



CORN ACCELERON® SEED APPLIED SOLUTIONS ELITE TRIAL

As a premium seed treatment option for corn, Stewart Seeds™ offers Acceleron® Seed Applied Solutions ELITE with Enhanced Disease Control. This treatment offers an increased level of fungicide seed treatment that offers enhanced early to mid-season disease control due to the reduction of infections caused by *Fusarium*, *Rhizoctonia solani* and *Colletotrichum graminicola*. In 2018, the Stewart Seed's AIM Agronomy team launched a large-scale protocol to determine the best placement for Acceleron® Seed Applied Solutions ELITE on farms. Customers and dealers involved in the AIM Solutions Network were given Acceleron® Seed Applied Solutions ELITE treated seed (either 7E224RIB Brand Blend or 8E623RIB Brand Blend) to split their planters with Acceleron® Seed Applied Solutions BASIC treated seed of the same product. Participants were asked to utilize this seed in their first plantings to put the seed treatment to the ultimate test.

MATERIALS AND METHODS

Participants split their planters with a single product treated with Acceleron® Seed Applied Solution BASIC and Acceleron® Seed Applied Solution ELITE. Depending on their geography, customers used either Stewart Seeds™ 7E224RIB Brand Blend or Stewart Seeds™ 8E623RIB Brand Blend. Customers were asked to plant at least 10 acres in the trial. Planting and harvest were tracked utilizing Climate Fieldview™ Plus. Management of the field's weed control, fertilizer inputs, and other practices varied by location. Yield data was shared with the AIM Agronomy Team for analysis.

COUNTY	BRAND BLEND	PLANTING DATE	BASIC	ELITE
Decatur Co, IN	8E623RIB	April 18, 2018	236	240
Wood Co, OH	7E224RIB	April 20, 2018	174	179
Gibson Co, IN	8E623RIB	April 21, 2018	253	263
Blackford Co, IN	7E224RIB	May 2, 2018	233	242
Mercer Co, OH	8E623RIB	May 5, 2018	215	215
Hamilton Co, OH	8E623RIB	May 7, 2018	226	229
Posey Co, IN	8E623RIB	May 9, 2018	256	254
Bartholomew Co, IN	8E623RIB	May 9, 2018	227	226
Warren Co, OH	8E623RIB	May 9, 2018	256	259
Rush Co, IN	8E623RIB	May 11, 2018	250	255
	LSD (Least Significant Difference)	2.3	232.6	236.2



Figure 1. Root differences in corn treated with Acceleron® Seed Applied Solutions BASIC 250 seed treatment and Acceleron® Seed Applied Solutions ELITE 250 seed treatment from Posey County, Indiana.

RESULTS AND DISCUSSION

Planting dates ranged from April 20, 2018 to May 11th, 2018. Depending on planting date, treatment, and location, yield levels ranged from 174 bu/a to 263 bu/a. Acceleron® Seed Applied Solutions ELITE 250 increased yield by an average of 3.6 bu/a. There was a clear advantage to Acceleron® Seed Applied Solutions ELITE 250 in earlier planted fields regardless of location or product. With earlier planting dates Acceleron® Seed Applied Solutions ELITE 250 increased corn yields by 7.0 bu/a with a net increase in profitability of \$18/a. After May 2, 2018 planting Acceleron® Seed Applied Solutions ELITE 250 did not significantly increase yields.

Based on this research trial and other trials done by Bayer Technical Development, Stewart Seed's AIM Agronomy Team recommends utilizing Acceleron® Seed Applied Solutions ELITE with Enhanced Disease Control on your early planted acres. If you would like more information on how to participate in AIM Solutions Network Protocols please talk to your Agronomist, District Sales Manager, or Stewart Seeds Dealer!