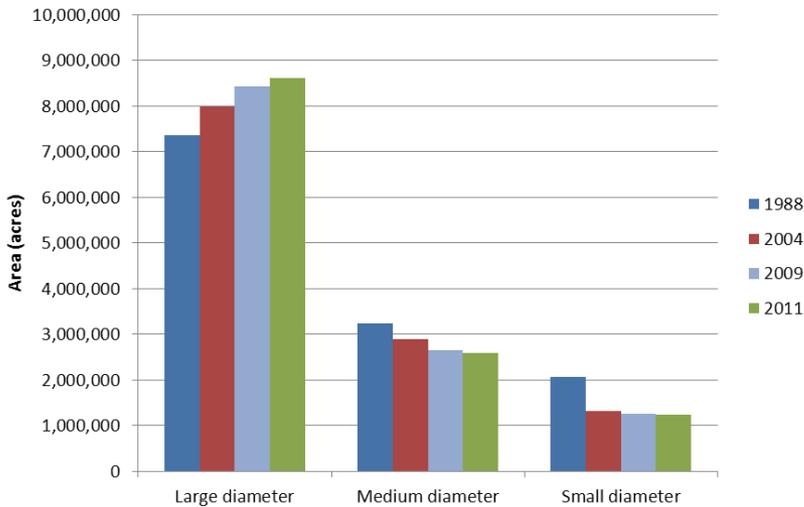


# Forest land Ownership

## Continued Industry Decline (TN)

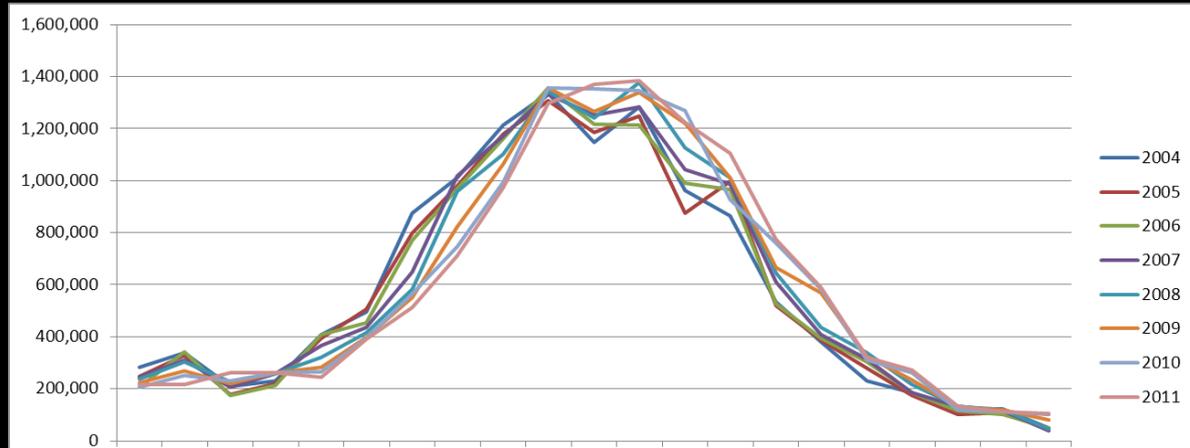


# Forest Development

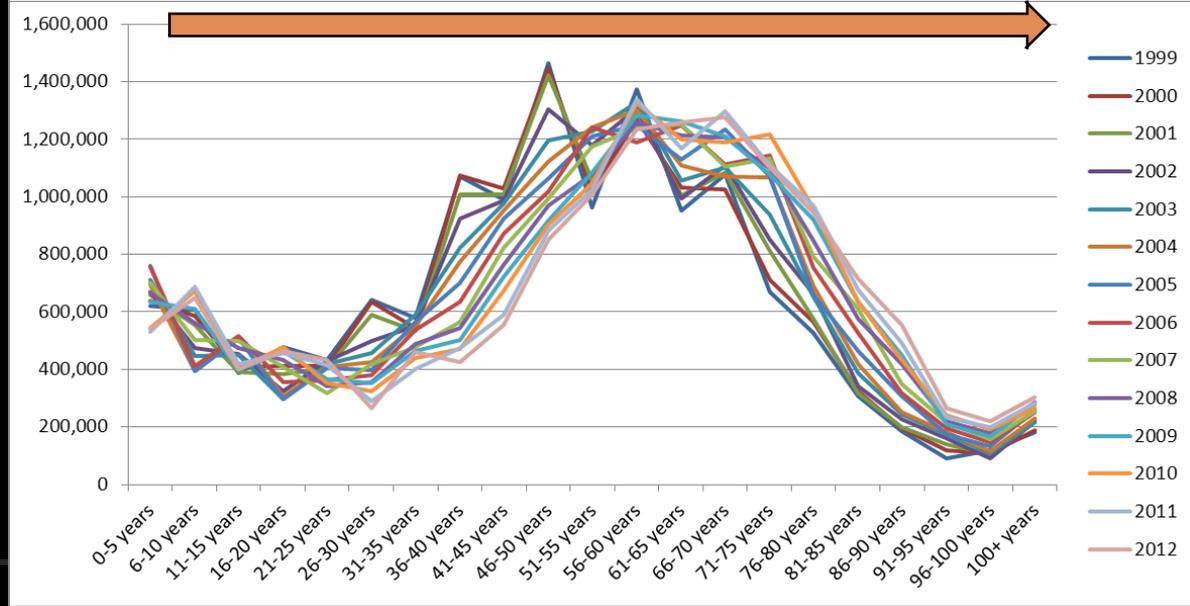


# Forest Age

Kentucky

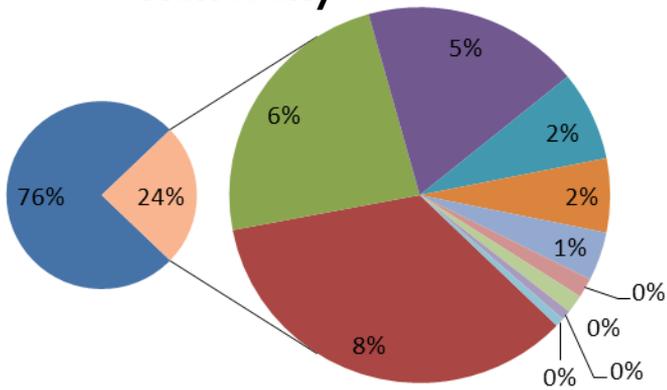


Tennessee

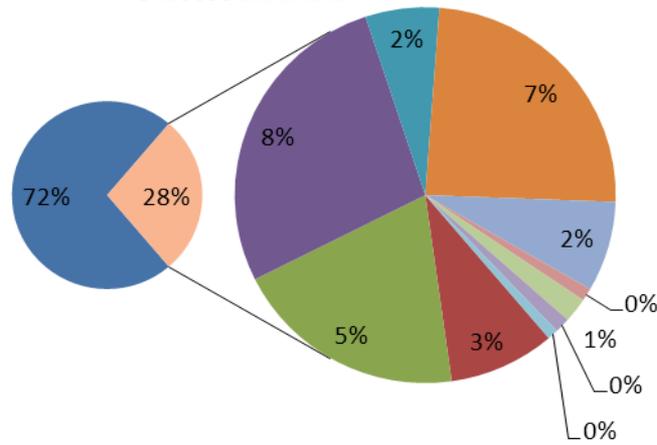


# Forest Types

## Kentucky



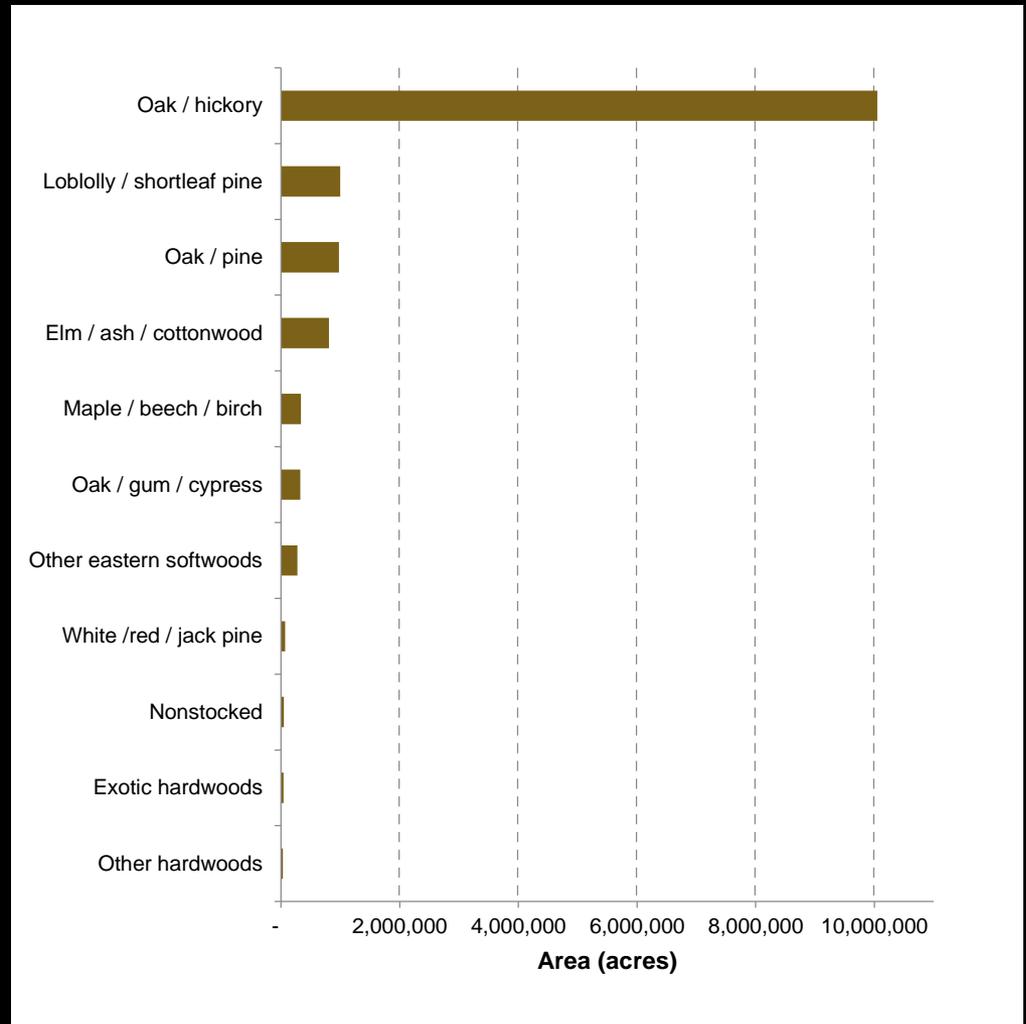
## Tennessee



- Oak / hickory group
- Maple / beech / birch group
- Elm / ash / cottonwood group
- Oak / pine group
