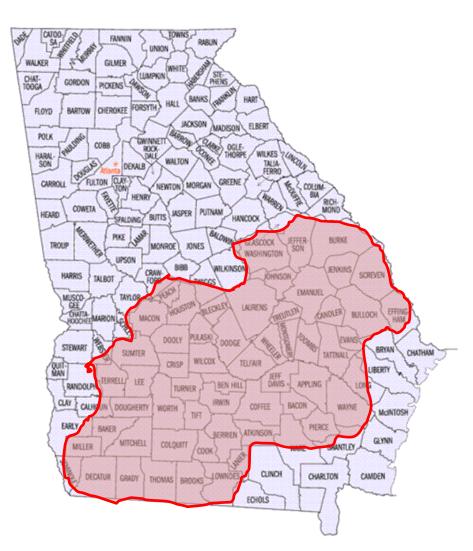


# What Happened to 2015 crop?

- Carry-over of scab inoculum
- Normal temp, wet spring
- Early budbreak
- Heavy scab pressure prior to June
- Good crop load
- Large Nut Size
- Heavy pressure from mites/black aphids late season
- Cloudy September
- Quality Issues



#### Oconee





- Exact cause still unknown
- Ruled out insects and disease
- Phys. Problem likely triggered by enviro. conditions at pollination or late water stage
- May be a result of how 'Oconee' handles certain stress factors

#### Green Shucks, Embryo Rot & Vivipary

- Environmentally induced problem
- Embryo rot and vivipary more severe on young and/or vigorous trees
  - Don't over-fertilize





# Pecan Irrigation Schedule Recommendations for Bearing Orchards

Month	% Full Capacity	Gallons/acre/day
April	17%	612-680
May	26%	936-1040
June	33%	1188-1320
July	40%	1440-1600
August	100%	3600-4000
Septembe	r 100%	3600-4000

<sup>\*</sup>If you receive 1" or more of rain from bud-break to the onset of kernel-filling, turn the system off for 3 days.

Sandy Soils=Use higher end of rate Clay Soils=Use lower end of rate

<sup>\*</sup>Throughout the kernel filling period, apply irrigation daily regardless of rain events up to 2". With a 2" rain during kernel filling, turn the irrigation off for 3 days.

# Poor Harvest Conditions October-November

Year	Precipitation	Rainy Days	Avg Temperature
2015	6.63	21	64.8
2014	8.75	12	59.9
2013	4.11	16	61.6
2012	2.84	18	60.9
1971-2000	5.61	N/A	62.7

3-5% rot on average, increasing later in season

# Leaf Scorch of Young Pecan Trees

- Primarily a problem of poor root establishment
- Limitations to root growth
  - Wet spring
  - Wet/Dry extremes
  - Poor soil
    - Water-logged
    - Planting immed. behind pine trees
    - Hard Pan/High water table
- Fertilization



## Fertilization of Young Trees

# Focus on P,K, Zn---not N!

Rate of 10-10-10/per tree

Year	April	June
1	0	0.5-1 lb
2	1-2 lbs	1-2 lbs
3	2-3 lbs	2-3 lbs
4	3-4 lbs	3-4 lbs

- Apply Zinc Sulfate at 1-3lb per tree for the 1<sup>st</sup> 3-4 yrs
- 2-3 sprays foliar Zn if deficiency symptoms show
- Mouse Ear Trees:
  - Apply Ni at rate of 1.5 qts/100 gallons

