## Disease Management

## Jason Brock Department of Plant Pathology

## What happened in 2007?

- Little to no leaf scab or other foliar diseases
- Nut scab did not show up until late summer.



Avoid this area.

enough

too many

2003 vs. 2007

good protection

good protection

Number of fungicide applications

## Responsive Spray Schedule

Use extended intervals.

Use AuPecan.

## AU PECAN TRIAL

Tim Brenneman
UGA Dept. of Plant Pathology
Tifton, GA

## Schedules

- 1) Au-Pecan:
- 2) Au-Pecan:
- 3) Calendar:
- 4) Calendar:
- 5) Calendar:

	Spray Dates for 2007					
	AU-Pecan					
	AUP 1	AUP 2	2; 3	2	2	
	Trt 1	Trt 2	Trt 3	Trt 4	Trt 5	Trt 6
App #	P std	P SI	Calendar	Calendar	Calendar	Nontreated
1	11-Apr	11-Apr	11-Apr	11-Apr	11-Apr	
2	4-Jun	4-Jun	25-Apr	25-Apr	25-Apr	
3	2-Jul	2-Jul	9-May	9-May	9-May	
4	25-Jul	16-Jul	22-May	22-May	22-May	
5	9-Aug	3-Aug	13-Jun	4-Jun	4-Jun	
				40.1	4.0.1	
6			4-Jul	18-Jun	18-Jun	
-			05 1.1	0 1.1	0 1.1	
7			25-Jul	3-Jul	3-Jul	
0			16 Δμα	16 lul	16 Jul	
8			16-Aug	16-Jul	16-Jul	
9				31-Jul	31-Jul	
3				Jiroui	JIJUI	
10				14-Aug	14-Aug	
- ' -				117.00		
11					28-Aug	
12					11-Sep	

### **AU Pecan**

www.awis.com

"pecan weather"

### **Fungicide Selection**

Performance

Cost

Resistance Management

Fungicide Class	Common name	Trade name
Benzimidazole	thiophanate-methyl	Topsin-M
Guanidine	dodine	Elast
Organo-metallics	fentin hydroxide (=TPTH)	Super Tin, Agri Tin
DMIs	propiconazole fenbuconazole	Orbit, Tilt, Propimax,  ½ of Stratego, ½ of Quilt  Enable
Strobilurins	azoxystrobin kresoxim-methyl pyraclostrobin trifloxystrobin	Abound, ½ of Quilt Sovran Headline ½ of Stratego

7

г

Fungicide Class	Common name	Trade name
Pro recition to le con le c	Albita sulba mada, maadibudi	The reading IVI
<mark>-</mark>	DMIs	
propiconazole Orbit, Tilt, Propimax, ½ of Stratego, ½ of Quilt		
fenbuconazole Enable		
		, , ,
DMIs	propiconazole	Orbit, Tilt, Propimers, % of Stretego, % of Quilt
	elozisnopudnet	Enable
Strobilurins	azoxystrobin kresoxim-methyl pyraclostrobin trifloxystrobin	Abound, ½ of Quilt Soviein Headline ½ of Strettego

Fungicide Class	Common name	Trade name	
Benzimidazole	thiophanate-methyl	Topsin-M	
Guamidine	dodine	Elast	
	Strobilurins		
azoxystrobi	d, ½ of Quilt		
kresoxim-m	ethyl Sovran		
pyraclostro	bin Headlii	ne	
trifloxystrol	oin ½ of Si	tratego	
fenbuconazole Enable			
	& zoxystrobin	Abound, % of Quilt	
Strobilurins	kresoxim-methyl	Sovien	
	pyraclostrobin trifloxystrobin	Headline % of Stratego	

Common name	Trade name	
thiophanate-methyl	M-nisqoT	
dodine	Elast	
Strobilurins		
n ½ of Q	uilt in	
ethyl Sovran		
bin Headlir	ne	
oin ½ of St	tratego	
fenbuconazole Enable		
ezoxystrobin	Abound, ½ of Quilt	
kresoxim-methyl	Soviein	
	Headline % of Stratego	
	Strobilurins  Strobilurins  n ½ of Queethyl Sovrant bin Headling oin ½ of Stereous Strobin  tenbuconazole	

