

The Ohio State University

Corn Showcase Treatments

Trial ID: 17CORNSHOW Location: Trial Year: 2017
 Protocol ID: 17CORNSHOW Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: Syngenta, DOW, BASF

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 °: 39.85729 N
Longitude of LL Corner °: 83.67008 W
Altitude of LL Corner, Unit: 1092.00 FT
Conducted Under GLP: No
Conducted Under GEP: No
No.

Contacts

Study Director: Anthony Dobbels
Investigator: Dr. Mark M. Loux
Organization: The Ohio State University
Address: 2021 Coffey Road
City+State/Prov: Columbus, Ohio
Postal Code: 43210
Country: USA United States

Cooperator/Landowner

Other Contacts

Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: SC10AQ96
Description: Seed Consultants RR/LL

Planting Rate, Unit: 32097 S/A
Depth, Unit: 1.75 IN
Row Spacing, Unit: 30 IN
Planting Date: 4-25-2017
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-10-2017

Soil Temperature, Unit: 56 F
Soil Moisture: DRY dry
Seed Bed: MEDIUM medium

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:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 14
Replications: 4
No. Previous Crop Year
 1. Soybean 2016
Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOBL Randomized Complete Block (RCB)

Maintenance

No.

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Soil Description

Description Name: Big E
% OM: 2.8 **Texture:** SICL silty clay loam
pH: 5.9 **Soil Name:** Kokomo
CEC: 17.44 **Fert. Level:** G good
Soil Drainage: G good

Additional Measured Elements

Application Description

	A	B	C
Application Date:	4-25-2017	5-26-2017	6-6-2017
Appl. Start Time:	12:30 PM	8:30 AM	8:30 AM
Appl. Stop Time:	1:00 PM	9:00 AM	8:45 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	EPO	POST
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	Dobbels	Dobbels	Ackley
Air Temperature, Unit:	72 F	60 F	59 F
% Relative Humidity:	55	79	77
Wind Velocity, Unit:	7 MPH	11 MPH	7 MPH
Wind Direction:	ESE	W	N
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	56 F	59 F	60 F
Soil Moisture:	DRY	WET	MOIST
% Cloud Cover:	5	1	0
Next Moisture Occurred On:	4-27-2017	5-26-2017	6-13-2017
Time to Next Moisture, Unit:	2 DAY	12 HR	1 WK

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:			13	100	15	100
Height, Unit:			6.5	IN	19	IN
Height Minimum, Maximum:			6	7	18	20

Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	BBCH	SETFA W
Stage Majority, Percent:			12	100	13 100	
Height, Unit:			1.5	IN	4 IN	
Height Minimum, Maximum:			1	2	3 5	
Density, Unit:			334	M2	334 M2	
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR W	
Stage Majority, Percent:			16	100	19 100	
Height, Unit:			5	IN	12 IN	
Height Minimum, Maximum:			3	6	8 16	
Density, Unit:			22	m2	22 M2	
Pest 3 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL W	
Stage Majority, Percent:			14 100			
Height, Unit:			1 IN			
Height Minimum, Maximum:			1 1.5			
Density, Unit:			20 M2			
Pest 4 Code, Type, Scale:	ABUTH	W	ABUTH	W	ABUTH W	
Density, Unit:			5 M2			

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Application Equipment

	A	B	C
Appl. Equipment:	10' AI XR	10' AI XR	10' AI XR
Equipment Type:	SPRBAC	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR	AI XR
Nozzle Size:	110015	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN
Boom Length, Unit:	10 FT	10 FT	10 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:	2 Liters	2 Liters	2 Liters
Propellant:	CO2	CO2	CO2

