

The Ohio State University

Residual Weed Control with Alite 27

Trial ID: 20ALITE27 Location: Trial Year: 2020
 Protocol ID: 20ALITE27 Investigator: Dr. Mark M. Loux
 Project ID: MKD H 2020 US D62 Study Director: Anthony Dobbels
 Sponsor Contact: Alic Harris, BASF

General Trial Information

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux

Trial Status: E established

ARM Trial Created On: Mar-27-2020
Initiation Date: May-7-2020

Trial Location

Address (Location): 7721 South Charleston Pike
City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368

Latitude of LL Corner °: 39.85875 N
Longitude of LL Corner °: -83.67281 W
Altitude of LL Corner: 1095.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: C GLXMA Glycine max Soybean **BBCH Scale:** BSOY
Entry Date: May-8-2020 **Stage Scale:** BBCH
Variety: Crednez CZ 3250GTLL
Attributes: HPPD, Glyphosate, Glufosinate Tolerance
Planting Date: May-7-2020 **Planting Rate:** 155000 S/A
Depth: 1.5 IN
Rows per Plot: 8 **Planting Method:** PLANTD planted
Row Spacing: 15 IN **Planting Equipment:** FE field equipment
Soil Temperature: 50 F **Seed Bed:** MEDTRA medium/trashy
Emergence Date: May-25-2020 **Soil Moisture:** NORMAL normal, adequate

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: ragweed, giant **Entry Date:** Jun-22-2020

Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: foxtail, giant **Entry Date:** Jun-22-2020

Pest 3 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf **Entry Date:** Jun-22-2020

Pest 4 Type: W **Code:** ERICA Conyza canadensis
Common Name: horseweed **Entry Date:** Jun-22-2020

Pest 5 Type: W **Code:** CHEAL Chenopodium album
Common Name: lambsquarters, common **Entry Date:** Jun-22-2020

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 200.1 FT2 **Treatments:** 12 **Tillage Type:** NOTILL no-till
Replications: 3 **Study Design:** RACOBL Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2019

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Rate	Tank Unit	Tank Mix Code	Tank Mix
1.	Apr-3-2020	HERB	Roundup Powermax	4.5	LBAE/GAL	SL	32	OZ/A Y		yes
2.	Apr-3-2020	HERB	2,4-D Ester	4	LBA/GAL	SC	16	OZ/A Y		yes

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Soil Description

Description Name: F-10 W
% Sand: 31 **% OM:** 1.6 **Texture:** L loam
% Silt: 54 **pH:** 6.5 **Soil Name:** Crosby
% Clay: 15 **CEC:** 11.8 **Fert. Level:** G good
Soil Drainage: G good

Application Description

	A	B
Application Date	May-7-2020	Jun-18-2020
Appl. Start Time	9:00 PM	8:00 AM
Appl. Stop Time	9:30 PM	8:30 AM
Interval to Prev. Appl.		42 DAYS
Application Method	SPRAY	SPRAY
Application Timing	PRE	POST
Application Placement	BROSOI	BROFOL
Applied By	Dobbels	Kimmet
Appl. Entry Date	May-8-2020	Jun-22-2020
Air Temperature Start, Stop	57 56 F	65 65 F
% Relative Humidity Start, Stop	53 55	79 79
Wind Velocity+Dir. Start	5 MPH WSW 3	3 MPH NE
Wind Velocity+Dir. Stop	5 MPH WSW 3	3 MPH NE
Wind Velocity+Dir. Max	7 MPH WSW 3	3 MPH NE
Wet Leaves (Y/N)	N no	N no
Soil Temperature	59 F	68 F
Soil Moisture	NORMAL	DRY
Soil Surface Condition	MEDTRA	MEDTRA
% Cloud Cover	50	70
Next Moisture Occurred On	May-8-2020	Jun-18-2020
Time to Next Moisture	12 HR	5 HR
Moisture 6 Hours after Appl.	0 IN	0.05 IN
Moisture 1 Week after Appl.	0.65 IN	0.88 IN

Crop Stage At Each Application

	A		B	
Crop 1 Code, BBCH Scale	GLXMA	BSOY	GLXMA	BSOY
Days after Emergence	-18		24	
Stage Majority, Percent			13	90
Stage Minimum, Percent			12	10
Stage Maximum, Percent			13	90
Height Average			6	IN
Height Minimum, Maximum			4	6

