

# The Ohio State University

## Cereal Rye Cover Crop: Impact of Planting Soybean Early and Green on Weed Management and Crop Yield

Trial ID: 24-USB-OH  
 Protocol ID: 2024-USB-planting\_green Location: Ohio State Trial Year: 2024  
 Study Director: Guilherme Chudzik Sponsor Contact:  
 Investigator: Alyssa Essman

### Crop Description

Crop 1: C GLXMA Glycine max Soybean  
 Entry Date: Apr-24-2024 Stage Scale: BBCH  
 Variety: SC7332E  
 Planting Date: Apr-22-2024 Planting Rate: 155000 S/A  
 Depth: 1 IN  
 Rows per Plot: 4 Planting Method: PLANTD planted  
 Row Spacing: 30 IN Planting Equipment: FPP finger pickup planter  
 Seed Bed: MEDTRA medium/trashy  
 Soil Temperature: 60 F Soil Moisture: SLIWET slightly wet, moist  
 Emergence Date: May-8-2024

### Pest Description

Pest 1 Type: W Code: SETFA *Setaria faberi* Entry Date: Jun-13-2024  
 Common Name: Giant foxtail Stage Scale: BBCH  
 Pest 2 Type: W Code: AMBTR *Ambrosia trifida* Entry Date: Jun-13-2024  
 Common Name: Giant ragweed Stage Scale: BBCH  
 Pest 3 Type: W Code: CHEAL *Chenopodium album* Entry Date: Jun-13-2024  
 Common Name: common lambsquarters Stage Scale: BBCH  
 Pest 4 Type: W Code: SIDSP *Sida spinosa* Entry Date: Jun-13-2024  
 Common Name: Prickly sida Stage Scale: BBCH  
 Pest 5 Type: W Code: TAROF *Taraxacum officinale* Entry Date: Jun-13-2024  
 Common Name: dandelion Stage Scale: BBCH  
 Pest 6 Type: W Code: AMATU *Amaranthus tuberculatus* Entry Date: Jun-13-2024  
 Common Name: tall waterhemp Stage Scale: BBCH

### 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 FT<sup>2</sup> Tillage Type: NOTILL no-till  
 Replications: 4 Treatments: 14 Plots: 56 Study Design: RAOBL Randomized Complete Block (RCB)  
 Distance between Blocks: 1 FT  
 Distance between 'Plot' Experimental Units: 0.5 FT

### Application Description

	A	B	C	D	E	F	G
Date	Apr-22-2024	May-1-2024	May-8-2024	May-10-2024	May-21-2024	May-24-2024	Jun-3-2024
Start Time	7:15 PM	8:30 AM	9:00 AM	7:30 PM	8:30 AM	8:15 AM	2:00 PM
Stop Time	7:30 PM	8:40 AM	9:10 AM	7:43 PM	8:35 AM	8:20 AM	2:05 PM
Method	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY	SPRAY
Timing	ATPLAN	ATGERM	ATEMERGE	VC	V1	V2	V3
Placement	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL	BROFOL
Mixed/Prepared By	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay
Applied By	John McCormick	Tony Dobbels	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay
Entry Date	Apr-24-2024	May-1-2024	May-9-2024	May-14-2024	May-22-2024	May-30-2024	Jun-5-2024
Air Temperature Start, Stop	58, 58 F	62, 62 F	65, 65 F	60.2, 60.2 F	69, 69 F	63, 63 F	79, 79 F
% Relative Humidity Start, Stop	38, -	63, 63	86, 86	39, 39	73, 73	91, 91	58, 58
Wind Velocity+Dir. Start	8 MPH, SSW	3 MPH, S	7 MPH, WSW	4 MPH, N	6 MPH, SSW	3 MPH, S	4 MPH, SSW
Wind Velocity+Dir. Stop		4 MPH, S	7 MPH, WSW	4 MPH, N	6 MPH, SSW	3 MPH, S	4 MPH, SSW
Wind Velocity+Dir. Max		6 MPH, S	7 MPH, WSW	5.6 MPH, N	6 MPH, SSW	3 MPH, S	4 MPH, SSW
Wet Leaves (Y/N)	N, no	Y, yes	Y, yes	N, no	N, no	N, no	N, no
Soil Temperature	60 F	54 F	61 F	64 F	62 F	62 F	78 F
Soil Temperature Depth	6 IN	6 IN	6 IN	6 IN	6 IN	6 IN	6 IN
Soil Moisture	SLIDRY	SLIWET	SLIWET	SLIDRY	DRY	DRY	DRY
Soil Surface Condition	MEDTRA	MEDTRA	MEDTRA	MEDTRA	MEDTRA	MEDTRA	MEDTRA
% Ground Cover	100						
% Cloud Cover	15	15	0	0	20	100	0
First Moisture Occurred On	Apr-23-2024	May-6-2024	May-9-2024	May-10-2024			
Time to First Moisture	12.0 HR	5.0 DAY	1.0 DAY	5.0 HR			
Amount of First Moisture	0.15 IN	0.35 IN	0.21 IN	0.13 IN			
Moisture 1 Week Before Appl.	0.25 IN	0.35 IN	0.39 IN	0.85 IN			
Moisture 6 Hours After Appl.	0 IN	0 IN	0 IN	0.13 IN			
Moisture 24 Hours After Appl.	0.15 IN	0 IN	0.21 IN	0.24 IN			
Moisture 1 Week After Appl.	0.35 IN	0.64 IN	0.9 IN	0.69 IN			
Problems with Application?	N, no	N, no	N, no	N, no			

