

The Ohio State University

BASF Corn 1 Pass Vs. 2 Pass Programs

Trial ID: 16BASFCORN
 Protocol ID: 16BASFCORN
 Project ID: MKD-H-2016-US-C51-A-01

Location: Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director:
 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 °: 39.86032 N
Longitude of LL Corner °: 83.67244 W
Altitude of LL Corner, Unit: 1085.00 FT

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: SCS1066AMX
Description: Seed Consultants RR/LL 106 RM
Seed Size, Unit: 2084 S/LB

Planting Rate, Unit: 32097 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Soil Temperature, Unit: 52 F
Soil Moisture: NORMAL normal, adequate
Seed Bed: MEDIUM medium

Planting Date: 4-20-2016
Planting Method: SEEDED seeded
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-1-2016

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:** POLPY *Persicaria pensylvanica*
Common Name: Pennsylvania smartweed

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

Pest 8 Type: W **Code:** CONSS *Convolvulus sp.*
Common Name: Morningglory

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 16
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 2015

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Soil Description

Description Name: F-7 East
 % OM: 2 Texture: SIC silty clay
 pH: 6.9 Soil Name: Crosby
 CEC: 14 Fert. Level: G good
 Soil Drainage: G good

Application Description

	A	B	C
Application Date:	6-22-2016	5-19-2016	6-1-2016
Appl. Start Time:	11:45 AM	9:30 AM	8:30 AM
Appl. Stop Time:	12:00 AM	10:00 AM	8:45 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	POEMSE	POST
Application Placement:	BROSOI	FOLIAR	BROFOL
Applied By:	Dobbels	Loux	Bolte
Air Temperature, Unit:	65 f	57 F	72 F
% Relative Humidity:	33	52	20
Wind Velocity, Unit:	6 MPH	8 MPH	4 MPH
Wind Direction:	E	NNE	NE
Dew Presence (Y/N):	N no	N no	N no
Soil Temperature, Unit:	52 F	52 F	64 F
Soil Moisture:	NORMAL	NORMAL	NORMAL
% Cloud Cover:	20	0	5
Next Moisture Occurred On:	4-21-2016	5-20-2016	6-4-2016
Time to Next Moisture, Unit:	1 DAY	1 DAY	3 DAY

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:	BBCH		BBCH		BBCH	
Stage Majority, Percent:	V2	100	V4	100		
Height, Unit:	4	IN	10	IN		
Height Minimum, Maximum:	3	4	8	12		

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Pest Stage At Each Application

