

The Ohio State University

Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

General Trial Information

Study Director: Anthony Dobbels
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 °: 39.85942 N
Longitude of LL Corner °: 83.67477 W
Altitude of LL Corner, Unit: 1088.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop 1: ZEAMX Zea mays
Variety: P1197AM
Description: Pioneer RR/LL 111

Crop Description

Corn

Planting Date: Apr-29-2018
Planting Method: PLANT
Planting Equipment: FPP finger pickup planter
Emergence Date: May-10-2018

Planting Rate, Unit: 32097 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Rows per Plot: 4
Soil Temperature, Unit: 58 F
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: CLODDY cloddy

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:** CHEAL Chenopodium album
Common Name: common lambsquarters

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:** IPOHE Ipomoea hederacea
Common Name: ivy-leaf morning glory

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT2 **Treatments:** 18
Replications: 3

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

No. Previous Crop Year
 1. Soybean 2017

Soil Description

Description Name: G-6
% Sand: 33 **% OM:** 2.2 **Texture:** SICL silty clay loam
% Silt: 53 **pH:** 5.9 **Soil Name:** Kokomo
% Clay: 15 **CEC:** 14.8 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

	A	B	C
Application Date:	Apr-30-2018	May-16-2018	May-29-2018
Appl. Start Time:	1:00 PM	11:00 AM	12:00 PM
Appl. Stop Time:	1:15 PM	11:10 AM	12:15 PM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	POST
Application Placement:	BROSOI	BROFOL	BROFOL
Applied By:	Ackley	Dobbels	Ackley,Lamb
Air Temperature, Unit:	64 F	66 F	81 F
% Relative Humidity:	25	77	63
Wind Velocity, Unit:	4 MPH	3 MPH	10 MPH
Wind Direction:	SW	NE	SE
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	60 F	66 F	80 F
Soil Moisture:	SLIWET	SLIWET	DRY
% Cloud Cover:	20	100	40
Next Moisture Occurred On:	May-3-2018	May-17-2018	May-31-2018
Time to Next Moisture, Unit:	3 DAY	1 DAY	2 DAY
Moisture 1 Week after Appl.:	0.71 IN	1.41 IN	0.55 IN

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:			BBCH		BBCH	
Stage Majority, Percent:			12		16	60
Stage Minimum, Percent:					15	40
Stage Maximum, Percent:					16	60
Height, Unit:			5 IN		20 IN	
Height Minimum, Maximum:			4 7		18 26	

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:			11	100	16	100
Diameter, Unit:			1	IN		
Height, Unit:			1	IN	6	IN
Height Minimum, Maximum:					0.5	10
Density, Unit:					295	m2
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			12	100	18	100
Height, Unit:			1.5	IN	7	IN
Height Minimum, Maximum:					1	14
Density, Unit:					17	m2
Pest 3 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:			11	100	16	100
Diameter, Unit:			1	IN		
Height, Unit:			1	IN	3	IN
Height Minimum, Maximum:					1	7.5
Density, Unit:					97	m2
Pest 4 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:			12	100		
Diameter, Unit:			1	IN		
Height, Unit:			1	IN		
Density, Unit:					13	m2
Pest 5 Code, Type, Scale:	ABUTH	W	ABUTH	W	ABUTH	W
Stage Majority, Percent:			11	100	16	100
Diameter, Unit:			2	IN		
Height, Unit:			1	IN	3	IN
Height Minimum, Maximum:					1	6
Density, Unit:					4	m2
Pest 6 Code, Type, Scale:	IPOHE	W	IPOHE	W	IPOHE	W
Stage Majority, Percent:			10	100	16	100
Diameter, Unit:			3	IN		
Height, Unit:			1.5	IN	4.5	IN
Height Minimum, Maximum:					1	8

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Application Equipment

	A	B	C
Appl. Equipment:	6 foot TTI	6' AI XR	6 foot AIXR
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	42 PSI	46 PSI	42 PSI
Nozzle Type:	TTI	AI XR	AIXR
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	6.67 FT	6 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH
Carrier:	WATER	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA
Mix Size, Unit:	1 L	2 L	1 L
Propellant:	COMCO2	CO2	COMCO2

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	AMARE
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Redroot pigweed

