

The Ohio State University

2024 USB Metribuzin Early Planted Soybean Trial

Trial ID: 24USBMETEARLYPL_3
 Protocol ID: 24USBMETEARLYPL_3 Location: Trial Year: 2024
 Study Director: Sponsor Contact:
 Investigator:

Crop Description

Crop 1: C GLXMA Glycine max Soybean BBCH Scale: BSOY
 Entry Date: Mar-26-2024 Stage Scale: BBCH
 Variety: Xitavo
 Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol
 Planting Date: Mar-25-2024 Planting Rate: 155000 S/A
 Depth: 1.25 IN
 Rows per Plot: 7 Planting Method: PLANTD planted
 Row Spacing: 15 IN Planting Equipment: FE field equipment
 Seed Bed: SMOOTH smooth
 Soil Moisture: DRY dry
 Soil Temperature: 45 F
 Emergence Date: Apr-18-2024

Crop 2: C GLXMA Glycine max Soybean BBCH Scale: BSOY
 Entry Date: May-7-2024 Stage Scale: BBCH
 Variety: Xitavo
 Attributes: 2,4-D Choline, Glyphosate, Glufosinate Tol
 Planting Date: May-6-2024 Planting Rate: 155000 S/A
 Depth: 1.25 IN
 Rows per Plot: 7 Planting Method: PLANTD planted
 Row Spacing: 15 IN Planting Equipment: FE field equipment
 Seed Bed: SMOOTH smooth
 Soil Moisture: DRY dry
 Soil Temperature: 45 F
 Emergence Date: May-17-2024

Site and Design

Treated Plot Width: 10 FT Site Type: FIELD field
 Treated Plot Length: 30 FT Experimental Unit: 1 PLOT plot
 Treated Plot Area: 300.0 FT² Tillage Type: CONTIL conventional-till
 Replications: 4 Treatments: 16 Plots: 64 Study Design: SPLPLO Split-Plot
 Distance between Blocks: 0 FT
 Distance between 'Plot' Experimental Units: 0 FT

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Description	Rate	Tank Mix (Yes/No)
1.	May-8-2024	FERT	AMSOL	100.0 %	L	AMS	2.5 % V/V	yes
2.	May-8-2024	HERB	Roundup Powermax 3	4.8	LB/GAL	L	30 oz/a	yes
3.	May-8-2024	HERB	Enlist ONE	3.8	LBAE/GAL	L	1 pt/a	yes

Comment: Burndown was sprayed on the second planting date so we could get accurate representation of what the treatments would do.

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

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Application Description

	A	B	C	D
Date	Mar-25-2024	May-6-2024	May-30-2024	Jun-24-2024
Start Time	11:52 AM	9:58 AM	12:00 PM	3:25 PM
Stop Time	12:15 PM	10:13 AM	12:10 PM	3:32 PM
Method	SPRAY	SPRAY	SPRAY	SPRAY
Timing	PRE	PRE	POST	POST
Placement	BROSOI	BROSOI	BROFOL	BROFOL
Mixed/Prepared By		Colin Barclay	Ella Poling	Colin Barclay
Applied By	McCormick	Tony Dobbels	Colin Barclay	Colin Barclay
Entry Date	Mar-26-2024	May-7-2024	May-31-2024	Jun-25-2024
Air Temperature Start, Stop	59, 59 F	66, 66 F	65, 65 F	79, 79 F
% Relative Humidity Start, Stop	23, 23	80, 80	39, 39	45, 45
Wind Velocity+Dir. Start	12 MPH, N	3 MPH, SE	3.4 MPH, SW	5.5 MPH, NW
Wind Velocity+Dir. Stop	12 MPH, N	3 MPH, SE	4 MPH, SW	5.5 MPH, NW
Wind Velocity+Dir. Max	12 MPH, N	6.2 MPH, SE	5 MPH, SW	7.6 MPH, NW
Wet Leaves (Y/N)	N, no	N, no	N, no	N, no
Soil Temperature	44 F	60 F	62 F	77 F
Soil Temperature Depth	6 IN	6 IN	6 IN	10 cm
Soil Moisture	dry	SLIWET	SLIWET	DRY
Soil Surface Condition	SMOOTH	MEDIUM	SMOOTH	SMOOTH
% Ground Cover	0	0		
% Cloud Cover	75	100	95	25
First Moisture Occurred On	Mar-26-2024	May-6-2024	May-30-2024	
Time to First Moisture	12.0 HR	6.0 HR	20.0 MIN	
Amount of First Moisture	0.5 IN	0.35 IN	0.01 IN	
Moisture 1 Week Before Appl.	0.02 IN	0 IN	0.69 IN	
Moisture 6 Hours After Appl.	0 IN	0.2 IN	0.01 IN	
Moisture 24 Hours After Appl.	0.5 IN	0.35 IN	0.01 IN	
Moisture 1 Week After Appl.	0.61 IN	1.09 IN	0.67 IN	
Problems with Application?	N, no	N, no	N, no	

