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OSU Showcase Herbicide treatments

Trial ID: 17 SHOWCASE
 Protocol ID: 17 SHOWCASE
 Project ID: BASF/DAS/SYN SHOWCASE TRT

Location: Trial Year: 2017
 Investigator: Dr. Mark M. Loux
 Study Director: Bryan Reeb
 Sponsor Contact: BASF, Dow, Syngenta

General Trial Information

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Trial Location

City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368 **Climate Zone:** USWARM US Warm Continental

Latitude of LL Corner °: 39.86017 N
Longitude of LL Corner °: 83.67018 W
Altitude of LL Corner, Unit: 1092.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Bryan Reeb
Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: GLXMA Glycine max Soybean
Variety: Asgrow AG36X6
Description: Dicamba Tolerant

Planting Rate, Unit: 175000 P/A
Depth, Unit: 1 IN
Row Spacing, Unit: 15 IN
Soil Moisture: GOOD good

Planting Date: May-17-2017
Planting Method: PLANTD planted
Planting Equipment: FE Field Equipment
Emergence Date: May-29-2017

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 2 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 3 Type: W **Code:** IPOHE *Ipomoea hederacea*
Common Name: ivy-leaf morning glory

Pest 4 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 5 Type: W **Code:** ABUTH *Abutilon theophrasti*
Common Name: velvetleaf

Pest 6 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

Pest 7 Type: W **Code:** ECHCG *Echinochloa crus-galli*
Common Name: Common barnyard grass

Pest 8 Type: W **Code:** SIDSP *Sida spinosa*
Common Name: Prickly sida

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 10
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB� Randomized Complete Block (RCB)

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Soil Description

Description Name: F-7 East
% OM: 1.8
pH: 5.7
CEC: 16.2
Texture: SIL silt loam
Soil Name: Crosby
Fert. Level: G good
Soil Drainage: G good

Application Description

	A	B
Application Date:	May-19-2017	Jun-16-2017
Appl. Start Time:	10:20 AM	8:42 AM
Appl. Stop Time:	10:40 AM	8:52 AM
Application Method:	SPRAY	SPRAY
Application Placement:	BROSOI	BROFOL
Applied By:	ACKLEY	REEB
Air Temperature, Unit:	77 F	77 F
% Relative Humidity:	67	76
Wind Velocity, Unit:	1.5 MPH	3 MPH
Wind Direction:	SE	SW
Dew Presence (Y/N):		Y yes
Soil Temperature, Unit:	68 F	70 F
Soil Moisture:	VERWET	WET
% Cloud Cover:	30	30
Next Moisture Occurred On:	May-19-2017	Jun-18-2017
Time to Next Moisture, Unit:	0 DAY	2 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:		BBCH
Stage Majority, Percent:		13 100
Height, Unit:		5 IN
Height Minimum, Maximum:		4 5

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		14 100
Height, Unit:		7 IN
Height Minimum, Maximum:		5 8
Density, Unit:		205 m2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		21 100
Height, Unit:		9 IN
Height Minimum, Maximum:		8 10
Density, Unit:		13 m2
Pest 3 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:		13 100
Diameter, Unit:		6 IN
Height, Unit:		3 IN
Density, Unit:		1 m2
Pest 4 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:		15 100
Height, Unit:		2 IN
Density, Unit:		24 m2
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		14 100
Height, Unit:		1.5 IN
Density, Unit:		1 m2
Pest 6 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		21 100
Height, Unit:		3 IN
Density, Unit:		4 m2
Pest 7 Code, Type, Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:		21 100
Height, Unit:		4 IN
Density, Unit:		33 m2
Pest 8 Code, Type, Scale:	SIDSP W	SIDSP W
Density, Unit:		1 m2

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Application Equipment

	A	B
Appl. Equipment:	10' BACKPACK	10' BACKPACK
Equipment Type:	BACCAI	BACCAI
Operation Pressure, Unit:	44 PSI	44 PSI
Nozzle Type:	AIXR	AIXR
Nozzle Size:	11015	11015
Nozzle Spacing, Unit:	18 IN	18 IN
Nozzles/Row:	6	6
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	2 liters	2 liters
Propellant:	COMCO2	COMCO2

Date	By	Notes
Aug-1-2017	Dobbles	Overlaid with Roundup to clean up trial for harvest