	A		B		C	
Pest 1 Code, Type, Scale:	SETFA	W	SETFA	W	SETFA	W
Stage Majority, Percent:			13	90	18	60
Stage Minimum, Percent:			12	10	14	40
Stage Maximum, Percent:			13	90	18	60
Height, Unit:			3	IN	4	IN
Height Minimum, Maximum:			2	3	2	6
Density, Unit:			333	M2	333	m2
Pest 2 Code, Type, Scale:	AMBTR	W	AMBTR	W	AMBTR	W
Stage Majority, Percent:			12	100	18	60
Stage Minimum, Percent:					12	40
Stage Maximum, Percent:					18	60
Height, Unit:			2	IN	6	IN
Height Minimum, Maximum:			1	2	2	8
Density, Unit:			22.6	M2	22.6	m2
Pest 3 Code, Type, Scale:	CHEAL	W	CHEAL	W	CHEAL	W
Stage Majority, Percent:			14	90	16	60
Stage Minimum, Percent:			12	10	14	40
Stage Maximum, Percent:			14	90	16	60
Height, Unit:			1	IN	3	IN
Height Minimum, Maximum:			0.5	1	2	4
Density, Unit:			61.2	M2	61.2	m2
Pest 4 Code, Type, Scale:	AMARE	W	AMARE	W	AMARE	W
Stage Majority, Percent:			12	100		
Height, Unit:			0.5	IN		
Height Minimum, Maximum:			0.25	0.5		
Density, Unit:			35	M2		
Pest 5 Code, Type, Scale:	ABUTH	W	ABUTH	W	ABUTH	W
Stage Majority, Percent:			12	100	13	60
Stage Minimum, Percent:					12	40
Stage Maximum, Percent:			in		13	60
Height, Unit:			2	IN	2	IN
Height Minimum, Maximum:			1	2	1	2
Density, Unit:			4	M2	4	m2
Pest 6 Code, Type, Scale:	POLPY	W	POLPY	W	POLPY	W
Stage Majority, Percent:			13	100	19	60
Stage Minimum, Percent:					14	40
Stage Maximum, Percent:					19	60
Height, Unit:			1	IN	16	IN
Height Minimum, Maximum:			1	2	14	18
Density, Unit:			9.3	M2	9.3	m2
Pest 7 Code, Type, Scale:	AMBEL	W	AMBEL	W	AMBEL	W
Stage Majority, Percent:			12	100	14	100
Height, Unit:			2	IN	4	IN
Height Minimum, Maximum:			1	2	3	4
Density, Unit:			4	M2	4	m2
Pest 8 Code, Type, Scale:	CONSS	W	CONSS	W	CONSS	W
Stage Majority, Percent:					13	60
Stage Minimum, Percent:					12	40
Stage Maximum, Percent:					13	60
Diameter, Unit:					12	IN
Height, Unit:					4	IN
Height Minimum, Maximum:					2	4
Density, Unit:					2.6	m2

Application Equipment

	A		B		C	
Appl. Equipment:	10' AI XR	6 FOOT BOOM	6 FOOT BOOM	6 FOOT BOOM	6 FOOT BOOM	
Equipment Type:	SPRBAC	SPRBAC	SPRBAC	SPRBAC	SPRBAC	
Operation Pressure, Unit:	46 PSI	46 PSI	46 PSI	46 PSI	46 PSI	
Nozzle Type:	AI XR	AI XR	AI XR	AI XR	AI XR	
Nozzle Size:	110015	110015	110015	110015	110015	
Nozzle Spacing, Unit:	18 IN	18 IN	18 IN	18 IN	18 IN	
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT	10 FT	
Boom Height, Unit:	20 IN	20 IN	20 IN	20 IN	20 IN	
Ground Speed, Unit:	3 MPH	3 MPH	3 MPH	3 MPH	3 MPH	
Carrier:	WATER	WATER	WATER	WATER	WATER	
Spray Volume, Unit:	15 GPA	15 GPA	15 GPA	15 GPA	15 GPA	
Mix Size, Unit:	2 Liters	1 Liters	1 Liters	1 Liters	1 Liters	
Propellant:	CO2	CO2	CO2	CO2	CO2	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	POLPY	SETFA
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu	Pennsylvania s>	Giant foxtail
Crop Code				ZEAMX	
Crop Name				Corn	
Rating Date	6-1-2016	6-1-2016	6-1-2016	6-1-2016	6-8-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYCHL
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By					Ackley
Days After First/Last Applic.	13 13	13 13	13 13	13 13	20 7
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	38 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	1*	2*	3*	4*	5*	6*
1	Untreated Check				0 e	0 e	0 d	0 c	2 -	0 f
2	Verdict	18 oz/a		A	73 cd	70 bcd	80 bc	90 a	0 -	78 de
3	Verdict	10 oz/a		A	82 a-d	60 d	77 c	77 b	6 -	96 abc
	Status	5 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
4	Zidua SC	3.3 oz/a		A	70 d	67 cd	70 c	70 b	3 -	94 abc
	Sharpen	1 oz/a		A						
	Armezon	0.75 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Verdict	10 oz/a		A	100 a	83 a	100 a	100 a	3 -	100 a
	Armezon Pro	16 oz/a		C						
	Atrazine	16 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
6	Armezon Pro	16 oz/a		B	93 ab	77 abc	100 a	100 a	2 -	83 cde
	Atrazine	16 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
7	Armezon Pro	20 oz/a		A	87 a-d	72 a-d	100 a	100 a	1 -	91 a-d
	Sharpen	3 oz/a		A						
8	Verdict	12 oz/a		A	83 a-d	63 d	93 ab	100 a	1 -	92 a-d
	Zidua SC	2.5 oz/a		A						
9	Capreno	3 oz/a		B	93 ab	82 ab	100 a	100 a	3 -	80 de
	Atrazine	16 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
10	Acuron	80 oz/a		A	83 a-d	77 abc	93 ab	100 a	0 -	98 ab
11	Surpass	31.5 oz/a		A	89 abc	70 bcd	100 a	100 a	0 -	90 a-e
	Callisto	5.4 oz/a		A						
	Stinger	4.6 oz/a		A						
12	Corvus	5.6 oz/a		A	82 a-d	70 bcd	98 a	100 a	1 -	87 a-e
13	DiFlexx	10 oz/a		B	83 a-d	81 ab	100 a	100 a	2 -	80 de
	Laudis	2.5 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
14	Surestart II	32 oz/a		A	80 bcd	60 d	100 a	100 a	0 -	77 e

