



To assist farmers and ranchers as they regenerate the land in a profitable manner





Soil Health Principles



Know Your Context



Cover The Soil



Minimize Soil Disturbance



Increase Diversity



Maintain Continuous Living Plants/ Roots



Integrate Livestock

















Increase diversity

Maintain continuous living roots

Integrate livestock



Regenerative Management of Noble Orchards



Cover The Soil

- Planting cover crops
- Maintaining ground cover



Minimize Soil Disturbance

No application of herbicides



Increase Diversity

- No application of pesticides
- Installation of bat houses
- Plant diversity → Attracts beneficials



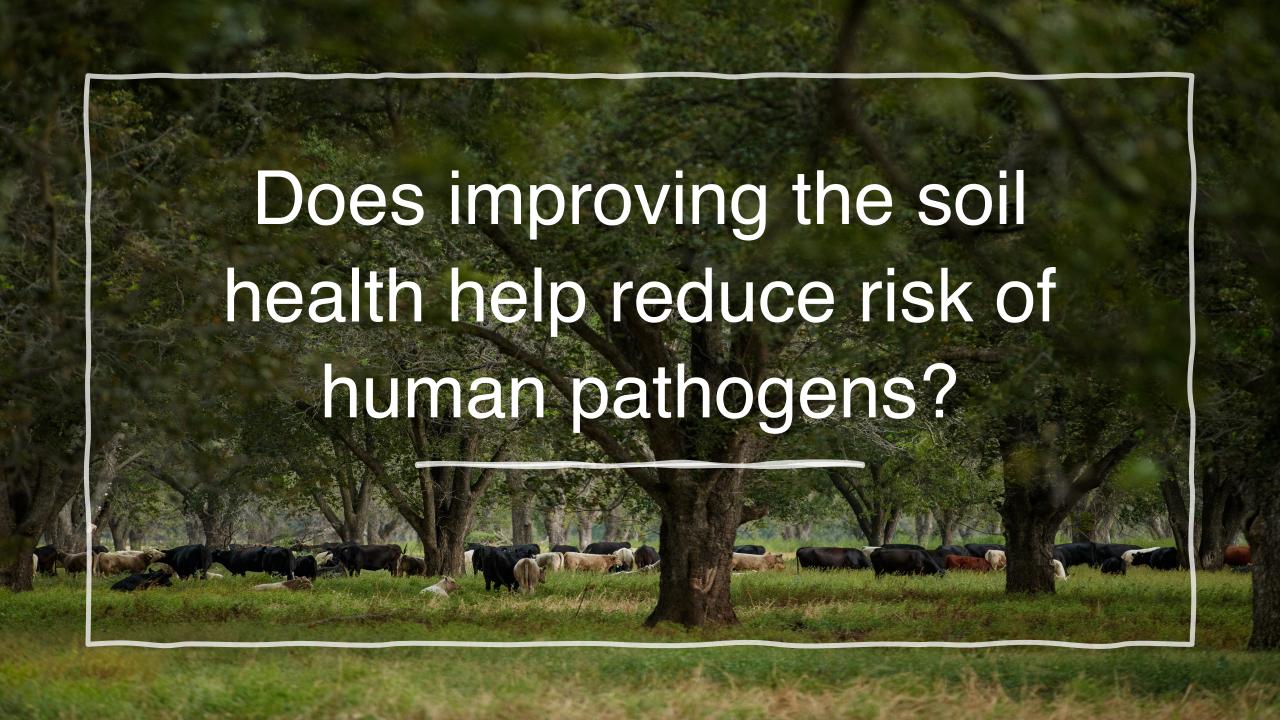
Maintain Continuous Living Plants/Roots

Cover crops and perennials



Integrate Livestock

Multispecies AMP grazing



Does improving the soil health increase health benefits in pecans?

Does improving the soil health reduce insect and disease damage?

Monitoring the Transition to Regenerative Agriculture on Noble Farms

- Soil health
- AMP grazing impacts on FSMA rules
- Tree health
- Orchard Scorecards
- Insect and Disease Reports
- Monitor insect pests
- Economic evaluation
- Health benefits of regenerative pecans



PECAN RESEARCH STRATEGY

Managing from the ground up...

Can managing for soil health improve overall orchard health and profitability?

PROJECT GOALS

Better soil with stronger profit

The aim of this research strategy is to assess levels of soil health, ecosystem resiliency and increased profit per acre across a continuum of orchard management strategies.



