

Glyphosate-resistant common ragweed control in soybean

Trial ID: SOY22-25
 Conducted: MSU Mason Farm

Study Dir.: Stiles, Sprague
 Investigator: Christy Sprague

Planting Date: May-29-2025
Variety: P27Z41E
Population: 150000 S/A
Soil Type:
Plot Size: 10 X 35 FT

Row Spacing: 30 "
No. of Reps: 4
% OM:
pH:
Study Design: Randomized Complete Block (RCB)

Tillage/Previous Crops: Fallfield cultivated; spring soil finished twice.

Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	mostly foxtail species and barnyardgrass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMBEL	common ragweed	Ambrosia artemisiifolia
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May-29-2025	Jul-2-2025
Time Treated:	2:00 PM	1:30 PM
% Cloud Cover:	80	60
Air Temp., Unit:	61 F	84 F
% Relative Humidity:	75	52
Wind Speed/Unit/Dir:	8 MPH W	5 MPH W
Soil Temp, Unit:	60 F	83 F
Leaf Moist/Dew Presence (Y/N):	N	N
Soil Moist:	5	5

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		8-10 " (9)
Stage:		V3

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		2-10 " (4)
Stage:		4-12L
Weed 2 Name:	CHEAL	CHEAL
Height:		2-10 " (6)
Stage:		2-6L
Weed 3 Name:	AMBEL	AMBEL
Height:		1-10 " (4)
Stage:		4-20+L

Application Equipment

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 MPH	AIXR	11003	18.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.8 MPH	AIXR	11003	30.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments: The common ragweed population at this location is glyphosate-resistant (Group 9).

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Investigator: Christy Sprague

Rating Date					Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-16-2025	Jul-16-2025
Rating Type					injury	control	control	control	control	injury	control
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code					C, GLXMA					C, GLXMA	
Pest Code						ANGR	CHEAL	AMAPO	AMBEL		ANGR
Treatment Appl. Interval					34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	14 DA-B	14 DA-B
Number of Decimals					0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing						
1	Untreated					0	0	0	0	0	0
2	Dual II Magnum	1.33 pt/a	A	PRE		0	100	8	100	0	100
	Roundup PowerMax	30 fl oz/a	B	POST							
	AMS	17 lb/100 gal	B	POST							
3	Dual II Magnum	1.33 pt/a	A	PRE		0	100	8	100	0	100
	Roundup PowerMax	60 fl oz/a	B	POST							
	AMS	17 lb/100 gal	B	POST							
4	Dual II Magnum	1.33 pt/a	A	PRE		0	100	8	100	0	100
	Roundup PowerMax	90 fl oz/a	B	POST							
	AMS	17 lb/100 gal	B	POST							
5	Dual II Magnum	1.33 pt/a	A	PRE		0	99	8	99	0	100
	Liberty Ultra	24 fl oz/a	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
6	Dual II Magnum	1.33 pt/a	A	PRE		0	100	8	100	0	100
	Liberty Ultra	29 fl oz/a	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
7	Dual II Magnum	1.33 pt/a	A	PRE		0	98	8	100	0	100
	Enlist One	2 pt/a	B	POST							
	Roundup PowerMax	30 fl oz/a	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
8	Dual II Magnum	1.33 pt/a	A	PRE		0	100	8	100	0	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	2 pt/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
9	Dual II Magnum	1.33 pt/a	A	PRE		0	99	8	100	0	100
	Flexstar	1 pt/a	B	POST						2	
	Roundup PowerMax	30 fl oz/a	B	POST							
	Crop oil concentrate	1 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
10	Dual II Magnum	1.33 pt/a	A	PRE		0	99	8	100	0	100
	Cobra	12.5 fl oz/a	B	POST						14	
	Roundup PowerMax	30 fl oz/a	B	POST							
	Crop oil concentrate	1 % v/v	B	POST							
	AMS	2 lb/a	B	POST							
11	Dual II Magnum	1.33 pt/a	A	PRE		0	98	8	98	0	99
	Ultra Blazer	1.5 pt/a	B	POST						7	
	Roundup PowerMax	30 fl oz/a	B	POST							
	Surfactant	0.25 % v/v	B	POST							
12	Dual II Magnum	1.33 pt/a	A	PRE		0	100	8	100	0	100
	FirstRate	0.3 oz/a	B	POST							
	Roundup PowerMax	30 fl oz/a	B	POST							
	Surfactant	0.25 % v/v	B	POST							
	AMS	2 lb/a	B	POST							
13	Dual II Magnum	1.33 pt/a	A	PRE		0	100	8	100	0	100
	Flexstar	1 pt/a	B	POST						3	
	Enlist One	2 pt/a	B	POST							
	Roundup PowerMax	30 fl oz/a	B	POST							
	Crop oil concentrate	1 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

