ROOTERRA TRIAL ON RUSSET BURBANK POTATOES

SUMMARY

Nutrient TECH research & development contracted a replicated trial near Burley, Idaho with Russet Burbank potatoes. Treatments compared foliar spray application rates and timings for yield increases.

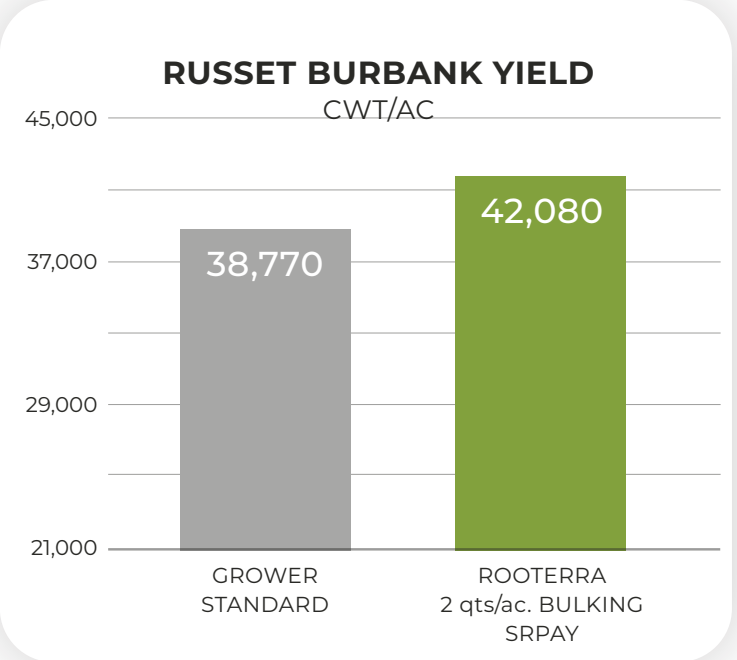
Key Takeaway: Foliar application of ROOTERRA increased potato yields without a loss of tuber size by increasing size of smaller potatoes before harvest.

METHODS

A comparison of 1 or 2 applications of ROOTERRA at 2 or 4 quarts per acre versus grower standard practices were made at hooking and later timings thereafter. The specific treatment timings were chosen by the researcher after years of experimental experience. ROOTERRA was applied with surfactant in a 30 gpa final volume. Plot areas were hand harvested and separated into broad size categories. Plot weights were analyzed statistically and results from the most cost-effective treatment combination is reported.

RESULTS

In the graph below, it can be observed that 1 application of 1/2 gallon per acre of ROOTERRA during bulking increased average potato yields by 3,300 pounds per acre. Neither spraying higher rates nor other application timings increased economic benefits substantially under these experimental conditions. ROOTERRA positively influenced crop growth processes resulting in a robust crop response which contributed to increased productivity.



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FIELD BOOST ZINC TRIAL ON RUSSET BURBANK POTATOES

SUMMARY

A Nutrien Crop Advisor conducted a comparison trial near Rexburg, ID in a commercial potato field. Comparing the grower standard dry fertilizer blend to Field Boost zinc coating all of the fertilizer granules in the blend..

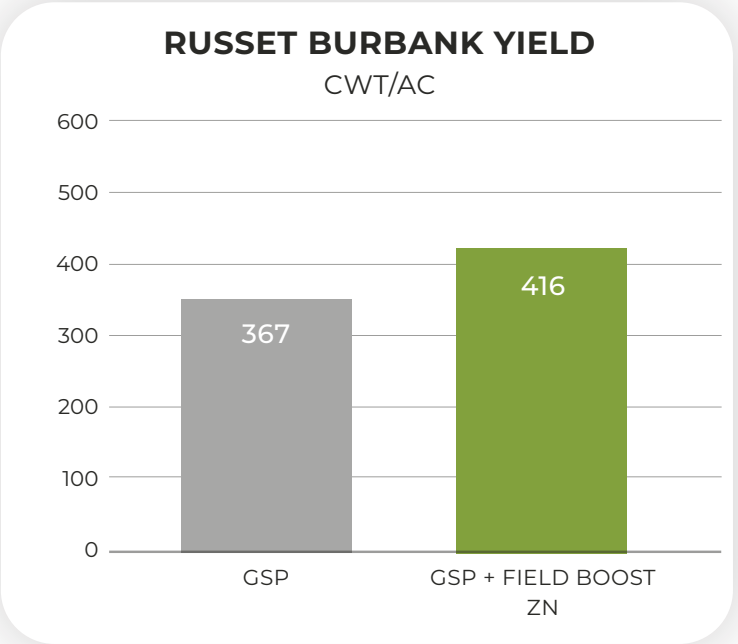
Key Takeaway: Application of Field Boost Zinc increased potato yields through greater zinc availability and uptake.

METHODS

A comparison of a small addition of added zinc (1.3 lbs/ac) from Field Boost was tested in a field with "adequate zinc" by laboratory soil test. The grower standard was an N-P-K blend. Field Boost Zinc 50 was applied commercially to the same fertilizer blend at 0.2% Zinc. Field Boost was used instead of the water commonly used with the impregnated herbicide at ½ gallon per ton. 691 lbs blend per acre was applied to the field. Soil and leaf samples were taken periodically in-season to determine zinc fertilizer effectiveness.

RESULTS

In the graph below, it can be observed that Field Boost Zinc increased potato yield about 49 cwt per acre. This is likely a growth difference from the improved zinc uptake resulting from the great number of root contact points obtained by coating 691 lbs fertilizer per acre. A higher soil zinc level lasted season long, verifying the efficacy of our formulation. Another way to state Field Boost's zinc supplying ability is higher yields with zinc application when no response is expected shows superior zinc nutrient use efficiency .



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