

The Ohio State University  
 Demonstrate Syngenta soybean herbicides for control of giant ragweed vs competitors in RR2 Xtend soybeans  
 Trial ID: 18 PRPOST2 Location: Trial Year: 2018  
 Protocol ID: 18 PRPOST2 Investigator: Dr. Mark M. Loux  
 Project ID: H052DCAD-2018US Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, Syngenta

### General Trial Information

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

**Discipline:** H herbicide  
**Trial Status:** E established  
**Initiation Date:** May-11-2018

### 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 °:** 39.85667 N  
**Longitude of LL Corner °:** 83.67016 W  
**Altitude of LL Corner, Unit:** 1076.00 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:** Pioneer 36T36X **BBCH Scale:** BSOY  
**Description:** Pioneer

**Planting Rate, Unit:** 164000 S/A  
**Depth, Unit:** 1.25 IN  
**Row Spacing, Unit:** 15 IN  
**Soil Temperature, Unit:** 60 F  
**Soil Moisture:** NORMAL normal, adequate  
**Seed Bed:** MEDIUM medium

**Planting Date:** May-11-2018  
**Planting Method:** PLANTD planted  
**Planting Equipment:** FE field equipment  
**Emergence Date:** May-17-2018

### Pest Description

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

**Pest 2 Type:** W **Code:** ECHCG *Echinochloa crus-galli*  
**Common Name:** Common barnyard grass

**Pest 3 Type:** W **Code:** AMBTR *Ambrosia trifida*  
**Common Name:** Giant ragweed

**Pest 4 Type:** W **Code:** CHEAL *Chenopodium album*  
**Common Name:** common lambsquarters

**Pest 5 Type:** W **Code:** HIBTR *Hibiscus trionum*  
**Common Name:** Venice mallow

**Pest 6 Type:** W **Code:** IPOHE *Ipomoea hederacea*  
**Common Name:** ivy-leaf morning glory

**Pest 7 Type:** W **Code:** AMARE *Amaranthus retroflexus*  
**Common Name:** Redroot pigweed

**Pest 8 Type:** W **Code:** ABUTH *Abutilon theophrasti*  
**Common Name:** velvetleaf

**Pest 9 Type:** W **Code:** SIDSP *Sida spinosa*  
**Common Name:** Prickly sida

**Pest10 Type:** W **Code:** POLPY *Persicaria pensylvanica*  
**Common Name:** annual smartweed

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT<sup>2</sup> **Treatments:** 12  
**Replications:** 4

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

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**No. Previous Crop Year**

1. Corn      2017

**Soil Description**

**Description Name:** BIG E  
**% Sand:** 45      **% OM:** 3.1      **Texture:** L      loam  
**% Silt:** 45      **pH:** 6.6      **Soil Name:** KOKOMO SILTY CLAY LOAM  
**% Clay:** 11      **CEC:** 15.2      **Fert. Level:** G      good  
**Soil Drainage:** G      good

**Application Description**

	<b>A</b>	<b>B</b>
<b>Application Date:</b>	May-11-2018	Jun-14-2018
<b>Appl. Start Time:</b>	7:40 AM	10:30 AM
<b>Appl. Stop Time:</b>	7:50 AM	10:45 AM
<b>Interval to Prev. Appl., Unit:</b>		34 DAYS
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	PRE	V5
<b>Application Placement:</b>	BROSOI	BROFOL
<b>Applied By:</b>	Bruce	Fisher,Reeb
<b>Air Temperature, Unit:</b>	56 F	71 F
<b>% Relative Humidity:</b>	90	55
<b>Wind Velocity, Unit:</b>	7 MPH	3 MPH
<b>Wind Direction:</b>	E	NE
<b>Dew Presence (Y/N):</b>	N no	Y yes
<b>Soil Temperature, Unit:</b>	60 F	72 F
<b>Soil Moisture:</b>	NORMAL	WET
<b>% Cloud Cover:</b>	20	0
<b>Next Moisture Occurred On:</b>	May-15-2018	Jun-19-2018
<b>Time to Next Moisture, Unit:</b>	4 DAY	5 DAY
<b>Moisture 1 Week after Appl.:</b>	0.43 IN	1.44 IN

**Crop Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>		BBCH
<b>Stage Majority, Percent:</b>		15 100
<b>Height, Unit:</b>		12 IN

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**Pest Stage At Each Application**

