2014 Pecan Disease Management Update

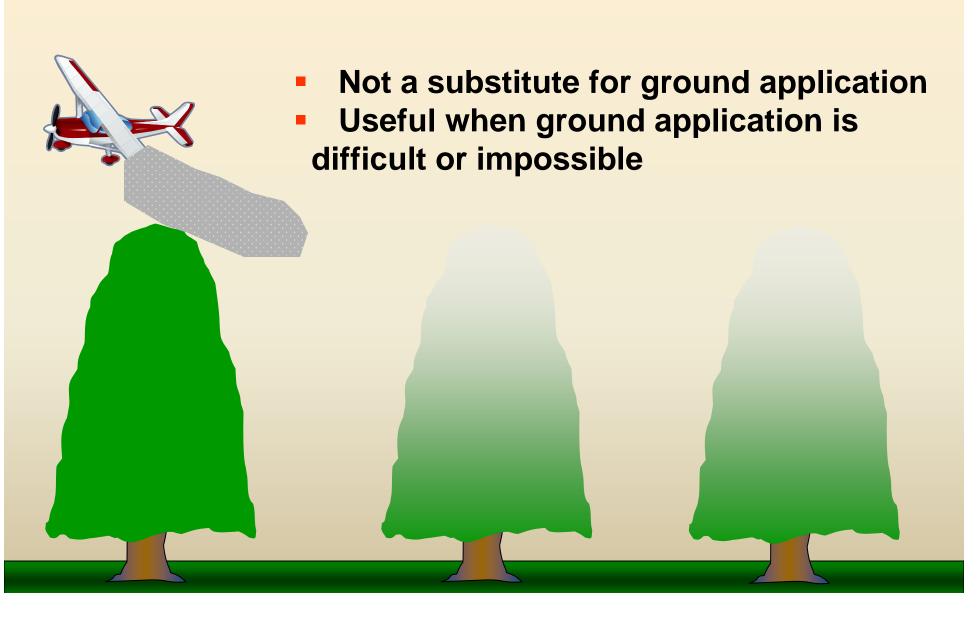
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Theory vs. Reality

Test of spraying capacity

- Additional sprayer?
- Calibration?
- Trouble areas in the orchard





Spray at night?

- Why?
 - Wind
 - Behind schedule
- Issues
 - Visibility
 - Drying time (evaporation rate; increased RH; dew)
 - Leaves might need 2-3 hrs after sunrise to dry
 - Dew
 - Can lead to runoff
 - Can improve distribution of fungicide
- Bad combo: dew + early morning rain

When to start in 2014?

Parachute stage (~ 10-14 days after bud break)

• Bud break

- What to use early?
 - Dodine and Qols have anti-sporulation activity

Generic azoxystrobin

active ingredient in Syngenta's Abound and Quadris fungicides

- Strobilurin
- FRAC Group 11
- High risk for fungicide resistance

Pecan Fungicides

FRAC Code 11 (Strobilurins)

azoxystobin

□ Abound

kresoxim-methyl

□ Sovran

pyraclostrobin

☐ Headline

Pecan Fungicides

Multiple Active Ingredient

	Group 3	Group 11
Absolute	tebuconazole	trifloxystrobin
Quilt	propiconazole	azoxystrobin
Quadris Top	difenoconazole	azoxystrobin

Notes from UGA Research Trials

- The use of phosphite materials
 - No reduction in shuck split (5 applications)
 - Granular phosphite applications not effective

Pecan Fungicides

FRAC Code 33 (phosphites)

- **□**Scab
 - Phostrol
 - ☐ ProPhyt
 - Viathon
- 1-2 qts
- Apply in 100 gpa by ground.
- Do not apply in consecutive applications.

- ■Phytophthora
 - ☐ Fosphite
 - ☐ Fungi-Phite
 - ☐ KPhite
 - ☐ Phiticide
 - ☐ Phostrol
 - ☐ Rampart
 - □ Topaz

Notes from UGA Research Trials

- The use of phosphite materials
 - No reduction in shuck split (5 applications)
 - Granular phosphite applications not effective
- Nordox 75WG
 - Certified Organic Copper Fungicide
- Tank mixing vs. alternating fungicides

UGA Fungicide Screening Program

UGA Fungicide Screening Program

- Collect one sample per orchard from one cultivar.
- At least 50 leaflets with visible scab lesions
- Do not collect all leaves from the same tree or row.
- Do not collect leaves less than 7 days after the last fungicide application.
- Place in a large (1-gallon) plastic Ziploc bag
- label bag with the collector's name, orchard location and collection date, seal
- Do not place moist paper towels in the bag with the leaflets
- Provide the information and include completed form.

			Fungicide Class	Common Name	Trade Name	FRAC Code
Common Trade FRAC		QoIs	azoxystrobin	Abound 1/2 of Quilt 1/2 of Quadris Top	J V (1)	
Name	Name	Code	(strobilurins)	kresoxim- methyl	Sovran	11
thiophanate- methyl	Topsin-M	1		pyraclostrobin	Headline	
				trifloxystrobin	1/2 of	
					Absolute	
	Elast			propiconazole	Bumper,	
dodine		M3			Orbit	
fentin hydroxide (=TPTH) Super Tin Agri Tin		- · · · · · · · · · · · · · · · · · · ·			Propimax	
	Cunon Tin				½ of Quilt	
	_ ·				Monsoon,	3
	Agri Tin				Orius,	
phosphite		33	DMIs	tebuconazole	Tebuzol,	
			(triazoles, sterol inhibitors)		Toledo	
					½ of	
					Absolute	
			metconazole	Quash		
				fenbuconazole	Enable	
				difenoconazole	½ of Quadris Top	