

Tilth Agronomy Group, INC

Trial ID: 24Ullmer_CornIF
 Protocol ID: Ullmer_CornIF Location: Omro, WI Trial Year: 2024
 Study Director: John Ullmer Sponsor Contact:
 Investigator: Derek Potratz

General Trial Information
Study Director: John Ullmer
Investigator: Derek Potratz **Title:** Director of Reserach
Status: E established
ARM Trial Created On: Apr-23-2024

Trial Location
City: Omro **Country:** USA United States
State/Prov.: Wisconsin
Postal Code: 54963

Contacts
Role: STYDIR study director
Study Director: John Ullmer
Organization: Schaeffer Oil/Blaster Anti Freeze
Role: INVEST investigator
Investigator: Derek Potratz **Title:** Director of Reserach
Organization: Tilth Agronomy Group, INC **Org. Type:** CRO
Address 1: 4595 County Road F
Country: USA United States **E-mail:** derek@tilthag.com
City: Omro **State/Prov:** Wisconsin **Postal Code:** 54963

Crop Description
Crop 1: C ZEAMD Zea mays indentata Dent corn **BBCH Scale:** BCOR
Entry Date: Nov-22-2024 **Stage Scale:** BBCH
Variety: Dekalb 48-69 VT2P
Planting Date: May-18-2024 **Planting Rate:** 34000 S/A
Row Spacing: 30 IN
Soil Temperature: 62 F
Emergence Date: May-25-2024
Harvest Date: Oct-25-2024

Site and Design
Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300.0FT2
Replications: 4 **Treatments:** 5 **Plots:** 20 **Study Design:** RACOBL Randomized Complete Block (RCB)
Distance between Blocks: 1 FT
Distance between 'Plot' Experimental Units: 0.5FT

Maintenance							
No.	Date	Type	Maintenance Product Name	Rate	Rate Unit	Tank Mix (Y/N)	Tank Mix (Yes/No)
1.	May-31-2023	HERB	Outlook	1.3	PT/A	Y	yes
2.	May-31-2023	HERB	Atrazine	1	LB/A	Y	yes
3.	May-31-2023	HERB	Roundup	1	LB A/A	Y	yes

Field Prep./Maintenance:
 250 lbs DAP
 150 lbs MOP
 50 lbs Urea
 250 lbs ESN
 50 lbs AMS

Soil Description
Description Name: Kewaunee silt loam, 2 to 6 per
 % OM: 3.2 **Texture:** SIL Silt Loam
Soil Name: Kewaunee silt loam, 2 to 6 percent slope
 pH: 7.2 **CEC:** 20.2

Application Description	
	A
Date	May-18-2024
Method	SEEAPO
Placement	SEEZON
Applied By	Derek Potratz
Entry Date	Nov-22-2024

Trt No.	Type	Treatment Name	Form Type	Rate	Rate Unit	Appl Code	Appl Description
1	CHK	6-24-6	L	3	gal/a	A	In Furrow

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Trt No.	Type	Treatment Name	Form Type	Rate	Rate Unit	Appl Code	Appl Description
2		Energyze 6-24-6	L	1	pt/a	A	In Furrow
			L	3	gal/a	A	In Furrow
3		Nanozyme Ignyte 6-24-6	L	1	pt/a	A	In Furrow
			L	1	qt/a	A	In Furrow
			L	3	gal/a	A	In Furrow
4		Ignyte Pro 6-24-6	L	1	qt/a	A	In Furrow
			L	3	gal/a	A	In Furrow
5		Bio Green Microboost Replenish 6-24-6	L	1	pt/a	A	In Furrow
			L	1	pt/a	A	In Furrow
			L	2	oz/a	A	In Furrow
			L	3	gal/a	A	In Furrow

Replications: 4, Untreated treatments: 1, Design: Randomized Complete Block (RCB), Treatment units: US standard, Treated 'Plot' experimental unit size Width: 10 feet, Treated 'Plot' experimental unit size Length: 30 feet, Application amount: 15 GAL/AC, Mix size: 1.564 L, Format definitions: G-All7.def, G-All7.frm

Product quantities required for listed treatments and applications of trials included in this table:

Amount*	Unit	Treatment Name	Form Conc	Form Unit	Form Type	Lot Code
7,499.185	mL	6-24-6			L	
62.500	mL	Energyze			L	
62.500	mL	Nanozyme			L	
125.000	mL	Ignyte			L	
125.000	mL	Ignyte Pro			L	
62.500	mL	Bio Green			L	
62.500	mL	Microboost			L	
7.812	mL	Replenish			L	

* 'Per area' calculations based on application amount= 6 GAL/AC, mix size= 3 L (mix size basis).

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Description		Green Seeker V>
Trt No.	Treatment Name	Rate Appl Unit Code
		3
5	Bio Green Microboost Replenish 6-24-6	1 pt/a A 1 pt/a A 2 oz/a A 3 gal/a A
		0.7 -
3	Nanozyme Ignyte 6-24-6	1 pt/a A 1 qt/a A 3 gal/a A
		0.7 -
1	6-24-6	3 gal/a A
		0.7 -
2	Energyze 6-24-6	1 pt/a A 3 gal/a A
		0.7 -
4	Ignyte Pro 6-24-6	1 qt/a A 3 gal/a A
		0.7 -
LSD P=.10		0.02
CV		2.11
Grand Mean		0.70

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 ^Calculated from residual.

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Description			Moisture (%)
Trt No.	Treatment Name	Rate Appl Unit Code	4
1	6-24-6	3 gal/a A	14.30 -
2	Energyze 6-24-6	1 pt/a A 3 gal/a A	14.06 -
5	Bio Green Microboost Replenish 6-24-6	1 pt/a A 1 pt/a A 2 oz/a A 3 gal/a A	14.02 -
4	Ignyte Pro 6-24-6	1 qt/a A 3 gal/a A	14.01 -
3	Nanozyme Ignyte 6-24-6	1 pt/a A 1 qt/a A 3 gal/a A	13.87 -
LSD P=.10			0.378
CV			2.14
Grand Mean			14.050

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Description		Test Weight (l>
Trt No.	Treatment Name	5
	Rate Unit Code	
1	6-24-6 3 gal/a A	57.64 -
2	Energyze 1 pt/a A 6-24-6 3 gal/a A	57.33 -
4	Ignyte Pro 1 qt/a A 6-24-6 3 gal/a A	57.33 -
5	Bio Green 1 pt/a A Microboost 1 pt/a A Replenish 2 oz/a A 6-24-6 3 gal/a A	56.83 -
3	Nanozyme 1 pt/a A Ignyte 1 qt/a A 6-24-6 3 gal/a A	56.82 -
LSD P=.10		1.368
CV		1.9
Grand Mean		57.188

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Description			Yield (bu/ac)
Trt No.	Treatment Name	Rate Unit Code	7
2	Energyze 6-24-6	1 pt/a A 3 gal/a A	230.40 -
3	Nanozyme Ignyte 6-24-6	1 pt/a A 1 qt/a A 3 gal/a A	226.09 -
5	Bio Green Microboost Replenish 6-24-6	1 pt/a A 1 pt/a A 2 oz/a A 3 gal/a A	221.76 -
4	Ignyte Pro 6-24-6	1 qt/a A 3 gal/a A	214.74 -
1	6-24-6	3 gal/a A	214.14 -
LSD P=.10			13.614
CV			4.88
Grand Mean			221.424

Means followed by same letter or symbol do not significantly differ (P=.10, LSD).
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 ^Calculated from residual.