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Pest Type	O Other	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR	CHEAL
Pest Name		Giant foxtail Common barnyar> Giant ragweed common lambsqu>			
Crop Code	GLXMA				
Crop Name	Soybean				
Rating Date	Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1	18 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	Zidua Pro	6 oz/a		A	0.0 a	83.3 abc	84.5 abc	66.3 a	100.0 a
1	Roundup Power Max	32 oz/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Zidua Pro	4.5 oz/a		A	0.0 a	81.8 abc	82.5 abc	65.0 a	100.0 a
2	Roundup Power Max	32 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Sonic	4 oz/a		A	0.0 a	67.5 cd	67.5 cd	61.3 a	100.0 a
3	Metribuzin	4 oz/a		A					
3	Durango DMA	32 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Sonic	6 oz/a		A	0.0 a	68.8 cd	70.0 cd	63.8 a	100.0 a
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Surveil Premix	2.8 oz/a		A	0.0 a	60.0 d	60.0 d	65.0 a	100.0 a
5	Durango DMA	32 oz/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Surveil Premix	4.2 oz/a		A	0.0 a	77.0 bc	76.8 bcd	73.8 a	99.5 a
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		B					
7	Boundary	1.75 pt/a		A	0.0 a	92.8 ab	93.8 ab	42.5 a	98.5 a
7	Flexstar GT 3.5	3.5 pt/a		B					
7	MSO	0.6 qt/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Boundary	1.75 pt/a		A	0.0 a	97.5 a	98.3 a	60.0 a	99.0 a
8	Prefix	2 pt/a		B					
8	Roundup Power Max	26 oz/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Broadaxe XC	25 oz/a		A	0.0 a	83.5 abc	84.0 abc	50.0 a	100.0 a
9	Flexstar GT 3.5	3.5 pt/a		B					
9	MSO	0.6 qt/a		B					
9	N-pak ams	1.5 qt/a		B					

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.
 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

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Pest Type		O Other	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	ECHCG	AMBTR	CHEAL	
Pest Name		Giant foxtail Common barnyar> Giant ragweed common lambsqu>				
Crop Code		GLXMA				
Crop Name		Soybean				
Rating Date		Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017
Rating Type		PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%	%
Number of Subsamples		1	1	1	1	1
Days After First/Last Applic.		28 28	28 28	28 28	28 28	28 28
Days After Emergence		18 DE-1	18 DE-1	18 DE-1	18 DE-1	18 DE-1
Trt Treatment	Other Other	Appl				
No. Name	Rate Rate	Unit Code	1	2	3	4
10 Boundary	1.75 pt/a	A	0.0 a	94.0 a	94.5 a	62.5 a
10 Sequence	3.5 pt/a	B				100.0 a
10 N-pak ams	1.5 qt/a	B				
LSD P=.05			.	16.47	17.10	22.46
Standard Deviation			0.00	11.35	11.79	15.48
CV			0.0	14.08	14.52	25.38
Bartlett's X2			0.0	12.085	10.227	7.94
P(Bartlett's X2)			.	0.209	0.332	0.439
Replicate F			0.000	2.604	2.722	3.206
Replicate Prob(F)			1.0000	0.0724	0.0640	0.0389
Treatment F			0.000	4.758	4.569	1.291
Treatment Prob(F)			1.0000	0.0008	0.0010	0.2866

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMARE	HIBTR	POLPY	IPHOE	SIDSP				
Pest Name	Redroot pigweed Venice mallow annual smartwe> ivy-leaf morni> Prickly sida								
Crop Code									
Crop Name									
Rating Date	Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28				
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1	18 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
1	Zidua Pro	6 oz/a		A	100.0 a	100.0 a	100.0 a	99.3 ab	100.0 a
1	Roundup Power Max	32 oz/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Zidua Pro	4.5 oz/a		A	100.0 a	100.0 a	100.0 a	99.0 ab	100.0 a
2	Roundup Power Max	32 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Sonic	4 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
3	Metribuzin	4 oz/a		A					
3	Durango DMA	32 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Sonic	6 oz/a		A	100.0 a	100.0 a	99.3 a	100.0 a	100.0 a
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Surveil Premix	2.8 oz/a		A	100.0 a	100.0 a	99.3 a	99.3 ab	100.0 a
5	Durango DMA	32 oz/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Surveil Premix	4.2 oz/a		A	100.0 a	100.0 a	100.0 a	98.8 ab	100.0 a
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		B					
7	Boundary	1.75 pt/a		A	100.0 a	100.0 a	98.8 a	97.5 bc	100.0 a
7	Flexstar GT 3.5	3.5 pt/a		B					
7	MSO	0.6 qt/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Boundary	1.75 pt/a		A	99.3 a	99.3 a	99.3 a	96.3 c	98.5 b
8	Prefix	2 pt/a		B					
8	Roundup Power Max	26 oz/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	99.5 a	98.8 ab	99.0 ab
9	Flexstar GT 3.5	3.5 pt/a		B					
9	MSO	0.6 qt/a		B					
9	N-pak ams	1.5 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMARE	HIBTR	POLPY	IPOHE	SIDSP			
Pest Name	Redroot pigweed	Venice mallow annual	smartwe>	ivy-leaf morni>	Prickly sida			
Crop Code								
Crop Name								
Rating Date	Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017	Jun-16-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28			
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1	18 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
10 Boundary	1.75 pt/a		A	100.0 a	100.0 a	99.8 a	93.8 d	99.0 ab
10 Sequence	3.5 pt/a		B					
10 N-pak ams	1.5 qt/a		B					
LSD P=.05				0.69	0.69	1.42	2.44	1.12
Standard Deviation				0.47	0.47	0.98	1.68	0.77
CV				0.47	0.47	0.98	1.71	0.77
Bartlett's X2				0.0	0.0	8.068	5.192	0.166
P(Bartlett's X2)				.	.	0.153	0.637	0.92
Replicate F				1.000	1.000	3.087	1.751	2.739
Replicate Prob(F)				0.4079	0.4079	0.0439	0.1804	0.0629
Treatment F				1.000	1.000	0.814	5.326	2.255
Treatment Prob(F)				0.4635	0.4635	0.6076	0.0003	0.0496