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Investigator: Christy Sprague

Rating Date					Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-2-2025	Jul-16-2025	Jul-16-2025
Rating Type					injury	control	control	control	control	injury	control
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code					C, GLXMA					C, GLXMA	
Pest Code						ANGR	CHEAL	AMAPO	AMBEL		ANGR
Treatment Appl. Interval					34 DA-A	34 DA-A	34 DA-A	34 DA-A	34 DA-A	14 DA-B	14 DA-B
Number of Decimals					0	0	0	0	0	0	0
Trt	Treatment	Rate	Appl	Appl							
No.	Name	Rate Unit	Code	Timing							
14	Metribuzin	8 oz/a	A	PRE	0	0	20	100	49	1	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	2 pt/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
15	Valor EZ	2 fl oz/a	A	PRE	1	15	99	100	96	0	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	2 pt/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
16	Fierce EZ	6 fl oz/a	A	PRE	9	99	100	100	99	0	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	2 pt/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
17	Fierce MTZ	16 fl oz/a	A	PRE	8	99	100	100	99	0	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	2 pt/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
18	Prefix	2 pt/a	A	PRE	0	100	90	100	95	2	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	24 fl oz/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
19	Tendovo	1.75 qt/a	A	PRE	8	99	100	100	98	2	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	2 pt/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
20	Zidua PRO	6 fl oz/a	A	PRE	5	100	100	100	97	0	100
	Liberty Ultra	24 fl oz/a	B	POST							
	Enlist One	2 pt/a	B	POST							
	MSO	0.5 % v/v	B	POST							
	AMS	8.5 lb/100 gal	B	POST							
LSD P=.05					4.0	9.9	11.7	1.6	13.2	1.1	0.6
Standard Deviation					2.9	7.0	8.2	1.2	9.3	0.7	0.4
CV					191.89	8.18	23.63	1.22	29.46	48.61	0.42

