

The Ohio State University

Trial ID: 24_PLANTGREEN-BetsyWARS
 Protocol ID: Location: Trial Year: 2024
 Study Director: Dr. Alyssa Essman Sponsor Contact:
 Investigator: Betsy Cunningham

Crop Description

Crop 1: C SECCE Secale cereale Rye BBCH Scale: BCER
 Entry Date: Apr-19-2024 Stage Scale: BBCH
 Variety: Hazlet
 Planting Date: Oct-19-2023 Planting Rate: 60 LB/A
 Depth: 1 IN
 Rows per Plot: 15 Planting Method: DRILLE drilled
 Row Spacing: 7.5 IN Planting Equipment: FE field equipment
 Seed Bed: MEDIUM medium
 Soil Moisture: DRY dry
 Emergence Date: Nov-6-2023

Crop 2: C ZEAMD Zea mays indentata Dent corn BBCH Scale: BCOR
 Entry Date: Apr-30-2024 Stage Scale: BBCH
 Variety: SC1122Q
 Attributes: Agrisure RW, Qrome, Lumigen
 Seed Size: 1591 S/LB
 Planting Date: Apr-29-2024 Planting Rate: 32000 S/A
 Depth: 1.75 IN
 Rows per Plot: 4 Planting Method: PLANTD planted
 Row Spacing: 30 IN Planting Equipment: FPP finger pickup planter
 Seed Bed: MEDTRA medium/trashy
 Soil Moisture: DRY dry
 Soil Temperature: 79 F
 Emergence Date: May-4-2024

Pest Description

Pest 1 Type: W
 Stage Scale: BBCH

Site and Design

Treated Plot Width: 10 FT Site Type: FIELD field
 Treated Plot Length: 30 FT
 Treated Plot Area: 300.0 FT2
 Replications: 4 Treatments: 12 Plots: 48 Study Design: FACTOR Factorial (RCB)
 Distance between Blocks: 5 FT
 Distance between 'Plot' Experimental Units: 0.5 FT

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Description	Rate	Rate Unit	Tank Mix (Yes/No)	Comment
1.	Apr-29-2024	FERT	N-Sure	28	% N	L	28-0-0	180	LB A/A	no	Applied at 4 mph with topdresser, see plot map (blue)
2.	Apr-29-2024	FERT	N-Sure	28	% N	L	28-0-0	90	LB A/A	no	Applied at 4 mph with topdresser, see plot map (red)
3.	May-24-2024	CROP	REPLANT CORN					32000	S/A		Replanted plot #: 104/105/107/109/110/211/301/302/306/307/308/407/411/412
4.	May-24-2024	FERT	N-Sure	28	% N	L	28-0-0	180	LB A/A	no	Applied at 4 mph with sidedresser, see plot map (green)
5.	May-24-2024	FERT	N-Sure	28	% N	L	28-0-0	90	LB A/A	no	Applied at 4mp with sidedresser, see plot map (red)

Comment: Greater than 20% stand loss recieved Replant on May 24

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Application Description

	A	B	C	D
Date	Apr-15-2024	May-1-2024	Apr-29-2024	Jun-4-2024
Start Time	5:15 PM	8:15 AM	4:36 PM	1:30 PM
Stop Time	5:30 PM	8:20 AM	5:00 PM	2:00 PM
Method	SPRAY	SPRAY	SRAY	SPRAY
Timing	14 EPP	ATPLAN	PRE	POST
Placement	BROFOL	BROFOL	BROSOI	BROFOL
Mixed/Prepared By	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay
Applied By	Tony Dobbels	Tony Dobbels	Colin Barclay	Colin Barclay
Entry Date	Apr-17-2024	May-1-2024	Apr-30-2024	Jun-6-2024
Air Temperature Start, Stop	76, 76 F	61, 61 F	79, 80 F	83.8, 83.8 F
% Relative Humidity Start, Stop	47.3, 47.3	66, 66	52, 44	52, 48
Wind Velocity+Dir. Start	6 MPH, W	4 MPH, S	9 MPH, SSW	5.5 MPH, NE
Wind Velocity+Dir. Stop		2 MPH, S	9.6 MPH, SSW	4 MPH, NE
Wind Velocity+Dir. Max		5 MPH, S	12.9 MPH, SSW	6 MPH, NE
Wet Leaves (Y/N)	N, no	Y, yes	N, no	N, no
Soil Temperature	66 F	54 F	70 F	69.8 F
Soil Temperature Depth	6 IN	6 IN	6 IN	6 IN
Soil Moisture	SLIWET	SLIWET	DRY	DRY
Soil Surface Condition	MEDTRA	MEDTRA	MEDTRA	MEDTRA
% Cloud Cover	5	20	50	25
First Moisture Occurred On	Apr-17-2024	May-3-2024	Apr-30-2024	Jun-4-2024
Time to First Moisture	2.0 DAY	2.0 DAY	1.0 DAY	7.0 HR
Amount of First Moisture	0.04 IN	0.2 IN	0.32 IN	0.01 IN
Moisture 1 Week Before Appl.	0.18 IN	0.38 IN	0.06 IN	0.57 IN
Moisture 6 Hours After Appl.	0 IN	0 IN	0 IN	0 IN
Moisture 24 Hours After Appl.	0 IN	0 IN	0.32 IN	0.63 IN
Moisture 1 Week After Appl.	0.07 IN	0.54 IN	0.7 IN	
Problems with Application?	N, no	N, no	N, no	N, no