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Pest Type	W Weed	W Weed	O Other	W Weed	W Weed				
Pest Code	AMBEL	ABUTH		SETFA	ECHCG				
Pest Name	Common ragweed	velvetleaf		Giant foxtail	Common barnyar>				
Crop Code			GLXMA						
Crop Name			Soybean						
Rating Date	Jun-16-2017	Jun-16-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	28 28	28 28	41 13	41 13	41 13				
Days After Emergence	18 DE-1	18 DE-1	31 DE-1	31 DE-1	31 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	11	12	13	14	15
1	Zidua Pro	6 oz/a	A		100.0 a	100.0 a	0.0 d	92.5 a	92.3 a
1	Roundup Power Max	32 oz/a	B						
1	N-pak ams	1.5 qt/a	B						
2	Zidua Pro	4.5 oz/a	A		100.0 a	100.0 a	0.0 d	99.8 a	99.8 a
2	Roundup Power Max	32 oz/a	B						
2	N-pak ams	1.5 qt/a	B						
3	Sonic	4 oz/a	A		100.0 a	100.0 a	0.0 d	99.3 a	99.3 a
3	Metribuzin	4 oz/a	A						
3	Durango DMA	32 oz/a	B						
3	N-pak ams	1.5 qt/a	B						
4	Sonic	6 oz/a	A		100.0 a	100.0 a	0.5 cd	99.0 a	99.0 a
4	Durango DMA	32 oz/a	B						
4	N-pak ams	1.5 qt/a	B						
5	Surveil Premix	2.8 oz/a	A		100.0 a	100.0 a	0.0 d	99.5 a	99.3 a
5	Durango DMA	32 oz/a	B						
5	N-pak ams	1.5 qt/a	B						
6	Surveil Premix	4.2 oz/a	A		100.0 a	100.0 a	0.0 d	99.5 a	99.8 a
6	Durango DMA	32 oz/a	B						
6	N-pak ams	1.5 qt/a	B						
7	Boundary	1.75 pt/a	A		100.0 a	100.0 a	2.5 b	99.5 a	99.8 a
7	Flexstar GT 3.5	3.5 pt/a	B						
7	MSO	0.6 qt/a	B						
7	N-pak ams	1.5 qt/a	B						
8	Boundary	1.75 pt/a	A		99.8 a	99.8 a	4.0 a	100.0 a	100.0 a
8	Prefix	2 pt/a	B						
8	Roundup Power Max	26 oz/a	B						
8	N-pak ams	1.5 qt/a	B						
9	Broadaxe XC	25 oz/a	A		99.3 a	100.0 a	3.0 ab	99.3 a	99.5 a
9	Flexstar GT 3.5	3.5 pt/a	B						
9	MSO	0.6 qt/a	B						
9	N-pak ams	1.5 qt/a	B						

