

The Ohio State University

Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
 Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Trial Status: E established
ARM Trial Created On: Mar-30-2021
Initiation Date: Apr-23-2021

Trial Location

Address (Location): 7721 South Charleston Pike
City: South Charleston **Country:** USA United States
State/Prov.: Ohio
Postal Code: 45368

Latitude of LL Corner °: 39.85753 N
Longitude of LL Corner °: -83.67004 W
Altitude of LL Corner: 1101.00 FT

Conducted Under GLP: No
Conducted Under GEP: No

Crop Description

Crop 1: C ZEAMX Zea mays Corn **BBCH Scale:** BCOR
Entry Date: May-3-2021 **Stage Scale:** BBCH
Variety: PIONEER P1108Q
Attributes: Glyphosate-R, Glufosinate-R
% Germination: 95
Planting Date: Apr-27-2021 **Planting Rate:** 32097 S/A
Depth: 2 IN
Rows per Plot: 4 **Planting Method:** PLANTD planted
Row Spacing: 30 IN **Planting Equipment:** FPP finger pickup planter
Seed Bed: MEDIUM medium
Soil Moisture: SLIDRY slightly dry
Soil Temperature: 63 F
Emergence Date: May-14-2021
Harvest Date: Oct-11-2021 **Harvest Equipment:** Kincaid 8XP
Moisture Meter: Harvest Master **Harvested Width:** 5 FT
% Standard Moisture: 15.5 **Harvested Length:** 30 FT
Weighing Equipment: Harvest Master HM800

Pest Description

Pest 1 Type: W **Code:** SETFA *Setaria faberi* **Entry Date:** Jun-7-2021
Common Name: Giant foxtail **Stage Scale:** BBCH

Pest 2 Type: W **Code:** ECHCG *Echinochloa crus-galli* **Entry Date:** Jun-25-2021
Common Name: Common barnyard grass **Stage Scale:** BBCH

Pest 3 Type: W **Code:** AMBTR *Ambrosia trifida* **Entry Date:** Jun-7-2021
Common Name: Giant ragweed **Stage Scale:** BBCH
Attributes: gly-R

Pest 4 Type: W **Code:** CHEAL *Chenopodium album* **Entry Date:** Jun-7-2021
Common Name: common lambsquarters **Stage Scale:** BBCH
Attributes: atrazine-R

Pest 5 Type: W **Code:** AMARE *Amaranthus retroflexus* **Entry Date:** Jun-7-2021
Common Name: Redroot pigweed **Stage Scale:** BBCH
Attributes: atrazine-R

Pest 6 Type: W **Code:** ABUTH *Abutilon theophrasti* **Entry Date:** Jun-7-2021
Common Name: velvetleaf **Stage Scale:** BBCH

Site and Design

Treated Plot Width: 6.67 FT **Site Type:** FIELD field
Treated Plot Length: 30 FT **Experimental Unit:** 1 PLOT plot
Treated Plot Area: 200.1 FT² **Treatments:** 10 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB� Randomized Complete Block (RCB)

Previous

No. Crop Year
 1. SOYBEAN 2020

Soil Description

Description Name: Big E **Texture:** SICL silty clay loam
% Sand: 44 **% OM:** 3.1 **pH:** 6.6 **Soil Name:** Kokomo
% Silt: 45 **CEC:** 15 **Fert. Level:** G good
% Clay: 11
 g o o d

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Application Description

	A		B	
Application Date	Apr-28-2021		Jun-6-2021	
Appl. Start Time	7:30 AM		9:30 AM	
Appl. Stop Time	8:00 AM		10:00 AM	
Interval to Prev. Appl.			39 DAYS	
Application Method	SPRAY		SPRAY	
Application Timing	PREPRE		POSPOS	
Application Placement	BROSOI		BROFOL	
Applied By	ACKLEY		ACKLEY	
Appl. Entry Date	May-3-2021		Jun-7-2021	
Air Temperature Start, Stop	66	67.7 F	81	83 F
% Relative Humidity Start, Stop	65	63	60	56
Wind Velocity+Dir. Start	6	MPH WSW	5	MPH SSW
Wind Velocity+Dir. Stop	8	MPH WSW	5	MPH SSW
Wind Velocity+Dir. Max	9.2	MPH WSW	6	MPH SSW
Wet Leaves (Y/N)	N no		N no	
Soil Temperature	58	F	67	F
Soil Moisture	DRY		DRY	
Soil Surface Condition	MEDIUM		MEDIUM	
% Cloud Cover	40		60	
Next Moisture Occurred On	Apr-28-2021		Jun-7-2021	
Time to Next Moisture	11.5 HR		22.0 HR	
Moisture 6 Hours after Appl.	0	IN	0	IN
Moisture 1 Week after Appl.	1.1	IN	0.48	IN

