

**Weed control with tank-mixtures used in XtendFlex soybean**

Trial ID: NC03-20 Study Dir.: Constine, Sprague  
 Conducted: Campus, H6-8 Investigator: Christy Sprague

**Planting Date:** **Row Spacing:**  
**Variety:** **No. of Reps:** 4  
**Population:** **% OM:** 2.8  
**Soil Type:** L loam **pH:** 6.7  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Fall chisel plow, fall soil finished; spring soil finished (2X)  
**Fertilizer:**

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	mainly foxtail species	Annual grass
2	CHEAL	common lambsquarters	Chenopodium album
3	AMAPO	Powell amaranth	Amaranthus powellii
4	AMBEL	common ragweed	Ambrosia artemisiifolia

Crop	Code	Common Name
1		

**Application Description**

**A**  
**Application Timing:** POST  
**Date Treated:** Jun-22-2020  
**Time Treated:** 9:35 AM  
**% Cloud Cover:** 1  
**Air Temp., Unit:** 70 F  
**% Relative Humidity:** 79  
**Wind Speed/Unit/Dir:** 7 MPH SW  
**Soil Temp, Unit:** 77 F  
**Leaf Moist/Dew Presence (Y/N):** 4  
**Soil Moist:** 5

**Crop Stage at Each Application**

**A**  
**Crop 1 Name:**  
**Height:**  
**Stage:**

**Weed Stage at Each Application**

**A**  
**Weed 1 Name:** ANGR  
**Height:** 3-10 " (6.5)  
**Stage:** 2-4L  
**Weed 2 Name:** CHEAL  
**Height:** 2-4 " (3)  
**Stage:** 4-6L  
**Weed 3 Name:** AMAPO  
**Height:** 2-3 " (2.5)  
**Stage:** 4-5L  
**Weed 4 Name:** AMBEL  
**Height:** 2-3 " (2.5)  
**Stage:** 3-5L

**Weed Density**

	1	2	3	4
<b>Date:</b>	Jun-22-2020	Jun-22-2020	Jun-22-2020	Jun-22-2020
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL
<b>Density:</b>	131 FT2	1 FT2	6 FT2	1 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	27 "	20 "	100 "	19 GPA	WATER	27 psi

**Comments:**

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 Sponsor Contact:

Pest Code				ANGR	CHEAL	AMAPO	AMBEL	ANGR	CHEAL	AMAPO
Rating Date				Jun-29-2020	Jun-29-2020	Jun-29-2020	Jun-29-2020	Jul-7-2020	Jul-7-2020	Jul-7-2020
Rating Type				control	control	control	control	control	control	control
Rating Unit				percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval				7 DA-A	7 DA-A	7 DA-A	7 DA-A	15 DA-A	15 DA-A	15 DA-A
Number of Decimals				0	0	0	0	0	0	0
Trt No.	Treatment Name	Rate	Appl							
		Rate Unit	Appl Timing Code							
1	Roundup PowerMax AMS	32 fl oz/a 8.5 lb/100 gal	POST A	92	99	100	98	100	100	100
2	Liberty AMS	32 fl oz/a 8.5 lb/100 gal	POST A	59	81	100	100	39	85	91
3	Liberty Roundup PowerMax AMS	32 fl oz/a 32 fl oz/a 8.5 lb/100 gal	POST A	90	98	100	100	95	94	98
4	XtendiMax Intact	22 fl oz/a 0.5 % v/v	POST A	0	65	59	59	0	79	64
5	Untreated			0	0	0	0	0	0	0
6	XtendiMax Roundup PowerMax Intact	22 fl oz/a 32 fl oz/a 0.5 % v/v	POST A	78	99	96	96	95	100	99
7	Liberty XtendiMax MON 301471	32 fl oz/a 22 fl oz/a 1.5 % v/v	POST A	44	85	93	93	21	94	100
8	Liberty XtendiMax Roundup PowerMax MON 301471	32 fl oz/a 22 fl oz/a 32 fl oz/a 1.5 % v/v	POST A	79	98	93	95	84	99	91
LSD P=.05				9.0	6.2	7.0	6.6	8.2	6.9	6.6
Standard Deviation				6.1	4.2	4.8	4.5	5.6	4.7	4.5
CV				11.14	5.45	5.94	5.62	10.34	5.78	5.58