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Pest Type	W Weed	W Weed	O Other	W Weed	W Weed
Pest Code	AMBEL	ABUTH		SETFA	ECHCG
Pest Name	Common ragweed	velvetleaf		Giant foxtail	Common barnyar>
Crop Code			GLXMA		
Crop Name			Soybean		
Rating Date	Jun-16-2017	Jun-16-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	28 28	28 28	41 13	41 13	41 13
Days After Emergence	18 DE-1	18 DE-1	31 DE-1	31 DE-1	31 DE-1
Trt Treatment	Other	Other	Appl		
No. Name	Rate	Rate	Unit Code	11	12
10 Boundary	1.75 pt/a		A	100.0 a	100.0 a
10 Sequence	3.5 pt/a		B		1.3 c
10 N-pak ams	1.5 qt/a		B		100.0 a
					99.8 a
LSD P=.05	0.51	0.23		1.05	6.92
Standard Deviation	0.35	0.16		0.73	4.77
CV	0.35	0.16		64.63	4.83
Bartlett's X2	1.166	0.0		0.678	74.193
P(Bartlett's X2)	0.28	.		0.878	0.001*
Replicate F	0.545	1.000		1.560	1.076
Replicate Prob(F)	0.6554	0.4079		0.2219	0.3760
Treatment F	1.909	1.000		17.154	0.886
Treatment Prob(F)	0.0938	0.4635		0.0001	0.5499

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	CHEAL	AMARE	HIBTR	POLPY				
Pest Name	Giant ragweed common lambsqu> Redroot pigweed Venice mallow annual smartwe>								
Crop Code									
Crop Name									
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	41 13	41 13	41 13	41 13	41 13				
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20
1	Zidua Pro	6 oz/a		A	86.3 a	100.0 a	100.0 a	100.0 a	100.0 a
1	Roundup Power Max	32 oz/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Zidua Pro	4.5 oz/a		A	87.3 a	100.0 a	100.0 a	100.0 a	100.0 a
2	Roundup Power Max	32 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Sonic	4 oz/a		A	87.3 a	100.0 a	100.0 a	100.0 a	100.0 a
3	Metribuzin	4 oz/a		A					
3	Durango DMA	32 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Sonic	6 oz/a		A	90.3 a	100.0 a	100.0 a	100.0 a	100.0 a
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Surveil Premix	2.8 oz/a		A	89.8 a	100.0 a	100.0 a	100.0 a	100.0 a
5	Durango DMA	32 oz/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Surveil Premix	4.2 oz/a		A	95.3 a	99.5 a	100.0 a	100.0 a	100.0 a
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		B					
7	Boundary	1.75 pt/a		A	95.5 a	100.0 a	100.0 a	100.0 a	100.0 a
7	Flexstar GT 3.5	3.5 pt/a		B					
7	MSO	0.6 qt/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Boundary	1.75 pt/a		A	89.0 a	100.0 a	100.0 a	100.0 a	100.0 a
8	Prefix	2 pt/a		B					
8	Roundup Power Max	26 oz/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Broadaxe XC	25 oz/a		A	96.5 a	100.0 a	100.0 a	100.0 a	100.0 a
9	Flexstar GT 3.5	3.5 pt/a		B					
9	MSO	0.6 qt/a		B					
9	N-pak ams	1.5 qt/a		B					

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
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 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBTR	CHEAL	AMARE	HIBTR	POLPY			
Pest Name	Giant ragweed common lambsqu> Redroot pigweed Venice mallow annual smartwe>							
Crop Code								
Crop Name								
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	41 13	41 13	41 13	41 13	41 13			
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	16	17	18	19	20
10 Boundary	1.75 pt/a		A	90.5 a	100.0 a	100.0 a	100.0 a	99.8 a
10 Sequence	3.5 pt/a		B					
10 N-pak ams	1.5 qt/a		B					
LSD P=.05				11.40	0.46	.	.	0.23
Standard Deviation				7.85	0.32	0.00	0.00	0.16
CV				8.66	0.32	0.0	0.0	0.16
Bartlett's X2				5.164	0.0	0.0	0.0	0.0
P(Bartlett's X2)				0.82	.	.	.	.
Replicate F				2.397	1.000	0.000	0.000	1.000
Replicate Prob(F)				0.0901	0.4079	1.0000	1.0000	0.4079
Treatment F				0.900	1.000	0.000	0.000	1.000
Treatment Prob(F)				0.5384	0.4635	1.0000	1.0000	0.4635