Crop Stage At Each Application

	A		B	
	ZEAMX	BCOR	ZEAMX	BCOR
Crop 1 Code, BBCH Scale				
Days after Emergence	-16		23	
Stage Majority, Percent	0	100	15	100
Height Average			12	IN
Height Minimum, Maximum			11	13
Stage Majority, Percent	00	100		

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Pest Stage At Each Application

	A			B		
Pest 1 Code, Type, Scale	SETFA	W	BBCH	SETFA	W	BBCH
Stage Majority, Percent				13		80
Stage Minimum, Percent				12		10
Stage Maximum, Percent				14		10
Height Average				8		IN
Height Minimum, Maximum				8		10
Density Average				411		PLA/m2
Density Minimum, Maximum				228		676
Pest 2 Code, Type, Scale	ECHCG	W	BBCH	ECHCG	W	BBCH
Stage Majority, Percent				13		80
Stage Minimum, Percent				12		10
Stage Maximum, Percent				14		10
Height Average				8		IN
Height Minimum, Maximum				8		10
Density Average				78		PLA/m2
Density Minimum, Maximum				48		128
Pest 3 Code, Type, Scale	AMBTR	W	BBCH	AMBTR	W	BBCH
Stage Majority, Percent				19		80
Stage Minimum, Percent				14		10
Stage Maximum, Percent				19		80
Height Average				8		IN
Height Minimum, Maximum				6		10
Density Average				13		PLA/m2
Density Minimum, Maximum				4		32
Pest 4 Code, Type, Scale	CHEAL	W	BBCH	CHEAL	W	BBCH
Stage Majority, Percent				16		80
Stage Minimum, Percent				14		10
Stage Maximum, Percent				18		10
Height Average				3		IN
Height Minimum, Maximum				2		3
Density Average				73		PLA/m2
Density Minimum, Maximum				64		88
Pest 5 Code, Type, Scale	AMARE	W	BBCH	AMARE	W	BBCH
Stage Majority, Percent				14		80
Stage Minimum, Percent				12		10
Stage Maximum, Percent				16		10
Height Average				2		IN
Height Minimum, Maximum				1		2
Density Average				1		PLA/m2
Density Minimum, Maximum				1		1
Pest 6 Code, Type, Scale	ABUTH	W	BBCH	ABUTH	W	BBCH
Stage Majority, Percent				13		80
Stage Minimum, Percent				12		10
Stage Maximum, Percent				14		10
Height Average				3		IN
Height Minimum, Maximum				2		3
Density Average				0.25		PLA/m2
Density Minimum, Maximum				0		3

Application Equipment

	A		B	
Appl. Equipment	6'	TTI	10'	AIXR
Equipment Type	BACCAI		BACCAI	
Operation Pressure	44	PSI	44	PSI
Nozzle Model	1110015		110015	
Nozzle Type	TTI		AI XR	
Nozzle TradeName			TeeJet	
Nozzle Tip Size, Color			015	green
Nozzle Spacing	18	IN	18	IN
Boom Length	6.67	FT	10	FT
Boom Height	20	IN	20	IN
Ground Speed	3	MPH	3	MPH
Carrier	WATER		WATER	
Water Hardness (ppm CaCO3)			250	
Application Amount	15	GAL/AC	15	GAL/AC
Mix Overage			25	mL
Mix Size	1	L	2	L
Spray pH			7.8	
Propellant	COMCO2		COMCO2	
Tank Mix (Y/N)			Y	yes

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Notes

Context Date By Notes
 STATUS Mar-30-2021 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'S' during trial creation.
 STATUS May-3-2021 Dr. Mark M. Loux Automatically added by ARM: Trial Status updated to 'E' when Planting Date entered.

