

# The Ohio State University

## S-metolachlor/Dicamba premix university testing program in RR2X soybeans

Trial ID: 17 PRPOST1      Location: F-7 MIDDLE      Trial Year: 2017  
 Protocol ID: 17 PRPOST1      Investigator: Dr. Mark M. Loux  
 Project ID: HDC050A4-2017US      Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, 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** °: 39.86019      N  
**Longitude of LL Corner** °: 83.67055      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      **Planting Date:** May-17-2017  
**Depth, Unit:** 1 IN      **Planting Method:** PLANTD planted  
**Row Spacing, Unit:** 15 IN      **Planting Equipment:** FE      Field Equipment  
**Soil Moisture:** GOOD      good      **Emergence Date:** May-29-2017

### Pest Description

**Pest 1 Type:** W      **Code:** AMBTR Ambrosia trifida  
**Common Name:** Giant ragweed  
**Pest 2 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail  
**Pest 3 Type:** W      **Code:** CHEAL Chenopodium album  
**Common Name:** common lambsquarters  
**Pest 4 Type:** W      **Code:** IPOHE Ipomoea hederacea  
**Common Name:** ivy-leaf morning glory  
**Pest 5 Type:** W      **Code:** POLPY Persicaria pensylvanica  
**Common Name:** annual smartweed  
**Pest 6 Type:** W      **Code:** ECHCG Echinochloa crus-galli  
**Common Name:** Common barnyard grass  
**Pest 7 Type:** W      **Code:** AMARE Amaranthus retroflexus  
**Common Name:** Redroot pigweed  
**Pest 8 Type:** W      **Code:** ABUTH Abutilon theophrasti  
**Common Name:** velvetleaf

### Site and Design

**Treated Plot Width:** 10 FT      **Site Type:** FIELD      field  
**Treated Plot Length:** 30 FT      **Experimental Unit:** 1      PLOT      plot  
**Treated Plot Area:** 300 FT2      **Treatments:** 10      **Tillage Type:** CONTIL      conventional-till  
**Replications:** 4      **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	C
<b>Application Date:</b>	May-19-2017	Jun-8-2017	Jun-16-2017
<b>Appl. Start Time:</b>	10:10 AM	8:41 AM	8:55 AM
<b>Appl. Stop Time:</b>	10:20 AM	9:00 AM	9:10 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Placement:</b>	BROSOI	BROFOL	BROFOL
<b>Applied By:</b>	LOUX	LAMB	REEB
<b>Air Temperature, Unit:</b>	77 F	63 F	77 F
<b>% Relative Humidity:</b>	67	65	76
<b>Wind Velocity, Unit:</b>	1.5 MPH	8 MPH	3 MPH
<b>Wind Direction:</b>	SE	SE	SW
<b>Dew Presence (Y/N):</b>	N no	N no	Y yes
<b>Soil Temperature, Unit:</b>	68 F	59 F	70 F
<b>Soil Moisture:</b>	VERWET	SLIDRY	WET
<b>% Cloud Cover:</b>	30	40	
<b>Next Moisture Occurred On:</b>	May-19-2017	Jun-13-2017	Jun-18-2017
<b>Time to Next Moisture, Unit:</b>	0 DAY	5 DAY	2 DAY

## Crop Stage At Each Application

	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>		BBCH	BBCH
<b>Stage Majority, Percent:</b>		12 80	13 80
<b>Height, Unit:</b>		3 IN	5 IN

## Pest Stage At Each Application

	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>		18 100	21 100
<b>Height, Unit:</b>		3.5 IN	8 IN
<b>Height Minimum, Maximum:</b>		3 4	6 10
<b>Density, Unit:</b>		10 m2	
<b>Pest 2 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		14 100	14 100
<b>Height, Unit:</b>		3 IN	7 IN
<b>Height Minimum, Maximum:</b>			5 8
<b>Density, Unit:</b>		108 m2	
<b>Pest 3 Code, Type, Scale:</b>	CHEAL W	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>		15 100	21 100
<b>Height, Unit:</b>		1 IN	3 IN
<b>Density, Unit:</b>		7 m2	
<b>Pest 4 Code, Type, Scale:</b>	IPOHE W	IPOHE W	IPOHE W
<b>Stage Majority, Percent:</b>			16 100
<b>Diameter, Unit:</b>			6 IN
<b>Height, Unit:</b>			3 IN
<b>Density, Unit:</b>			1 m2
<b>Pest 5 Code, Type, Scale:</b>	POLPY W	POLPY W	POLPY W
<b>Stage Majority, Percent:</b>			22 100
<b>Height, Unit:</b>			6 IN
<b>Density, Unit:</b>			8 m2
<b>Pest 6 Code, Type, Scale:</b>	ECHCG W	ECHCG W	ECHCG W
<b>Stage Majority, Percent:</b>			21 100
<b>Height, Unit:</b>			4 IN
<b>Pest 7 Code, Type, Scale:</b>	AMARE W	AMARE W	AMARE W
<b>Stage Majority, Percent:</b>			15 100
<b>Height, Unit:</b>			2 IN
<b>Density, Unit:</b>			9 m2
<b>Pest 8 Code, Type, Scale:</b>	ABUTH W	ABUTH W	ABUTH W
<b>Stage Majority, Percent:</b>			14 100
<b>Height, Unit:</b>			1.5 IN
<b>Density, Unit:</b>			1 m2