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed				
Pest Code	IPOHE	SIDSP	AMBEL	ABUTH		SETFA				
Pest Name	ivy-leaf morni>	Prickly sida	Common ragweed	velvetleaf		Giant foxtail				
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-20-2017	Jul-20-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	41 13	41 13	41 13	41 13	62 34	62 34				
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	52 DE-1	52 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	21	22	23	24	25	26
1	Zidua Pro	6 oz/a		A	98.5 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	1 Roundup Power Max	32 oz/a		B						
	1 N-pak ams	1.5 qt/a		B						
2	Zidua Pro	4.5 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	2 Roundup Power Max	32 oz/a		B						
	2 N-pak ams	1.5 qt/a		B						
3	Sonic	4 oz/a		A	99.8 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	3 Metribuzin	4 oz/a		A						
	3 Durango DMA	32 oz/a		B						
	3 N-pak ams	1.5 qt/a		B						
4	Sonic	6 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	4 Durango DMA	32 oz/a		B						
	4 N-pak ams	1.5 qt/a		B						
5	Surveil Premix	2.8 oz/a		A	99.3 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	5 Durango DMA	32 oz/a		B						
	5 N-pak ams	1.5 qt/a		B						
6	Surveil Premix	4.2 oz/a		A	99.8 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	6 Durango DMA	32 oz/a		B						
	6 N-pak ams	1.5 qt/a		B						
7	Boundary	1.75 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	7 Flexstar GT 3.5	3.5 pt/a		B						
	7 MSO	0.6 qt/a		B						
	7 N-pak ams	1.5 qt/a		B						
8	Boundary	1.75 pt/a		A	99.8 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	8 Prefix	2 pt/a		B						
	8 Roundup Power Max	26 oz/a		B						
	8 N-pak ams	1.5 qt/a		B						
9	Broadaxe XC	25 oz/a		A	99.8 a	100.0 a	99.8 a	100.0 a	0.0 a	99.8 a
	9 Flexstar GT 3.5	3.5 pt/a		B						
	9 MSO	0.6 qt/a		B						
	9 N-pak ams	1.5 qt/a		B						

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed			
Pest Code	IPOHE	SIDSP	AMBEL	ABUTH		SETFA			
Pest Name	ivy-leaf morni>	Prickly sida	Common ragweed	velvetleaf		Giant foxtail			
Crop Code					GLXMA				
Crop Name					Soybean				
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	41 13	41 13	41 13	41 13	62 34	62 34			
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other	Other	Appl						
No. Name	Rate	Rate	Unit Code	21	22	23	24	25	26
10 Boundary	1.75 pt/a		A	97.0 a	99.8 a	100.0 a	100.0 a	0.0 a	100.0 a
10 Sequence	3.5 pt/a		B						
10 N-pak ams	1.5 qt/a		B						
LSD P=.05				2.25	0.23	0.23	.	.	0.23
Standard Deviation				1.55	0.16	0.16	0.00	0.00	0.16
CV				1.56	0.16	0.16	0.0	0.0	0.16
Bartlett's X2				30.724	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)				0.001*	.	.	.	.	.
Replicate F				3.629	1.000	1.000	0.000	0.000	1.000
Replicate Prob(F)				0.0255	0.4079	0.4079	1.0000	1.0000	0.4079
Treatment F				1.513	1.000	1.000	0.000	0.000	1.000
Treatment Prob(F)				0.1935	0.4635	0.4635	1.0000	1.0000	0.4635

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 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	HIBTR				
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed Venice mallow								
Crop Code									
Crop Name									
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	62 34	62 34	62 34	62 34	62 34				
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	27	28	29	30	31
1	Zidua Pro	6 oz/a		A	96.3 a	78.8 a	100.0 a	100.0 a	100.0 a
1	Roundup Power Max	32 oz/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Zidua Pro	4.5 oz/a		A	92.5 a	77.5 a	100.0 a	100.0 a	100.0 a
2	Roundup Power Max	32 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Sonic	4 oz/a		A	97.5 a	77.5 a	100.0 a	100.0 a	100.0 a
3	Metribuzin	4 oz/a		A					
3	Durango DMA	32 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Sonic	6 oz/a		A	97.3 a	77.5 a	100.0 a	100.0 a	100.0 a
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Surveil Premix	2.8 oz/a		A	99.3 a	86.3 a	100.0 a	100.0 a	100.0 a
5	Durango DMA	32 oz/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Surveil Premix	4.2 oz/a		A	97.3 a	82.5 a	100.0 a	100.0 a	100.0 a
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		B					
7	Boundary	1.75 pt/a		A	99.3 a	85.0 a	100.0 a	100.0 a	100.0 a
7	Flexstar GT 3.5	3.5 pt/a		B					
7	MSO	0.6 qt/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Boundary	1.75 pt/a		A	100.0 a	82.5 a	100.0 a	100.0 a	100.0 a
8	Prefix	2 pt/a		B					
8	Roundup Power Max	26 oz/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Broadaxe XC	25 oz/a		A	99.3 a	82.5 a	100.0 a	100.0 a	100.0 a
9	Flexstar GT 3.5	3.5 pt/a		B					
9	MSO	0.6 qt/a		B					
9	N-pak ams	1.5 qt/a		B					