Means followed by same letter or symbol do not significantly differ (P=0.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means

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Pest Code	SETFA	AMBTR	CHEAL	POLPY	SETFA					
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu	Pennsylvania s>	Giant foxtail					
Crop Code				ZEAMX						
Crop Name				Corn						
Rating Date	6-1-2016	6-1-2016	6-1-2016	6-1-2016	6-8-2016	6-14-2016				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	PHYCHL	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Assessed By						Ackley				
Days After First/Last Applic.	13 13	13 13	13 13	13 13	20 7	26 13				
Trt-Eval Interval	13 DA-B	13 DA-B	13 DA-B	13 DA-B	13 DA-B	26 DA-B				
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	38 DE-1	44 DE-1				
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*
15	Halex GT	57.6 oz/a		B	93 ab	83 a	98 a	100 a	3 -	83 cde
	Atrazine	16 oz/a		B						
	NIS	0.25 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
16	Armezon Pro	16 oz/a		B	90 abc	80 ab	100 a	100 a	3 -	85 b-e
	Atrazine	16 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
	LSD P=.05				19.1	12.2	13.4	11.2	3.8	13.7
	Standard Deviation				11.5	7.3	8.1	6.7	2.3	8.2
	CV				14.31	10.67	9.14	7.47	125.09	10.03
	Bartlett's X2				15.369	13.007	9.415	0.066	7.161	8.874
	P(Bartlett's X2)				0.285	0.369	0.094	0.797	0.786	0.782
	Skewness				-2.2979*	-2.1277*	-2.6823*	-2.8641*	0.9398*	-2.6828*
	Kurtosis				5.951*	5.6547*	6.909*	7.6766*	-0.6558	7.502*
	Replicate F				0.039	9.072	0.675	1.296	2.055	2.168
	Replicate Prob(F)				0.9617	0.0008	0.5170	0.2884	0.1458	0.1320
	Treatment F				11.739	22.259	29.857	43.898	1.504	23.459
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.1660	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMBTR	CHEAL	POLPY	ABUTH	HIBTR	AMARE				
Pest Name	Giant Common lambsqu> Pennsylvania s> velvetleaf Venice mallow Redroot pigweed ragweed									
Crop Code										
Crop Name										
Rating Date	6-14-2016	6-14-2016	6-14-2016	6-14-2016	6-14-2016	6-14-2016				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Assessed By	Ackley	Ackley	Ackley	Ackley	Ackley	Ackley				
Days After First/Last Applic.	26 13	26 13	26 13	26 13	26 13	26 13				
Trt-Eval Interval	26 DA-B	26 DA-B	26 DA-B	26 DA-B	26 DA-B	26 DA-B				
Days After Emergence	44 DE-1	44 DE-1	44 DE-1	44 DE-1	44 DE-1	44 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	7*	8*	9*	10*	11*	12*
1	Untreated Check				0 i	0 c	0 c	0 c	0 c	0 c
2	Verdict	18 oz/a		A	73 b-f	87 b	90 b	90 b	90 b	90 b
3	Verdict	10 oz/a		A	92 a	99 a	100 a	100 a	100 a	100 a
	Status	5 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
4	Zidua SC	3.3 oz/a		A	92 a	100 a	100 a	100 a	100 a	100 a
	Sharpen	1 oz/a		A						
	Armezon	0.75 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Verdict	10 oz/a		A	80 b	100 a	100 a	100 a	100 a	100 a
	Armezon Pro	16 oz/a		C						
	Atrazine	16 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
6	Armezon Pro	16 oz/a		B	75 b-e	98 a	100 a	93 ab	100 a	100 a
	Atrazine	16 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
7	Armezon Pro	20 oz/a		A	65 e-h	100 a	100 a	100 a	95 ab	100 a
	Sharpen	3 oz/a		A						
8	Verdict	12 oz/a		A	60 gh	93 ab	100 a	100 a	100 a	100 a
	Zidua SC	2.5 oz/a		A						
9	Capreno	3 oz/a		B	78 bc	99 a	100 a	100 a	100 a	99 a
	Atrazine	16 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
10	Acuron	80 oz/a		A	63 fgh	100 a	100 a	100 a	99 a	100 a
11	Surpass	31.5 oz/a		A	67 d-h	97 a	100 a	95 ab	95 ab	100 a
	Callisto	5.4 oz/a		A						
	Stinger	4.6 oz/a		A						
12	Corvus	5.6 oz/a		A	68 c-g	100 a	100 a	100 a	100 a	100 a
13	DiFlexx	10 oz/a		B	82 ab	100 a	100 a	100 a	100 a	100 a
	Laudis	2.5 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
14	Surestart II	32 oz/a		A	57 h	100 a	98 a	100 a	98 ab	100 a