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale	AMBTR W	AMBTR W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	8	IN
Height Minimum, Maximum	2	14
Density Average	5	PLA/m2
Density Min, Max	3	6
Pest 2 Code, Type, Scale	SETFA W	SETFA W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	6	IN
Height Minimum, Maximum	1	12
Density Average	90	PLA/m2
Density Min, Max	85	120
Pest 3 Code, Type, Scale	ABUTH W	ABUTH W
Stage Majority, Percent	16	80
Stage Minimum, Percent	12	
Stage Maximum, Percent	18	
Height Average	2	IN
Height Minimum, Maximum	1	4
Density Average	1	PLA/m2
Density Min, Max	0	3
Pest 4 Code, Type, Scale	ERICA W	ERICA W
Stage Majority, Percent	19	100
Height Average	6	IN
Height Minimum, Maximum	3	9
Density Average	3	PLA/m2
Density Min, Max	1	5
Pest 5 Code, Type, Scale	CHEAL W	CHEAL W
Stage Majority, Percent	16	80
Stage Minimum, Percent	14	
Stage Maximum, Percent	19	
Height Average	3	IN
Height Minimum, Maximum	2	3
Density Average	2	PLA/m2
Density Min, Max	1	5

Application Equipment

	A	B
Appl. Equipment	6' AIXR	6' AIXR
Equipment Type	BACCAI	BACCAI
Operation Pressure	44 PSI	44 PSI
Nozzle Type	AIXR	AIXR
Nozzle Size	1110015	1110015
Nozzle Spacing	18 IN	18 IN
Boom Length	6.67 FT	6.67 FT
Boom Height	20 IN	20 IN
Ground Speed	3 MPH	3 MPH
Carrier	WATER	WATER
Application Amount	15 GAL/AC	15 GAL/AC
Mix Size	1 L	1 L
Propellant	COMCO2	COMCO2

Context	Date	By	Notes
STATUS	Mar-27-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'S' during trial creation.
STATUS	Apr-28-2020	Dr. Mark M. Loux	Automatically added by ARM: Trial Status updated to 'E' when Date entered.

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETLU	AMBTR	ERICA
Pest Scientific Name	Setaria faberi	Setaria pumila	Ambrosia trifida	Erigeron canadensis
Pest Name	Giant foxtail	foxtail, yellow	Giant ragweed	Canada horseweed
Crop Type, Code	C GLXMA			
Crop Name	Soybean			
Rating Date	Jun-16-2020	Jun-16-2020	Jun-16-2020	Jun-16-2020
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-17-2020	Jun-17-2020	Jun-17-2020	Jun-17-2020
Days After First/Last Applic.	40 40	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*
1	UTC					0 -	0 d	0 d	0 e	0 c
2	Zidua SC	146 g ai/ha	4 oz/a		A	2 -	43 c	30 c	0 e	13 c
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
3	Zidua SC	146 g ai/ha	4 oz/a		A	2 -	60 bc	40 bc	43 abc	100 a
	Alite 27	106 g ai/ha	3 oz/a		A					
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
4	Zidua Pro	161 g ai/ha	4.5 oz/a		A	2 -	63 abc	40 bc	10 de	73 ab
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
5	Zidua Pro	161 g ai/ha	4.5 oz/a		A	5 -	73 ab	57 ab	60 a	100 a
	Alite 27	106 g ai/ha	3 oz/a		A					
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
6	Zidua Pro	161 g ai/ha	4.5 oz/a		A	2 -	43 c	23 cd	30 bcd	100 a
	Alite 27	106 g ai/ha	3 oz/a		A					
7	Matador	1770 g ai/ha	43 oz/a		A	0 -	73 ab	57 ab	20 cde	100 a
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
8	Matador	1770 g ai/ha	43 oz/a		A	0 -	53 bc	27 c	17 de	100 a
	Alite 27	106 g ai/ha	3 oz/a		A					
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
9	Sonic	245 g ai/ha	5 oz/a		A	3 -	50 c	33 bc	47 ab	57 b
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 6,7,23 because error mean square = 0.