Trt No Treatment Application Comment

Date By Notes

No. Date By Deviations

Pest Type		W Weed	W Weed	W Weed				
Pest Code		SETFA	AMBTR	CHEAL				
Pest Name		Giant foxtail	Giant common ragweed	lambsqu>				
Crop Code		ZEAMX			ZEAMX	ZEAMX	ZEAMX	
Crop Name		Corn			Corn	Corn	Corn	
Rating Date		5-30-2017	5-30-2017	5-30-2017	6-20-2017	6-20-2017	6-20-2017	
Rating Type		PHYGEN	CONTRO	CONTRO	CONTRO	PHYCHL	PHYNEC	PHYSTU
Rating Unit		%	%	%	%	%	%	%
Number of Subsamples		1	1	1	1	1	1	1
Days After First/Last Applic.		35 4	35 4	35 4	35 4	56 14	56 14	56 14
Trt-Eval Interval		4 DA-B	4 DA-B	4 DA-B	4 DA-B	14 DA-C	14 DA-C	14 DA-C
Days After Emergence		20 DE-1	20 DE-1	20 DE-1	20 DE-1	41 DE-1	41 DE-1	41 DE-1
Number of Decimals		0	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6	7
1	Acuron	3 qt/a		A	1 c	100 a	71 bcd	100	0 -	0 -	0 -
2	Acuron Flexi	2.25 qt/a		A	1 bc	100 a	65 cde	100	0 -	0 -	0 -
3	Acuron	1.5 qt/a		A	2 bc	100 a	85 ab	100	0 -	0 -	0 -
	3 Acuron	1.5 qt/a		B							
	3 Roundup PowerMax	26 oz/a		B							
	3 N PAK AMS	1.5 qt/a		B							
4	Resicore	2.5 qt/a		A	2 bc	100 a	65 cde	100	0 -	0 -	0 -
	4 Atrazine	1 qt/a		A							
5	Resicore	2.5 qt/a		A	0 c	96 abc	59 def	100	0 -	0 -	0 -
6	Resicore	1.5 qt/a		A	0 c	100 a	76 bc	100	0 -	0 -	0 -
	6 Durango DMA	1 qt/a		B							
	6 Atrazine	1 qt/a		B							
	6 N PAK AMS	1.5 qt/a		B							
7					1 bc	97 ab	65 cde	100	0 -	0 -	0 -
8	Corvus	5.6 oz/a		A	0 c	89 bc	63 cde	100	0 -	0 -	0 -
	8 Atrazine	1 qt/a		A							
9	Anthem Maxx	4 oz/a		A	0 c	100 a	48 f	100	0 -	0 -	0 -
	9 Balance Flexx	4 oz/a		A							

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Pest Type	W Weed	W Weed	W Weed							
Pest Code	SETFA	AMBTR	CHEAL							
Pest Name	Giant foxtail	Giant common lambsqu>	ragweed							
Crop Code	ZEAMX			ZEAMX	ZEAMX	ZEAMX				
Crop Name	Corn			Corn	Corn	Corn				
Rating Date	5-30-2017	5-30-2017	5-30-2017	5-30-2017	6-20-2017	6-20-2017				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYCHL	PHYNEC				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	35 4	35 4	35 4	35 4	56 14	56 14				
Trt-Eval Interval	4 DA-B	4 DA-B	4 DA-B	4 DA-B	14 DA-C	14 DA-C				
Days After Emergence	20 DE-1	20 DE-1	20 DE-1	20 DE-1	41 DE-1	41 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1	2	3	4	5	6	7
10 Zidua SC	3.3 oz/a		A	3 abc	90 bc	51 ef	100	0 -	0 -	0 -
10 Sharpen	2 oz/a		A							
10 Atrazine	1 qt/a		A							
10 Roundup PowerMax	32 oz/a		C							
10 N PAK AMS	1.5 qt/a		C							
11 Verdict	16 oz/a		A	3 abc	95 abc	64 cde	100	0 -	0 -	0 -
11 Atrazine	1 qt/a		A							
11 Roundup PowerMax	32 oz/a		C							
11 Status	5 oz/a		C							
11 N PAK AMS	1.5 qt/a		C							
12 Armezon PRO	16 oz/a		B	3 ab	90 bc	61 def	100	0 -	0 -	0 -
12 Roundup PowerMax	16 oz/a		B							
12 Engenia	6.4 oz/a		B							
12 Atrazine	1 qt/a		B							
12 NIS	0.25 % v/v		B							
12 N PAK AMS	1.5 qt/a		B							
13 Armezon PRO	16 oz/a		B	5 a	88 c	92 a	100	0 -	0 -	0 -
13 Roundup PowerMax	16 oz/a		B							
13 Atrazine	1 qt/a		B							
13 NIS	0.25 % v/v		B							
13 N PAK AMS	1.5 qt/a		B							
14 Untreated				0 c	0 d	0 g	0 a	0 -	0 -	0 -
LSD P=.05				2.6	9.2	13.9
Standard Deviation				1.8	6.4	9.7	0.0	0.0	0.0	0.0
CV				129.96	7.23	15.75	0.0	0.0	0.0	0.0
Bartlett's X2				6.703	34.755	12.396	0.0	0.0	0.0	0.0
P(Bartlett's X2)				0.569	0.001*	0.414
Skewness				1.6346*	-2.9243*	-0.9756*	-3.4205*	.	.	.
Kurtosis				2.5586*	7.6872*	1.1127	10.0581*	.	.	.
Replicate F				2.870	6.614	15.742	0.000	0.000	0.000	0.000
Replicate Prob(F)				0.0486	0.0010	0.0001	1.0000	1.0000	1.0000	1.0000
Treatment F				2.849	65.569	19.250	0.000	0.000	0.000	0.000
Treatment Prob(F)				0.0057	0.0001	0.0001	1.0000	1.0000	1.0000	1.0000