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Rating Date					Jul-16-2025	Jul-16-2025	Jul-16-2025	Aug-1-2025	Aug-1-2025	Aug-1-2025	Aug-1-2025
Rating Type					control	control	control	injury	control	control	control
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code					C, GLXMA						
Pest Code					CHEAL	AMAPO	AMBEL		ANGR	CHEAL	AMAPO
Treatment Appl. Interval					14 DA-B	48 DA-A	14 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B
Number of Decimals					0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing						
1	Untreated					0	0	0	0	0	0
2	Dual II Magnum	1.33	pt/a	A	PRE	99	100	83	0	100	100
	Roundup PowerMax	30	fl oz/a	B	POST						
	AMS	17	lb/100 gal	B	POST						
3	Dual II Magnum	1.33	pt/a	A	PRE	100	100	79	0	100	100
	Roundup PowerMax	60	fl oz/a	B	POST						
	AMS	17	lb/100 gal	B	POST						
4	Dual II Magnum	1.33	pt/a	A	PRE	100	100	94	0	100	100
	Roundup PowerMax	90	fl oz/a	B	POST						
	AMS	17	lb/100 gal	B	POST						
5	Dual II Magnum	1.33	pt/a	A	PRE	100	100	100	0	100	100
	Liberty Ultra	24	fl oz/a	B	POST						
	AMS	8.5	lb/100 gal	B	POST						
6	Dual II Magnum	1.33	pt/a	A	PRE	100	100	100	0	100	100
	Liberty Ultra	29	fl oz/a	B	POST						
	AMS	8.5	lb/100 gal	B	POST						
7	Dual II Magnum	1.33	pt/a	A	PRE	100	100	100	0	100	100
	Enlist One	2	pt/a	B	POST						
	Roundup PowerMax	30	fl oz/a	B	POST						
	AMS	8.5	lb/100 gal	B	POST						
8	Dual II Magnum	1.33	pt/a	A	PRE	100	100	100	0	100	100
	Liberty Ultra	24	fl oz/a	B	POST						
	Enlist One	2	pt/a	B	POST						
	MSO	0.5	% v/v	B	POST						
	AMS	8.5	lb/100 gal	B	POST						
9	Dual II Magnum	1.33	pt/a	A	PRE	99	100	100	0	100	100
	Flexstar	1	pt/a	B	POST						
	Roundup PowerMax	30	fl oz/a	B	POST						
	Crop oil concentrate	1	% v/v	B	POST						
	AMS	8.5	lb/100 gal	B	POST						
10	Dual II Magnum	1.33	pt/a	A	PRE	99	100	100	0	100	100
	Cobra	12.5	fl oz/a	B	POST						
	Roundup PowerMax	30	fl oz/a	B	POST						
	Crop oil concentrate	1	% v/v	B	POST						
	AMS	2	lb/a	B	POST						
11	Dual II Magnum	1.33	pt/a	A	PRE	98	100	93	0	100	100
	Ultra Blazer	1.5	pt/a	B	POST						
	Roundup PowerMax	30	fl oz/a	B	POST						
	Surfactant	0.25	% v/v	B	POST						
12	Dual II Magnum	1.33	pt/a	A	PRE	100	100	86	0	100	100
	FirstRate	0.3	oz/a	B	POST						
	Roundup PowerMax	30	fl oz/a	B	POST						
	Surfactant	0.25	% v/v	B	POST						
	AMS	2	lb/a	B	POST						
13	Dual II Magnum	1.33	pt/a	A	PRE	100	100	100	0	100	100
	Flexstar	1	pt/a	B	POST						
	Enlist One	2	pt/a	B	POST						
	Roundup PowerMax	30	fl oz/a	B	POST						
	Crop oil concentrate	1	% v/v	B	POST						
	AMS	8.5	lb/100 gal	B	POST						

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Protocol ID: SOY22-25 Location: MSU Mason Farm Trial Year: 2025

Study Director: Stiles, Sprague Sponsor Contact:

Investigator: Christy Sprague

Rating Date					Jul-16-2025	Jul-16-2025	Jul-16-2025	Aug-1-2025	Aug-1-2025	Aug-1-2025	Aug-1-2025
Rating Type					control	control	control	injury	control	control	control
Rating Unit					%	%	%	%	%	%	%
Crop Type, Code					C, GLXMA						
Pest Code					CHEAL	AMAPO	AMBEL		ANGR	CHEAL	AMAPO
Treatment Appl. Interval					14 DA-B	48 DA-A	14 DA-B	30 DA-B	30 DA-B	30 DA-B	30 DA-B
Number of Decimals					0	0	0	0	0	0	0
Trt Treatment	Rate	Appl	Appl								
No. Name	Rate Unit	Code	Timing								
14 Metribuzin	8 oz/a	A	PRE		100	100	100	0	100	100	100
Liberty Ultra	24 fl oz/a	B	POST								
Enlist One	2 pt/a	B	POST								
MSO	0.5 % v/v	B	POST								
AMS	8.5 lb/100 gal	B	POST								
15 Valor EZ	2 fl oz/a	A	PRE		100	100	100	0	100	100	100
Liberty Ultra	24 fl oz/a	B	POST								
Enlist One	2 pt/a	B	POST								
MSO	0.5 % v/v	B	POST								
AMS	8.5 lb/100 gal	B	POST								
16 Fierce EZ	6 fl oz/a	A	PRE		100	100	100	0	100	100	100
Liberty Ultra	24 fl oz/a	B	POST								
Enlist One	2 pt/a	B	POST								
MSO	0.5 % v/v	B	POST								
AMS	8.5 lb/100 gal	B	POST								
17 Fierce MTZ	16 fl oz/a	A	PRE		100	100	100	0	100	100	100
Liberty Ultra	24 fl oz/a	B	POST								
Enlist One	2 pt/a	B	POST								
MSO	0.5 % v/v	B	POST								
AMS	8.5 lb/100 gal	B	POST								
18 Prefix	2 pt/a	A	PRE		100	100	100	0	100	100	100
Liberty Ultra	24 fl oz/a	B	POST								
Enlist One	24 fl oz/a	B	POST								
MSO	0.5 % v/v	B	POST								
AMS	8.5 lb/100 gal	B	POST								
19 Tendovo	1.75 qt/a	A	PRE		100	100	100	0	100	100	100
Liberty Ultra	24 fl oz/a	B	POST								
Enlist One	2 pt/a	B	POST								
MSO	0.5 % v/v	B	POST								
AMS	8.5 lb/100 gal	B	POST								
20 Zidua PRO	6 fl oz/a	A	PRE		100	100	100	0	100	100	100
Liberty Ultra	24 fl oz/a	B	POST								
Enlist One	2 pt/a	B	POST								
MSO	0.5 % v/v	B	POST								
AMS	8.5 lb/100 gal	B	POST								
LSD P=.05					1.4	.	12.0	.	.	.	.
Standard Deviation					1.0	0.0	8.5	0.0	0.0	0.0	0.0
CV					1.03	0.0	9.27	0.0	0.0	0.0	0.0

