

The Ohio State University

Two Pass and Early Post Weed Control in Corn I

Trial ID: 16PREPOC1
 Protocol ID: 16PRPOC1
 Project ID: EHLCor2, Dow Showcase

Location:
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Syngetna, Dow Agrosiences

Trial Year: 2016

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 °: 39.86028 N
Longitude of LL Corner °: 83.6718 W
Altitude of LL Corner, Unit: 1086.00 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: P1197AMXT
Description: Pioneer RR/LL 111 RM

Corn

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:** CONSS *Convolvulus sp.*
Common Name: Morningglory

Pest 8 Type: W **Code:** CYPES *Cyperus esculentus*
Common Name: Yellow nutsedge

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 14
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOBL 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:	4-20-2016	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:	5-21-2016	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:	V3	80	V5	100		
Stage Minimum, Percent:	V2	20				
Stage Maximum, Percent:	V3	80				
Height, Unit:	4	IN	12	IN		

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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:		13 100	
Height, Unit:		2.5 IN	
Height Minimum, Maximum:		2 3	
Density, Unit:			305 m2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W	AMBTR W
Stage Majority, Percent:		12 100	18 60
Stage Minimum, Percent:			14 40
Stage Maximum, Percent:			18 60
Height, Unit:		2.5 IN	4 IN
Height Minimum, Maximum:		2 3	2 6
Density, Unit:			6 m2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Stage Majority, Percent:		14 100	19 60
Stage Minimum, Percent:			14 40
Stage Maximum, Percent:			19 60
Height, Unit:		0.75 IN	5 IN
Height Minimum, Maximum:		0.5 1	2 8
Density, Unit:			69 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:			31 m2
Pest 5 Code, Type, Scale:	ABUTH W	ABUTH W	ABUTH W
Stage Majority, Percent:		12 100	
Height, Unit:		1.5 IN	
Height Minimum, Maximum:		1 2	
Density, Unit:			0 m2
Pest 6 Code, Type, Scale:	POLPY W	POLPY W	POLPY W
Stage Majority, Percent:		13 100	
Height, Unit:		1.5 IN	
Height Minimum, Maximum:		1 2	
Density, Unit:			1 m2
Pest 7 Code, Type, Scale:	CONSS W	CONSS W	CONSS W
Stage Majority, Percent:			13 60
Stage Minimum, Percent:			11 40
Stage Maximum, Percent:			13 60
Height, Unit:			3 IN
Height Minimum, Maximum:			2 4
Pest 8 Code, Type, Scale:	CYPES W	CYPES W	CYPES W
Stage Majority, Percent:			16 60
Stage Minimum, Percent:			12 40
Stage Maximum, Percent:			16 60
Height, Unit:			9 IN
Height Minimum, Maximum:			8 10

