

Company Showcase Corn Herbicide Programs

Trial ID: 15CORNSHOW Location: Western Branch Big E Trial Year: 2015
 Protocol ID: 15CORNSHOW 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 °: 39.85711 N
Longitude of LL Corner °: 83.67009 W

Conducted Under GLP: No
Conducted Under GEP: No

Contacts

Study Director: Anthony Dobbels

Investigator: Dr. Mark M. Loux

Crop Description

Crop 1: ZEAMX Zea mays
Variety: SCS 1105 AM
Description: Seed Consultants RR / LL

Corn

Planting Rate, Unit: 32097 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 60 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDIUM medium

Planting Date: 5-3-2015
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-9-2015

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:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

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

Pest 5 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Pest 6 Type: W **Code:** HIBTR Hibiscus trionum
Common Name: Venice mallow

Pest 7 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest 8 Type: W **Code:** POLPY Persicaria pensylvanica
Common Name: Pennsylvania smartweed

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT2 **Treatments:** 16
Replications: 4

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 2014

Soil Description

Description Name: Big E

% OM: 2.8

pH: 5.9

CEC: 17.44

Texture: SIL silt loam

Soil Name: Kokomo

Fert. Level: G good

Soil Drainage: G good

Additional Measured Elements

Date	Element	Quantity	Unit
4-24-2015	NH3	180	LBS

Application Description

	A	B
Application Date:	5-4-2015	5-28-2015
Appl. Start Time:	11:00 AM	9:10 AM
Appl. Stop Time:	11:20 AM	9:30 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOI	BROFOL
Applied By:	Dobbels	Dobbels
Air Temperature, Unit:	73 F	69 F
% Relative Humidity:	45	75
Wind Velocity, Unit:	10 MPH	2.5 MPH
Wind Direction:	SW	E
Dew Presence (Y/N):	N no	
Soil Temperature, Unit:	58 F	66 F
Soil Moisture:	DRY	DRY/MOIST
% Cloud Cover:	40	60
Next Moisture Occurred On:	5-5-2015	5-30-2015
Time to Next Moisture, Unit:	14 HR	2 DAY

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		14 100
Height, Unit:		10 IN
Height Minimum, Maximum:		10 12

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		13 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 5
Density, Unit:		126 M2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		14 90
Stage Minimum, Percent:		14 90
Stage Maximum, Percent:		16 10
Diameter, Unit:		3 IN
Height, Unit:		4 IN
Height Minimum, Maximum:		3 5
Density, Unit:		2 M2
Pest 3 Code, Type, Scale:	AMARE W	AMARE W
Stage Majority, Percent:		14 80
Stage Minimum, Percent:		14 80
Stage Maximum, Percent:		16 20
Height, Unit:		2 IN
Height Minimum, Maximum:		1 3
Density, Unit:		4 M2
Pest 4 Code, Type, Scale:	CHEAL W	CHEAL W
Stage Majority, Percent:		16 80
Stage Minimum, Percent:		14 20
Stage Maximum, Percent:		16 80
Diameter, Unit:		1 IN
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:		5.25 M2
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W
Stage Majority, Percent:		12 90
Stage Minimum, Percent:		12 90
Stage Maximum, Percent:		13 10
Height, Unit:		3 IN
Height Minimum, Maximum:		2 3
Density, Unit:		1 M2
Pest 6 Code, Type, Scale:	HIBTR W	HIBTR W
Stage Majority, Percent:		12 100
Diameter, Unit:		1 IN
Height, Unit:		1 IN
Height Minimum, Maximum:		1 1.5
Density, Unit:		0.5 M2
Pest 7 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:		12 100
Height, Unit:		2 IN
Height Minimum, Maximum:		1 2
Density, Unit:		0.5 M2
Pest 8 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		12 90
Stage Minimum, Percent:		11 10
Stage Maximum, Percent:		12 90
Diameter, Unit:		1 IN
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 1
Density, Unit:		0.5 M2

Application Equipment

	A	B
Appl. Equipment:	6 FOOT BOOM	10' AI XR
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6.67 FT	10 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	2 Liters	2 Liters
Propellant:	CO2	CO2

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	5-27-2015	5-27-2015	5-27-2015	5-27-2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	23 23
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3	4
1	Keystone NXT	2.5 qt/a		A	PRE		0 a	93 a	93 a	100 a
1	Hornet	3 oz/a		A	PRE					
1	Durango DMA	1 qt/a		B	POST					
1	N PAK AMS	1.5 qt/a		B	POST					
2	Surestart II	2.5 pt/a		A	PRE		0 a	79 bc	79 a-d	100 a
2	Atrazine	1 qt/a		A	PRE					
2	Durango DMA	1 qt/a		B	POST					
2	N PAK AMS	1.5 qt/a		B	POST					
3	GF-3471	2.5 qt/a		A	PRE		0 a	87 ab	89 ab	100 a
3	Atrazine	1 qt/a		A	PRE					
3	Durango DMA	1 qt/a		B	POST					
3	N PAK AMS	1.5 qt/a		B	POST					
4	Acuron	1.5 qt/a		A	PRE		0 a	68 d	73 cd	93 ab
4	Halex GT	3.6 pt/a		B	POST					
4	AAtrex	1 pt/a		B	POST					
4	NIS	4.8 oz/a		B	POST					
4	N PAK AMS	1.5 qt/a		B	POST					
5	Acuron	1.5 qt/a		A	PRE		0 a	65 d	75 bcd	85 bc
5	Acuron	1.5 qt/a		B	POST					
5	NIS	4.8 oz/a		B	POST					
5	N PAK AMS	1.5 qt/a		B	POST					
6	Acuron	2 qt/a		B	POST		0 a	0 e	0 e	0 d
6	NIS	4.8 oz/a		B	POST					
6	N PAK AMS	1.5 qt/a		B	POST					
7	Acuron	2 qt/a		A	PRE		0 a	71 cd	70 cd	86 bc
7	Touchdown Total	32 oz/a		B	POST					
7	N PAK AMS	1.5 qt/a		B	POST					

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 Could not calculate LSD (% mean diff) for columns 1,24,30,31 because error mean square = 0.

