

**Weed control with XtendiMax tank-mixtures with Liberty and Roundup PowerMax 3**

Trial ID: NC02-21 Study Dir.: Sprague, Stiles, Powell  
 Conducted: Campus, H6-8 Investigator: Christy Sprague

**Planting Date:** \_\_\_\_\_ **Row Spacing:** \_\_\_\_\_  
**Variety:** \_\_\_\_\_ **No. of Reps:** 4  
**Population:** \_\_\_\_\_ **% OM:** 2.4  
**Soil Type:** CL clay loam **pH:** 7.3  
**Plot Size:** 10 X 35 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Spring soil finish twice  
**Fertilizer:** \_\_\_\_\_

**Crop and Weed Description**

Weed	Code	Common Name	Scientific Name
1	ANGR	annual grass	mainly foxtail, barnyardgrass, l.crabgrass
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			

**Application Description**

**Application Timing:** POST  
**Date Treated:** 6-1-21  
**Time Treated:** 10:20 AM  
**% Cloud Cover:** 15  
**Air Temp., Unit:** 67 F  
**% Relative Humidity:** 48  
**Wind Speed/Unit/Dir:** 3 MPH SW  
**Soil Temp, Unit:** 65 F  
**Leaf Moist/Dew Presence (Y/N):** N  
**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:** 3-5 " (4)  
**Stage:** 4L  
**Weed 2 Name:** CHEAL  
**Height:** 4-6 " (5)  
**Stage:** 8L-12L (10L)  
**Weed 3 Name:** AMAPO  
**Height:** 1-4 " (3)  
**Stage:** 8L-10L (9L)  
**Weed 4 Name:** AMBEL  
**Height:** 2 "  
**Stage:** 4L-6L (6L)  
**Weed 5 Name:** ABUTH  
**Height:** 2-4 " (3)  
**Stage:** 4L

**Weed Density**

	1	2	3	4	5
<b>Date:</b>	6-1-21	6-1-21	6-1-21	6-1-21	6-1-21
<b>Weed Name:</b>	ANGR	CHEAL	AMAPO	AMBEL	ABUTH
<b>Density:</b>	7 FT2	8 FT2	1 FT2	2 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	AIXR/TTI	11003	24.0 "	20.0 "	100.0 "	19 GAL/AC	WATER	

**Comments:** AIXR nozzles were applied at 30 PSI and TTI nozzles were applied at 25 PSI.

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Investigator (Creator): Christy Sprague

Study Director: Sprague, Stiles, Powell

Crop Type, Code	C, ANGR C, CHEAL C, AMAPO C, AMBEL C, ABUTH C, ANGR C, CHEAL C, AMAPO C, AMBEL									
Rating Date	6-15-21	6-15-21	6-15-21	6-15-21	6-15-21	6-15-21	6-22-21	6-22-21	6-22-21	6-22-21
Rating Type	control	control	control	control	control	control	control	control	control	control
Rating Unit	%	%	%	%	%	%	%	%	%	%
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A
Trt No.	Treatment Name	Rate	Appl							
		Rate Unit	Code							
1	Untreated			0	0	0	0	0	0	0
2	TTI nozzle		B	20	85	86	100	90	13	90
	2 XtendiMax	22 fl oz/a	B							
	2 MON 51817	20 fl oz/a	B							
	2 Intact	0.5 % v/v	B							
	2 Class Act Ridion	0.5 % v/v	B							
3	AIXR nozzle		A	87	80	83	100	94	80	82
	3 Liberty	32 fl oz/a	A							
	3 AMSOL	2.5 % v/v	A							
4	TTI nozzle		B	89	98	95	100	96	85	95
	4 Roundup PowerMax 3	30 fl oz/a	B							
	4 XtendiMax	22 fl oz/a	B							
	4 MON 51817	20 fl oz/a	B							
	4 Intact	0.5 % v/v	B							
	4 Class Act Ridion	0.5 % v/v	B							
5	TTI nozzle		B	83	94	90	100	93	74	96
	5 Liberty	32 fl oz/a	B							
	5 XtendiMax	22 fl oz/a	B							
	5 MON 51817	20 fl oz/a	B							
	5 Intact	0.5 % v/v	B							
	5 Class Act Ridion	0.5 % v/v	B							
6	TTI nozzle		B	82	96	97	99	93	77	91
	6 Liberty	32 fl oz/a	B							
	6 Roundup PowerMax 3	30 fl oz/a	B							
	6 XtendiMax	22 fl oz/a	B							
	6 MON 51817	20 fl oz/a	B							
	6 Intact	0.5 % v/v	B							
	6 Class Act Ridion	0.5 % v/v	B							
7	TTI nozzle		B	85	91	99	100	73	85	97
	7 MON 301668	30 fl oz/a	B							
	7 Liberty	32 fl oz/a	B							
	7 XtendiMax	22 fl oz/a	B							
	7 MON 51817	20 fl oz/a	B							
	7 Intact	0.5 % v/v	B							
	7 Class Act Ridion	0.5 % v/v	B							
8	AIXR nozzle		A	99	85	98	99	92	96	81
	8 MON 301668	30 fl oz/a	A							
	8 Liberty	32 fl oz/a	A							
	8 AMSOL	2.5 % v/v	A							
9	AIXR nozzle		A	99	90	93	98	96	98	86
	9 MON 301668	30 fl oz/a	A							
	9 Liberty	32 fl oz/a	A							
	9 Roundup PowerMax 3	30 fl oz/a	A							
	9 AMSOL	2.5 % v/v	A							
10	AIXR nozzle		A	98	87	99	100	93	96	83
	10 Warrant Ultra	50 fl oz/a	A							
	10 Liberty	32 fl oz/a	A							
	10 AMSOL	2.5 % v/v	A							