	<b>A</b>	<b>B</b>
<b>Pest 1 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>	23	100
<b>Height, Unit:</b>	12 IN	IN
<b>Height Minimum, Maximum:</b>	5 12	
<b>Density, Unit:</b>	57	PLA/m2
<b>Pest 2 Code, Type, Scale:</b>	ECHCG W	ECHCG W
<b>Stage Majority, Percent:</b>	23	100
<b>Height, Unit:</b>	12 IN	IN
<b>Height Minimum, Maximum:</b>	5 12	
<b>Density, Unit:</b>	80	PLA/m2
<b>Pest 3 Code, Type, Scale:</b>	AMBTR W	AMBTR W
<b>Stage Majority, Percent:</b>	19	100
<b>Height, Unit:</b>	15 IN	IN
<b>Height Minimum, Maximum:</b>	12 15	
<b>Density, Unit:</b>	17	PLA/m2
<b>Pest 4 Code, Type, Scale:</b>	CHEAL W	CHEAL W
<b>Stage Majority, Percent:</b>	19	100
<b>Height, Unit:</b>	11 IN	IN
<b>Height Minimum, Maximum:</b>	9 11	
<b>Density, Unit:</b>	17	PLA/m2
<b>Pest 5 Code, Type, Scale:</b>	HIBTR W	HIBTR W
<b>Stage Majority, Percent:</b>	15	100
<b>Height, Unit:</b>	6 IN	IN
<b>Height Minimum, Maximum:</b>	3 7	
<b>Density, Unit:</b>	6	PLA/m2
<b>Pest 6 Code, Type, Scale:</b>	IPOHE W	IPOHE W
<b>Stage Majority, Percent:</b>	15	100
<b>Height, Unit:</b>	5 IN	IN
<b>Height Minimum, Maximum:</b>	3 5	
<b>Density, Unit:</b>	4	PLA/m2
<b>Pest 7 Code, Type, Scale:</b>	AMARE W	AMARE W
<b>Stage Majority, Percent:</b>	19	100
<b>Height, Unit:</b>	12 IN	IN
<b>Density, Unit:</b>	4	PLA/m2
<b>Pest 8 Code, Type, Scale:</b>	ABUTH W	ABUTH W
<b>Stage Majority, Percent:</b>	16	100
<b>Height Minimum, Maximum:</b>	9 11	
<b>Density, Unit:</b>	1	PLA/m2
<b>Pest 9 Code, Type, Scale:</b>	SIDSP W	SIDSP W
<b>Density, Unit:</b>	4	PLA/m2
<b>Pest10 Code, Type, Scale:</b>	POLPY W	POLPY W
<b>Density, Unit:</b>	5	PLA/m2

**Application Equipment**

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

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Pest Type	O Other	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	AMARE	CHEAL
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed	common lambsqu>
Rating Date	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-14-2018
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	34 34	34 34	34 34	34 34	34 34
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
1	Boundary	1.5 pt/a		A	0.0 -	72.5 ab	78.8 a	12.5 bc	100.0 a	85.0 abc
1	Canopy	2.25 oz/a		A						
1	Tavium	56.5 oz/a		B						
1	Roundup Power Max	26 oz/a		B						
1	Class Act Ridion	19.2 oz/a		B						
2	Boundary	1.5 pt/a		A	0.0 -	78.8 ab	76.3 a	40.0 ab	100.0 a	87.5 abc
2	Xtendimax	22 oz/a		A						
2	Tavium	56.5 oz/a		B						
2	Roundup Power Max	26 oz/a		B						
2	Class Act Ridion	19.2 oz/a		B						
3	Boundary	1.5 pt/a		A	0.0 -	73.8 ab	73.8 a	45.0 ab	100.0 a	78.8 bc
3	Firstrate	0.5 oz/a		A						
3	Tavium	56.5 oz/a		B						
3	Roundup Power Max	26 oz/a		B						
3	Class Act Ridion	19.2 oz/a		B						
4	Boundary	1.5 pt/a		A	0.0 -	85.0 a	82.5 a	10.0 bc	100.0 a	83.8 abc
4	Canopy	2.25 oz/a		A						
4	Flexstar GT 3.5	3.5 pt/a		B						
4	MSO	0.6 qt/a		B						
4	N-pak ams	1.5 qt/a		B						
5	Prefix	2 pt/a		A	0.0 -	70.0 ab	70.0 a	10.0 bc	100.0 a	77.5 bc
5	Canopy	2.25 oz/a		A						
5	Tavium	56.5 oz/a		B						
5	Roundup Power Max	26 oz/a		B						
5	Class Act Ridion	19.2 oz/a		B						
6	Prefix	2 pt/a		A	0.0 -	73.8 ab	73.8 a	57.5 a	100.0 a	81.3 abc
6	Xtendimax	22 oz/a		A						
6	Tavium	56.5 oz/a		B						
6	Roundup Power Max	26 oz/a		B						
6	Class Act Ridion	19.2 oz/a		B						
7	Tavium	56.5 oz/a		A	0.0 -	58.8 ab	57.5 a	32.5 abc	100.0 a	85.0 abc
7	Tricor	6 oz/a		A						
7	Tavium	56.5 oz/a		B						
7	Roundup Power Max	26 oz/a		B						
7	Class Act Ridion	19.2 oz/a		B						
8	Sonic	5 oz/a		A	0.0 -	20.0 c	20.0 b	32.5 abc	97.5 a	93.8 ab
8	Tavium	56.5 oz/a		B						
8	Roundup Power Max	26 oz/a		B						
8	Class Act Ridion	19.2 oz/a		B						