Pest Type	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX		
BBCH Scale	BCOR		
Crop Scientific Name	Zea mays		
Crop Name	Corn		
Rating Date	5-27-2015	5-27-2015	5-27-2015
Rating Type	PHYGEN	CONTRO	CONTRO
Rating Unit	%	%	%
Number of Subsamples	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23
Trt-Eval Interval	AT POST	AT POST	AT POST
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1
Number of Decimals	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	Appl Description	1	2	3	4
8	Bicep II Magnum	1.5 qt/a		A	PRE	0 a	71 cd	64 d	86 bc
8	Halex GT	3.6 pt/a		B	POST				
8	AAtrex	1 pt/a		B	POST				
8	NIS	4.8 oz/a		B	POST				
8	N PAK AMS	1.5 qt/a		B	POST				
9	Instigate 6 oz					0 a	71 cd	71 cd	94 ab
9	Rimsulfuron	1 oz/a		A	PRE				
9	Mesotrione	5 oz/a		A	PRE				
9	Cinch ATZ	3 pt/a		A	PRE				
9	Realm Q 4 oz								
9	Rimsulfuron	1.2 oz/a		B	POST				
9	Mesotrione	2.5 oz/a		B	POST				
9	Isoxadifen-ethyl	0.3 oz/a		B	POST				
9	Abundit Extra	32 oz/a		B	POST				
9	N PAK AMS	1.5 qt/a		B	POST				
10	Instigate 6 oz					0 a	73 cd	79 a-d	100 a
10	Rimsulfuron	1 oz/a		A	PRE				
10	Mesotrione	5 oz/a		A	PRE				
10	Cinch ATZ	3 pt/a		A	PRE				
10	Realm Q 4 oz								
10	Rimsulfuron	1.2 oz/a		B	POST				
10	Mesotrione	2.5 oz/a		B	POST				
10	Isoxadifen-ethyl	0.3 oz/a		B	POST				
10	Atrazine	1 qt/a		B	POST				
10	COC	0.6 qt/a		B	POST				
11	BreakFree ATZ	1.5 pt/a		A	PRE	0 a	78 bc	71 cd	79 c
11	Revulin Q 3.4 oz								
11	Nicosulfuron	0.65 oz/a		B	POST				
11	Mesotrione	2.5 oz/a		B	POST				
11	Isoxadifen-ethyl	0.245 oz/a		B	POST				
11	Atrazine	1 qt/a		B	POST				
11	COC	0.6 qt/a		B	POST				
12	Instigate 6 oz					0 a	70 cd	70 cd	94 ab
12	Rimsulfuron	1 oz/a		A	PRE				
12	Mesotrione	5 oz/a		A	PRE				
12	Cinch ATZ	3 pt/a		A	PRE				
12	Abundit Extra	32 oz/a		B	POST				
12	N PAK AMS	1.5 qt/a		B	POST				
13	Instigate 6 oz					0 a	71 cd	71 cd	100 a
13	Rimsulfuron	1 oz/a		A	PRE				
13	Mesotrione	5 oz/a		A	PRE				
13	Cinch ATZ	3 pt/a		A	PRE				
14	Corvus	5.6 oz/a		A	PRE	0 a	74 cd	81 abc	100 a
14	Atrazine	1.5 qt/a		A	PRE				

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Pest Type		W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Common lambsqu>
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	5-27-2015	5-27-2015	5-27-2015	5-27-2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	23 23
Trt-Eval Interval	AT POST	AT POST	AT POST	AT POST
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	24 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	18 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Other Rate	Other Rate	Appl Unit	Appl Code	Description	1	2	3	4
15 Anthem ATZ	32 oz/a		A	PRE		0 a	65 d	68 cd	78 c
16 UTC						0 a	0 e	0 e	0 d
LSD P=.05						.	9.5	15.4	12.9
Standard Deviation						0.0	6.7	10.8	9.1
CV						0.0	10.29	16.48	11.21
Grand Mean						0.0	64.8	65.8	80.8
Bartlett's X2						0.0	29.872	20.034	12.815
P(Bartlett's X2)						.	0.003*	0.045*	0.118
Skewness						.	-1.6919*	-1.3707*	-1.8016*
Kurtosis						.	2.2403*	1.5731*	1.962*
Replicate F						0.000	1.464	2.807	6.720
Replicate Prob(F)						1.0000	0.2372	0.0503	0.0008
Treatment F						0.000	62.547	24.368	51.394
Treatment Prob(F)						1.0000	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMARE	ABUTH	HIBTR		
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>		
Pest Name	Redroot pigweed	velvetleaf	Venice mallow		
Crop Code				ZEAMX	ZEAMX
BBCH Scale				BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays
Crop Name				Corn	Corn
Rating Date	5-27-2015	5-27-2015	5-27-2015	6-3-2015	6-3-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC	PHYCHL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	30 6	30 6
Trt-Eval Interval	AT POST	AT POST	AT POST	6 DA-B	6 DA-B
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Description	5	6	7	8	9
1	Keystone NXT	2.5 qt/a		A	PRE	100 a	100 a	100 a	0 c	0 c
1	Hornet	3 oz/a		A	PRE					
1	Durango DMA	1 qt/a		B	POST					
1	N PAK AMS	1.5 qt/a		B	POST					
2	Surestart II	2.5 pt/a		A	PRE	100 a	100 a	100 a	0 c	0 c
2	Atrazine	1 qt/a		A	PRE					
2	Durango DMA	1 qt/a		B	POST					
2	N PAK AMS	1.5 qt/a		B	POST					
3	GF-3471	2.5 qt/a		A	PRE	100 a	100 a	100 a	0 c	0 c
3	Atrazine	1 qt/a		A	PRE					
3	Durango DMA	1 qt/a		B	POST					
3	N PAK AMS	1.5 qt/a		B	POST					
4	Acuron	1.5 qt/a		A	PRE	100 a	93 a	100 a	14 a	0 c
4	Halex GT	3.6 pt/a		B	POST					
4	AAtrex	1 pt/a		B	POST					
4	NIS	4.8 oz/a		B	POST					
4	N PAK AMS	1.5 qt/a		B	POST					
5	Acuron	1.5 qt/a		A	PRE	100 a	100 a	93 a	0 c	0 c
5	Acuron	1.5 qt/a		B	POST					
5	NIS	4.8 oz/a		B	POST					
5	N PAK AMS	1.5 qt/a		B	POST					
6	Acuron	2 qt/a		B	POST	0 c	0 c	0 b	0 c	0 c
6	NIS	4.8 oz/a		B	POST					
6	N PAK AMS	1.5 qt/a		B	POST					
7	Acuron	2 qt/a		A	PRE	100 a	100 a	100 a	0 c	0 c
7	Touchdown Total	32 oz/a		B	POST					
7	N PAK AMS	1.5 qt/a		B	POST					

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Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMARE	ABUTH	HIBTR		
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>		
Pest Name	Redroot pigweed	velvetleaf	Venice mallow		
Crop Code				ZEAMX	ZEAMX
BBCH Scale				BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays
Crop Name				Corn	Corn
Rating Date	5-27-2015	5-27-2015	5-27-2015	6-3-2015	6-3-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC	PHYCHL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	30 6	30 6
Trt-Eval Interval	AT POST	AT POST	AT POST	6 DA-B	6 DA-B
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0	0	0

