



On-Farm Demonstration Trial: Growth Promoter Studies Flotegic™ Plant Health Trials

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Objective

Determine the effects of the products for plant health on yields in corn and soybeans.

Introduction

Plant health is a factor causing yield variation in soybeans and corn. If plants are unhealthy then they cannot produce at maximum yield potential. Many different products or methods are used to observe and attempt to promote healthier and more vigorous plants. One method commonly used to help jumpstart plant growth and development is the use of a flowable seed coating Flotegic™, a Growmark corporation product, is labeled a nutritional seed coating and flow agent to assist in early season plant growth and development. The purpose of this trial was to investigate what effect Flotegic™ would have on plant health and its effect on yields in corn and soybeans.

Materials and Methods

Crop Year—2021

Trial	210806	210814
Trial County	Floyd	Floyd
Soil Type		
Previous Crop	Corn	Soybean
Tillage	No-Till	Conventional
Current Crop	Soybean	Corn
Hybrid–Variety Number	P25A04X	DKC55-53GENSS
Hybrid–Variety Company	Pioneer/Corteva	Dekalb
Row Spacing	30 in.	30 in.
Seeding Rate	180,000/ac.	35,000/ac.
Planting Date	April 30	May 2
Harvest Date	September 28	October 18
Experimental Type		
Replications	8	8
Biostimulant	Flotegic 3oz./140k	Flotegic 3oz./80k

Results

Trial Number	Treatment	Yield (bu./ac.) ^a	P-value ^b
210806	Flotegic	67.1 a	0.69
	Untreated Control	67.9 a	
210814	Flotegic	208.4 a	0.62
	Untreated Control	210.5 a	

^aValues denoted with the same letter within a trial are not statistically different at the significance level of 0.10.

^bP-value = the calculated probability that the difference in yields can be attributed to the treatments and no other factors. For example, if a trial has a P-value of 0.10, then we are 90% confident the yield differences are in response to treatments. This is consistent for demonstration trials.

Key Takeaways

- There were no significant yield or moisture effects from the treatments in the experiment.
- This product did not benefit or harm plant health and yield production.
- NOTE: The results presented are from replicated demonstration trials. Statistics are used to detect differences at a location and should not be interpreted beyond the single location.