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	H	I	J	K
Date	Jun-7-2024	Jun-11-2024	Jun-13-2024	Jun-21-2024
Start Time	8:07 AM	9:30 AM	8:15 AM	7:40 AM
Stop Time	8:10 AM	9:40 AM	8:18 AM	8:00 AM
Method	SPRAY	SPRAY	SPRAY	SPRAY
Timing	POST (TRT 1)	POST TRT2-3	POST TRT5	POST (rest)
Placement	BROFOL	BROFOL	BROFOL	BROFOL
Mixed/Prepared By	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay
Applied By	Colin Barclay	Colin Barclay	Colin Barclay	Colin Barclay
Entry Date	Jun-13-2024	Jun-13-2024	Jun-13-2024	Jun-26-2024
Air Temperature Start, Stop	65, 65 F	63.3, 63.3 F	69, 63.3 F	78, 78 F
% Relative Humidity Start, Stop	59, 59	56, 56	61, 61	65, 65
Wind Velocity+Dir. Start	7 MPH, W	1.1 MPH, S	4 MPH, S	3.7 mph, W
Wind Velocity+Dir. Stop	6.3 MPH, W	1.1 MPH, S	4 MPH, S	4.1 mph, W
Wind Velocity+Dir. Max	9.2 MPH, W	1.7 MPH, S	4 MPH, S	4.3 mph, W
Wet Leaves (Y/N)	N, no	N, no	N, no	N, no
Soil Temperature	61 F	62 F	63 F	73 F
Soil Temperature Depth	6 IN	6 IN	6 IN	6 IN
Soil Moisture	SLIWET	DRY	DRY	DRY
Soil Surface Condition	MEDTRA	MEDTRA	MEDTRA	MEDTRA
% Ground Cover				
% Cloud Cover	0	0	0	5
First Moisture Occurred On				
Time to First Moisture				
Amount of First Moisture				
Moisture 1 Week Before Appl.				
Moisture 6 Hours After Appl.				
Moisture 24 Hours After Appl.				
Moisture 1 Week After Appl.				
Problems with Application?				

### Crop Stage At Each Application

	A	B	C	D	E	F	G
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	-16	-7		2	13	16	26
Stage Majority, Percent							
Stage Minimum, Percent							
Stage Maximum, Percent							
Height Average							

	H	I	J	K
Crop 1 Code, BBCH Scale	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY	GLXMA, BSOY
Days after Emergence	30	34	36	44
Stage Majority, Percent	14, 80	14, 90	14, 80	
Stage Minimum, Percent	13, 20	15, 10	15, 20	
Stage Maximum, Percent	14, 80	14, 90	14, 80	
Height Average	10 IN			

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 Investigator: Alyssa Essman

### Pest Stage At Each Application

	A	B	C	D	E
Pest 1 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Height Average					
Height Minimum, Maximum					
Pest 2 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Height Average					
Height Minimum, Maximum					
Pest 3 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Height Average					
Height Minimum, Maximum					
Pest 4 Code, Type, Scale	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Height Average					
Height Minimum, Maximum					
Pest 5 Code, Type, Scale	TAROF, W, BBCH	TAROF, W, BBCH	TAROF, W, BBCH	TAROF, W, BBCH	TAROF, W, BBCH
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Diameter Average					
Diameter Minimum, Maximum					
Height Average					
Height Minimum, Maximum					
Pest 6 Code, Type, Scale	AMATU, W, BBCH	AMATU, W, BBCH	AMATU, W, BBCH	AMATU, W, BBCH	AMATU, W, BBCH
Stage Majority, Percent					
Stage Minimum, Percent					
Stage Maximum, Percent					
Height Average					
Height Minimum, Maximum					

