



# Planning and Establishing a New Pecan Orchard



# Many Decisions to Make?

- Site Selection
- Site Analysis
- Preplant Considerations
- Variety Selection
- Orchard layout
- Site Preparation
- Plant Sources
- Planting Tips
- Equipment and Growing Supplies
- Management Considerations



benjung; saumund

# Where can I save money??

Irrigation?

Fertilizer?

Cultivars?

Fungicides?

Herbicides

Equipment?

Mowing?

#### Scab Resistant Varieties

**Elliott** 

Kanza

Lakota

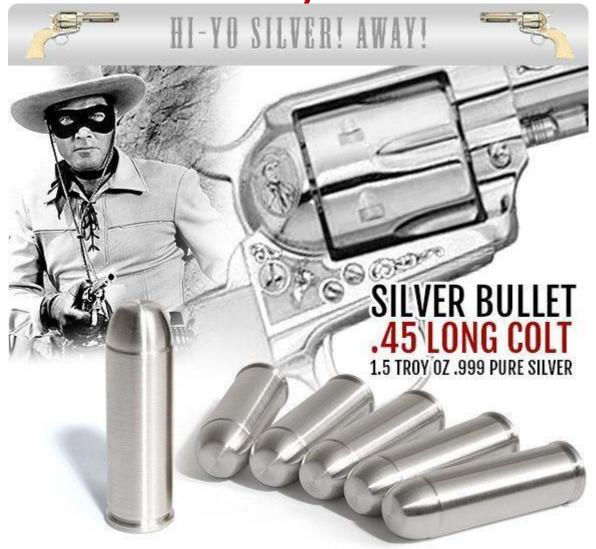
**Excel** 

Sumner

**Gafford** 



## A Scab resistant variety is not a silver bullet!!





# Case Study





#### Elliott



- Tree: Protogynous, with midseason pollen shed. Moderate precocity and yield potential.
- Nut: 67 nuts/lb, 53% kernel.
- Disease: High scab resistance, susceptible to black aphid.

### So what can cause a pecan tree to defoliate?

**Black Aphids** 

**Scorch Mites** 

**Bacterial Leaf Scorch** 

**Neofusicoccum** 

**Brown Spot** 

Scab



#### **Treatments**

**Control** 

Abound Group 11

Elast 400F Group U12

**Ele-Max NC** micronutrients

Enable 2F Group 3

Rampart Group 33

Super Tin 4L Group 30

Ziram 76F Group M3

#### **Treatments**

**Control** 

Abound 9.5 oz/acre

Elast 400F 51 oz/acre

Ele-Max NC 2 quarts/acre

Enable 2F 8 oz/acre

Rampart 2 quarts/acre

Super Tin 4L 12 oz/acre

Ziram 76F 7 lb/acre

#### **Treatment Dates**

5 single tree reps for each treatment

**Spray 1 April 5, 2018** 

Spray 2 April 19, 2018

Spray 3 May 8, 2018

Spray 4 May 31, 2018

Foliage evaluated on Sept. 12, 2018.

# **Defoliation Rating**

- 1 < 5%
- 2 6-25%
- 3 26-50%
- 4 >50%

#### **Treatments**

Control 3.0

Ele-Max NC 2.8

Rampart 2.0

Super Tin 4L 1.4

Abound 1.0

Enable 2F 1.0

Elast 400F 1.0

**Ziram 76F** 1.0























# **Control**

# **Ziram**













# Spores isolated from infected leaves were synomynous with:

- Brown leaf spot
  - Cercospora fusca
  - Sirosporium diffusum
  - Pestalotiopsis clavispora



# Summary

- Abound, Elast, Enable, and Ziram provided the best protection against defoliation.
- •Multiple chemical groups provide good control of brown spot, so a multi-chemical rotation can be developed as a management tool.
- Good scab resistance in a pecan variety is a management tool, not a stand alone solution.

#### **THANKS!**



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