- Other eastern softwoods group
- Loblolly / shortleaf pine group
- Oak / gum / cypress group
- Nonstocked
- White / red / jack pine group
- Exotic hardwoods group
- Other hardwoods group



# Forest Types

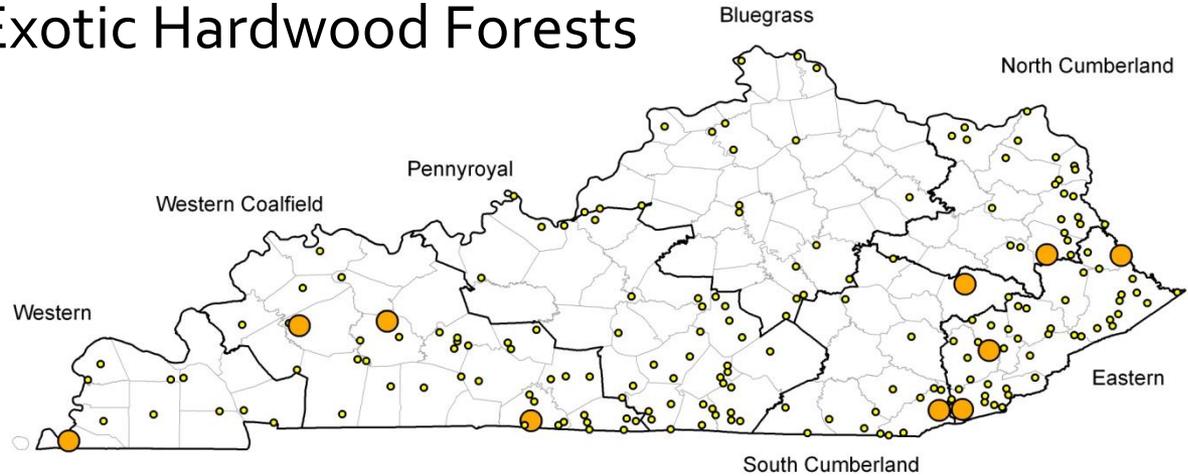


# Forest Changes

Tree of Heaven  
Paulownia  
Mimosa

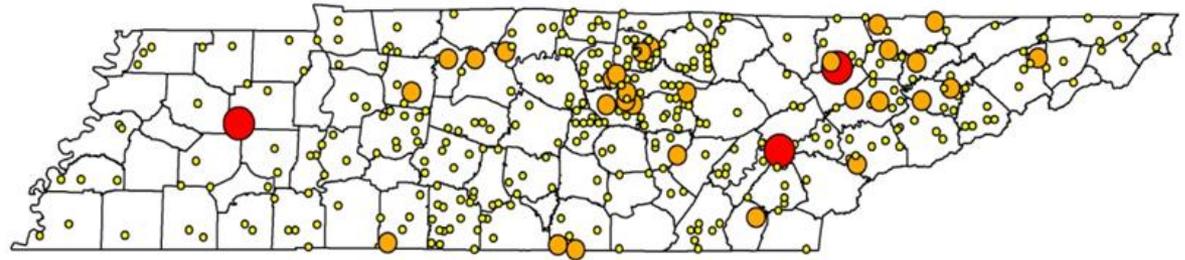
Tree of Heaven  
Mimosa  
Paulownia

## Exotic Hardwood Forests



**Invasive trees**  
count of species

- 1
- 2

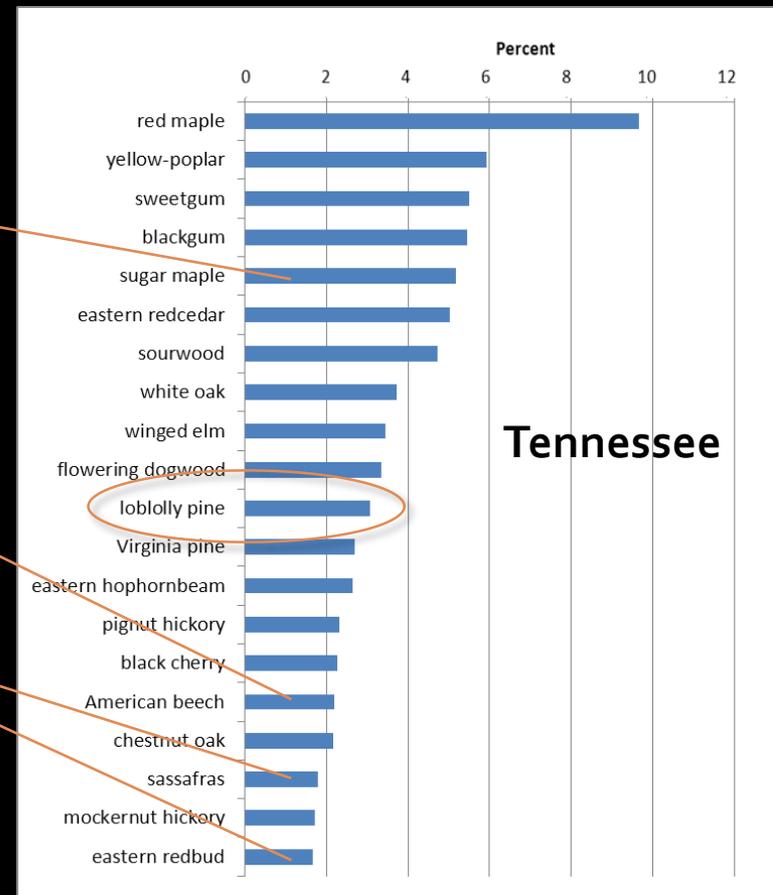
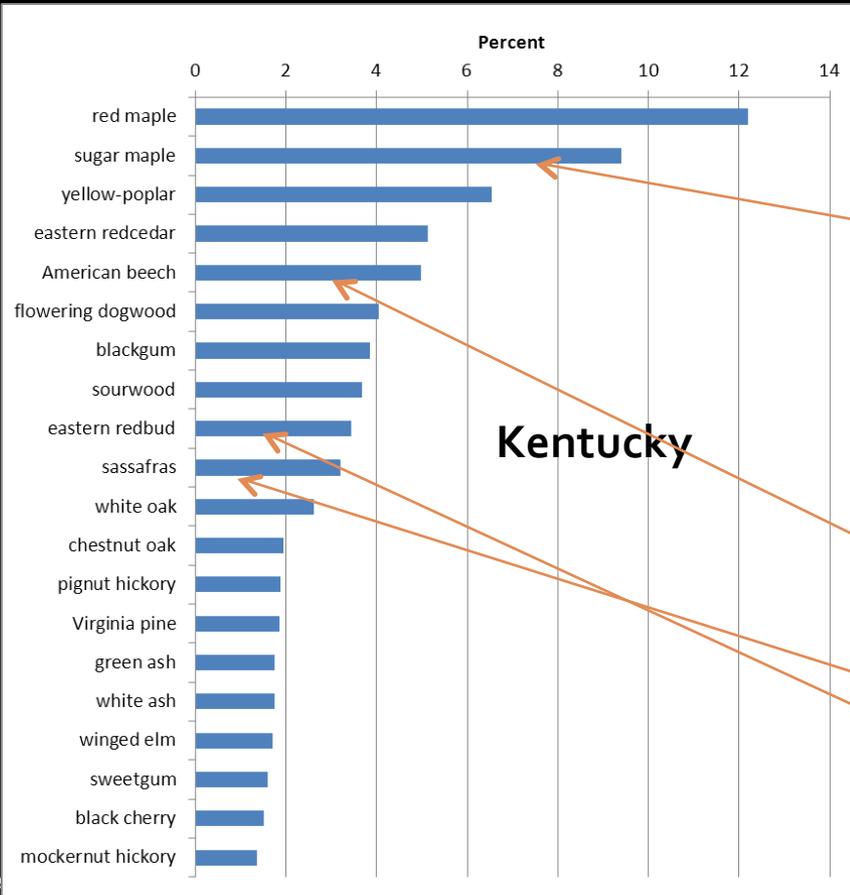


