

Pecan Diseases - 2007

- What happened in 2007?
 - Why?
 - What can be learned?
- What about 2008?

What happened in 2007?

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



Control of Pecan Scab

- Resistance
- Fungicide applications
 - Bud break through shell hardening
(Early April through mid-August)
 - From 5 to 15 applications

Pecan Disease Loss Estimates

	% Reduction in Crop Value	Damage (\$ Millions)	Cost of Control (\$ Millions)	Total (\$ Millions)
2000	0.10	0.09	12.10 [7]	12.19
2001	0.15	0.09	12.10 [7]	12.19
2002	2.00	1.60	12.10 [7]	13.70
2003	20.05	13.80	19.00 [11]	32.80
2004	3.0	2.2	13.8 [8]	16.0
2005	3.0	3.1	13.8 [8]	16.9
2006	0.1	0.14	13.5 [7]	13.64

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FLOOD INSURANCE



LIFE INSURANCE Risk Factors

The higher the risk,
the higher the cost.

The Cost of Smoking

Research shows that smokers pay at
least 3X the premium of nonsmokers.

Fungicide applications = insurance

**Avoid
this
area.**

enough

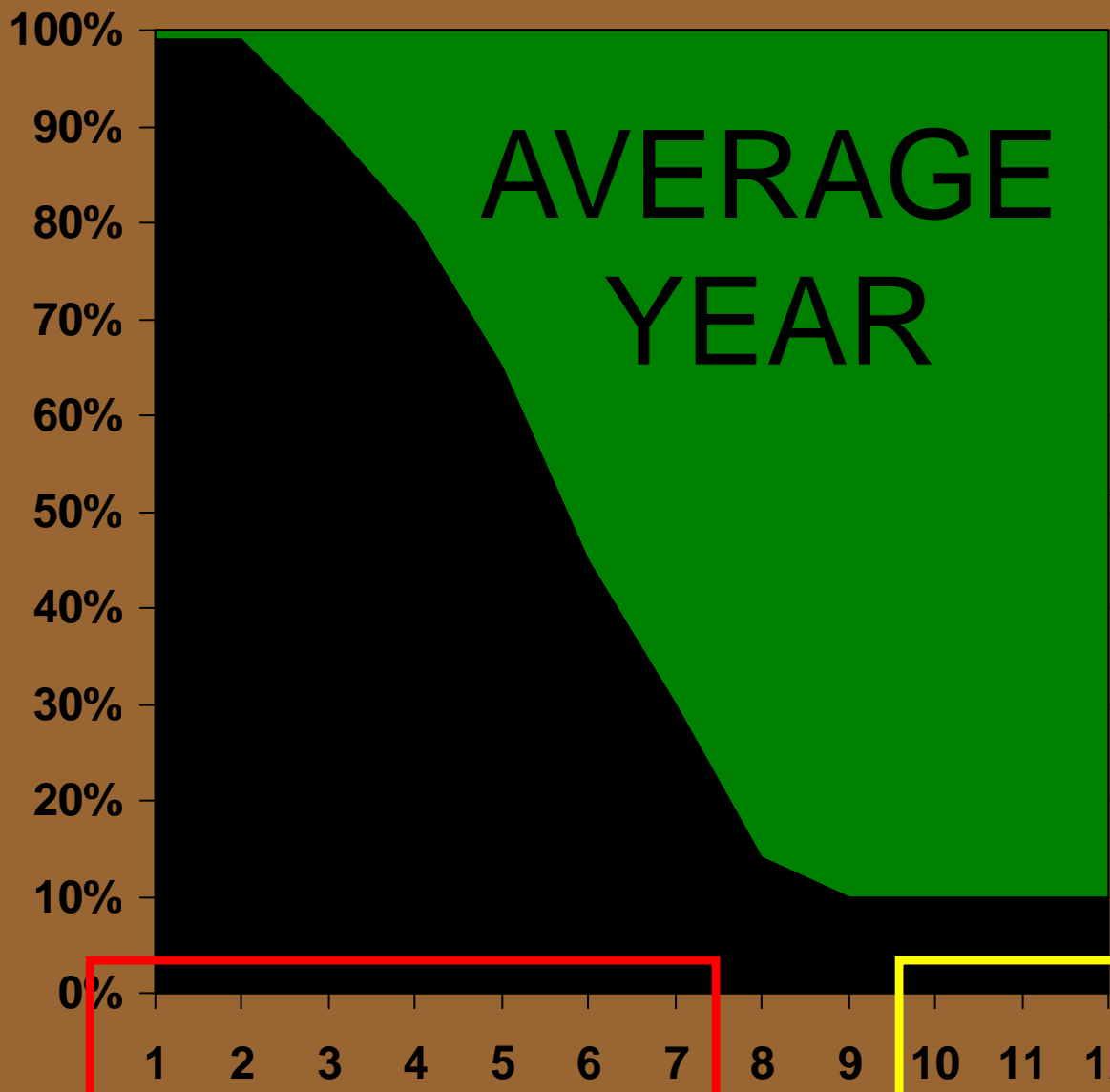
too many

**good
protection**

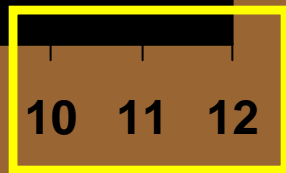
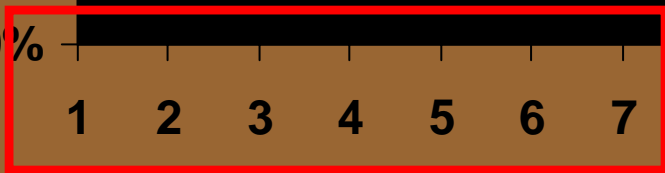
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?