Crop Code	May-29-2018	May-29-2018	May-29-2018	May-29-2018	May-29-2018	May-29-2018
Crop Name						
Rating Date	May-29-2018	May-29-2018	May-29-2018	May-29-2018	May-29-2018	May-29-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing	AT POST	AT POST	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	29 13	29 13	29 13	29 13	29 13	29 13
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1
ARM Action Codes	AA	AA	ER3	AA	AA	
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	1*	2*	3*	4*	5*	6*
1	Resicore	1.25 qt/a		A	93 ab	95 ab	73 ab	100 a	99 a	100 a
1	Atrazine	1 qt/a		A						
2	Cinch ATZ	2 qt/a		A	93 ab	96 ab	75 ab	100 a	100 a	100 a
2	Instigate	5.25 oz/a		A						
2	rimsulfuron	0.875 oz/a		A						
2	mesotrione	4.38 oz/a		A						
3	Surestart II	3 pt/a		A	99 a	99 ab	78 ab	98 ab	93 ab	100 a
3	Atrazine	2 pt/a		A						
4	Resicore	1.25 qt/a		A	97 ab	99 ab	75 ab	100 a	99 a	100 a
4	Atrazine	1 qt/a		A						
4	Resicore	1.25 qt/a		C						
4	Durango DMA	1 qt/a		C						
4	N Pak AMS	2.5 % v/v		C						
5	Acuron	3 qt/a		A	91 ab	86 ab	90 ab	98 ab	98 a	90 a
6	Acuron	1.5 qt/a		A	86 ab	88 ab	78 ab	99 ab	100 a	100 a
6	Halex GT	3.6 pt/a		C						
6	NIS	0.25 % v/v		C						
6	N Pak AMS	2.5 % v/v		C						
7	Acuron	1.5 qt/a		A	92 ab	95 ab	53 b	93 abc	98 a	100 a
7	Acuron	1.5 qt/a		C						
7	Roundup PowerMax	26 oz/a		C						
7	N Pak AMS	2.5 % v/v		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	AMARE				
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Redroot pigweed				
Crop Code										
Crop Name										
Rating Date	May-29-2018	May-29-2018	May-29-2018	May-29-2018	May-29-2018	May-29-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Rating Timing	AT POST	AT POST	AT POST	AT POST	AT POST	AT POST				
Days After First/Last Applic.	29 13	29 13	29 13	29 13	29 13	29 13				
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C				
Days After Emergence	19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1	19 DE-1				
ARM Action Codes	AA	AA	ER3	AA	AA					
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
8	Anthem Maxx	4.3 oz/a		A	97 ab	99 ab	75 ab	99 a	99 a	100 a
8	Atrazine	32 oz/a		A						
8	Callisto	3 oz/a		C						
8	Atrazine	16 oz/a		C						
8	Roundup PowerMax	32 oz/a		C						
8	COC	1 % v/v		C						
8	N Pak AMS	2.5 % v/v		C						
9	Anthem Maxx	4.3 oz/a		A	79 ab	86 ab	70 ab	99 ab	93 ab	100 a
9	Atrazine	32 oz/a		A						
9	Impact	0.75 oz/a		C						
9	Atrazine	16 oz/a		C						
9	Roundup PowerMax	32 oz/a		C						
9	COC	1 % v/v		C						
9	N Pak AMS	2.5 % v/v		C						
10	Anthem Maxx	4.3 oz/a		B	100 a	100 a	96 a	100 a	100 a	100 a
10	Atrazine	32 oz/a		B						
10	Callisto	3 oz/a		B						
10	Roundup PowerMax	32 oz/a		B						
10	COC	1 % v/v		B						
10	N Pak AMS	2.5 % v/v		B						
11	Coyote	64 oz/a		A	95 ab	97 ab	85 ab	100 a	100 a	100 a
11	Atrazine	48 oz/a		A						
11	Interline	29 oz/a		C						
11	N Pak AMS	2.5 % v/v		C						
12	Coyote	64 oz/a		A	92 ab	93 ab	78 ab	100 a	100 a	100 a
12	Tricor	8 oz/a		A						
12	Interline	29 oz/a		C						
12	N Pak AMS	2.5 % v/v		C						
13	Dual II Magnum	1.67 pt/a		A	91 ab	92 ab	68 ab	67 c	67 b	90 a
13	Shieldex	1 oz/a		C						
13	MSO	0.5 % v/v		C						
13	N Pak AMS	2.5 % v/v		C						
14	Dual II Magnum	1.67 pt/a		A	95 ab	95 ab	75 ab	90 abc	98 a	98 a
14	Shieldex	1.35 oz/a		C						
14	MSO	0.5 % v/v		C						
14	N Pak AMS	2.5 % v/v		C						
15	Dual II Magnum	1.67 pt/a		A	100 a	100 a	65 ab	72 bc	72 b	100 a
15	Shieldex	1 oz/a		C						
15	Atrazine	1 pt/a		C						
15	MSO	0.5 % v/v		C						
15	N Pak AMS	2.5 % v/v		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	IPOHE	SETFA	ECHCG	AMBTR	CHEAL					
Pest Name	ivy-leaf morni>	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>					
Crop Code	ZEAMX									
Crop Name	Corn									
Rating Date	May-29-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018					
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Rating Timing	AT POST 7 DAPOST									
Days After First/Last Applic.	29 13	36 7	36 7	36 7	36 7					
Trt-Eval Interval	0 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C					
Days After Emergence	19 DE-1	26 DE-1	26 DE-1	26 DE-1	26 DE-1					
ARM Action Codes	AA									
Number of Decimals	0									
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
1	Resicore	1.25 qt/a		A	95 a	0.0 -	71.7 b	75.0 a	73.3 abc	96.3 ab
1	Atrazine	1 qt/a		A						
2	Cinch ATZ	2 qt/a		A	99 a	0.0 -	76.7 ab	76.7 a	71.7 bc	98.9 ab
2	Instigate	5.25 oz/a		A						
2	rimsulfuron	0.875 oz/a		A						
2	mesotrione	4.38 oz/a		A						
3	Surestart II	3 pt/a		A	99 a	0.0 -	88.3 ab	88.3 a	73.3 abc	99.8 a
3	Atrazine	2 pt/a		A						
4	Resicore	1.25 qt/a		A	99 a	0.0 -	93.3 ab	100.0 a	93.3 ab	97.6 ab
4	Atrazine	1 qt/a		A						
4	Resicore	1.25 qt/a		C						
4	Durango DMA	1 qt/a		C						
4	N Pak AMS	2.5 % v/v		C						
5	Acuron	3 qt/a		A	98 a	0.0 -	85.0 ab	79.7 a	91.3 abc	97.6 ab
6	Acuron	1.5 qt/a		A	100 a	0.0 -	92.3 ab	86.7 a	94.0 a	96.8 ab
6	Halex GT	3.6 pt/a		C						
6	NIS	0.25 % v/v		C						
6	N Pak AMS	2.5 % v/v		C						
7	Acuron	1.5 qt/a		A	96 a	0.0 -	85.7 ab	84.3 a	82.3 abc	98.8 ab
7	Acuron	1.5 qt/a		C						
7	Roundup PowerMax	26 oz/a		C						
7	N Pak AMS	2.5 % v/v		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	IPOHE	SETFA	ECHCG	AMBTR	CHEAL					
Pest Name	ivy-leaf morni>	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>					
Crop Code	ZEAMX									
Crop Name	Corn									
Rating Date	May-29-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018					
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Rating Timing	AT POST 7 DAPOST									
Days After First/Last Applic.	29 13	36 7	36 7	36 7	36 7					
Trt-Eval Interval	0 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C					
Days After Emergence	19 DE-1	26 DE-1	26 DE-1	26 DE-1	26 DE-1					
ARM Action Codes	AA									
Number of Decimals	0									
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
8	Anthem Maxx	4.3 oz/a		A	98 a	0.0 -	99.3 a	99.0 a	93.0 ab	100.0 a
8	Atrazine	32 oz/a		A						
8	Callisto	3 oz/a		C						
8	Atrazine	16 oz/a		C						
8	Roundup PowerMax	32 oz/a		C						
8	COC	1 % v/v		C						
8	N Pak AMS	2.5 % v/v		C						
9	Anthem Maxx	4.3 oz/a		A	100 a	0.0 -	91.0 ab	91.7 a	81.7 abc	100.0 a
9	Atrazine	32 oz/a		A						
9	Impact	0.75 oz/a		C						
9	Atrazine	16 oz/a		C						
9	Roundup PowerMax	32 oz/a		C						
9	COC	1 % v/v		C						
9	N Pak AMS	2.5 % v/v		C						
10	Anthem Maxx	4.3 oz/a		B	100 a	0.0 -	93.3 ab	93.3 a	95.0 a	100.0 a
10	Atrazine	32 oz/a		B						
10	Callisto	3 oz/a		B						
10	Roundup PowerMax	32 oz/a		B						
10	COC	1 % v/v		B						
10	N Pak AMS	2.5 % v/v		B						
11	Coyote	64 oz/a		A	99 a	0.0 -	93.0 ab	92.3 a	89.3 abc	100.0 a
11	Atrazine	48 oz/a		A						
11	Interline	29 oz/a		C						
11	N Pak AMS	2.5 % v/v		C						
12	Coyote	64 oz/a		A	98 a	0.0 -	91.0 ab	90.7 a	95.0 a	99.9 a
12	Tricor	8 oz/a		A						
12	Interline	29 oz/a		C						
12	N Pak AMS	2.5 % v/v		C						
13	Dual II Magnum	1.67 pt/a		A	93 a	0.0 -	89.3 ab	88.0 a	70.0 c	70.0 b
13	Shieldex	1 oz/a		C						
13	MSO	0.5 % v/v		C						
13	N Pak AMS	2.5 % v/v		C						
14	Dual II Magnum	1.67 pt/a		A	100 a	0.0 -	100.0 a	86.0 a	78.3 abc	81.6 ab
14	Shieldex	1.35 oz/a		C						
14	MSO	0.5 % v/v		C						
14	N Pak AMS	2.5 % v/v		C						
15	Dual II Magnum	1.67 pt/a		A	100 a	0.0 -	99.7 a	100.0 a	73.3 abc	87.4 ab
15	Shieldex	1 oz/a		C						
15	Atrazine	1 pt/a		C						
15	MSO	0.5 % v/v		C						
15	N Pak AMS	2.5 % v/v		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed					
Pest Code	IPOHE	SETFA	ECHCG	AMBTR	CHEAL					
Pest Name	ivy-leaf mornis>	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>					
Crop Code	ZEAMX									
Crop Name	Corn									
Rating Date	May-29-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-5-2018					
Rating Type	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%	%					
Number of Subsamples	1	1	1	1	1					
Rating Timing	AT POST 7 DAPOST									
Days After First/Last Applic.	29 13	36 7	36 7	36 7	36 7					
Trt-Eval Interval	0 DA-C	7 DA-C	7 DA-C	7 DA-C	7 DA-C					
Days After Emergence	19 DE-1	26 DE-1	26 DE-1	26 DE-1	26 DE-1					
ARM Action Codes	AA									
Number of Decimals	0									
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
16	Dual II Magnum	1.67 pt/a		A	100 a	0.0 -	98.3 ab	93.3 a	85.0 abc	93.9 ab
16	Shieldex	1.35 oz/a		C						
16	Atrazine	1 pt/a		C						
16	MSO	0.5 % v/v		C						
16	N Pak AMS	2.5 % v/v		C						
17	Verdict	10 oz/a		A	89 a	0.0 -	76.7 ab	76.7 a	81.7 abc	96.3 ab
17	Armezon Pro	16 oz/a		C						
17	Atrazine	1 qt/a		C						
17	NIS	0.25 % v/v		C						
17	N Pak AMS	2.5 % v/v		C						
18	UTC				0 b	0.0 -	0.0 c	0.0 b	0.0 d	0.0 c
LSD P=.05					10.5 - 12.1	.	15.22	16.32	12.56	8.54 - 22.20
Standard Deviation					12.3t	0.00	9.17	9.83	7.57	10.24t
CV					15.61t	0.0	10.83	11.79	9.59	13.47t
Levene's F					0.575	0.00	0.42	0.381	0.523	0.599
Levene's Prob(F)					0.888	.	0.971	0.982	0.923	0.87
Skewness					-2.7093*	.	-2.567*	-2.4432*	-2.4618*	-2.2647*
Kurtosis					7.0046*	.	7.1086*	6.6269*	7.1694*	5.4314*
Replicate F					1.090	0.000	6.065	7.457	3.390	1.323
Replicate Prob(F)					0.3478	1.0000	0.0056	0.0021	0.0455	0.2796
Treatment F					8.202	0.000	18.300	15.308	24.420	12.756
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	ABUTH	AMARE	IPOHE	SETFA						
Pest Name	velvetleaf	Redroot pigweed	ivy-leaf morri>	Giant foxtail						
Crop Code				ZEAMX						
Crop Name				Corn						
Rating Date	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-12-2018						
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC						
Rating Unit	%	%	%	PHYSTU						
Number of Subsamples	1	1	1	1						
Rating Timing										
Days After First/Last Applic.	36 7	36 7	36 7	43 14						
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	14 DA-C						
Days After Emergence	26 DE-1	26 DE-1	26 DE-1	33 DE-1						
ARM Action Codes			AA	AL						
Number of Decimals				0						
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	13*	14*	15*	16*	17*	18*
1	Resicore	1.25 qt/a	A		98.3 a	93.3 a	91.1 ab	0.0 -	0.0 -	80 c
1	Atrazine	1 qt/a	A							
2	Cinch ATZ	2 qt/a	A		100.0 a	100.0 a	93.0 ab	0.0 -	0.0 -	82 bc
2	Instigate	5.25 oz/a	A							
2	rimsulfuron	0.875 oz/a	A							
2	mesotrione	4.38 oz/a	A							
3	Surestart II	3 pt/a	A		85.0 a	100.0 a	96.7 ab	0.0 -	0.0 -	91 abc
3	Atrazine	2 pt/a	A							
4	Resicore	1.25 qt/a	A		100.0 a	100.0 a	96.5 ab	0.3 -	0.0 -	100 a
4	Atrazine	1 qt/a	A							
4	Resicore	1.25 qt/a	C							
4	Durango DMA	1 qt/a	C							
4	N Pak AMS	2.5 % v/v	C							
5	Acuron	3 qt/a	A		93.3 a	90.0 a	99.7 ab	0.0 -	0.0 -	92 abc
6	Acuron	1.5 qt/a	A		100.0 a	91.7 a	97.6 ab	0.3 -	0.0 -	100 a
6	Halex GT	3.6 pt/a	C							
6	NIS	0.25 % v/v	C							
6	N Pak AMS	2.5 % v/v	C							
7	Acuron	1.5 qt/a	A		100.0 a	100.0 a	92.0 ab	0.0 -	0.0 -	99 ab
7	Acuron	1.5 qt/a	C							
7	Roundup PowerMax	26 oz/a	C							
7	N Pak AMS	2.5 % v/v	C							

