



2013 AgroVantage Plot Results

Location: Lewisburg, PA

Corn Test Plot

Amplify[®]-D Seed Treatment

	Check	Amplify-D
Yield, BPA	168.5	188.4
Yield Advantage		+ 19.4 bpa

Amplify-D is a patented formula, developed by the University of Arizona that enhances the supply of AMP (Adenosine monophosphate) which is utilized by seeds to fuel growth. On this plot the Amplify-D gave an almost unbelievable 19.4 bpa increase in yield!

Guardian[®] Slow Release Nitrogen Fertilizer Additive

	Check	Guardian DL 31-0-0 1 quart
Yield, BPA	165.9	168.5
Yield Advantage		+ 2.9 bpa

Guardian is a nitrogen fertilizer additive that has two primary modes of action, both as a source of slowly available nitrogen and as a nitrogen stabilizer. In this plot the Guardian helped increase the yield by 2.9 bpa.

Feast® Fertilizer, Side-Kick®, Guardian® and Amplify®

	Nitrogen Only	Feast Fertilizer Feast 3-18-18 3 gal. Side-Kick 1 gal. Guardian DL 1 quart w/UAN Amplify-D Sugar 1 lb.
Yield, BPA	166	182
Yield Advantage		+ 16 bpa

Using a combination of high quality fertilizer Feast 3-18-18 and Side-Kick, seed treatment booster Amplify-D, a University proven nitrogen stabilizer Guardian-DL and a carbon source such as sugar, gave this plot a 16 bpa increase.

Feast® Side-Kick fertilizer

	Check	Feast Side-Kick 1 gpa with Nitrogen
Yield, BPA	189.3	200.9
Yield Advantage		+ 11.6 bpa

Corn cannot use all the Nitrogen available in the soil if there isn't sufficient amount of Sulfur available also. The ideal ratio of Nitrogen to Sulfur is 10:1. In this plot the addition of Feast Side-Kick (0-0-25-17S) with the Nitrogen gave an additional 11.6 bushels per acre!

Feast® Chelated Manganese

	Check	Feast Chelated Manganese – 0.5 pint
Yield, BPA	177.6	184.4
Yield Advantage		+ 6.8 bpa

By doing a soil test on this plot, they were able to determine that an additional .5 pints of Manganese was needed and it produced an additional 6.8 bpa! An approximate 10 to 1 return on cost!

Soil X-CYTO™ Plant Growth Regulator

	Check	Soil X-CYTO 10 oz. per acre
Yield, BPA	184.4	189.3
Yield Advantage		+ 4.9 bpa

Soil X-Cyto is a plant hormone that promotes cell division and cell growth in the plant, and can have great returns when added to a high quality fertilizer program. The 4.9 bushel increase is a ROI of about 3:1!

Alfalfa & Grass Hay – New Seeding

Foliar Feeding Feast Fertilizer

	Check	Feast Foliar Program Per acre Feast 3-18-18 3 gal. Feast XL 26-0-0 2 gal. Side-Kick 2 quarts Feast Zn 4 oz. Feast Mn 16 oz. Feast Cu 4 oz. Feast B 16 oz. Feast Ca 4 oz. Feast Mg 4 oz. Foliar X-CYTO 8 oz. Sugar 1 lb.
Yield, tons per acre	5.45	6.95
Yield Advantage		+ 1.5 tons
% Increase		+27.5%

By using a soil test through Midwest Labs, the AgroVantage system was able to determine a comprehensive mixture of Macro and Micro-nutrients that were needed for this Alfalfa crop to produce at the next level. The 1.5 Ton increase was better than a 4 to 1 return on investment!