

## Foliar Fertilizer on Black Turtle Beans

### EXPERIMENT INFO

Planted: 06/10/2016

Harvested: 09/22/2016

Variety: Shania

Population: 110,000 seeds/ac

Row Width: 30"

Prev. Crop: Corn

Plot Size: 30' x 1,300'

Replications: 3

Starter Fertilizer: 2 GPA Pro-Germ + 3 GPA Sure-K + 1 L/ac Micro 500

Foliar Application: 08/07/2016

### SOIL DATA

pH: min: 5.4; max: 7.4

CEC: min: 4.5; max: 9.4

% OM: min: 0.8; max: 2.3

% P: min: 9; max: 19

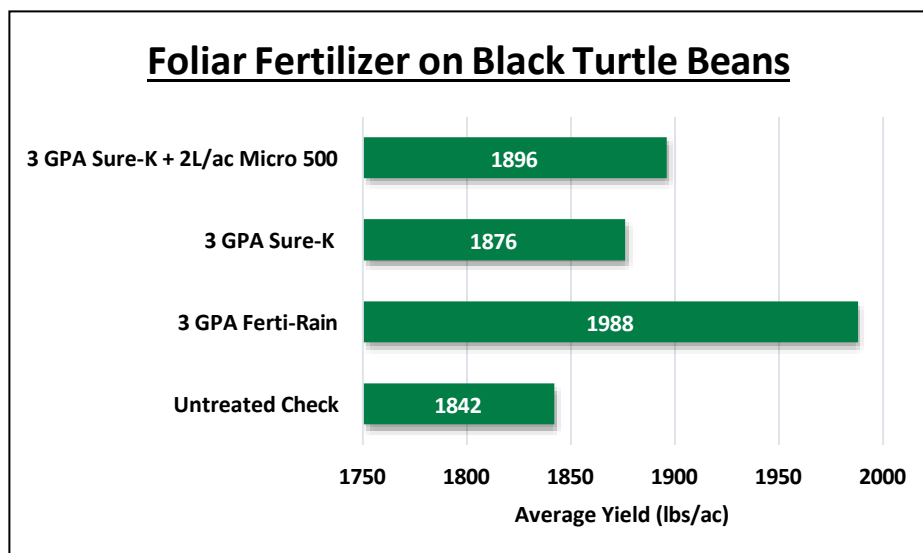
% K: min: 1.6; max: 3.7

% Mg: min: 5.6; max: 17.2

% Ca: min: 24.6; max: 77.3

### Objective:

Most plants, including white beans, can absorb nutrients through their leaves (Stevens and Belden, 2005). Therefore, foliar feeding is an effective way to quickly increase the nutrient content of the plant tissue (Stevens and Belden, 2005). This trial aims to explore the benefits of supplemental foliar feeding at the early flowering stage, in addition to the starter fertilizer program.



### Conclusions:

3 GPA Ferti-Rain provided the strongest yield results in this trial. There was a 146 pound yield advantage per acre over the untreated check.

The foliar program of 3 GPA Sure-K + 2 L/ac Micro 500 provided a 54 pound yield advantage per acre over the untreated check.

A simple foliar program of 3 GPA of Sure-K provided only a small yield increase (34 lbs/ac) over the untreated check.

In previous foliar programs, we have consistently seen a yield increase with the application of Ferti-Rain. This fertilizer is an excellent choice for a bean foliar feeding program.