

Citrus Health Trial, 1

PACIFIC GRO
Seafood for the Soil™

At a citrus farm in the Rio Grande Valley, south Texas, we're addressing disease issues with a nutritional approach. Together with consultants Dr. Tracey Carillo and Brad Forkner, we are demonstrating that "It's all about nutrition".

This grove's trees are all expressing nutrient deficiencies, and there's citrus greening disease present. Yield is limited by the lack of *available nutrients*, and the trees are at risk of destruction by diseases like citrus greening.

Soil tests show optimal ranges of nutrients. But the problem is that nutrients are tied up, limited and not available to these plants.

The soil is out of balance, because of the lack of biology that make nutrients more available. Local ag retail companies have tried to resolve this with chemistry and have driven up the costs without any success.

Our agronomy team is demonstrating a nutritional approach on this orchard. I will write about this monthly through the winter and share what we learn and explain this journey to soil and plant health.

Action: Sap samples were taken — showing what the plant perceives. Sap results indicated very high Nitrate, which attracts disease and insects. And imbalances including very low Phos, very low Iron, very low Calcium, Sodium toxicity, Chloride toxicity, very low Silica.

Recommendations:

- ◆ High rate of Pacific Gro Sea Phos, to provide Nitrogen in soluble Amino Acid form, organic form of Phos, Calcium, and Silica, as well as food for the microbes and biostimulants (cytokinin and auxins) for root growth and reproduction.
- ◆ High rate of Purple Cow, a diverse microbial product that will increase the microbiome, which will be fed by Pacific Gro. The microbe community will solubilize more nutrients, and reduce soil borne diseases and insect pressure.
- ◆ Humate and potassium will help quiet the sodium.
- ◆ Complex micro nutrient package
- ◆ Nano technology for better efficiency of Ca, Zn, Micros.

Mark Dodd
Pacific Gro Agronomist



Are you listening to your crop?



Valencia Orange leaves showing severe nutrient deficiency.