

In our organic wheat trial in central valley California, Pacific Gro is helping the farm overcome challenges with high sodium soil. The next fertilizer application has inputs indicated by sap analysis. We'll report more as the season goes on.



Trial structure: 5 test blocks, 4 acres each. All 5 blocks use poultry litter as the core fertility input; 4 of the blocks also have Pacific Gro, and 2 of these also include biologicals, from SGS, Tainio and Humagro.

The block with only poultry litter shows nutrient deficiency that is yield limiting.

The other 4 areas are healthier, but there are still nutrient deficiencies due to the high amount of sodium in the soils. Leaf samples were sent to Apical labs for sap analysis. www.apical-ag.com and recommendations were made.

Block 5, poultry litter only

Visible signs of Zinc deficiency and Ca deficiency. Weak plants, some were not headed out yet.



Block 3, Pacific Gro plus other biologicals

There is less nutrient deficiency.

High Sodium soils require a long-term plan to overcome. Increasing soil biology is the key to improve soil health and plant health. Pacific Gro supports this, when used with microbial products. It feeds beneficial fungi and provides organic plant-available calcium. This program makes more nutrients available from the poultry litter, and also those present in the soil. Ca and P were more present, but still more is needed to offset the high sodium. We recommend GSR Calcium with Pacific Gro and other biologics.



Recommendation from sap analysis:

Block 3: add Ca, Mn, Si, Zn, Mo

Block 5: add maximum rate of Ca, and Mn, Si, Fe, Zn, Ni