

Crop tolerance and weed control with A23372A in no-till soybean

Trial ID: NTS03-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, C-13 Investigator: Christy Sprague

Planting Date: 5-18-21 **Row Spacing:** 30 IN
Variety: AG24XF1 **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 2.9
Soil Type: CL clay loam **pH:** 7.2
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: No-tilled into standing corn stubble
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	STEME	common chickweed	Stellaria media
2	TAROF	dandelion	Taraxacum officinale
3	ERICA	horseweed	Erigeron canadensis
4	CHEAL	common lambsquarters	Chenopodium album
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

A
Application Timing: EPP
Date Treated: 5-10-21
Time Treated: 11:00 AM
% Cloud Cover: 90
Air Temp., Unit: 45 F
% Relative Humidity: 53
Wind Speed/Unit/Dir: 5.5 MPH NW
Soil Temp, Unit: 54 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 5

Crop Stage at Each Application

A
Crop 1 Name: GLXMA
Height:
Stage:

Weed Stage at Each Application

A
Weed 1 Name: STEME
Height: 5-10 " (7.5)
Stage: MAT
Weed 2 Name: TAROF
Height: 6-10 " (8)
Stage: 8L-10L (9L)
Weed 3 Name: ERICA
Height: 1-3 " (2)
Stage: 6L-10L (8L)
Weed 4 Name: CHEAL
Height: 1-2 " (1.5)
Stage: 4L-5L (4.5L)

Weed Density

	1	2	3	4
Date:	5-10-21	5-10-21	5-10-21	5-10-21
Weed Name:	STEME	TAROF	ERICA	CHEAL
Density:	3 FT2	2 FT2	8 FT2	0.5 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	TTI	11003	24.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	25 PSI

Comments:

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Pest Code	STEME	TAROF	ERICA	CHEAL	C, GLXMA	STEME	TAROF	ERICA	CHEAL	C, GLXMA	STEME	
Crop Type, Code	5-24-21	5-24-21	5-24-21	5-24-21	6-7-21	6-7-21	6-7-21	6-7-21	6-7-21	6-7-21	6-21-21	6-21-21
Rating Date	control	control	control	control	injury	control	control	control	control	injury	control	control
Rating Type	%	%	%	%	%	%	%	%	%	%	%	%
Rating Unit	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	42 DA-A	42 DA-A
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	42 DA-A	42 DA-A
Trt No.	Treatment Name	Rate	Appl									
		Rate Unit	Code									
1	Untreated			0	0	0	0	0	0	0	0	0
2	A23372 [A]	4.2 pt/a	A	100	89	100	100	0	100	91	100	100
	2 Gramoxone SL 3.0	2 pt/a	A									
	2 Surfactant	0.25 % v/v	A									
3	A23372 [A]	4.2 pt/a	A	100	85	17	100	0	100	99	17	100
	3 Roundup PowerMax 3	30 fl oz/a	A									
	3 AMSOL	2.5 % v/v	A									
4	A23372 [A]	4.2 pt/a	A	99	83	83	100	0	100	90	90	100
	4 XtendiMax	22 fl oz/a	A									
	4 Roundup PowerMax 3	30 fl oz/a	A									
	4 Volt-Edge	20 fl oz/a	A									
	4 Intact	0.5 % v/v	A									
	4 Class Act Ridion	1 % v/v	A									
5	Boundary	2 pt/a	A	100	98	100	100	0	100	93	99	100
	5 Gramoxone SL 3.0	2 pt/a	A									
	5 Surfactant	0.25 % v/v	A									
6	Boundary	2 pt/a	A	100	85	20	100	0	100	96	56	100
	6 Roundup PowerMax 3	30 fl oz/a	A									
	6 AMSOL	2.5 % v/v	A									
7	Boundary	2 pt/a	A	100	83	84	100	0	100	93	99	100
	7 XtendiMax	22 fl oz/a	A									
	7 Roundup PowerMax 3	30 fl oz/a	A									
	7 Volt-Edge	20 fl oz/a	A									
	7 Intact	0.5 % v/v	A									
	7 Class Act Ridion	1 % v/v	A									
8	Zidua PRO	4.5 fl oz/a	A	95	93	99	98	0	94	83	89	95
	8 Gramoxone SL 3.0	2 pt/a	A									
	8 MSO	1 % v/v	A									
	8 AMSOL	2.5 % v/v	A									
9	Zidua PRO	4.5 fl oz/a	A	100	99	98	100	0	100	100	50	100
	9 Roundup PowerMax 3	30 fl oz/a	A									
	9 MSO	1 % v/v	A									
	9 AMSOL	2.5 % v/v	A									
10	Zidua PRO	4.5 fl oz/a	A	100	99	100	100	0	100	100	99	100
	10 XtendiMax	22 fl oz/a	A									
	10 Roundup PowerMax 3	30 fl oz/a	A									
	10 Volt-Edge	20 fl oz/a	A									
	10 Intact	0.5 % v/v	A									
	10 Class Act Ridion	1 % v/v	A									
11	Fierce MTZ	1 pt/a	A	100	89	96	100	0	100	96	100	100
	11 XtendiMax	22 fl oz/a	A									
	11 Roundup PowerMax 3	30 fl oz/a	A									
	11 Volt-Edge	20 fl oz/a	A									
	11 Intact	0.5 % v/v	A									
	11 Class Act Ridion	1 % v/v	A									
LSD	P=.05			2.7	10.5	8.0	2.2	.	2.2	14.7	15.8	4.4
	Standard Deviation			1.8	7.2	5.6	1.5	0.0	1.5	10.2	10.9	3.0
	CV			2.04	8.85	7.68	1.66	0.0	1.66	11.95	15.01	3.33