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.
 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	HIBTR			
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed Venice mallow							
Crop Code								
Crop Name								
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	62 34	62 34	62 34	62 34	62 34			
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	27	28	29	30	31
10 Boundary	1.75 pt/a		A	100.0 a	81.3 a	100.0 a	100.0 a	100.0 a
10 Sequence	3.5 pt/a		B					
10 N-pak ams	1.5 qt/a		B					
LSD P=.05				5.99	16.17	.	.	.
Standard Deviation				4.13	11.15	0.00	0.00	0.00
CV				4.22	13.74	0.0	0.0	0.0
Bartlett's X2				16.176	4.809	0.0	0.0	0.0
P(Bartlett's X2)				0.024*	0.851	.	.	.
Replicate F				2.338	0.139	0.000	0.000	0.000
Replicate Prob(F)				0.0959	0.9357	1.0000	1.0000	1.0000
Treatment F				1.228	0.329	0.000	0.000	0.000
Treatment Prob(F)				0.3196	0.9575	1.0000	1.0000	1.0000

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The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	POLPY	IPOHE	SIDSP	AMBEL	ABUTH				
Pest Name	annual smartwe>	ivy-leaf morni>	Prickly sida	Common ragweed	velvetleaf				
Crop Code									
Crop Name									
Rating Date	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	62 34	62 34	62 34	62 34	62 34				
Days After Emergence	52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	32	33	34	35	36
1	Zidua Pro	6 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
1	Roundup Power Max	32 oz/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Zidua Pro	4.5 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
2	Roundup Power Max	32 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Sonic	4 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
3	Metribuzin	4 oz/a		A					
3	Durango DMA	32 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Sonic	6 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Surveil Premix	2.8 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
5	Durango DMA	32 oz/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Surveil Premix	4.2 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		B					
7	Boundary	1.75 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
7	Flexstar GT 3.5	3.5 pt/a		B					
7	MSO	0.6 qt/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Boundary	1.75 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
8	Prefix	2 pt/a		B					
8	Roundup Power Max	26 oz/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
9	Flexstar GT 3.5	3.5 pt/a		B					
9	MSO	0.6 qt/a		B					
9	N-pak ams	1.5 qt/a		B					

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		POLPY	IPOHE	SIDSP	AMBEL	ABUTH			
Pest Name		annual smartwe>	ivy-leaf morni>	Prickly sida	Common ragweed	velvetleaf			
Crop Code									
Crop Name									
Rating Date		Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017	Jul-20-2017			
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit		%	%	%	%	%			
Number of Subsamples		1	1	1	1	1			
Days After First/Last Applic.		62 34	62 34	62 34	62 34	62 34			
Days After Emergence		52 DE-1	52 DE-1	52 DE-1	52 DE-1	52 DE-1			
Trt No.	Treatment	Other Rate	Other Rate	Appl Unit Code	32	33	34	35	36
10	Boundary	1.75 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
10	Sequence	3.5 pt/a		B					
10	N-pak ams	1.5 qt/a		B					
LSD P=.05									
Standard Deviation		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
CV		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Bartlett's X2		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P(Bartlett's X2)		.	.	.	.	.	.	.	.
Replicate F		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Replicate Prob(F)		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Treatment F		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Treatment Prob(F)		1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE				
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed				
Crop Code									
Crop Name									
Rating Date	Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	73 45	73 45	73 45	73 45	73 45				
Days After Emergence	63 DE-1	63 DE-1	63 DE-1	63 DE-1	63 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	37	38	39	40	41
1	Zidua Pro	6 oz/a		A	97.5 a	97.0 a	68.8 a	100.0 a	100.0 a
1	Roundup Power Max	32 oz/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Zidua Pro	4.5 oz/a		A	99.0 a	97.0 a	60.0 a	100.0 a	100.0 a
2	Roundup Power Max	32 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Sonic	4 oz/a		A	96.5 a	97.0 a	62.5 a	100.0 a	100.0 a
3	Metribuzin	4 oz/a		A					
3	Durango DMA	32 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Sonic	6 oz/a		A	97.8 a	95.8 a	61.3 a	100.0 a	100.0 a
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Surveil Premix	2.8 oz/a		A	98.3 a	98.8 a	75.0 a	100.0 a	100.0 a
5	Durango DMA	32 oz/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Surveil Premix	4.2 oz/a		A	97.8 a	96.5 a	70.0 a	100.0 a	100.0 a
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		B					
7	Boundary	1.75 pt/a		A	100.0 a	95.0 a	77.5 a	100.0 a	100.0 a
7	Flexstar GT 3.5	3.5 pt/a		B					
7	MSO	0.6 qt/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Boundary	1.75 pt/a		A	100.0 a	99.5 a	73.8 a	100.0 a	100.0 a
8	Prefix	2 pt/a		B					
8	Roundup Power Max	26 oz/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Broadaxe XC	25 oz/a		A	99.5 a	99.5 a	75.0 a	100.0 a	100.0 a
9	Flexstar GT 3.5	3.5 pt/a		B					
9	MSO	0.6 qt/a		B					
9	N-pak ams	1.5 qt/a		B					