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Crop Type, Code	C, ANGR C, CHEAL C, AMAPO C, AMBEL C, ABUTH C, ANGR C, CHEAL C, AMAPO C, AMBEL	6-15-21	6-15-21	6-15-21	6-15-21	6-15-21	6-22-21	6-22-21	6-22-21	6-22-21		
Rating Date	control	control	control	control	control	control	control	control	control	control		
Rating Type	%	%	%	%	%	%	%	%	%	%		
Rating Unit	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A	21 DA-A		
Trt-Eval Interval												
Trt No.	Treatment Name	Rate Unit	Appl Code									
11	TTI nozzle		B	97	96	99	100	96	96	96	98	100
11	MON 301668	30 fl oz/a	B									
11	Liberty	32 fl oz/a	B									
11	Roundup PowerMax 3	30 fl oz/a	B									
11	XtendiMax	22 fl oz/a	B									
11	MON 51817	20 fl oz/a	B									
11	Intact	0.5 % v/v	B									
11	Class Act Ridion	0.5 % v/v	B									
12	AIXR nozzle		A	89	95	91	99	90	83	88	85	91
12	Durango DMA	36 fl oz/a	A									
12	Enlist One	32 fl oz/a	A									
12	AMSOL	2.5 % v/v	A									
13	AIXR nozzle		A	88	95	86	100	95	80	89	71	97
13	Liberty	32 fl oz/a	A									
13	Enlist One	32 fl oz/a	A									
13	AMSOL	2.5 % v/v	A									
14	AIXR nozzle		A	95	92	95	99	98	87	86	89	97
14	Liberty	32 fl oz/a	A									
14	Durango DMA	36 fl oz/a	A									
14	Enlist One	32 fl oz/a	A									
14	AMSOL	2.5 % v/v	A									
15	AIXR nozzle		A	100	95	99	99	100	99	91	95	93
15	Outlook	14 fl oz/a	A									
15	Liberty	32 fl oz/a	A									
15	Durango DMA	36 fl oz/a	A									
15	Enlist One	32 fl oz/a	A									
15	AMSOL	2.5 % v/v	A									
LSD	P=.05			8.0	8.4	7.1	1.7	11.6	9.4	8.3	10.6	7.4
	Standard Deviation			5.6	5.9	5.0	1.2	8.1	6.6	5.8	7.4	5.2
	CV			6.97	6.92	5.7	1.32	9.39	8.6	6.96	9.06	5.71