Trt	Treatment	Other	Other	Appl	Appl	5	6	7	8	9
No.	Name	Rate	Rate	Unit	Code	Description				
8	Bicep II Magnum	1.5 qt/a		A		PRE	100 a	100 a	93 a	0 c
8	Halex GT	3.6 pt/a		B		POST				1 c
8	AAtrex	1 pt/a		B		POST				
8	NIS	4.8 oz/a		B		POST				
8	N PAK AMS	1.5 qt/a		B		POST				
9	Instigate 6 oz						100 a	100 a	100 a	0 c
9	Rimsulfuron	1 oz/a		A		PRE				11 a
9	Mesotrione	5 oz/a		A		PRE				
9	Cinch ATZ	3 pt/a		A		PRE				
9	Realm Q 4 oz									
9	Rimsulfuron	1.2 oz/a		B		POST				
9	Mesotrione	2.5 oz/a		B		POST				
9	Isoxadifen-ethyl	0.3 oz/a		B		POST				
9	Abundit Extra	32 oz/a		B		POST				
9	N PAK AMS	1.5 qt/a		B		POST				
10	Instigate 6 oz						100 a	100 a	100 a	1 b
10	Rimsulfuron	1 oz/a		A		PRE				5 b
10	Mesotrione	5 oz/a		A		PRE				
10	Cinch ATZ	3 pt/a		A		PRE				
10	Realm Q 4 oz									
10	Rimsulfuron	1.2 oz/a		B		POST				
10	Mesotrione	2.5 oz/a		B		POST				
10	Isoxadifen-ethyl	0.3 oz/a		B		POST				
10	Atrazine	1 qt/a		B		POST				
10	COC	0.6 qt/a		B		POST				
11	BreakFree ATZ	1.5 pt/a		A		PRE	100 a	81 b	93 a	0 c
11	Revulin Q 3.4 oz									0 c
11	Nicosulfuron	0.65 oz/a		B		POST				
11	Mesotrione	2.5 oz/a		B		POST				
11	Isoxadifen-ethyl	0.245 oz/a		B		POST				
11	Atrazine	1 qt/a		B		POST				
11	COC	0.6 qt/a		B		POST				
12	Instigate 6 oz						100 a	100 a	100 a	0 c
12	Rimsulfuron	1 oz/a		A		PRE				1 c
12	Mesotrione	5 oz/a		A		PRE				
12	Cinch ATZ	3 pt/a		A		PRE				
12	Abundit Extra	32 oz/a		B		POST				
12	N PAK AMS	1.5 qt/a		B		POST				
13	Instigate 6 oz						100 a	100 a	100 a	0 c
13	Rimsulfuron	1 oz/a		A		PRE				0 c
13	Mesotrione	5 oz/a		A		PRE				
13	Cinch ATZ	3 pt/a		A		PRE				
14	Corvus	5.6 oz/a		A		PRE	100 a	100 a	100 a	0 c
14	Atrazine	1.5 qt/a		A		PRE				0 c

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Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMARE	ABUTH	HIBTR		
Pest Scientific Name	Amaranthus ret>	Abutilon theop>	Hibiscus trion>		
Pest Name	Redroot pigweed	velvetleaf	Venice mallow		
Crop Code				ZEAMX	ZEAMX
BBCH Scale				BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays
Crop Name				Corn	Corn
Rating Date	5-27-2015	5-27-2015	5-27-2015	6-3-2015	6-3-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYNEC	PHYCHL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Days After First/Last Applic.	23 23	23 23	23 23	30 6	30 6
Trt-Eval Interval	AT POST	AT POST	AT POST	6 DA-B	6 DA-B
Plant-Eval Interval	24 DP-1	24 DP-1	24 DP-1	31 DP-1	31 DP-1
Days After Emergence	18 DE-1	18 DE-1	18 DE-1	25 DE-1	25 DE-1
Number of Decimals	0	0	0	0	0
Trt Treatment	Other	Other	Appl	Appl	
No. Name	Rate	Rate	Unit	Code	Description
15 Anthem ATZ	32 oz/a		A	PRE	
					5
					6
					7
					8
					9
16 UTC					
LSD P=.05	6.2	8.8	9.2	1.0	2.1
Standard Deviation	4.3	6.2	6.4	0.7	1.5
CV	5.0	7.22	7.49	74.5	128.24
Grand Mean	86.6	85.3	86.1	1.0	1.2
Bartlett's X2	0.0	27.686	0.0	0.743	4.422
P(Bartlett's X2)	.	0.001*	1.00	0.389	0.352
Skewness	-2.23*	-2.1359*	-2.1858*	3.599*	2.9276*
Kurtosis	3.1867*	2.892*	3.041*	11.6687*	8.1154*
Replicate F	1.000	1.445	1.241	1.320	0.768
Replicate Prob(F)	0.4016	0.2422	0.3062	0.2796	0.5182
Treatment F	246.556	119.635	109.551	97.080	15.538
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

Pest Type		W Weed	W Weed	W Weed
Pest Code		AMBTR	SETFA	IPOHE
Pest Scientific Name		Ambrosia trifi>	Setaria faberi	Ipomoea heder>
Pest Name		Giant ragweed	Giant foxtail	Ivyleaf mornin>
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	6-10-2015	6-10-2015	6-10-2015	6-10-2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	37 13	37 13	37 13	37 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	10	11	12	13
1	Keystone NXT	2.5 qt/a		A	PRE		1 bcd	90 ab	99 a	98 a
1	Hornet	3 oz/a		A	PRE					
1	Durango DMA	1 qt/a		B	POST					
1	N PAK AMS	1.5 qt/a		B	POST					
2	Surestart II	2.5 pt/a		A	PRE		1 bcd	86 b	96 a	100 a
2	Atrazine	1 qt/a		A	PRE					
2	Durango DMA	1 qt/a		B	POST					
2	N PAK AMS	1.5 qt/a		B	POST					
3	GF-3471	2.5 qt/a		A	PRE		1 bcd	89 ab	100 a	96 a
3	Atrazine	1 qt/a		A	PRE					
3	Durango DMA	1 qt/a		B	POST					
3	N PAK AMS	1.5 qt/a		B	POST					
4	Acuron	1.5 qt/a		A	PRE		8 a	94 ab	100 a	100 a
4	Halex GT	3.6 pt/a		B	POST					
4	AAtrex	1 pt/a		B	POST					
4	NIS	4.8 oz/a		B	POST					
4	N PAK AMS	1.5 qt/a		B	POST					
5	Acuron	1.5 qt/a		A	PRE		1 cd	93 ab	75 c	100 a
5	Acuron	1.5 qt/a		B	POST					
5	NIS	4.8 oz/a		B	POST					
5	N PAK AMS	1.5 qt/a		B	POST					
6	Acuron	2 qt/a		B	POST		2 b	99 a	48 e	100 a
6	NIS	4.8 oz/a		B	POST					
6	N PAK AMS	1.5 qt/a		B	POST					
7	Acuron	2 qt/a		A	PRE		1 cd	88 ab	99 a	100 a
7	Touchdown Total	32 oz/a		B	POST					
7	N PAK AMS	1.5 qt/a		B	POST					