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Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	SETLU	AMBTR	ERICA
Pest Scientific Name	Setaria faberi	Setaria pumila	Ambrosia trifida	Erigeron canadensis
Pest Name	Giant foxtail	foxtail, yellow	Giant ragweed	Canada horseweed
Crop Type, Code	C GLXMA			
Crop Name	Soybean			
Rating Date	Jun-16-2020	Jun-16-2020	Jun-16-2020	Jun-16-2020
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Data Entry Date	Jun-17-2020	Jun-17-2020	Jun-17-2020	Jun-17-2020
Days After First/Last Applic.	40 40	40 40	40 40	40 40
Trt-Eval Interval	40 DA-A	40 DA-A	40 DA-A	40 DA-A
Plant-Eval Interval	40 DP-1	40 DP-1	40 DP-1	40 DP-1
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*
10	Sonic	245 g ai/ha	5 oz/a		A	2 -	57 bc	23 cd	50 ab	97 a
10	Alite 27	106 g ai/ha	3 oz/a		A					
10	Liberty	656 g ai/ha	32 oz/a		B					
10	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
10	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
11	Boundary	1370 g ai/ha	24 oz/a		A	0 -	47 c	43 bc	10 de	100 a
11	Liberty	656 g ai/ha	32 oz/a		B					
11	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
12	Boundary	1370 g ai/ha	24 oz/a		A	0 -	83 a	70 a	57 a	100 a
12	Alite 27	106 g ai/ha	3 oz/a		A					
12	Liberty	656 g ai/ha	32 oz/a		B					
12	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
12	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05						4.6	20.4	25.3	25.9	33.5
Standard Deviation						2.7	12.0	15.0	15.3	19.8
CV						197.35	22.36	40.51	53.53	25.24
Grand Mean						1.4	53.9	36.9	28.6	78.3
Levene's F						0.682	0.694	0.716	0.591	1.361
Levene's Prob(F)						0.742	0.732	0.712	0.818	0.253
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						1.9789*	-0.9374*	-0.0575	0.4584	-1.3914*
Kurtosis						3.1233*	0.7588	-0.5599	-0.7218	0.0703
Replicate F						2.311	0.708	1.649	1.504	1.620
Replicate Prob(F)						0.1228	0.5036	0.2151	0.2443	0.2206
Treatment F						0.975	9.301	4.666	6.186	10.101
Treatment Prob(F)						0.4958	0.0001	0.0010	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	SETLU	ECHCG
Pest Scientific Name	Setaria faberi	Setaria pumila	Echinochloa cr>
Pest Name	Giant foxtail	foxtail, yellow	Common barnyar>

Crop Type, Code	C GLXMA	C GLXMA			
Crop Name	Soybean	Soybean			
Rating Date	Jun-25-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Aug-10-2020	Aug-10-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Days After First/Last Applic.	49 7	54 12	54 12	54 12	54 12
Trt-Eval Interval	7 DA-B	12 DA-B	12 DA-B	12 DA-B	12 DA-B
Plant-Eval Interval	49 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
Days After Emergence	31 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
1	UTC					0 -	0 -	98 -	92 -	81 -
2	Zidua SC	146 g ai/ha	4 oz/a		A	0 -	0 -	97 -	83 -	75 -
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
3	Zidua SC	146 g ai/ha	4 oz/a		A	0 -	0 -	98 -	94 -	93 -
	Alite 27	106 g ai/ha	3 oz/a		A					
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
4	Zidua Pro	161 g ai/ha	4.5 oz/a		A	0 -	0 -	97 -	89 -	82 -
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
5	Zidua Pro	161 g ai/ha	4.5 oz/a		A	0 -	0 -	97 -	96 -	92 -
	Alite 27	106 g ai/ha	3 oz/a		A					
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
6	Zidua Pro	161 g ai/ha	4.5 oz/a		A	0 -	0 -	97 -	94 -	87 -
	Alite 27	106 g ai/ha	3 oz/a		A					
7	Matador	1770 g ai/ha	43 oz/a		A	0 -	0 -	98 -	97 -	93 -
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
8	Matador	1770 g ai/ha	43 oz/a		A	0 -	0 -	97 -	94 -	82 -
	Alite 27	106 g ai/ha	3 oz/a		A					
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
9	Sonic	245 g ai/ha	5 oz/a		A	0 -	0 -	96 -	92 -	83 -
	Liberty	656 g ai/ha	32 oz/a		B					
	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					