Means followed by same letter or symbol do not significantly differ (P=.05, Student-Newman-Keuls)

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

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Pest Type	O Other	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	AMARE	CHEAL				
Pest Scientific Name	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Amaranthus ret>	Chenopodium al>				
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	Redroot pigweed	common	lambsqu>			
Rating Date	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-14-2018			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	34 34	34 34	34 34	34 34	34 34	34 34			
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1	34 DP-1			
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
9 Zidua Pro	6 oz/a		A	0.0 -	66.3 ab	66.3 a	12.5 bc	95.0 a	76.3 c
9 Tavium	56.5 oz/a		B						
9 Roundup Power Max	26 oz/a		B						
9 Class Act Ridion	19.2 oz/a		B						
10 Fierce XLT	4 oz/a		A	0.0 -	46.3 b	53.8 a	43.8 ab	100.0 a	97.5 a
10 Tavium	56.5 oz/a		B						
10 Roundup Power Max	26 oz/a		B						
10 Class Act Ridion	19.2 oz/a		B						
11				0.0 -	0.0 c	0.0 c	0.0 c	0.0 b	0.0
12 Broadaxe XC	25 oz/a		A	0.0 -	83.8 a	81.3 a	12.5 bc	100.0 a	97.5 a
12 Tricor	6 oz/a		A						
12 Tavium	56.5 oz/a		B						
12 Roundup Power Max	26 oz/a		B						
12 Class Act Ridion	19.2 oz/a		B						
LSD P=.05				.	20.61	18.95	21.24	3.09	10.58
Standard Deviation				0.00	14.33	13.17	14.76	2.15	7.33
CV				0.0	23.59	21.54	57.38	2.36	8.54
Levene's F				0.00	1.074	1.801	0.566	4.636	0.659
Levene's Prob(F)				.	0.408	0.09	0.843	0.001*	0.753
Skewness				.	-0.9034*	-1.0904*	0.3492	-3.0729*	-0.3103
Kurtosis				.	-0.2859	0.0925	-0.7993	7.8561*	-0.8038
Replicate F				0.000	3.378	3.277	5.700	1.658	7.661
Replicate Prob(F)				1.0000	0.0297	0.0331	0.0029	0.1951	0.0006
Treatment F				0.000	13.457	15.342	6.144	715.521	4.291
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	0.0009