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	CONSS
Pest Name	Giant foxtail	Giant ragweed common	lambsqua>	Morningglory
Crop Type, Code				
Crop Name				
Rating Date	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0	%VISUAL 0 100	%VISUAL 0
		100		100
Number of Subsamples	1	1	1	1
Assessed By				
Data Entry Date	Jun-21-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021
Rating Timing	AT POST			AT POST
Days After First/Last Applic.	37 37	37 37	37 37	37 37
Trt-Eval Interval	37 DA-A	37 DA-A	37 DA-A	37 DA-A
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1
ARM Action Codes	ET10			
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1* 2* 3* 4*

1	Acuron	3 qt/a	A	83 ab	74 a	100 a	100 a
2	Resicore	2.5 qt/a	A	88 a	71 a	100 a	98 a
	Atrazine	1 qt/a	A				
3	Corvus	5.6 oz/a	A	79 ab	70 a	100 a	100 a
	Atrazine	1.5 qt/a	A				
4	Bicep II Magnum	1.5 qt/a	A	75 ab	66 a	76 c	98 a
	Halex GT	3.6 pt/a	B				
	Atrazine	1 pt/a	B				
	NIS	4.8 oz/a	B				
	AMSOL	48 oz/a	B				
5	Harness Xtra 5.6	1.5 pt/a	A	69 b	60 a	89 ab	95 a
	Impact	0.75 oz/a	B				
	Atrazine	1 pt/a	B				
	HC MSO	9.6 oz/a	B				
	AMSOL	48 oz/a	B				
6	V10494	1 qt/a	A	81 ab	75 a	100 a	100 a
	Roundup Powermax	32 oz/a	B				
	Status	2.5 oz/a	B				
	NIS	4.8 oz/a	B				
	AMSOL	48 oz/a	B				
7	V10494	1 qt/a	A	76 ab	71 a	100 a	100 a
	Atrazine	0.75 qt/a	A				
	Roundup Powermax	32 oz/a	B				
	Status	2.5 oz/a	B				
	NIS	4.8 oz/a	B				
	AMSOL	48 oz/a	B				
8	Fearless	1 pt/a	A	78 ab	58 a	84 bc	100 a
	Katagon	3.2 oz/a	B				
	HC MSO	19.2 oz/a	B				
9	Fearless	1 pt/a	A	76 ab	64 a	80 bc	100 a
	Katagon	3.2 oz/a	B				
	Atrazine	1 qt/a	B				
	HC MSO	19.2 oz/a	B				

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Pest Code	SETFA	AMBTR	CHEAL	CONSS			
Pest Name	Giant foxtail	Giant ragweed common	lambsqua>	Morningglory			
Crop Type, Code							
Crop Name							
Rating Date	Jun-4-2021	Jun-4-2021	Jun-4-2021	Jun-4-2021			
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -			
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL			
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100			
Number of Subsamples	1	1	1	1			
Assessed By							
Data Entry Date	Jun-21-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021			
Rating Timing	AT POST			AT POST			
Days After First/Last Applic.	37 37	37 37	37 37	37 37			
Trt-Eval Interval	37 DA-A	37 DA-A	37 DA-A	37 DA-A			
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1			
ARM Action Codes	ET10						
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*
10 UTC				0	0 b	0 d	0 b
LSD P=.05				9.6	11.6	9.2	5.7
Standard Deviation				6.6	8.0	6.4	3.9
CV				8.41	13.18	7.68	4.42
Levene's F^				0.32	0.814	2.041	0.674
Levene's Prob(F)				0.951	0.607	0.069	0.725
Skewness^				0.4969	-1.3459*	0.9032*	-2.2427*
Kurtosis^				0.3559	5.6813*	2.798*	8.4939*
Replicate F				5.235	0.683	1.331	0.784
Replicate Prob(F)				0.0064	0.5700	0.2849	0.5133
Treatment F				2.567	30.530	92.349	253.901
Treatment Prob(F)				0.0353	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	ABUTH	SETFA	AMBTR	AMBTR	AMBTR			
Pest Name	piemarker	Giant foxtail	Giant ragweed	Giant ragweed	Giant ragweed			
Crop Type, Code		C ZEAMX	C ZEAMX					
Crop Name		Corn	Corn					
Rating Date	Jun-4-2021	Jun-14-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021			
Part Rated	PLOT -	PLANT -	PLANT -	PLOT -	PLOT -			
Rating Type	CONTROL	PHYGEN	PHYGEN	CONTROL	CONTROL			
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0	%VISUAL 0	%VISUAL 0	%VISUAL 0			
Number of Subsamples	1	1	1	1	1			
Assessed By								
Data Entry Date	Jun-21-2021	Jun-21-2021	Jun-22-2021	Jun-22-2021	Jun-22-2021			
Rating Timing	AT POST							
Days After First/Last Applic.	37 37	47 8	54 15	54 15	54 15			
Trt-Eval Interval	-2 DA-B	47 DA-A	54 DA-A	15 DA-B	15 DA-B			
Days After Emergence	21 DE-1	31 DE-1	38 DE-1	38 DE-1	38 DE-1			
ARM Action Codes			ET5	ET10	ET3			
Number of Decimals		0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	5*	6*	7*	8*	9*
1 Acuron	3 qt/a		A	100.0 a	0 b	0 -	63 cd	59 b
2 Resicore	2.5 qt/a		A	100.0 a	0 b	0 -	73 bc	30 c
Atrazine	1 qt/a		A					
3 Corvus	5.6 oz/a		A	100.0 a	0 b	0 -	59 d	38
Atrazine	1.5 qt/a		A					
4 Bicep II Magnum	1.5 qt/a		A	81.3 c	1 a	1 -	97 a	71 a
Halex GT	3.6 pt/a		B					
Atrazine	1 pt/a		B					
NIS	4.8 oz/a		B					
AMSOL	48 oz/a		B					
5 Harness Xtra 5.6	1.5 pt/a		A	92.5 ab	1 ab	2	69 cd	66 ab
Impact	0.75 oz/a		B					
Atrazine	1 pt/a		B					
HC MSO	9.6 oz/a		B					
AMSOL	48 oz/a		B					
6 V10494	1 qt/a		A	100.0 a	0 b	0 -	95 a	74 a
Roundup Powermax	32 oz/a		B					
Status	2.5 oz/a		B					
NIS	4.8 oz/a		B					
AMSOL	48 oz/a		B					
7 V10494	1 qt/a		A	100.0 a	0 b	0 -	95 a	74 a
Atrazine	0.75 qt/a		A					
Roundup Powermax	32 oz/a		B					
Status	2.5 oz/a		B					
NIS	4.8 oz/a		B					
AMSOL	48 oz/a		B					
8 Fearless	1 pt/a		A	85.0 bc	0 b	0 -	81 b	73 a
Katagon	3.2 oz/a		B					
HC MSO	19.2 oz/a		B					
9 Fearless	1 pt/a		A	90.0 abc	0 b	1 -	83 b	71 a
Katagon	3.2 oz/a		B					
Atrazine	1 qt/a		B					
HC MSO	19.2 oz/a		B					

