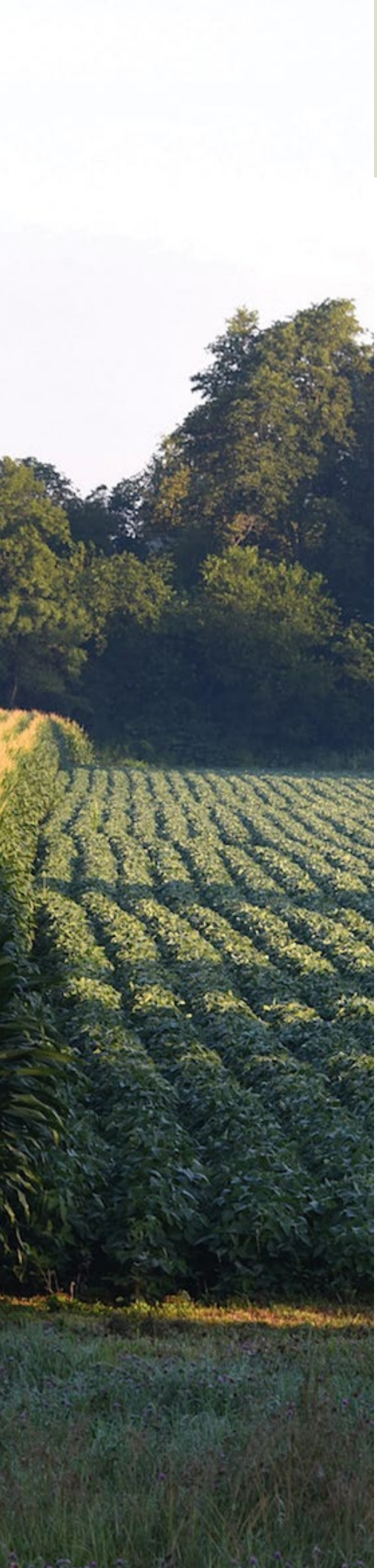

Corn and Soybean Yield Under Humic Acid Application

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Objective

Determine the effects of humic acid application on corn and soybean yield.

Materials and Methods

Crop Year–2021	
Soil Type	Marshall, Exira
Previous Crop	Corn-Soybean rotation
Cultivar	P1093Q (corn) and P28T14E (soybean)
Planting Date	April 28 (corn) and May 15 (soybean)
Row Spacing	30-in.
Seeding Rate	35,000 seeds/acre (corn) and 140,000 seeds/acre (soybean)
Tillage	No-tillage
Fertilizer	Optimum to high soil test
Nitrogen	165 lb. N/acre as UAN (32-0-0) – April 6, 2021 (corn)
Harvest Date	October 10
Experimental Design	RCBD (forced pairwise comparison)
Replications	Eight
Treatments	Untreated; 4 oz./acre; 8 oz./acre; 16 oz./acre and 24 oz./acre (only for corn) humic acid

Results

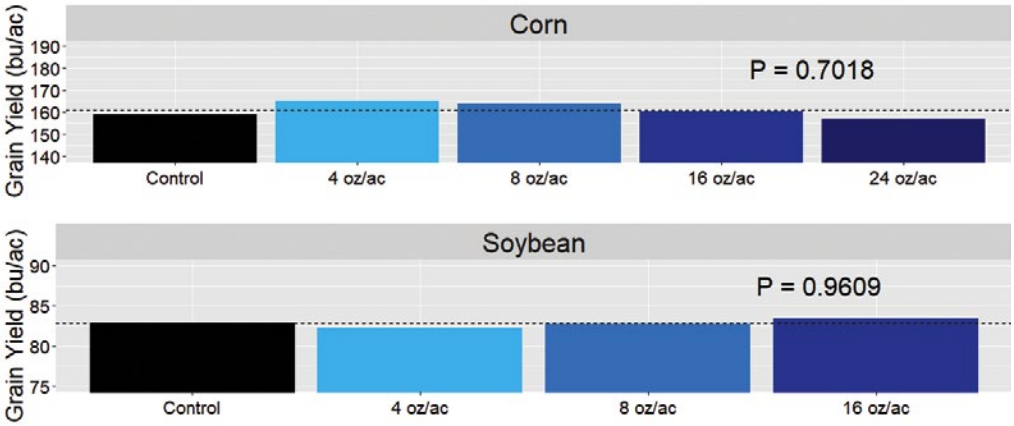

Figure 1. Corn and soybean grain yield at 15% and 13% moisture respectively; no statistical differences.

Key Takeaways

- For corn, while there was no statistical yield benefit to an increasing rate of humic acid, there was a negative trend with increasing rates.
- For soybean, there was no statistical yield difference between the Control and humic acid rates.