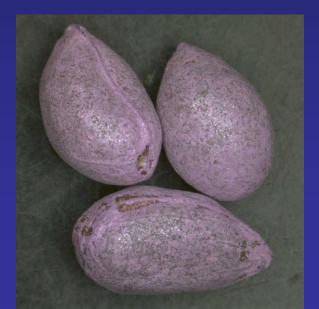
Seed treatments for nematode management

Charles Overstreet Extension Nematologist



Nematicides currently available in cotton

FumigantsTelone, K-Pam, Vapam



Nematicides currently available in cotton

Non-fumigants Temik, Vydate



Nematicides currently available in cotton

Seed Treatments Avicta Complete Cotton Aeris Seed Applied-System





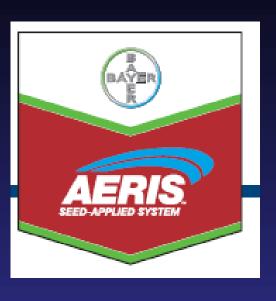
Seed treatments



Avicta Complete Pak (Cotton)

- Insecticide (Cruiser)
- ► Nematicide (Avicta)
- Fungicide (Dynasty CST for control of Pythium, Rhizoctonia, and Fusarium)

Seed treatments



AERIS Seed-Applied System

- Insecticide (imidacloprid or Gaucho Grande)
- Nematicide (thiodicarb)
- Optional fungicide (Trilex Advanced for control of Pythium, Rhizoctonia, Fusarium, or Thielaviopsis)

Seed Treatment Nematicides

Why would you use them to protect cotton?

How effective are they?

When should they be used?

Why would you use them to protect cotton?

- Ease of application
- **► Timeliness**
- Can provide multiple types of protection (insects, diseases, and nematodes)

How effective are they?

