

# JRH Grain Farms

## Russell Hedrick - Hickory, NC

Russell is co-owner of Soil Regen and a leading voice in the regenerative farming movement. This past season he harvested 460 bpa of corn, an American dryland record, and used EnSoil Algae™. He is raising non-GMO corn and non-GMO soybean. Russell is in year three of application studies with EnSoil Algae™.



Russell Hedrick spraying EnSoil Algae™ on his soybeans.

“EnSoil Algae™ has been an enhancer for our farm. It has enhanced our soil biology, foliar spray uptakes, optimized plant nutrient uptake, energy value, stress adaptation, plant health, and we have seen consistent yield increases versus the check strips. The ROI is there to use EnSoil Algae™ across all of our acres.”

### Roots to Shoots Trial 2024



Sampled at V4-V6 via Haney test and Rhize Bio Metagenomics test	Nitrogen Fixation	Phosphorus Cycling	Soil OM (%LOI)	MAC%	Soil Resp (ppm CO2-C)
Untreated	31.1	36.3	5.3	123.5	124.9
Treated	43.9	39.2	6.0	139.6	132.2

(2023) Russell's EnSoil Algae™-treated beans @ 1359 seeds/ lb, compared to 2841 seeds/lb (with his normal fertility program) and 1736 seeds/lb with his deep injection fertility program. (right)



"The farm average was a difference of 2.1% in moisture content. EnSoil Algae™ delivered a yield bump of 6-8 bushels ('22) when added to a late season fungicide pass compared to fields that received the fungicide without EnSoil Algae™. Overall 90% rate of profitability based on yield. Farm average was 12.5 bpa gain. Largest gain was a 17 bpa in a field where EnSoil Algae™ was applied in furrow at planting and twice more over the top in season."



'22 early season untreated on left, treated on right



'22 mid Season untreated with EnSoil Algae™



'22 mid Season treated with EnSoil Algae™

**'22 Feedback Corn:** "Exceptional growth, plant health, darker green. Plant growth was accelerated by 2-3 leaves within the first 2 weeks. Ear weight has been 1-3 ounces heavier in density."

**'22 Feedback Soybeans:** "More retained pods per plant on 3' row measurements ranging 5-8%. Minimal disease pressure. Plants sprayed with algae haven't had noticeable frog eye leaf spot or rust like their untreated counterparts. We treated 5 fields. In every field EnSoil Algae™ had a meaningful impact on yield. In addition, there was a significant dry down effect and great standability."