**Invasive Trees**  
Count of species

- 1
- 2
- 3

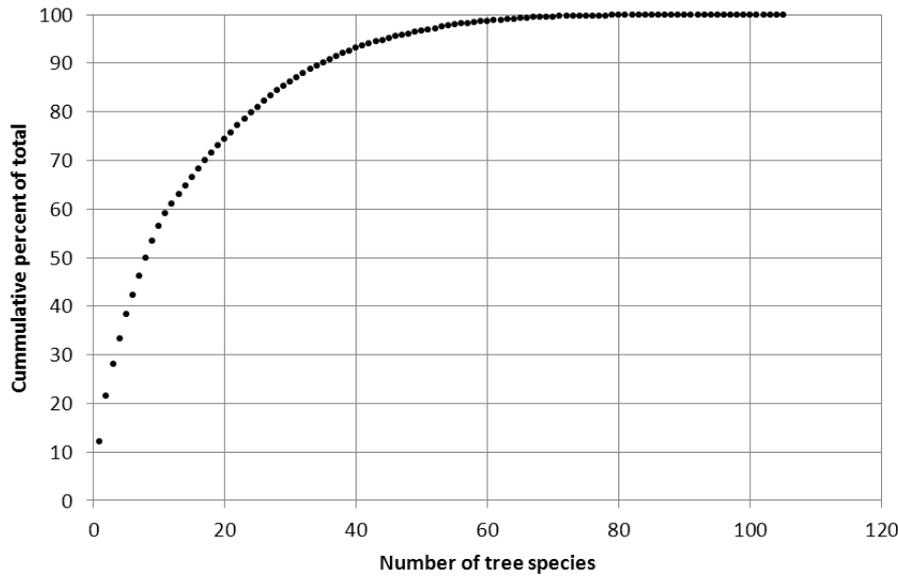


# Tree Species - Populations

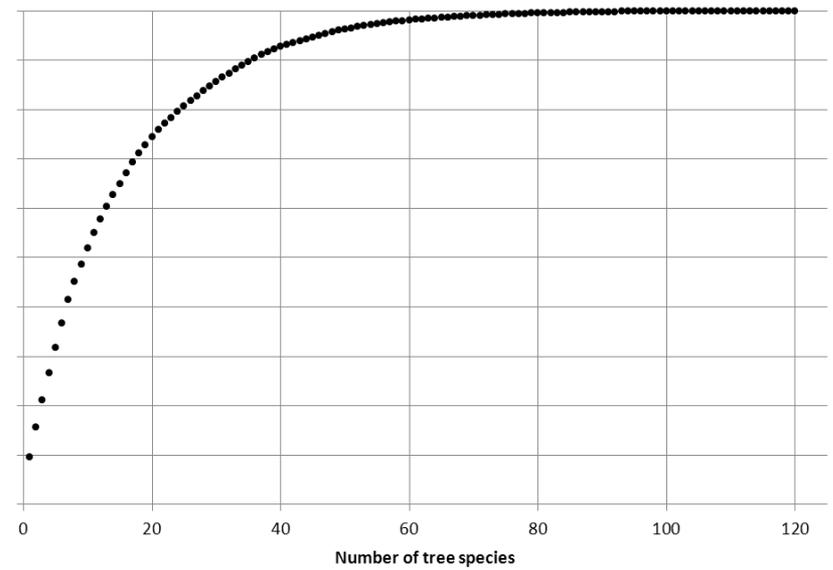


# Tree Species

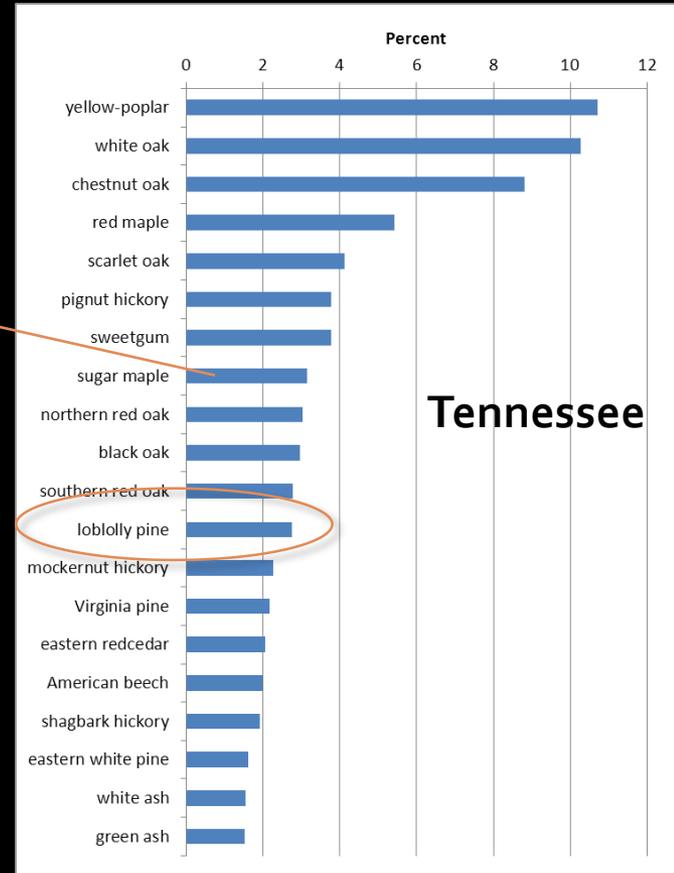
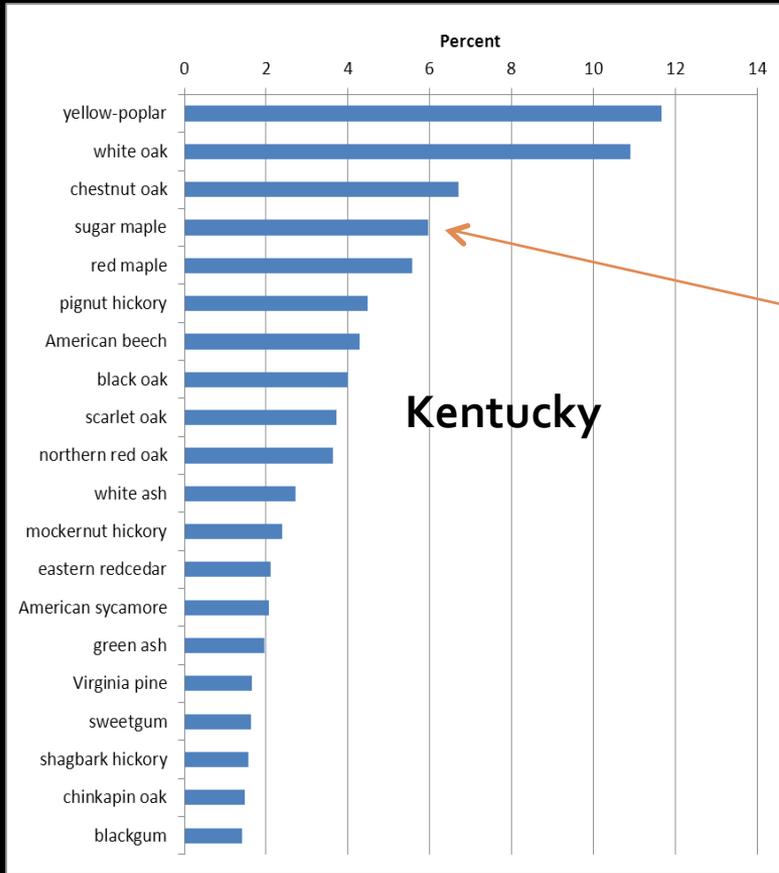
## Kentucky



