

## 2023 Dryland Cowpea Microbiological Product Trial at Akron

Company	Application Type	Treatments	Yield <sup>a</sup> bu/ac	Test Weight lb/bu	Moisture percent
None	n/a	Untreated Control	686	56	10.1
Van Grow	Liquid In-Furrow	ACL-5000	754	57	10.2
None	n/a	Untreated Control	686	56	10.1
Van Grow	Dry In-Furrow	ACB-5000	638	56	10.2
None	n/a	Untreated Control	686	56	10.1
Indigo Ag	Seed Treatment	M34	610	56	10.1
None	n/a	Untreated Control	686	56	10.1
Van Grow	Liquid In-Furrow	AC-5000	606	57	10.2
Average			<b>659</b>	<b>56</b>	<b>10.1</b>
Replicates			6		
<sup>b</sup> LSD (0.05)			NS		
Coefficient of Variation (CV)			13.7		
Available Nitrate-N (lb/ac top 2 feet)			22		
Organic Matter Content (%)			1.3		
Soil pH in top foot			6.3		

<sup>a</sup>Yield corrected to 14% moisture.

<sup>b</sup>An LSD (alpha 0.05) has been used to minimize the risk of false positive results, or concluding there is a difference when one doesn't exist. Treatment yields were not statistically different from the control.

### Site Information

Collaborator: Central Great Plains USDA-ARS Station  
 Planting Date: June 20, 2023  
 Harvest Date: October 10, 2023  
 Herbicides: Pre-Plant Burndown: Sharpen at 1 oz/ac and Roundup at 24 oz/ac  
 Post-Emerge: Raptor at 4 oz/ac and Basagran at 8 oz/ac on Aug. 4th  
 Soil Type: Rago silt loam  
 Trial Comments: Trial planted into excellent moisture. Good emergence, but early season hail reduced stands. Radar estimates showed the trial received about 10.2 inches of rain from planting to harvest and 21.8 inches since January 1st, which is 140% of the ten-year average (year-to-date).

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 Contact Sally Jones-Diamond (sally.jones@colostate.edu)*