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed		W Weed
Pest Code	ABUTH	AMARE	IPOHE		SETFA
Pest Name	velvetleaf	Redroot pigweed	ivy-leaf morri>		Giant foxtail
Crop Code				ZEAMX	ZEAMX
Crop Name				Corn	Corn
Rating Date	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-12-2018	Jun-12-2018
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC	PHYSTU
Rating Unit	%	%	%		
Number of Subsamples	1	1	1	1	1
Rating Timing					
Days After First/Last Applic.	36 7	36 7	36 7	43 14	43 14
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	14 DA-C	14 DA-C
Days After Emergence	26 DE-1	26 DE-1	26 DE-1	33 DE-1	33 DE-1
ARM Action Codes			AA		AL
Number of Decimals					AA
					0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	13*	14*	15*	16*	17*	18*
8	Anthem Maxx	4.3 oz/a	A		100.0 a	100.0 a	100.0 a	0.0 -	0.0 -	100 a
8	Atrazine	32 oz/a	A							
8	Callisto	3 oz/a	C							
8	Atrazine	16 oz/a	C							
8	Roundup PowerMax	32 oz/a	C							
8	COC	1 % v/v	C							
8	N Pak AMS	2.5 % v/v	C							
9	Anthem Maxx	4.3 oz/a	A		100.0 a	100.0 a	97.0 ab	0.0 -	0.6 -	98 abc
9	Atrazine	32 oz/a	A							
9	Impact	0.75 oz/a	C							
9	Atrazine	16 oz/a	C							
9	Roundup PowerMax	32 oz/a	C							
9	COC	1 % v/v	C							
9	N Pak AMS	2.5 % v/v	C							
10	Anthem Maxx	4.3 oz/a	B		100.0 a	93.3 a	99.9 ab	0.0 -	0.0 -	100 a
10	Atrazine	32 oz/a	B							
10	Callisto	3 oz/a	B							
10	Roundup PowerMax	32 oz/a	B							
10	COC	1 % v/v	B							
10	N Pak AMS	2.5 % v/v	B							
11	Coyote	64 oz/a	A		100.0 a	100.0 a	94.6 ab	0.3 -	0.0 -	99 abc
11	Atrazine	48 oz/a	A							
11	Interline	29 oz/a	C							
11	N Pak AMS	2.5 % v/v	C							
12	Coyote	64 oz/a	A		100.0 a	100.0 a	98.9 ab	0.0 -	0.0 -	95 abc
12	Tricor	8 oz/a	A							
12	Interline	29 oz/a	C							
12	N Pak AMS	2.5 % v/v	C							
13	Dual II Magnum	1.67 pt/a	A		73.3 b	90.0 a	73.5 b	0.0 -	0.0 -	92 abc
13	Shieldex	1 oz/a	C							
13	MSO	0.5 % v/v	C							
13	N Pak AMS	2.5 % v/v	C							
14	Dual II Magnum	1.67 pt/a	A		93.3 a	100.0 a	94.8 ab	0.0 -	0.0 -	100 a
14	Shieldex	1.35 oz/a	C							
14	MSO	0.5 % v/v	C							
14	N Pak AMS	2.5 % v/v	C							
15	Dual II Magnum	1.67 pt/a	A		93.3 a	100.0 a	81.7 ab	0.0 -	0.3 -	100 a
15	Shieldex	1 oz/a	C							
15	Atrazine	1 pt/a	C							
15	MSO	0.5 % v/v	C							
15	N Pak AMS	2.5 % v/v	C							