## Tennessee



# Tree Species - Volume



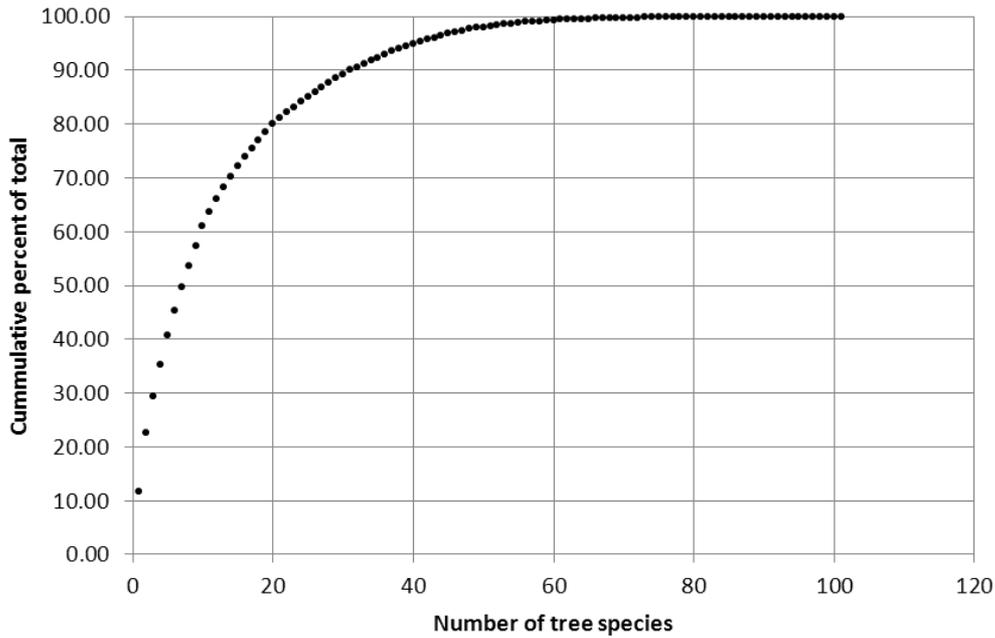
**Kentucky**

**Tennessee**

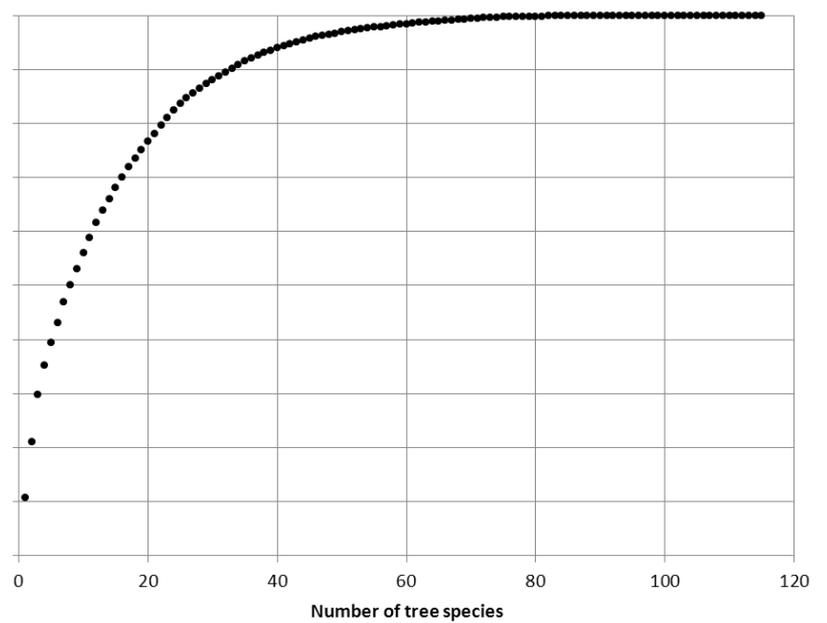


# Tree Species - Volume

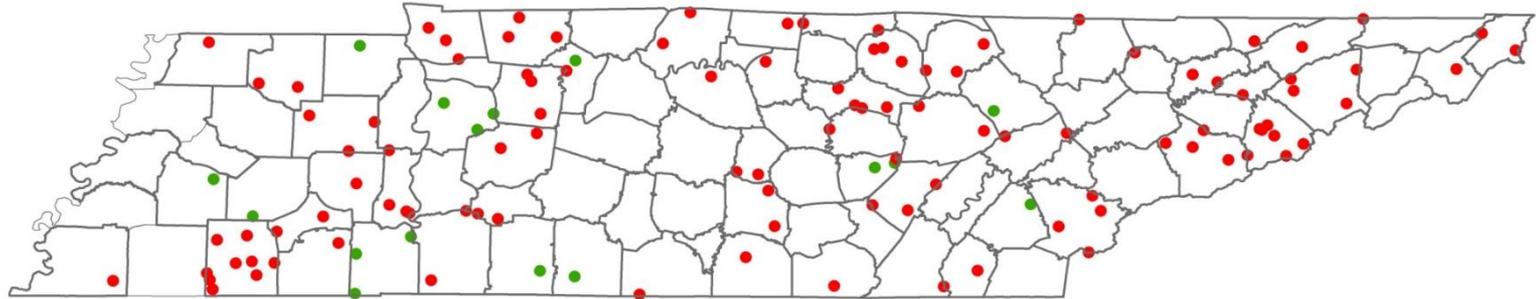
## Kentucky



## Tennessee



# Mill Loss



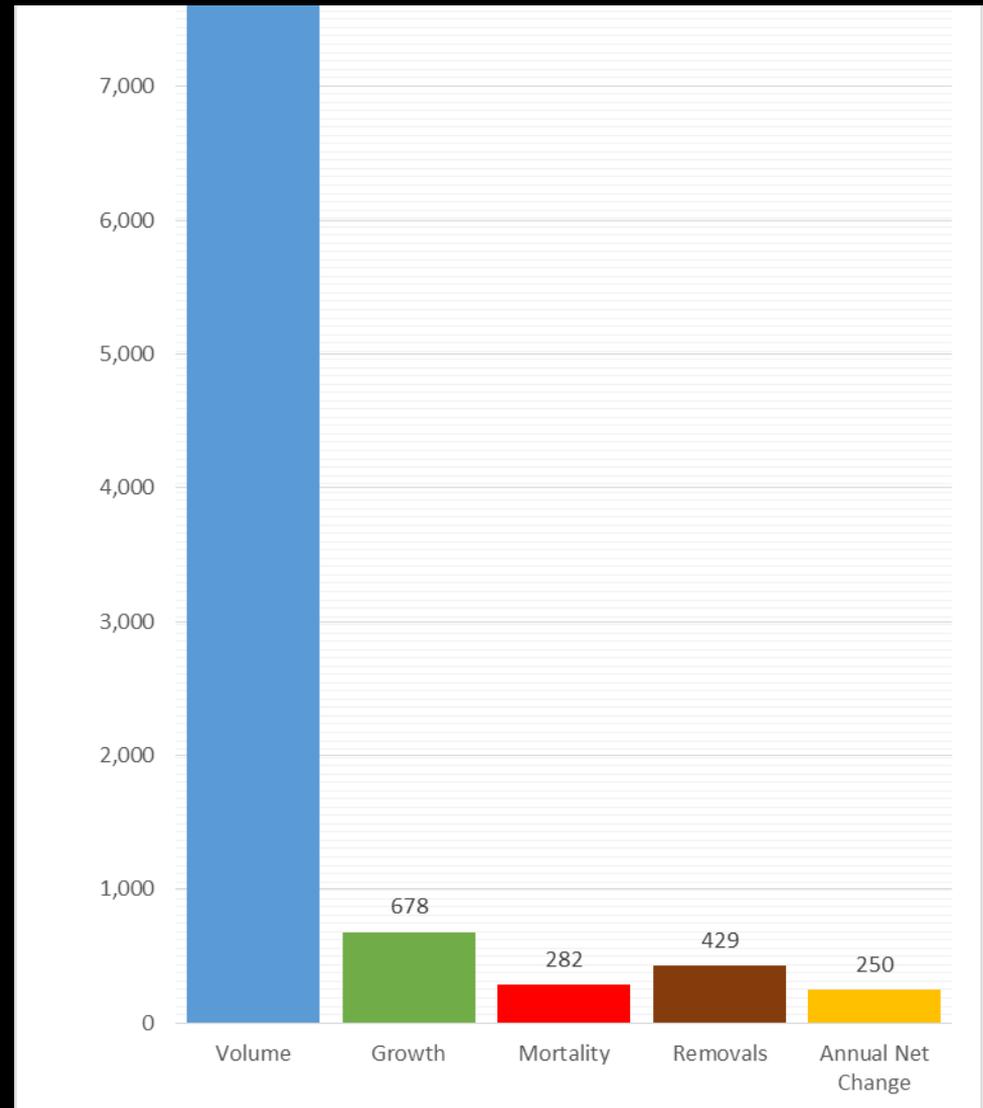
- Mill Loss
- Mill Gain

Projection: GCS North American 1983  
Datum: D North American 1983  
Source: USDA Forest Service  
Geographic base data provided by ESRI  
By: Christopher M. Oswalt  
Disclaimer: Information displayed on the map  
was derived from multiple sources

Dots have been randomly located within a given county. Dots do not represent actual mill location.