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.
 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE			
Pest Name	Giant foxtail Common barnyar> Giant ragweed common lambsqu> Redroot pigweed							
Crop Code								
Crop Name								
Rating Date	Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
Days After First/Last Applic.	73 45	73 45	73 45	73 45	73 45			
Days After Emergence	63 DE-1	63 DE-1	63 DE-1	63 DE-1	63 DE-1			
Trt Treatment	Other	Other	Appl					
No. Name	Rate	Rate	Unit Code	37	38	39	40	41
10 Boundary	1.75 pt/a		A	100.0 a	100.0 a	71.3 a	100.0 a	100.0 a
10 Sequence	3.5 pt/a		B					
10 N-pak ams	1.5 qt/a		B					
LSD P=.05				2.52	3.35	25.83	.	.
Standard Deviation				1.74	2.31	17.81	0.00	0.00
CV				1.76	2.37	25.62	0.0	0.0
Bartlett's X2				4.24	12.172	3.54	0.0	0.0
P(Bartlett's X2)				0.644	0.095	0.939	.	.
Replicate F				0.162	3.165	0.121	0.000	0.000
Replicate Prob(F)				0.9208	0.0406	0.9470	1.0000	1.0000
Treatment F				2.059	2.233	0.496	0.000	0.000
Treatment Prob(F)				0.0711	0.0516	0.8643	1.0000	1.0000

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
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 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	HIBTR	POLPY	IPHOE	SIDSP	AMBEL				
Pest Name	Venice mallow annual smartwe> ivy-leaf morni> Prickly sida Common ragweed								
Crop Code									
Crop Name									
Rating Date	Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	73 45	73 45	73 45	73 45	73 45				
Days After Emergence	63 DE-1	63 DE-1	63 DE-1	63 DE-1	63 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	42	43	44	45	46
1	Zidua Pro	6 oz/a		A	100.0 a	100.0 a	97.5 a	100.0 a	100.0 a
1	Roundup Power Max	32 oz/a		B					
1	N-pak ams	1.5 qt/a		B					
2	Zidua Pro	4.5 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
2	Roundup Power Max	32 oz/a		B					
2	N-pak ams	1.5 qt/a		B					
3	Sonic	4 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
3	Metribuzin	4 oz/a		A					
3	Durango DMA	32 oz/a		B					
3	N-pak ams	1.5 qt/a		B					
4	Sonic	6 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
4	Durango DMA	32 oz/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Surveil Premix	2.8 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
5	Durango DMA	32 oz/a		B					
5	N-pak ams	1.5 qt/a		B					
6	Surveil Premix	4.2 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
6	Durango DMA	32 oz/a		B					
6	N-pak ams	1.5 qt/a		B					
7	Boundary	1.75 pt/a		A	100.0 a	100.0 a	97.5 a	100.0 a	100.0 a
7	Flexstar GT 3.5	3.5 pt/a		B					
7	MSO	0.6 qt/a		B					
7	N-pak ams	1.5 qt/a		B					
8	Boundary	1.75 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
8	Prefix	2 pt/a		B					
8	Roundup Power Max	26 oz/a		B					
8	N-pak ams	1.5 qt/a		B					
9	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
9	Flexstar GT 3.5	3.5 pt/a		B					
9	MSO	0.6 qt/a		B					
9	N-pak ams	1.5 qt/a		B					

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 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

The Ohio State University

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		HIBTR	POLPY	IPHE	SIDSP	AMBEL			
Pest Name		Venice mallow annual smartwe> ivy-leaf morni>			Prickly sida Common ragweed				
Crop Code									
Crop Name									
Rating Date		Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017	Jul-31-2017			
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit		%	%	%	%	%			
Number of Subsamples		1	1	1	1	1			
Days After First/Last Applic.		73 45	73 45	73 45	73 45	73 45			
Days After Emergence		63 DE-1	63 DE-1	63 DE-1	63 DE-1	63 DE-1			
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	42	43	44	45	46
	10 Boundary	1.75 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a
	10 Sequence	3.5 pt/a		B					
	10 N-pak ams	1.5 qt/a		B					
LSD P=.05							3.30		
Standard Deviation		0.00	0.00				2.28	0.00	0.00
CV		0.0	0.0				2.29	0.0	0.0
Bartlett's X2		0.0	0.0				0.0	0.0	0.0
P(Bartlett's X2)									
Replicate F		0.000	0.000				0.643	0.000	0.000
Replicate Prob(F)		1.0000	1.0000				0.5941	1.0000	1.0000
Treatment F		0.000	0.000				0.857	0.000	0.000
Treatment Prob(F)		1.0000	1.0000				0.5728	1.0000	1.0000

