

The Ohio State University

SpeedAgro Adjuvant with HPPD's in Corn Waterhemp

Trial ID: 24SPEEDAGRO
 Protocol ID: 24SPEEDAGRO Location: Western Branch G-9 Trial Year: 2024
 Study Director: Sponsor Contact:
 Investigator:

Crop Description

Crop 1: C ZEAMD Zea mays indentata Dent corn BBCH Scale: BCOR
 Entry Date: Jun-26-2024 Stage Scale: BBCH
 Variety: P10477Q
 Attributes: RR,LL tolerant
 Planting Date: Apr-26-2024 Planting Rate: 32097 S/A
 Depth: 1.5 IN
 Rows per Plot: 4 Planting Method: PLANTD planted
 Row Spacing: 30 IN Planting Equipment: FPP finger pickup planter
 Seed Bed: MEDIUM medium
 Soil Moisture: SLIDRY slightly dry
 Soil Temperature: 60 F
 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: ABUTH Abutilon theophrasti Entry Date: May-21-2024
 Common Name: velvetleaf Stage Scale: BBCH
 Pest 5 Type: W Code: SOLPT Solanum ptychanthum Entry Date: May-21-2024
 Common Name: West Indian nightshade Stage Scale: BBCH

Site and Design

Treated Plot Width: 6.67 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 200.1 FT² Tillage Type: NOTILL no-till
 Replications: 3 Treatments: 10 Plots: 30 Study Design: RACOB L Randomized Complete Block (RCB)
 Distance between Blocks: 0 FT
 Distance between 'Plot' Experimental Units: 0 FT

Previous

No. Crop Year
 1. SOYBEAN 2023

Application Description

Date May-21-2024
 Start Time 9:30 AM
 Stop Time 9:40 AM
 Method SPRAY
 Timing POST
 Placement BROFOL
 Mixed/Prepared By Mccormick
 Applied By Mccormick
 Entry Date May-21-2024
 Air Temperature Start, Stop 74, 74 F
 % Relative Humidity Start, Stop 67, 67
 Wind Velocity+Dir. Start 7 MPH, NE
 Wind Velocity+Dir. Stop 7 MPH, NE
 Wind Velocity+Dir. Max 7 MPH, NE
 Wet Leaves (Y/N) N, no
 Soil Temperature 62 F
 Soil Temperature Depth 6 IN
 Soil Moisture SLIWET
 Soil Surface Condition MEDIUM
 % Ground Cover 100
 % Cloud Cover 15
 First Moisture Occurred On May-22-2024
 Time to First Moisture 1.0 DAY
 Amount of First Moisture 0.21 IN
 Moisture 1 Week Before Appl. 1.91 IN
 Moisture 6 Hours After Appl. 0 IN
 Moisture 24 Hours After Appl. 0 IN
 Moisture 1 Week After Appl. 0.59 IN
 Problems with Application? N, no

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Crop Stage At Each Application

Crop 1 Code, BBCH Scale ZEAMD, BCOR
 Stage Majority, Percent 15, 100
 Height Average 14 IN
 Height Minimum, Maximum 12, 15

Pest Stage At Each Application

Pest 1 Code, Type, Scale SETFA, W, BBCH
 Stage Majority, Percent 13, 80
 Stage Minimum, Percent 12, 10
 Stage Maximum, Percent 15, 10
 Height Average 6 IN
 Height Minimum, Maximum 4, 10
 Relative Density HIGH
 Density Average 279.3 m2
 Density Minimum, Maximum 240, 320
 Pest 2 Code, Type, Scale AMBTR, W, BBCH
 Stage Majority, Percent 18, 70
 Stage Minimum, Percent 14, 10
 Stage Maximum, Percent 19, 10
 Height Average 12 IN
 Height Minimum, Maximum 2, 14
 Relative Density MEDIUM
 Density Average 14.63 m2
 Density Minimum, Maximum 4, 36
 Pest 3 Code, Type, Scale AMATA, W, BBCH
 Stage Majority, Percent 16, 70
 Stage Minimum, Percent 14, 10
 Stage Maximum, Percent 18, 10
 Height Average 4 IN
 Height Minimum, Maximum 1, 6
 Relative Density MEDIUM
 Density Average 226.1 m2
 Density Minimum, Maximum 200, 260
 Pest 4 Code, Type, Scale ABUTH, W, BBCH
 Stage Majority, Percent 13, 70
 Stage Minimum, Percent 12, 10
 Stage Maximum, Percent 15, 10
 Height Average 3 IN
 Height Minimum, Maximum 2, 4
 Relative Density MEDIUM
 Density Average 2.66 m2
 Density Minimum, Maximum 0, 4
 Pest 5 Code, Type, Scale SOLPT, W, BBCH
 Stage Majority, Percent 14, 70
 Stage Minimum, Percent 12, 10
 Stage Maximum, Percent 16, 10
 Height Average 2 IN
 Height Minimum, Maximum 1, 3