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Pest Code	SETFA	AMBTR	ABUTH	CHEAL	SETFA	AMBTR
Pest Name	Giant foxtail	Giant ragweed	velvetleaf common	lambsqu>	Giant foxtail	Giant ragweed
Crop Code						
Crop Name						
Rating Date	6-20-2017	6-20-2017	6-20-2017	6-20-2017	7-7-2017	7-7-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%					
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	56 14	56 14	56 14	56 14	73 31	73 31
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	31 DA-C	31 DA-C
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	58 DE-1	58 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	8	9	10	11	12	13
1	Acuron	3 qt/a		A	100 ab	83 bcd	100	100	93 ab	75 bc
2	Acuron Flexi	2.25 qt/a		A	99 ab	66 ef	100	100	86 abc	55 de
3	Acuron	1.5 qt/a		A	100 a	94 ab	100	100	99 a	80 ab
3	Acuron	1.5 qt/a		B						
3	Roundup PowerMax	26 oz/a		B						
3	N PAK AMS	1.5 qt/a		B						
4	Resicore	2.5 qt/a		A	97 abc	71 def	100	100	74 cd	60 cd
4	Atrazine	1 qt/a		A						
5	Resicore	2.5 qt/a		A	93 bcd	65 ef	100	100	83 bc	30 f
6	Resicore	1.5 qt/a		A	100 a	80 cd	100	100	68 d	63 bcd
6	Durango DMA	1 qt/a		B						
6	Atrazine	1 qt/a		B						
6	N PAK AMS	1.5 qt/a		B						
7					96 abc	90 abc	100	100	97 a	99 a
8	Corvus	5.6 oz/a		A	88 d	75 de	100	100	68 d	55 de
8	Atrazine	1 qt/a		A						
9	Anthem Maxx	4 oz/a		A	98 ab	60 fg	100	100	97 a	40 ef
9	Balance Flexx	4 oz/a		A						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	ABUTH	CHEAL	SETFA	AMBTR				
Pest Name	Giant foxtail	Giant ragweed	velvetleaf	common lambsqu>	Giant foxtail	Giant ragweed				
Crop Code										
Crop Name										
Rating Date	6-20-2017	6-20-2017	6-20-2017	6-20-2017	7-7-2017	7-7-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%									
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	56 14	56 14	56 14	56 14	73 31	73 31				
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	31 DA-C	31 DA-C				
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	58 DE-1	58 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	8	9	10	11	12	13
10	Zidua SC	3.3 oz/a		A	91 cd	51 g	100	100	91 ab	70 bcd
10	Sharpen	2 oz/a		A						
10	Atrazine	1 qt/a		A						
10	Roundup PowerMax	32 oz/a		C						
10	N PAK AMS	1.5 qt/a		C						
11	Verdict	16 oz/a		A	93 bcd	74 de	100	100	75 cd	82 ab
11	Atrazine	1 qt/a		A						
11	Roundup PowerMax	32 oz/a		C						
11	Status	5 oz/a		C						
11	N PAK AMS	1.5 qt/a		C						
12	Armezon PRO	16 oz/a		B	97 abc	96 a	100	100	77 cd	68 bcd
12	Roundup PowerMax	16 oz/a		B						
12	Engenia	6.4 oz/a		B						
12	Atrazine	1 qt/a		B						
12	NIS	0.25 % v/v		B						
12	N PAK AMS	1.5 qt/a		B						
13	Armezon PRO	16 oz/a		B	98 ab	94 ab	100	100	81 bc	68 bcd
13	Roundup PowerMax	16 oz/a		B						
13	Atrazine	1 qt/a		B						
13	NIS	0.25 % v/v		B						
13	N PAK AMS	1.5 qt/a		B						
14	Untreated				0 e	0 h	0 a	0 a	0 e	0 g
LSD P=.05		6.5				12.2	.	.	13.7	19.5
Standard Deviation		4.5				8.6	0.0	0.0	9.6	13.7
CV		5.08				12.0	0.0	0.0	12.34	22.69
Bartlett's X2		27.939				20.125	0.0	0.0	23.791	26.531
P(Bartlett's X2)		0.002*				0.065	.	.	0.022*	0.005*
Skewness		-3.1331*				-1.5114*	-3.4205*	-3.4205*	-1.9988*	-0.9506*
Kurtosis		8.7284*				2.4196*	10.0581*	10.0581*	4.1222*	0.5149
Replicate F		6.247				2.670	0.000	0.000	0.166	2.321
Replicate Prob(F)		0.0014				0.0608	1.0000	1.0000	0.9187	0.0902
Treatment F		130.831				33.042	0.000	0.000	26.733	12.803
Treatment Prob(F)		0.0001				0.0001	1.0000	1.0000	0.0001	0.0001