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## Application Equipment

	A	B	C
<b>Appl. Equipment:</b>	6' BACKPACK	10' BACKPACK	10' BACKPACK
<b>Equipment Type:</b>	BACCAI	BACCAI	BACCAI
<b>Operation Pressure, Unit:</b>	44 PSI	46 PSI	46 PSI
<b>Nozzle Type:</b>	AIXR	TTI	TTI
<b>Nozzle Size:</b>	11015	11015	11015
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN	18 IN
<b>Nozzles/Row:</b>	4	4	4
<b>Boom Length, Unit:</b>	6.67 FT	10 FT	10 FT
<b>Boom Height, Unit:</b>	20 IN	20 IN	20 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	WATER	WATER	WATER
<b>Spray Volume, Unit:</b>	15 gal/ac	15 gal/ac	15 gal/ac
<b>Mix Size, Unit:</b>	1 liters	2 liters	2 liters
<b>Propellant:</b>	COMCO2	COMCO2	COMCO2

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

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 Protocol ID: 17 PRPOST1 Investigator: Dr. Mark M. Loux  
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 Sponsor Contact: Dain Bruns, Syngenta

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-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017				
Rating Type	PHYSTU	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	26 6	26 6	26 6	26 6	26 6				
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5
1	UTC				0.0 c	0.0 c	0.0 c	0.0 e	0.0 c
2	Boundary	1.8 pt/a		A	1.3 bc	88.5 a	88.5 a	10.0 de	90.0 b
	2 Class Act Ridion	0.6 qt/a		C					
	2 A21472C	56.5 oz/a		C					
	2 Roundup Power Max	28.4 oz/a		C					
3	Broadaxe XC	25 oz/a		A	0.0 c	85.8 a	85.8 a	15.0 cd	100.0 a
	3 Class Act Ridion	0.6 qt/a		C					
	3 A21472C	56.5 oz/a		C					
	3 Roundup Power Max	28.4 oz/a		C					
4	Prefix	32 oz/a		A	2.3 b	85.0 a	85.0 a	27.5 bc	92.5 ab
	4 Class Act Ridion	0.6 qt/a		C					
	4 A21472C	56.5 oz/a		C					
	4 Roundup Power Max	28.4 oz/a		C					
5	Boundary	1.8 pt/a		A	0.0 c	80.0 a	80.0 a	15.0 cd	97.5 ab
	5 Class Act Ridion	0.6 qt/a		C					
	5 A21472C	56.5 oz/a		C					
	5 Flexstar	16 oz/a		C					
	5 Roundup Power Max	28.4 oz/a		C					
6	Broadaxe XC	25 oz/a		A	0.5 bc	79.5 a	79.5 a	7.5 de	100.0 a
	6 Class Act Ridion	0.6 qt/a		C					
	6 A21472C	56.5 oz/a		C					
	6 Flexstar	16 oz/a		C					
	6 Roundup Power Max	28.4 oz/a		C					
7	Valor XLT @ 3 oz			A	0.8 bc	12.5 c	12.5 c	20.0 cd	94.5 ab
	7 Classic	1.24 oz/a		A					
	7 Valor SX	1.76 oz/a		A					
	7 Class Act Ridion	0.6 qt/a		C					
	7 Xtendimax	21.9 oz/a		C					
	7 Roundup Power Max	28.4 oz/a		C					
8	Class Act Ridion	0.6 qt/a		B	4.5 a	90.0 a	90.0 a	88.8 a	97.5 ab
	8 A21472C	56.5 oz/a		B					
	8 Roundup Power Max	28.4 oz/a		B					
9	Class Act Ridion	0.6 qt/a		B	4.5 a	92.0 a	92.0 a	85.0 a	99.3 a
	9 Xtendimax	21.9 oz/a		B					
	9 Roundup Power Max	28.4 oz/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 7,14,16,26,27,30,37,39,40 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-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017
Rating Type		PHYSTU	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%	%
Number of Subsamples		1	1	1	1	1
Days After First/Last Applic.		26 6	26 6	26 6	26 6	26 6
Days After Emergence		16 DE-1	16 DE-1	16 DE-1	16 DE-1	16 DE-1
Trt Treatment	Other Other	Appl				
No. Name	Rate Rate	Unit Code	1	2	3	4
10 Authority XL	4 oz/a	A	1.8 bc	47.5 b	45.0 b	37.5 b
10 Class Act Ridion	0.6 qt/a	C				100.0 a
10 A21472C	56.5 oz/a	C				
10 Roundup Power Max	28.4 oz/a	C				
LSD P=.05			2.10	15.37	15.36	14.66
Standard Deviation			1.44	10.60	10.59	10.10
CV			93.16	16.04	16.09	33.0
