

Waterhemp control with A23372A in Enlist E3 soybean

Trial ID: SOY14-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: Shiawassee County Investigator: Christy Sprague

Planting Date: 5-20-21 **Row Spacing:** 30 IN
Variety: P24T35E **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 3.6
Soil Type: CL clay loam **pH:** 6.2
Plot Size: 10 X 25 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Spring disked corn stubble
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	AMATU	waterhemp	Amaranthus tuberculatus
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

	A	B
Application Timing:	PRE	POST
Date Treated:	5-20-21	7-7-21
Time Treated:	2:45 PM	9:45 AM
% Cloud Cover:	50	95
Air Temp., Unit:	86 F	76 F
% Relative Humidity:	35	79
Wind Speed/Unit/Dir:	7 MPH S	2 MPH SW
Soil Temp, Unit:	67 F	79 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:		17-18 " (17)
Stage:		V6

Weed Stage at Each Application

	A	B
Weed 1 Name:	AMATU	AMATU
Height:		3-9 " (6)
Stage:		12L-20L (16L)

Weed Density

Date:	1 7-7-21
Weed Name:	AMATU
Density:	15 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	3.3 MPH	AIXR	11003	22.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI
B	CUB	3.3 MPH	AIXR	11003	28.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	30 PSI

Comments: Waterhemp at this location is Group 2 & 9 (ALS & glyphosate) resistant.

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 Trial ID: SOY14-21 Location: Shiawassee County
 Protocol ID: SOY14-21 Investigator (Creator): Christy Sprague
 Study Director: Sprague, Stiles, Powell

Trial Year: 2021

Pest Code	AMATU	AMATU	C, GLXMA	AMATU	C, GLXMA	AMATU	AMATU
Crop Type, Code	6-16-21	7-7-21	7-21-21	7-21-21	8-11-21	8-11-21	9-30-21
Rating Date	control	control	injury	control	injury	control	control
Rating Type	%	%	%	%	%	%	%
Rating Unit	27 DA-A	48 DA-A	14 DA-B	14 DA-B	35 DA-B	35 DA-B	85 DA-B
Trt-Eval Interval							
Trt No.	Treatment Name	Rate	Appl Code				
		Rate Unit					
1	Untreated			0	0	0	0
2	A23372 [A]	2.4 pt/a	A	100	99	0	100
	2 Sequence	3.5 pt/a	B				
	2 Enlist One	32 fl oz/a	B				
	2 Class Act Ridion	1 % v/v	B				
3	A23372 [A]	3 pt/a	A	100	100	0	100
	3 Sequence	3.5 pt/a	B				
	3 Enlist One	32 fl oz/a	B				
	3 Class Act Ridion	1 % v/v	B				
4	Boundary	1.5 pt/a	A	100	100	0	100
	4 Sequence	3.5 pt/a	B				
	4 Enlist One	32 fl oz/a	B				
	4 Class Act Ridion	1 % v/v	B				
5	BroadAxe XC	19 fl oz/a	A	99	95	0	100
	5 Sequence	3.5 pt/a	B				
	5 Enlist One	32 fl oz/a	B				
	5 Class Act Ridion	1 % v/v	B				
6	Sonic	4.5 oz/a	A	100	98	0	100
	6 Sequence	3.5 pt/a	B				
	6 Enlist One	32 fl oz/a	B				
	6 Class Act Ridion	1 % v/v	B				
7	Fierce MTZ	1 pt/a	A	100	100	0	100
	7 Sequence	3.5 pt/a	B				
	7 Enlist One	32 fl oz/a	B				
	7 Class Act Ridion	1 % v/v	B				
8	Zidua PRO	4.5 fl oz/a	A	100	98	0	100
	8 Sequence	3.5 pt/a	B				
	8 Enlist One	32 fl oz/a	B				
	8 Class Act Ridion	1 % v/v	B				
9	Authority Edge	6 fl oz/a	A	98	94	0	100
	9 Sequence	3.5 pt/a	B				
	9 Enlist One	32 fl oz/a	B				
	9 Class Act Ridion	1 % v/v	B				
10	Sequence	3.5 pt/a	B	0	0	0	90
	10 Enlist One	32 fl oz/a	B				
	10 Class Act Ridion	1 % v/v	B				
11	Fierce MTZ	1 pt/a	A	100	99	0	100
	11 Enlist One	32 fl oz/a	B				
	11 Liberty	32 fl oz/a	B				
	11 AMSOL	2.5 % v/v	B				
12	Roundup PowerMax 3	30 fl oz/a	B	0	0	0	0
	12 AMSOL	2.5 % v/v	B				
LSD P=.05				2.3	6.1	.	1.7
Standard Deviation				1.6	4.3	0.0	1.2
CV				2.13	5.79	0.0	1.43