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Pest Type	W Weed		W Weed		W Weed			
Pest Code	ABUTH		SETFA		AMBTR			
Pest Name	piemaker		Giant foxtail		Giant ragweed			
Crop Type, Code	C ZEAMX		C ZEAMX					
Crop Name	Corn		Corn					
Rating Date	Jun-4-2021	Jun-14-2021	Jun-21-2021	Jun-21-2021	Jun-21-2021			
Part Rated	PLOT -	PLANT -	PLANT -	PLOT -	PLOT -			
Rating Type	CONTROL	PHYGEN	PHYGEN	CONTROL	CONTROL			
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100			
Number of Subsamples Assessed By	1	1	1	1	1			
Data Entry Date	Jun-21-2021	Jun-21-2021	Jun-22-2021	Jun-22-2021	Jun-22-2021			
Rating Timing	AT POST							
Days After First/Last Applic.	37 37	47 8	54 15	54 15	54 15			
Trt-Eval Interval	-2 DA-B	47 DA-A	54 DA-A	15 DA-B	15 DA-B			
Days After Emergence	21 DE-1	31 DE-1	38 DE-1	38 DE-1	38 DE-1			
ARM Action Codes			ET5	ET10	ET3			
Number of Decimals		0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	5*	6*	7*	8*	9*
10 UTC				0.0 d	0 b	0 -	0	0 d
LSD P=.05				8.20	0.5	0.5	9.3	9.3
Standard Deviation				5.65	0.4	0.3	6.4	6.4
CV				6.66	205.0	173.21	8.03	11.14
Levene's F^				5.027	2.558	1.646	1.173	1.496
Levene's Prob(F)				0.00*	0.026*	0.158	0.351	0.205
Skewness^				0.2952	0.2131	0.2324	0.2284	0.7137
Kurtosis^				0.3947	3.7468*	0.5758	0.2517	2.2749*
Replicate F				0.855	0.712	1.551	0.524	1.647
Replicate Prob(F)				0.4763	0.5532	0.2271	0.6701	0.2049
Treatment F				117.583	3.475	2.633	20.562	64.244
Treatment Prob(F)				0.0001	0.0057	0.0317	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed				
Pest Code	CHEAL	CONSS	SETFA				
Pest Name	common lambsqua>	Morningglory	Giant foxtail				
Crop Type, Code			C ZEAMX				
Crop Name			Corn				
Rating Date	Jun-21-2021	Jun-21-2021	Jul-5-2021				
Part Rated	PLOT -	PLOT -	PLOT -				
Rating Type	CONTROL	CONTROL	PHYGEN CONTROL				
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100				
Number of Subsamples	1	1	1				
Assessed By							
Data Entry Date	Jun-22-2021	Jun-22-2021	Jul-8-2021				
Rating Timing							
Days After First/Last Applic.	54 15	54 15	68 29				
Trt-Eval Interval	15 DA-B	15 DA-B	68 DA-A				
Days After Emergence	38 DE-1	38 DE-1	52 DE-1				
ARM Action Codes			ET5				
Number of Decimals	0	0	0				
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	10*	11*	12*	13*
1 Acuron	3 qt/a		A	100 -	93 a	0 -	61 b
2 Resicore	2.5 qt/a		A	100 -	94 a	0 -	73 ab
Atrazine	1 qt/a		A				
3 Corvus	5.6 oz/a		A	100 -	94 a	0 -	60 b
Atrazine	1.5 qt/a		A				
4 Bicep II Magnum	1.5 qt/a		A	100 -	96 a	0 -	85 a
Halex GT	3.6 pt/a		B				
Atrazine	1 pt/a		B				
NIS	4.8 oz/a		B				
AMSOL	48 oz/a		B				
5 Harness Xtra 5.6	1.5 pt/a		A	100 -	95 a	1	49 c
Impact	0.75 oz/a		B				
Atrazine	1 pt/a		B				
HC MSO	9.6 oz/a		B				
AMSOL	48 oz/a		B				
6 V10494	1 qt/a		A	100 -	100 a	0 -	83 a
Roundup Powermax	32 oz/a		B				
Status	2.5 oz/a		B				
NIS	4.8 oz/a		B				
AMSOL	48 oz/a		B				
7 V10494	1 qt/a		A	100 -	100 a	0 -	83 a
Atrazine	0.75 qt/a		A				
Roundup Powermax	32 oz/a		B				
Status	2.5 oz/a		B				
NIS	4.8 oz/a		B				
AMSOL	48 oz/a		B				
8 Fearless	1 pt/a		A	100 -	98 a	0 -	71 ab
Katagon	3.2 oz/a		B				
HC MSO	19.2 oz/a		B				
9 Fearless	1 pt/a		A	100 -	99 a	0 -	73 ab
Katagon	3.2 oz/a		B				
Atrazine	1 qt/a		B				
HC MSO	19.2 oz/a		B				

