

Site-Specific Nematode Management: Can We Do It Without Temik?

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Temik Will be Missed?

- No other product has broad spectrum activity
- Temik is the golden standard for control
- Other products are not as flexible in rate and timing
- Growers may be faced with a potential decrease in productivity
- Other products not as effective in moderate to high infested fields ---- seed treatments, vydate, and other bionematicides
- Not enough Telone and application equipment to manage all of the moderate to high infested fields where Temik was utilized

Hampton County 2007

Seed Treatment	Temik (lbs/acre)	Galling index	Yield (lbs lint/acre)
None	0.0	2.75 abc	404.6 d
None	3.0	1.69 bc	836.9 a
None	5.0	2.44 abc	827.7 a
Aeris	0.0	3.06 ab	592.0 c
Aeris	3.0	1.12 c	760.9 ab
Aeris	5.0	2.31 abc	714.4 b
Avicta C.P.	0.0	3.69 a	561.8 c
Avicta C.P.	3.0	2.06 abc	730.6 b
Avicta C.P.	5.0	1.00 c	730.6 b

Arkansas: 2009 Nematode Distribution
H = High M = Medium L = Low N = None Identified

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County	<u>Root-knot</u>	<u>Reniform</u>	<u>Lance</u>
ASHLEY	H	M	N
CHICOT	N	L	N
CRAIGHEAD	M	N	N
CRITTENDEN	H	N	N
DESHA	H	L	N
DREW	H	L	N
JEFFERSON	H	H	N
LAFAYETTE	H	N	N
LINCOLN	H	L	N
LONOKE	H	M	N
MILLER	H	N	N
MISSISSIPPI	H	N	N
MONROE	L	H	N
PHILLIPS	H	N	N
POINSETT	N	L	N
PULASKI	L	N	N
ST. FRANCIS	L	N	N

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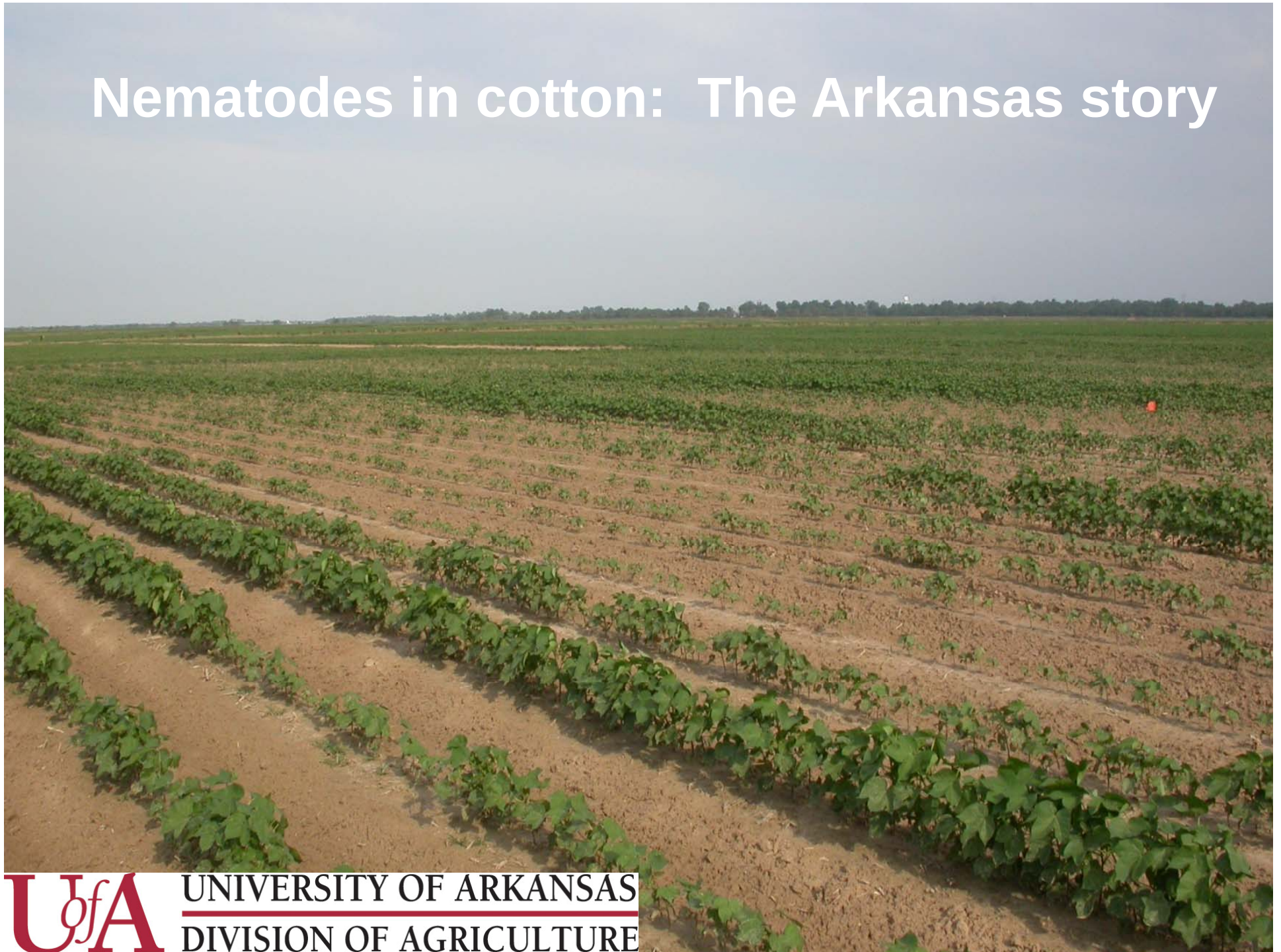
To achieve success:

