



2012 AgroVantage Plot Results

Location: Roodhouse, IL

Corn Test Plot

Amplify-D Seed Treatment

	Check	Amplify-D
Yield, BPA	62.8 bpa	69.7 bpa
Cost/Acre		\$2.42
Yield Increase		6.9 bpa
Increase Profits/Acre		\$45.88

Amplify-D is a seed germination aid based upon the concept of providing an extra source of adenosine mono-phosphate as a seed treatment. Research has shown that maintaining adequate levels of this critical bio-chemical in the germinating seed enhances the rates of germination and emergence. The end result, better plant stands and fewer low vigor plants that fail to produce grain. In this study, yields were relatively low due to extreme drought, but Amplify produced a 10 percent yield advantage versus the check resulting in an extra \$45.00 income on a \$2.42 investment.

Wex Multi-Purpose Wetting Agent

	Check	Wex – 1 quart/acre
Yield, BPA	62.8 bpa	90.6 bpa
Cost/Acre		\$4.10
Yield Increase		27.8 bpa
Increase Profits/Acre		\$190.50

WEX Multi-Purpose Wetting Agent is used for two primary purposes; as an adjuvant to optimize pesticide spray applications and as a soil amendment to enhance crop root development which can lead to higher yields and quality. In this study the soil amendment aspect of the product was tested. Typical yield response to this treatment is in the 4-5 BPA range, in this case an exceptionally large response was measured; 27.8 BPA! Extreme drought plagued Illinois this growing season; the WEX produced yield increase was likely due to a larger root mass and the plants ability to more effectively mine available moisture.

Feast Starter Fertilizer

	Check	Feast 3-18-18 – In-row – 5 gallons
Yield, BPA	62.8 bpa	88.2 bpa
Cost/Acre		\$39.50
Yield Increase		25.4 bpa
Increase Profits/Acre		\$138.30

The Feast starter fertilizer products provide two primary benefits. Number one, they are extremely efficient and effective sources for the essential macro-nutrients N-P-K, reducing the need for application of less efficient broadcast applications. Number two, they are made from readily available plant food sources that produce rapid early growth and high vigor plants that are high yielding. In this study the 25.4 bushels of additional grain produced about \$138.00 additional dollars revenue for an investment of about \$39.50. Apparently the starter fertilizer fueled a fast start that helped the crop overcome some of the challenges associated with extreme drought.

AgroVantage System Plus Foliar Feeding

	Check	AgroVantage System – In-row - Feast 3-18-18 5 gallons, Side-Kick 1 gallon, Feast Zinc 1 pint	AgroVantage System plus foliar feeding In-row – Feast 3-18-18 5 gallons, Side-Kick 1 gallon, Feast Zinc 1 pint Foliar – Feast 3-18-18 2 gallons, Feast Boron ½ pint, Feast Zinc ½ pint, Foliar X-CYTO 10 oz., Rainfast 1 oz./100 gallons
Yield, BPA	62.8 bpa	79.8 bpa	105.2 bpa
Cost/Acre		\$56.25	\$86.55
Yield Increase		17 bpa	42.4 bpa
Increase Profits/Acre		\$62.75	\$210.25

The AgroVantage System is a combination of products and services designed to produce optimum yields efficiently. Two concepts, in-row starter application of plant food and foliar application of plant food are evaluated in this study. The AgroVantage System utilizes soil analysis along with crop and yield goal information in determining the rate and composition of plant food to apply in-row. The rate and composition of plant food applied in foliar applications is typically based upon tissue analysis.

The in-row treatment in this study produced an extra seventeen bushels and the foliar treatment an additional twenty-five bushels. There is little doubt that moisture was the primary limiting factor in this plot location this year as extreme drought conditions existed until late in the growing season. The in-row and foliar applications of high quality plant enhanced the crops ability to thrive with limited moisture!