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Pest Type			W Weed	W Weed	W Weed
Pest Code			SETFA	SETLU	ECHCG
Pest Scientific Name			Setaria	Setaria	Echinochloa cr>
			faberi	pumila	
Pest Name			Giant foxtail	foxtail, yellow	Common barnyar>
Crop Type, Code	C GLXMA	C GLXMA			
Crop Name	Soybean	Soybean			
Rating Date	Jun-25-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Rating Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Aug-10-2020	Aug-10-2020	Jun-30-2020	Jun-30-2020	Jun-30-2020
Days After First/Last Applic.	49 7	54 12	54 12	54 12	54 12
Trt-Eval Interval	7 DA-B	12 DA-B	12 DA-B	12 DA-B	12 DA-B
Plant-Eval Interval	49 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
Days After Emergence	31 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	6*	7*	8*	9*	10*
10	Sonic	245 g ai/ha	5 oz/a		A	0 -	0 -	97 -	93 -	87 -
10	Alite 27	106 g ai/ha	3 oz/a		A					
10	Liberty	656 g ai/ha	32 oz/a		B					
10	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
10	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
11	Boundary	1370 g ai/ha	24 oz/a		A	0 -	0 -	97 -	94 -	83 -
11	Liberty	656 g ai/ha	32 oz/a		B					
11	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
12	Boundary	1370 g ai/ha	24 oz/a		A	0 -	0 -	98 -	97 -	94 -
12	Alite 27	106 g ai/ha	3 oz/a		A					
12	Liberty	656 g ai/ha	32 oz/a		B					
12	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
12	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05						.	.	3.3	8.9	12.4
Standard Deviation						0.0	0.0	1.9	5.3	7.3
CV						0.0	0.0	1.98	5.66	8.52
Grand Mean						0.0	0.0	97.2	93.0	85.9
Levene's F						0.00	0.00	0.287	0.447	1.04
Levene's Prob(F)						.	.	0.982	0.918	0.445
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						.	.	-0.1746	-1.2343*	-0.7882*
Kurtosis						.	.	-1.1272	0.7861	0.8762
Replicate F						0.000	0.000	0.729	0.773	2.113
Replicate Prob(F)						1.0000	1.0000	0.4935	0.4738	0.1447
Treatment F						0.000	0.000	0.368	1.552	2.029
Treatment Prob(F)						1.0000	1.0000	0.9553	0.1830	0.0761

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Pest Code	AMBTR	ERICA	SETFA	SETLU	ECHCG
Pest Scientific Name	Ambrosia trifida	Erigeron canadensis	Setaria faberii	Setaria pumila	Echinochloa crusgalli
Pest Name	Giant ragweed	Canada horseweed	foxtail, giant	foxtail, yellow	barnyardgrass
Crop Type, Code					
Crop Name					
Rating Date	Jun-30-2020	Jun-30-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-30-2020	Jun-30-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
Days After First/Last Applic.	54 12	54 12	69 27	69 27	69 27
Trt-Eval Interval	12 DA-B	12 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	54 DP-1	54 DP-1	69 DP-1	69 DP-1	69 DP-1
Days After Emergence	36 DE-1	36 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*
1	UTC					62 de		67 -	77 -	67 -
2	Zidua SC	146 g ai/ha	4 oz/a		A	68 cde		97 -	80 -	57 -
2	Liberty	656 g ai/ha	32 oz/a		B					
2	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
2	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
3	Zidua SC	146 g ai/ha	4 oz/a		A	95 ab		100 -	77 -	77 -
3	Alite 27	106 g ai/ha	3 oz/a		A					
3	Liberty	656 g ai/ha	32 oz/a		B					
3	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
3	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
4	Zidua Pro	161 g ai/ha	4.5 oz/a		A	62 de		100 -	89 -	63 -
4	Liberty	656 g ai/ha	32 oz/a		B					
4	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
4	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
5	Zidua Pro	161 g ai/ha	4.5 oz/a		A	93 ab		100 -	75 -	75 -
5	Alite 27	106 g ai/ha	3 oz/a		A					
5	Liberty	656 g ai/ha	32 oz/a		B					
5	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
5	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
6	Zidua Pro	161 g ai/ha	4.5 oz/a		A	88 abc		100 -	92 -	73 -
6	Alite 27	106 g ai/ha	3 oz/a		A					
7	Matador	1770 g ai/ha	43 oz/a		A	72 b-e		100 -	95 -	91 -
7	Liberty	656 g ai/ha	32 oz/a		B					
7	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
7	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
8	Matador	1770 g ai/ha	43 oz/a		A	93 ab		100 -	92 -	83 -
8	Alite 27	106 g ai/ha	3 oz/a		A					
8	Liberty	656 g ai/ha	32 oz/a		B					
8	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
8	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
9	Sonic	245 g ai/ha	5 oz/a		A	80 a-d		100 -	83 -	73 -
9	Liberty	656 g ai/ha	32 oz/a		B					
9	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
9	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 6,7,23 because error mean square = 0.

