

Impact of glyphosate and glufosinate tank-mixtures on weed control in soybean

Trial ID: SOY11-19 Study Dir.: Sprague, Powell, Stiles
 Conducted: Campus, C-18 Investigator: Christy Sprague

Planting Date: May-15-2019 **Row Spacing:** 30 IN
Variety: Stine 24EA12 Enlist E3 **No. of Reps:** 4
Population: 160000 seeds/A **% OM:** 2.5
Soil Type: L loam **pH:** 7.2
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall soil finish; spring soil finish (2X)
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	lambquarters, common	Chenopodium album
3	AMBEL	ragweed, common	Ambrosia artemisiifolia
4	SINAR	mustard, wild	Sinapis arvensis
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	May-15-2019	Jul-1-2019
Time Treated:	9:25 AM	9:00 AM
% Cloud Cover:	30	30
Air Temp., Unit:	56 F	73 F
% Relative Humidity:	74	66
Wind Speed/Unit/Dir:	4 mph SW	7 mph S
Soil Temp, Unit:	53 F	73 F
Leaf Moist/Dew Presence (Y/N):	5	5
Soil Moist:	4	4

Crop Stage at Each Application

	A	B
Crop 1 Name:	GLXMA	GLXMA
Height:		12 "
Stage:		V4

Weed Stage at Each Application

	A	B
Weed 1 Name:	ANGR	ANGR
Height:		2-6 " (4)
Stage:		2-4L
Weed 2 Name:	CHEAL	CHEAL
Height:		2-4 " (3)
Stage:		4-8L
Weed 3 Name:	AMBEL	AMBEL
Height:		4-8 " (6)
Stage:		4-12L
Weed 4 Name:	SINAR	SINAR
Height:		8 "
Stage:		flower

Weed Density

	1	2	3	4
Date:	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019
Weed Name:	ANGR	CHEAL	AMBEL	SINAR
Density:	85 ft2	9 ft2	60 ft2	3 ft2

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	20 "	20 "	100 "	19 GPA	WATER	30 psi
B	CUB	3.8 mph	AIXR	11003	30 "	20 "	100 "	19 GPA	WATER	30 psi

Comments:

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Study Director: Sprague, Powell, Stiles

Pest Code					ANGR	CHEAL	AMBEL	SINAR					
Crop Type, Code					GLXMA				GLXMA				
Rating Date					Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-1-2019	Jul-8-2019			
Rating Type					injury	control	control	control	control	injury			
Rating Unit					percent	percent	percent	percent	percent	percent			
Trt-Eval Interval					0 DA-B	0 DA-B	0 DA-B	0 DA-B	0 DA-B	7 DA-B			
Number of Decimals					0	0	0	0	0	0			
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
1	Zidua SC	4.17 L		3 fl oz/a		PRE	A	0	100	98	73	98	0
1	Liberty	2.34 L		32 fl oz/a		POST	B						
1	AMS		WG	3 lb/a		POST	B						
2	Zidua SC	4.17 L		3 fl oz/a		PRE	A	0	100	98	73	98	0
2	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
2	AMS		WG	3 lb/a		POST	B						
3	Zidua SC	4.17 L		3 fl oz/a		PRE	A	0	98	100	75	98	0
3	Liberty	2.34 L		32 fl oz/a		POST	B						
3	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
3	AMS		WG	3 lb/a		POST	B						
4	Untreated							0	0	0	0	0	0
5	Zidua SC	4.17 L		3 fl oz/a		PRE	A	0	99	100	75	100	0
5	Liberty	2.34 L		32 fl oz/a		POST	B						
5	SelectMax	0.97 L		12 fl oz/a		POST	B						
5	AMS		WG	3 lb/a		POST	B						
6	Zidua SC	4.17 L		3 fl oz/a		PRE	A	0	96	100	77	100	0
6	Liberty	2.34 L		32 fl oz/a		POST	B						
6	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
6	Outlook	6 L		10 fl oz/a		POST	B						
6	AMS		WG	3 lb/a		POST	B						
7	Zidua SC	4.17 L		3 fl oz/a		PRE	A	0	97	100	74	100	0
7	Liberty	2.34 L		32 fl oz/a		POST	B						
7	Roundup PowerMax	4.5 SL		24 fl oz/a		POST	B						
7	AMS		WG	3 lb/a		POST	B						
8	Zidua SC	4.17 L		3 fl oz/a		PRE	A	0	100	99	75	100	0
8	Liberty	2.34 L		32 fl oz/a		POST	B						
8	Roundup PowerMax	4.5 SL		16 fl oz/a		POST	B						
8	AMS		WG	3 lb/a		POST	B						
LSD P=.05													
Standard Deviation					0.0	4.6	2.5	4.2	4.4	0.0			
CV					0.0	3.1	1.7	2.9	3.0	0.0			
					0.0	3.59	1.98	4.43	3.48	0.0			

Could not calculate LSD (% mean diff) for columns 1,6,7,8,9,11,13,16,19,20,23,27,30 because error mean square = 0.