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed		W Weed				
Pest Code	ABUTH	AMARE	IPOHE		SETFA				
Pest Name	velvetleaf	Redroot pigweed	ivy-leaf morri>		Giant foxtail				
Crop Code				ZEAMX	ZEAMX				
Crop Name				Corn	Corn				
Rating Date	Jun-5-2018	Jun-5-2018	Jun-5-2018	Jun-12-2018	Jun-12-2018				
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC	PHYSTU				
Rating Unit	%	%	%						
Number of Subsamples	1	1	1	1	1				
Rating Timing									
Days After First/Last Applic.	36 7	36 7	36 7	43 14	43 14				
Trt-Eval Interval	7 DA-C	7 DA-C	7 DA-C	14 DA-C	14 DA-C				
Days After Emergence	26 DE-1	26 DE-1	26 DE-1	33 DE-1	33 DE-1				
ARM Action Codes			AA		AL				
Number of Decimals					AA				
					0				
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*	18*
16 Dual II Magnum	1.67 pt/a		A	90.0 a	96.7 a	98.5 ab	0.0 -	0.3 -	100 a
16 Shieldex	1.35 oz/a		C						
16 Atrazine	1 pt/a		C						
16 MSO	0.5 % v/v		C						
16 N Pak AMS	2.5 % v/v		C						
17 Verdict	10 oz/a		A	93.3 a	98.3 a	97.6 ab	0.7 -	0.0 -	92 abc
17 Armezon Pro	16 oz/a		C						
17 Atrazine	1 qt/a		C						
17 NIS	0.25 % v/v		C						
17 N Pak AMS	2.5 % v/v		C						
18 UTC				0.0 c	0.0 b	0.0 c	0.0 -	0.0 -	0 d
LSD P=.05				11.43	12.46	8.03 - 20.22	0.60	0.36 - 0.37	5.3 - 14.9
Standard Deviation				6.89	7.51	9.92t	0.36	0.07t	8.0t
CV				7.66	8.17	13.42t	393.72	305.46t	10.51t
Levene's F				0.727	0.715	0.576	0.849	0.882	0.748
Levene's Prob(F)				0.756	0.768	0.887	0.632	0.597	0.735
Skewness				-3.1804*	-3.4302*	-2.2239*	4.1349*	3.3464*	-2.4045*
Kurtosis				9.945*	11.1802*	5.524*	18.0379*	9.5508*	6.074*
Replicate F				0.380	2.818	6.469	0.557	2.532	7.899
Replicate Prob(F)				0.6865	0.0737	0.0042	0.5779	0.0944	0.0015
Treatment F				35.009	28.742	12.181	0.828	1.957	20.666
Treatment Prob(F)				0.0001	0.0001	0.0001	0.6529	0.0469	0.0001