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

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	POLPY	CHEAL	ABUTH	HIBTR
Pest Name	Giant ragweed	Giant foxtail	Pennsylvania s>	Common lambsqu>	velvetleaf	Venice mallow
Rating Date	6-1-2016	6-1-2016	6-1-2016	6-1-2016	6-1-2016	6-1-2016
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Assessed By						
Rating Timing	AT POST	AT POST	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	42 13	42 13	42 13	42 13	42 13	42 13
Trt-Eval Interval	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C	0 DA-C
Days After Emergence	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 DE-1	31 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*
1	Untreated Check				0 e	0 d	0 c		0 c	0 c
2	Acuron	1.5 qt/a		A	75 d	79 c	98 ab		100 a	100 a
	Halex GT	3.6 pt/a		C						96 ab
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
3	Acuron	1.5 qt/a		A	79 cd	88 abc	95 ab		100 a	99 ab
	Acuron	1.5 qt/a		C						98 ab
	Roundup PowerMax	22 oz/a		C						
	N PAK AMS	2.5 % v/v		C						
4	Bicep II Magnum	1.25 qt/a		A	78 cd	95 ab	94 b		82 b	95 b
	Halex GT	3.6 pt/a		C						100 a
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Halex GT	3.6 pt/a		B	89 abc	93 abc	100 a		100 a	100 a
	Atrazine	1 qt/a		B						
	NIS	0.25 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
6	Armezon Pro	20 oz/a		B	84 a-d	83 bc	99 ab		95 a	100 a
	MSO	1 % v/v		B						93 b
	N PAK AMS	2.5 % v/v		B						
7	REALM Q 4 OZ	4 oz/a		B	94 ab	91 abc	100 a		99 a	100 a
	Rimsulfuron	1.2 oz/a		B						
	Mesotrione	2.5 oz/a		B						
	Isoxadifen-ethyl	0.3 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
8	Resicore	1.5 qt/a		A	78 cd	95 ab	100 a		99 a	100 a
	Resicore	1.5 qt/a		C						93 b
9	Corvus	3.3 oz/a		A	80 cd	80 c	100 a		100 a	100 a
	Capreno	3 oz/a		C						98 ab
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
10	Resicore	2.5 qt/a		A	90 abc	98 a	100 a		100 a	100 a
	Atrazine	1 qt/a		A						
11	Resicore	2.5 qt/a		A	81 bcd	95 ab	100 a		100 a	100 a
12	Resicore	2.5 qt/a		A	88 a-d	90 abc	100 a		100 a	100 a
	Resicore	1.5 qt/a		C						95 ab
	Durango DMA	1 qt/a		C						
	Atrazine	1 qt/a		C						
	N PAK AMS	2.5 % v/v		C						
13	Resicore	1.25 qt/a		A	86 a-d	88 abc	100 a		100 a	100 a
	Atrazine	1 qt/a		A						
	Resicore	1.25 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	0.5 qt/a		C						
	N PAK AMS	2.5 % v/v		C						