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Pest Code	CHEAL	CONSS	SETFA				
Pest Name	common lambsqua>	Morningglory	Giant foxtail				
Crop Type, Code			C ZEAMX				
Crop Name			Corn				
Rating Date	Jun-21-2021	Jun-21-2021	Jul-5-2021				
Part Rated	PLOT -	PLOT -	PLANT -				
Rating Type	CONTROL	CONTROL	PHYGEN				
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100				
Number of Subsamples	1	1	1				
Assessed By							
Data Entry Date	Jun-22-2021	Jun-22-2021	Jul-8-2021				
Rating Timing							
Days After First/Last Applic.	54 15	54 15	68 29				
Trt-Eval Interval	15 DA-B	15 DA-B	68 DA-A				
Days After Emergence	38 DE-1	38 DE-1	52 DE-1				
ARM Action Codes			ET5				
Number of Decimals	0	0	0				
Trt Treatment No. Name	Other Rate	Other Rate	Appl Unit Code	10*	11*	12*	13*
10 UTC				0 -	0 b	0 -	0 d
LSD P=.05				.	9.9	.	9.4
Standard Deviation				0.0	6.8	0.0	6.5
CV				0.0	7.85	0.0	10.19
Levene's F^				.	0.291	.	1.044
Levene's Prob(F)				.	0.972	.	0.43
Skewness^				.	-0.5589	.	-0.5113
Kurtosis^				.	0.6687	.	2.0987*
Replicate F				0.000	6.629	0.000	1.760
Replicate Prob(F)				1.0000	0.0017	1.0000	0.1785
Treatment F				0.000	80.725	0.000	60.015
Treatment Prob(F)				1.0000	0.0001	1.0000	0.0001