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale	SECCE, BCER	SECCE, BCER	SECCE, BCER	SECCE, BCER
Days after Emergence	161	177	175	211
Crop 2 Code, BBCH Scale	ZEAMD, BCOR	ZEAMD, BCOR	ZEAMD, BCOR	ZEAMD, BCOR
Days after Emergence	-19	-3	-5	31

Pest Stage At Each Application

Pest 1 Code, Type, Scale -, W, BBCH -, W, BBCH -, W, BBCH -, W, BBCH

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Appl Code	Rep 1	Rep 2	Rep 3	Rep 4	Notes
6	AMSOL	100 %		L	2.5 % v/v		2.5 % v/v		A	101	202	309	408	
	Roundup Powermax 3	4.79 LBAE/GAL		SL	1.12 lb ae/a		30 oz/a		A					
	14 DAYS PRIOR TO PLANT POST - emerge N App Acuron	3.44 LBA/GAL		ZC	2.58 lb ai/a		3 qt/a		C					
7	AMSOL	100 %		L	2.5 % v/v		2.5 % v/v		B	102	211	301	411	
	Roundup Powermax 3	4.79 LBAE/GAL		SL	1.12 lb ae/a		30 oz/a		B					
	AT PLANT PRE - plant N App AAtrex	4 LBA/GAL		F	2 lb ai/a		4 pt/a		C					
5	AMSOL	100 %		L	2.5 % v/v		2.5 % v/v		A	103	208	303	406	
	Roundup Powermax 3	4.79 LBAE/GAL		SL	1.12 lb ae/a		30 oz/a		A					
	14 DAYS PRIOR TO PLANT POST - emerge N App AAtrex	4 LBA/GAL		F	2 lb ai/a		4 pt/a		C					
9	AMSOL	100 %		L	2.5 % v/v		2.5 % v/v		B	104	210	304	402	
	Roundup Powermax 3	4.79 LBAE/GAL		SL	1.12 lb ae/a		30 oz/a		B					
	AT PLANT SPLIT N App (50/50) AAtrex	4 LBA/GAL		F	2 lb ai/a		4 pt/a		C					
8	AMSOL	100 %		L	2.5 % v/v		2.5 % v/v		B	105	201	308	404	
	Roundup Powermax 3	4.79 LBAE/GAL		SL	1.12 lb ae/a		30 oz/a		B					
	AT PLANT PRE - plant N App Acuron	3.44 LBA/GAL		ZC	2.58 lb ai/a		3 qt/a		C					

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Unit	Other Rate	Other Rate	Unit	Appl Code	Rep 1	Rep 2	Rep 3	Rep 4	Notes
3	AMSOL Roundup Powermax 3 14 DAYS PRIOR TO PLANT SPLIT N App (50/50) AAtrex	100 % 4.79 LBAE/GAL	L SL	L	2.5 % v/v 1.12 lb ae/a		2.5 % v/v 30 oz/a			A A	106	207	310	405	
		4 LBA/GAL		F	2 lb ai/a		4 pt/a			C					
11	AMSOL Roundup Powermax 3 AT PLANT POST - emerge N App AAtrex	100 % 4.79 LBAE/GAL	L SL	L	2.5 % v/v 1.12 lb ae/a		2.5 % v/v 30 oz/a			B B	107	209	306	412	
		4 LBA/GAL		F	2 lb ai/a		4 pt/a			C					
4	AMSOL Roundup Powermax 3 14 DAYS PRIOR TO PLANT SPLIT N App (50/50) Acuron	100 % 4.79 LBAE/GAL	L SL	L	2.5 % v/v 1.12 lb ae/a		2.5 % v/v 30 oz/a			A A	108	212	311	410	
		3.44 LBA/GAL		ZC	2.58 lb ai/a		3 qt/a			C					
12	AMSOL Roundup Powermax 3 AT PLANT POST - emerge N App Acuron	100 % 4.79 LBAE/GAL	L SL	L	2.5 % v/v 1.12 lb ae/a		2.5 % v/v 30 oz/a			B B	109	203	302	407	
		3.44 LBA/GAL		ZC	2.58 lb ai/a		3 qt/a			C					
10	AMSOL Roundup Powermax 3 AT PLANT SPLIT N App (50/50) Acuron	100 % 4.79 LBAE/GAL	L SL	L	2.5 % v/v 1.12 lb ae/a		2.5 % v/v 30 oz/a			B B	110	205	307	401	
		3.44 LBA/GAL		ZC	2.58 lb ai/a		3 qt/a			C					
2	AMSOL Roundup Powermax 3 14 DAYS PRIOR TO PLANT PRE - plant N App Acuron	100 % 4.79 LBAE/GAL	L SL	L	2.5 % v/v 1.12 lb ae/a		2.5 % v/v 30 oz/a			A A	111	206	312	403	
		3.44 LBA/GAL		ZC	2.58 lb ai/a		3 qt/a			C					
1	AMSOL Roundup Powermax 3 14 DAYS PRIOR TO PLANT PRE - plant N App AAtrex	100 % 4.79 LBAE/GAL	L SL	L	2.5 % v/v 1.12 lb ae/a		2.5 % v/v 30 oz/a			A A	112	204	305	409	
		4 LBA/GAL		F	2 lb ai/a		4 pt/a			C					

Sort Order: Replicate 1