# *Growth, Removals, & Mortality*



# Threats

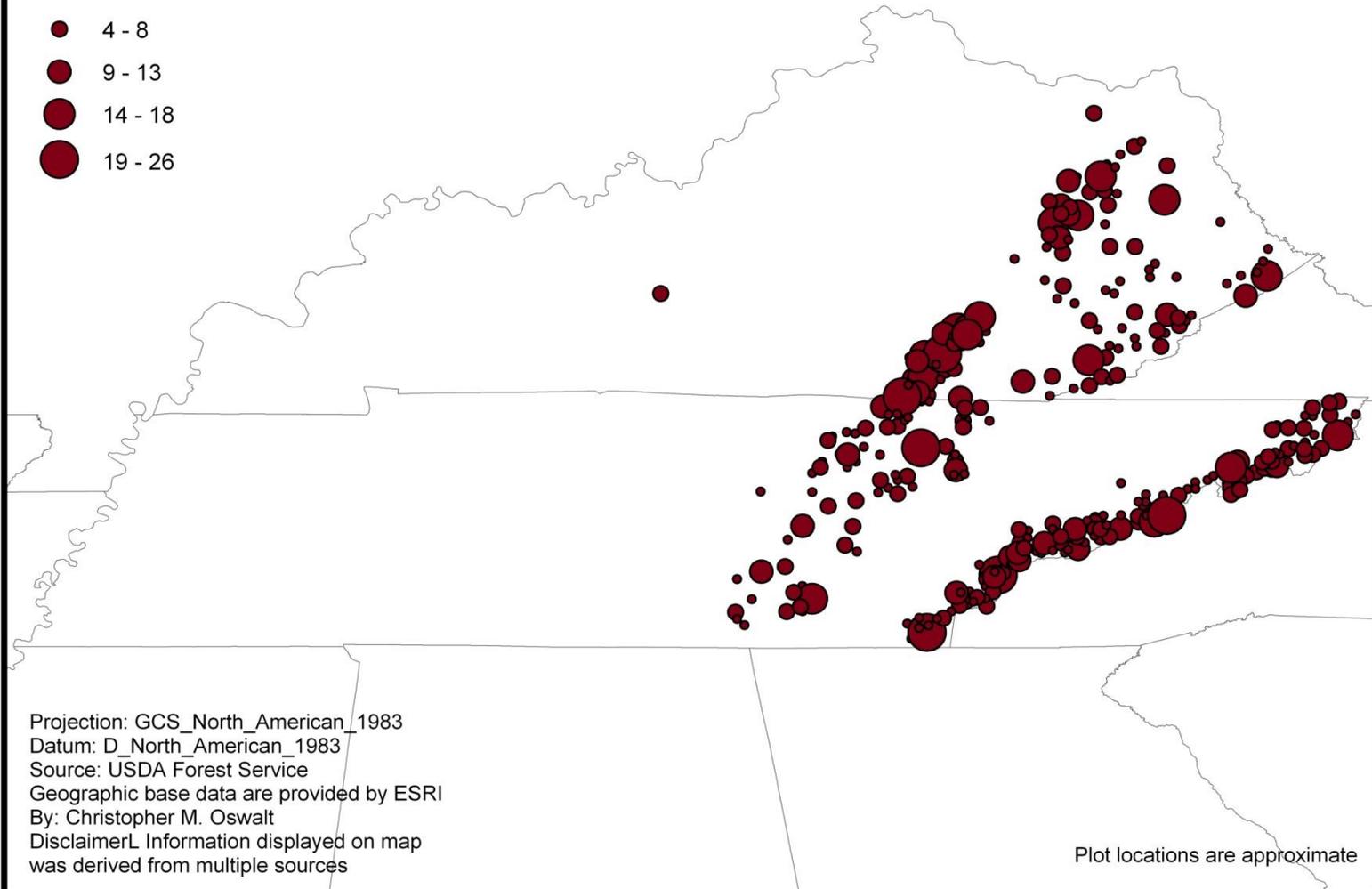


## Legend

 States

### Hemlock spp. (no. live trees sampled)

-  1 - 3
-  4 - 8
-  9 - 13
-  14 - 18
-  19 - 26

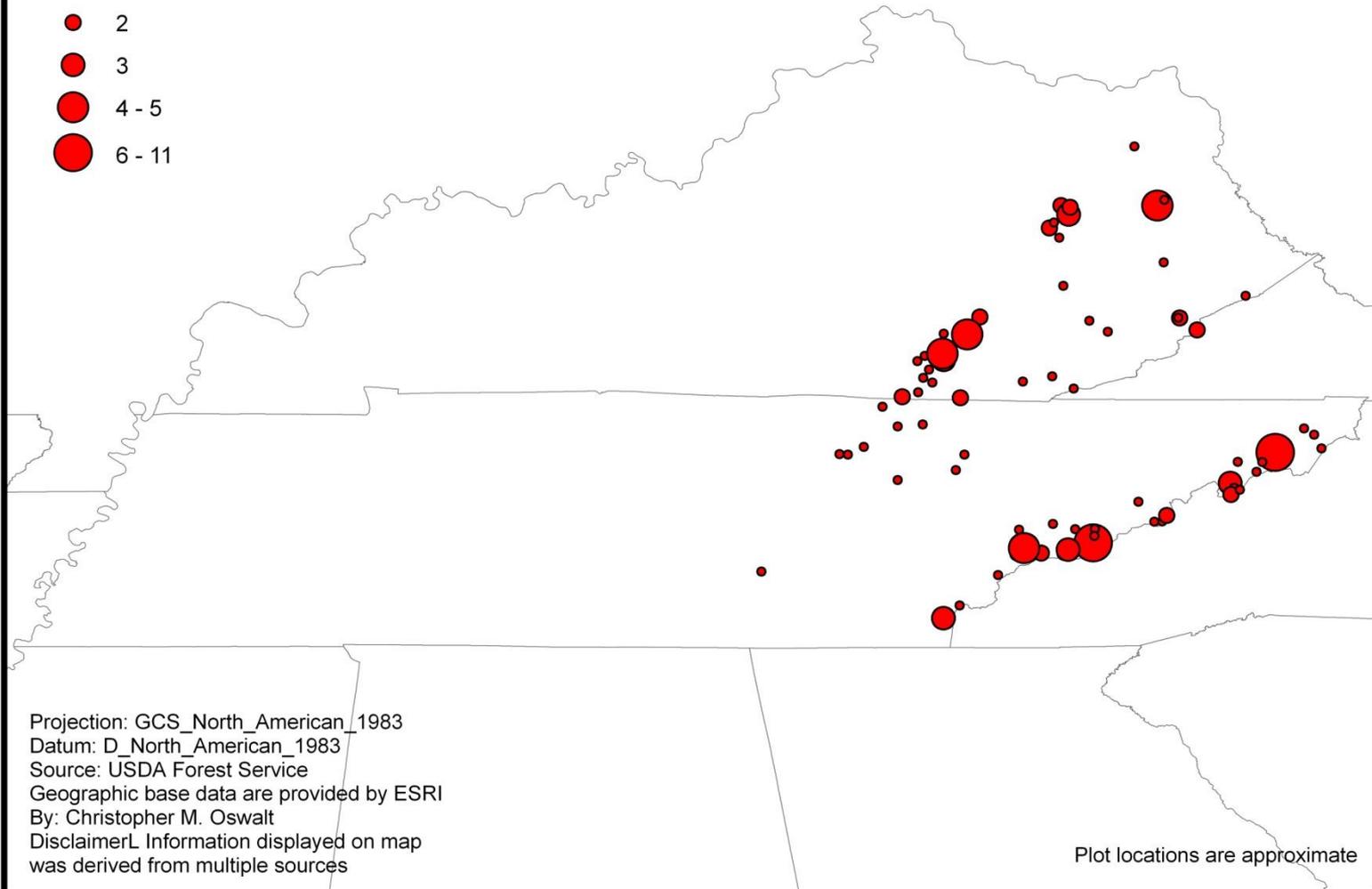


## Legend

 States

### Hemlock spp. (no. dead trees sampled)

-  1
-  2
-  3
-  4 - 5
-  6 - 11

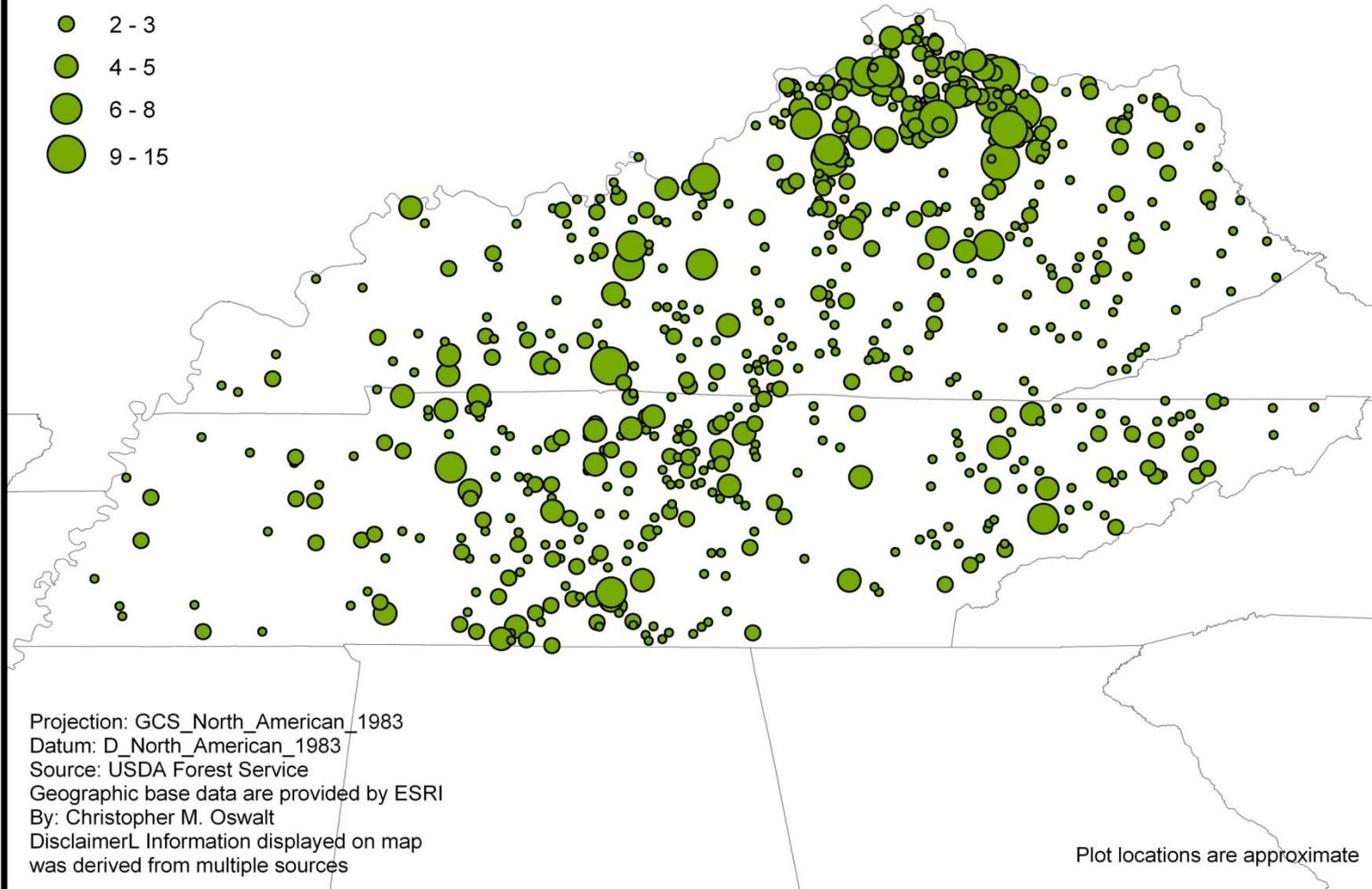


## Legend

 States