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Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
 Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHSS	AMBTR	CHEAL	CONSS
Pest Name	Barnyardgrass	Giant ragweed	common lamb'squ	Morningglory
Crop Type, Code				
Crop Name				
Rating Date	Jul-5-2021	Jul-5-2021	Jul-5-2021	Jul-5-2021
Part Rated	PLOT -	PLOT -	PLOT -	PLOT -
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max	%VISUAL 0	%VISUAL 0	%VISUAL 0 100	%VISUAL 0
	100	100		100
Number of Subsamples	1	1	1	1
Assessed By	LAMB			
Data Entry Date	Jul-8-2021	Jul-8-2021	Jul-8-2021	Jul-8-2021
Rating Timing				
Days After First/Last Applic.	68 29	68 29	68 29	68 29
Trt-Eval Interval	29 DA-B	29 DA-B	29 DA-B	29 DA-B
Days After Emergence		52 DE-1	52 DE-1	52 DE-1
ARM Action Codes		ET10		AL
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	14*	15*	16*	17* dAL
1	Acuron	3 qt/a		A	61 c	39 bc	100 a	100 a
2	Resicore	2.5 qt/a		A	73 bc	30 c	100 a	100 a
	Atrazine	1 qt/a		A				
3	Corvus	5.6 oz/a		A	60 c	33 c	100 a	100 a
	Atrazine	1.5 qt/a		A				
4	Bicep II Magnum	1.5 qt/a		A	86 a	66 a	100 a	82 a
	Halex GT	3.6 pt/a		B				
	Atrazine	1 pt/a		B				
	NIS	4.8 oz/a		B				
	AMSOL	48 oz/a		B				
5	Harness Xtra 5.6	1.5 pt/a		A	49 d	55 ab	100 a	87 a
	Impact	0.75 oz/a		B				
	Atrazine	1 pt/a		B				
	HC MSO	9.6 oz/a		B				
	AMSOL	48 oz/a		B				
6	V10494	1 qt/a		A	83 ab	69 a	100 a	88 a
	Roundup Powermax	32 oz/a		B				
	Status	2.5 oz/a		B				
	NIS	4.8 oz/a		B				
	AMSOL	48 oz/a		B				
7	V10494	1 qt/a		A	83 ab	58 a	100 a	96 a
	Atrazine	0.75 qt/a		A				
	Roundup Powermax	32 oz/a		B				
	Status	2.5 oz/a		B				
	NIS	4.8 oz/a		B				
	AMSOL	48 oz/a		B				
8	Fearless	1 pt/a		A	71 bc	53 ab	96 a	91 a
	Katagon	3.2 oz/a		B				
	HC MSO	19.2 oz/a		B				
9	Fearless	1 pt/a		A	73 bc	64 a	100 a	89 a
	Katagon	3.2 oz/a		B				
	Atrazine	1 qt/a		B				
	HC MSO	19.2 oz/a		B				

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Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
 Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHSS	AMBTR	CHEAL	CONSS
Pest Name	Barnyardgrass	Giant ragweed	common lambsq>	Morningglory
Crop Type, Code				
Crop Name				
Rating Date	Jul-5-2021	Jul-5-2021	Jul-5-2021	Jul-5-2021
Part Rated	PLOT -		PLOT -	PLOT -
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100	%VISUAL 0 100
Number of Subsamples	1	1	1	1
Assessed By	LAMB			
Data Entry Date	Jul-8-2021	Jul-8-2021	Jul-8-2021	Jul-8-2021
Rating Timing				
Days After First/Last Applic.	68 29	68 29	68 29	68 29
Trt-Eval Interval	29 DA-B	29 DA-B	29 DA-B	29 DA-B
Days After Emergence		52 DE-1	52 DE-1	52 DE-1
ARM Action Codes		ET10		AL
Number of Decimals	0	0	0	0
Trt Treatment	Other	Other	Other	Other
No. Name	Rate Rate Unit Code	Rate Rate Unit Code	Rate Rate Unit Code	Rate Rate Unit Code
10 UTC				
LSD P=.05	0 e	0	0 b	0 b
Standard Deviation	9.5	13.5	3.4	11.0 - 11.8
CV	6.5	9.3	2.4	0.0t
Levene's F^	10.25	17.96	2.65	2.11t
Levene's Prob(F)	0.935	0.49	0.711	0.643
Skewness^	0.51	0.852	0.694	0.752
Kurtosis^	-0.4366	0.9557*	-3.2005*	-0.0906
Replicate F	1.8893*	0.9594	18.2785*	0.106
Replicate Prob(F)	1.738	3.806	1.000	7.262
Treatment F	0.1830	0.0231	0.4079	0.0010
Treatment Prob(F)	59.642	9.871	706.185	1116.509
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001

