

Mature Pecan Tree Management



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1-800-ASK-UGA1

Nitrogen

- Apply 75-125 total lbs N
- Inject liquid N
 - 3 applications beginning in April (10 day intervals)
 - 1 application in June
 - 1 application in late August/early September if heavy crop
 - No more than 25 lbs N/acre/injection
- **Direct broadcast applications toward herbicide strip**
 - Base total acreage applied on width of spread, not on total size of orchard
 - Use rate of 75-125 lbs/acre on treated area only
- Eliminate late season applications of N with:
 - Poultry Litter Application in Feb/March or
 - Establishment of good clover stand for 3 yrs

Sandy Soils: Increase rates by 25% and use multiple applications

**Dry-Land /Neglected Orchards:
Split March/June**



Pecan Soil Fertilizer

Nutrient	Soil	Leaf	Decision
Phosphorus	<40 lbs/acre	----	Broadcast
Phosphorus	>40 lbs/acre	<0.12	Narrow Band
Phosphorus	>40 lbs/acre	>0.12	Do Not Apply
Potassium	<125 lbs/acre	----	Broadcast
Potassium	>125 lbs/acre	<1.1 %	Narrow Band
Potassium	>125 lbs/acre	>1.1%	Do Not Apply
Zinc	<15 lbs/acre	----	Broadcast
Zinc	>15 lbs/acre	<50 ppm	Inject Zn EDTA
Zinc	>15 lbs/acre	>50 ppm	Do Not Apply
Soil pH	>6.0	----	Do Not Apply

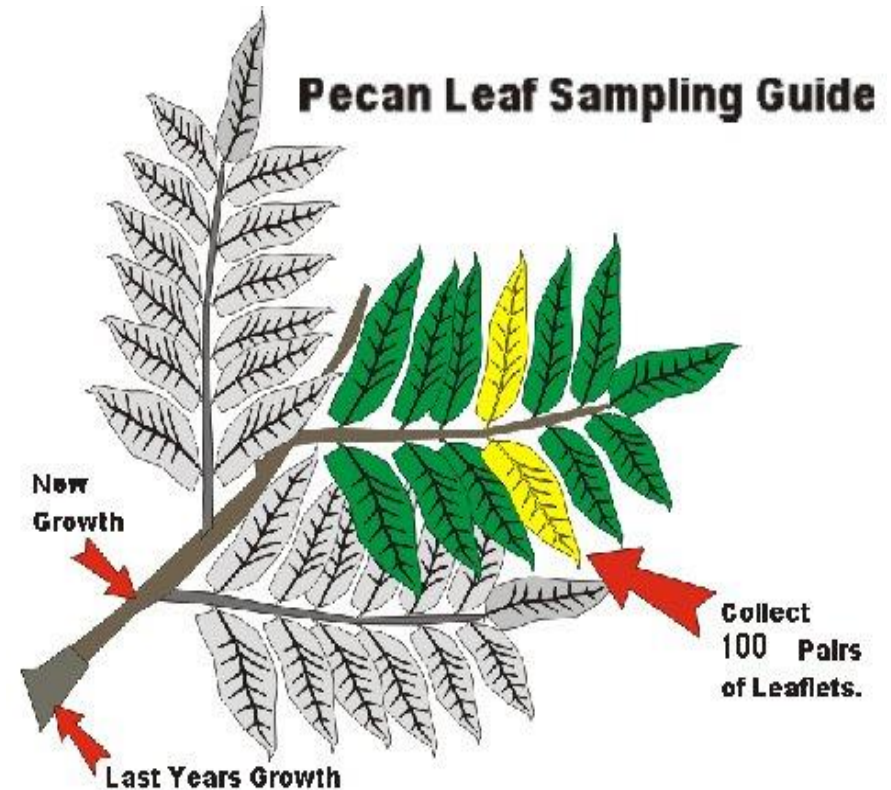


POTENTIAL SAVINGS OF \$101.80 at 2022 fert. prices



Leaf Sampling

- Sample trees between July 7th and August 7th.
- Use terminal shoots exposed to the sun.
- Collect leaflets from all sides of the tree.
- Avoid leaflets damaged by insects and diseases.



Pecan Irrigation Schedule

Recommendations for Bearing Orchards

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

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

*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.



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

Scab Susceptibility Groups

Low	Moderate	Mod/High	High
Avalon	Creek	Caddo	Byrd
Elliott	Kiowa	Cape Fear	Carroll
Excel	Oconee	Hoffman	Desirable
Kanza	Sumner	Schley	Morrill
Lakota	Zinner	Stuart	Pawnee
McMillan		Tanner	Treadwell
		Tom	
		Whiddon	

Low Scab Potential (0-3)

- 1) Phosphite ~ mid-April
or 11 + 3
- 2) Phosphite ~ mid-to-late May
or 11 + 3
- 3) 11 + 3 mix ~ mid-late June
or Miravis Top

Moderate Scab Potential (5-7)

- | | | |
|---------------------------|-------------|------------------|
| 1) Phosphite | ~ mid April | |
| 2) Phosphite OR 11+3 | ~ mid May | Pre-pollination |
| <hr/> | | |
| 3) Miravis Top | ~ mid June | Post-pollination |
| 4) Elast+Tin OR phosphite | ~ late June | |
| 5) Miravis Top | ~ mid July | |
| 6) Tin OR Elast+Tin | ~ late July | |

High Scab Potential (≥ 8)

1) phosphite

2) phosphite

3) 11 + 3 mix

Pre-pollination

4) Miravis Top + phosphite

Post-pollination

5) Elast + Tin

6) Miravis Top

7) Elast + Tin

8) Miravis Top



Example Herbicide Program for Pecan Orchards

Trees 3 Yrs and Up:

At budbreak:

Glufosinate *or* Paraquat + Alion (5 oz)*

July/August

Glyphosate + Glufosinate + Alion (5 oz)

Rotate in Alternate Years With:

At budbreak:

Glufosinate *or* Paraquat + Flumioxazen

July/August

Glyphosate + Glufosinate + Flumioxazen

September (if needed)

Paraquat

**After 1st season using Alion drop down to 3.5 oz rate*



Pecan Aphids

1. Don't use any broad spectrum insecticides
2. Ignore yellow aphids
3. Ignore black aphids before June

Sumner/Gloria Grande/Schley/Caddo

1. Apply imidacloprid via drip in early/mid June
OR Pro Gibb 3x, every 10 days, starting July
2. If black aphids flare up in 3-4 wks, apply Closer, Carbine, PQZ, Safina -- **ROTATE**
3. Use **Nexter** late season if needed for black aphids when mites build



Mites

- Mites are not usually a problem until around August/September
- THRESHOLD: When you ***start*** to see damage and there are 40-50 mites per leaflet, spray.
- CONTROL

Abamectin (label)

Acramite (24 oz)

Envidor (18 oz)

Nexter (7.5 – 17 oz)

Magister (36 oz)

Portal (2 pt)