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	AMBTR	CHEAL	ABUTH	AMARE	IPOHE			
Pest Name	Common barnyar>	Giant common lambsqu>	ragweed	velvetleaf	Redroot pigweed	ivy-leaf morni>			
Crop Code									
Crop Name									
Rating Date	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Rating Timing									
Days After First/Last Applic.	43 14	43 14	43 14	43 14	43 14	43 14			
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C			
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1			
ARM Action Codes	AA		ER1	AA		AA			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	19*	20*	21*	22*	23*	24*
1 Resicore	1.25 qt/a		A	82 b	72 d	100 a	95 a	100 a	100 a
1 Atrazine	1 qt/a		A						
2 Cinch ATZ	2 qt/a		A	79 b	67 d	85 a	100 a	100 a	99 a
2 Instigate	5.25 oz/a		A						
2 rimsulfuron	0.875 oz/a		A						
2 mesotrione	4.38 oz/a		A						
3 Surestart II	3 pt/a		A	92 ab	68 d	100 a	87 a	100 a	100 a
3 Atrazine	2 pt/a		A						
4 Resicore	1.25 qt/a		A	100 a	98 a	100 a	100 a	100 a	100 a
4 Atrazine	1 qt/a		A						
4 Resicore	1.25 qt/a		C						
4 Durango DMA	1 qt/a		C						
4 N Pak AMS	2.5 % v/v		C						
5 Acuron	3 qt/a		A	93 ab	81 c	90 a	96 a	93 a	98 a
6 Acuron	1.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
6 Halex GT	3.6 pt/a		C						
6 NIS	0.25 % v/v		C						
6 N Pak AMS	2.5 % v/v		C						
7 Acuron	1.5 qt/a		A	100 a	99 a	100 a	100 a	100 a	100 a
7 Acuron	1.5 qt/a		C						
7 Roundup PowerMax	26 oz/a		C						
7 N Pak AMS	2.5 % v/v		C						

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ECHCG	AMBTR	CHEAL	ABUTH	AMARE	IPOHE			
Pest Name	Common barnyar>	Giant common lambsqu>	ragweed	velvetleaf	Redroot pigweed	ivy-leaf morni>			
Crop Code									
Crop Name									
Rating Date	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018	Jun-12-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Rating Timing									
Days After First/Last Applic.	43 14	43 14	43 14	43 14	43 14	43 14			
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C	14 DA-C			
Days After Emergence	33 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1	33 DE-1			
ARM Action Codes	AA		ER1	AA		AA			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Other	Other	Appl	19*	20*	21*	22*	23*	24*
No. Name	Rate	Rate	Unit Code						
8 Anthem Maxx	4.3 oz/a		A	100 a	98 a	100 a	100 a	100 a	100 a
8 Atrazine	32 oz/a		A						
8 Callisto	3 oz/a		C						
8 Atrazine	16 oz/a		C						
8 Roundup PowerMax	32 oz/a		C						
8 COC	1 % v/v		C						
8 N Pak AMS	2.5 % v/v		C						
9 Anthem Maxx	4.3 oz/a		A	99 a	96 a	100 a	100 a	100 a	100 a
9 Atrazine	32 oz/a		A						
9 Impact	0.75 oz/a		C						
9 Atrazine	16 oz/a		C						
9 Roundup PowerMax	32 oz/a		C						
9 COC	1 % v/v		C						
9 N Pak AMS	2.5 % v/v		C						
10 Anthem Maxx	4.3 oz/a		B	100 a	93 ab	100 a	100 a	100 a	100 a
10 Atrazine	32 oz/a		B						
10 Callisto	3 oz/a		B						
10 Roundup PowerMax	32 oz/a		B						
10 COC	1 % v/v		B						
10 N Pak AMS	2.5 % v/v		B						
11 Coyote	64 oz/a		A	99 a	99 a	98 a	100 a	100 a	100 a
11 Atrazine	48 oz/a		A						
11 Interline	29 oz/a		C						
11 N Pak AMS	2.5 % v/v		C						
12 Coyote	64 oz/a		A	96 ab	98 a	99 a	100 a	100 a	100 a
12 Tricor	8 oz/a		A						
12 Interline	29 oz/a		C						
12 N Pak AMS	2.5 % v/v		C						
13 Dual II Magnum	1.67 pt/a		A	92 ab	84 bc	75 a	100 a	100 a	94 a
13 Shieldex	1 oz/a		C						
13 MSO	0.5 % v/v		C						
13 N Pak AMS	2.5 % v/v		C						
14 Dual II Magnum	1.67 pt/a		A	100 a	91 abc	92 a	100 a	100 a	95 a
14 Shieldex	1.35 oz/a		C						
14 MSO	0.5 % v/v		C						
14 N Pak AMS	2.5 % v/v		C						
15 Dual II Magnum	1.67 pt/a		A	100 a	97 a	98 a	100 a	100 a	99 a
15 Shieldex	1 oz/a		C						
15 Atrazine	1 pt/a		C						
15 MSO	0.5 % v/v		C						
15 N Pak AMS	2.5 % v/v		C						