Michigan State University

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 Sponsor Contact:

Pest Code	AMBEL	ANGR	CHEAL	AMAPO	AMBEL	ANGR	CHEAL				
Rating Date	Jul-7-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Jul-13-2020	Aug-5-2020	Aug-5-2020				
Rating Type	control	control	control	control	control	control	control				
Rating Unit	percent	percent	percent	percent	percent	percent	percent				
Trt-Eval Interval	15 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	44 DA-A	44 DA-A				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Appl	Appl							
		Rate Unit	Timing	Code							
1	Roundup PowerMax AMS	32 fl oz/a 8.5 lb/100 gal	POST	A	99	79	95	88	99	49	76
2	Liberty AMS	32 fl oz/a 8.5 lb/100 gal	POST	A	100	28	70	84	96	13	76
3	Liberty Roundup PowerMax AMS	32 fl oz/a 32 fl oz/a 8.5 lb/100 gal	POST	A	99	74	91	93	98	35	76
4	XtendiMax Intact	22 fl oz/a 0.5 % v/v	POST	A	83	0	100	99	100	0	100
5	Untreated				0	0	0	0	0	0	0
6	XtendiMax Roundup PowerMax Intact	22 fl oz/a 32 fl oz/a 0.5 % v/v	POST	A	100	68	100	99	100	30	98
7	Liberty XtendiMax MON 301471	32 fl oz/a 22 fl oz/a 1.5 % v/v	POST	A	100	18	98	100	100	4	100
8	Liberty XtendiMax Roundup PowerMax MON 301471	32 fl oz/a 22 fl oz/a 32 fl oz/a 1.5 % v/v	POST	A	96	55	100	100	98	19	100
LSD P=.05					3.8	18.5	5.4	9.5	4.1	12.8	8.5
Standard Deviation					2.6	12.6	3.7	6.5	2.8	8.7	5.8
CV					3.07	31.37	4.51	7.85	3.23	47.01	7.38

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Trial Year: 2020

Protocol ID: NC03-20

Investigator (Creator): Christy Sprague

Project ID:

Study Director: Constine, Sprague

Sponsor Contact:

Pest Code		AMAPO	AMBEL		
Rating Date		Aug-5-2020	Aug-5-2020		
Rating Type		control	control		
Rating Unit		percent	percent		
Trt-Eval Interval		44 DA-A	44 DA-A		
Number of Decimals		0	0		
Trt No.	Treatment Name	Rate	Rate Unit	Appl Timing	Appl Code
1	Roundup PowerMax AMS	32 fl oz/a		POST A	80
		8.5 lb/100 gal		POST A	85
2	Liberty AMS	32 fl oz/a		POST A	90
		8.5 lb/100 gal		POST A	94
3	Liberty Roundup PowerMax AMS	32 fl oz/a		POST A	78
		32 fl oz/a		POST A	66
		8.5 lb/100 gal		POST A	
4	XtendiMax Intact	22 fl oz/a		POST A	100
		0.5 % v/v		POST A	100
5	Untreated				0
6	XtendiMax Roundup PowerMax Intact	22 fl oz/a		POST A	96
		32 fl oz/a		POST A	100
		0.5 % v/v		POST A	
7	Liberty XtendiMax MON 301471	32 fl oz/a		POST A	100
		22 fl oz/a		POST A	100
		1.5 % v/v		POST A	
8	Liberty XtendiMax Roundup PowerMax MON 301471	32 fl oz/a		POST A	98
		22 fl oz/a		POST A	90
		32 fl oz/a		POST A	
		1.5 % v/v		POST A	
	LSD P=.05				7.8
	Standard Deviation				5.3
	CV				6.4
					6.62
					8.06