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH	SINAR
Crop Type, Code						
Rating Date	Jul-8-2019	Jul-8-2019	Jul-8-2019	Jul-8-2019	Jul-8-2019	Jul-8-2019
Rating Type	control	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code						
1	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	100	100	100
1	Liberty	2.34 L		32 fl oz/a		POST	B						
1	AMS		WG	3 lb/a		POST	B						
2	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	97	100	99
2	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
2	AMS		WG	3 lb/a		POST	B						
3	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	100	100	100
3	Liberty	2.34 L		32 fl oz/a		POST	B						
3	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
3	AMS		WG	3 lb/a		POST	B						
4	Untreated							0	0	0	0	0	0
5	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	100	100	100
5	Liberty	2.34 L		32 fl oz/a		POST	B						
5	SelectMax	0.97 L		12 fl oz/a		POST	B						
5	AMS		WG	3 lb/a		POST	B						
6	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	100	100	100
6	Liberty	2.34 L		32 fl oz/a		POST	B						
6	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B						
6	Outlook	6 L		10 fl oz/a		POST	B						
6	AMS		WG	3 lb/a		POST	B						
7	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	100	100	100
7	Liberty	2.34 L		32 fl oz/a		POST	B						
7	Roundup PowerMax	4.5 SL		24 fl oz/a		POST	B						
7	AMS		WG	3 lb/a		POST	B						
8	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	100	100	100
8	Liberty	2.34 L		32 fl oz/a		POST	B						
8	Roundup PowerMax	4.5 SL		16 fl oz/a		POST	B						
8	AMS		WG	3 lb/a		POST	B						
	LSD P=.05							.	.	.	3.1	.	0.8
	Standard Deviation							0.0	0.0	0.0	2.1	0.0	0.5
	CV							0.0	0.0	0.0	2.43	0.0	0.61

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Pest Code	GLXMA	ANGR	CHEAL	AMAPO	AMBEL
Crop Type, Code	Jul-15-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019	Jul-15-2019
Rating Date	injury	control	control	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Zidua SC	4.17 L	L	3 fl oz/a	PRE	A		0	100	100	100	100
1	Liberty	2.34 L	L	32 fl oz/a	POST	B						
1	AMS	WG		3 lb/a	POST	B						
2	Zidua SC	4.17 L	L	3 fl oz/a	PRE	A		0	100	100	100	99
2	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
2	AMS	WG		3 lb/a	POST	B						
3	Zidua SC	4.17 L	L	3 fl oz/a	PRE	A		0	100	100	100	100
3	Liberty	2.34 L	L	32 fl oz/a	POST	B						
3	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
3	AMS	WG		3 lb/a	POST	B						
4	Untreated							0	0	0	0	0
5	Zidua SC	4.17 L	L	3 fl oz/a	PRE	A		0	100	100	100	100
5	Liberty	2.34 L	L	32 fl oz/a	POST	B						
5	SelectMax	0.97 L	L	12 fl oz/a	POST	B						
5	AMS	WG		3 lb/a	POST	B						
6	Zidua SC	4.17 L	L	3 fl oz/a	PRE	A		0	100	100	100	100
6	Liberty	2.34 L	L	32 fl oz/a	POST	B						
6	Roundup PowerMax	4.5 SL	SL	32 fl oz/a	POST	B						
6	Outlook	6 L	L	10 fl oz/a	POST	B						
6	AMS	WG		3 lb/a	POST	B						
7	Zidua SC	4.17 L	L	3 fl oz/a	PRE	A		0	100	100	100	100
7	Liberty	2.34 L	L	32 fl oz/a	POST	B						
7	Roundup PowerMax	4.5 SL	SL	24 fl oz/a	POST	B						
7	AMS	WG		3 lb/a	POST	B						
8	Zidua SC	4.17 L	L	3 fl oz/a	PRE	A		0	99	100	100	100
8	Liberty	2.34 L	L	32 fl oz/a	POST	B						
8	Roundup PowerMax	4.5 SL	SL	16 fl oz/a	POST	B						
8	AMS	WG		3 lb/a	POST	B						
LSD	P=.05								0.6	0.5		0.8
Standard Deviation								0.0	0.4	0.4	0.0	0.5
CV								0.0	0.47	0.4	0.0	0.61