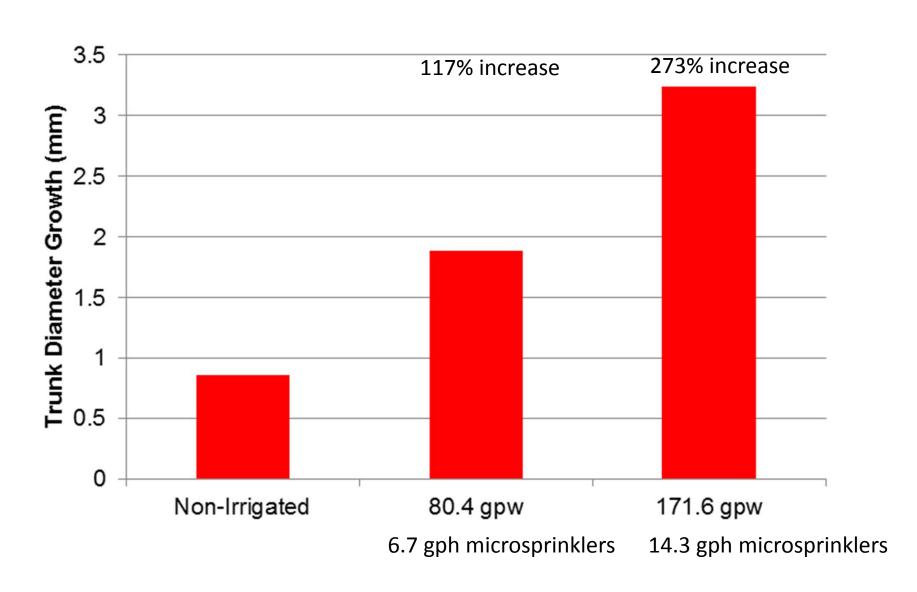
# If You Fertigate

#### **Amount of N/acre**

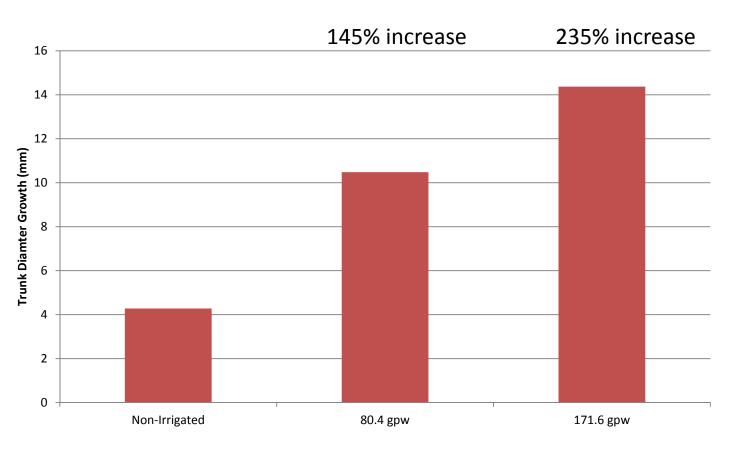
Year	April	May	June
1	0	0	5 lbs N
2-4	5 lbs	5 lbs	5 lbs

- Apply granular P,K, Zn over the tree row in March or April of years 1 and 2
  - -40 lbs P
  - 40 lbs K
  - 25 lbs Zn Sulfate

## Young Tree Irrigation---Year 1



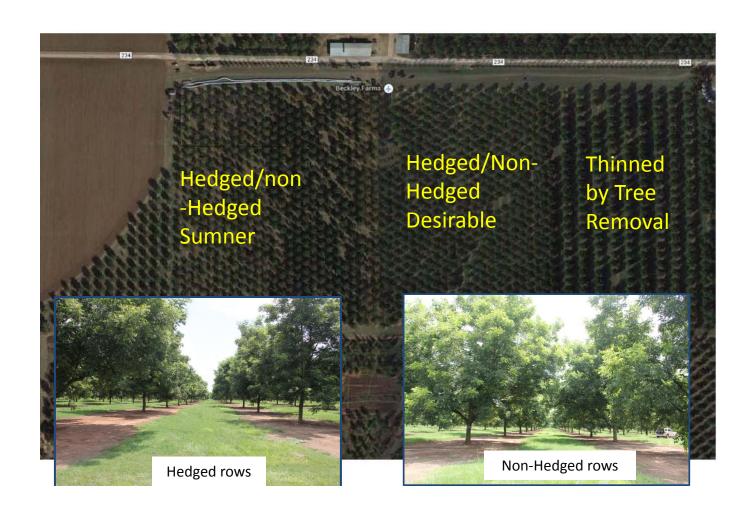
# Young Tree Irrigation---Year 2



6.7 gph microsprinklers 14.3 gph microsprinklers

#### Hedging Trial – Marshallville, GA

- Desirable trees 14 m (~46 ft) and hedged to 12-14 m (39-46 ft)
- o Planted 1996
- Hedged alternate rows one side March 2013, other side March 2014 (sampled trees hedged on West in 2013, East in 2014)



# HedgingTrial

