

The Ohio State University

University Showcase of Enversa - Encapsulated Acetochlor

Trial ID: 24ENVERSA
 Protocol ID: NA24MIB005H Location: Trial Year: 2024
 Study Director: Sponsor Contact:
 Investigator:

Crop Description

Crop 1: C GLXMA Glycine max	Soybean
Entry Date: Apr-19-2024	Stage Scale: BBCH
Variety: Pioneer 37A25	
Attributes: RR,LL,2,4-D toleranrt	
Seed Shape: ROUND	
Planting Date: Apr-18-2024	Planting Rate: 155000 S/A
Depth: 1 IN	
Rows per Plot: 4	Planting Method: PLANTD planted
Row Spacing: 30 IN	Planting Equipment: FE field equipment
	Seed Bed: MEDIUM medium
Soil Temperature: 68 F	Soil Moisture: SLIDRY slightly dry
Emergence Date: May-2-2024	

Pest Description

Pest 1 Type: W Code: SETFA Setaria faberi	Entry Date: May-21-2024
Common Name: Giant foxtail	Stage Scale: BBCH
Pest 2 Type: W Code: AMBTR Ambrosia trifida	Entry Date: May-21-2024
Common Name: Giant ragweed	Stage Scale: BBCH
Pest 3 Type: W Code: AMATA Amaranthus x tamariscinus	Entry Date: May-21-2024
Common Name: common water hemp	Stage Scale: BBCH
Pest 4 Type: W Code: CHEAL Chenopodium album	Entry Date: May-21-2024
Common Name: common lambsquarters	Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT
 Treated Plot Length: 30 FT
 Treated Plot Area: 200.1 FT2
 Replications: 4 Treatments: 6 Plots: 24 Study Design: RACOB L Randomized Complete Block (RCB)
 Distance between Blocks: 0 FT
 Distance between 'Plot' Experimental Units: 0 FT

Soil Description

Description Name: Entomology W-1
 % Sand: 35 % OM: 2.3 Texture: L loam
 % Silt: 40 Soil Name: Crosby
 % Clay: 25 Fert. Level: G good
 pH: 6.6 CEC: 12.7
 Soil Drainage: G good

Application Description

	A	B
Date	Apr-18-2024	May-21-2024
Start Time	2:55 PM	8:40 AM
Stop Time	3:00 PM	8:50 AM
Method	SPRAY	SPRAY
Timing	PRE	POST
Placement	BROSOI	BROFOL
Mixed/Prepared By	Dobbels	Barclay
Applied By	Dobbels	Barclay
Entry Date	Apr-19-2024	May-21-2024
Air Temperature Start, Stop	72, 72 F	69, 69 F
% Relative Humidity Start, Stop	45, 45	73, 73
Wind Velocity+Dir. Start	5 MPH, NE	6 MPH, SSW
Wind Velocity+Dir. Stop	5 MPH, NE	6 MPH, SSW
Wind Velocity+Dir. Max	5 MPH, NE	6 MPH, SSW
Wet Leaves (Y/N)	N, no	N, no
Soil Temperature	68 F	62 F
Soil Temperature Depth	6 IN	6 IN
Soil Moisture	SLIDRY	SLIDRY
Soil Surface Condition	MEDIUM	MEDIUM
% Ground Cover	0	70
% Cloud Cover	20	20
First Moisture Occurred On	Apr-19-2024	May-22-2024
Time to First Moisture	12.0 HR	1.0 DAY
Amount of First Moisture	0.03 IN	0.21 IN
Moisture 1 Week Before Appl.	0.21 IN	1.91 IN
Moisture 6 Hours After Appl.	0 IN	0 IN
Moisture 24 Hours After Appl.	0.03 IN	0 IN
Moisture 1 Week After Appl.	0.03 IN	0.59 IN
Problems with Application?	N, no	N, no

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Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-14	19
Stage Majority, Percent		12, 90
Stage Minimum, Percent		11, 10
Stage Maximum, Percent		12, 90
Height Average		3 IN
Height Minimum, Maximum		2, 3