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Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
 Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHSS	AMBTR
Pest Name	Giant foxtail	Barnyardgrass	Giant ragweed
Crop Type, Code	C ZEAMX		
Crop Name	Corn		
Rating Date	Jul-19-2021	Jul-19-2021	Jul-19-2021
Part Rated	PLANT -	PLOT -	PLOT -
Rating Type	PHYGEN	CONTROL	CONTROL
Rating Unit/Min/Max	%VISUAL 0	%VISUAL 0 100	%VISUAL 0
Number of Subsamples	1	1	1
Assessed By			LAMB
Data Entry Date	Jul-23-2021	Jul-23-2021	Jul-23-2021
Rating Timing			
Days After First/Last Applic.	82 43	82 43	82 43
Trt-Eval Interval	82 DA-A	43 DA-B	43 DA-B
Days After Emergence	66 DE-1	66 DE-1	66 DE-1
ARM Action Codes		ET10	ET10
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	18*	19*	20*	21*
1	Acuron	3 qt/a		A	0 -	63 bc	63 bc	38 bcd
2	Resicore	2.5 qt/a		A	0 -	74 ab	74 ab	20 d
	Atrazine	1 qt/a		A				
3	Corvus	5.6 oz/a		A	0 -	61 bc	61 bc	33 cd
	Atrazine	1.5 qt/a		A				
4	Bicep II Magnum	1.5 qt/a		A	0 -	89 a	89 a	63 ab
	Halex GT	3.6 pt/a		B				
	Atrazine	1 pt/a		B				
	NIS	4.8 oz/a		B				
	AMSOL	48 oz/a		B				
5	Harness Xtra 5.6	1.5 pt/a		A	0 -	50 c	50 c	48 abc
	Impact	0.75 oz/a		B				
	Atrazine	1 pt/a		B				
	HC MSO	9.6 oz/a		B				
	AMSOL	48 oz/a		B				
6	V10494	1 qt/a		A	0 -	88 a	88 a	71 a
	Roundup Powermax	32 oz/a		B				
	Status	2.5 oz/a		B				
	NIS	4.8 oz/a		B				
	AMSOL	48 oz/a		B				
7	V10494	1 qt/a		A	0 -	88 a	88 a	63 ab
	Atrazine	0.75 qt/a		A				
	Roundup Powermax	32 oz/a		B				
	Status	2.5 oz/a		B				
	NIS	4.8 oz/a		B				
	AMSOL	48 oz/a		B				
8	Fearless	1 pt/a		A	0 -	65 bc	65 bc	49 abc
	Katagon	3.2 oz/a		B				
	HC MSO	19.2 oz/a		B				
9	Fearless	1 pt/a		A	0 -	61 bc	61 bc	56 abc
	Katagon	3.2 oz/a		B				
	Atrazine	1 qt/a		B				
	HC MSO	19.2 oz/a		B				

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Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
 Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	ECHSS	AMBTR		
Pest Name	Giant foxtail	Barnyardgrass	Giant ragweed		
Crop Type, Code	C ZEAMX				
Crop Name	Corn				
Rating Date	Jul-19-2021	Jul-19-2021	Jul-19-2021		
Part Rated	PLANT -	PLOT -	PLOT -		
Rating Type	PHYGEN	CONTROL	CONTROL		
Rating Unit/Min/Max	%VISUAL 0	%VISUAL 0 100	%VISUAL 0		
	100	100	100		
Number of Subsamples	1	1	1		
Assessed By			LAMB		
Data Entry Date	Jul-23-2021	Jul-23-2021	Jul-23-2021		
Rating Timing					
Days After First/Last Applic.	82 43	82 43	82 43		
Trt-Eval Interval	82 DA-A	43 DA-B	43 DA-B		
Days After Emergence	66 DE-1	66 DE-1	66 DE-1		
ARM Action Codes		ET10	ET10		
Number of Decimals	0	0	0		
Trt Treatment No. Name	Other Other Appl Rate Rate Unit Code	18*	19*	20*	21*
10 UTC		0 -	0	0	0 e
LSD P=.05		.	11.7	11.7	17.7
Standard Deviation		0.0	8.0	8.0	12.2
CV		0.0	11.27	11.27	27.83
Levene's F^		.	1.045	1.045	0.979
Levene's Prob(F)		.	0.429	0.429	0.477
Skewness^		.	0.68	0.68	1.0887*
Kurtosis^		.	3.2562*	3.2562*	2.3362*
Replicate F		0.000	0.886	0.886	1.357
Replicate Prob(F)		1.0000	0.4626	0.4626	0.2769
Treatment F		0.000	12.593	12.593	12.817
Treatment Prob(F)		1.0000	0.0001	0.0001	0.0001