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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 1	Rep 2	Rep 3	Notes
1	Resicore	3.29	LBA/GAL	SE	1.25	qt/a	1.03	lb ai/a	A	V4	101	203	310	
	Atrazine	4	LBA/GAL	F	1	qt/a	1	lb ai/a	A	V4				
	SpeedAgro Adjuvant	100 %		L	0.075	% v/v	0.094	lb ai/a	A	V4				
2	Resicore	3.29	LBA/GAL	SE	1.25	qt/a	1.03	lb ai/a	A	V4	102	201	308	
	Atrazine	4	LBA/GAL	F	1	qt/a	1	lb ai/a	A	V4				
	HC MSO	100 %		SL	0.5	% v/v	0.5	% v/v	A	V4				
	AMSOL	100 %		L	2.5	% v/v	2.5	% v/v	A	V4				
3	Impact	2.8	LBA/GAL	SC	1	oz/a	0.0219	lb ai/a	A	V4	103	208	301	
	Atrazine	4	LBA/GAL	F	1	qt/a	1	lb ai/a	A	V4				
	SpeedAgro Adjuvant	100 %		L	0.075	% v/v	0.094	lb ai/a	A	V4				
4	Impact	2.8	LBA/GAL	SC	1	oz/a	0.0219	lb ai/a	A	V4	104	206	309	
	Atrazine	4	LBA/GAL	F	1	qt/a	1	lb ai/a	A	V4				
	HC MSO	100 %		SL	0.5	% v/v	0.5	% v/v	A	V4				
	AMSOL	100 %		L	2.5	% v/v	2.5	% v/v	A	V4				
5	Acuron	3.44	LBA/GAL	ZC	1.5	qt/a	1.29	lb ai/a	A	V4	105	207	307	
	SpeedAgro Adjuvant	100 %		L	0.075	% v/v	0.094	lb ai/a	A	V4				
6	Acuron	3.44	LBA/GAL	ZC	1.5	qt/a	1.29	lb ai/a	A	V4	106	202	304	
	HC MSO	100 %		SL	0.5	% v/v	0.5	% v/v	A	V4				
	AMSOL	100 %		L	2.5	% v/v	2.5	% v/v	A	V4				
7	Laudis	3.5	LBA/GAL	L	3	oz/a	0.082	lb ai/a	A	V4	107	209	305	
	Atrazine	4	LBA/GAL	F	1	qt/a	1	lb ai/a	A	V4				
	SpeedAgro Adjuvant	100 %		L	0.075	% v/v	0.094	lb ai/a	A	V4				
8	Laudis	3.5	LBA/GAL	L	3	oz/a	0.082	lb ai/a	A	V4	108	210	303	
	Atrazine	4	LBA/GAL	F	1	qt/a	1	lb ai/a	A	V4				
	HC MSO	100 %		SL	0.5	% v/v	0.5	% v/v	A	V4				
	AMSOL	100 %		L	2.5	% v/v	2.5	% v/v	A	V4				
9	UTC										109	205	306	
10	Halex GT	4.38	LBA/GAL	CS	3.6	pt/a	1.97	lb ai/a	A	V4	110	204	302	
	SpeedAgro Adjuvant	100 %		L	0.075	% v/v	0.094	lb ai/a	A	V4				

Sort Order: Replicate 1