Bartlett's X2			5.4	7.856	7.263	6.717
P(Bartlett's X2)			0.494	0.448	0.509	0.567
Replicate F			0.272	0.456	0.542	1.589
Replicate Prob(F)			0.8452	0.7155	0.6574	0.2150
Treatment F			5.750	41.361	41.806	38.702
Treatment Prob(F)			0.0002	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed				
Pest Code	AMARE	HIBTR	SIDSP	ABUTH		SETFA				
Pest Name	Redroot pigweed	Venice mallow	Prickly sida	velvetleaf		Giant foxtail				
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-29-2017	Jun-29-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	26 6	26 6	26 6	26 6	41 13	41 13				
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	31 DE-1	31 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10	11
1	UTC				0.0 c	0.0 b	0.0 b	0.0 b	0.0 c	0.0 d
2	Boundary	1.8 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	3.5 b	100.0 a
	2 Class Act Ridion	0.6 qt/a		C						
	2 A21472C	56.5 oz/a		C						
	2 Roundup Power Max	28.4 oz/a		C						
3	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	2.5 bc	100.0 a
	3 Class Act Ridion	0.6 qt/a		C						
	3 A21472C	56.5 oz/a		C						
	3 Roundup Power Max	28.4 oz/a		C						
4	Prefix	32 oz/a		A	100.0 a	100.0 a	97.5 a	97.5 a	1.3 bc	100.0 a
	4 Class Act Ridion	0.6 qt/a		C						
	4 A21472C	56.5 oz/a		C						
	4 Roundup Power Max	28.4 oz/a		C						
5	Boundary	1.8 pt/a		A	100.0 a	100.0 a	99.5 a	97.5 a	8.8 a	100.0 a
	5 Class Act Ridion	0.6 qt/a		C						
	5 A21472C	56.5 oz/a		C						
	5 Flexstar	16 oz/a		C						
	5 Roundup Power Max	28.4 oz/a		C						
6	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	95.0 a	100.0 a	10.0 a	100.0 a
	6 Class Act Ridion	0.6 qt/a		C						
	6 A21472C	56.5 oz/a		C						
	6 Flexstar	16 oz/a		C						
	6 Roundup Power Max	28.4 oz/a		C						
7	Valor XLT @ 3 oz			A	97.5 b	100.0 a	100.0 a	100.0 a	0.0 c	100.0 a
	7 Classic	1.24 oz/a		A						
	7 Valor SX	1.76 oz/a		A						
	7 Class Act Ridion	0.6 qt/a		C						
	7 Xtendimax	21.9 oz/a		C						
	7 Roundup Power Max	28.4 oz/a		C						
8	Class Act Ridion	0.6 qt/a		B	100.0 a	100.0 a	100.0 a	100.0 a	0.8 bc	91.5 b
	8 A21472C	56.5 oz/a		B						
	8 Roundup Power Max	28.4 oz/a		B						
9	Class Act Ridion	0.6 qt/a		B	100.0 a	100.0 a	98.0 a	100.0 a	0.0 c	50.0 c
	9 Xtendimax	21.9 oz/a		B						
	9 Roundup Power Max	28.4 oz/a		B						

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed				
Pest Code	AMARE	HIBTR	SIDSP	ABUTH		SETFA				
Pest Name	Redroot pigweed	Venice mallow	Prickly sida	velvetleaf		Giant foxtail				
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-14-2017	Jun-29-2017	Jun-29-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	26 6	26 6	26 6	26 6	41 13	41 13				
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	16 DE-1	31 DE-1	31 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10	11
10	Authority XL	4 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	2.8 bc	100.0 a
10	Class Act Ridion	0.6 qt/a		C						
10	A21472C	56.5 oz/a		C						
10	Roundup Power Max	28.4 oz/a		C						
LSD P=.05		2.29	.		5.36	3.30	3.39	3.92		
Standard Deviation		1.58	0.00		3.69	2.28	2.33	2.70		
CV		1.76	0.0		4.15	2.54	79.12	3.21		
Bartlett's X2		0.0	0.0		12.586	0.0	9.086	0.0		
P(Bartlett's X2)		.	.		0.006*	.	0.169	.		
Replicate F		1.000	0.000		0.680	0.643	1.585	1.000		
Replicate Prob(F)		0.4079	1.0000		0.5722	0.5941	0.2161	0.4079		
Treatment F		1592.111	0.000		287.632	763.714	9.604	612.483		
Treatment Prob(F)		0.0001	1.0000		0.0001	0.0001	0.0001	0.0001		