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Rating Date					Aug-1-2025	Aug-1-2025		
Rating Type					control	control	moisture	yield
Rating Unit					%	%	%	bu/A
Crop Type, Code							C, GLXMA	C, GLXMA
Pest Code					AMBEL	ABUTH		
Treatment Appl. Interval					30 DA-B	30 DA-B	120 DA-B	@13% M
Number of Decimals					0	0	1	1
Trt No.	Treatment Name	Rate	Unit	Appl Code	Appl Timing			
1	Untreated					0	0	15.6
2	Dual II Magnum	1.33	pt/a	A	PRE	83	100	26.7
	Roundup PowerMax	30	fl oz/a	B	POST			65.3
	AMS	17	lb/100 gal	B	POST			
3	Dual II Magnum	1.33	pt/a	A	PRE	80	100	12.4
	Roundup PowerMax	60	fl oz/a	B	POST			65.2
	AMS	17	lb/100 gal	B	POST			
4	Dual II Magnum	1.33	pt/a	A	PRE	93	100	12.9
	Roundup PowerMax	90	fl oz/a	B	POST			64.8
	AMS	17	lb/100 gal	B	POST			
5	Dual II Magnum	1.33	pt/a	A	PRE	100	100	13.2
	Liberty Ultra	24	fl oz/a	B	POST			60.2
	AMS	8.5	lb/100 gal	B	POST			
6	Dual II Magnum	1.33	pt/a	A	PRE	100	100	13.4
	Liberty Ultra	29	fl oz/a	B	POST			67.1
	AMS	8.5	lb/100 gal	B	POST			
7	Dual II Magnum	1.33	pt/a	A	PRE	100	100	12.8
	Enlist One	2	pt/a	B	POST			68.1
	Roundup PowerMax	30	fl oz/a	B	POST			
	AMS	8.5	lb/100 gal	B	POST			
8	Dual II Magnum	1.33	pt/a	A	PRE	100	100	12.9
	Liberty Ultra	24	fl oz/a	B	POST			60.2
	Enlist One	2	pt/a	B	POST			
	MSO	0.5	% v/v	B	POST			
	AMS	8.5	lb/100 gal	B	POST			
9	Dual II Magnum	1.33	pt/a	A	PRE	100	100	12.8
	Flexstar	1	pt/a	B	POST			61.0
	Roundup PowerMax	30	fl oz/a	B	POST			
	Crop oil concentrate	1	% v/v	B	POST			
	AMS	8.5	lb/100 gal	B	POST			
10	Dual II Magnum	1.33	pt/a	A	PRE	100	100	12.7
	Cobra	12.5	fl oz/a	B	POST			59.3
	Roundup PowerMax	30	fl oz/a	B	POST			
	Crop oil concentrate	1	% v/v	B	POST			
	AMS	2	lb/a	B	POST			
11	Dual II Magnum	1.33	pt/a	A	PRE	95	100	12.7
	Ultra Blazer	1.5	pt/a	B	POST			56.4
	Roundup PowerMax	30	fl oz/a	B	POST			
	Surfactant	0.25	% v/v	B	POST			
12	Dual II Magnum	1.33	pt/a	A	PRE	96	100	12.5
	FirstRate	0.3	oz/a	B	POST			63.6
	Roundup PowerMax	30	fl oz/a	B	POST			
	Surfactant	0.25	% v/v	B	POST			
	AMS	2	lb/a	B	POST			
13	Dual II Magnum	1.33	pt/a	A	PRE	100	100	12.9
	Flexstar	1	pt/a	B	POST			60.8
	Enlist One	2	pt/a	B	POST			
	Roundup PowerMax	30	fl oz/a	B	POST			
	Crop oil concentrate	1	% v/v	B	POST			
	AMS	8.5	lb/100 gal	B	POST			