Pest Type		W Weed	W Weed	W Weed
Pest Code		AMBTR	SETFA	IPOHE
Pest Scientific Name		Ambrosia trifida	Setaria faberii	Ipomoea hederacea
Pest Name		Giant ragweed	Giant foxtail	Ivyleaf morning
Crop Code	ZEAMX			
BBCH Scale	BCOR			
Crop Scientific Name	Zea mays			
Crop Name	Corn			
Rating Date	6-10-2015	6-10-2015	6-10-2015	6-10-2015
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	37 13	37 13	37 13	37 13
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	32 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	Appl Description	10	11	12	13
8	Bicep II Magnum	1.5 qt/a		A	PRE	1 cd	91 ab	100 a	100 a
8	Halex GT	3.6 pt/a		B	POST				
8	AAtrex	1 pt/a		B	POST				
8	NIS	4.8 oz/a		B	POST				
8	N PAK AMS	1.5 qt/a		B	POST				
9	Instigate 6 oz					2 bc	88 ab	100 a	98 a
9	Rimsulfuron	1 oz/a		A	PRE				
9	Mesotrione	5 oz/a		A	PRE				
9	Cinch ATZ	3 pt/a		A	PRE				
9	Realm Q 4 oz								
9	Rimsulfuron	1.2 oz/a		B	POST				
9	Mesotrione	2.5 oz/a		B	POST				
9	Isoxadifen-ethyl	0.3 oz/a		B	POST				
9	Abundit Extra	32 oz/a		B	POST				
9	N PAK AMS	1.5 qt/a		B	POST				
10	Instigate 6 oz					1 bcd	93 ab	86 b	98 a
10	Rimsulfuron	1 oz/a		A	PRE				
10	Mesotrione	5 oz/a		A	PRE				
10	Cinch ATZ	3 pt/a		A	PRE				
10	Realm Q 4 oz								
10	Rimsulfuron	1.2 oz/a		B	POST				
10	Mesotrione	2.5 oz/a		B	POST				
10	Isoxadifen-ethyl	0.3 oz/a		B	POST				
10	Atrazine	1 qt/a		B	POST				
10	COC	0.6 qt/a		B	POST				
11	BreakFree ATZ	1.5 pt/a		A	PRE	1 bcd	93 ab	91 ab	100 a
11	Revulin Q 3.4 oz								
11	Nicosulfuron	0.65 oz/a		B	POST				
11	Mesotrione	2.5 oz/a		B	POST				
11	Isoxadifen-ethyl	0.245 oz/a		B	POST				
11	Atrazine	1 qt/a		B	POST				
11	COC	0.6 qt/a		B	POST				
12	Instigate 6 oz					2 bc	83 bc	99 a	95 a
12	Rimsulfuron	1 oz/a		A	PRE				
12	Mesotrione	5 oz/a		A	PRE				
12	Cinch ATZ	3 pt/a		A	PRE				
12	Abundit Extra	32 oz/a		B	POST				
12	N PAK AMS	1.5 qt/a		B	POST				
13	Instigate 6 oz					1 d	60 d	61 d	85 a
13	Rimsulfuron	1 oz/a		A	PRE				
13	Mesotrione	5 oz/a		A	PRE				
13	Cinch ATZ	3 pt/a		A	PRE				
14	Corvus	5.6 oz/a		A	PRE	1 d	74 c	70 cd	88 a
14	Atrazine	1.5 qt/a		A	PRE				

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Pest Type				W Weed	W Weed	W Weed
Pest Code				AMBTR	SETFA	IPOHE
Pest Scientific Name				Ambrosia trifida	Setaria faberii	Ipomoea hederacea
Pest Name				Giant ragweed	Giant foxtail	Ivyleaf morning
Crop Code				ZEAMX		
BBCH Scale				BCOR		
Crop Scientific Name				Zea mays		
Crop Name				Corn		
Rating Date				6-10-2015	6-10-2015	6-10-2015
Rating Type				PHYGEN	CONTRO	CONTRO
Rating Unit				%	%	%
Number of Subsamples				1	1	1
Days After First/Last Applic.				37 13	37 13	37 13
Trt-Eval Interval				13 DA-B	13 DA-B	13 DA-B
Plant-Eval Interval				38 DP-1	38 DP-1	38 DP-1
Days After Emergence				32 DE-1	32 DE-1	32 DE-1
Number of Decimals				0	0	0
Trt Treatment	Other	Other	Appl	Appl		
No. Name	Rate	Rate	Unit	Code	Description	
15 Anthem ATZ	32 oz/a		A	PRE	1 cd	45 e
16 UTC					0 e	0 f
LSD P=.05					0.6	11.7
Standard Deviation					0.4	8.2
CV					26.1	10.45
Grand Mean					1.5	78.9
Bartlett's X2					0.197	12.519
P(Bartlett's X2)					1.00	0.565
Skewness					3.155*	-1.9256*
Kurtosis					9.5604*	3.4305*
Replicate F					1.696	3.438
Replicate Prob(F)					0.1814	0.0246
Treatment F					78.443	37.303
Treatment Prob(F)					0.0001	0.0001
						40 e
						90 a
						0 b
						15.6
						11.0
						12.13
						90.4
						35.458
						0.001*
						-2.917*
						7.44*
						2.689
						0.0575
						69.251
						20.100
						0.0001

Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	ABUTH	AMARE	
Pest Scientific Name	Chenopodium al-	Abutilon theop-	Amaranthus ret-	
Pest Name	Common lambsqu-	velvetleaf	Redroot pigweed	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	6-10-2015	6-10-2015	6-10-2015	6-29-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	37 13	37 13	37 13	56 32
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	32 DA-B
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	57 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	51 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	14	15	16	17
1	Keystone NXT	2.5 qt/a		A	PRE		100 a	100 a	100 a	0 b
1	Hornet	3 oz/a		A	PRE					
1	Durango DMA	1 qt/a		B	POST					
1	N PAK AMS	1.5 qt/a		B	POST					
2	Surestart II	2.5 pt/a		A	PRE		100 a	100 a	100 a	0 b
2	Atrazine	1 qt/a		A	PRE					
2	Durango DMA	1 qt/a		B	POST					
2	N PAK AMS	1.5 qt/a		B	POST					
3	GF-3471	2.5 qt/a		A	PRE		100 a	100 a	100 a	0 b
3	Atrazine	1 qt/a		A	PRE					
3	Durango DMA	1 qt/a		B	POST					
3	N PAK AMS	1.5 qt/a		B	POST					
4	Acuron	1.5 qt/a		A	PRE		100 a	100 a	100 a	1 a
4	Halex GT	3.6 pt/a		B	POST					
4	AAtrex	1 pt/a		B	POST					
4	NIS	4.8 oz/a		B	POST					
4	N PAK AMS	1.5 qt/a		B	POST					
5	Acuron	1.5 qt/a		A	PRE		100 a	100 a	100 a	0 b
5	Acuron	1.5 qt/a		B	POST					
5	NIS	4.8 oz/a		B	POST					
5	N PAK AMS	1.5 qt/a		B	POST					
6	Acuron	2 qt/a		B	POST		100 a	100 a	100 a	0 b
6	NIS	4.8 oz/a		B	POST					
6	N PAK AMS	1.5 qt/a		B	POST					
7	Acuron	2 qt/a		A	PRE		100 a	100 a	100 a	0 b
7	Touchdown Total	32 oz/a		B	POST					
7	N PAK AMS	1.5 qt/a		B	POST					