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Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	CHEAL	AMARE				
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed							
Crop Code								
Crop Name								
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Days After First/Last Applic.	41 13	41 13	41 13	41 13				
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	12	13	14	15
1	UTC				0.0 d	0.0 d	0.0 b	0.0 c
2	Boundary	1.8 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a
	2 Class Act Ridion	0.6 qt/a		C				
	2 A21472C	56.5 oz/a		C				
	2 Roundup Power Max	28.4 oz/a		C				
3	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a
	3 Class Act Ridion	0.6 qt/a		C				
	3 A21472C	56.5 oz/a		C				
	3 Roundup Power Max	28.4 oz/a		C				
4	Prefix	32 oz/a		A	100.0 a	99.5 a	100.0 a	100.0 a
	4 Class Act Ridion	0.6 qt/a		C				
	4 A21472C	56.5 oz/a		C				
	4 Roundup Power Max	28.4 oz/a		C				
5	Boundary	1.8 pt/a		A	100.0 a	99.5 a	100.0 a	100.0 a
	5 Class Act Ridion	0.6 qt/a		C				
	5 A21472C	56.5 oz/a		C				
	5 Flexstar	16 oz/a		C				
	5 Roundup Power Max	28.4 oz/a		C				
6	Broadaxe XC	25 oz/a		A	99.3 a	99.5 a	100.0 a	100.0 a
	6 Class Act Ridion	0.6 qt/a		C				
	6 A21472C	56.5 oz/a		C				
	6 Flexstar	16 oz/a		C				
	6 Roundup Power Max	28.4 oz/a		C				
7	Valor XLT @ 3 oz			A	98.8 a	99.5 a	100.0 a	100.0 a
	7 Classic	1.24 oz/a		A				
	7 Valor SX	1.76 oz/a		A				
	7 Class Act Ridion	0.6 qt/a		C				
	7 Xtendimax	21.9 oz/a		C				
	7 Roundup Power Max	28.4 oz/a		C				
8	Class Act Ridion	0.6 qt/a		B	89.5 b	83.8 b	100.0 a	100.0 a
	8 A21472C	56.5 oz/a		B				
	8 Roundup Power Max	28.4 oz/a		B				
9	Class Act Ridion	0.6 qt/a		B	50.0 c	75.0 c	100.0 a	99.3 b
	9 Xtendimax	21.9 oz/a		B				
	9 Roundup Power Max	28.4 oz/a		B				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed			
Crop Code				
Crop Name				
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	41 13	41 13	41 13	41 13
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	
No. Name				12 13 14 15
10 Authority XL	4 oz/a		A	99.5 a 98.8 a 100.0 a 100.0 a
10 Class Act Ridion	0.6 qt/a		C	
10 A21472C	56.5 oz/a		C	
10 Roundup Power Max	28.4 oz/a		C	
LSD P=.05	6.17	6.21		0.69
Standard Deviation	4.25	4.28	0.00	0.47
CV	5.08	5.0	0.0	0.53
Bartlett's X2	22.213	38.889	0.0	0.0
P(Bartlett's X2)	0.001*	0.001*	.	.
Replicate F	1.893	1.690	0.000	1.000
Replicate Prob(F)	0.1546	0.1926	1.0000	0.4079
Treatment F	244.462	213.593	0.000	17749.150
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001