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Pest Code	ABUTH	SINAR	GLXMA	ANGR	CHEAL
Crop Type, Code					
Rating Date	Jul-15-2019	Jul-15-2019	Jul-22-2019	Jul-22-2019	Jul-22-2019
Rating Type	control	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	21 DA-B	21 DA-B	21 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code					
1	Zidua SC	4.17 L		3 fl oz/a	PRE	A	100	100	0	98	99
1	Liberty	2.34 L		32 fl oz/a	POST	B					
1	AMS	WG		3 lb/a	POST	B					
2	Zidua SC	4.17 L		3 fl oz/a	PRE	A	100	100	0	96	100
2	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B					
2	AMS	WG		3 lb/a	POST	B					
3	Zidua SC	4.17 L		3 fl oz/a	PRE	A	100	100	0	98	100
3	Liberty	2.34 L		32 fl oz/a	POST	B					
3	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B					
3	AMS	WG		3 lb/a	POST	B					
4	Untreated						0	0	0	0	0
5	Zidua SC	4.17 L		3 fl oz/a	PRE	A	100	100	0	99	100
5	Liberty	2.34 L		32 fl oz/a	POST	B					
5	SelectMax	0.97 L		12 fl oz/a	POST	B					
5	AMS	WG		3 lb/a	POST	B					
6	Zidua SC	4.17 L		3 fl oz/a	PRE	A	99	100	0	100	100
6	Liberty	2.34 L		32 fl oz/a	POST	B					
6	Roundup PowerMax	4.5 SL		32 fl oz/a	POST	B					
6	Outlook	6 L		10 fl oz/a	POST	B					
6	AMS	WG		3 lb/a	POST	B					
7	Zidua SC	4.17 L		3 fl oz/a	PRE	A	100	100	0	99	100
7	Liberty	2.34 L		32 fl oz/a	POST	B					
7	Roundup PowerMax	4.5 SL		24 fl oz/a	POST	B					
7	AMS	WG		3 lb/a	POST	B					
8	Zidua SC	4.17 L		3 fl oz/a	PRE	A	100	100	0	98	100
8	Liberty	2.34 L		32 fl oz/a	POST	B					
8	Roundup PowerMax	4.5 SL		16 fl oz/a	POST	B					
8	AMS	WG		3 lb/a	POST	B					
LSD	P=.05			1.1	.	.			2.6		0.9
Standard Deviation				0.8	0.0	0.0			1.8		0.6
CV				0.87	0.0	0.0			2.08		0.68

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Pest Code	AMAPO	AMBEL	ABUTH	SINAR	GLXMA
Crop Type, Code	Jul-22-2019	Jul-22-2019	Jul-22-2019	Jul-22-2019	Jul-29-2019
Rating Date	control	control	control	control	injury
Rating Type	percent	percent	percent	percent	percent
Rating Unit	21 DA-B	21 DA-B	21 DA-B	21 DA-B	28 DA-B
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	98	100	100	0
1	Liberty	2.34 L		32 fl oz/a		POST	B					
1	AMS		WG	3 lb/a		POST	B					
2	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	94	99	100	0
2	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
2	AMS		WG	3 lb/a		POST	B					
3	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	99	99	100	0
3	Liberty	2.34 L		32 fl oz/a		POST	B					
3	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
3	AMS		WG	3 lb/a		POST	B					
4	Untreated							0	0	0	0	0
5	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	99	99	100	0
5	Liberty	2.34 L		32 fl oz/a		POST	B					
5	SelectMax	0.97 L		12 fl oz/a		POST	B					
5	AMS		WG	3 lb/a		POST	B					
6	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	98	99	100	0
6	Liberty	2.34 L		32 fl oz/a		POST	B					
6	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
6	Outlook	6 L		10 fl oz/a		POST	B					
6	AMS		WG	3 lb/a		POST	B					
7	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	99	100	100	0
7	Liberty	2.34 L		32 fl oz/a		POST	B					
7	Roundup PowerMax	4.5 SL		24 fl oz/a		POST	B					
7	AMS		WG	3 lb/a		POST	B					
8	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	100	0
8	Liberty	2.34 L		32 fl oz/a		POST	B					
8	Roundup PowerMax	4.5 SL		16 fl oz/a		POST	B					
8	AMS		WG	3 lb/a		POST	B					
LSD	P=.05								3.2	2.0	0.5	.
Standard Deviation								0.0	2.2	1.4	0.4	0.0
CV								0.0	2.53	1.6	0.4	0.0