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.
 * Adjusted means
 Could not calculate LSD (% mean diff) for columns 13 because error mean square = 0.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	CHEAL	POLPY	ABUTH	HIBTR
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu	Pennsylvania s>	velvetleaf	Venice mallow
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
Rating Timing	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO	14 DAPO
Days After First/Last Applic.	55 13	55 13	55 13	55 13	55 13	55 13
Trt-Eval Interval	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C	13 DA-C
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 f	0 g	0 c	0 c	0 c	0 c
2	Acuron	1.5 qt/a		A	99 ab	93 a-e	100 a	100 a	100 a	100 a
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
3	Acuron	1.5 qt/a		A	100 a	96 ab	100 a	100 a	100 a	100 a
	Acuron	1.5 qt/a		C						
	Roundup PowerMax	22 oz/a		C						
	N PAK AMS	2.5 % v/v		C						
4	Bicep II Magnum	1.25 qt/a		A	100 a	85 c-f	100 a	100 a	100 a	100 a
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Halex GT	3.6 pt/a		B	84 de	84 def	100 a	100 a	100 a	100 a
	Atrazine	1 qt/a		B						
	NIS	0.25 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
6	Armezon Pro	20 oz/a		B	81 e	78 f	99 b	95 b	96 b	91 b
	MSO	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
7	REALM Q 4 OZ	4 oz/a		B	85 cde	88 b-f	100 a	100 a	100 a	100 a
	Rimsulfuron	1.2 oz/a		B						
	Mesotrione	2.5 oz/a		B						
	Isoxadifen-ethyl	0.3 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
8	Resicore	1.5 qt/a		A	100 a	95 abc	100 a	100 a	100 a	100 a
	Resicore	1.5 qt/a		C						
9	Corvus	3.3 oz/a		A	94 ab	94 a-d	100 a	100 a	100 a	100 a
	Capreno	3 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
10	Resicore	2.5 qt/a		A	91 bcd	83 ef	100 a	100 a	100 a	100 a
	Atrazine	1 qt/a		A						
11	Resicore	2.5 qt/a		A	93 abc	78 f	100 a	100 a	100 a	95 ab
12	Resicore	2.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
	Resicore	1.5 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	1 qt/a		C						
	N PAK AMS	2.5 % v/v		C						
13	Resicore	1.25 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
	Atrazine	1 qt/a		A						
	Resicore	1.25 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	0.5 qt/a		C						
	N PAK AMS	2.5 % v/v		C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	IPOHE	SETFA	AMBTR	CHEAL	POLPY
Pest Name	Redroot pigweed	Ivyleaf mornin>	Giant foxtail	Giant ragweed	Common lambsqu>	Pennsylvania s>
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
Rating Timing	14 DAPO	14 DAPO	28 DAPO	28 DAPO	28 DAPO	28 DAPO
Days After First/Last Applic.	55 13	55 13	70 28	70 28	70 28	70 28
Trt-Eval Interval	13 DA-C	13 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C
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 c	0 f	0 c	0 c
2	Acuron	1.5 qt/a		A	100 a	98 a	99 a	94 ab	100 a	100 a
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
3	Acuron	1.5 qt/a		A	100 a	97 a	98 a	91 abc	100 a	100 a
	Acuron	1.5 qt/a		C						
	Roundup PowerMax	22 oz/a		C						
	N PAK AMS	2.5 % v/v		C						
4	Bicep II Magnum	1.25 qt/a		A	100 a	100 a	98 a	83 cde	100 a	100 a
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Halex GT	3.6 pt/a		B	100 a	100 a	84 b	79 de	100 a	100 a
	Atrazine	1 qt/a		B						
	NIS	0.25 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
6	Armezon Pro	20 oz/a		B	100 a	85 b	78 b	75 e	95 b	95 b
	MSO	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
7	REALM Q 4 OZ	4 oz/a		B	100 a	95 a	75 b	88 bcd	100 a	100 a
	Rimsulfuron	1.2 oz/a		B						
	Mesotrione	2.5 oz/a		B						
	Isoxadifen-ethyl	0.3 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
8	Resicore	1.5 qt/a		A	100 a	100 a	98 a	100 a	100 a	100 a
	Resicore	1.5 qt/a		C						
9	Corvus	3.3 oz/a		A	100 a	98 a	83 b	93 abc	100 a	100 a
	Capreno	3 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
10	Resicore	2.5 qt/a		A	100 a	100 a	79 b	83 cde	100 a	100 a
	Atrazine	1 qt/a		A						
11	Resicore	2.5 qt/a		A	100 a	100 a	83 b	74 e	100 a	100 a
12	Resicore	2.5 qt/a		A	100 a	100 a	100 a	99 a	100 a	100 a
	Resicore	1.5 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	1 qt/a		C						
	N PAK AMS	2.5 % v/v		C						
13	Resicore	1.25 qt/a		A	100 a	100 a	100 a	99 a	100 a	100 a
	Atrazine	1 qt/a		A						
	Resicore	1.25 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	0.5 qt/a		C						
	N PAK AMS	2.5 % v/v		C						

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Pest Code	AMARE	IPOHE	SETFA	AMBTR	CHEAL	POLPY			
Pest Name	Redroot pigweed Ivyleaf mornin> Giant foxtail			Giant Common lambsqu> ragweed		Pennsylvania s>			
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			
Rating Timing	14 DAPO	14 DAPO	28 DAPO	28 DAPO	28 DAPO	28 DAPO			
Days After First/Last Applic.	55 13	55 13	70 28	70 28	70 28	70 28			
Trt-Eval Interval	13 DA-C	13 DA-C	28 DA-C	28 DA-C	28 DA-C	28 DA-C			
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 Treatment	Other Rate	Other Rate	Appl Unit Code	13*	14*	15*	16*	17*	18*
14 Resicore	2.5 qt/a		B	100 a	100 a	81 b	94 ab	100 a	100 a
Durango DMA	1 qt/a		B						
Atrazine	1 qt/a		B						
N PAK AMS	2.5 % v/v		B						
LSD P=.05				.	5.2	9.4	10.2	3.8	3.8
Standard Deviation				0.0	3.7	6.6	7.1	2.7	2.7
CV				0.0	4.03	7.99	8.65	2.89	2.89
Bartlett's X2				0.0	35.364	18.426	22.229	0.0	0.0
P(Bartlett's X2)				.	0.001*	0.048*	0.023*	.	.
Skewness				-3.4205*	-3.2138*	-2.4301*	-2.4717*	-3.3657*	-3.3657*
Kurtosis				10.0581*	9.0808*	5.8117*	5.965*	9.7832*	9.7832*
Replicate F				0.000	1.276	0.585	0.840	1.000	1.000
Replicate Prob(F)				1.0000	0.2960	0.6281	0.4801	0.4031	0.4031
Treatment F				0.000	209.070	60.253	50.404	397.923	397.923
Treatment Prob(F)				1.0000	0.0001	0.0001	0.0001	0.0001	0.0001