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Pest Type	W Weed	W Weed	W Weed	W Weed	O Other	W Weed
Pest Code	IPOHE	HIBTR	SIDSP	ABUTH		SETFA
Pest Scientific Name	Ipomoea hederata>	Hibiscus trion>	Sida spinosa	Abutilon theop>		Setaria faberi
Pest Name	ivy-leaf morni>	Venice mallow	Prickly sida	velvetleaf		Giant foxtail
Rating Date	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-21-2018	Jun-21-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	34 34	34 34	34 34	34 34	41 7	41 7
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	41 DP-1	41 DP-1
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	35 DE-1	35 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
1	Boundary	1.5 pt/a		A	83.8 a	87.5 a	99.0 ab	96.3 a	2.2 b	100.0 -
1	Canopy	2.25 oz/a		A						
1	Tavium	56.5 oz/a		B						
1	Roundup Power Max	26 oz/a		B						
1	Class Act Ridion	19.2 oz/a		B						
2	Boundary	1.5 pt/a		A	81.3 a	96.3 a	98.7 ab	97.5 a	0.6 b	100.0 -
2	Xtendimax	22 oz/a		A						
2	Tavium	56.5 oz/a		B						
2	Roundup Power Max	26 oz/a		B						
2	Class Act Ridion	19.2 oz/a		B						
3	Boundary	1.5 pt/a		A	86.3 a	96.3 a	100.0 a	100.0 a	0.1 b	100.0 -
3	Firstrate	0.5 oz/a		A						
3	Tavium	56.5 oz/a		B						
3	Roundup Power Max	26 oz/a		B						
3	Class Act Ridion	19.2 oz/a		B						
4	Boundary	1.5 pt/a		A	87.5 a	100.0 a	99.7 ab	100.0 a	16.0 a	100.0 -
4	Canopy	2.25 oz/a		A						
4	Flexstar GT 3.5	3.5 pt/a		B						
4	MSO	0.6 qt/a		B						
4	N-pak ams	1.5 qt/a		B						
5	Prefix	2 pt/a		A	77.5 a	87.5 a	92.5 ab	95.0 a	1.3 b	100.0 -
5	Canopy	2.25 oz/a		A						
5	Tavium	56.5 oz/a		B						
5	Roundup Power Max	26 oz/a		B						
5	Class Act Ridion	19.2 oz/a		B						
6	Prefix	2 pt/a		A	86.3 a	86.3 a	88.6 b	91.3 a	1.5 b	100.0 -
6	Xtendimax	22 oz/a		A						
6	Tavium	56.5 oz/a		B						
6	Roundup Power Max	26 oz/a		B						
6	Class Act Ridion	19.2 oz/a		B						
7	Tavium	56.5 oz/a		A	83.8 a	88.8 a	91.7 ab	88.8 a	0.1 b	100.0 -
7	Tricor	6 oz/a		A						
7	Tavium	56.5 oz/a		B						
7	Roundup Power Max	26 oz/a		B						
7	Class Act Ridion	19.2 oz/a		B						
8	Sonic	5 oz/a		A	96.3 a	97.5 a	99.7 ab	100.0 a	0.6 b	100.0 -
8	Tavium	56.5 oz/a		B						
8	Roundup Power Max	26 oz/a		B						
8	Class Act Ridion	19.2 oz/a		B						

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Pest Code	IPOHE	HIBTR	SIDSP	ABUTH		SETFA				
Pest Scientific Name	Ipomoea hederata>	Hibiscus trion>	Sida spinosa	Abutilon theop>		Setaria faberi				
Pest Name	ivy-leaf morni>	Venice mallow	Prickly sida	velvetleaf		Giant foxtail				
Rating Date	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-14-2018	Jun-21-2018	Jun-21-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYNEC	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	34 34	34 34	34 34	34 34	41 7	41 7				
Plant-Eval Interval	34 DP-1	34 DP-1	34 DP-1	34 DP-1	41 DP-1	41 DP-1				
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	35 DE-1	35 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
9	Zidua Pro	6 oz/a		A	82.5 a	92.5 a	96.8 ab	100.0 a	0.1 b	100.0 -
9	Tavium	56.5 oz/a		B						
9	Roundup Power Max	26 oz/a		B						
9	Class Act Ridion	19.2 oz/a		B						
10	Fierce XLT	4 oz/a		A	97.5 a	100.0 a	100.0 a	100.0 a	0.2 b	100.0 -
10	Tavium	56.5 oz/a		B						
10	Roundup Power Max	26 oz/a		B						
10	Class Act Ridion	19.2 oz/a		B						
11					0.0 b	0.0 b	0.0 c	0.0 b	0.0 b	0.0 -
12	Broadaxe XC	25 oz/a		A	80.0 a	93.8 a	99.7 ab	96.3 a	0.2 b	100.0 -
12	Tricor	6 oz/a		A						
12	Tavium	56.5 oz/a		B						
12	Roundup Power Max	26 oz/a		B						
12	Class Act Ridion	19.2 oz/a		B						
LSD P=.05					16.12	10.97	3.69 - 9.11	8.26	1.77 - 6.76	.
Standard Deviation					11.21	7.62	7.69t	5.74	4.09t	0.00
CV					14.27	8.91	10.19t	6.47	74.41t	0.0
Levene's F					0.632	1.561	1.078	2.333	0.621	0.00
Levene's Prob(F)					0.789	0.153	0.405	0.027*	0.799	.
Skewness					-2.1177*	-2.5918*	-2.3212*	-2.8175*	1.4381*	-3.1133*
Kurtosis					3.9756*	5.7733*	4.8042*	6.7135*	2.0233*	8.0253*
Replicate F					3.899	5.316	4.753	5.690	1.782	0.000
Replicate Prob(F)					0.0173	0.0042	0.0073	0.0030	0.1697	1.0000
Treatment F					20.623	51.588	41.133	96.483	9.287	0.000
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	1.0000

