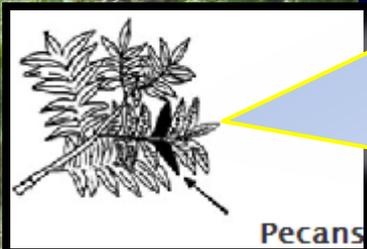


Area yield is about 2,300 lbs./ac.

- Sample at Midseason
- Sample midshoot leaflets/leaves
- Sample #: 25 – 60



Pecan Plant Tissue Analysis:

- N = 2.66% **Optimum:** Sufficiency Range: 2.49 – 2.8%
- P = 0.12% **Optimum:** Sufficiency Range: 0.11 – 0.3%
- K = 0.95% **Optimum:** Sufficiency Range: 0.74 - 1.25%
- S = 0.22% **Optimum:** Sufficiency Range: 0.19 - 0.4%
- Ca = 1.21% **Optimum:** Sufficiency Range: 0.89 – 1.5%
- Mg = 0.31% **Optimum:** Sufficiency Range: 0.29 - 0.6%
- Zn = 58.22 ppm **Optimum:** Sufficiency Range: 49 – 100 ppm
- Fe = 135 ppm **Optimum:** Sufficiency Range: 49 – 300 ppm
- Mn = 58.1 ppm **Low:** Sufficiency Range: 99 - 800 ppm
- Cu = 5.8 ppm **Low:** Sufficiency Range: 9 – 30 ppm
- B = 105.4 ppm **High:** Sufficiency Range: 29 – 45 ppm
- Na = 0.02% **Optimum:** Sufficiency Range: 0 – 0.1%

Soil Probe
↓

Water Quality Analysis

Pounds per Acre:

- Nitrate-N = 12.2
- Potassium = 89.5
- Sulfate-S = 490.0
- Calcium = 591.0
- Magnesium = 146.2
- Sodium = 592.0
- Chloride = 783.0
- Bicarbonate = 1,911.4
- Carbonate = 26.1
- Iron = 9.3
- Mn = 0.22
- B = 1.31

Total Salts = 5,640.2

ECiw = 0.81 mmhos/cm

SAR = 1.71

pH = 7.9

Conventional Irrigation (soil salinity typically concentrates about 1.5 times the water EC)

Soil Analysis:

- Organic Matter = 0.6% (**Low**)
- Nitrogen Mineralized = 12.0 lbs./ac.
- Nitrate-N = 8.55 lbs./ac. (**Low**)
- Phosphorus = 5.0 ppm (**Low**)
- Potassium = 122.0 ppm (**Low**)
- Sulfate-S = 20.7 ppm (**Adequate**)
- Calcium = 2,948.0 ppm (**High**)
- Magnesium = 187.0 ppm (**Low**)
- Zn = 0.4 ppm (**Low**)
- Iron = 4.6 ppm (**Low**)
- Mn = 4.2 ppm (**Low**)
- Cu = 0.6 ppm (**Adequate**)
- B = 0.4 ppm (**Low**)
- Sodium = 2.6% of total CEC (**good**)

Silty Clay

0 – 6" depth

ECe = 0.36 mmhos/cm (No problem with Salts)

Sodium is 2.6% of total CEC (Satisfactory)

pH = 8.7 (Problem with pH; i.e. nutrient availability)

Leaching Fraction (LF) = 0.3086/Fc^{1.702} (LF = 7.2%)

Fc = ECe(ct)/ECiw (i.e., ECe(ct) = 1.9 & ECiw = 0.81); Fc = 2.35