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Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
 Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed
Pest Code	CHEAL	CONSS
Pest Name	common	Morningglory
	lambsq>	
Crop Type, Code		
Crop Name		
Rating Date	Jul-19-2021	Jul-19-2021
Part Rated	PLOT -	PLOT -
Rating Type	CONTROL	CONTROL
Rating Unit/Min/Max	%VISUAL 0 100	%VISUAL 0 100
Number of Subsamples	1	1
Assessed By		
Data Entry Date	Jul-23-2021	Jul-23-2021
Rating Timing		
Days After First/Last Applic.	82 43	82 43
Trt-Eval Interval	43 DA-B	43 DA-B
Days After Emergence	66 DE-1	66 DE-1
ARM Action Codes		
Number of Decimals	0	0
Trt Treatment	Other Other	Appl
No. Name	Rate Rate Unit Code	22* 23*

1	Acuron	3 qt/a	A	100 a	100 a
2	Resicore	2.5 qt/a	A	100 a	96 a
	Atrazine	1 qt/a	A		
3	Corvus	5.6 oz/a	A	99 a	98 a
	Atrazine	1.5 qt/a	A		
4	Bicep II Magnum	1.5 qt/a	A	100 a	83 a
	Halex GT	3.6 pt/a	B		
	Atrazine	1 pt/a	B		
	NIS	4.8 oz/a	B		
	AMSOL	48 oz/a	B		
5	Harness Xtra 5.6	1.5 pt/a	A	98 a	84 a
	Impact	0.75 oz/a	B		
	Atrazine	1 pt/a	B		
	HC MSO	9.6 oz/a	B		
	AMSOL	48 oz/a	B		
6	V10494	1 qt/a	A	100 a	88 a
	Roundup Powermax	32 oz/a	B		
	Status	2.5 oz/a	B		
	NIS	4.8 oz/a	B		
	AMSOL	48 oz/a	B		
7	V10494	1 qt/a	A	99 a	96 a
	Atrazine	0.75 qt/a	A		
	Roundup Powermax	32 oz/a	B		
	Status	2.5 oz/a	B		
	NIS	4.8 oz/a	B		
	AMSOL	48 oz/a	B		
8	Fearless	1 pt/a	A	96 a	90 a
	Katagon	3.2 oz/a	B		
	HC MSO	19.2 oz/a	B		
9	Fearless	1 pt/a	A	100 a	88 a
	Katagon	3.2 oz/a	B		
	Atrazine	1 qt/a	B		
	HC MSO	19.2 oz/a	B		

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Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
 Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
 Project ID: Study Director:
 Sponsor Contact:

Pest Type		W Weed	W Weed
Pest Code		CHEAL	CONSS
Pest Name		common	Morningglory
		lambsqua>	
Crop Type, Code			
Crop Name			
Rating Date		Jul-19-2021	Jul-19-2021
Part Rated		PLOT -	PLOT -
Rating Type		CONTROL	CONTROL
Rating Unit/Min/Max		%VISUAL 0 100	%VISUAL 0 100
			100
Number of Subsamples		1	1
Assessed By			
Data Entry Date		Jul-23-2021	Jul-23-2021
Rating Timing			
Days After First/Last Applic.		82 43	82 43
Trt-Eval Interval		43 DA-B	43 DA-B
Days After Emergence		66 DE-1	66 DE-1
ARM Action Codes			
Number of Decimals		0	0
Trt Treatment	Other Other	Appl	22*
No. Name	Rate Rate	Unit Code	23*
10 UTC			0 b
LSD P=.05			4.4
Standard Deviation			3.0
CV			3.41
Levene's F^			0.645
Levene's Prob(F)			0.75
Skewness^			-2.1315*
Kurtosis^			7.9789*
Replicate F			1.150
Replicate Prob(F)			0.3468
Treatment F			425.421
Treatment Prob(F)			0.0001

The Ohio State University

Corn Showcase Treatments

Trial ID: 21CORNSHOW Location: Western Branch Big E Trial Year: 2021
Protocol ID: 21CORNSHOW Investigator (Creator): Dr. Mark M. Loux
Project ID: Study Director:
Sponsor Contact:

Pest Type

W, Weed = Weed or volunteer crop

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
CONSS, Convolvulus sp., Morningglory = US
ABUTH, Abutilon theophrasti, piemaker = US
ECHSS, Echinochloa sp., Barnyardgrass = US

Crop Type, Code

C = EPPO species (Bayer) codes
ZEAMX, BCOR, Zea mays, Corn = US

Part Rated

PLOT = plot
PLANT = plant

Rating Type

PHYGEN = phytotoxicity - general / injury

ARM Action Codes

ET10 = Excluded treatment 10
ET5 = Excluded treatment 5
ET3 = Excluded treatment 3
AL = Automatic log transformation of X+1