1. We must sample and know the nematode species in each field and their distribution and population.
2. Once you determine and understand your problem, you need to attack it with the most effective control measure for your farm.
3. Uses resistance and rotation when available --- not very much to choose from.
4. Control measures may be a single nematicide or a combination of nematicides in moderate to high infested fields.
5. Do not choose a product just based solely on price or ease of application.
6. Adaptation of Precision Agriculture Technologies will help if used appropriately!

Site-Specific Management

- Increased sampling efficiency
 - Map damage
 - Incorporate historical data
 - Map multiple nematode species
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- Site-specific application of single or multiple nematicides
 - Spot treat select areas
 - With yield maps, see yield response in any area of the field

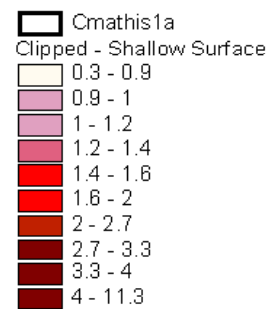
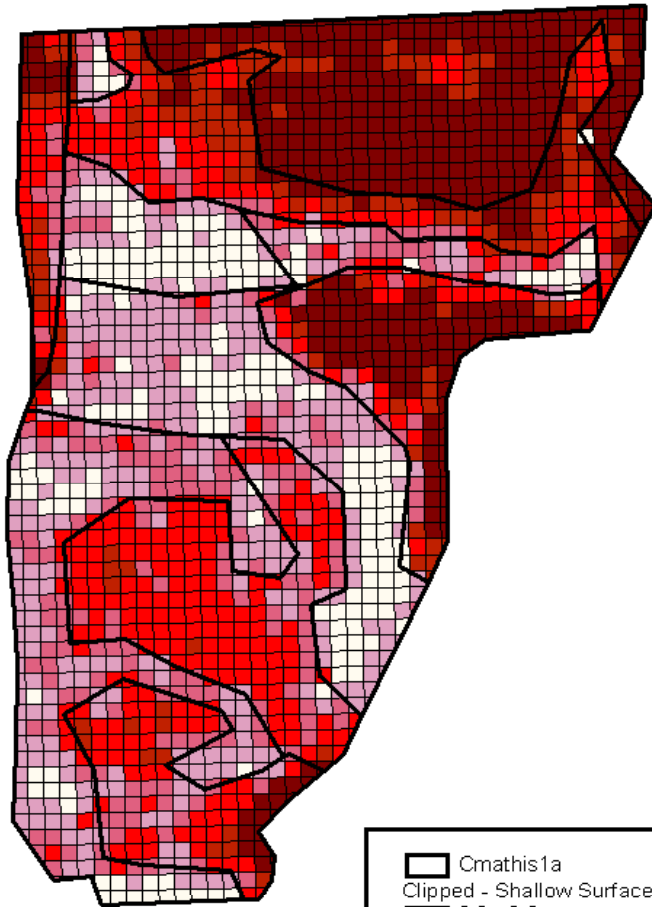
Nematodes in cotton: The Arkansas story