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	ABUTH	AMARE	
Pest Scientific Name	Chenopodium al-	Abutilon theop-	Amaranthus ret-	
Pest Name	Common lambsqu-	velvetleaf	Redroot pigweed	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	6-10-2015	6-10-2015	6-10-2015	6-29-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	37 13	37 13	37 13	56 32
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	32 DA-B
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	57 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	51 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	Appl Description	14	15	16	17
8	Bicep II Magnum	1.5 qt/a		A	PRE	100 a	100 a	100 a	0 b
8	Halex GT	3.6 pt/a		B	POST				
8	AAtrex	1 pt/a		B	POST				
8	NIS	4.8 oz/a		B	POST				
8	N PAK AMS	1.5 qt/a		B	POST				
9	Instigate 6 oz					100 a	100 a	100 a	0 b
9	Rimsulfuron	1 oz/a		A	PRE				
9	Mesotrione	5 oz/a		A	PRE				
9	Cinch ATZ	3 pt/a		A	PRE				
9	Realm Q 4 oz								
9	Rimsulfuron	1.2 oz/a		B	POST				
9	Mesotrione	2.5 oz/a		B	POST				
9	Isoxadifen-ethyl	0.3 oz/a		B	POST				
9	Abundit Extra	32 oz/a		B	POST				
9	N PAK AMS	1.5 qt/a		B	POST				
10	Instigate 6 oz					100 a	100 a	100 a	0 b
10	Rimsulfuron	1 oz/a		A	PRE				
10	Mesotrione	5 oz/a		A	PRE				
10	Cinch ATZ	3 pt/a		A	PRE				
10	Realm Q 4 oz								
10	Rimsulfuron	1.2 oz/a		B	POST				
10	Mesotrione	2.5 oz/a		B	POST				
10	Isoxadifen-ethyl	0.3 oz/a		B	POST				
10	Atrazine	1 qt/a		B	POST				
10	COC	0.6 qt/a		B	POST				
11	BreakFree ATZ	1.5 pt/a		A	PRE	100 a	100 a	100 a	0 b
11	Revulin Q 3.4 oz								
11	Nicosulfuron	0.65 oz/a		B	POST				
11	Mesotrione	2.5 oz/a		B	POST				
11	Isoxadifen-ethyl	0.245 oz/a		B	POST				
11	Atrazine	1 qt/a		B	POST				
11	COC	0.6 qt/a		B	POST				
12	Instigate 6 oz					100 a	100 a	100 a	0 b
12	Rimsulfuron	1 oz/a		A	PRE				
12	Mesotrione	5 oz/a		A	PRE				
12	Cinch ATZ	3 pt/a		A	PRE				
12	Abundit Extra	32 oz/a		B	POST				
12	N PAK AMS	1.5 qt/a		B	POST				
13	Instigate 6 oz					96 a	100 a	100 a	0 b
13	Rimsulfuron	1 oz/a		A	PRE				
13	Mesotrione	5 oz/a		A	PRE				
13	Cinch ATZ	3 pt/a		A	PRE				
14	Corvus	5.6 oz/a		A	PRE	100 a	100 a	100 a	0 b
14	Atrazine	1.5 qt/a		A	PRE				

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Pest Type	W Weed	W Weed	W Weed	
Pest Code	CHEAL	ABUTH	AMARE	
Pest Scientific Name	Chenopodium al>	Abutilon theop>	Amaranthus ret>	
Pest Name	Common lambsqu>	velvetleaf	Redroot pigweed	
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Rating Date	6-10-2015	6-10-2015	6-10-2015	6-29-2015
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	37 13	37 13	37 13	56 32
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	32 DA-B
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	57 DP-1
Days After Emergence	32 DE-1	32 DE-1	32 DE-1	51 DE-1
Number of Decimals	0	0	0	0
Trt Treatment	Other Other	Appl Appl		
No. Name	Rate Rate	Unit Code	Description	
15 Anthem ATZ	32 oz/a	A	PRE	
				14
				15
				16
				17
16 UTC				
LSD P=.05	9.4	8.5	1.8	0.3
Standard Deviation	6.6	6.0	1.3	0.2
CV	7.28	6.46	1.34	510.63
Grand Mean	91.2	92.6	93.6	0.0
Bartlett's X2	6.194	0.0	0.0	0.0
P(Bartlett's X2)	0.013*	.	.	.
Skewness	-2.9827*	-3.3612*	-3.6866*	6.3561*
Kurtosis	7.7044*	9.9934*	12.0031*	41.9787*
Replicate F	1.240	1.000	1.000	1.000
Replicate Prob(F)	0.3064	0.4016	0.4016	0.4016
Treatment F	61.654	70.527	1595.667	2.455
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0103