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The Ohio State University  
 Demonstrate Syngenta soybean herbicides for control of giant ragweed vs competitors in RR2 Xtend soybeans  
 Trial ID: 18 PRPOST2 Location: Trial Year: 2018  
 Protocol ID: 18 PRPOST2 Investigator: Dr. Mark M. Loux  
 Project ID: H052DCAD-2018US Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	ABUTH
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Abutilon theop>
Pest Name	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed	velvetleaf
Rating Date	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	41 7	41 7	41 7	41 7	41 7
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*
1	Boundary	1.5 pt/a		A	96.3 -	95.0 abc	100.0 a	100.0 -	100.0 -
1	Canopy	2.25 oz/a		A					
1	Tavium	56.5 oz/a		B					
1	Roundup Power Max	26 oz/a		B					
1	Class Act Ridion	19.2 oz/a		B					
2	Boundary	1.5 pt/a		A	94.5 -	100.0 a	100.0 a	100.0 -	100.0 -
2	Xtendimax	22 oz/a		A					
2	Tavium	56.5 oz/a		B					
2	Roundup Power Max	26 oz/a		B					
2	Class Act Ridion	19.2 oz/a		B					
3	Boundary	1.5 pt/a		A	97.0 -	95.0 abc	100.0 a	100.0 -	100.0 -
3	Firstrate	0.5 oz/a		A					
3	Tavium	56.5 oz/a		B					
3	Roundup Power Max	26 oz/a		B					
3	Class Act Ridion	19.2 oz/a		B					
4	Boundary	1.5 pt/a		A	82.5 -	80.0 d	100.0 a	100.0 -	100.0 -
4	Canopy	2.25 oz/a		A					
4	Flexstar GT 3.5	3.5 pt/a		B					
4	MSO	0.6 qt/a		B					
4	N-pak ams	1.5 qt/a		B					
5	Prefix	2 pt/a		A	90.0 -	91.3 bc	100.0 a	100.0 -	100.0 -
5	Canopy	2.25 oz/a		A					
5	Tavium	56.5 oz/a		B					
5	Roundup Power Max	26 oz/a		B					
5	Class Act Ridion	19.2 oz/a		B					
6	Prefix	2 pt/a		A	94.8 -	98.8 ab	100.0 a	100.0 -	100.0 -
6	Xtendimax	22 oz/a		A					
6	Tavium	56.5 oz/a		B					
6	Roundup Power Max	26 oz/a		B					
6	Class Act Ridion	19.2 oz/a		B					
7	Tavium	56.5 oz/a		A	81.3 -	97.5 abc	99.3 a	100.0 -	100.0 -
7	Tricor	6 oz/a		A					
7	Tavium	56.5 oz/a		B					
7	Roundup Power Max	26 oz/a		B					
7	Class Act Ridion	19.2 oz/a		B					
8	Sonic	5 oz/a		A	77.5 -	90.0 c	100.0 a	100.0 -	100.0 -
8	Tavium	56.5 oz/a		B					
8	Roundup Power Max	26 oz/a		B					
8	Class Act Ridion	19.2 oz/a		B					