The Ohio State University

Residual Weed Control with Alite 27

Trial ID: 20ALITE27
 Protocol ID: 20ALITE27
 Project ID: MKD H 2020 US D62

Location: Trial Year: 2020
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alic Harris, BASF

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA	SETLU	ECHCG
Pest Scientific Name	Ambrosia trifid	Erigeron canadensis	Setaria faberii	Setaria pumila	Echinochloa crusgalli
Pest Name	Giant ragweed	Canada horseweed	foxtail, giant	foxtail, yellow	barnyardgrass
Crop Type, Code					
Crop Name					
Rating Date	Jun-30-2020	Jun-30-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jun-30-2020	Jun-30-2020	Jul-15-2020	Jul-15-2020	Jul-15-2020
Days After First/Last Applic.	54 12	54 12	69 27	69 27	69 27
Trt-Eval Interval	12 DA-B	12 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	54 DP-1	54 DP-1	69 DP-1	69 DP-1	69 DP-1
Days After Emergence	36 DE-1	36 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	11*	12*	13*	14*	15*
10	Sonic	245 g ai/ha	5 oz/a		A	92 abc	100 -	83 -	60 -	60 -
10	Alite 27	106 g ai/ha	3 oz/a		A					
10	Liberty	656 g ai/ha	32 oz/a		B					
10	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
10	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
11	Boundary	1370 g ai/ha	24 oz/a		A	53 e	100 -	78 -	78 -	78 -
11	Liberty	656 g ai/ha	32 oz/a		B					
11	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
12	Boundary	1370 g ai/ha	24 oz/a		A	100 a	100 -	89 -	83 -	83 -
12	Alite 27	106 g ai/ha	3 oz/a		A					
12	Liberty	656 g ai/ha	32 oz/a		B					
12	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
12	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05						24.3	20.6	16.8	21.6	23.9
Standard Deviation						14.4	12.2	9.9	12.8	14.1
CV						18.0	12.56	11.82	17.38	19.71
Grand Mean						79.9	96.9	84.1	73.4	71.5
Levene's F						0.463	2.191	0.598	0.62	0.814
Levene's Prob(F)						0.908	0.052	0.812	0.794	0.627
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						-0.6897	-5.4161*	-0.1725	-1.1779*	-1.4592*
Kurtosis						-0.7373	30.613*	-0.8249	1.9084*	2.7555*
Replicate F						0.256	0.918	0.152	0.621	0.049
Replicate Prob(F)						0.7768	0.4140	0.8599	0.5468	0.9524
Treatment F						3.664	1.859	1.511	1.927	2.242
Treatment Prob(F)						0.0046	0.1040	0.1970	0.0917	0.0515

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 6,7,23 because error mean square = 0.