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent		12, 80
Stage Minimum, Percent		11, 10
Stage Maximum, Percent		13, 10
Height Average		3 IN
Height Minimum, Maximum		2, 4
Relative Density	HIGH	
Density Average	60 m2	- m2
Density Minimum, Maximum	20, 480	
Pest 2 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent		16, 70
Stage Minimum, Percent		14, 10
Stage Maximum, Percent		18, 10
Height Average		4 IN
Height Minimum, Maximum		4, 6
Relative Density	MEDIUM	
Density Average	3.75 m2	
Density Minimum, Maximum	4, 20	
Pest 3 Code, Type, Scale	AMATA, W, BBCH	AMATA, W, BBCH
Stage Majority, Percent		14, 80
Stage Minimum, Percent		14, 80
Stage Maximum, Percent		16, 10
Height Average		0.5 IN
Height Minimum, Maximum		0.5, 2
Relative Density	MEDIUM	
Density Average	1.75 m2	
Density Minimum, Maximum	0, 12	
Pest 4 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent		14, 80
Stage Minimum, Percent		14, 80
Stage Maximum, Percent		16, 20
Height Average		1 IN
Height Minimum, Maximum		1, 2
Relative Density	MEDIUM	
Density Average	0.25 m2	
Density Minimum, Maximum	0, 4	

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Trt No.	Treatment Name	Form Conc Unit	Form Type	Form Rate	Rate Unit	Other Rate	Other Rate Unit	Appl Code	Appl Timing	Rep 1	Rep 2	Rep 3	Rep 4	Notes
1	Sonic	70 %AW/W	DF	0.0656	lb ai/a	1.5	oz/a	A	PRE	101	206	302	405	
2	Sonic	70 %AW/W	DF	0.0656	lb ai/a	1.5	oz/a	A	PRE	102	201	305	403	
	Enlist One	3.8 LBAE/GAL	SL	0.95	lb ai/a	32	oz/a	B	POST					
	Liberty	2.34 LBAE/GAL	SL	0.585	lb ai/a	32	oz/a	B	POST					
	AMSOL	100 %	L	5 %	v/v	3	qt/a	B	POST					
	COC	100 %	SL	0.5 %	v/v	0.3	qt/a	B	POST					
3	Sonic	70 %AW/W	DF	0.0656	lb ai/a	1.5	oz/a	A	PRE	103	204	301	406	
	Enversa	3 LBA/GAL	CS	1.13	lb ai/a	48	oz/a	B	POST					
	Enlist One	3.8 LBAE/GAL	SL	0.95	lb ai/a	32	oz/a	B	POST					
	Liberty	2.34 LBAE/GAL	SL	0.585	lb ai/a	32	oz/a	B	POST					
	AMSOL	100 %	L	5 %	v/v	3	qt/a	B	POST					
	COC	100 %	SL	0.5 %	v/v	0.3	qt/a	B	POST					
4	Sonic	70 %AW/W	DF	0.0656	lb ai/a	1.5	oz/a	A	PRE	104	202	306	404	
	Warrant	3 LBAE/GAL	CS	1.13	lb ai/a	48	oz/a	B	POST					
	Enlist One	3.8 LBAE/GAL	SL	0.95	lb ai/a	32	oz/a	B	POST					
	Liberty	2.34 LBAE/GAL	SL	0.585	lb ai/a	32	oz/a	B	POST					
	AMSOL	100 %	L	5 %	v/v	3	qt/a	B	POST					
	COC	100 %	SL	0.5 %	v/v	0.3	qt/a	B	POST					
5	Sonic	70 %AW/W	DF	0.0656	lb ai/a	1.5	oz/a	A	PRE	105	203	304	401	
	Zidua SC	4.17 LBAE/GAL	SC	0.0815	lb ai/a	2.5	oz/a	B	POST					
	Enlist One	3.8 LBAE/GAL	SL	0.95	lb ai/a	32	oz/a	B	POST					
	Liberty	2.34 LBAE/GAL	SL	0.585	lb ai/a	32	oz/a	B	POST					
	AMSOL	100 %	L	5 %	v/v	3	qt/a	B	POST					
	COC	100 %	SL	0.5 %	v/v	0.3	qt/a	B	POST					
6	Sonic	70 %AW/W	DF	0.0656	lb ai/a	1.5	oz/a	A	PRE	106	205	303	402	
	EverpreX	7.62 LBAE/GAL	EC	0.95	lb ai/a	1	pt/a	B	POST					
	Enlist One	3.8 LBAE/GAL	SL	0.95	lb ai/a	32	oz/a	B	POST					
	Liberty	2.34 LBAE/GAL	SL	0.585	lb ai/a	32	oz/a	B	POST					
	AMSOL	100 %	L	5 %	v/v	3	qt/a	B	POST					
	COC	100 %	SL	0.5 %	v/v	0.3	qt/a	B	POST					

Sort Order: Replicate 1