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 7,14,16,26,27,30,37,39,40 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	POLPY	HIBTR	SIDSP	ABUTH		SETFA				
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf		Giant foxtail				
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-11-2017	Jul-11-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	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	53 25	53 25				
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	43 DE-1	43 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20	21
1	UTC				0.0 b	0.0 c	0.0 c	0.0 c	0.0 b	0.0 c
2	Boundary	1.8 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.8 b	99.8 a
	2 Class Act Ridion	0.6 qt/a		C						
	2 A21472C	56.5 oz/a		C						
	2 Roundup Power Max	28.4 oz/a		C						
3	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.8 b	99.8 a
	3 Class Act Ridion	0.6 qt/a		C						
	3 A21472C	56.5 oz/a		C						
	3 Roundup Power Max	28.4 oz/a		C						
4	Prefix	32 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 b	100.0 a
	4 Class Act Ridion	0.6 qt/a		C						
	4 A21472C	56.5 oz/a		C						
	4 Roundup Power Max	28.4 oz/a		C						
5	Boundary	1.8 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	6.3 a	99.8 a
	5 Class Act Ridion	0.6 qt/a		C						
	5 A21472C	56.5 oz/a		C						
	5 Flexstar	16 oz/a		C						
	5 Roundup Power Max	28.4 oz/a		C						
6	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	7.5 a	100.0 a
	6 Class Act Ridion	0.6 qt/a		C						
	6 A21472C	56.5 oz/a		C						
	6 Flexstar	16 oz/a		C						
	6 Roundup Power Max	28.4 oz/a		C						
7	Valor XLT @ 3 oz			A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 b	95.3 a
	7 Classic	1.24 oz/a		A						
	7 Valor SX	1.76 oz/a		A						
	7 Class Act Ridion	0.6 qt/a		C						
	7 Xtendimax	21.9 oz/a		C						
	7 Roundup Power Max	28.4 oz/a		C						
8	Class Act Ridion	0.6 qt/a		B	100.0 a	99.5 b	99.3 a	100.0 a	0.0 b	95.8 a
	8 A21472C	56.5 oz/a		B						
	8 Roundup Power Max	28.4 oz/a		B						
9	Class Act Ridion	0.6 qt/a		B	100.0 a	100.0 a	97.5 b	100.0 a	0.0 b	47.5 b
	9 Xtendimax	21.9 oz/a		B						
	9 Roundup Power Max	28.4 oz/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 7,14,16,26,27,30,37,39,40 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	POLPY	HIBTR	SIDSP	ABUTH		SETFA			
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf		Giant foxtail			
Crop Code					GLXMA				
Crop Name					Soybean				
Rating Date	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jun-29-2017	Jul-11-2017	Jul-11-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	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	53 25	53 25			
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	43 DE-1	43 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20	21
10 Authority XL	4 oz/a		A	100.0 a	100.0 a	100.0 a	99.5 b	2.0 b	99.3 a
10 Class Act Ridion	0.6 qt/a		C						
10 A21472C	56.5 oz/a		C						
10 Roundup Power Max	28.4 oz/a		C						
LSD P=.05					0.46	1.53	0.46	2.19	9.48
Standard Deviation				0.00	0.32	1.06	0.32	1.51	6.54
CV				0.0	0.35	1.18	0.35	87.69	7.81
Bartlett's X2				0.0	0.0	1.183	0.0	1.986	58.579
P(Bartlett's X2)				.	.	0.277	.	0.738	0.001*
Replicate F				0.000	1.000	0.501	1.000	1.963	1.798
Replicate Prob(F)				1.0000	0.4079	0.6846	0.4079	0.1433	0.1713
Treatment F				0.000	39956.560	3567.384	39956.560	13.730	105.532
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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 7,14,16,26,27,30,37,39,40 because error mean square = 0.

# The Ohio State University

Pest Type				W Weed	W Weed	W Weed	W Weed	
Pest Code				ECHCG	AMBTR	CHEAL	AMARE	
Pest Name				Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed	
Crop Code								
Crop Name								
Rating Date				Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit				%	%	%	%	
Number of Subsamples				1	1	1	1	
Days After First/Last Applic.				53 25	53 25	53 25	53 25	
Days After Emergence				43 DE-1	43 DE-1	43 DE-1	43 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	22	23	24	25
1	UTC				0.0 c	0.0 d	0.0 c	0.0 c
2	Boundary	1.8 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a
	2 Class Act Ridion	0.6 qt/a		C				
	2 A21472C	56.5 oz/a		C				
	2 Roundup Power Max	28.4 oz/a		C				
3	Broadaxe XC	25 oz/a		A	99.5 a	98.8 a	100.0 a	100.0 a
	3 Class Act Ridion	0.6 qt/a		C				
	3 A21472C	56.5 oz/a		C				
	3 Roundup Power Max	28.4 oz/a		C				
4	Prefix	32 oz/a		A	99.5 a	96.8 a	100.0 a	100.0 a
	4 Class Act Ridion	0.6 qt/a		C				
	4 A21472C	56.5 oz/a		C				
	4 Roundup Power Max	28.4 oz/a		C				
5	Boundary	1.8 pt/a		A	99.5 a	99.3 a	100.0 a	100.0 a
	5 Class Act Ridion	0.6 qt/a		C				
	5 A21472C	56.5 oz/a		C				
	5 Flexstar	16 oz/a		C				
	5 Roundup Power Max	28.4 oz/a		C				
6	Broadaxe XC	25 oz/a		A	99.5 a	100.0 a	100.0 a	100.0 a
	6 Class Act Ridion	0.6 qt/a		C				
	6 A21472C	56.5 oz/a		C				
	6 Flexstar	16 oz/a		C				
	6 Roundup Power Max	28.4 oz/a		C				
7	Valor XLT @ 3 oz			A	95.8 a	97.0 a	100.0 a	100.0 a
	7 Classic	1.24 oz/a		A				
	7 Valor SX	1.76 oz/a		A				
	7 Class Act Ridion	0.6 qt/a		C				
	7 Xtendimax	21.9 oz/a		C				
	7 Roundup Power Max	28.4 oz/a		C				
8	Class Act Ridion	0.6 qt/a		B	93.8 a	78.8 b	100.0 a	100.0 a
	8 A21472C	56.5 oz/a		B				
	8 Roundup Power Max	28.4 oz/a		B				
9	Class Act Ridion	0.6 qt/a		B	40.0 b	55.0 c	97.5 b	96.3 b
	9 Xtendimax	21.9 oz/a		B				
	9 Roundup Power Max	28.4 oz/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 7,14,16,26,27,30,37,39,40 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	CHEAL	AMARE				
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed							
Crop Code								
Crop Name								
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Number of Subsamples	1	1	1	1				
Days After First/Last Applic.	53 25	53 25	53 25	53 25				
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	22	23	24	25
	10 Authority XL	4 oz/a		A	98.8 a	98.5 a	100.0 a	100.0 a
	10 Class Act Ridion	0.6 qt/a		C				
	10 A21472C	56.5 oz/a		C				
	10 Roundup Power Max	28.4 oz/a		C				
LSD P=.05					6.48	8.49	2.29	3.44
Standard Deviation					4.47	5.85	1.58	2.37
CV					5.41	7.1	1.76	2.65
Bartlett's X2					42.189	27.143	0.0	0.0
P(Bartlett's X2)					0.001*	0.001*	.	.
Replicate F					3.423	1.415	1.000	1.000
Replicate Prob(F)					0.0312	0.2599	0.4079	0.4079
Treatment F					236.824	122.036	1592.111	706.185
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001