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	F	G	H	I	J
Pest 1 Code, Type, Scale	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH	SETFA, W, BBCH
Stage Majority, Percent			3, 60		
Stage Minimum, Percent			4, 40		
Stage Maximum, Percent			3, 60		
Height Average			3 IN		
Height Minimum, Maximum			2, 8		
Pest 2 Code, Type, Scale	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH	AMBTR, W, BBCH
Stage Majority, Percent			>12, 80		
Stage Minimum, Percent			<12, 20		
Stage Maximum, Percent			>12, 80		
Height Average			12 IN		
Height Minimum, Maximum			8, 14		
Pest 3 Code, Type, Scale	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH	CHEAL, W, BBCH
Stage Majority, Percent			14, 80		
Stage Minimum, Percent			16, 20		
Stage Maximum, Percent			14, 80		
Height Average			2 IN		
Height Minimum, Maximum			1, 2		
Pest 4 Code, Type, Scale	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH	SIDSP, W, BBCH
Stage Majority, Percent			13, 80		
Stage Minimum, Percent			14, 20		
Stage Maximum, Percent			13, 80		
Height Average			3 IN		
Height Minimum, Maximum			3, 4		
Pest 5 Code, Type, Scale	TAROF, W, BBCH	TAROF, W, BBCH	TAROF, W, BBCH	TAROF, W, BBCH	TAROF, W, BBCH
Stage Majority, Percent			>12, 80		
Stage Minimum, Percent			8, 20		
Stage Maximum, Percent			>12, 80		
Diameter Average			6 IN		
Diameter Minimum, Maximum			4, 6		
Height Average			2 IN		
Height Minimum, Maximum			1, 2		
Pest 6 Code, Type, Scale	AMATU, W, BBCH	AMATU, W, BBCH	AMATU, W, BBCH	AMATU, W, BBCH	AMATU, W, BBCH
Stage Majority, Percent			12, 70		
Stage Minimum, Percent			13, 30		
Stage Maximum, Percent			12, 70		
Height Average			2.5 IN		
Height Minimum, Maximum			1, 6		

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	K
Pest 1 Code, Type, Scale	SETFA, W, BBCH
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Height Average	
Height Minimum, Maximum	
Pest 2 Code, Type, Scale	AMBTR, W, BBCH
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Height Average	
Height Minimum, Maximum	
Pest 3 Code, Type, Scale	CHEAL, W, BBCH
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Height Average	
Height Minimum, Maximum	
Pest 4 Code, Type, Scale	SIDSP, W, BBCH
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Height Average	
Height Minimum, Maximum	
Pest 5 Code, Type, Scale	TAROF, W, BBCH
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Diameter Average	
Diameter Minimum, Maximum	
Height Average	
Height Minimum, Maximum	
Pest 6 Code, Type, Scale	AMATU, W, BBCH
Stage Majority, Percent	
Stage Minimum, Percent	
Stage Maximum, Percent	
Height Average	
Height Minimum, Maximum	

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Appl Unit	Rep Code	1	2	3	4	Notes
2	Roundup PowerMAX 3	4.8	LB/AE/GAL	SL	30 fl oz/a	A	101	212	306	409		
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	A						
	AMS	100 %		L	2.5 % v/v	A						
	Zidua SC	4.17	LB/GAL	SC	5 fl oz/a	A						
	Enlist One	3.8	LB/AE/GAL	SL	32 fl oz/a	H						
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	H						
	Warrant	3	LB/GAL	CS	48 fl oz/a	H						
AMS	100 %		L	2.5 % v/v	H							
7	Roundup PowerMAX 3	4.8	LB/AE/GAL	SL	30 fl oz/a	D	102	208	311	404		
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	D						
	AMS	100 %		L	2.5 % v/v	D						
	Enlist One	3.8	LB/AE/GAL	SL	32 fl oz/a	H						
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	H						
	Warrant	3	LB/GAL	CS	48 fl oz/a	H						
	AMS	100 %		L	2.5 % v/v	H						
1	Roundup PowerMAX 3	4.8	LB/AE/GAL	SL	30 fl oz/a	A	103	211	302	412		
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	A						
	AMS	100 %		L	2.5 % v/v	A						
	Enlist One	3.8	LB/AE/GAL	SL	32 fl oz/a	H						
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	H						
	Warrant	3	LB/GAL	CS	48 fl oz/a	H						
	AMS	100 %		L	2.5 % v/v	H						
11	Roundup PowerMAX 3	4.8	LB/AE/GAL	SL	30 fl oz/a	F	104	213	303	408		
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	F						
	AMS	100 %		L	2.5 % v/v	F						
	Enlist One	3.8	LB/AE/GAL	SL	32 fl oz/a	H						
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	H						
	Warrant	3	LB/GAL	CS	48 fl oz/a	H						
	AMS	100 %		L	2.5 % v/v	H						

