



# Foliar Applications of ferti-Rain and Headline® SC Fungicide on Tasseling Corn ( 16-704 )

## Experiment Info:

Planted:	5/1/2016
Harvest:	10/25/2016
Yield Goal:	175 bu/A
Target Fert.:	193-60-87
Variety:	Pioneer 0157
Population:	33,000
Row Width:	30"
Prev. Crop:	soybeans
Plot Size:	15 x 265
Replications:	4
FOL (VT)	7/28/2016

## Soil Test Values (ppm):

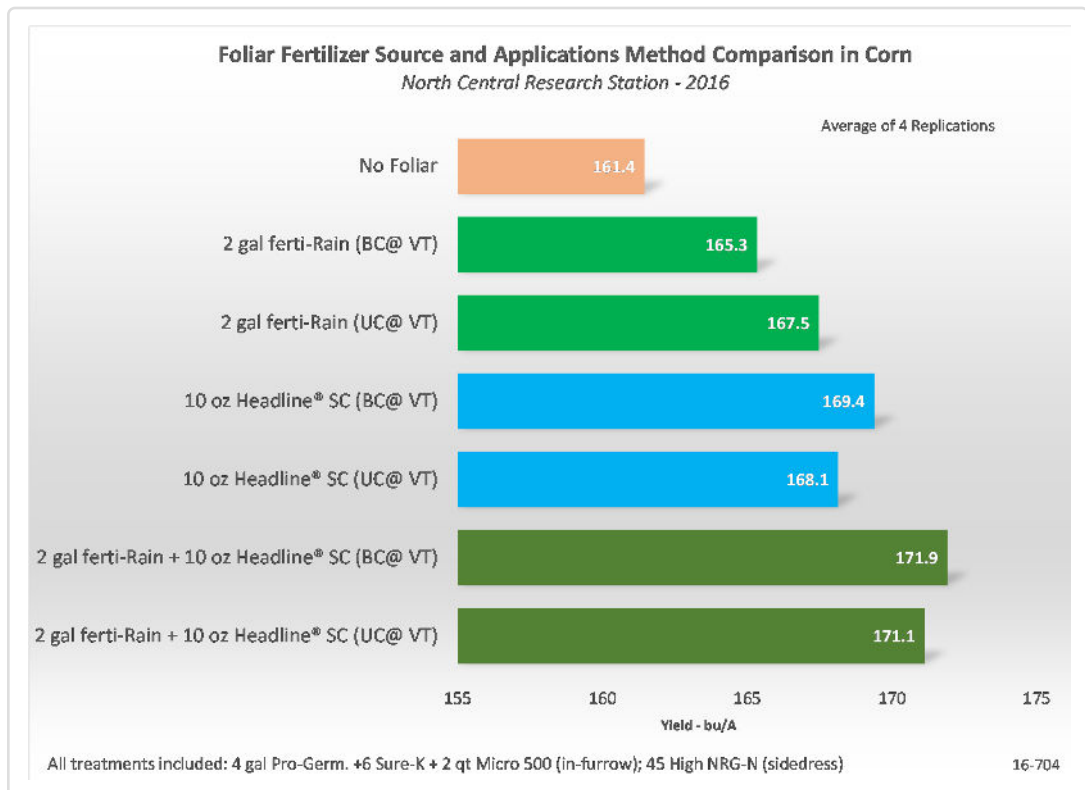
pH:	6.3
CEC:	14.9
%OM:	2.2
Bray P1:	16
Bicarb P:	-
K:	101
S:	11
%K:	1.7
%Mg:	16.9
%Ca:	70.2
%H:	10.8
Zn:	1.2
Mn:	6
B:	0.6

## Objective:

To determine yield benefits of foliar fertilizer and fungicide applications utilizing different application tools in corn.

Combining applications of fertilizer with late season fungicide treatments saves application costs. This year the NCRS expanded its foliar application testing on corn to include three treatments, evaluating each component of the complete foliar program. Treatments included: (1) 2 gal/A ferti-Rain, (2) 10 oz Headline fungicide and (3) 2 gal/A ferti-Rain with 10 oz/A Headline fungicide. All three treatments were tested on the two different foliar application tools UnderCover (UC) and broadcast (BC) at a total spray volume of 10 gal/A on tasseling corn.

The UnderCover from 360 Yield Center has 3 nozzles point in different directions and is placed within the crop canopy, providing more coverage of the crop. The broadcast is applied over the top of the crop, with less penetration into the canopy. Yield results appear below.



LSD(0.2) 4.7, CV: 4.5%

## Conclusions:

- All fertilizer treatments increased corn yield over the no foliar check.
- With both foliar application methods there was a nice stair step response to the three foliar applications. Utilizing the broadcast application the addition of ferti-Rain added nearly 4 bu/A, Headline alone added 8 bu/A and the combination provided the highest yield adding over 10 bu/A. Using 360 Yield Center's UnderCover, ferti-Rain alone added over 6 bu/A, Headline added nearly 7 bu/A and the combination of the two again provided top yield adding nearly 10 bu/A.
- In this trial, there was no trend proving one application method to provide more yield than the other, both applications yielded similar to one another.