

Evaluation of a high load Warrant formulation PRE in XtendFlex soybean

Trial ID: SOY01-21 Study Dir.: Sprague, Stiles, Powell
 Conducted: Campus, C-12 Investigator: Christy Sprague

Planting Date: 5-10-21 **Row Spacing:** 30 IN
Variety: AG24XF1 **No. of Reps:** 4
Population: 155000 seeds/A **% OM:** 2.9
Soil Type: SCL sandy clay loam **pH:** 7.5
Plot Size: 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall chisel plow; Spring soil finish 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: 5-10-21 4:50 PM
% Cloud Cover: 45
Air Temp., Unit: 54 F
% Relative Humidity: 39
Wind Speed/Unit/Dir: 8 MPH NW
Soil Temp, Unit: 61 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	7 FT2	0.5 FT2	3 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: The common ragweed population at this location is Group 2 (ALS) resistant.

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Pest Code	C, GLXMA		ANGR	CHEAL	AMAPO	AMBEL	ABUTH	C, GLXMA		ANGR	CHEAL	AMBEL
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	6-7-21	6-7-21	6-14-21	6-14-21	6-14-21	6-14-21	6-14-21
Rating Type	injury	injury	control	control	control	control	control	injury	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%	%	%	%	%
Trt-Eval Interval	21 DA-A	28 DA-A	28 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

Trt No.	Treatment Name	Rate	Appl Unit	Code											
16	Dual II Magnum	1 pt/a	A		0	0	86	93	100	98	100	0	86	91	99
16	Mauler	8 fl oz/a	A												
16	XtendiMax	22 fl oz/a	A												
16	VaporGrip	20 fl oz/a	A												
16	Intact	0.5 % v/v	A												
LSD P=.05					.	1.8	10.1	10.2	1.8	14.5	8.8	1.2	7.6	10.4	8.8
Standard Deviation					0.0	1.3	7.1	7.2	1.3	10.2	6.2	0.8	5.4	7.3	6.2
CV					0.0	64.79	9.8	11.53	1.35	15.04	6.82	107.98	6.86	11.4	7.99

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Pest Code	ABUTH	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
Crop Type, Code	C, GLXMA					
Rating Date	6-14-21	6-21-21	6-21-21	6-21-21	6-21-21	6-21-21
Rating Type	control	injury	control	control	control	control
Rating Unit	%	%	%	%	%	%
Trt-Eval Interval	35 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A

Trt No.	Treatment Name	Rate	Appl Code						
		Rate Unit							
1	Untreated			0	0	0	0	0	0
2	Warrant	48 fl oz/a	A	99	0	84	88	100	99
	2 XtendiMax	22 fl oz/a	A						
	2 VaporGrip	20 fl oz/a	A						
3	MON 301668	30 fl oz/a	A	98	0	79	85	100	100
	3 XtendiMax	22 fl oz/a	A						
	3 VaporGrip	20 fl oz/a	A						
4	Zidua SC	3.26 fl oz/a	A	97	0	79	90	100	96
	4 XtendiMax	22 fl oz/a	A						
	4 VaoprGrip	20 fl oz/a	A						
5	Outlook	14 fl oz/a	A	95	0	72	81	100	100
	5 XtendiMax	22 fl oz/a	A						
	5 VaporGrip	20 fl oz/a	A						
	5 Intact	0.5 % v/v	A						
6	Dual II Magnum	1 pt/a	A	100	0	77	33	95	61
7	Warrant	48 fl oz/a	A	100	0	78	56	100	64
	7 Mauler	8 fl oz/a	A						
8	MON 301668	30 fl oz/a	A	96	0	82	60	94	65
	8 Mauler	8 fl oz/a	A						
9	Zidua SC	3.26 fl oz/a	A	96	0	78	58	100	67
	9 Mauler	8 fl oz/a	A						
10	Outlook	14 fl oz/a	A	94	0	78	51	90	68
	10 Mauler	8 fl oz/a	A						
11	Dual II Magnum	1 pt/a	A	91	0	81	56	98	65
	11 Mauler	8 fl oz/a	A						
12	Warrant	48 fl oz/a	A	100	0	75	92	100	96
	12 Mauler	8 fl oz/a	A						
	12 XtendiMax	22 fl oz/a	A						
	12 VaporGrip	20 fl oz/a	A						
13	MON 301668	30 fl oz/a	A	95	0	75	93	100	100
	13 Mauler	8 fl oz/a	A						
	13 XtendiMax	22 fl oz/a	A						
	13 VaporGrip	20 fl oz/a	A						
14	Zidua SC	3.26 fl oz/a	A	100	0	79	89	100	100
	14 Mauler	8 fl oz/a	A						
	14 XtendiMax	22 fl oz/a	A						
	14 VaporGrip	20 fl oz/a	A						
15	Outlook	14 fl oz/a	A	100	0	80	81	100	100
	15 Mauler	8 fl oz/a	A						
	15 XtendiMax	22 fl oz/a	A						
	15 VaporGrip	20 fl oz/a	A						
	15 Intact	0.5 % v/v	A						

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Rating Type	control	injury	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%
Trt-Eval Interval	35 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A

Trt No.	Treatment Name	Rate	Appl Unit	Code							
16	Dual II Magnum	1 pt/a	A		100	0	82	90	100	98	100
16	Mauler	8 fl oz/a	A								
16	XtendiMax	22 fl oz/a	A								
16	VaporGrip	20 fl oz/a	A								
16	Intact	0.5 % v/v	A								
LSD P=.05					7.4	.	8.3	12.0	9.2	5.4	11.8
Standard Deviation					5.2	0.0	5.8	8.4	6.4	3.8	8.3
CV					5.71	0.0	7.87	12.21	6.97	4.72	9.44