

# Mid-Michigan Agronomy

Third Party Validation



**Objective:** To evaluate the effect of Growthful on the growth and yield of Potatoes, Soybean, Sugar Beets, and Tomatoes.

**Application:** Growthful was applied weekly, on a 7-day interval, and was evaluated based upon yield affects. Different soil types were used for each crop: for Potato – Boyer Sandy Loam, Soybean – Silty Clay Loam, Sugar Beet – Bay City Sugar Beet Loam, and Tomato – Boyer Sandy Loam.

**Note:** Aqueus products can be applied along with other crop protection and nutrient input that allows farmers not to change their crop care protocols.

**Date:** April – October 2017

**Agency:** Mid-Michigan Agronomy, Michigan

**Crops:** Potato, Soybean, Sugar Beet, Tomato

**About Mid-Michigan Agronomy** – Since 2005, Mid-Michigan Agronomy (MMA) have performed research on multiple crops in Michigan including Potatoes, Soybeans, Corn, Sugar Beets, Tomatoes, Wheat, Cucumber, Pepper and Blueberry. MMA tests plant health and yield using a variety of scientific and industry accepted standards.

## RESULTS

### POTATO

14 – 21%

1. Yield increases, by Growthful applications, ranged from 12% to 14%
2. The addition of Bravo fungicide, to Growthful applications increased yields ranged from 12% to 21% compared to untreated control, primarily due to the improved plant health.
3. The total number of tubers increased

### SOYBEAN

11 – 22%

1. Yield increases ranged from 11 to 21% depending on various combinations of crop protection inputs
2. Increase in the number of pods
3. Plant showed overall improvement including plant health and reduction in plant stress

### SUGAR BEET

36 – 62%

1. Yield increases ranged from 36 to 62%
2. When Growthful was combined with Eminent, commercial control of plant health was improved realizing larger yields.
3. The tank-mix of Growthful and Eminent afforded the best control on plant health but did not produce the highest yielding treatments. This suggests that Growthful alone is causing yield increases with reduced plant stress

### TOMATO

28 – 39%

1. Yield increases ranged from 28 to 39%
2. The addition of Bravo fungicide to Growthful helped to increase yields primarily by managing plant health and contributes reducing plant stress management

## RESULTS SUMMARY

The addition of Growthful to regular crop treatments significantly increases crops yields and positive attributes assisting in plant stress management. In all cases, considerable improvements were recorded.