### Walnut spp. (no. live trees sampled)

-  1
-  2 - 3
-  4 - 5
-  6 - 8
-  9 - 15

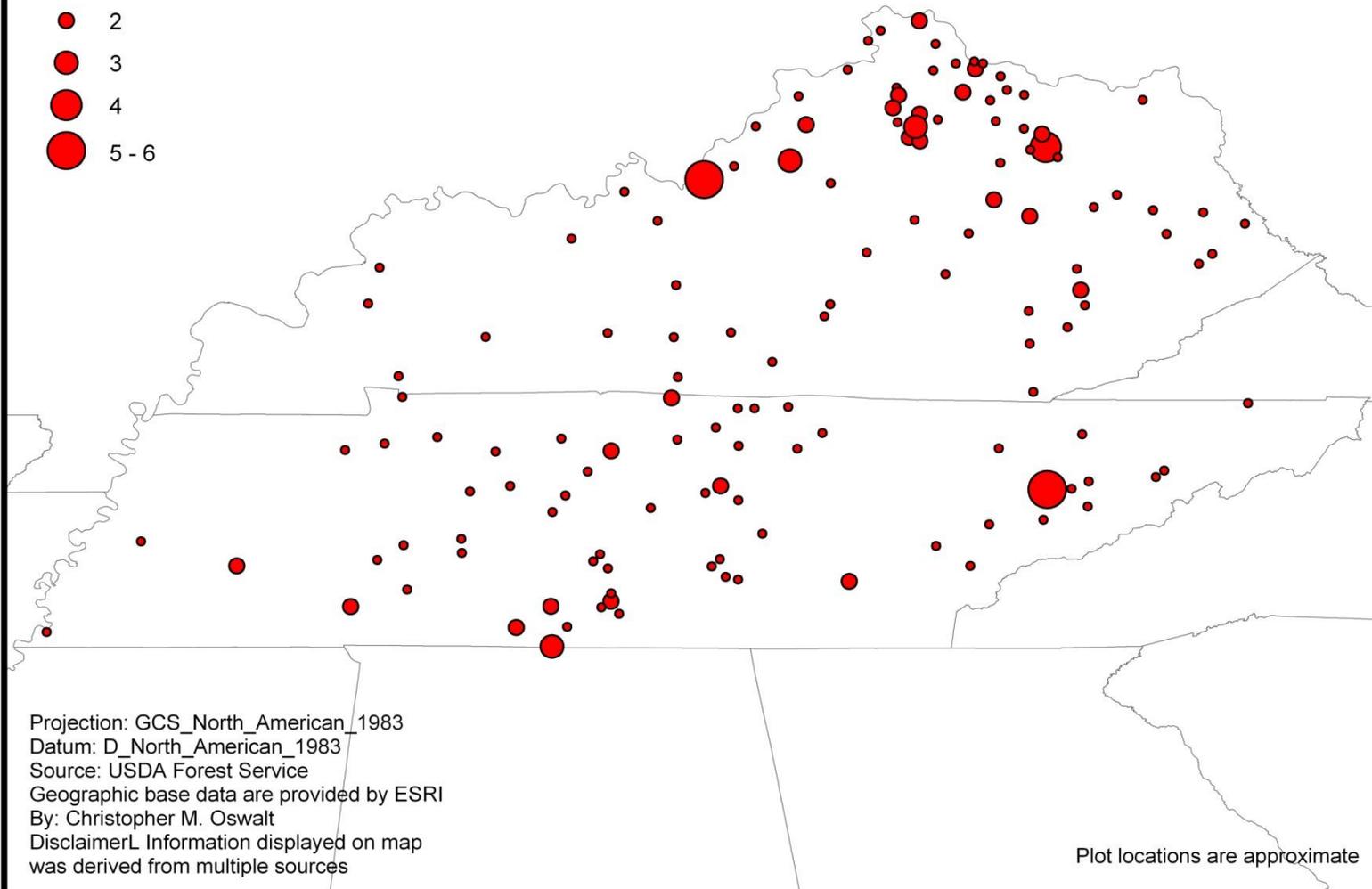


## Legend

 States

### Walnut spp. (no. dead trees sampled)

-  1
-  2
-  3
-  4
-  5 - 6

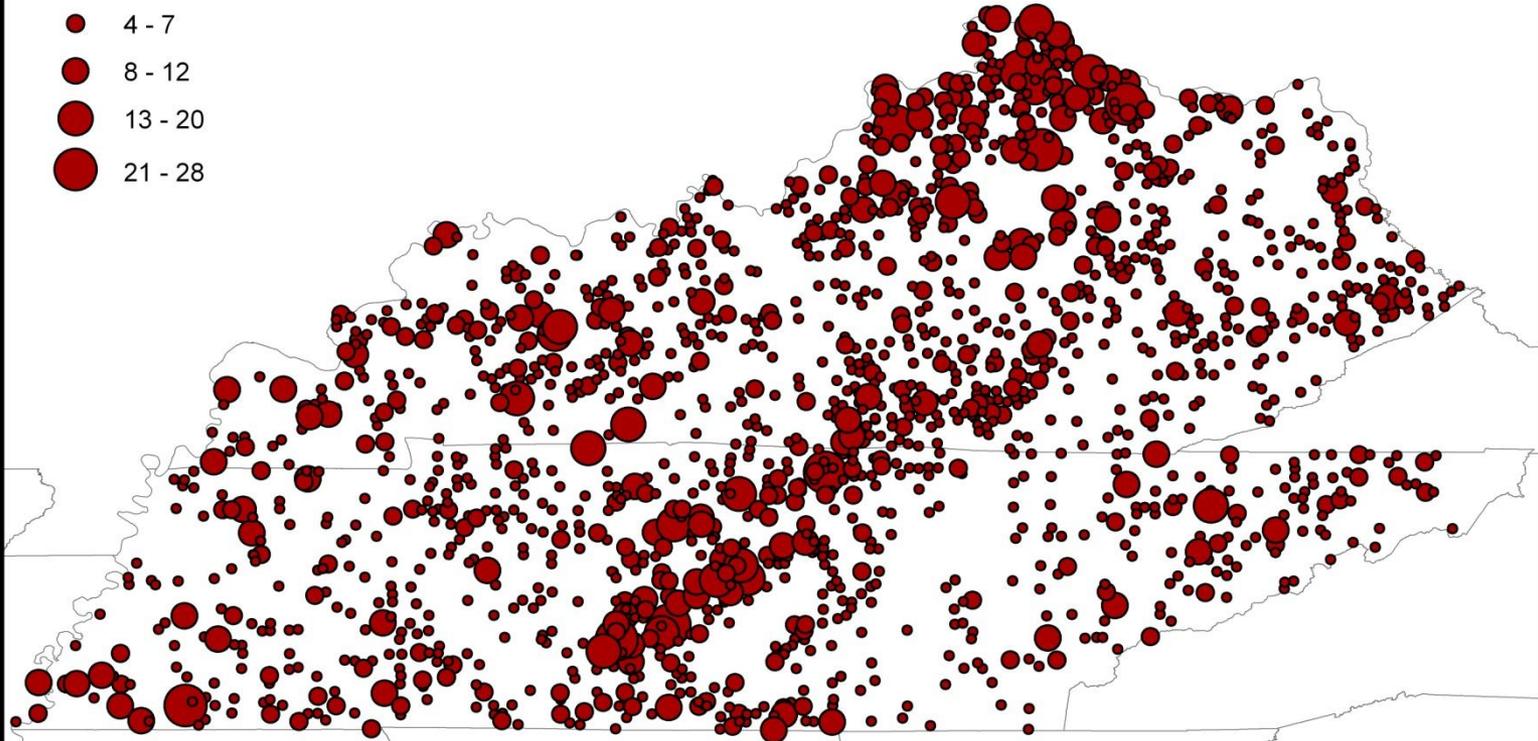


## Legend

 States

### Ash spp. (no. live trees sampled)

-  1 - 3
-  4 - 7
-  8 - 12
-  13 - 20
-  21 - 28



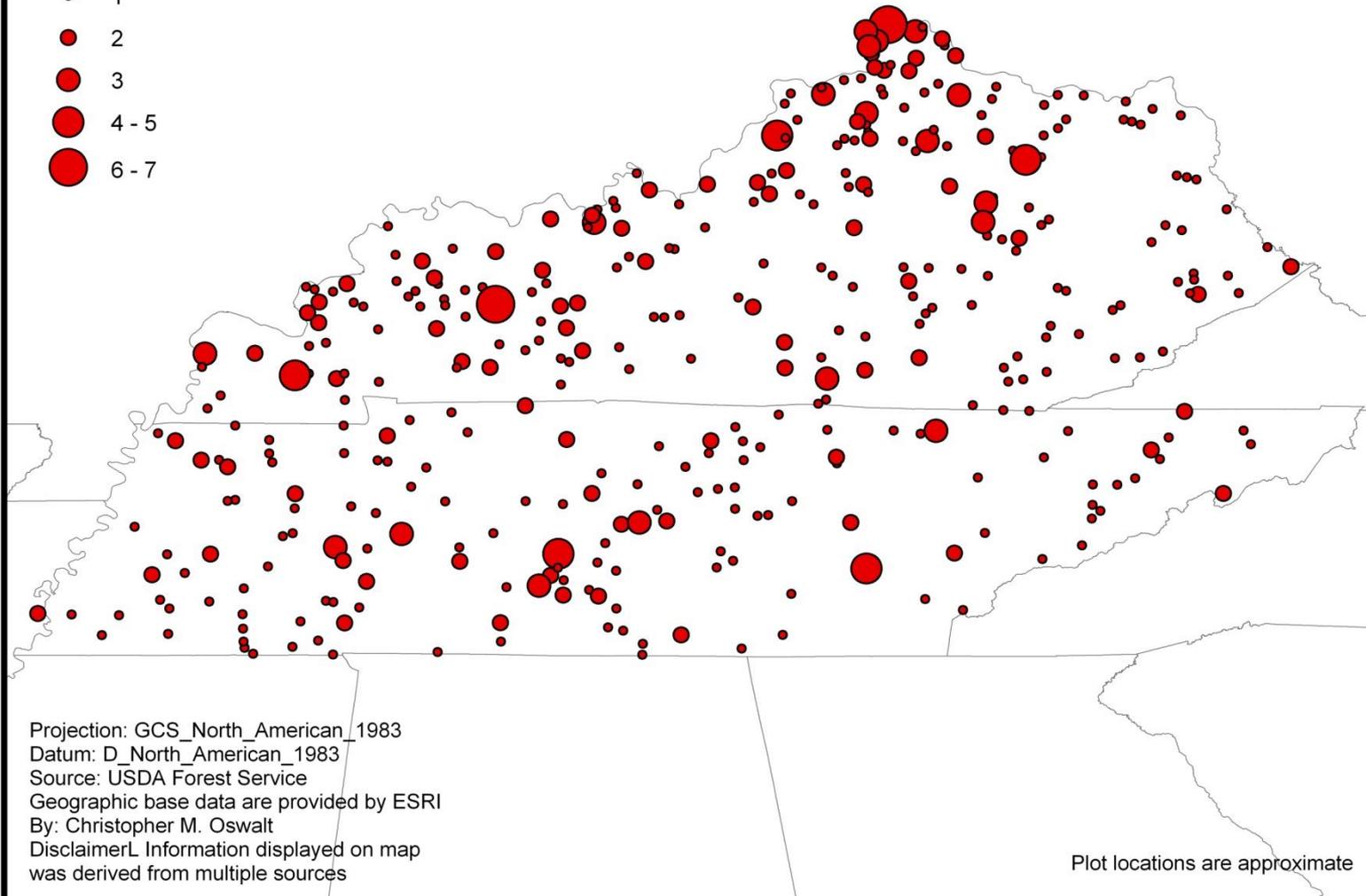
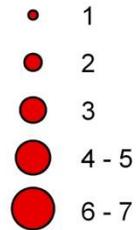