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	IPOHE	AMBEL	SETFA	AMBTR	CHEAL	POLPY
Pest Name	Ivyleaf mornin>	Common ragweed	Giant foxtail	Giant ragweed	Common lambsqu>	Pennsylvania s>
Crop Code						
Crop Name						
Rating Date	6-14-2016	6-14-2016	6-29-2016	6-29-2016	6-29-2016	6-29-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By	Ackley	Ackley	Ackley	Ackley	Ackley	Ackley
Days After First/Last Applic.	26 13	26 13	41 7	41 7	41 7	41 7
Trt-Eval Interval	26 DA-B	26 DA-B	41 DA-B	41 DA-B	41 DA-B	41 DA-B
Days After Emergence	44 DE-1	44 DE-1	59 DE-1	59 DE-1	59 DE-1	59 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*	18*
1	Untreated Check				0 b	0 c	0 f	0 g	0 c	0 c
2	Verdict	18 oz/a		A	90 a	90 b	62 e	50 c-f	86 b	87 b
3	Verdict	10 oz/a		A	100 a	100 a	94 abc	93 ab	99 ab	100 a
	Status	5 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
4	Zidua SC	3.3 oz/a		A	99 a	100 a	95 ab	95 a	100 a	100 a
	Sharpen	1 oz/a		A						
	Armezon	0.75 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Verdict	10 oz/a		A	100 a	100 a	99 a	60 cd	100 a	100 a
	Armezon Pro	16 oz/a		C						
	Atrazine	16 oz/a		C						
	Roundup PowerMax	22 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
6	Armezon Pro	16 oz/a		B	92 a	100 a	78 a-e	50 c-f	93 ab	100 a
	Atrazine	16 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
7	Armezon Pro	20 oz/a		A	98 a	100 a	80 a-e	43 c-f	100 a	100 a
	Sharpen	3 oz/a		A						
8	Verdict	12 oz/a		A	95 a	100 a	73 cde	33 ef	100 a	100 a
	Zidua SC	2.5 oz/a		A						
9	Capreno	3 oz/a		B	98 a	100 a	67 de	58 cde	100 ab	100 a
	Atrazine	16 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
10	Acuron	80 oz/a		A	93 a	100 a	86 a-d	30 f	98 ab	100 a
11	Surpass	31.5 oz/a		A	95 a	100 a	82 a-e	40 def	93 ab	100 a
	Callisto	5.4 oz/a		A						
	Stinger	4.6 oz/a		A						
12	Corvus	5.6 oz/a		A	100 a	100 a	77 b-e	62 cd	100 a	100 a
13	DiFlexx	10 oz/a		B	100 a	99 a	62 e	60 cd	100 a	100 a
	Laudis	2.5 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
14	Surestart II	32 oz/a		A	98 a	99 a	72 de	27 f	100 a	99 a