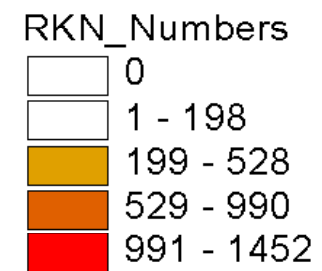
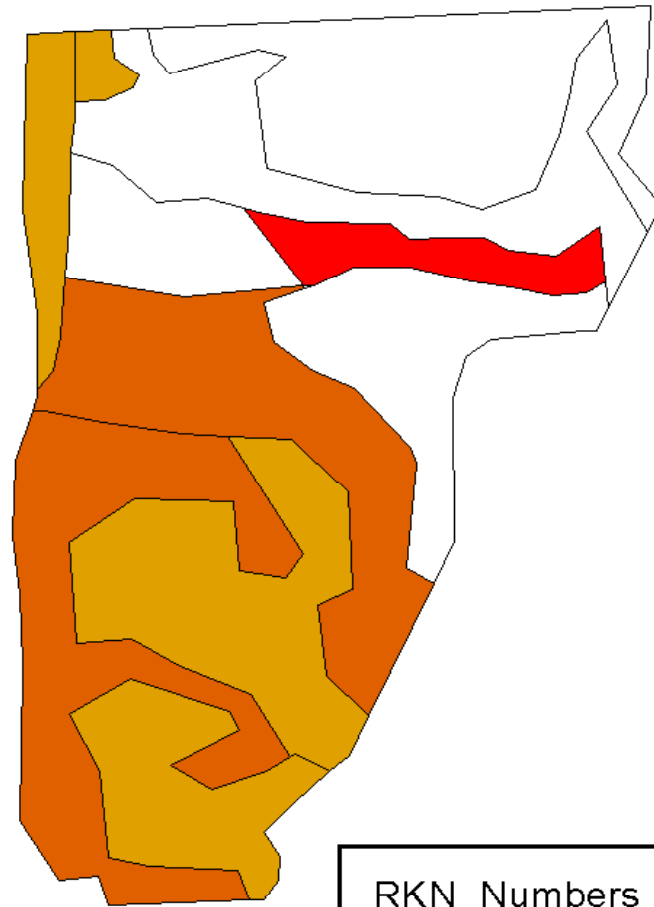


CM8-9; 06 (73.36 ac.)