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Pest Code	TAROF	ERICA	CHEAL	C, GLXMA	STEME	TAROF	ERICA	CHEAL
Crop Type, Code								
Rating Date	6-21-21	6-21-21	6-21-21	7-12-21	7-12-21	7-12-21	7-12-21	7-12-21
Rating Type	control	control	control	injury	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%
Trt-Eval Interval	42 DA-A	42 DA-A	42 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A	63 DA-A

Trt No.	Treatment Name	Rate	Appl Code	TAROF	ERICA	CHEAL	C, GLXMA	STEME	TAROF	ERICA	CHEAL
No.	Name	Rate Unit	Code								
1	Untreated			0	0	0	0	0	0	0	0
2	A23372 [A]	4.2 pt/a	A	84	100	99	0	100	86	91	98
	2 Gramoxone SL 3.0	2 pt/a	A								
	2 Surfactant	0.25 % v/v	A								
3	A23372 [A]	4.2 pt/a	A	100	23	100	0	100	96	37	99
	3 Roundup PowerMax 3	30 fl oz/a	A								
	3 AMSOL	2.5 % v/v	A								
4	A23372 [A]	4.2 pt/a	A	93	100	100	8	100	84	95	100
	4 XtendiMax	22 fl oz/a	A								
	4 Roundup PowerMax 3	30 fl oz/a	A								
	4 Volt-Edge	20 fl oz/a	A								
	4 Intact	0.5 % v/v	A								
	4 Class Act Ridion	1 % v/v	A								
5	Boundary	2 pt/a	A	96	89	95	0	100	90	89	93
	5 Gramoxone SL 3.0	2 pt/a	A								
	5 Surfactant	0.25 % v/v	A								
6	Boundary	2 pt/a	A	99	25	100	0	100	86	13	98
	6 Roundup PowerMax 3	30 fl oz/a	A								
	6 AMSOL	2.5 % v/v	A								
7	Boundary	2 pt/a	A	97	99	100	0	100	83	92	98
	7 XtendiMax	22 fl oz/a	A								
	7 Roundup PowerMax 3	30 fl oz/a	A								
	7 Volt-Edge	20 fl oz/a	A								
	7 Intact	0.5 % v/v	A								
	7 Class Act Ridion	1 % v/v	A								
8	Zidua PRO	4.5 fl oz/a	A	65	70	88	0	94	64	58	81
	8 Gramoxone SL 3.0	2 pt/a	A								
	8 MSO	1 % v/v	A								
	8 AMSOL	2.5 % v/v	A								
9	Zidua PRO	4.5 fl oz/a	A	88	38	100	0	100	90	39	98
	9 Roundup PowerMax 3	30 fl oz/a	A								
	9 MSO	1 % v/v	A								
	9 AMSOL	2.5 % v/v	A								
10	Zidua PRO	4.5 fl oz/a	A	98	100	100	0	100	85	88	100
	10 XtendiMax	22 fl oz/a	A								
	10 Roundup PowerMax 3	30 fl oz/a	A								
	10 Volt-Edge	20 fl oz/a	A								
	10 Intact	0.5 % v/v	A								
	10 Class Act Ridion	1 % v/v	A								
11	Fierce MTZ	1 pt/a	A	98	100	100	0	100	86	89	100
	11 XtendiMax	22 fl oz/a	A								
	11 Roundup PowerMax 3	30 fl oz/a	A								
	11 Volt-Edge	20 fl oz/a	A								
	11 Intact	0.5 % v/v	A								
	11 Class Act Ridion	1 % v/v	A								
LSD P=.05				14.1	17.3	8.2	1.3	3.3	14.8	17.6	8.5
Standard Deviation				9.8	11.9	5.7	0.9	2.3	10.3	12.2	5.9
CV				11.74	17.66	6.36	127.66	2.5	13.28	19.42	6.74