

Forest Research and Extension at the UA Livestock and Forestry Research Station at Batesville

Forestry in North Arkansas

Resource:

- Natural upland hardwoods
 - o Oak species important
- Natural shortleaf pine
- Planted loblolly pine

Challenges:

- Market conditions
- Invasive pests
- Endangered species
- Soil and water conservation
- Land use changes

Forests on the Station

Our goal is to provide research based information to family forest landowners, professional foresters, forest industry and others that will help them reach their objectives, to meet challenges, maximize production and maintain healthy forest ecosystems in north Arkansas.

Research Projects

Project Themes:

- Oak forest restoration
 - o Natural stands
 - o Planted stands
- Shortleaf pine restoration
- Pine plantation establishment and management
- Prescribed fire
- Management of existing forests
 - o Thinning
 - o Timber stand improvement (TSI)

Forest Conservation

Practices:

- Arkansas voluntary best management practices (BMPs)
 - o Water quality primary objective
 - o Protocol described in the Arkansas BMP guidelines book (AFC)
- Invasive species control
 - o Feral hogs
- Pollinator habitat

Reaching Clientele

Clientele:

- Family forest landowners (FFLs)
- Professional foresters and land managers
- Forest industry
- Researchers
- General public

Methods:

- On-site demonstration/field tours
- Workshops
- Professional trainings
- Publications
- Conference presentations
- Research journal publications
- Web-based information

Program Impact:

Our Station projects and outreach efforts have influenced all target clientele groups at a state, regional, and national level. We have created resources that are a model for upland forest management systems in the southeastern US. These projects have increased the forest management knowledge base for family forest landowner's and forestry professionals, resulting in increased timber revenue, better management decisions, and an overall healthier forest ecosystem in north Arkansas and other upland regions of the country.

Forestry Tour Contact Information:

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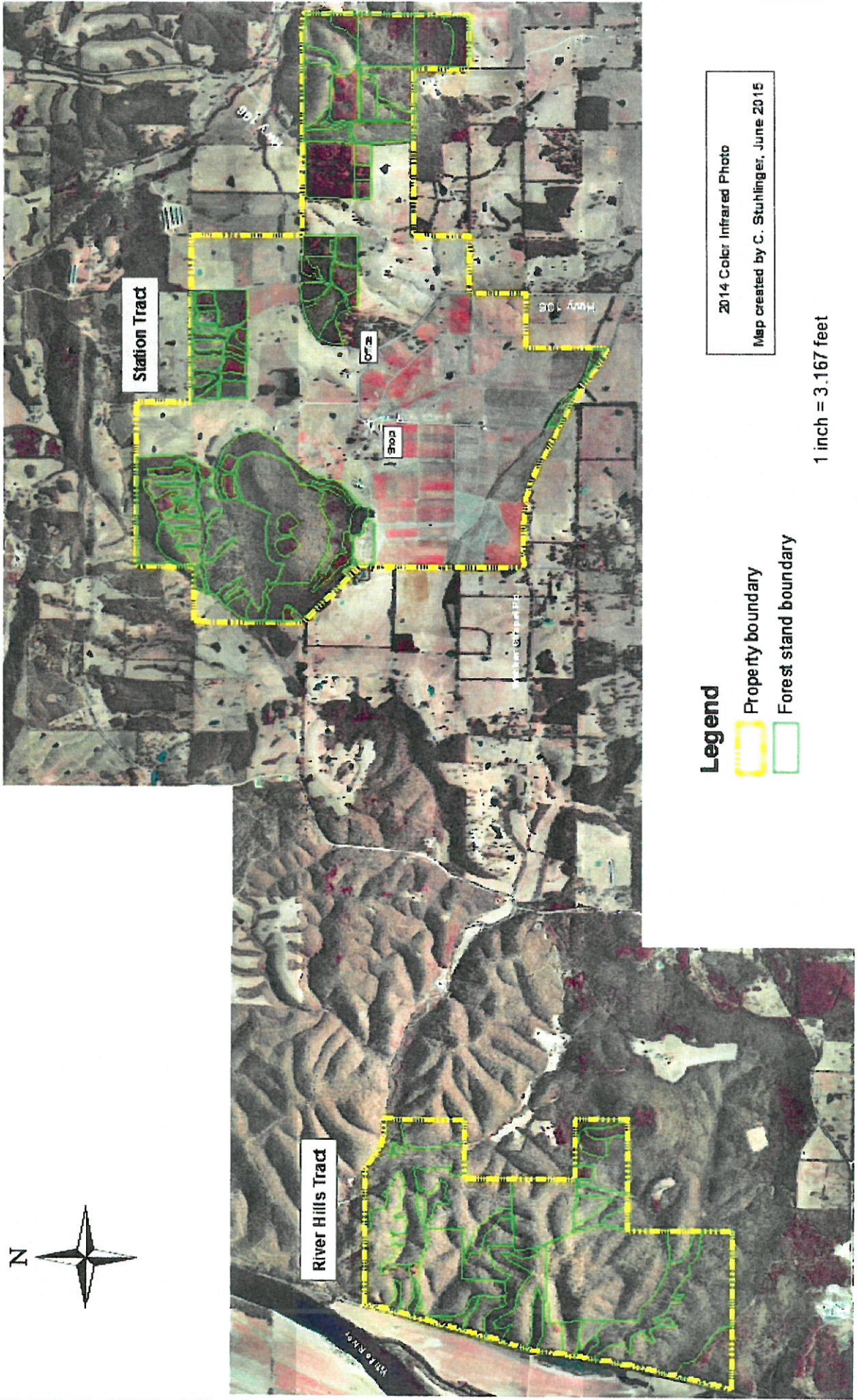
The logo for the University of Arkansas, featuring the letters 'U of A' in a stylized, red, serif font.

