

The Ohio State University

Herbicide - Sales Support - 2024 US

Trial ID: USNK0H7022024
 Protocol ID: HAISUP4-2024US Location: Bruns Dain FS Trial Year: 2024
 Study Director: Dain Bruns Sponsor Contact: Gordon Vail Conducted Under GEP: No
 Investigator: Dain Bruns Trial Origin: P public institution trial

Crop Description

Crop 1: C GLXMA Glycine max Soybean BBCH Scale: BSOY
 Entry Date: May-8-2024 Stage Scale: BBCH
 Variety: P34A98E Maturity Group: 3.4
 Attributes: RR,LL,2,4-D toleranrt
 Seed Lot No: W3WOO13041-LIT-1023 Seed Source: Pioneer
 % Germination: 90 1000 Seed Weight: 0.43 LB
 Planting Rate: 155000 S/A
 Planting Date: May-2-2024
 Depth: 1 IN Planting Method: PLANTD planted
 Rows per Plot: 8 Planting Equipment: FE field equipment
 Row Spacing: 15 IN Seed Bed: MEDIUM medium
 Soil Moisture: SLIDRY slightly dry
 Soil Temperature: 68 F
 Emergence Date: May-14-2024

Pest Description

Pest 1 Type: W Code: CHEAL Chenopodium album Entry Date: Jun-11-2024
 Common Name: common lambsquarters Stage Scale: BBCH
 Pest 2 Type: W Code: SETFA Setaria faberi Entry Date: Jun-5-2024
 Common Name: Giant foxtail Stage Scale: BBCH
 Pest 3 Type: W Code: SETPU Setaria pumila Entry Date: Jun-5-2024
 Common Name: yellow foxtail Stage Scale: BBCH
 Pest 4 Type: W Code: AMBTR Ambrosia trifida Entry Date: Jun-5-2024
 Common Name: Giant ragweed Stage Scale: BBCH
 Pest 5 Type: W Code: IPOHE Ipomoea hederacea Entry Date: Jun-5-2024
 Common Name: ivy-leaf morning glory Stage Scale: BBCH

Site and Design

Treated Plot Width: 10 FT Total Plot Width: 10 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Total Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 300.0 FT² Tillage Type: CONTIL conventional-till
 Replications: 4 Treatments: 8 Plots: 32 Study Design: RACOB L Randomized Complete Block (RCB)
 Untreated Arrangement: INCLUDED single control randomized in each block
 Distance between Blocks: 0 FT
 Distance between 'Plot' Experimental Units: 0 FT

Previous
 No. Crop Year
 1. ZEAMX 2023

Soil Description

Description Name: F-7 East
 % Sand: 37 % OM: 2.8 Texture: L loam
 % Silt: 48 Soil Name: Kokomo
 % Clay: 15 Fert. Level: G good
 pH: 5.7 CEC: 11

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Application Description

	A	B
Date	May-2-2024	Jun-4-2024
Start Time	8:00 PM	8:30 AM
Stop Time	8:20 PM	8:45 AM
Interval to Prev. Appl.		33 DAYS
Method	NONINC	SPRAY
Timing	PREPRE	POSPOS
Placement	BROFOL	BROFOL
Mixed/Prepared By	Dobbels	Dobbels
Applied By	Dobbels	McCormick
Entry Date	May-3-2024	Jun-5-2024
Air Temperature Start, Stop	66, 66 F	73, 73 F
% Relative Humidity Start, Stop	41, 41	83, 83
Wind Velocity+Dir. Start	3 MPH, W	5 MPH, E
Wind Velocity+Dir. Stop	3 MPH, W	5 MPH, E
Wind Velocity+Dir. Max	4.6 MPH, W	6 MPH, E
Wet Leaves (Y/N)	N, no	Y, yes
Soil Temperature	58 F	67 F
Soil Temperature Depth	6 IN	6 IN
Soil Moisture	DRY	DRY
% Ground Cover	0	80
% Cloud Cover	0	50
First Moisture Occurred On	May-3-2024	Jun-4-2024
Time to First Moisture	21.0 HR	12.0 HR
Amount of First Moisture	0.25 IN	0.24 IN
Moisture 24 Hours After Appl.	0.25 IN	0.24 IN
Moisture 1 Week After Appl.	0.82 IN	0.65 IN
Problems with Application?	N, no	N, no

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY
Stage Majority, Percent		13, 80
Stage Minimum, Percent		13, 80
Stage Maximum, Percent		14, 20
Height Average		6 IN
Height Minimum, Maximum		4, 6

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH
Density Average	14 m2	
Density Minimum, Maximum	24, 124	
Pest 2 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent		14, 50
Stage Minimum, Percent		13, 10
Stage Maximum, Percent		16, 20
Height Average		6 IN
Height Minimum, Maximum		6, 8
Density Average	17.75 m2	
Density Minimum, Maximum	56, 84	
Pest 3 Code, Type, Scale	SETPU, W, BBCH	SETPU, W, BBCH
Stage Majority, Percent		22, 80
Stage Minimum, Percent		22, 80
Stage Maximum, Percent		23, 10
Height Average		3 IN
Height Minimum, Maximum		2, 4
Density Average	15 m2	
Density Minimum, Maximum	48, 84	
Pest 4 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent		19, 80
Stage Minimum, Percent		14, 10
Stage Maximum, Percent		19, 80
Height Average		6 IN
Height Minimum, Maximum		4, 10
Density Average	2.75 m2	
Density Minimum, Maximum	8, 16	
Pest 5 Code, Type, Scale	IPOHE, W, BBCH	IPOHE, W, BBCH
Stage Majority, Percent		12, 80
Stage Minimum, Percent		12, 80
Stage Maximum, Percent		13, 10
Height Average		2 IN
Height Minimum, Maximum		2, 3
Density Average	0.75 m2	
Density Minimum, Maximum	0, 8	

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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
	ROUNDUP POWERMAX 3 HERBICIDE -GLYPHOSATE	575	gAE/L	SL	1180	g ae/ha	28	fl oz/a	B					
8	TENDOVO HERBICIDE	496.54	gA/L	ZC	2440	g ai/ha	2.1	qt/a	A	108	201	303	405	
	-S-METOLACHLOR	412.55			2030									
	-CLORANSULAM-METHYL	7.74			38									
	-METRIBUZIN	76.25001			375									
	N-PAK AMS LIQUID			SL	2.5	% v/v	2.5	% v/v	B					
	ENLIST ONE 3.8 SL	455.34	gAE/L	SL	1060	g ae/ha	2	pt/a	B					
	-2,4-D	455.34			1060									
	ROUNDUP POWERMAX 3 HERBICIDE -GLYPHOSATE	575	gAE/L	SL	1180	g ae/ha	28	fl oz/a	B					

Sort Order: Replicate 1