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 7,14,16,26,27,30,37,39,40 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	POLPY	HIBTR	SIDSP	ABUTH		SETFA				
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf		Giant foxtail				
Crop Code					GLXMA					
Crop Name					Soybean					
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-19-2017	Jul-19-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	53 25	53 25	53 25	53 25	61 33	61 33				
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1	51 DE-1	51 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	26	27	28	29	30	31
1	UTC				0.0 b	0.0 b	0.0 d	0.0 c	0.0 a	0.0 d
2	Boundary	1.8 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	99.3 a
	2 Class Act Ridion	0.6 qt/a		C						
	2 A21472C	56.5 oz/a		C						
	2 Roundup Power Max	28.4 oz/a		C						
3	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	3 Class Act Ridion	0.6 qt/a		C						
	3 A21472C	56.5 oz/a		C						
	3 Roundup Power Max	28.4 oz/a		C						
4	Prefix	32 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
	4 Class Act Ridion	0.6 qt/a		C						
	4 A21472C	56.5 oz/a		C						
	4 Roundup Power Max	28.4 oz/a		C						
5	Boundary	1.8 pt/a		A	100.0 a	100.0 a	97.5 ab	100.0 a	0.0 a	100.0 a
	5 Class Act Ridion	0.6 qt/a		C						
	5 A21472C	56.5 oz/a		C						
	5 Flexstar	16 oz/a		C						
	5 Roundup Power Max	28.4 oz/a		C						
6	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	98.8 ab	100.0 a	0.0 a	99.0 a
	6 Class Act Ridion	0.6 qt/a		C						
	6 A21472C	56.5 oz/a		C						
	6 Flexstar	16 oz/a		C						
	6 Roundup Power Max	28.4 oz/a		C						
7	Valor XLT @ 3 oz			A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	97.0 a
	7 Classic	1.24 oz/a		A						
	7 Valor SX	1.76 oz/a		A						
	7 Class Act Ridion	0.6 qt/a		C						
	7 Xtendimax	21.9 oz/a		C						
	7 Roundup Power Max	28.4 oz/a		C						
8	Class Act Ridion	0.6 qt/a		B	100.0 a	100.0 a	85.0 c	100.0 a	0.0 a	88.8 b
	8 A21472C	56.5 oz/a		B						
	8 Roundup Power Max	28.4 oz/a		B						
9	Class Act Ridion	0.6 qt/a		B	100.0 a	100.0 a	90.0 bc	97.5 b	0.0 a	35.0 c
	9 Xtendimax	21.9 oz/a		B						
	9 Roundup Power Max	28.4 oz/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 7,14,16,26,27,30,37,39,40 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	POLPY	HIBTR	SIDSP	ABUTH	GLXMA	SETFA			
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf		Giant foxtail			
Crop Code					GLXMA				
Crop Name					Soybean				
Rating Date	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-11-2017	Jul-19-2017	Jul-19-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	53 25	53 25	53 25	53 25	61 33	61 33			
Days After Emergence	43 DE-1	43 DE-1	43 DE-1	43 DE-1	51 DE-1	51 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	26	27	28	29	30	31
10 Authority XL	4 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	0.0 a	100.0 a
10 Class Act Ridion	0.6 qt/a		C						
10 A21472C	56.5 oz/a		C						
10 Roundup Power Max	28.4 oz/a		C						
LSD P=.05						8.97	2.29		6.14
Standard Deviation				0.00	0.00	6.18	1.58	0.00	4.23
CV				0.0	0.0	7.1	1.76	0.0	5.16
Bartlett's X2				0.0	0.0	8.45	0.0	0.0	19.159
P(Bartlett's X2)				.	.	0.038*	.	.	0.001*
Replicate F				0.000	0.000	1.412	1.000	0.000	2.919
Replicate Prob(F)				1.0000	1.0000	0.2609	0.4079	1.0000	0.0522
Treatment F				0.000	0.000	100.886	1592.111	0.000	275.486
Treatment Prob(F)				1.0000	1.0000	0.0001	0.0001	1.0000	0.0001

