



Foliar Applications on 15" Row Irrigated Soybeans (18-516)

Experiment Info:

Planted:	5/24/2018
Harvest:	10/22/2018
Yield Goal:	60 bu/A
Target Fert.:	
Variety:	21LH02
Population:	150,000
Row Width:	15"
Prev. Crop:	Corn
Plot Size:	15 x 300
Replications:	3

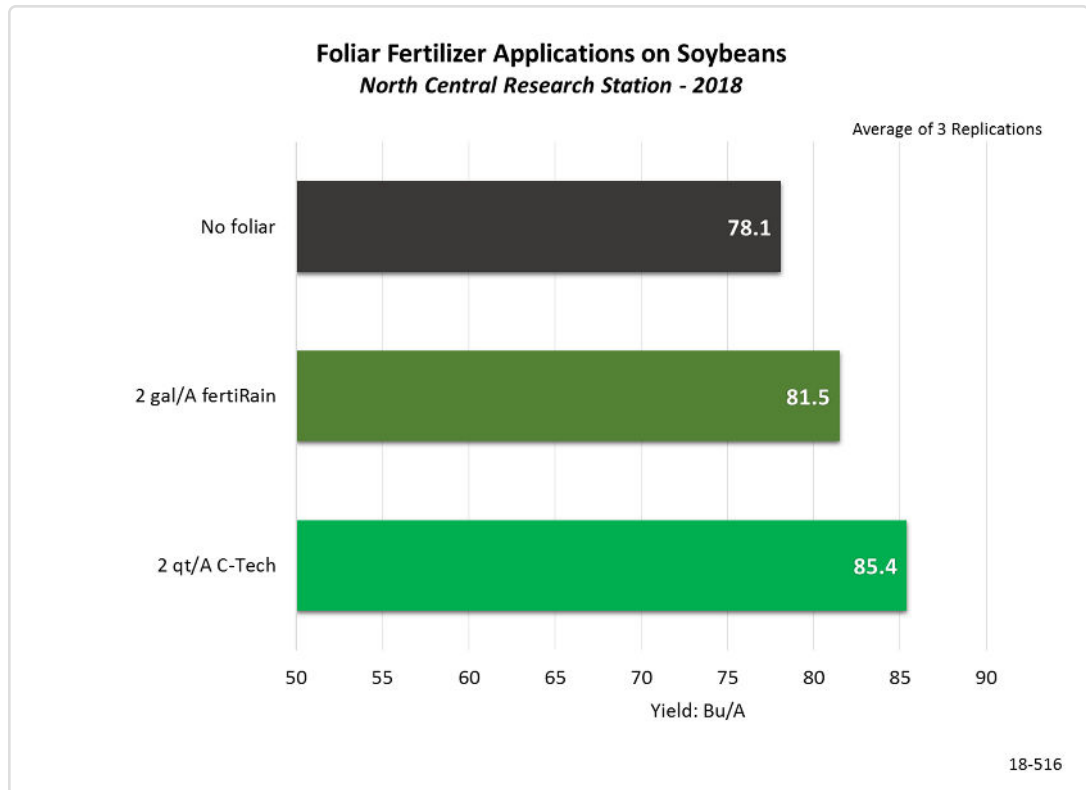
Soil Test Values (ppm):

pH:	7.1
CEC:	7.8
%OM:	1.5
Bray P1:	12
Bicarb P:	5
K:	56
S:	15
%K:	1.8
%Mg:	25.2
%Ca:	71.6
%H:	0
Zn:	.8
Mn:	5
B:	.5

Objective:

To evaluate the effects on yield of using FertiRain or PrimAgro C-Tech to foliar feed soybeans planted in 15" rows.

FertiRain has been and is an excellent complete foliar nutrition product for many crops. The addition of PrimAgro C-Tech to the AgroLiquid line and the experimental tests that have been conducted have shown some very good results when used as a foliar. C-Tech, originally designed with a soil focus, contains organic matter, live strains of beneficial fungi and bacteria to promote biological activity and help increase overall plant health. Testing at the North Central Research Station using all products in multiple applications methods is routinely conducted and the foliar activity of this product encouraged additional research. This experiment was designed to further the testing of C-Tech as a foliar and paired against FertiRain for its consistent foliar advantages. Rates of FertiRain were 2 gal/A and just 2 qt/A of C-Tech was used with each being mixed with water to give a 10 gal/A applied rate. Both products were applied with Hypro Guardian Air Twin nozzles on 15" boom spacing. Applications were made on July 5th to soybeans in the growth stage R1 at 66 degrees Fahrenheit and 81% relative humidity.



Conclusions:

- A single application of 2 qt/A of AgroLiquid PrimAgro C-Tech resulted in a significant yield increase of 7.3 bu/A over the no foliar treatment. This result and others warrant the additional consideration of C-Tech as a foliar applied product to achieve higher yields. The biological components of C-Tech have been shown in other university research to assist plants in disease defenses which may contribute to increased yields.
- C-Tech, which has no nutrient analysis, yielded higher than FertiRain which contains nutrients. FertiRain had a modest yield increase and perhaps a combination of nutrients plus organic and microbes would result in higher yield.