The Ohio State University

Residual Weed Control with Alite 27

Trial ID: 20ALITE27
 Protocol ID: 20ALITE27
 Project ID: MKD H 2020 US D62

Location: Trial Year: 2020
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alic Harris, BASF

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA	SETLU	ECHCG
Pest Scientific Name	Ambrosia trifida	Conyza canadensis	Setaria faberii	Setaria pumila	Echinochloa crusgalli
Pest Name	ragweed, giant	horseweed	foxtail, giant	foxtail, yellow	barnyardgrass
Crop Type, Code					
Crop Name					
Rating Date	Jul-15-2020	Jul-15-2020	Jul-29-2020	Jul-29-2020	Jul-29-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-15-2020	Jul-15-2020	Jul-30-2020	Jul-30-2020	Jul-30-2020
Days After First/Last Applic.	69 27	69 27	83 41	83 41	83 41
Trt-Eval Interval	27 DA-B	27 DA-B	41 DA-B	41 DA-B	41 DA-B
Plant-Eval Interval	69 DP-1	69 DP-1	83 DP-1	83 DP-1	83 DP-1
Days After Emergence	51 DE-1	51 DE-1	65 DE-1	65 DE-1	65 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Unit	Appl Code	16*	17*	18*	19*	20*
1	UTC					43 cd	60 b	63 e	57 cd	57 cd
2	Zidua SC	146 g ai/ha	4 oz/a		A	37 d	92 a	70 de	53 d	53 d
2	Liberty	656 g ai/ha	32 oz/a		B					
2	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
2	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
3	Zidua SC	146 g ai/ha	4 oz/a		A	90 ab	100 a	67 de	73 ab	73 ab
3	Alite 27	106 g ai/ha	3 oz/a		A					
3	Liberty	656 g ai/ha	32 oz/a		B					
3	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
3	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
4	Zidua Pro	161 g ai/ha	4.5 oz/a		A	43 cd	100 a	88 ab	73 ab	73 ab
4	Liberty	656 g ai/ha	32 oz/a		B					
4	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
4	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
5	Zidua Pro	161 g ai/ha	4.5 oz/a		A	83 ab	100 a	73 cde	67 bc	67 bc
5	Alite 27	106 g ai/ha	3 oz/a		A					
5	Liberty	656 g ai/ha	32 oz/a		B					
5	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
5	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
6	Zidua Pro	161 g ai/ha	4.5 oz/a		A	78 ab	100 a	73 cde	67 bc	67 bc
6	Alite 27	106 g ai/ha	3 oz/a		A					
7	Matador	1770 g ai/ha	43 oz/a		A	65 bc	100 a	95 a	75 ab	75 ab
7	Liberty	656 g ai/ha	32 oz/a		B					
7	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
7	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
8	Matador	1770 g ai/ha	43 oz/a		A	83 ab	100 a	88 ab	73 ab	73 ab
8	Alite 27	106 g ai/ha	3 oz/a		A					
8	Liberty	656 g ai/ha	32 oz/a		B					
8	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
8	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
9	Sonic	245 g ai/ha	5 oz/a		A	67 bc	100 a	78 bcd	67 bc	67 bc
9	Liberty	656 g ai/ha	32 oz/a		B					
9	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
9	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 6,7,23 because error mean square = 0.