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 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	HIBTR	AMARE	IPOHE	AMBEL
Pest Name	velvetleaf	Venice mallow	Redroot pigweed	lyleaf mornin>	Common ragweed
Crop Code					
Crop Name					
Rating Date	6-29-2016	6-29-2016	6-29-2016	6-29-2016	6-29-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
Assessed By	Ackley	Ackley	Ackley	Ackley	Ackley
Days After First/Last Applic.	41 7	41 7	41 7	41 7	41 7
Trt-Eval Interval	41 DA-B	41 DA-B	41 DA-B	41 DA-B	41 DA-B
Days After Emergence	59 DE-1	59 DE-1	59 DE-1	59 DE-1	59 DE-1
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	19*	20*	21*	22*	23*
1	Untreated Check				0 c	0 c	0 c	0 b	0 c
2	Verdict	18 oz/a		A	87 b	87 b	87 b	87 a	87 b
3	Verdict	10 oz/a		A	100 a	100 a	100 a	99 a	100 a
	Status	5 oz/a		C					
	Roundup PowerMax	22 oz/a		C					
	COC	1 % v/v		C					
	N PAK AMS	2.5 % v/v		C					
4	Zidua SC	3.3 oz/a		A	100 a	100 a	100 a	93 a	100 a
	Sharpen	1 oz/a		A					
	Armezon	0.75 oz/a		C					
	Roundup PowerMax	22 oz/a		C					
	COC	1 % v/v		C					
	N PAK AMS	2.5 % v/v		C					
5	Verdict	10 oz/a		A	100 a	100 a	100 a	98 a	100 a
	Armezon Pro	16 oz/a		C					
	Atrazine	16 oz/a		C					
	Roundup PowerMax	22 oz/a		C					
	COC	1 % v/v		C					
	N PAK AMS	2.5 % v/v		C					
6	Armezon Pro	16 oz/a		B	100 a	100 a	100 a	90 a	100 a
	Atrazine	16 oz/a		B					
	Roundup PowerMax	22 oz/a		B					
	COC	1 % v/v		B					
	N PAK AMS	2.5 % v/v		B					
7	Armezon Pro	20 oz/a		A	100 a	100 a	100 a	100 a	100 a
	Sharpen	3 oz/a		A					
8	Verdict	12 oz/a		A	100 a	100 a	100 a	95 a	100 a
	Zidua SC	2.5 oz/a		A					
9	Capreno	3 oz/a		B	100 a	100 a	100 a	100 a	100 a
	Atrazine	16 oz/a		B					
	Roundup PowerMax	22 oz/a		B					
	COC	1 % v/v		B					
	N PAK AMS	2.5 % v/v		B					
10	Acuron	80 oz/a		A	100 a	99 a	100 a	93 a	100 a
11	Surpass	31.5 oz/a		A	99 a	99 a	100 a	92 a	100 a
	Callisto	5.4 oz/a		A					
	Stinger	4.6 oz/a		A					
12	Corvus	5.6 oz/a		A	100 a	100 a	100 a	95 a	100 a
13	DiFlexx	10 oz/a		B	99 a	100 a	99 a	87 a	100 a
	Laudis	2.5 oz/a		B					
	Roundup PowerMax	22 oz/a		B					
	COC	1 % v/v		B					
	N PAK AMS	2.5 % v/v		B					
14	Surestart II	32 oz/a		A	98 a	100 a	100 a	93 a	100 a