Temik
Untreated → ‡ → Fumigants
Seed
treatments

Effectiveness

Yield response of Avicta and Temik 2006 AL, AR, FL, LA, MS, TN, TX, VA

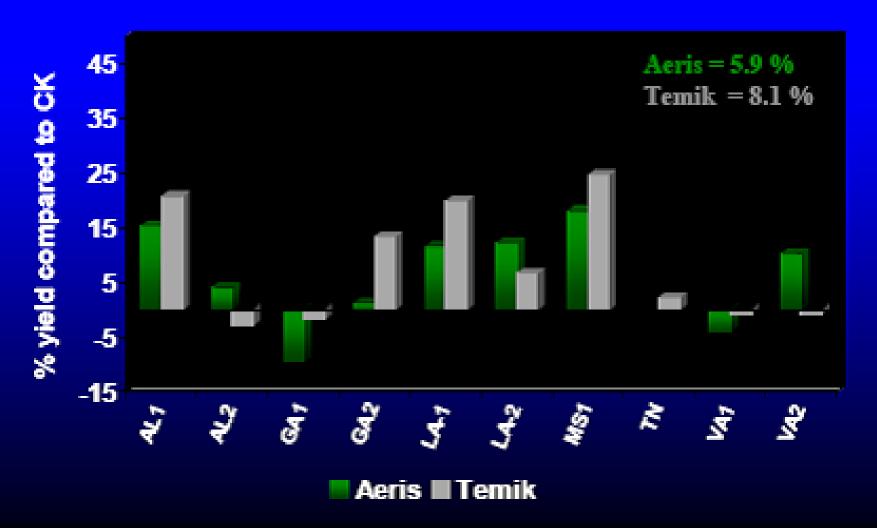




K.S. Lawrence and G.W. Lawrence. 2007 Beltwide Cotton Proceedings

Yield response of Aeris and Temik 2006 AL, GA, LA, MS, TN, VA

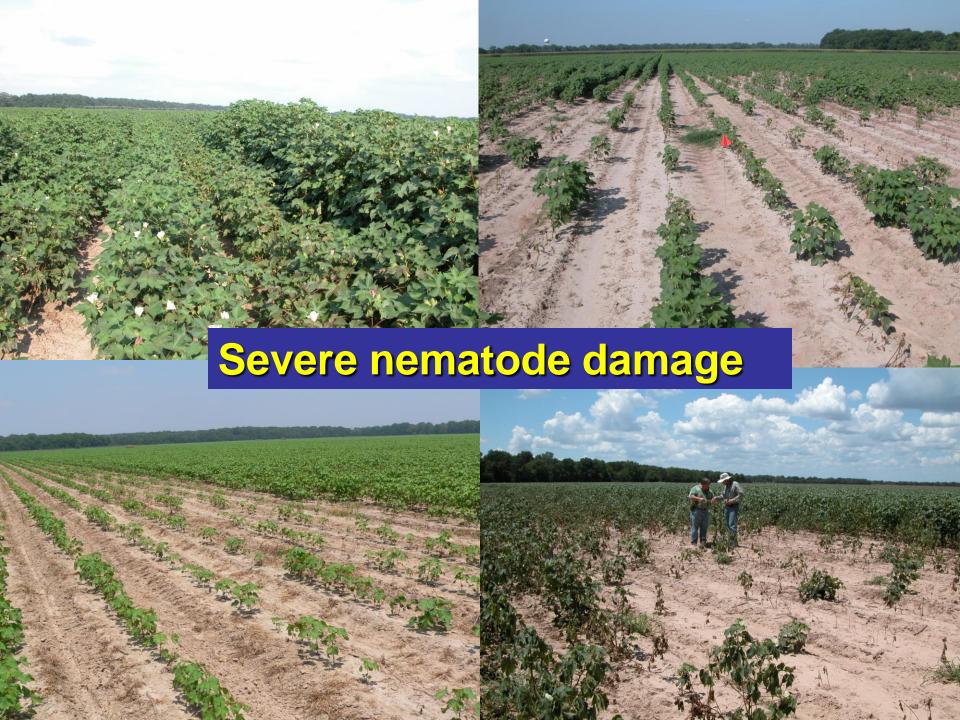


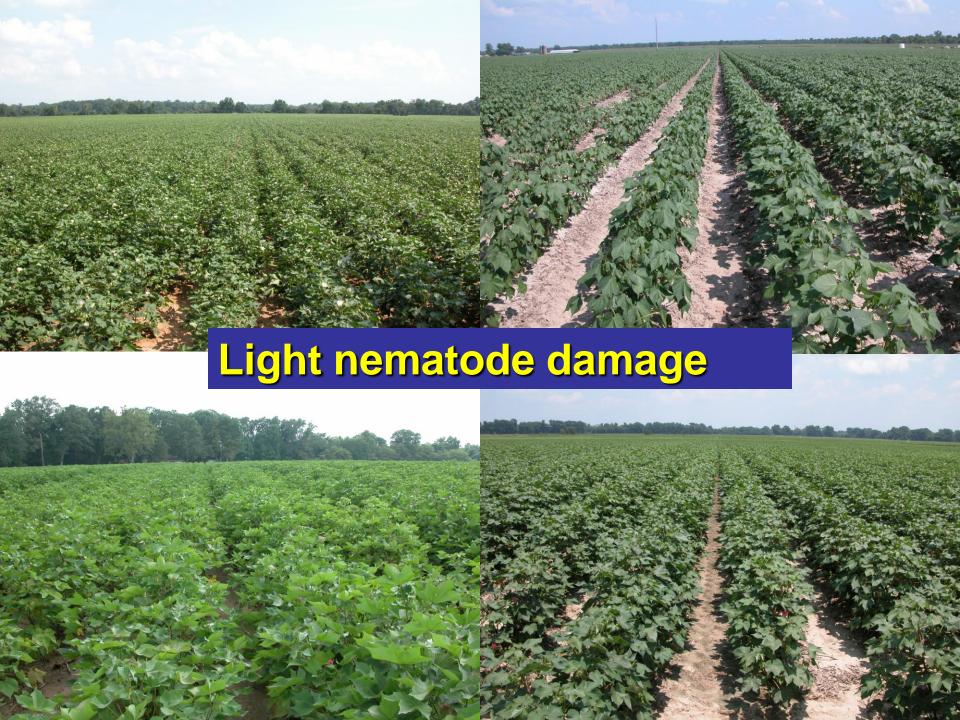


K.S. Lawrence and G.W. Lawrence. 2007 Beltwide Cotton Proceedings

When should they be used?