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	AMARE			
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Redroot pigweed			
Crop Code									
Crop Name									
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Rating Timing									
Days After First/Last Applic.	57 28	57 28	57 28	57 28	57 28	57 28			
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C			
Days After Emergence	47 DE-1	47 DE-1	47 DE-1	47 DE-1	47 DE-1	47 DE-1			
ARM Action Codes	AA	AA	AA	AA	AA	AA			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Other	Other	Appl	25*	26*	27*	28*	29*	30*
No. Name	Rate	Rate	Unit Code						
1 Resicore	1.25 qt/a		A	81 b	81 b	65 c	100 a	99 a	100 a
1 Atrazine	1 qt/a		A						
2 Cinch ATZ	2 qt/a		A	77 b	79 b	65 c	98 a	100 a	100 a
2 Instigate	5.25 oz/a		A						
2 rimsulfuron	0.875 oz/a		A						
2 mesotrione	4.38 oz/a		A						
3 Surestart II	3 pt/a		A	99 a	99 a	58 c	99 a	97 a	100 a
3 Atrazine	2 pt/a		A						
4 Resicore	1.25 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
4 Atrazine	1 qt/a		A						
4 Resicore	1.25 qt/a		C						
4 Durango DMA	1 qt/a		C						
4 N Pak AMS	2.5 % v/v		C						
5 Acuron	3 qt/a		A	97 a	98 a	87 b	99 a	99 a	99 a
6 Acuron	1.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
6 Halex GT	3.6 pt/a		C						
6 NIS	0.25 % v/v		C						
6 N Pak AMS	2.5 % v/v		C						
7 Acuron	1.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
7 Acuron	1.5 qt/a		C						
7 Roundup PowerMax	26 oz/a		C						
7 N Pak AMS	2.5 % v/v		C						

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	AMARE
Pest Name	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Redroot pigweed
Crop Code						
Crop Name						
Rating Date	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018	Jun-26-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	57 28	57 28	57 28	57 28	57 28	57 28
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
Days After Emergence	47 DE-1	47 DE-1	47 DE-1	47 DE-1	47 DE-1	47 DE-1
ARM Action Codes	AA	AA	AA		AA	
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	25*	26*	27*	28*	29*	30*
8	Anthem Maxx	4.3 oz/a		A	100 a	100 a	99 a	100 a	100 a	100 a
8	Atrazine	32 oz/a		A						
8	Callisto	3 oz/a		C						
8	Atrazine	16 oz/a		C						
8	Roundup PowerMax	32 oz/a		C						
8	COC	1 % v/v		C						
8	N Pak AMS	2.5 % v/v		C						
9	Anthem Maxx	4.3 oz/a		A	99 a	99 a	99 a	100 a	100 a	100 a
9	Atrazine	32 oz/a		A						
9	Impact	0.75 oz/a		C						
9	Atrazine	16 oz/a		C						
9	Roundup PowerMax	32 oz/a		C						
9	COC	1 % v/v		C						
9	N Pak AMS	2.5 % v/v		C						
10	Anthem Maxx	4.3 oz/a		B	100 a	100 a	98 a	100 a	100 a	100 a
10	Atrazine	32 oz/a		B						
10	Callisto	3 oz/a		B						
10	Roundup PowerMax	32 oz/a		B						
10	COC	1 % v/v		B						
10	N Pak AMS	2.5 % v/v		B						
11	Coyote	64 oz/a		A	100 a	100 a	99 a	100 a	100 a	100 a
11	Atrazine	48 oz/a		A						
11	Interline	29 oz/a		C						
11	N Pak AMS	2.5 % v/v		C						
12	Coyote	64 oz/a		A	98 a	99 a	100 a	100 a	100 a	100 a
12	Tricor	8 oz/a		A						
12	Interline	29 oz/a		C						
12	N Pak AMS	2.5 % v/v		C						
13	Dual II Magnum	1.67 pt/a		A	97 a	99 a	97 a	98 a	100 a	100 a
13	Shieldex	1 oz/a		C						
13	MSO	0.5 % v/v		C						
13	N Pak AMS	2.5 % v/v		C						
14	Dual II Magnum	1.67 pt/a		A	100 a	100 a	98 a	99 a	100 a	100 a
14	Shieldex	1.35 oz/a		C						
14	MSO	0.5 % v/v		C						
14	N Pak AMS	2.5 % v/v		C						
15	Dual II Magnum	1.67 pt/a		A	100 a	100 a	99 a	100 a	100 a	100 a
15	Shieldex	1 oz/a		C						
15	Atrazine	1 pt/a		C						
15	MSO	0.5 % v/v		C						
15	N Pak AMS	2.5 % v/v		C						

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	IPOHE	SETFA	ECHCG	AMBTR	CHEAL	ABUTH				
Pest Name	ivy-leaf mornig> Giant foxtail Common barnyar> Giant ragweed common lambsqu> velvetleaf									
Crop Code										
Crop Name										
Rating Date	Jun-26-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Rating Timing										
Days After First/Last Applic.	57 28	71 42	71 42	71 42	71 42	71 42				
Trt-Eval Interval	28 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C				
Days After Emergence	47 DE-1	61 DE-1	61 DE-1	61 DE-1	61 DE-1	61 DE-1				
ARM Action Codes		AA	AA	AA	ET14	AA				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	31*	32*	33*	34*	35*	36*
1	Resicore	1.25 qt/a		A	100 a	83 b	99 a	73 c	100 a	100 a
1	Atrazine	1 qt/a		A						
2	Cinch ATZ	2 qt/a		A	99 a	96 a	97 a	75 c	98 a	100 a
2	Instigate	5.25 oz/a		A						
2	rimsulfuron	0.875 oz/a		A						
2	mesotrione	4.38 oz/a		A						
3	Surestart II	3 pt/a		A	100 a	100 a	100 a	72 c	99 a	93 b
3	Atrazine	2 pt/a		A						
4	Resicore	1.25 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
4	Atrazine	1 qt/a		A						
4	Resicore	1.25 qt/a		C						
4	Durango DMA	1 qt/a		C						
4	N Pak AMS	2.5 % v/v		C						
5	Acuron	3 qt/a		A	99 a	99 a	95 a	91 b	99 a	100 a
6	Acuron	1.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
6	Halex GT	3.6 pt/a		C						
6	NIS	0.25 % v/v		C						
6	N Pak AMS	2.5 % v/v		C						
7	Acuron	1.5 qt/a		A	99 a	100 a	100 a	100 a	100 a	100 a
7	Acuron	1.5 qt/a		C						
7	Roundup PowerMax	26 oz/a		C						
7	N Pak AMS	2.5 % v/v		C						