The Ohio State University

Residual Weed Control with Alite 27

Trial ID: 20ALITE27
 Protocol ID: 20ALITE27
 Project ID: MKD H 2020 US D62

Location: Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Alic Harris, BASF

Trial Year: 2020

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	ERICA	SETFA	SETLU	ECHCG
Pest Scientific Name	Ambrosia trifida	Conyza canadensis	Setaria faberii	Setaria pumila	Echinochloa crusgalli
Pest Name	ragweed, giant	horseweed	foxtail, giant	foxtail, yellow	barnyardgrass
Crop Type, Code					
Crop Name					
Rating Date	Jul-15-2020	Jul-15-2020	Jul-29-2020	Jul-29-2020	Jul-29-2020
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Data Entry Date	Jul-15-2020	Jul-15-2020	Jul-30-2020	Jul-30-2020	Jul-30-2020
Days After First/Last Applic.	69 27	69 27	83 41	83 41	83 41
Trt-Eval Interval	27 DA-B	27 DA-B	41 DA-B	41 DA-B	41 DA-B
Plant-Eval Interval	69 DP-1	69 DP-1	83 DP-1	83 DP-1	83 DP-1
Days After Emergence	51 DE-1	51 DE-1	65 DE-1	65 DE-1	65 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	16*	17*	18*	19*	20*
10	Sonic	245 g ai/ha	5 oz/a		A	83 ab	100 a	78 bcd	63 bcd	63 bcd
10	Alite 27	106 g ai/ha	3 oz/a		A					
10	Liberty	656 g ai/ha	32 oz/a		B					
10	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
10	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
11	Boundary	1370 g ai/ha	24 oz/a		A	40 cd	100 a	83 abc	70 b	70 b
11	Liberty	656 g ai/ha	32 oz/a		B					
11	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
11	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
12	Boundary	1370 g ai/ha	24 oz/a		A	100 a	100 a	75 cde	85 a	85 a
12	Alite 27	106 g ai/ha	3 oz/a		A					
12	Liberty	656 g ai/ha	32 oz/a		B					
12	Roundup Powermax	1260 g ai/ha	32 oz/a		B					
12	N PAK-AMS	2.5 % v/v	2.5 % v/v		B					
LSD P=.05						28.3	20.1	12.9	12.3	12.3
Standard Deviation						16.7	11.9	7.6	7.3	7.3
CV						24.62	12.37	9.78	10.61	10.61
Grand Mean						67.8	96.0	77.8	68.6	68.6
Levene's F						0.357	3.667	0.213	0.254	0.254
Levene's Prob(F)						0.961	0.004*	0.995	0.989	0.989
Rank X2						.	.	.	.	.
P(Rank X2)						.	.	.	.	.
Skewness						-0.2306	-4.394*	0.0118	-0.3482	-0.3482
Kurtosis						-1.0828	20.4202*	-0.8885	-0.6334	-0.6334
Replicate F						0.556	1.129	1.092	6.936	6.936
Replicate Prob(F)						0.5811	0.3414	0.3532	0.0046	0.0046
Treatment F						5.206	2.856	4.667	4.086	4.086
Treatment Prob(F)						0.0005	0.0174	0.0010	0.0024	0.0024

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

* Adjusted means

Could not calculate LSD (% mean diff) for columns 6,7,23 because error mean square = 0.

The Ohio State University

Residual Weed Control with Alite 27

Trial ID: 20ALITE27 Location: Trial Year: 2020
 Protocol ID: 20ALITE27 Investigator: Dr. Mark M. Loux
 Project ID: MKD H 2020 US D62 Study Director: Anthony Dobbels
 Sponsor Contact: Alic Harris, BASF

Pest Type	W Weed	W Weed
Pest Code	AMBTR	ERICA
Pest Scientific Name	Ambrosia trifida	Conyza canadensis
Pest Name	ragweed, giant	horseweed
Crop Type, Code		
Crop Name		
Rating Date	Jul-29-2020	Jul-29-2020
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1
Data Entry Date	Jul-30-2020	Jul-30-2020
Days After First/Last Applic.	83 41	83 41
Trt-Eval Interval	41 DA-B	41 DA-B
Plant-Eval Interval	83 DP-1	83 DP-1
Days After Emergence	65 DE-1	65 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate Rate Unit	Other Rate	Other Rate Unit	Appl Code	21*	22*	23
1	UTC					37 cde		57 b
2	Zidua SC	146 g ai/ha	4 oz/a		A	33 de		100 a
2	Liberty	656 g ai/ha	32 oz/a		B			
2	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
2	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
3	Zidua SC	146 g ai/ha	4 oz/a		A	80 a		100 a
3	Alite 27	106 g ai/ha	3 oz/a		A			
3	Liberty	656 g ai/ha	32 oz/a		B			
3	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
3	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
4	Zidua Pro	161 g ai/ha	4.5 oz/a		A	37 cde		97 a
4	Liberty	656 g ai/ha	32 oz/a		B			
4	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
4	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
5	Zidua Pro	161 g ai/ha	4.5 oz/a		A	70 ab		100 a
5	Alite 27	106 g ai/ha	3 oz/a		A			
5	Liberty	656 g ai/ha	32 oz/a		B			
5	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
5	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
6	Zidua Pro	161 g ai/ha	4.5 oz/a		A	57 a-d		100 a
6	Alite 27	106 g ai/ha	3 oz/a		A			
7	Matador	1770 g ai/ha	43 oz/a		A	40 b-e		100 a
7	Liberty	656 g ai/ha	32 oz/a		B			
7	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
7	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
8	Matador	1770 g ai/ha	43 oz/a		A	67 abc		100 a
8	Alite 27	106 g ai/ha	3 oz/a		A			
8	Liberty	656 g ai/ha	32 oz/a		B			
8	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
8	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
9	Sonic	245 g ai/ha	5 oz/a		A	63 a-d		100 a
9	Liberty	656 g ai/ha	32 oz/a		B			
9	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
9	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 6,7,23 because error mean square = 0.

