

Evaluation of Common Post-Emergence Herbicides Tank Mixed with Biological Products in Corn and Soybean

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Objectives

- To determine the effect of various biological product and herbicide tank mixes on weed control and crop yield compared to the herbicides alone and the non-treated control.

Treatments

- **21 biological product tank-mixes applied at their recommended rates with a standard POST herbicide treatment in corn (Halex GT + Atrazine), Enlist soybean (Enlist One + Roundup + Dual), and XtendFlex soybean (Xtendimax + Roundup + Warrant)**

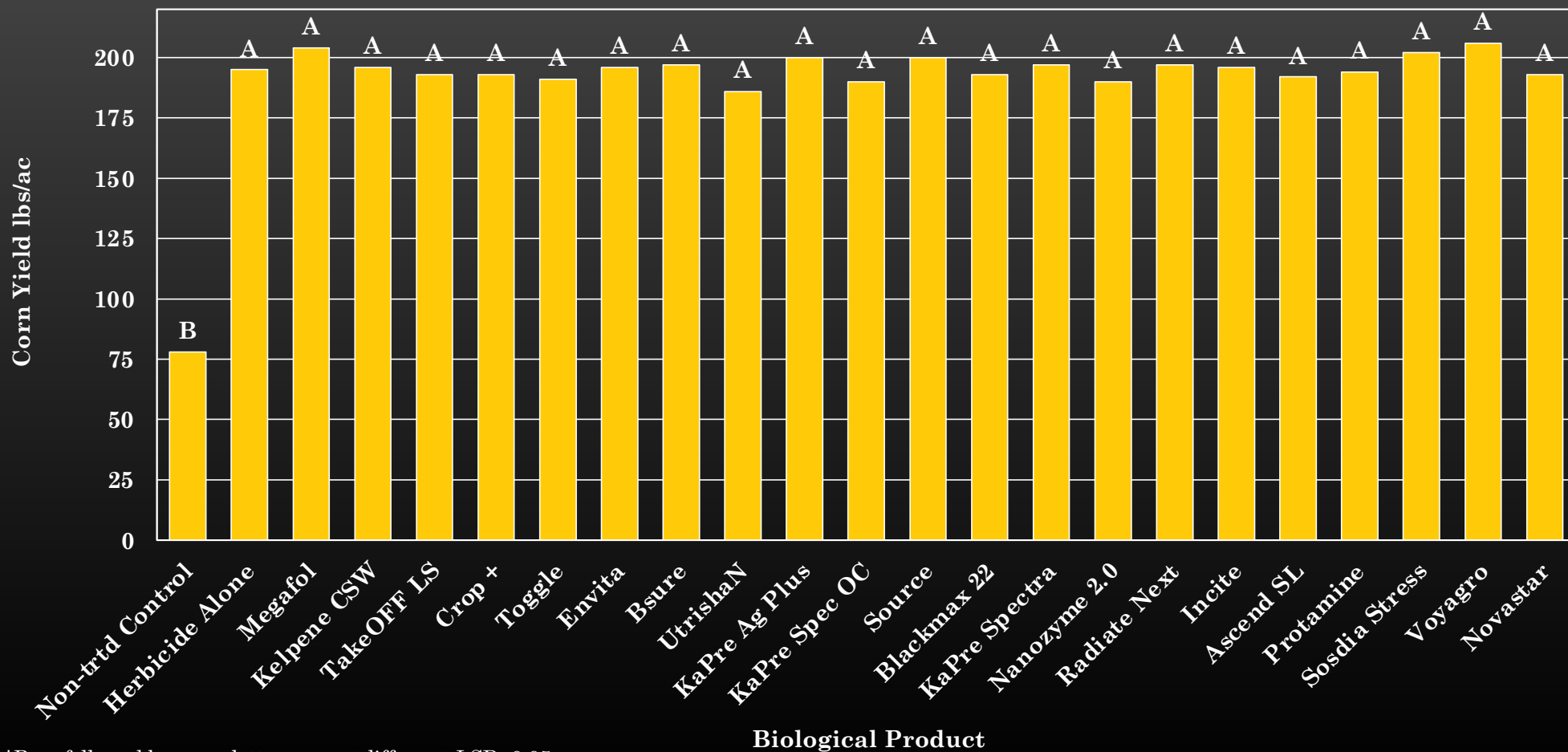
Product Type	Trade Name
Nitrogen Fixing Biologicals	Envita, Bsure, Utrisha N, KaPre Ag Plus
Marine/Sea Kelp Extracts	Kelpene CSW, Megafol, TakeOFF LS, Crop +, Toggle (APH-1016)
Humic/Fulvic/Organic Acids	KaPre Spectra OC, Source SC, Blackmax 22, KaPre Spectra, Nanozyme 2.0
Amino Acid Solutions	Protamine, Sosdia Stress, Voyagro, Potente
Phytohormone Solutions	Radiate Next, Incite, Ascend SL



Conclusions

- The 21 biological products evaluated in this research did not positively or negatively affect weed control or crop injury when tank mixed with common POST herbicides used in corn and soybean.
- There was no increase in yield as a result of the application of any of these biological products in corn or soybean.

Influence of POST Herbicide plus Biological Product Tank-mixes on Corn Yield (Columbia, Missouri 2023)



*Bars followed by same letter are not different, LSD=0.05.



*biological products applied with roundup + Halex GT + AAtrex

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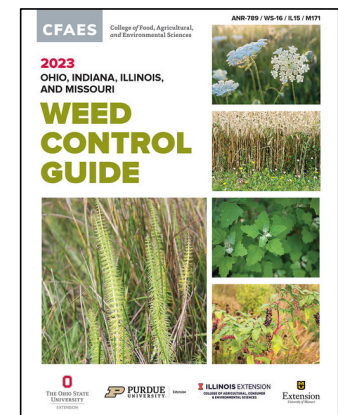
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