Crop Stage At Each Application

	A	B	C	D
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-24	18	42	67
Crop 2 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-53	-11	13	38

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate	Rate Unit	Other Rate	Other Rate	Unit	Appl Code	Appl Timing	Rep 1	Rep 2	Rep 3	Rep 4	Notes
11	Normal Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.19 lb ai/a	8 oz/a	0.375 lb ai/a	8 oz/a		B B	PRE PRE	101	215	309	401	
7	Early Plant Preview 2:1	3.35 LBA/GAL		SC	0.6 lb ai/a	23 oz/a				A	PRE	102	210	308	413	
10	Normal Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.19 lb ai/a	8 oz/a	0.188 lb ai/a	4 oz/a		B B	PRE PRE	103	212	307	414	
4	Early Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.143 lb ai/a	6 oz/a	0.56 lb ai/a	12 oz/a		A A	PRE PRE	104	216	310	402	
14	Normal Plant Spartan	4 LBA/GAL		F	0.313 lb ai/a	10 oz/a				B	PRE	105	201	315	409	
6	Early Plant Spartan	4 LBA/GAL		F	0.313 lb ai/a	10 oz/a				A	PRE	106	213	304	416	
16	Normal Plant utc											107	214	303	405	
8	Early Plant utc											108	204	302	408	
9	Normal Plant Fierce EZ	3.04 LBA/GAL		SC	0.19 lb ai/a	8 oz/a				B	PRE	109	205	314	415	
1	Early Plant Fierce EZ AMSOL Roundup Powermax 3 Enlist One	3.04 LBA/GAL	100 %	SC L	0.143 lb ai/a	6 oz/a	2.5 % v/v			A C	PRE POST	110	206	316	411	
		4.8 LB/GAL		L	1.12 lb ae/a	30 oz/a				C	POST					
		3.8 LBAE/GAL		L	1 qt/a					C	POST					
3	Early Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.143 lb ai/a	6 oz/a	0.375 lb ai/a	8 oz/a		A A	PRE PRE	111	208	313	406	
12	Normal Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.19 lb ai/a	8 oz/a	0.56 lb ai/a	12 oz/a		B B	PRE PRE	112	207	301	403	
5	Early Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.143 lb ai/a	6 oz/a	0.75 lb ai/a	16 oz/a		A A	PRE PRE	113	211	306	404	
13	Normal Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.19 lb ai/a	8 oz/a	0.75 lb ai/a	16 oz/a		B B	PRE PRE	114	203	312	407	
15	Normal Plant Preview 2:1	3.35 LBA/GAL		SC	0.6 lb ai/a	23 oz/a				B	PRE	115	209	305	412	
2	Early Plant Fierce EZ Metribuzin	3.04 LBA/GAL	75 %AW/W	SC DF	0.143 lb ai/a	6 oz/a	0.188 lb ai/a	4 oz/a		A A	PRE PRE	116	202	311	410	

Sort Order: Replicate 1