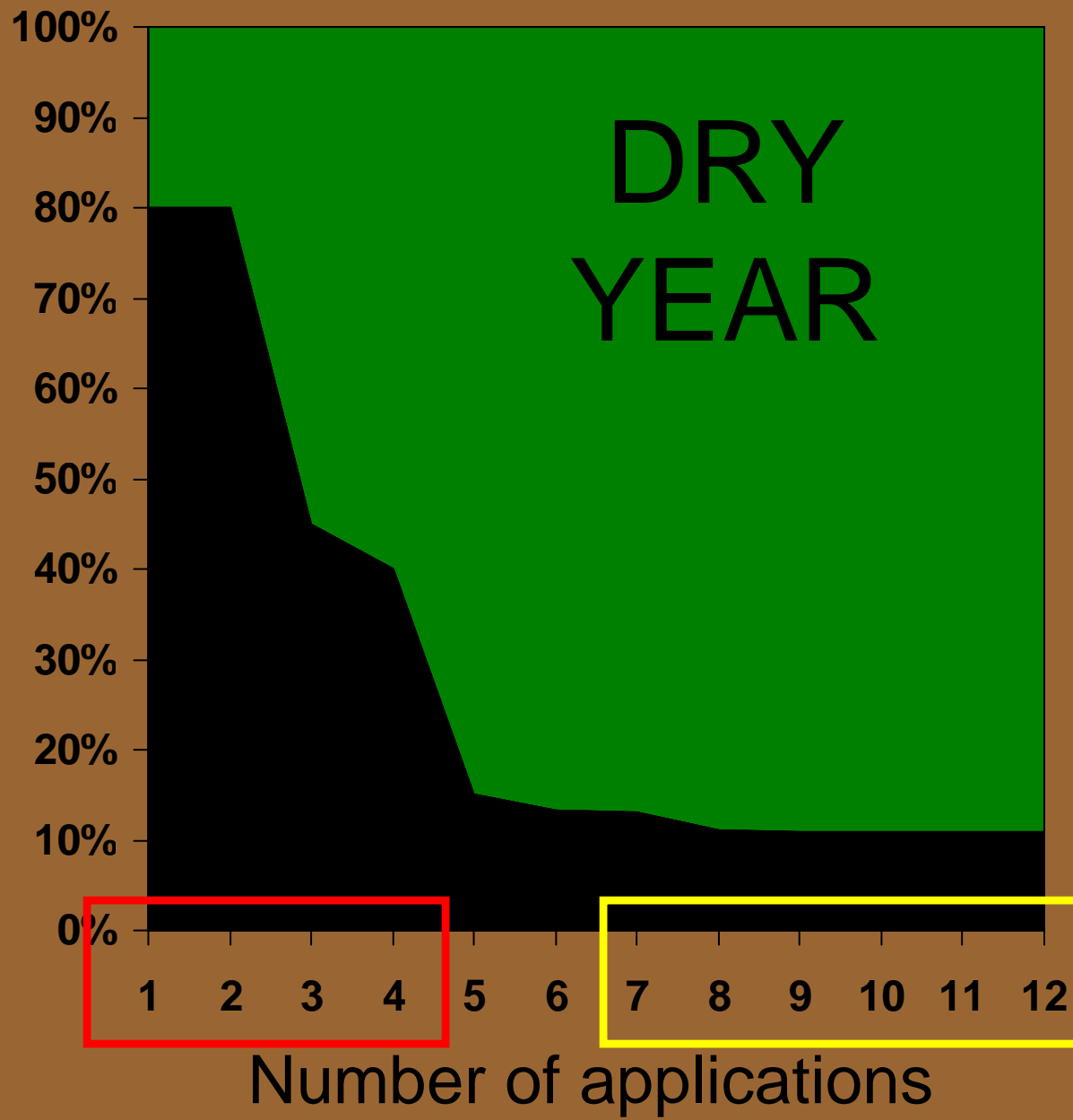
Number of fungicide applications



AVERAGE
YEAR



Number of applications



- **Adjust spray schedule depending on potential disease pressure.**
- **Use AuPecan**

AU PECAN TRIAL

**Tim Brenneman
Dept. of Plant Pathology
Coastal Plain Experiment Station
Tifton, GA**

NEW for AU PECAN

**10 day and 14 day
post-pollination
protection interval**

Schedules

- 1) Au-Pecan: 14 day protection interval**
- 2) Au-Pecan: 10 day protection interval**
- 3) Calendar: 2 weeks; 3 weeks to mid-Aug**
- 4) Calendar: 2 weeks to mid-Aug.**
- 5) Calendar: 2 weeks; into Sep.**

Spray Dates for 2007

AU-Pecan

	14	10	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	
6			4-Jul	18-Jun	18-Jun	
7			25-Jul	3-Jul	3-Jul	
8			16-Aug	16-Jul	16-Jul	
9				31-Jul	31-Jul	
10				14-Aug	14-Aug	
11					28-Aug	
12					11-Sep	

Fungicide Class	Common name	Trade name	Relative risk of resistance
Benzimidazole	thiophanate-methyl	Topsin-M	high
DMI s	propiconazole fenbuconazole	Orbit, Propimax, ½ of Stratego, ½ of Quilt Enable	medium
Strobilurins	azoxystrobin kresoxim-methyl pyraclostrobin trifloxystrobin	Abound, ½ of Quilt Sovran Headline ½ of Stratego	high
Guanidines	dodine	Elast	moderate
Organo-metallics	fentin hydroxide (=TPTH)	Super Tin, Agri Tin	low

Apr

May

Jun

Jul

Aug

Sep