The Ohio State University

Residual Weed Control with Alite 27

Trial ID: 20ALITE27 Location: Trial Year: 2020
 Protocol ID: 20ALITE27 Investigator: Dr. Mark M. Loux
 Project ID: MKD H 2020 US D62 Study Director: Anthony Dobbels
 Sponsor Contact: Alic Harris, BASF

Pest Type	W Weed	W Weed
Pest Code	AMBTR	ERICA
Pest Scientific Name	Ambrosia trifida	Conyza canadensis
Pest Name	ragweed, giant	horseweed
Crop Type, Code		
Crop Name		
Rating Date	Jul-29-2020	Jul-29-2020
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1
Data Entry Date	Jul-30-2020	Jul-30-2020
Days After First/Last Applic.	83 41	83 41
Trt-Eval Interval	41 DA-B	41 DA-B
Plant-Eval Interval	83 DP-1	83 DP-1
Days After Emergence	65 DE-1	65 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Other Rate	Other Rate	Appl Unit Code	21*	22*	23
10	Sonic	245 g ai/ha	5 oz/a		A	65 a-d		100 a
	Alite 27	106 g ai/ha	3 oz/a		A			
	Liberty	656 g ai/ha	32 oz/a		B			
10	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
10	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
11	Boundary	1370 g ai/ha	24 oz/a		A	23 e		100 a
	Liberty	656 g ai/ha	32 oz/a		B			
	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
12	Boundary	1370 g ai/ha	24 oz/a		A	77 a		100 a
	Alite 27	106 g ai/ha	3 oz/a		A			
	Liberty	656 g ai/ha	32 oz/a		B			
	Roundup Powermax	1260 g ai/ha	32 oz/a		B			
	N PAK-AMS	2.5 % v/v	2.5 % v/v		B			
LSD P=.05						31.9	20.2	.
Standard Deviation						18.9	11.9	.
CV						34.92	12.41	.
Grand Mean						54.0	96.1	.
Levene's F						0.289	3.177	.
Levene's Prob(F)						0.982	0.009*	.
Rank X2						.	.	.
P(Rank X2)						.	.	.
Skewness						0.0572	-4.3282*	.
Kurtosis						-0.9683	18.8595*	.
Replicate F						0.072	0.723	.
Replicate Prob(F)						0.9306	0.4965	.
Treatment F						3.054	3.275	.
Treatment Prob(F)						0.0124	0.0086	.

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 6,7,23 because error mean square = 0.

The Ohio State University

Residual Weed Control with Alite 27

Trial ID: 20ALITE27 Location: Trial Year: 2020
Protocol ID: 20ALITE27 Investigator: Dr. Mark M. Loux
Project ID: MKD H 2020 US D62 Study Director: Anthony Dobbels
Sponsor Contact: Alic Harris, BASF

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
SETLU, Setaria pumila, foxtail, yellow = US
AMBTR, Ambrosia trifida, Giant ragweed = US
ERICA, Erigeron canadensis, Canada horseweed = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US
SETFA, Setaria faberi, foxtail, giant = US
ECHCG, Echinochloa crus-galli, barnyardgrass = US
AMBTR, Ambrosia trifida, ragweed, giant = US
ERICA, Conyza canadensis, horseweed = US

Crop Type, Code

C = EPPO species (Bayer) codes
GLXMA, BSOY, Glycine max, Soybean = US

Rating Type

PHYGEN = phytotoxicity - general / injury
CONTRO = control / burndown or knockdown

Rating Unit

% = percent

Plant-Eval Interval

40 DP-1 = 1 GLXMA May-7-2020
49 DP-1 = 1 GLXMA May-7-2020
54 DP-1 = 1 GLXMA May-7-2020
69 DP-1 = 1 GLXMA May-7-2020
83 DP-1 = 1 GLXMA May-7-2020