Corn Nitrogen Fixing Biological Products

Objective: The purpose of the project is to quantify the agronomic and economic impact of a nitrogen fixing biological product (Envita) on grain corn for yield and quality.

Summary: One site-year showed a significant yield difference between the treatments.

Summary of 2023 corn nitrogen fixing biological product trial yield results by site-year

Trial ID	Rural Municipality	Row Spacing	Planting Rate	Envita Application	Yield by Treatment				Precipitation	CV	P-Value	Statistically Significant @ 95%
					Full N	Reduced N	Full N w/ Envita	Reduced N w/Envita				
		(inches)	(plants/ac)	(growth stage)	(bu/ac)				% of Normal	%		
CRNB01	De Salaberry	22	34,000	V6	127.4	126.8	128.3	126.7	47	1.25	0.6243	No
CRNB02	North Norfolk	30	32,000	V5	166.8	167.0	164.1	163.0	46	3.45	0.6921	No
CRNB03	Ritchot	20	34,687	V5	118.6	109.7	110.6	108.4	55	5.17	0.1219	No
CRNB04	Rockwood	10	34,000	V5	109.5	106.3	105.0	104.9	50	2.46	.2100	No
CRNB05	Springfield	15	36,000	V2	175.5^{A}	161.8^{BC}	169.9^{AB}	154.5^{C}	66	4.53	0.0152	Yes
CRNB06	Stanley	30	34,000	V3	230.2	227.5	228.4	227.2	38	2.85	0.9383	No

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