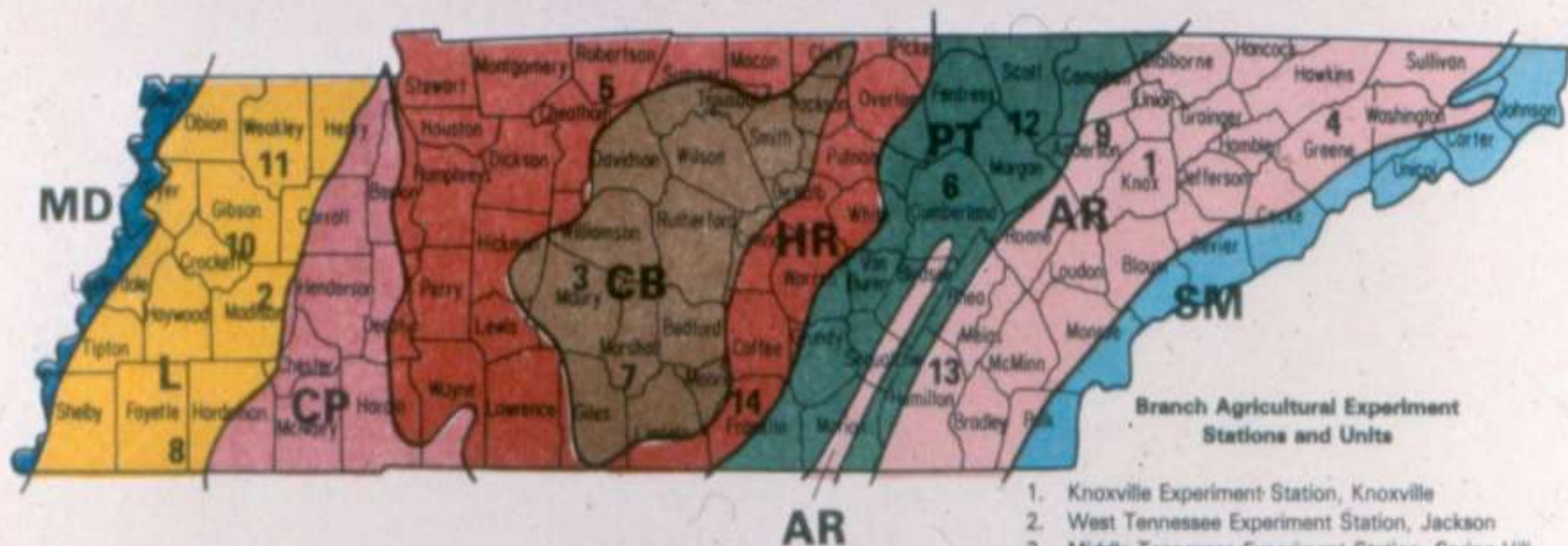


Tennessee Branch Agricultural Experiment Stations and Units

Tennessee Land Resource Areas



Land Resource Areas

MD	Mississippi Delta
L	Loess
CP	Coastal Plain
HR	Highland Rim
CB	Central Basin
PT	Cumberland Plateau and Mountains
AR	Appalachian Ridges and Valleys
SM	Smoky Mountains

1. Knoxville Experiment Station, Knoxville
2. West Tennessee Experiment Station, Jackson
3. Middle Tennessee Experiment Station, Spring Hill
4. Tobacco Experiment Station, Greeneville
5. Highland Rim Experiment Station, Springfield
6. Plateau Experiment Station, Crossville
7. Dairy Experiment Station, Lewisburg
8. Ames Plantation Experiment Station, Grand Junction
9. Forestry Experiment Station, Oak Ridge
10. Milan Experiment Station, Milan
11. Martin Experiment Station, Martin
12. Cumberland Forest Unit, Scott and Morgan Counties
13. Friendship Forest Unit, Hamilton County
14. Highland Rim Forest Unit, Tullahoma

Winter Cover Crops

- Erosion Control
- O.M. Contribution
- Rotational Benefits
- Nutrient Savaging
- Nutrient Recycling
N from Legumes



Tennessee: Crop Rotation



Disease, Insect, Weed Management

- Cover crop effects on diseases
- Insects
- Weed control
 - Shading and competition
 - Allelopathy
 - Systems to optimize effects



Establishment

- Late planting after low residue cotton
- Herbicide carryover affecting fall growth
- Poor fall cover crop growth
- Winter hardiness
- Weed control management in spring (early herbicide applications)



Adequate Control and Management Programs

- Holistic cover crop termination programs
- Delayed herbicide burndown, allowing longer cover crop growth in companion row crop
- Rolling, crimping, etc.



Economics

Seed cost and establishment costs?

Hairy Vetch \$1.97/lb (15 lb/A)

Crimson Clover \$1.12/lb (20 lb/A)

Cereal Rye \$0.50/lb (56-84 lb/A)

Bin-run Wheat \$0.12/lb (56-84lb/A)

Burndown Cost?

Price of Nitrogen?

NRCS cost share