- Only for low- maybe moderate levels of nematodes
- Success will depend on type and levels of nematode and damage potential of soil types within a field





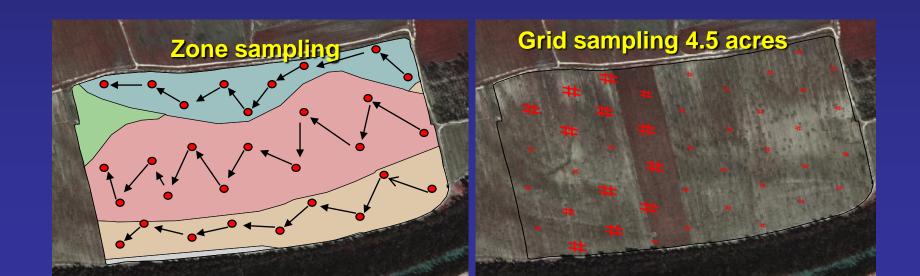
When to use seed treatment nematicides

After crop rotation

Crop	Reniform	Root-knot
Cotton	S	S
Corn	R	S
Milo	R	R
Peanut	R	R
Soybean	S-R	S-R
Sweet potato	S	S
Sugarcane	R	S-R
Rice	R	R
Vegetables	S	S

When to use seed treatment nematicides

In fields which have been sampled for nematodes (known levels and types)