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	SETFA	ECHCG	AMBTR	CHEAL	ABUTH
Pest Name	ivy-leaf morni>	Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf
Crop Code						
Crop Name						
Rating Date	Jun-26-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Rating Timing						
Days After First/Last Applic.	57 28	71 42	71 42	71 42	71 42	71 42
Trt-Eval Interval	28 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C
Days After Emergence	47 DE-1	61 DE-1	61 DE-1	61 DE-1	61 DE-1	61 DE-1
ARM Action Codes		AA	AA	AA	ET14	AA
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	31*	32*	33*	34*	35*	36*
8	Anthem Maxx	4.3 oz/a		A	100 a	100 a	100 a	100 a	100 a	100 a
8	Atrazine	32 oz/a		A						
8	Callisto	3 oz/a		C						
8	Atrazine	16 oz/a		C						
8	Roundup PowerMax	32 oz/a		C						
8	COC	1 % v/v		C						
8	N Pak AMS	2.5 % v/v		C						
9	Anthem Maxx	4.3 oz/a		A	100 a	100 a	100 a	100 a	100 a	100 a
9	Atrazine	32 oz/a		A						
9	Impact	0.75 oz/a		C						
9	Atrazine	16 oz/a		C						
9	Roundup PowerMax	32 oz/a		C						
9	COC	1 % v/v		C						
9	N Pak AMS	2.5 % v/v		C						
10	Anthem Maxx	4.3 oz/a		B	100 a	100 a	100 a	98 a	100 a	100 a
10	Atrazine	32 oz/a		B						
10	Callisto	3 oz/a		B						
10	Roundup PowerMax	32 oz/a		B						
10	COC	1 % v/v		B						
10	N Pak AMS	2.5 % v/v		B						
11	Coyote	64 oz/a		A	100 a	100 a	99 a	100 a	99 a	100 a
11	Atrazine	48 oz/a		A						
11	Interline	29 oz/a		C						
11	N Pak AMS	2.5 % v/v		C						
12	Coyote	64 oz/a		A	100 a	99 a	99 a	100 a	100 a	100 a
12	Tricor	8 oz/a		A						
12	Interline	29 oz/a		C						
12	N Pak AMS	2.5 % v/v		C						
13	Dual II Magnum	1.67 pt/a		A	98 a	100 a	100 a	97 a	97 a	99 a
13	Shieldex	1 oz/a		C						
13	MSO	0.5 % v/v		C						
13	N Pak AMS	2.5 % v/v		C						
14	Dual II Magnum	1.67 pt/a		A	98 a	100 a	100 a	100 a	66	100 a
14	Shieldex	1.35 oz/a		C						
14	MSO	0.5 % v/v		C						
14	N Pak AMS	2.5 % v/v		C						
15	Dual II Magnum	1.67 pt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
15	Shieldex	1 oz/a		C						
15	Atrazine	1 pt/a		C						
15	MSO	0.5 % v/v		C						
15	N Pak AMS	2.5 % v/v		C						

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	IPOHE	SETFA	ECHCG	AMBTR	CHEAL	ABUTH			
Pest Name	ivy-leaf morri> Giant foxtail		Common barnyar>		Giant ragweed common lambsqu>				
Crop Code									
Crop Name									
Rating Date	Jun-26-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018	Jul-10-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Rating Timing									
Days After First/Last Applic.	57 28	71 42	71 42	71 42	71 42	71 42			
Trt-Eval Interval	28 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C			
Days After Emergence	47 DE-1	61 DE-1	61 DE-1	61 DE-1	61 DE-1	61 DE-1			
ARM Action Codes		AA	AA	AA	ET14	AA			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	31*	32*	33*	34*	35*	36*
16 Dual II Magnum	1.67 pt/a		A	99 a	100 a	100 a	100 a	100 a	100 a
16 Shieldex	1.35 oz/a		C						
16 Atrazine	1 pt/a		C						
16 MSO	0.5 % v/v		C						
16 N Pak AMS	2.5 % v/v		C						
17 Verdict	10 oz/a		A	100 a	99 a	100 a	100 a	100 a	100 a
17 Armezon Pro	16 oz/a		C						
17 Atrazine	1 qt/a		C						
17 NIS	0.25 % v/v		C						
17 N Pak AMS	2.5 % v/v		C						
18 UTC				0 b	0 c	0 b	0 d	0 b	0 c
LSD P=.05		1.4		2.5 - 10.0		2.0 - 4.6	1.5 - 10.3	1.7	0.6 - 3.6
Standard Deviation		0.8		5.4t		4.9t	4.2t	1.0	2.7t
CV		0.87		6.7t		6.01t	5.55t	1.1	3.26t
Levene's F		0.669		1.168		0.983	0.86	0.688	1.544
Levene's Prob(F)		0.811		0.336		0.496	0.62	0.786	0.134
Skewness		-3.9809*		-3.3044*		-3.5242*	-2.4814*	-3.849*	-3.7301*
Kurtosis		14.4135*		10.5264*		11.8419*	6.3425*	13.382*	12.9331*
Replicate F		1.089		1.315		3.063	6.048	0.961	3.625
Replicate Prob(F)		0.3481		0.2817		0.0598	0.0057	0.3934	0.0374
Treatment F		2485.005		45.177		53.868	80.558	1646.732	181.733
Treatment Prob(F)		0.0001		0.0001		0.0001	0.0001	0.0001	0.0001

