

XtendiMax tank-mixtures with soil-applied (PRE) herbicides for weed control in XtendFlex soybean

Trial ID: SOY05-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, C-14 Investigator: Christy Sprague

Planting Date: 5-10-21 **Row Spacing:** 30 IN
Variety: AG24XF1 **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 2.4
Soil Type: CL clay loam **pH:** 7.5
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Full chisel plow; Spring soil finished twice
Fertilizer:

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	mainly foxtail species
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia
5	ABUTH	velvetleaf	Abutilon theophrasti
Crop	Code	Common Name	
1	GLXMA	Soybean	

Application Description

Application Timing: A
Date Treated: PRE
Time Treated: 5:50 PM
% Cloud Cover: 50
Air Temp., Unit: 54 F
% Relative Humidity: 39
Wind Speed/Unit/Dir: 5 MPH NW
Soil Temp, Unit: 51 F
Leaf Moist/Dew Presence (Y/N): N
Soil Moist: 4

Crop Stage at Each Application

Crop 1 Name: A
 GLXMA
Height:
Stage:

Weed Stage at Each Application

Weed 1 Name: A
 ANGR
Height:
Stage:
Weed 2 Name: CHEAL
Height:
Stage:
Weed 3 Name: AMAPO
Height:
Stage:
Weed 4 Name: AMBEL
Height:
Stage:
Weed 5 Name: ABUTH
Height:
Stage:

Weed Density

Date:	1	2	3	4	5
Weed Name:	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Density:	5 FT2	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	22.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	25 PSI

Comments: Common ragweed at this location is Group 2 (ALS) resistant.

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Investigator (Creator): Christy Sprague
Study Director: Sprague, Stiles, Powell

Pest Code			ANGR	CHEAL	AMBEL		ANGR	CHEAL	AMAPO	AMBEL	ABUTH			
Crop Type, Code	C, GLXMA	C, GLXMA				C, GLXMA								
Rating Date	5-31-21	6-7-21	6-7-21	6-7-21	6-7-21	6-14-21	6-14-21	6-14-21	6-14-21	6-14-21	6-14-21			
Rating Type	injury	injury	control	control	control	injury	control	control	control	control	control			
Rating Unit	%	%	%	%	%	%	%	%	%	%	%			
Trt-Eval Interval	21 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A	35 DA-A			
Trt No.	Treatment Name	Rate	Appl											
		Rate Unit	Code											
1	Untreated			0	0	0	0	0	0	0	0			
2	MON 301668 2 Mauler	30 fl oz/a A 8 fl oz/a A		0	3	88	75	66	4	90	79	98	63	33
3	MON 301668	30 fl oz/a A		0	6	76	48	60	2	82	66	100	54	20
4	Warrant Ultra	50 fl oz/a A		0	1	73	59	61	1	81	60	96	67	33
5	Fierce EZ	6 fl oz/a A		0	8	81	68	43	1	79	69	100	51	75
6	Valor EZ	2 fl oz/a A		0	11	83	55	61	4	81	62	100	63	59
7	Authority MTZ	10 oz/a A		0	0	67	73	38	0	55	81	100	38	67
8	MON 301668 8 Mauler 8 XtendiMax 8 VaporGrip	30 fl oz/a A 8 fl oz/a A 22 fl oz/a A 20 fl oz/a A		0	3	88	96	100	2	87	93	100	100	98
9	MON 301668 9 XtendiMax 9 VaporGrip	30 fl oz/a A 22 fl oz/a A 20 fl oz/a A		0	4	78	91	98	2	85	91	100	100	90
10	Warrant Ultra 10 XtendiMax 10 VaporGrip 10 Intact	50 fl oz/a A 22 fl oz/a A 20 fl oz/a A 0.5 % v/v A		0	2	78	95	100	2	80	91	100	100	95
11	Fierce EZ 11 XtendiMax 11 VaporGrip	6 fl oz/a A 22 fl oz/a A 20 fl oz/a A		0	10	85	97	99	3	89	96	100	99	99
12	Valor EZ 12 XtendiMax 12 VaporGrip	2 fl oz/a A 22 fl oz/a A 20 fl oz/a A		0	6	87	93	100	6	87	89	100	100	96
13	Authority MTZ 13 XtendiMax 13 VaporGrip	10 oz/a A 22 fl oz/a A 20 fl oz/a A		0	0	80	91	100	0	81	87	98	100	87
LSD	P=.05				3.7	13.0	13.9	8.6	2.5	10.3	14.0	4.0	11.1	16.1
Standard Deviation				0.0	2.6	9.1	9.7	6.0	1.8	7.2	9.8	2.8	7.7	11.2
CV				0.0	62.04	12.27	13.4	8.41	96.08	9.54	13.21	3.08	10.75	17.18