Monitoring orchard health

Soil analysis: Haney & PLFA FSMA livestock pathogens Leaf analysis Orchard scorecards Nut nutrient value Bat guano analysis Economics

PECAN RESEARCH STRATEGY

Number of Participants

20+ Producers

Soil Health Evaluated for **6 Years**

PROJECT BY NUMBERS 2023

Number of Participants

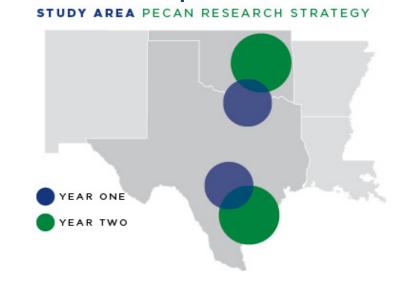
11

Number of Blocks

50

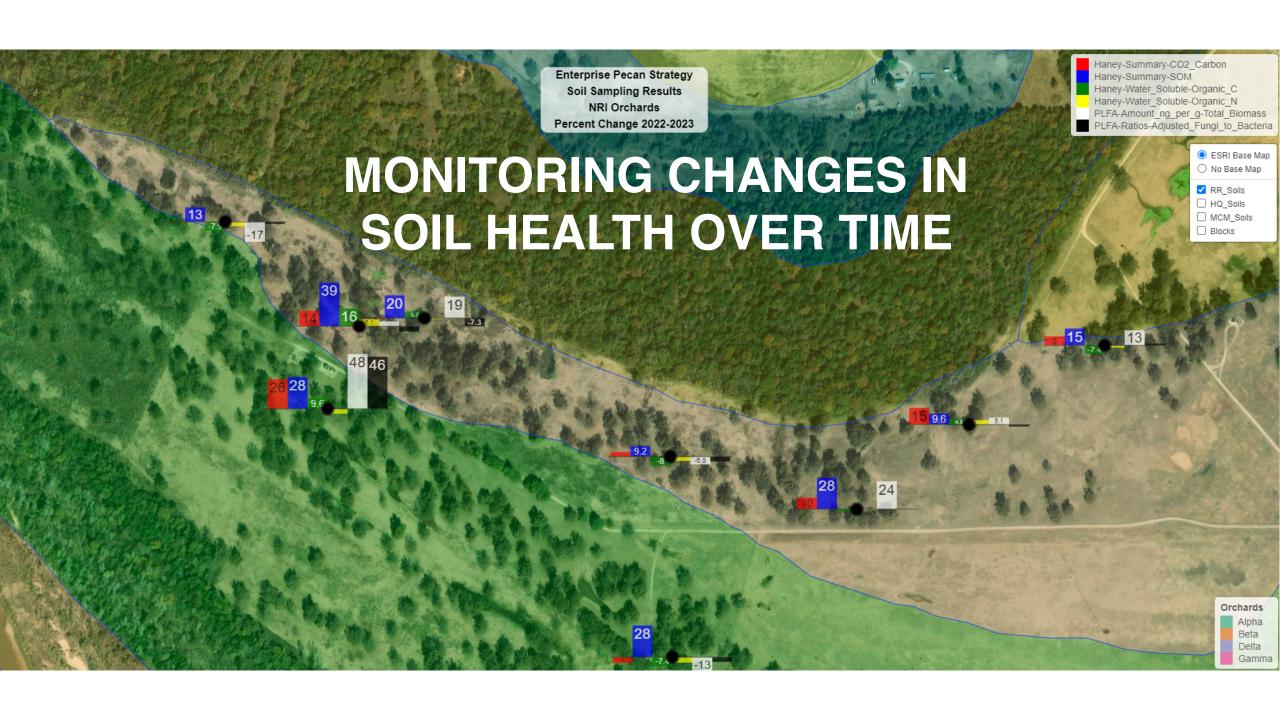
Number of Trees

186

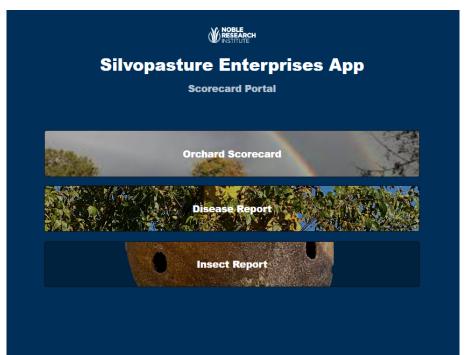
















www.noble.org/pecan-strategy-research/

Orchard Scorecard Disease Report Insect Report



NUT NUTRIENT VALUE



"Should not our ultimate goal be profitable production, consumer satisfaction, and long-term ecological well-being using the least inputs? Said another way, how far can this be taken with increasing reliance on natural processes?"

Dennis Perz Georgetown Pecan Company











Research Team











Questions?

Come see us at our booth!