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Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit	Appl Code	Rep 1	Rep 2	Rep 3	Rep 4	Notes
3	Roundup Liberty AMS Enlist One Liberty Warrant AMS	4.8 2.34 100 % 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LBAE/GAL LB/GAL LB/GAL %	SL SL L SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	B B B H H H H	105	214	309	406		
8	Roundup Liberty AMS Zidua SC Enlist One Liberty Warrant AMS	4.8 2.34 100 % 4.17 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LB/GAL LBAE/GAL LB/GAL LB/GAL %	SL SL L SC SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 5 fl oz/a 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	D D D D H H H H	106	202	314	411		
10	Roundup Liberty AMS Zidua SC Enlist One Liberty Warrant AMS	4.8 2.34 100 % 4.17 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LB/GAL LBAE/GAL LB/GAL LB/GAL %	SL SL L SC SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 5 fl oz/a 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	E E E E H H H H	107	205	312	403		
5	Roundup Liberty AMS Enlist One Liberty Warrant AMS	4.8 2.34 100 % 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LBAE/GAL LB/GAL LB/GAL %	SL SL L SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	C C C H H H H	108	201	313	405		
4	Roundup Liberty AMS Zidua SC Enlist One Liberty Warrant AMS	4.8 2.34 100 % 4.17 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LB/GAL LBAE/GAL LB/GAL LB/GAL %	SL SL L SC SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 5 fl oz/a 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	B B B B H H H H	109	203	310	414		
13	Roundup Liberty AMS Enlist One Liberty Warrant AMS	4.8 2.34 100 % 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LBAE/GAL LB/GAL LB/GAL %	SL SL L SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	G G G H H H H	110	204	301	407		
6	Roundup Liberty AMS Zidua SC Enlist One Liberty Warrant AMS	4.8 2.34 100 % 4.17 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LB/GAL LBAE/GAL LB/GAL LB/GAL %	SL SL L SC SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 5 fl oz/a 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	C C C C H H H H	111	207	304	402		
12	Roundup Liberty AMS Zidua SC Enlist One Liberty Warrant AMS	4.8 2.34 100 % 4.17 3.8 2.34 3 100 %	LBAE/GAL LB/GAL % LB/GAL LBAE/GAL LB/GAL LB/GAL %	SL SL L SC SL SL CS L	30 fl oz/a 32 fl oz/a 2.5 % v/v 5 fl oz/a 32 fl oz/a 32 fl oz/a 48 fl oz/a 2.5 % v/v	F F F F H H H H	112	206	308	413		

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9	Roundup PowerMAX 3	4.8	LB/AE/GAL	SL	30 fl oz/a	E	113	209	307	401		
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	E						
	AMS	100 %		L	2.5 % v/v	E						
	Enlist One	3.8	LB/AE/GAL	SL	32 fl oz/a	H						
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	H						
	Warrant	3	LB/GAL	CS	48 fl oz/a	H						
	AMS	100 %		L	2.5 % v/v	H						
14	Roundup PowerMAX 3	4.8	LB/AE/GAL	SL	30 fl oz/a	G	114	210	305	410		
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	G						
	AMS	100 %		L	2.5 % v/v	G						
	Zidua SC	4.17	LB/GAL	SC	5 fl oz/a	G						
	Enlist One	3.8	LB/AE/GAL	SL	32 fl oz/a	H						
	Liberty	2.34	LB/GAL	SL	32 fl oz/a	H						
	Warrant	3	LB/GAL	CS	48 fl oz/a	H						
	AMS	100 %		L	2.5 % v/v	H						

Sort Order: Replicate 1