Fungicide Class	Common name	Trade name
E Do not use ald	ne. 1-2 applications.	Topsin-M
Do not use full season.		Elast
Organo-metallics	fentin hydroxide (=TPTH)	Super Tin, Agri Tin
If you use a full rate alone, then DO NOT use a reduced rate later in season.		Orbit, Tilt, Propimax, ½ of Stratego, ½ of Quilt Enable
Do not make more than 3 total applications.  trifloxystropin		Abound, ½ of Quilt Sovran Headline ½ of Stratego

# First Question: What to spray for nut scab?

- Post-pollination is the critical period for protection.
- Decide what you want to spray during this time, and work from there.

Fungicide Class	Trade name
Benzimidazole	Topsin-M
DMIs	Tilt, Propimax, ½ of Stratego, ½ of Quilt Enable
Strobilurins	½ of Quilt Sovran Headline ½ of Stratego
Guanidines	Elast
Organo- metallics	Super Tin, Agri Tin

April/May
Enable or Propimax
Headline or Sovran
Stratego or Quilt
DMI + Tin

June/July
Tin
or
Elast + Tin

August
Tin or Elast + Tin

#### April/May

Enable or Propimax
Headline or Sovran
Stratego or Quilt
DMI + Tin

Fungicide Class	Trade name
Benzimidazole	Topsin-M
DMIs	Tilt, Propimax, ½ of Stratego, ½ of Quilt Enable
Strobilurins	½ of Quilt Sovran Headline ½ of Stratego
Guanidines	Elast

**Super Tin, Agri Tin** 

Organo-

metallics

June/July
Tin
or Elast + Enable
Elast + Tin

<u>August</u> Tin or Elast + Tin

#### April/May

Fungicide Class	Trade name
Benzimidazole	Topsin-M
DMIs	Tilt, Propimax, ½ of Stratego, ½ of Quilt Enable
Strobilurins	½ of Quilt Sovran Headline ½ of Stratego
Guanidines	Elast
Organo- metallics	Super Tin, Agri Tin

DMI + Tin

June/July

Stratego or Quilt

August
Tin or Elast + Tin

# Fungicide Class Trade name

April/May
Headline or Sovran
Stratego or Quilt

Topsin-M

Tilt, Propimax,

Market Market

June/July

August

DMI + TIN

Strobilurins

Benzimidazole

Sovran
Headline

1/2 of Stratego

½ of Quilt

Tin or Elast + Tin

**Guanidines** Elast

Organometallics
Super Tin, Agri Tin

### **A Few More Topics**

#### Coverage

- Eliminate overcrowding
  - Humidity
  - -Poor coversige
- Reduce stress
  - -proper iertility
  - erutaion etaupelus –

## Pecan Orchard Air Blast Sprayers Paul E. Sumner Department of Agricultural and Biological Engineering The University of Georgia Tifton, GA 31793

Air delivery or air blast sprayers are used to apply pesticides, plant growth regulators, and foliar nutrients to orchard trees by applying these materials as liquids carried in large volumes of air. Air blast sprayers have adjustments in the fluid and air delivery systems that permit tailoring of applications to fit a wide range of orchard conditions.

The effice of mana operatin perform.

## ugapecan.org 'Information for Growers'

kills

rent.

A spray

favorable conditions is a liability under adverse conditions. Sprayers should at least meet the demands of spraying large, thick trees under the poorest conditions allowable for spraying. Reliability, maintenance history, and the ability to cover the projected acreage should be considered in selecting spray equipment.

Horsepower requirement is a very important consideration because fans must move a considerable weight of air and materials. Manufacturers provide recommended horsepower range, but reliability and equipment longevity are often enhanced by selecting from the upper range of suggested horsepower.

A good practice is to observe sprayers operating in orchards where tree size, row spacing, weather, speed, application volume, and so on, are challenging, and examine coverage. Request dealer

### **A Few More Topics**

- Coverage
- Eliminate overcrowding
  - Humidity
  - Poor coverage
- Reduce stress
  - proper fertility
  - -adequate moisture