DIVISION OF AGRICULTURE
RESEARCH & EXTENSION



University of Arkansas System

ARKANSAS FOREST
RESOURCES CENTER

**University of Arkansas System - Division of Agriculture
Livestock and Forestry Research Station
Batesville, Independence County, Arkansas**



Legend

-  Property boundary
-  Forest stand boundary

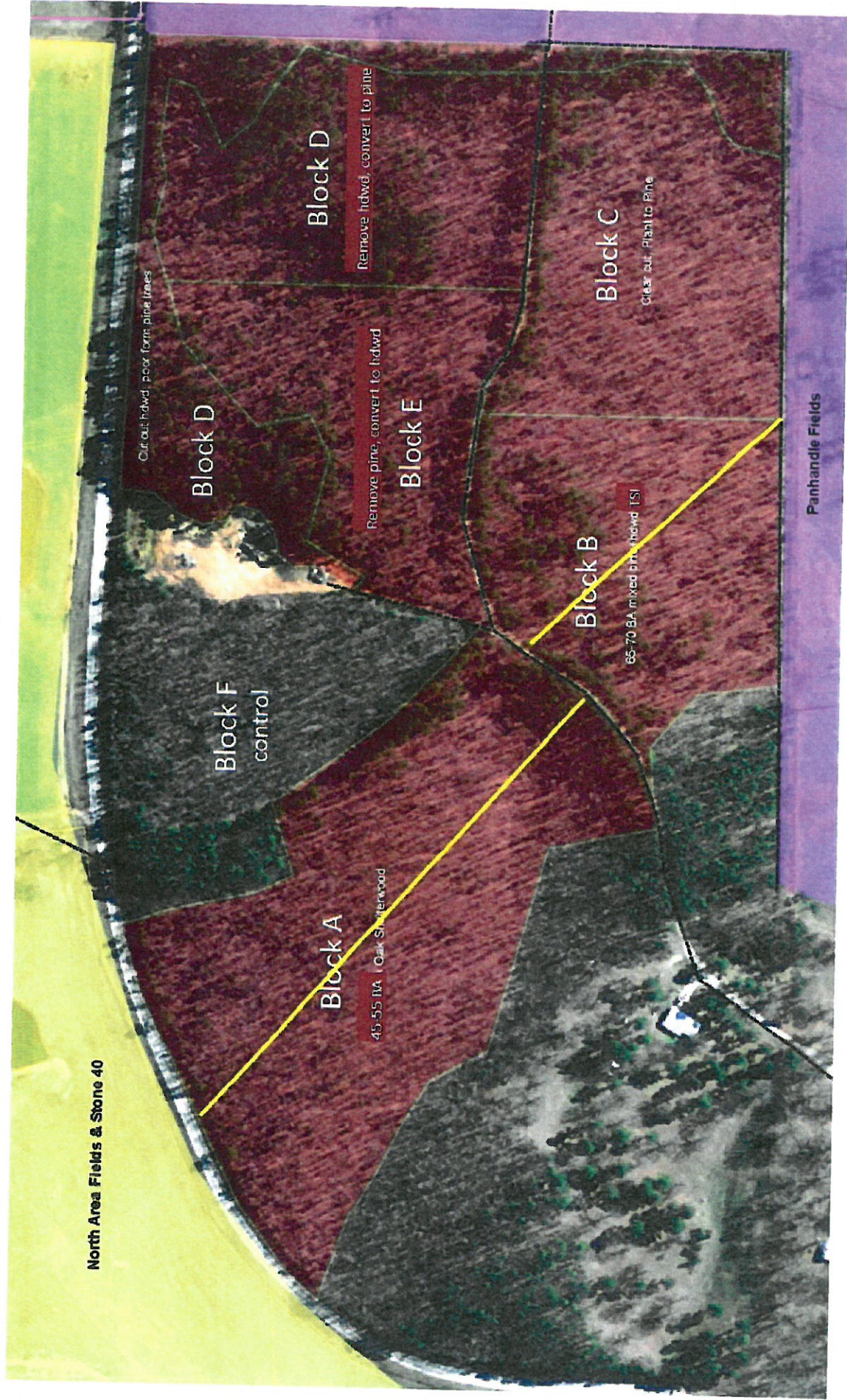
2014 Color Infrared Photo
Map created by C. Stuhlinger, June 2015

1 inch = 3,167 feet



Livestock and Forestry Research Station – Office Cutting Demo

(May 2016)



Block A – Oak Shelterwood - residual BA 45-55 sqft/ac (avg 50)
 burn half of block winter 2010, other half unburned

Block B – Mixed Pine/Hardwood – TSI, residual BA 65-70 sqft/ac
 burn half of block winter 2010, other half unburned

Block C – Clearcut, spray, plant to loblolly pine

Block D – Convert to Pine – clearcut hardwoods, TSI pine
 (residual BA 65-70 sqft/ac), burn, let pine seed in

Block E – Convert to Hardwood – clearcut pine, TSI hardwood
 (residual BA 65-70 sqft/ac), burn/spray as needed

Block F - Control