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The Ohio State University

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Trial ID: 18 PRPOST2 Location: Trial Year: 2018  
 Protocol ID: 18 PRPOST2 Investigator: Dr. Mark M. Loux  
 Project ID: H052DCAD-2018US Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	ABUTH				
Pest Scientific Name	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>	Amaranthus ret>	Abutilon theop>				
Pest Name	Common barnyar>	Giant ragweed	common lambsqu>	Redroot pigweed	velvetleaf				
Rating Date	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Days After First/Last Applic.	41 7	41 7	41 7	41 7	41 7				
Plant-Eval Interval	41 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1				
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*
9	Zidua Pro	6 oz/a		A	92.0 -	90.0 c	100.0 a	100.0 -	100.0 -
9	Tavium	56.5 oz/a		B					
9	Roundup Power Max	26 oz/a		B					
9	Class Act Ridion	19.2 oz/a		B					
10	Fierce XLT	4 oz/a		A	82.5 -	95.0 abc	100.0 a	100.0 -	100.0 -
10	Tavium	56.5 oz/a		B					
10	Roundup Power Max	26 oz/a		B					
10	Class Act Ridion	19.2 oz/a		B					
11					0.0	0.0 e	0.0 b	0.0 -	0.0 -
12	Broadaxe XC	25 oz/a		A	96.5 -	90.0 c	100.0 a	100.0 -	100.0 -
12	Tricor	6 oz/a		A					
12	Tavium	56.5 oz/a		B					
12	Roundup Power Max	26 oz/a		B					
12	Class Act Ridion	19.2 oz/a		B					
LSD P=.05					11.87	5.05	0.62	.	.
Standard Deviation					8.22	3.51	0.43	0.00	0.00
CV					9.18	4.12	0.47	0.0	0.0
Levene's F					0.652	4.612	1.00	0.00	0.00
Levene's Prob(F)					0.759	0.001*	0.465	.	.
Skewness					-0.5008	-2.8363*	-3.1119*	-3.1133*	-3.1133*
Kurtosis					-1.1014	6.9324*	8.02*	8.0253*	8.0253*
Replicate F					1.889	1.523	1.000	0.000	0.000
Replicate Prob(F)					0.1527	0.2268	0.4051	1.0000	1.0000
Treatment F					3.079	243.215	17754.537	0.000	0.000
Treatment Prob(F)					0.0083	0.0001	0.0001	1.0000	1.0000

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Project ID: H052DCAD-2018US Study Director: Bryan Reeb

Sponsor Contact: Dain Bruns, Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	HIBTR	SIDSP	SETFA	ECHCG	AMBTR	CHEAL
Pest Scientific Name	Hibiscus trion>	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>
Pest Name	Venice mallow	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>
Rating Date	Jun-21-2018	Jun-21-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018
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 7	41 7	59 25	59 25	59 25	59 25
Plant-Eval Interval	41 DP-1	41 DP-1	59 DP-1	59 DP-1	59 DP-1	59 DP-1
Days After Emergence	35 DE-1	35 DE-1	53 DE-1	53 DE-1	53 DE-1	53 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	18*	19*	20*	21*	22*	23*
1	Boundary	1.5 pt/a		A	99.5 a	97.5 a	100.0 -	100.0 -	100.0 a	100.0 -
1	Canopy	2.25 oz/a		A						
1	Tavium	56.5 oz/a		B						
1	Roundup Power Max	26 oz/a		B						
1	Class Act Ridion	19.2 oz/a		B						
2	Boundary	1.5 pt/a		A	100.0 a	100.0 a	100.0 -	100.0 -	100.0 a	100.0 -
2	Xtendimax	22 oz/a		A						
2	Tavium	56.5 oz/a		B						
2	Roundup Power Max	26 oz/a		B						
2	Class Act Ridion	19.2 oz/a		B						
3	Boundary	1.5 pt/a		A	100.0 a	100.0 a	100.0 -	100.0 -	100.0 a	100.0 -
3	Firstrate	0.5 oz/a		A						
3	Tavium	56.5 oz/a		B						
3	Roundup Power Max	26 oz/a		B						
3	Class Act Ridion	19.2 oz/a		B						
4	Boundary	1.5 pt/a		A	99.3 a	98.8 a	100.0 -	100.0 -	91.8 b	100.0 -
4	Canopy	2.25 oz/a		A						
4	Flexstar GT 3.5	3.5 pt/a		B						
4	MSO	0.6 qt/a		B						
4	N-pak ams	1.5 qt/a		B						
5	Prefix	2 pt/a		A	100.0 a	97.5 a	100.0 -	100.0 -	100.0 a	100.0 -
5	Canopy	2.25 oz/a		A						
5	Tavium	56.5 oz/a		B						
5	Roundup Power Max	26 oz/a		B						
5	Class Act Ridion	19.2 oz/a		B						
6	Prefix	2 pt/a		A	100.0 a	98.8 a	100.0 -	100.0 -	100.0 a	100.0 -
6	Xtendimax	22 oz/a		A						
6	Tavium	56.5 oz/a		B						
6	Roundup Power Max	26 oz/a		B						
6	Class Act Ridion	19.2 oz/a		B						
7	Tavium	56.5 oz/a		A	100.0 a	97.5 a	100.0 -	100.0 -	100.0 a	100.0 -
7	Tricor	6 oz/a		A						
7	Tavium	56.5 oz/a		B						
7	Roundup Power Max	26 oz/a		B						
7	Class Act Ridion	19.2 oz/a		B						
8	Sonic	5 oz/a		A	100.0 a	100.0 a	100.0 -	100.0 -	100.0 a	100.0 -
8	Tavium	56.5 oz/a		B						
8	Roundup Power Max	26 oz/a		B						
8	Class Act Ridion	19.2 oz/a		B						

