

Soybean (Glycine max)

Applications of Nutrisol 10% Calcium and Impact F
Yield Increase

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Nutrisol 10% Calcium applied to Soybeans with and without Impact F for Increased Yields

In 2013, a demonstration plot was established to evaluate soybean yields when Nutrisol 10% Calcium was applied alone and in combination with Impact F.

Calcium is an important nutrient in soybean growth and development, particularly in sandier soils. Calcium deficiencies occur when there is very little root activity and water is limited. When this occurs foliar applications can be used to deliver proper amounts of calcium needed by the soybean plant. Calcium is one of the top six (6) important macronutrients including N, P, K, Mg and S and is needed by soybeans for cell wall development, especially the rigidity of the cell wall. Soybeans also need calcium for enzyme activity, metabolism, and for nitrate (a useable form of nitrogen) uptake.

NutriSol 10% Calcium is a formulation designed for use in soil and foliar applications on crops requiring calcium. It may be applied in foliar applications to growing crops alone or with pesticide,s and may also be applied directly to soil alone or with pesticides or herbicides.

Impact F is a foliar-applied yield stimulant. It is completely available to the plant, and it is absorbed by the leaf surface and is systemically distributed throughout the plant. The resulting action can produce a substantial increase in crop production and greatly enhance crop quality.

The trial was located in Lenoir County near Kinston, North Carolina. Prior to the application of Nutrisol 10% Calcium, the entire field was treated for Kudzu bugs, and an application Micro 581 was made at the V6 growth stage. Nutrisol 10% Calcium (with and without Impact F) applications were made on August 6th, 2013 while soybeans were at the R1 growth stage. Treatments were applied at 20 GPA. The soybean variety was Asgrow 6732 RR2Y. Also, at R1 both areas received a second kudzu bug treatment and a fungicide + Syntact spray adjuvant. Treatments were harvested on November 29th, 2013. The soil type was a Pamlico soil.

Treatment	Yield @ 13%
Nutrisol 10% Calcium 2 qt/A	47.02bu
Nutrisol 10% Calcium 1 qt/A + 1qt/A Impact	53.28bu

Based on the results of this demonstration plot, the addition of Impact F aided in the uptake of calcium resulting in a 6.26 bu or 13% increase in soybean yields.

NUTRISOL 10% CALCIUM, IMPACT, SYNTACT and MICRO 581 are products of Coastal AgroBusiness, 3702 Evans Street, Greenville NC 27834.