Projection: GCS\_North\_American\_1983  
Datum: D\_North\_American\_1983  
Source: USDA Forest Service  
Geographic base data are provided by ESRI  
By: Christopher M. Oswalt  
Disclaimer: Information displayed on map  
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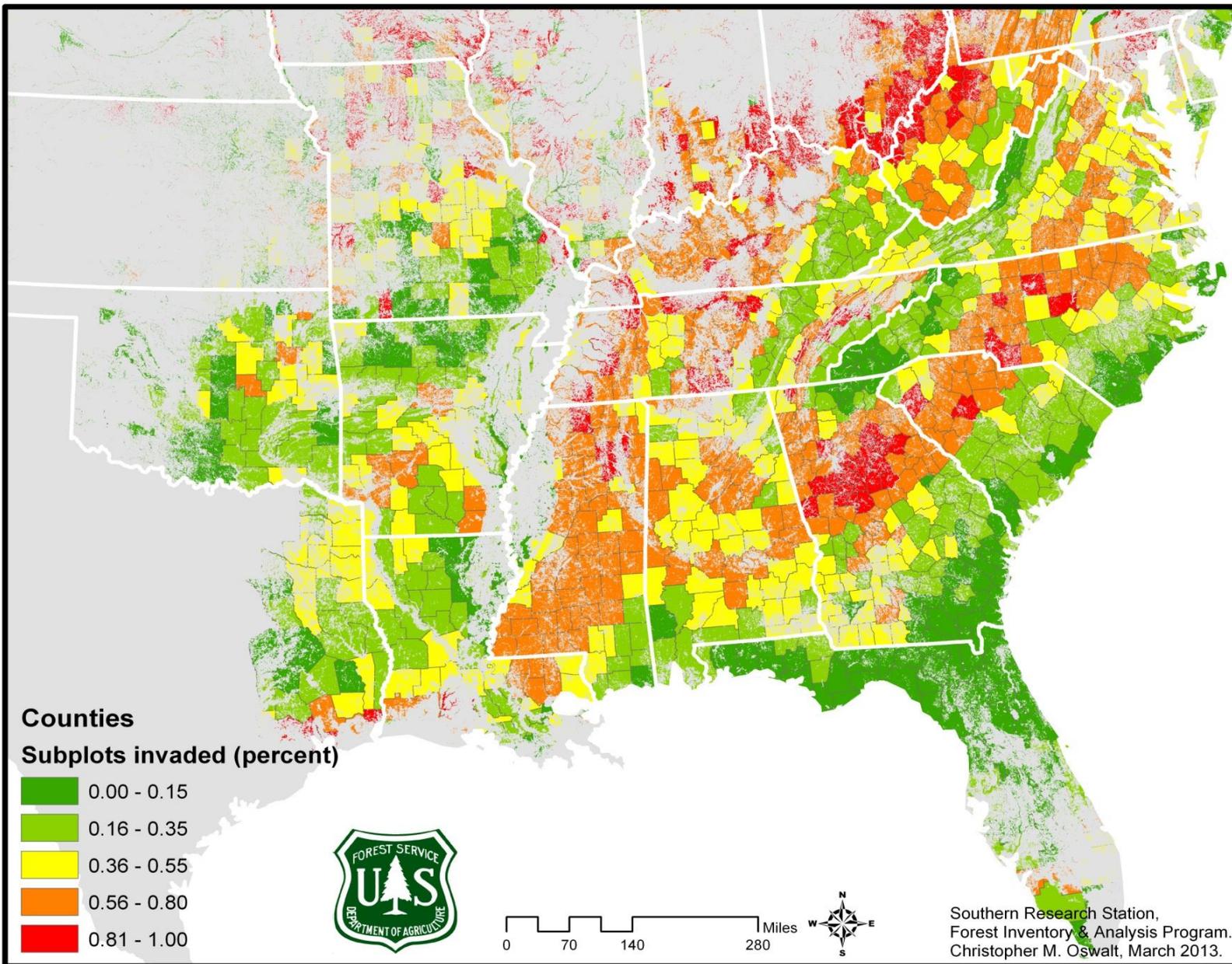
Plot locations are approximate

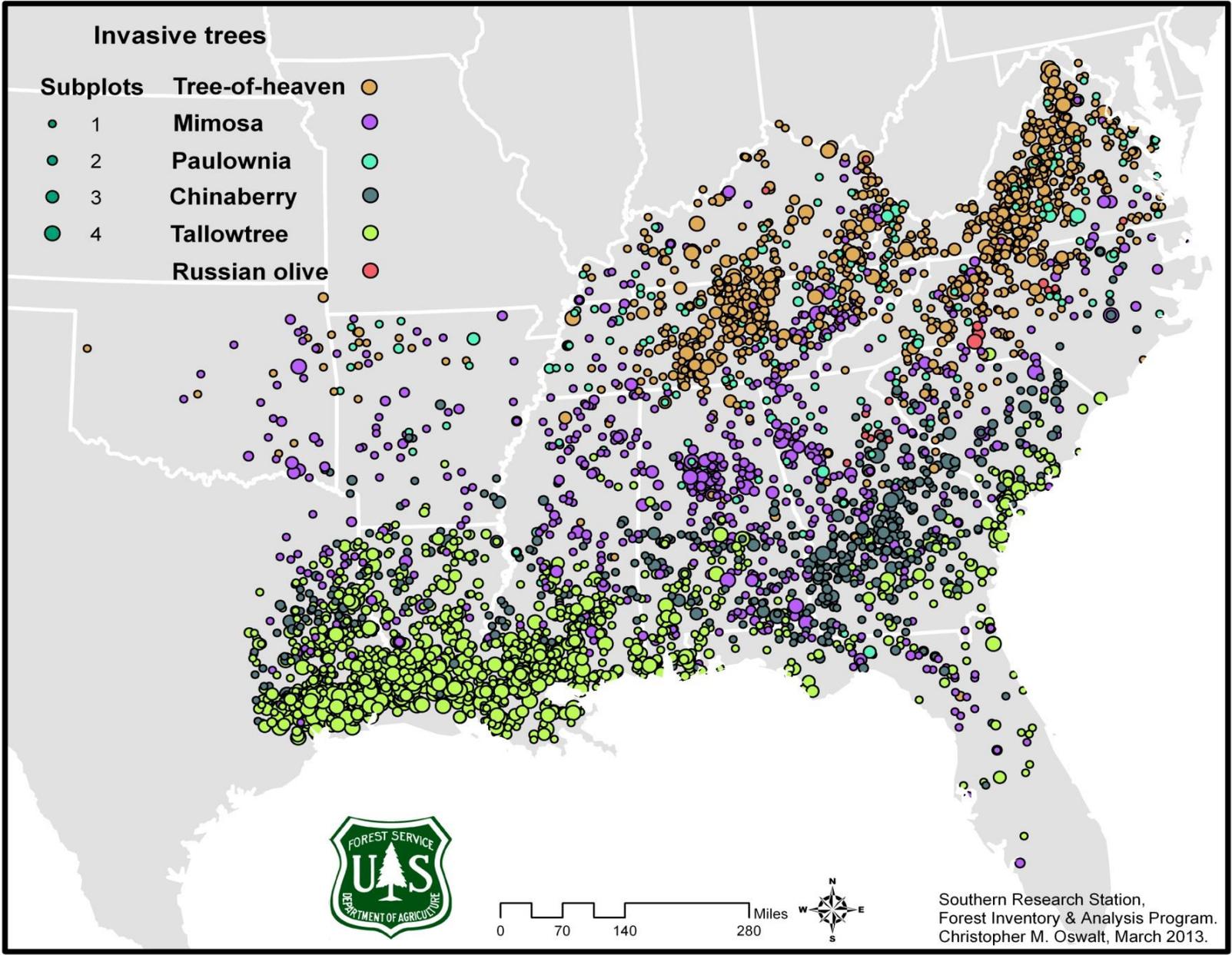
## Legend

 States

### Ash spp. (no. dead trees sampled)







# *Summary*

- Steady forest land area
- Forests largely privately owned
  - Forest industry declines – shifting to corporate
  - Decline appears to be bottoming out



# *Summary*

- Forest still dominated by hardwood forest types
  - Conifer species have declined over the past decade
  - Exotic hardwood forest increasing
- Growth declining
- Mortality increasing
- Removals may be rebounding