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

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Rating Date					Aug-1-2025	Aug-1-2025		
Rating Type					control	control	moisture	yield
Rating Unit					%	%	%	bu/A
Crop Type, Code							C, GLXMA	C, GLXMA
Pest Code					AMBEL	ABUTH		
Treatment Appl. Interval					30 DA-B	30 DA-B	120 DA-B	@13% M
Number of Decimals					0	0	1	1
Trt	Treatment	Rate	Appl	Appl				
No.	Name	Rate Unit	Code	Timing				
14	Metribuzin	8 oz/a	A	PRE	100	100	12.4	65.4
	Liberty Ultra	24 fl oz/a	B	POST				
	Enlist One	2 pt/a	B	POST				
	MSO	0.5 % v/v	B	POST				
	AMS	8.5 lb/100 gal	B	POST				
15	Valor EZ	2 fl oz/a	A	PRE	100	100	12.0	62.0
	Liberty Ultra	24 fl oz/a	B	POST				
	Enlist One	2 pt/a	B	POST				
	MSO	0.5 % v/v	B	POST				
	AMS	8.5 lb/100 gal	B	POST				
16	Fierce EZ	6 fl oz/a	A	PRE	100	100	12.6	63.8
	Liberty Ultra	24 fl oz/a	B	POST				
	Enlist One	2 pt/a	B	POST				
	MSO	0.5 % v/v	B	POST				
	AMS	8.5 lb/100 gal	B	POST				
17	Fierce MTZ	16 fl oz/a	A	PRE	100	100	12.6	55.5
	Liberty Ultra	24 fl oz/a	B	POST				
	Enlist One	2 pt/a	B	POST				
	MSO	0.5 % v/v	B	POST				
	AMS	8.5 lb/100 gal	B	POST				
18	Prefix	2 pt/a	A	PRE	100	100	12.2	62.8
	Liberty Ultra	24 fl oz/a	B	POST				
	Enlist One	24 fl oz/a	B	POST				
	MSO	0.5 % v/v	B	POST				
	AMS	8.5 lb/100 gal	B	POST				
19	Tendovo	1.75 qt/a	A	PRE	100	100	13.0	61.4
	Liberty Ultra	24 fl oz/a	B	POST				
	Enlist One	2 pt/a	B	POST				
	MSO	0.5 % v/v	B	POST				
	AMS	8.5 lb/100 gal	B	POST				
20	Zidua PRO	6 fl oz/a	A	PRE	100	100	12.4	62.5
	Liberty Ultra	24 fl oz/a	B	POST				
	Enlist One	2 pt/a	B	POST				
	MSO	0.5 % v/v	B	POST				
	AMS	8.5 lb/100 gal	B	POST				
LSD P=.05					11.2	.	1.38	8.73
Standard Deviation					7.9	0.0	0.97	6.15
CV					8.55	0.0	7.6	10.15

Missing data estimates are included in columns: Average=1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18

Could not calculate LSD (% mean diff) or mean separation letters for columns 9,11,12,13,14,16 because error variance is 0.

Mean separation letters are 'na' (not applicable) when error variance is 0