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	IPOHE	CHEAL
Pest Scientific Name	Ambrosia trifida	Setaria faberii	Ipomoea hederacea	Chenopodium album
Pest Name	Giant ragweed	Giant foxtail	Ipomoea leafy	Common lambsquarters
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-29-2015	6-29-2015	6-29-2015	6-29-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	56 32	56 32	56 32	56 32
Trt-Eval Interval	32 DA-B	32 DA-B	32 DA-B	32 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	18	19	20	21
1	Keystone NXT	2.5 qt/a		A	PRE		85 abc	93 a	94 abc	100 a
1	Hornet	3 oz/a		A	PRE					
1	Durango DMA	1 qt/a		B	POST					
1	N PAK AMS	1.5 qt/a		B	POST					
2	Surestart II	2.5 pt/a		A	PRE		84 bc	83 b	96 ab	100 a
2	Atrazine	1 qt/a		A	PRE					
2	Durango DMA	1 qt/a		B	POST					
2	N PAK AMS	1.5 qt/a		B	POST					
3	GF-3471	2.5 qt/a		A	PRE		89 ab	88 ab	94 abc	99 a
3	Atrazine	1 qt/a		A	PRE					
3	Durango DMA	1 qt/a		B	POST					
3	N PAK AMS	1.5 qt/a		B	POST					
4	Acuron	1.5 qt/a		A	PRE		90 ab	95 a	96 ab	100 a
4	Halex GT	3.6 pt/a		B	POST					
4	AAtrex	1 pt/a		B	POST					
4	NIS	4.8 oz/a		B	POST					
4	N PAK AMS	1.5 qt/a		B	POST					
5	Acuron	1.5 qt/a		A	PRE		88 ab	69 c	95 abc	100 a
5	Acuron	1.5 qt/a		B	POST					
5	NIS	4.8 oz/a		B	POST					
5	N PAK AMS	1.5 qt/a		B	POST					
6	Acuron	2 qt/a		B	POST		95 a	40 e	99 a	100 a
6	NIS	4.8 oz/a		B	POST					
6	N PAK AMS	1.5 qt/a		B	POST					
7	Acuron	2 qt/a		A	PRE		86 ab	88 ab	100 a	99 a
7	Touchdown Total	32 oz/a		B	POST					
7	N PAK AMS	1.5 qt/a		B	POST					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	IPOHE	CHEAL
Pest Scientific Name	Ambrosia trifida	Setaria faberii	Ipomoea hederacea	Chenopodium album
Pest Name	Giant ragweed	Giant foxtail	Ivyleaf mornin	Common lambsqu
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-29-2015	6-29-2015	6-29-2015	6-29-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	56 32	56 32	56 32	56 32
Trt-Eval Interval	32 DA-B	32 DA-B	32 DA-B	32 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Other Rate	Other Rate	Unit	Appl Code	Appl Description	18	19	20	21
8 Bicep II Magnum	1.5 qt/a			A	PRE	83 bc	90 ab	100 a	99 a
8 Halex GT	3.6 pt/a			B	POST				
8 AAtrex	1 pt/a			B	POST				
8 NIS	4.8 oz/a			B	POST				
8 N PAK AMS	1.5 qt/a			B	POST				
9 Instigate 6 oz						86 ab	88 ab	98 ab	100 a
9 Rimsulfuron	1 oz/a			A	PRE				
9 Mesotrione	5 oz/a			A	PRE				
9 Cinch ATZ	3 pt/a			A	PRE				
9 Realm Q 4 oz									
9 Rimsulfuron	1.2 oz/a			B	POST				
9 Mesotrione	2.5 oz/a			B	POST				
9 Isoxadifen-ethyl	0.3 oz/a			B	POST				
9 Abundit Extra	32 oz/a			B	POST				
9 N PAK AMS	1.5 qt/a			B	POST				
10 Instigate 6 oz						88 ab	83 b	85 abc	100 a
10 Rimsulfuron	1 oz/a			A	PRE				
10 Mesotrione	5 oz/a			A	PRE				
10 Cinch ATZ	3 pt/a			A	PRE				
10 Realm Q 4 oz									
10 Rimsulfuron	1.2 oz/a			B	POST				
10 Mesotrione	2.5 oz/a			B	POST				
10 Isoxadifen-ethyl	0.3 oz/a			B	POST				
10 Atrazine	1 qt/a			B	POST				
10 COC	0.6 qt/a			B	POST				
11 BreakFree ATZ	1.5 pt/a			A	PRE	90 ab	88 ab	98 ab	100 a
11 Revulin Q 3.4 oz									
11 Nicosulfuron	0.65 oz/a			B	POST				
11 Mesotrione	2.5 oz/a			B	POST				
11 Isoxadifen-ethyl	0.245 oz/a			B	POST				
11 Atrazine	1 qt/a			B	POST				
11 COC	0.6 qt/a			B	POST				
12 Instigate 6 oz						75 cd	81 b	94 abc	100 a
12 Rimsulfuron	1 oz/a			A	PRE				
12 Mesotrione	5 oz/a			A	PRE				
12 Cinch ATZ	3 pt/a			A	PRE				
12 Abundit Extra	32 oz/a			B	POST				
12 N PAK AMS	1.5 qt/a			B	POST				
13 Instigate 6 oz						65 d	50 d	83 bc	85 b
13 Rimsulfuron	1 oz/a			A	PRE				
13 Mesotrione	5 oz/a			A	PRE				
13 Cinch ATZ	3 pt/a			A	PRE				
14 Corvus	5.6 oz/a			A	PRE	69 d	60 c	88 abc	100 a
14 Atrazine	1.5 qt/a			A	PRE				

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	IPOHE	CHEAL
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Ipomoea heder>	Chenopodium al>
Pest Name	Giant ragweed	Giant foxtail	Ivyleaf mornin>	Common lambsqu>
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	6-29-2015	6-29-2015	6-29-2015	6-29-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	56 32	56 32	56 32	56 32
Trt-Eval Interval	32 DA-B	32 DA-B	32 DA-B	32 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	57 DP-1	57 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1
Number of Decimals	0	0	0	0

Trt Treatment	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	18	19	20	21
15 Anthem ATZ	32 oz/a		A	PRE		45 e	48 de	80 c	70 c
16 UTC						0 f	0 f	0 d	0 d
LSD P=.05						10.0	9.5	16.0	8.4
Standard Deviation						7.0	6.7	11.2	5.9
CV						9.25	9.33	12.82	6.52
Grand Mean						76.0	71.3	87.3	90.7
Bartlett's X2						10.787	21.102	30.371	20.653
P(Bartlett's X2)						0.703	0.071	0.002*	0.001*
Skewness						-1.9259*	-1.4109*	-2.5986*	-3.0292*
Kurtosis						3.7274*	1.4181*	6.1978*	8.2889*
Replicate F						11.432	1.107	4.297	1.739
Replicate Prob(F)						0.0001	0.3563	0.0095	0.1726
Treatment F						45.786	60.151	18.512	74.316
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	AMARE	AMBTR	SETFA
Pest Scientific Name	Abutilon theop>	Amaranthus ret>	Ambrosia trifi>	Setaria faberi
Pest Name	velvetleaf	Redroot pigweed	Giant ragweed	Giant foxtail
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Scientific Name			Zea mays	
Crop Name			Corn	
Rating Date	6-29-2015	6-29-2015	7-23-2015	7-23-2015
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	56 32	56 32	80 56	80 56
Trt-Eval Interval	32 DA-B	32 DA-B	56 DA-B	56 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	81 DP-1	81 DP-1
Days After Emergence	51 DE-1	51 DE-1	75 DE-1	75 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	22	23	24	25	26
1	Keystone NXT	2.5 qt/a		A	PRE		100 a	100 a	0 a	83 bcd	91 a
	1 Hornet	3 oz/a		A	PRE						
	1 Durango DMA	1 qt/a		B	POST						
	1 N PAK AMS	1.5 qt/a		B	POST						
2	Surestart II	2.5 pt/a		A	PRE		98 ab	100 a	0 a	78 cd	78 bcd
	2 Atrazine	1 qt/a		A	PRE						
	2 Durango DMA	1 qt/a		B	POST						
	2 N PAK AMS	1.5 qt/a		B	POST						
3	GF-3471	2.5 qt/a		A	PRE		100 a	100 a	0 a	84 bc	88 ab
	3 Atrazine	1 qt/a		A	PRE						
	3 Durango DMA	1 qt/a		B	POST						
	3 N PAK AMS	1.5 qt/a		B	POST						
4	Acuron	1.5 qt/a		A	PRE		100 a	100 a	0 a	91 ab	95 a
	4 Halex GT	3.6 pt/a		B	POST						
	4 AAtrex	1 pt/a		B	POST						
	4 NIS	4.8 oz/a		B	POST						
	4 N PAK AMS	1.5 qt/a		B	POST						
5	Acuron	1.5 qt/a		A	PRE		100 a	100 a	0 a	94 ab	60 ef
	5 Acuron	1.5 qt/a		B	POST						
	5 NIS	4.8 oz/a		B	POST						
	5 N PAK AMS	1.5 qt/a		B	POST						
6	Acuron	2 qt/a		B	POST		100 a	100 a	0 a	100 a	35 h
	6 NIS	4.8 oz/a		B	POST						
	6 N PAK AMS	1.5 qt/a		B	POST						
7	Acuron	2 qt/a		A	PRE		100 a	99 b	0 a	89 abc	85 abc
	7 Touchdown Total	32 oz/a		B	POST						
	7 N PAK AMS	1.5 qt/a		B	POST						