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Pest Code	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code					
Rating Date	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019	Jul-29-2019
Rating Type	control	control	control	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	28 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
1	Zidua SC	4.17 L		3 fl oz/a		PRE	A	97	99	100	98	100
1	Liberty	2.34 L		32 fl oz/a		POST	B					
1	AMS		WG	3 lb/a		POST	B					
2	Zidua SC	4.17 L		3 fl oz/a		PRE	A	96	100	100	94	99
2	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
2	AMS		WG	3 lb/a		POST	B					
3	Zidua SC	4.17 L		3 fl oz/a		PRE	A	98	100	100	99	99
3	Liberty	2.34 L		32 fl oz/a		POST	B					
3	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
3	AMS		WG	3 lb/a		POST	B					
4	Untreated							0	0	0	0	0
5	Zidua SC	4.17 L		3 fl oz/a		PRE	A	99	100	100	99	99
5	Liberty	2.34 L		32 fl oz/a		POST	B					
5	SelectMax	0.97 L		12 fl oz/a		POST	B					
5	AMS		WG	3 lb/a		POST	B					
6	Zidua SC	4.17 L		3 fl oz/a		PRE	A	100	100	100	98	99
6	Liberty	2.34 L		32 fl oz/a		POST	B					
6	Roundup PowerMax	4.5 SL		32 fl oz/a		POST	B					
6	Outlook	6 L		10 fl oz/a		POST	B					
6	AMS		WG	3 lb/a		POST	B					
7	Zidua SC	4.17 L		3 fl oz/a		PRE	A	99	100	100	99	100
7	Liberty	2.34 L		32 fl oz/a		POST	B					
7	Roundup PowerMax	4.5 SL		24 fl oz/a		POST	B					
7	AMS		WG	3 lb/a		POST	B					
8	Zidua SC	4.17 L		3 fl oz/a		PRE	A	98	100	100	100	100
8	Liberty	2.34 L		32 fl oz/a		POST	B					
8	Roundup PowerMax	4.5 SL		16 fl oz/a		POST	B					
8	AMS		WG	3 lb/a		POST	B					
LSD	P=.05							2.8	0.9	.	3.2	2.0
Standard Deviation								1.9	0.6	0.0	2.2	1.4
CV								2.2	0.68	0.0	2.53	1.6

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Pest Code	SINAR		
Crop Type, Code	GLXMA	GLXMA	GLXMA
Rating Date	Jul-29-2019	Oct-9-2019	Oct-9-2019
Rating Type	control	moisture	yield
Rating Unit	percent	percent	bu/acre
Trt-Eval Interval	28 DA-B	100 DA-B	at 13% M
Number of Decimals	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code			
1	Zidua SC	4.17	L	3 fl oz/a		PRE	A	100	11.7	38.7
1	Liberty	2.34	L	32 fl oz/a		POST	B			
1	AMS		WG	3 lb/a		POST	B			
2	Zidua SC	4.17	L	3 fl oz/a		PRE	A	100	11.6	38.9
2	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B			
2	AMS		WG	3 lb/a		POST	B			
3	Zidua SC	4.17	L	3 fl oz/a		PRE	A	100	11.7	41.0
3	Liberty	2.34	L	32 fl oz/a		POST	B			
3	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B			
3	AMS		WG	3 lb/a		POST	B			
4	Untreated							0	11.5	10.9
5	Zidua SC	4.17	L	3 fl oz/a		PRE	A	100	11.7	45.3
5	Liberty	2.34	L	32 fl oz/a		POST	B			
5	SelectMax	0.97	L	12 fl oz/a		POST	B			
5	AMS		WG	3 lb/a		POST	B			
6	Zidua SC	4.17	L	3 fl oz/a		PRE	A	100	11.6	39.1
6	Liberty	2.34	L	32 fl oz/a		POST	B			
6	Roundup PowerMax	4.5	SL	32 fl oz/a		POST	B			
6	Outlook	6	L	10 fl oz/a		POST	B			
6	AMS		WG	3 lb/a		POST	B			
7	Zidua SC	4.17	L	3 fl oz/a		PRE	A	100	11.9	41.1
7	Liberty	2.34	L	32 fl oz/a		POST	B			
7	Roundup PowerMax	4.5	SL	24 fl oz/a		POST	B			
7	AMS		WG	3 lb/a		POST	B			
8	Zidua SC	4.17	L	3 fl oz/a		PRE	A	100	11.4	42.0
8	Liberty	2.34	L	32 fl oz/a		POST	B			
8	Roundup PowerMax	4.5	SL	16 fl oz/a		POST	B			
8	AMS		WG	3 lb/a		POST	B			
	LSD P=.05							0.5	0.58	6.31
	Standard Deviation							0.4	0.39	4.29
	CV							0.4	3.38	11.55