Cmathis1a, Clipped - Shallow Surface

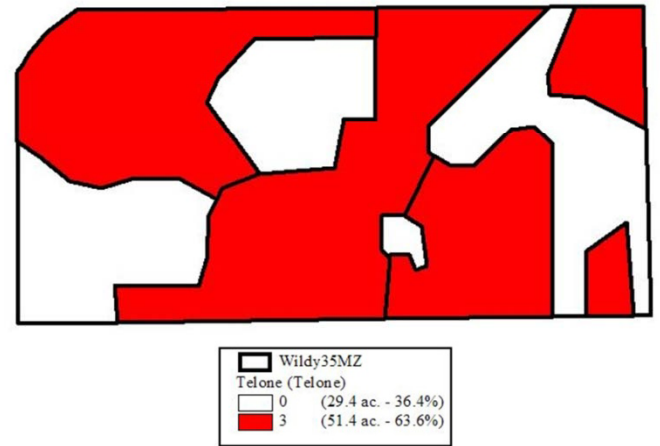
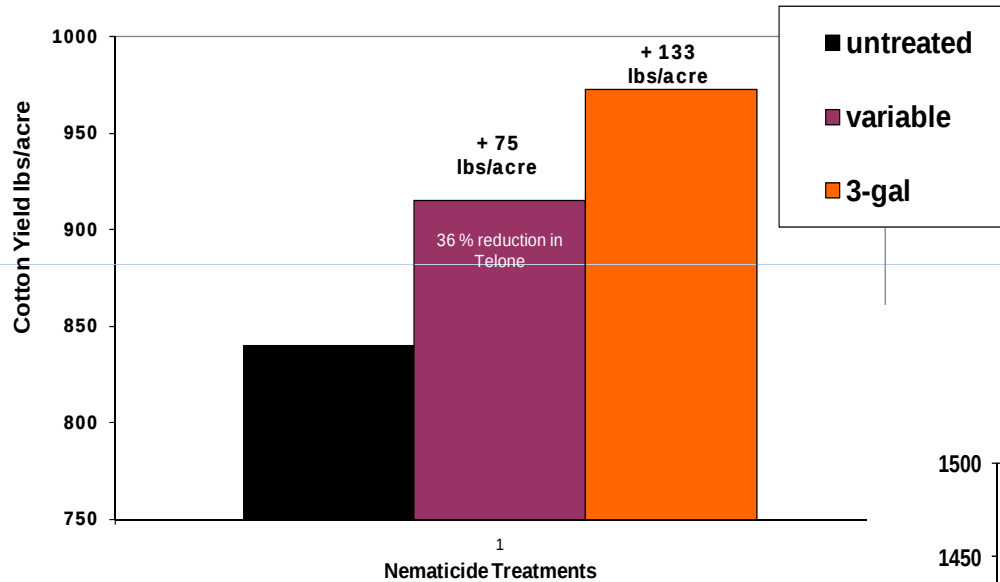


RKN_Numbers

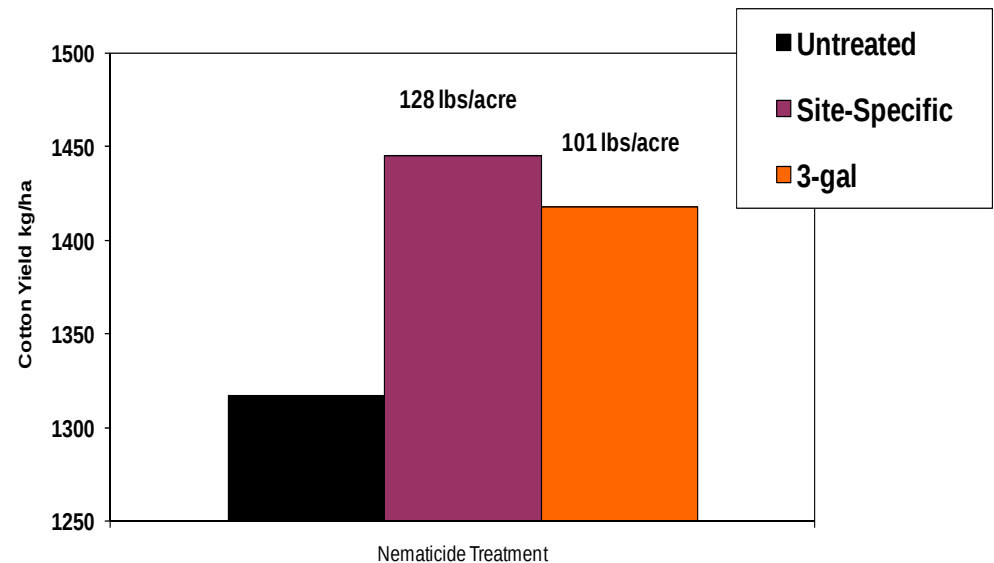


Site-Specific Telone Application

VRT Telone Application - Bruce Bond



Site-Specific Telone Application - Wildy Farms



- Can save up to ~35% on Telone input
- Similar yields
- Quick return on investment in moderate to severe nematode problem fields

Do Not Forget Other Problems In Production --- They Can Enhance The Nematode Issue

Fertility	Seedling Disease
Rotational Crop – Corn, Grain Sorghum	Soil Compaction
Water Problems	Weeds
Insects	

Impact of Tillage and Telone on Yield

■ 2008 ■ 2009