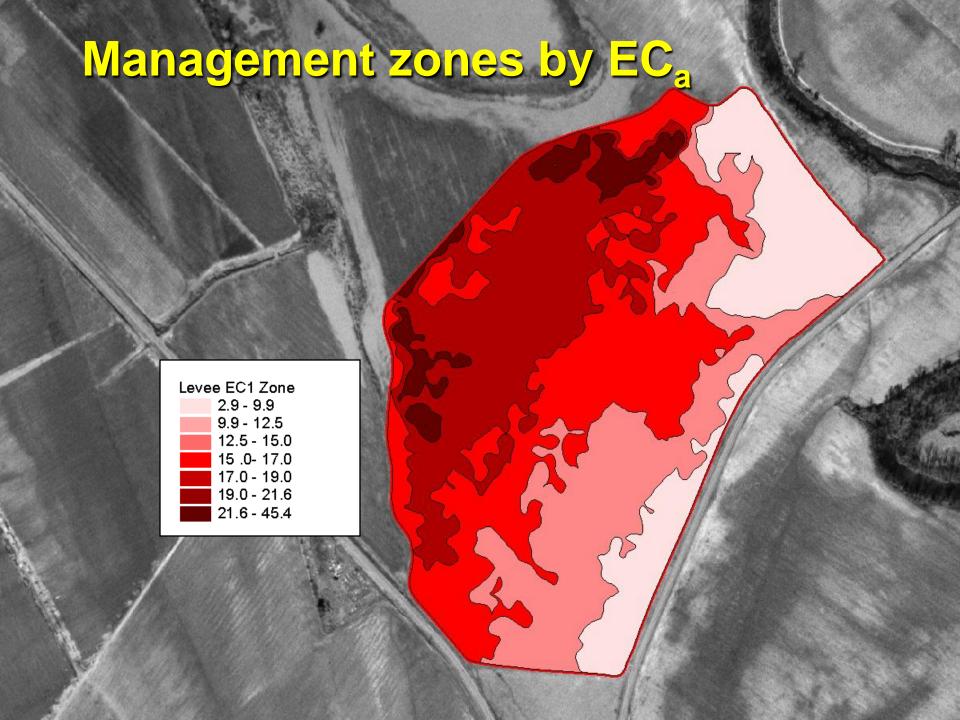
When to use seed treatment nematicides

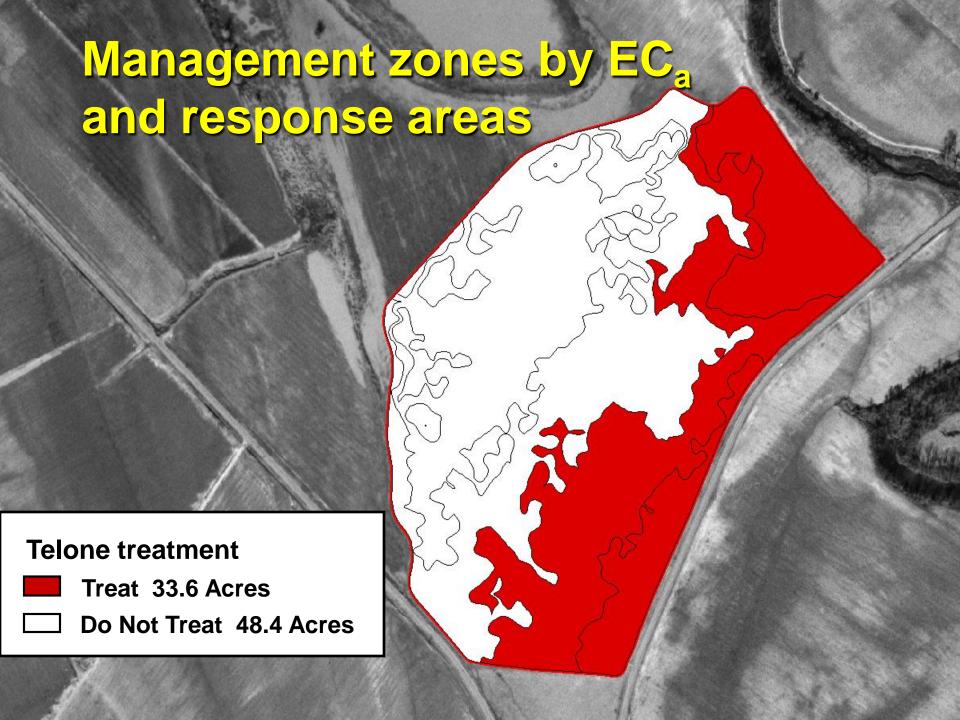
- In fields where nematode problems have not been observed and yields are high
- If you plan on supplementing with some other type of nematicide

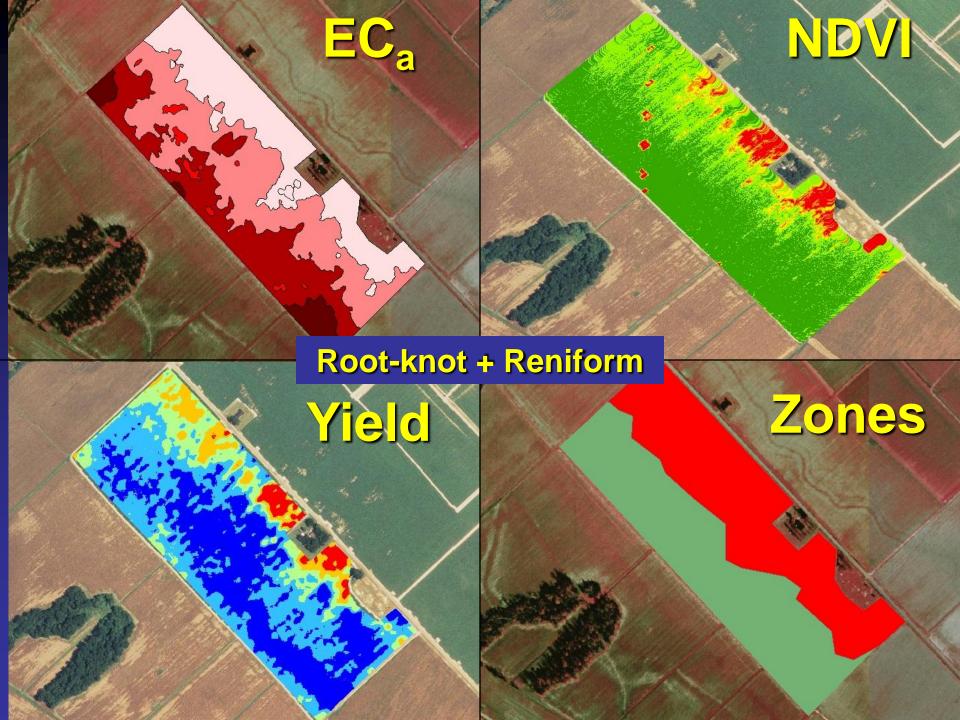
Options to use with a seed treatment nematicide

Preplant fumigant- Treat really bad areas in a field ahead of time









Options to use with a seed treatment nematicide

- Telone applied 7 days ahead of time but needs to be injected 12-14 inches beneath the row
- K-pam or Vapam need to be injected 21 days ahead of planting

Options to use with a seed treatment nematicide

- Combination with another nematicide
 - -Sidedress Temik
 - -Vydate at pinhead square