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	AMARE	AMBTR	SETFA
Pest Scientific Name	Abutilon theop>	Amaranthus ret>	Ambrosia trifi>	Setaria faberi
Pest Name	velvetleaf	Redroot pigweed	Giant ragweed	Giant foxtail
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Scientific Name			Zea mays	
Crop Name			Corn	
Rating Date	6-29-2015	6-29-2015	7-23-2015	7-23-2015
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	56 32	56 32	80 56	80 56
Trt-Eval Interval	32 DA-B	32 DA-B	56 DA-B	56 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	81 DP-1	81 DP-1
Days After Emergence	51 DE-1	51 DE-1	75 DE-1	75 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	Appl Description	22	23	24	25	26
8	Bicep II Magnum	1.5 qt/a		A	PRE	96 ab	100 a	0 a	91 ab	90 a
8	Halex GT	3.6 pt/a		B	POST					
8	AAtrex	1 pt/a		B	POST					
8	NIS	4.8 oz/a		B	POST					
8	N PAK AMS	1.5 qt/a		B	POST					
9	Instigate 6 oz					100 a	100 a	0 a	91 ab	86 abc
9	Rimsulfuron	1 oz/a		A	PRE					
9	Mesotrione	5 oz/a		A	PRE					
9	Cinch ATZ	3 pt/a		A	PRE					
9	Realm Q 4 oz									
9	Rimsulfuron	1.2 oz/a		B	POST					
9	Mesotrione	2.5 oz/a		B	POST					
9	Isoxadifen-ethyl	0.3 oz/a		B	POST					
9	Abundit Extra	32 oz/a		B	POST					
9	N PAK AMS	1.5 qt/a		B	POST					
10	Instigate 6 oz					100 a	100 a	0 a	94 ab	76 cd
10	Rimsulfuron	1 oz/a		A	PRE					
10	Mesotrione	5 oz/a		A	PRE					
10	Cinch ATZ	3 pt/a		A	PRE					
10	Realm Q 4 oz									
10	Rimsulfuron	1.2 oz/a		B	POST					
10	Mesotrione	2.5 oz/a		B	POST					
10	Isoxadifen-ethyl	0.3 oz/a		B	POST					
10	Atrazine	1 qt/a		B	POST					
10	COC	0.6 qt/a		B	POST					
11	BreakFree ATZ	1.5 pt/a		A	PRE	98 ab	100 a	0 a	91 ab	86 abc
11	Revulin Q 3.4 oz									
11	Nicosulfuron	0.65 oz/a		B	POST					
11	Mesotrione	2.5 oz/a		B	POST					
11	Isoxadifen-ethyl	0.245 oz/a		B	POST					
11	Atrazine	1 qt/a		B	POST					
11	COC	0.6 qt/a		B	POST					
12	Instigate 6 oz					100 a	100 a	0 a	83 bcd	74 d
12	Rimsulfuron	1 oz/a		A	PRE					
12	Mesotrione	5 oz/a		A	PRE					
12	Cinch ATZ	3 pt/a		A	PRE					
12	Abundit Extra	32 oz/a		B	POST					
12	N PAK AMS	1.5 qt/a		B	POST					
13	Instigate 6 oz					100 a	100 a	0 a	60 ef	50 fg
13	Rimsulfuron	1 oz/a		A	PRE					
13	Mesotrione	5 oz/a		A	PRE					
13	Cinch ATZ	3 pt/a		A	PRE					
14	Corvus	5.6 oz/a		A	PRE	100 a	100 a	0 a	71 de	61 e
14	Atrazine	1.5 qt/a		A	PRE					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	AMARE	AMBTR	SETFA
Pest Scientific Name	Abutilon theop>	Amaranthus ret>	Ambrosia trifi>	Setaria faberi
Pest Name	velvetleaf	Redroot pigweed	Giant ragweed	Giant foxtail
Crop Code			ZEAMX	
BBCH Scale			BCOR	
Crop Scientific Name			Zea mays	
Crop Name			Corn	
Rating Date	6-29-2015	6-29-2015	7-23-2015	7-23-2015
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	56 32	56 32	80 56	80 56
Trt-Eval Interval	32 DA-B	32 DA-B	56 DA-B	56 DA-B
Plant-Eval Interval	57 DP-1	57 DP-1	81 DP-1	81 DP-1
Days After Emergence	51 DE-1	51 DE-1	75 DE-1	75 DE-1
Number of Decimals	0	0	0	0
Trt Treatment	Other	Other	Appl	Appl
No. Name	Rate	Rate	Unit	Code
				Description
15 Anthem ATZ	32 oz/a	A	PRE	
				22
16 UTC				23
				24
				25
				26
LSD P=.05	5.8	0.9	.	11.8
Standard Deviation	4.1	0.6	0.0	8.3
CV	4.43	0.67	0.0	10.63
Grand Mean	92.7	93.7	0.0	78.0
Bartlett's X2	9.136	0.0	0.0	15.189
P(Bartlett's X2)	0.028*	.	.	0.296
Skewness	-3.5468*	-3.6981*	.	-1.8154*
Kurtosis	11.2213*	12.0627*	.	3.2686*
Replicate F	1.692	1.000	0.000	7.985
Replicate Prob(F)	0.1821	0.4016	1.0000	0.0002
Treatment F	146.212	6390.334	0.000	35.311
Treatment Prob(F)	0.0001	0.0001	1.0000	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	CHEAL	ABUTH	AMARE
Pest Scientific Name	Ipomoea hederata>	Chenopodium al>	Abutilon theop>	Amaranthus ret>
Pest Name	Ivyleaf mornin>	Common lambsqu>	velvetleaf	Redroot pigweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	7-23-2015	7-23-2015	7-23-2015	7-23-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	80 56	80 56	80 56	80 56
Trt-Eval Interval	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Plant-Eval Interval	81 DP-1	81 DP-1	81 DP-1	81 DP-1
Days After Emergence	75 DE-1	75 DE-1	75 DE-1	75 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit	Appl Code	Appl Description	27	28	29	30	31
1	Keystone NXT	2.5 qt/a		A	PRE		96 abc	100 a	100 a	100 a	
1	Hornet	3 oz/a		A	PRE						
1	Durango DMA	1 qt/a		B	POST						
1	N PAK AMS	1.5 qt/a		B	POST						
2	Surestart II	2.5 pt/a		A	PRE		79 cd	100 a	100 a	100 a	
2	Atrazine	1 qt/a		A	PRE						
2	Durango DMA	1 qt/a		B	POST						
2	N PAK AMS	1.5 qt/a		B	POST						
3	GF-3471	2.5 qt/a		A	PRE		95 a-d	100 a	100 a	100 a	
3	Atrazine	1 qt/a		A	PRE						
3	Durango DMA	1 qt/a		B	POST						
3	N PAK AMS	1.5 qt/a		B	POST						
4	Acuron	1.5 qt/a		A	PRE		98 ab	100 a	100 a	100 a	
4	Halex GT	3.6 pt/a		B	POST						
4	AAtrex	1 pt/a		B	POST						
4	NIS	4.8 oz/a		B	POST						
4	N PAK AMS	1.5 qt/a		B	POST						
5	Acuron	1.5 qt/a		A	PRE		100 a	100 a	100 a	100 a	
5	Acuron	1.5 qt/a		B	POST						
5	NIS	4.8 oz/a		B	POST						
5	N PAK AMS	1.5 qt/a		B	POST						
6	Acuron	2 qt/a		B	POST		100 a	100 a	100 a	100 a	
6	NIS	4.8 oz/a		B	POST						
6	N PAK AMS	1.5 qt/a		B	POST						
7	Acuron	2 qt/a		A	PRE		100 a	99 a	100 a	100 a	
7	Touchdown Total	32 oz/a		B	POST						
7	N PAK AMS	1.5 qt/a		B	POST						