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BASF Corn 1 Pass Vs. 2 Pass Programs

Trial ID: 16BASFCORN
 Protocol ID: 16BASFCORN
 Project ID: MKD-H-2016-US-C51-A-01

Location: Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director:
 Sponsor Contact:

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ABUTH	HIBTR	AMARE	IPOHE	AMBEL				
Pest Name	velvetleaf	Venice mallow	Redroot pigweed	lyleaf mornin>	Common ragweed				
Crop Code									
Crop Name									
Rating Date	6-29-2016	6-29-2016	6-29-2016	6-29-2016	6-29-2016				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
Assessed By	Ackley	Ackley	Ackley	Ackley	Ackley				
Days After First/Last Applic.	41 7	41 7	41 7	41 7	41 7				
Trt-Eval Interval	41 DA-B	41 DA-B	41 DA-B	41 DA-B	41 DA-B				
Days After Emergence	59 DE-1	59 DE-1	59 DE-1	59 DE-1	59 DE-1				
Number of Decimals	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	19*	20*	21*	22*	23*
15	Halex GT	57.6 oz/a		B	100 a	100 a	100 a	93 a	100 a
	Atrazine	16 oz/a		B					
	NIS	0.25 % v/v		B					
	N PAK AMS	2.5 % v/v		B					
16	Armezon Pro	16 oz/a		B	100 a	100 a	100 a	100 a	100 a
	Atrazine	16 oz/a		B					
	COC	1 % v/v		B					
	N PAK AMS	2.5 % v/v		B					
	LSD P=.05				9.7	9.6	9.6	16.3	9.6
	Standard Deviation				5.8	5.7	5.8	9.8	5.8
	CV				6.28	6.19	6.21	11.07	6.21
	Bartlett's X2				19.016	15.374	27.752	12.494	0.0
	P(Bartlett's X2)				0.001*	0.001*	0.001*	0.328	.
	Skewness				-3.4745*	-3.4786*	-3.479*	-2.9871*	-3.4805*
	Kurtosis				10.8675*	10.8852*	10.8871*	8.5739*	10.8924*
	Replicate F				1.123	1.277	1.189	0.993	1.000
	Replicate Prob(F)				0.3387	0.2936	0.3185	0.3823	0.3798
	Treatment F				55.108	56.628	56.390	17.994	56.250
	Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001

The Ohio State University

BASF Corn 1 Pass Vs. 2 Pass Programs

Trial ID: 16BASFCORN
Protocol ID: 16BASFCORN
Project ID: MKD-H-2016-US-C51-A-01

Location: Trial Year: 2016
Investigator: Dr. Mark M. Loux
Study Director:
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
POLPY, *Persicaria pensylvanica*, = US
ABUTH, *Abutilon theophrasti*, = US
HIBTR, *Hibiscus trionum*, = US
AMARE, *Amaranthus retroflexus*, = US
IPOHE, *Ipomoea hederacea*, = US
AMBEL, *Ambrosia artemisiifolia*, = US

Crop Code

ZEAMX, BCOR, *Zea mays*, = US

Rating Type

CONTRO = control / burndown or knockdown
PHYCHL = phytotoxicity - chlorosis

Rating Unit

% = percent