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Trial ID: 18 PRPOST2 Location: Trial Year: 2018

Protocol ID: 18 PRPOST2 Investigator: Dr. Mark M. Loux

Project ID: H052DCAD-2018US Study Director: Bryan Reeb

Sponsor Contact: Dain Bruns, Syngenta

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	HIBTR	SIDSP	SETFA	ECHCG	AMBTR	CHEAL			
Pest Scientific Name	Hibiscus trion>	Sida spinosa	Setaria faberi	Echinochloa cr>	Ambrosia trifi>	Chenopodium al>			
Pest Name	Venice mallow	Prickly sida	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>			
Rating Date	Jun-21-2018	Jun-21-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018	Jul-9-2018			
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 7	41 7	59 25	59 25	59 25	59 25			
Plant-Eval Interval	41 DP-1	41 DP-1	59 DP-1	59 DP-1	59 DP-1	59 DP-1			
Days After Emergence	35 DE-1	35 DE-1	53 DE-1	53 DE-1	53 DE-1	53 DE-1			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	18*	19*	20*	21*	22*	23*
9 Zidua Pro	6 oz/a		A	100.0 a	95.0 a	100.0 -	100.0 -	100.0 a	100.0 -
9 Tavium	56.5 oz/a		B						
9 Roundup Power Max	26 oz/a		B						
9 Class Act Ridion	19.2 oz/a		B						
10 Fierce XLT	4 oz/a		A	100.0 a	100.0 a	100.0 -	100.0 -	100.0 a	100.0 -
10 Tavium	56.5 oz/a		B						
10 Roundup Power Max	26 oz/a		B						
10 Class Act Ridion	19.2 oz/a		B						
11				0.0 b	0.0 b	0.0 -	0.0 -	0.0 c	0.0 -
12 Broadaxe XC	25 oz/a		A	100.0 a	97.5 a	100.0 -	100.0 -	100.0 a	100.0 -
12 Tricor	6 oz/a		A						
12 Tavium	56.5 oz/a		B						
12 Roundup Power Max	26 oz/a		B						
12 Class Act Ridion	19.2 oz/a		B						
LSD P=.05				0.76	5.00	.	.	3.69	.
Standard Deviation				0.53	3.47	0.00	0.00	2.56	0.00
CV				0.58	3.85	0.0	0.0	2.82	0.0
Levene's F				0.916	1.071	0.00	0.00	8.191	0.00
Levene's Prob(F)				0.536	0.41	.	.	0.001*	.
Skewness				-3.1114*	-3.0336*	-3.1133*	-3.1133*	-3.0475*	-3.1133*
Kurtosis				8.0178*	7.6978*	8.0253*	8.0253*	7.7335*	8.0253*
Replicate F				0.673	1.094	0.000	0.000	1.000	0.000
Replicate Prob(F)				0.5744	0.3653	1.0000	1.0000	0.4051	1.0000
Treatment F				11946.471	268.476	0.000	0.000	502.711	0.000
Treatment Prob(F)				0.0001	0.0001	1.0000	1.0000	0.0001	1.0000

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 Trial ID: 18 PRPOST2      Location:      Trial Year: 2018  
 Protocol ID: 18 PRPOST2      Investigator: Dr. Mark M. Loux  
 Project ID: H052DCAD-2018US      Study Director: Bryan Reeb  
 Sponsor Contact: Dain Bruns, Syngenta

Pest Type	W Weed	W Weed
Pest Code	AMARE	ABUTH
Pest Scientific Name	Amaranthus ret>	Abutilon theop>
Pest Name	Redroot pigweed	velvetleaf
Rating Date	Jul-9-2018	Jul-9-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	59 25	59 25
Plant-Eval Interval	59 DP-1	59 DP-1
Days After Emergence	53 DE-1	53 DE-1