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Pest Type W Weed
 Pest Code ABUTH
 Pest Name velvetleaf
 Crop Code
 Crop Name
 Rating Date Jul-31-2017
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Days After First/Last Applic. 73 45
 Days After Emergence 63 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	47	48
1	Zidua Pro	6 oz/a		A	100.0 a	
1	Roundup Power Max	32 oz/a		B		
1	N-pak ams	1.5 qt/a		B		
2	Zidua Pro	4.5 oz/a		A	100.0 a	
2	Roundup Power Max	32 oz/a		B		
2	N-pak ams	1.5 qt/a		B		
3	Sonic	4 oz/a		A	325.0 a	
3	Metribuzin	4 oz/a		A		
3	Durango DMA	32 oz/a		B		
3	N-pak ams	1.5 qt/a		B		
4	Sonic	6 oz/a		A	100.0 a	
4	Durango DMA	32 oz/a		B		
4	N-pak ams	1.5 qt/a		B		
5	Surveil Premix	2.8 oz/a		A	100.0 a	
5	Durango DMA	32 oz/a		B		
5	N-pak ams	1.5 qt/a		B		
6	Surveil Premix	4.2 oz/a		A	100.0 a	
6	Durango DMA	32 oz/a		B		
6	N-pak ams	1.5 qt/a		B		
7	Boundary	1.75 pt/a		A	100.0 a	
7	Flexstar GT 3.5	3.5 pt/a		B		
7	MSO	0.6 qt/a		B		
7	N-pak ams	1.5 qt/a		B		
8	Boundary	1.75 pt/a		A	100.0 a	
8	Prefix	2 pt/a		B		
8	Roundup Power Max	26 oz/a		B		
8	N-pak ams	1.5 qt/a		B		
9	Broadaxe XC	25 oz/a		A	100.0 a	
9	Flexstar GT 3.5	3.5 pt/a		B		
9	MSO	0.6 qt/a		B		
9	N-pak ams	1.5 qt/a		B		

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.
 Could not calculate LSD (% mean diff) for columns 1,18,19,24,25,29,30,31,32,33,34,35,36,40,41,42,43,45,46,48 because error mean square = 0.

The Ohio State University

Pest Type W Weed
 Pest Code ABUTH
 Pest Name velvetleaf
 Crop Code
 Crop Name
 Rating Date Jul-31-2017
 Rating Type CONTRO
 Rating Unit %
 Number of Subsamples 1 1
 Days After First/Last Applic. 73 45
 Days After Emergence 63 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	47	48
10	Boundary	1.75	pt/a	A	100.0	a
10	Sequence	3.5	pt/a	B		
10	N-pak ams	1.5	qt/a	B		

LSD P=.05 206.46 .
 Standard Deviation 142.30 .
 CV 116.17 .
 Bartlett's X2 0.0 .
 P(Bartlett's X2) . .

Replicate F 1.000
 Replicate Prob(F) 0.4079
 Treatment F 1.000
 Treatment Prob(F) 0.4635

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The Ohio State University

OSU Showcase Herbicide treatments

Trial ID: 17 SHOWCASE Location: Trial Year: 2017
Protocol ID: 17 SHOWCASE Investigator: Dr. Mark M. Loux
Project ID: BASF/DAS/SYN SHOWCASE TRT Study Director: Bryan Reeb
Sponsor Contact: BASF, Dow, Syngenta

Pest Type

O, Other, G-BYRO7, G-OthStg = Other animal or nematode
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, *Setaria faberi*, Giant foxtail = US
ECHCG, *Echinochloa crus-galli*, Common barnyard grass = US
AMBTR, *Ambrosia trifida*, Giant ragweed = US
CHEAL, *Chenopodium album*, common lambsquarters = US
AMARE, *Amaranthus retroflexus*, Redroot pigweed = US
HIBTR, *Hibiscus trionum*, Venice mallow = US
POLPY, *Persicaria pensylvanica*, annual smartweed = US
IPOHE, *Ipomoea hederacea*, ivy-leaf morning glory = US
SIDSP, *Sida spinosa*, Prickly sida = US
AMBEL, *Ambrosia artemisiifolia*, Common ragweed = US
ABUTH, *Abutilon theophrasti*, velvetleaf = US

Crop Code

GLXMA, BSOY, *Glycine max*, Soybean = US

Rating Type

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

Rating Unit

% = percent