

The Ohio State University

Valent Soybean

Trial ID: 24FIERCE
 Protocol ID: 24FIERCE Location: Western Branch Entomology W-1 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: Seed Consultants SC7332E	
Attributes: RR,LL,2,4-D tolerannt	
Seed Shape: ROUND	Seed Size: 2910 S/LB
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-6-2024	

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: 10 FT
 Treated Plot Length: 30 FT
 Treated Plot Area: 300.0 FT2
 Replications: 4 Treatments: 8 Plots: 32 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	9:40 AM
Stop Time	3:00 PM	9:50 AM
Method	SPRAY	SPRAY
Timing	PRE	POST
Placement	BROSOI	BROFOL
Mixed/Prepared By	Barclay	Barclay
Applied By	Barclay	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	80
% 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.	0.3 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	-18	15
Stage Majority, Percent		13, 80
Stage Minimum, Percent		12, 20
Stage Maximum, Percent		13, 80
Height Average		3 IN
Height Minimum, Maximum		3, 4

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	85.75 m2	
Density Minimum, Maximum	220, 640	
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		6 IN
Height Minimum, Maximum		4, 6
Relative Density	MEDIUM	
Density Average	5.5 m2	
Density Minimum, Maximum	8, 48	
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, 20
Height Average		0.5 IN
Height Minimum, Maximum		0.5, 1
Relative Density	MEDIUM	
Density Average	7 m2	
Density Minimum, Maximum	24, 32	
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		0.5, 2
Relative Density	MEDIUM	
Density Average	9.75 m2	
Density Minimum, Maximum	20, 56	

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Other Rate	Other Unit	Appl Code	Appl Timing	Rep				Notes
											1	2	3	4	
1	UNTREATED CHECK										101	207	302	403	
2	FIERCE EZ (2065)	3.04	LBA/GAL	SC	6 fl oz/a		0.143 lb ai/a		A	PREPRE	102	205	303	401	
	ROUNDUP POWER MAX 3(AE)	4.8	LBA/GAL	SL	30 oz/a		1.13 lb ae/a		B	POSPOS					
	ENLIST ONE	3.8	LBA/GAL	SL	32 oz/a		0.95 lb ai/a		B	POSPOS					
	PERPETUO	2.3	LBA/GAL	SC	6 fl oz/a		0.108 lb ai/a		B	POSPOS					
	AGRIDEX	100	%W/W	L	1 % v/v		1 % v/v		B	POSPOS					
	N-PAK AMS LIQUID	100	%W/W	L	2.5 % v/v				B	POSPOS					
3	FIERCE MTZ SC (2030)	2.64	LBA/GAL	SC	16 fl oz/a		0.33 lb ai/a		A	PREPRE	103	202	308	406	
	ROUNDUP POWER MAX 3(AE)	4.8	LBA/GAL	SL	30 oz/a		1.13 lb ae/a		B	POSPOS					
	ENLIST ONE	3.8	LBA/GAL	SL	32 oz/a		0.95 lb ai/a		B	POSPOS					
	PERPETUO	2.3	LBA/GAL	SC	6 fl oz/a		6 fl oz/a		B	POSPOS					
	AGRIDEX	100	%W/W	OC	1 % v/v		1 % v/v		B	POSPOS					
	N-PAK AMS LIQUID	100	%W/W	L	2.5 % v/v				B	POSPOS					
4	FIERCE XLT	62.41	%W/W	WG	4 oz wt/a		0.156 lb ai/a		A	PREPRE	104	201	304	402	
	ROUNDUP POWER MAX 3(AE)	4.8	LBA/GAL	SL	30 oz/a		1.13 lb ae/a		B	POSPOS					
	ENLIST ONE	3.8	LBA/GAL	SL	32 oz/a		0.95 lb ai/a		B	POSPOS					
	PERPETUO	2.3	LBA/GAL	SC	6 fl oz/a		0.108 lb ai/a		B	POSPOS					
	AGRIDEX	100	%W/W	OC	1 % v/v		1 % v/v		B	POSPOS					
	N-PAK AMS LIQUID	100	%W/W	L	2.5 % v/v		2.5 % v/v		B	POSPOS					
5	ZIDUA PRO	4.09	LBA/GAL	SC	6 fl oz/a				A	PREPRE	105	203	306	404	
	ROUNDUP POWER MAX 3(AE)	4.8	LBA/GAL	SL	30 oz/a		1.13 lb ae/a		B	POSPOS					
	ENLIST ONE	3.8	LBA/GAL	SL	32 oz/a		0.95 lb ai/a		B	POSPOS					
	ZIDUA SC	4.17	LBA/GAL	SC	2.5 fl oz/a				B	POSPOS					
	AGRIDEX	100	%W/W	OC	1 % v/v		1 % v/v		B	POSPOS					
	N-PAK AMS LIQUID	100	%W/W	L	2.5 % v/v		2.5 % v/v		B	POSPOS					
6	AUTHORITY EDGE	4.25	LBA/GAL	SC	7 oz/a		0.232 lb ai/a		A	PREPRE	106	204	307	408	
	ROUNDUP POWER MAX 3(AE)	4.8	LBA/GAL	SL	30 oz/a		1.13 lb ae/a		B	POSPOS					
	ENLIST ONE	3.8	LBA/GAL	SL	32 oz/a		0.95 lb ai/a		B	POSPOS					
	ANTHEM MAXX	4.3	LBA/GAL	SC	3 fl oz/a				B	POSPOS					
	AGRIDEX	100	%W/W	OC	1 % v/v		1 % v/v		B	POSPOS					
	N-PAK AMS LIQUID	100	%W/W	L	2.5 % v/v		2.5 % v/v		B	POSPOS					
7	Tendovo	4.177	LBA/GAL	ZC	2.1 qt/a		2.2 lb ai/a		A	PREPRE	107	208	301	405	
	ROUNDUP POWER MAX 3(AE)	4.8	LBA/GAL	SL	30 oz/a		1.13 lb ae/a		B	POSPOS					
	ENLIST ONE	3.8	LBA/GAL	SL	32 oz/a		0.95 lb ai/a		B	POSPOS					
	Dual Magnum	7.62	LBA/GAL	EC	1.3 pt/a		1.24 lb ai/a		B	POSPOS					
	AGRIDEX	100	%W/W	OC	1 % v/v		1 % v/v		B	POSPOS					
	N-PAK AMS LIQUID	100	%W/W	L	2.5 % v/v		2.5 % v/v		B	POSPOS					
8	Sonic	70	%AW/W	DF	6 oz/a		0.263 lb ai/a		A	PREPRE	108	206	305	407	
	ROUNDUP POWER MAX 3(AE)	4.8	LBA/GAL	SL	30 oz/a		1.13 lb ae/a		B	POSPOS					
	ENLIST ONE	3.8	LBA/GAL	SL	32 oz/a		0.95 lb ai/a		B	POSPOS					
	Enversa	3	LBA/GAL	SC	1.3 pt/a		0.488 lb ai/a		B	POSPOS					
	AGRIDEX	100	%W/W	OC	1 % v/v		1 % v/v		B	POSPOS					
	N-PAK AMS LIQUID	100	%W/W	L	2.5 % v/v		2.5 % v/v		B	POSPOS					

Sort Order: Replicate 1