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	CHEAL	ABUTH	AMARE
Pest Scientific Name	Ipomoea heder>	Chenopodium al>	Abutilon theop>	Amaranthus ret>
Pest Name	Ivyleaf mornin>	Common lambsqu>	velvetleaf	Redroot pigweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	7-23-2015	7-23-2015	7-23-2015	7-23-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	80 56	80 56	80 56	80 56
Trt-Eval Interval	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Plant-Eval Interval	81 DP-1	81 DP-1	81 DP-1	81 DP-1
Days After Emergence	75 DE-1	75 DE-1	75 DE-1	75 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Unit	Appl Code	Appl Description	27	28	29	30	31
8	Bicep II Magnum	1.5 qt/a		A	PRE	100 a	98 a	99 a	100 a	
8	Halex GT	3.6 pt/a		B	POST					
8	AAtrex	1 pt/a		B	POST					
8	NIS	4.8 oz/a		B	POST					
8	N PAK AMS	1.5 qt/a		B	POST					
9	Instigate 6 oz					95 a-d	100 a	100 a	100 a	
9	Rimsulfuron	1 oz/a		A	PRE					
9	Mesotrione	5 oz/a		A	PRE					
9	Cinch ATZ	3 pt/a		A	PRE					
9	Realm Q 4 oz									
9	Rimsulfuron	1.2 oz/a		B	POST					
9	Mesotrione	2.5 oz/a		B	POST					
9	Isoxadifen-ethyl	0.3 oz/a		B	POST					
9	Abundit Extra	32 oz/a		B	POST					
9	N PAK AMS	1.5 qt/a		B	POST					
10	Instigate 6 oz					86 a-d	100 a	100 a	100 a	
10	Rimsulfuron	1 oz/a		A	PRE					
10	Mesotrione	5 oz/a		A	PRE					
10	Cinch ATZ	3 pt/a		A	PRE					
10	Realm Q 4 oz									
10	Rimsulfuron	1.2 oz/a		B	POST					
10	Mesotrione	2.5 oz/a		B	POST					
10	Isoxadifen-ethyl	0.3 oz/a		B	POST					
10	Atrazine	1 qt/a		B	POST					
10	COC	0.6 qt/a		B	POST					
11	BreakFree ATZ	1.5 pt/a		A	PRE	91 a-d	100 a	100 a	100 a	
11	Revulin Q 3.4 oz									
11	Nicosulfuron	0.65 oz/a		B	POST					
11	Mesotrione	2.5 oz/a		B	POST					
11	Isoxadifen-ethyl	0.245 oz/a		B	POST					
11	Atrazine	1 qt/a		B	POST					
11	COC	0.6 qt/a		B	POST					
12	Instigate 6 oz					80 bcd	100 a	100 a	100 a	
12	Rimsulfuron	1 oz/a		A	PRE					
12	Mesotrione	5 oz/a		A	PRE					
12	Cinch ATZ	3 pt/a		A	PRE					
12	Abundit Extra	32 oz/a		B	POST					
12	N PAK AMS	1.5 qt/a		B	POST					
13	Instigate 6 oz					78 d	84 b	100 a	100 a	
13	Rimsulfuron	1 oz/a		A	PRE					
13	Mesotrione	5 oz/a		A	PRE					
13	Cinch ATZ	3 pt/a		A	PRE					
14	Corvus	5.6 oz/a		A	PRE	88 a-d	100 a	100 a	100 a	
14	Atrazine	1.5 qt/a		A	PRE					

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	CHEAL	ABUTH	AMARE
Pest Scientific Name	Ipomoea hederata	Chenopodium al-	Abutilon theop-	Amaranthus ret-
Pest Name	Ivyleaf mornin	Common lambsqu	velvetleaf	Redroot pigweed
Crop Code				
BBCH Scale				
Crop Scientific Name				
Crop Name				
Rating Date	7-23-2015	7-23-2015	7-23-2015	7-23-2015
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	80 56	80 56	80 56	80 56
Trt-Eval Interval	56 DA-B	56 DA-B	56 DA-B	56 DA-B
Plant-Eval Interval	81 DP-1	81 DP-1	81 DP-1	81 DP-1
Days After Emergence	75 DE-1	75 DE-1	75 DE-1	75 DE-1
Number of Decimals	0	0	0	0
Trt Treatment	Other Other	Appl Appl		
No. Name	Rate Rate	Unit Code	Description	
15 Anthem ATZ	32 oz/a	A	PRE	
16 UTC				
LSD P=.05	18.7	7.6	3.7	. .
Standard Deviation	13.1	5.3	2.6	0.0 .
CV	15.37	5.82	2.77	0.0 .
Grand Mean	85.3	91.8	93.4	93.8 .
Bartlett's X2	15.831	14.381	4.476	0.0 .
P(Bartlett's X2)	0.105	0.002*	0.034*	. .
Skewness	-2.2101*	-3.3384*	-3.6409*	-3.7021* .
Kurtosis	4.4394*	10.044*	11.7512*	12.0825* .
Replicate F	3.708	1.690	0.834	0.000
Replicate Prob(F)	0.0182	0.1826	0.4821	1.0000
Treatment F	13.645	86.962	370.428	0.000
Treatment Prob(F)	0.0001	0.0001	0.0001	1.0000

Company Showcase Corn Herbicide Programs

Trial ID: 15CORNSHOW	Location: Western Branch Big E	Trial Year: 2015
Protocol ID: 15CORNSHOW	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*, = US
 AMBTR, *Ambrosia trifida*, = US
 CHEAL, *Chenopodium album*, = US
 AMARE, *Amaranthus retroflexus*, = US
 ABUTH, *Abutilon theophrasti*, = US
 HIBTR, *Hibiscus trionum*, = US
 IPOHE, *Ipomoea hederacea*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

PHYGEN = phytotoxicity - general / injury
 CONTRO = control / burndown or knockdown
 PHYNEC = phytotoxicity - necrosis /burn
 PHYCHL = phytotoxicity - chlorosis

Rating Unit

% = percent

Plant-Eval Interval

24 DP-1 = 1 ZEAMX 5-3-2015
 31 DP-1 = 1 ZEAMX 5-3-2015
 38 DP-1 = 1 ZEAMX 5-3-2015
 57 DP-1 = 1 ZEAMX 5-3-2015
 81 DP-1 = 1 ZEAMX 5-3-2015