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 7,14,16,26,27,30,37,39,40 because error mean square = 0.

# The Ohio State University

Pest Type				W Weed	W Weed	W Weed	W Weed	
Pest Code				ECHCG	AMBTR	CHEAL	AMARE	
Pest Name				Common barnyar>	Giant ragweed common	lambsqu>	Redroot pigweed	
Crop Code								
Crop Name								
Rating Date				Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017	
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit				%	%	%	%	
Number of Subsamples				1	1	1	1	
Days After First/Last Applic.				61 33	61 33	61 33	61 33	
Days After Emergence				51 DE-1	51 DE-1	51 DE-1	51 DE-1	
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	32	33	34	35
1	UTC				0.0 c	0.0 d	0.0 c	0.0 c
2	Boundary	1.8 pt/a		A	99.3 a	96.3 a	100.0 a	100.0 a
	2 Class Act Ridion	0.6 qt/a		C				
	2 A21472C	56.5 oz/a		C				
	2 Roundup Power Max	28.4 oz/a		C				
3	Broadaxe XC	25 oz/a		A	99.5 a	93.8 a	100.0 a	100.0 a
	3 Class Act Ridion	0.6 qt/a		C				
	3 A21472C	56.5 oz/a		C				
	3 Roundup Power Max	28.4 oz/a		C				
4	Prefix	32 oz/a		A	76.8 b	93.8 a	100.0 a	100.0 a
	4 Class Act Ridion	0.6 qt/a		C				
	4 A21472C	56.5 oz/a		C				
	4 Roundup Power Max	28.4 oz/a		C				
5	Boundary	1.8 pt/a		A	97.0 ab	100.0 a	100.0 a	100.0 a
	5 Class Act Ridion	0.6 qt/a		C				
	5 A21472C	56.5 oz/a		C				
	5 Flexstar	16 oz/a		C				
	5 Roundup Power Max	28.4 oz/a		C				
6	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a
	6 Class Act Ridion	0.6 qt/a		C				
	6 A21472C	56.5 oz/a		C				
	6 Flexstar	16 oz/a		C				
	6 Roundup Power Max	28.4 oz/a		C				
7	Valor XLT @ 3 oz			A	91.5 ab	97.5 a	100.0 a	100.0 a
	7 Classic	1.24 oz/a		A				
	7 Valor SX	1.76 oz/a		A				
	7 Class Act Ridion	0.6 qt/a		C				
	7 Xtendimax	21.9 oz/a		C				
	7 Roundup Power Max	28.4 oz/a		C				
8	Class Act Ridion	0.6 qt/a		B	85.0 ab	65.0 b	100.0 a	100.0 a
	8 A21472C	56.5 oz/a		B				
	8 Roundup Power Max	28.4 oz/a		B				
9	Class Act Ridion	0.6 qt/a		B	17.5 c	47.5 c	99.5 b	92.5 b
	9 Xtendimax	21.9 oz/a		B				
	9 Roundup Power Max	28.4 oz/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 7,14,16,26,27,30,37,39,40 because error mean square = 0.



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE
Pest Name	Common barnyar> Giant ragweed common lambsqu> Redroot pigweed			
Crop Code				
Crop Name				
Rating Date	Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	61 33	61 33	61 33	61 33
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	
10 Authority XL	4 oz/a		A	32
10 Class Act Ridion	0.6 qt/a		C	33
10 A21472C	56.5 oz/a		C	34
10 Roundup Power Max	28.4 oz/a		C	35
LSD P=.05	22.12	11.59	0.46	6.88
Standard Deviation	15.25	7.99	0.32	4.74
CV	20.06	10.1	0.35	5.31
Bartlett's X2	45.106	13.516	0.0	0.0
P(Bartlett's X2)	0.001*	0.036*	.	.
Replicate F	1.288	2.385	1.000	1.000
Replicate Prob(F)	0.2987	0.0913	0.4079	0.4079
Treatment F	22.835	67.700	39956.560	175.815
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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 7,14,16,26,27,30,37,39,40 because error mean square = 0.