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Pest Code	CHEAL	SETFA	AMBTR	CHEAL
Pest Name	common lambsqu>	Giant foxtail	Giant common lambsqu>	ragweed
Crop Code				
Crop Name				
Rating Date	7-7-2017	8-1-2017	8-1-2017	8-1-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit				
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	73 31	98 56	98 56	98 56
Trt-Eval Interval	31 DA-C	56 DA-C	56 DA-C	56 DA-C
Days After Emergence	58 DE-1	83 DE-1	83 DE-1	83 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	14	15	16	17	18
1	Acuron	3 qt/a		A	100	80 c	78 ab	100	
2	Acuron Flexi	2.25 qt/a		A	100	81 bc	43 cde	100	
3	Acuron	1.5 qt/a		A	100	91 ab	80 ab	100	
3	Acuron	1.5 qt/a		B					
3	Roundup PowerMax	26 oz/a		B					
3	N PAK AMS	1.5 qt/a		B					
4	Resicore	2.5 qt/a		A	100	74 cd	35 def	100	
4	Atrazine	1 qt/a		A					
5	Resicore	2.5 qt/a		A	100	78 c	19 fg	100	
6	Resicore	1.5 qt/a		A	100	73 cd	64 bc	100	
6	Durango DMA	1 qt/a		B					
6	Atrazine	1 qt/a		B					
6	N PAK AMS	1.5 qt/a		B					
7					100	94 a	98 a	100	
8	Corvus	5.6 oz/a		A	100	64 d	48 cd	100	
8	Atrazine	1 qt/a		A					
9	Anthem Maxx	4 oz/a		A	100	92 ab	20 efg	100	
9	Balance Flexx	4 oz/a		A					

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Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	CHEAL	SETFA	AMBTR	CHEAL					
Pest Name	common lambsqu	Giant foxtail	Giant common lambsqu	ragweed					
Crop Code									
Crop Name									
Rating Date	7-7-2017	8-1-2017	8-1-2017	8-1-2017					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit									
Number of Subsamples	1	1	1	1 1					
Days After First/Last Applic.	73 31	98 56	98 56	98 56					
Trt-Eval Interval	31 DA-C	56 DA-C	56 DA-C	56 DA-C					
Days After Emergence	58 DE-1	83 DE-1	83 DE-1	83 DE-1					
Number of Decimals	0	0	0	0					
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	14	15	16	17	18
10	Zidua SC	3.3 oz/a		A	100	83 bc	75 ab	100	
10	Sharpen	2 oz/a		A					
10	Atrazine	1 qt/a		A					
10	Roundup PowerMax	32 oz/a		C					
10	N PAK AMS	1.5 qt/a		C					
11	Verdict	16 oz/a		A	100	75 c	80 ab	100	
11	Atrazine	1 qt/a		A					
11	Roundup PowerMax	32 oz/a		C					
11	Status	5 oz/a		C					
11	N PAK AMS	1.5 qt/a		C					
12	Armezon PRO	16 oz/a		B	100	79 c	73 b	100	
12	Roundup PowerMax	16 oz/a		B					
12	Engenia	6.4 oz/a		B					
12	Atrazine	1 qt/a		B					
12	NIS	0.25 % v/v		B					
12	N PAK AMS	1.5 qt/a		B					
13	Armezon PRO	16 oz/a		B	100	78 c	73 b	100	
13	Roundup PowerMax	16 oz/a		B					
13	Atrazine	1 qt/a		B					
13	NIS	0.25 % v/v		B					
13	N PAK AMS	1.5 qt/a		B					
14	Untreated				0 a	0 e	0 g	0 a	
LSD P=.05					.	11.1	23.5	.	.
Standard Deviation					0.0	7.8	16.4	0.0	.
CV					0.0	10.44	29.43	0.0	.
Bartlett's X2					0.0	18.25	36.958	0.0	.
P(Bartlett's X2)					.	0.108	0.001*	.	.
Skewness					-3.4205*	-2.294*	-0.7586*	-3.4205*	.
Kurtosis					10.0581*	5.2972*	-0.7009	10.0581*	.
Replicate F					0.000	2.579	0.601	0.000	
Replicate Prob(F)					1.0000	0.0674	0.6184	1.0000	
Treatment F					0.000	34.809	12.304	0.000	
Treatment Prob(F)					1.0000	0.0001	0.0001	1.0000	

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Pest Type

W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US

AMBTR, Ambrosia trifida, Giant ragweed = US

CHEAL, Chenopodium album, common lambsquarters = US

ABUTH, Abutilon theophrasti, velvetleaf = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

PHYCHL = phytotoxicity - chlorosis

PHYNEC = phytotoxicity - necrosis /burn

PHYSTU = phytotoxicity - stunting

Rating Unit

% = percent