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	24*	25*	26
1	Boundary	1.5 pt/a		A	100.0 -	100.0 -	
1	Canopy	2.25 oz/a		A			
1	Tavium	56.5 oz/a		B			
1	Roundup Power Max	26 oz/a		B			
1	Class Act Ridion	19.2 oz/a		B			
2	Boundary	1.5 pt/a		A	100.0 -	100.0 -	
2	Xtendimax	22 oz/a		A			
2	Tavium	56.5 oz/a		B			
2	Roundup Power Max	26 oz/a		B			
2	Class Act Ridion	19.2 oz/a		B			
3	Boundary	1.5 pt/a		A	100.0 -	100.0 -	
3	Firstrate	0.5 oz/a		A			
3	Tavium	56.5 oz/a		B			
3	Roundup Power Max	26 oz/a		B			
3	Class Act Ridion	19.2 oz/a		B			
4	Boundary	1.5 pt/a		A	100.0 -	100.0 -	
4	Canopy	2.25 oz/a		A			
4	Flexstar GT 3.5	3.5 pt/a		B			
4	MSO	0.6 qt/a		B			
4	N-pak ams	1.5 qt/a		B			
5	Prefix	2 pt/a		A	100.0 -	100.0 -	
5	Canopy	2.25 oz/a		A			
5	Tavium	56.5 oz/a		B			
5	Roundup Power Max	26 oz/a		B			
5	Class Act Ridion	19.2 oz/a		B			
6	Prefix	2 pt/a		A	100.0 -	100.0 -	
6	Xtendimax	22 oz/a		A			
6	Tavium	56.5 oz/a		B			
6	Roundup Power Max	26 oz/a		B			
6	Class Act Ridion	19.2 oz/a		B			
7	Tavium	56.5 oz/a		A	100.0 -	100.0 -	
7	Tricor	6 oz/a		A			
7	Tavium	56.5 oz/a		B			
7	Roundup Power Max	26 oz/a		B			
7	Class Act Ridion	19.2 oz/a		B			
8	Sonic	5 oz/a		A	100.0 -	100.0 -	
8	Tavium	56.5 oz/a		B			
8	Roundup Power Max	26 oz/a		B			
8	Class Act Ridion	19.2 oz/a		B			

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 Sponsor Contact: Dain Bruns, Syngenta

Pest Type	W Weed	W Weed
Pest Code	AMARE	ABUTH
Pest Scientific Name	Amaranthus ret>	Abutilon theop>
Pest Name	Redroot pigweed	velvetleaf
Rating Date	Jul-9-2018	Jul-9-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	59 25	59 25
Plant-Eval Interval	59 DP-1	59 DP-1
Days After Emergence	53 DE-1	53 DE-1

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	24*	25*	26
9	Zidua Pro	6 oz/a		A	100.0 -	100.0 -	
9	Tavium	56.5 oz/a		B			
9	Roundup Power Max	26 oz/a		B			
9	Class Act Ridion	19.2 oz/a		B			
10	Fierce XLT	4 oz/a		A	100.0 -	100.0 -	
10	Tavium	56.5 oz/a		B			
10	Roundup Power Max	26 oz/a		B			
10	Class Act Ridion	19.2 oz/a		B			
11					0.0 -	0.0 -	
12	Broadaxe XC	25 oz/a		A	100.0 -	100.0 -	
12	Tricor	6 oz/a		A			
12	Tavium	56.5 oz/a		B			
12	Roundup Power Max	26 oz/a		B			
12	Class Act Ridion	19.2 oz/a		B			
LSD P=.05					.	.	.
Standard Deviation					0.00	0.00	.
CV					0.0	0.0	.
Levene's F					0.00	0.00	.
Levene's Prob(F)					.	.	.
Skewness					-3.1133*	-3.1133*	.
Kurtosis					8.0253*	8.0253*	.
Replicate F					0.000	0.000	
Replicate Prob(F)					1.0000	1.0000	
Treatment F					0.000	0.000	
Treatment Prob(F)					1.0000	1.0000	

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 Protocol ID: 18 PRPOST2                  Investigator: Dr. Mark M. Loux  
 Project ID: H052DCAD-2018US              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

AMARE, Amaranthus retroflexus, Redroot pigweed = US

CHEAL, Chenopodium album, common lambsquarters = US

IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US

HIBTR, Hibiscus trionum, Venice mallow = US

SIDSP, Sida spinosa, Prickly sida = US

ABUTH, Abutilon theophrasti, velvetleaf = US

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

PHYNEC = phytotoxicity - necrosis /burn

Rating Unit

% = percent

Plant-Eval Interval

34 DP-1 = 1 GLXMA May-11-2018

41 DP-1 = 1 GLXMA May-11-2018

59 DP-1 = 1 GLXMA May-11-2018