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Crop Type, Code		C, ABUTH C, ANGR C, CHEAL C, AMAPO C, AMBEL C, ABUTH	6-22-21	6-29-21	6-29-21	6-29-21	6-29-21	6-29-21
Rating Date		control	control	control	control	control	control	control
Rating Type		%	%	%	%	%	%	%
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
Trt No.	Treatment Name	Rate	Appl					
		Rate Unit	Code					
1	Untreated			0	0	0	0	0
2	TTI nozzle		B	86	20	98	96	100
	2 XtendiMax	22 fl oz/a	B					
	2 MON 51817	20 fl oz/a	B					
	2 Intact	0.5 % v/v	B					
	2 Class Act Ridion	0.5 % v/v	B					
3	AIXR nozzle		A	90	74	64	63	91
	3 Liberty	32 fl oz/a	A					
	3 AMSOL	2.5 % v/v	A					
4	TTI nozzle		B	95	77	93	88	100
	4 Roundup PowerMax 3	30 fl oz/a	B					
	4 XtendiMax	22 fl oz/a	B					
	4 MON 51817	20 fl oz/a	B					
	4 Intact	0.5 % v/v	B					
	4 Class Act Ridion	0.5 % v/v	B					
5	TTI nozzle		B	95	73	94	82	100
	5 Liberty	32 fl oz/a	B					
	5 XtendiMax	22 fl oz/a	B					
	5 MON 51817	20 fl oz/a	B					
	5 Intact	0.5 % v/v	B					
	5 Class Act Ridion	0.5 % v/v	B					
6	TTI nozzle		B	91	68	96	95	100
	6 Liberty	32 fl oz/a	B					
	6 Roundup PowerMax 3	30 fl oz/a	B					
	6 XtendiMax	22 fl oz/a	B					
	6 MON 51817	20 fl oz/a	B					
	6 Intact	0.5 % v/v	B					
	6 Class Act Ridion	0.5 % v/v	B					
7	TTI nozzle		B	72	79	96	98	100
	7 MON 301668	30 fl oz/a	B					
	7 Liberty	32 fl oz/a	B					
	7 XtendiMax	22 fl oz/a	B					
	7 MON 51817	20 fl oz/a	B					
	7 Intact	0.5 % v/v	B					
	7 Class Act Ridion	0.5 % v/v	B					
8	AIXR nozzle		A	78	91	75	89	94
	8 MON 301668	30 fl oz/a	A					
	8 Liberty	32 fl oz/a	A					
	8 AMSOL	2.5 % v/v	A					
9	AIXR nozzle		A	90	94	82	88	88
	9 MON 301668	30 fl oz/a	A					
	9 Liberty	32 fl oz/a	A					
	9 Roundup PowerMax 3	30 fl oz/a	A					
	9 AMSOL	2.5 % v/v	A					
10	AIXR nozzle		A	88	95	80	92	100
	10 Warrant Ultra	50 fl oz/a	A					
	10 Liberty	32 fl oz/a	A					
	10 AMSOL	2.5 % v/v	A					

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Rating Date	control	control	control	control	control	control	control	
Rating Type	%	%	%	%	%	%	%	
Rating Unit	21 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	
Trt-Eval Interval								
Trt Treatment No. Name	Rate Unit	Appl Code						
11 TTI nozzle		B	98	90	99	99	100	98
11 MON 301668	30 fl oz/a	B						
11 Liberty	32 fl oz/a	B						
11 Roundup PowerMax 3	30 fl oz/a	B						
11 XtendiMax	22 fl oz/a	B						
11 MON 51817	20 fl oz/a	B						
11 Intact	0.5 % v/v	B						
11 Class Act Ridion	0.5 % v/v	B						
12 AIXR nozzle		A	88	73	83	81	94	86
12 Durango DMA	36 fl oz/a	A						
12 Enlist One	32 fl oz/a	A						
12 AMSOL	2.5 % v/v	A						
13 AIXR nozzle		A	81	77	88	72	98	83
13 Liberty	32 fl oz/a	A						
13 Enlist One	32 fl oz/a	A						
13 AMSOL	2.5 % v/v	A						
14 AIXR nozzle		A	91	73	83	80	98	90
14 Liberty	32 fl oz/a	A						
14 Durango DMA	36 fl oz/a	A						
14 Enlist One	32 fl oz/a	A						
14 AMSOL	2.5 % v/v	A						
15 AIXR nozzle		A	99	96	91	94	96	98
15 Outlook	14 fl oz/a	A						
15 Liberty	32 fl oz/a	A						
15 Durango DMA	36 fl oz/a	A						
15 Enlist One	32 fl oz/a	A						
15 AMSOL	2.5 % v/v	A						
LSD P=.05			14.6	11.5	8.8	9.6	8.7	14.1
Standard Deviation			10.2	8.1	6.1	6.7	6.1	9.9
CV			12.36	11.23	7.56	8.3	6.72	12.06