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	AMARE	IPOHE
Pest Name	Redroot pigweed ivy-leaf morni>	
Crop Code		
Crop Name		
Rating Date	Jul-10-2018	Jul-10-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1
Rating Timing		
Days After First/Last Applic.	71 42	71 42
Trt-Eval Interval	42 DA-C	42 DA-C
Days After Emergence	61 DE-1	61 DE-1
ARM Action Codes		ET13
Number of Decimals	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	37*	38*	39
1	Resicore	1.25 qt/a		A	100 a	100 a	
1	Atrazine	1 qt/a		A			
2	Cinch ATZ	2 qt/a		A	100 a	100 a	
2	Instigate	5.25 oz/a		A			
2	rimsulfuron	0.875 oz/a		A			
2	mesotrione	4.38 oz/a		A			
3	Surestart II	3 pt/a		A	100 a	99 ab	
3	Atrazine	2 pt/a		A			
4	Resicore	1.25 qt/a		A	100 a	100 a	
4	Atrazine	1 qt/a		A			
4	Resicore	1.25 qt/a		C			
4	Durango DMA	1 qt/a		C			
4	N Pak AMS	2.5 % v/v		C			
5	Acuron	3 qt/a		A	99 a	100 a	
6	Acuron	1.5 qt/a		A	100 a	100 a	
6	Halex GT	3.6 pt/a		C			
6	NIS	0.25 % v/v		C			
6	N Pak AMS	2.5 % v/v		C			
7	Acuron	1.5 qt/a		A	100 a	100 a	
7	Acuron	1.5 qt/a		C			
7	Roundup PowerMax	26 oz/a		C			
7	N Pak AMS	2.5 % v/v		C			

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	AMARE	IPOHE
Pest Name	Redroot pigweed ivy-leaf morni>	
Crop Code		
Crop Name		
Rating Date	Jul-10-2018	Jul-10-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1 1
Rating Timing		
Days After First/Last Applic.	71 42	71 42
Trt-Eval Interval	42 DA-C	42 DA-C
Days After Emergence	61 DE-1	61 DE-1
ARM Action Codes		ET13
Number of Decimals	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	37*	38*	39
8	Anthem Maxx	4.3 oz/a		A	100 a	100 a	
8	Atrazine	32 oz/a		A			
8	Callisto	3 oz/a		C			
8	Atrazine	16 oz/a		C			
8	Roundup PowerMax	32 oz/a		C			
8	COC	1 % v/v		C			
8	N Pak AMS	2.5 % v/v		C			
9	Anthem Maxx	4.3 oz/a		A	100 a	100 a	
9	Atrazine	32 oz/a		A			
9	Impact	0.75 oz/a		C			
9	Atrazine	16 oz/a		C			
9	Roundup PowerMax	32 oz/a		C			
9	COC	1 % v/v		C			
9	N Pak AMS	2.5 % v/v		C			
10	Anthem Maxx	4.3 oz/a		B	100 a	100 a	
10	Atrazine	32 oz/a		B			
10	Callisto	3 oz/a		B			
10	Roundup PowerMax	32 oz/a		B			
10	COC	1 % v/v		B			
10	N Pak AMS	2.5 % v/v		B			
11	Coyote	64 oz/a		A	100 a	99 a	
11	Atrazine	48 oz/a		A			
11	Interline	29 oz/a		C			
11	N Pak AMS	2.5 % v/v		C			
12	Coyote	64 oz/a		A	100 a	100 a	
12	Tricor	8 oz/a		A			
12	Interline	29 oz/a		C			
12	N Pak AMS	2.5 % v/v		C			
13	Dual II Magnum	1.67 pt/a		A	100 a	69	
13	Shieldex	1 oz/a		C			
13	MSO	0.5 % v/v		C			
13	N Pak AMS	2.5 % v/v		C			
14	Dual II Magnum	1.67 pt/a		A	100 a	97 b	
14	Shieldex	1.35 oz/a		C			
14	MSO	0.5 % v/v		C			
14	N Pak AMS	2.5 % v/v		C			
15	Dual II Magnum	1.67 pt/a		A	100 a	98 ab	
15	Shieldex	1 oz/a		C			
15	Atrazine	1 pt/a		C			
15	MSO	0.5 % v/v		C			
15	N Pak AMS	2.5 % v/v		C			

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type		W Weed	W Weed	
Pest Code		AMARE	IPOHE	
Pest Name		Redroot pigweed ivy-leaf morni>		
Crop Code				
Crop Name				
Rating Date		Jul-10-2018	Jul-10-2018	
Rating Type		CONTRO	CONTRO	
Rating Unit		%	%	
Number of Subsamples		1	1	1
Rating Timing				
Days After First/Last Applic.		71 42	71 42	
Trt-Eval Interval		42 DA-C	42 DA-C	
Days After Emergence		61 DE-1	61 DE-1	
ARM Action Codes			ET13	
Number of Decimals		0	0	
Trt Treatment	Other	Other	Appl	
No. Name	Rate	Rate	Unit Code	
				37* 38* 39
16 Dual II Magnum	1.67 pt/a		A	100 a 100 a
16 Shieldex	1.35 oz/a		C	
16 Atrazine	1 pt/a		C	
16 MSO	0.5 % v/v		C	
16 N Pak AMS	2.5 % v/v		C	
17 Verdict	10 oz/a		A	100 a 100 a
17 Armezon Pro	16 oz/a		C	
17 Atrazine	1 qt/a		C	
17 NIS	0.25 % v/v		C	
17 N Pak AMS	2.5 % v/v		C	
18 UTC				0 b 0 c
LSD P=.05				0.5 1.5 .
Standard Deviation				0.3 0.9 .
CV				0.29 0.96 .
Levene's F				1.00 1.102 .
Levene's Prob(F)				0.48 0.391 .
Skewness				-3.9914* -3.8517* .
Kurtosis				14.4689* 13.3961* .
Replicate F				1.000 0.171
Replicate Prob(F)				0.3784 0.8438
Treatment F				22483.355 2173.732
Treatment Prob(F)				0.0001 0.0001

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Corn Showcase Treatments

Trial ID: 18CORNSHOWA Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: 18CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact:

Pest Type

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
 ABUTH, Abutilon theophrasti, velvetleaf = US
 AMARE, Amaranthus retroflexus, Redroot pigweed = US
 IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

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

Rating Unit

% = percent

ARM Action Codes

AA = Automatic arcsine square root % transformation
 ER3 = Excluded replicate 3
 AL = Automatic log transformation of X+1
 ER1 = Excluded replicate 1
 ET14 = Excluded treatment 14
 ET13 = Excluded treatment 13