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	POLPY	HIBTR	SIDSP	ABUTH					
Pest Name	annual smartwe>	Venice mallow	Prickly sida	velvetleaf					
Crop Code									
Crop Name									
Rating Date	Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1 1					
Days After First/Last Applic.	61 33	61 33	61 33	61 33					
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1					
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	36	37	38	39	40
1	UTC				0.0 c	0.0 b	0.0 c	0.0 b	
2	Boundary	1.8 pt/a		A	100.0 a	100.0 a	100.0 a	100.0 a	
2	Class Act Ridion	0.6 qt/a		C					
2	A21472C	56.5 oz/a		C					
2	Roundup Power Max	28.4 oz/a		C					
3	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	
3	Class Act Ridion	0.6 qt/a		C					
3	A21472C	56.5 oz/a		C					
3	Roundup Power Max	28.4 oz/a		C					
4	Prefix	32 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	
4	Class Act Ridion	0.6 qt/a		C					
4	A21472C	56.5 oz/a		C					
4	Roundup Power Max	28.4 oz/a		C					
5	Boundary	1.8 pt/a		A	100.0 a	100.0 a	99.3 a	100.0 a	
5	Class Act Ridion	0.6 qt/a		C					
5	A21472C	56.5 oz/a		C					
5	Flexstar	16 oz/a		C					
5	Roundup Power Max	28.4 oz/a		C					
6	Broadaxe XC	25 oz/a		A	100.0 a	100.0 a	100.0 a	100.0 a	
6	Class Act Ridion	0.6 qt/a		C					
6	A21472C	56.5 oz/a		C					
6	Flexstar	16 oz/a		C					
6	Roundup Power Max	28.4 oz/a		C					
7	Valor XLT @ 3 oz			A	100.0 a	100.0 a	100.0 a	100.0 a	
7	Classic	1.24 oz/a		A					
7	Valor SX	1.76 oz/a		A					
7	Class Act Ridion	0.6 qt/a		C					
7	Xtendimax	21.9 oz/a		C					
7	Roundup Power Max	28.4 oz/a		C					
8	Class Act Ridion	0.6 qt/a		B	100.0 a	100.0 a	97.5 ab	100.0 a	
8	A21472C	56.5 oz/a		B					
8	Roundup Power Max	28.4 oz/a		B					
9	Class Act Ridion	0.6 qt/a		B	95.0 b	100.0 a	95.0 b	100.0 a	
9	Xtendimax	21.9 oz/a		B					
9	Roundup Power Max	28.4 oz/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 7,14,16,26,27,30,37,39,40 because error mean square = 0.

# The Ohio State University

Pest Type		W Weed	W Weed	W Weed	W Weed
Pest Code		POLPY	HIBTR	SIDSP	ABUTH
Pest Name		annual smartwe>	Venice mallow	Prickly sida	velvetleaf
Crop Code					
Crop Name					
Rating Date		Jul-19-2017	Jul-19-2017	Jul-19-2017	Jul-19-2017
Rating Type		CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%
Number of Subsamples		1	1	1	1 1
Days After First/Last Applic.		61 33	61 33	61 33	61 33
Days After Emergence		51 DE-1	51 DE-1	51 DE-1	51 DE-1
Trt Treatment	Other Other	Appl			
No. Name	Rate Rate	Unit Code	36	37	38 39 40
10 Authority XL	4 oz/a	A	100.0 a	100.0 a	100.0 a 100.0 a
10 Class Act Ridion	0.6 qt/a	C			
10 A21472C	56.5 oz/a	C			
10 Roundup Power Max	28.4 oz/a	C			
LSD P=.05			4.59	.	3.44 .
Standard Deviation			3.16	0.00	2.37 0.00 .
CV			3.53	0.0	2.66 0.0 .
Bartlett's X2			0.0	0.0	4.312 0.0 .
P(Bartlett's X2)			.	.	0.116 . .
Replicate F			1.000	0.000	1.756 0.000
Replicate Prob(F)			0.4079	1.0000	0.1793 1.0000
Treatment F			396.556	0.000	699.129 0.000
Treatment Prob(F)			0.0001	1.0000	0.0001 1.0000

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 7,14,16,26,27,30,37,39,40 because error mean square = 0.

# The Ohio State University

## S-metolachlor/Dicamba premix university testing program in RR2X soybeans

Trial ID: 17 PRPOST1      Location: F-7 MIDDLE      Trial Year: 2017  
Protocol ID: 17 PRPOST1      Investigator: Dr. Mark M. Loux  
Project ID: HDC050A4-2017US      Study Director: Bryan Reeb  
Sponsor Contact: Dain Bruns, 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  
SIDSP, Sida spinosa, Prickly sida = US  
ABUTH, Abutilon theophrasti, velvetleaf = US  
POLPY, Persicaria pensylvanica, annual smartweed = US

### Crop Code

GLXMA, BSOY, Glycine max, Soybean = US

### Rating Type

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

### Rating Unit

% = percent