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 Study Director: Anthony Dobbels
 Sponsor Contact: Syngetna, Dow Agrosciences

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ABUTH	HIBTR	AMARE	IPOHE	SETFA	AMBTR
Pest Name	velvetleaf	Venice mallow	Redroot pigweed	lvyleaf mornin>	Giant foxtail	Giant ragweed
Rating Date	6-29-2016	6-29-2016	6-29-2016	6-29-2016	7-13-2016	7-13-2016
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
Rating Timing	28 DAPO	28 DAPO	28 DAPO	28 DAPO	42 DAPO	42 DAPO
Days After First/Last Applic.	70 28	70 28	70 28	70 28	84 42	84 42
Trt-Eval Interval	28 DA-C	28 DA-C	28 DA-C	28 DA-C	42 DA-C	42 DA-C
Days After Emergence	59 DE-1	59 DE-1	59 DE-1	59 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	19*	20*	21*	22*	23*	24*
1	Untreated Check				0 c	0 c	0 c	0 d	0 f	0 f
2	Acuron	1.5 qt/a		A	100 a	100 a	100 a	100 a	97 a	93 ab
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
3	Acuron	1.5 qt/a		A	100 a	100 a	100 a	95 ab	98 a	91 abc
	Acuron	1.5 qt/a		C						
	Roundup PowerMax	22 oz/a		C						
	N PAK AMS	2.5 % v/v		C						
4	Bicep II Magnum	1.25 qt/a		A	100 a	100 a	100 a	96 ab	96 a	81 bcd
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Halex GT	3.6 pt/a		B	100 a	100 a	100 a	96 ab	84 bcd	70 de
	Atrazine	1 qt/a		B						
	NIS	0.25 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
6	Armezon Pro	20 oz/a		B	98 b	91 b	100 a	84 c	75 de	66 e
	MSO	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
7	REALM Q 4 OZ	4 oz/a		B	100 a	95 ab	98 b	100 a	70 e	78 cde
	Rimsulfuron	1.2 oz/a		B						
	Mesotrione	2.5 oz/a		B						
	Isoxadifen-ethyl	0.3 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
8	Resicore	1.5 qt/a		A	100 a	100 a	100 a	100 a	95 ab	100 a
	Resicore	1.5 qt/a		C						
9	Corvus	3.3 oz/a		A	100 a	100 a	100 a	96 ab	83 cd	93 ab
	Capreno	3 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
10	Resicore	2.5 qt/a		A	100 a	100 a	100 a	91 bc	78 cde	75 de
	Atrazine	1 qt/a		A						
11	Resicore	2.5 qt/a		A	100 a	90 b	100 a	100 a	75 de	66 e
12	Resicore	2.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	99 a
	Resicore	1.5 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	1 qt/a		C						
	N PAK AMS	2.5 % v/v		C						
13	Resicore	1.25 qt/a		A	100 a	100 a	100 a	99 ab	100 a	100 a
	Atrazine	1 qt/a		A						
	Resicore	1.25 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	0.5 qt/a		C						
	N PAK AMS	2.5 % v/v		C						

The Ohio State University

Two Pass and Early Post Weed Control in Corn I

Trial ID: 16PREPOC1
 Protocol ID: 16PRPOC1
 Project ID: EHLCor2, Dow Showcase

Location: Trial Year: 2016
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: Syngetna, Dow Agrosciences

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	POLPY	ABUTH	HIBTR	AMARE	IPOHE
Pest Name	common lambsqu>	annual smartwe>	velvetleaf	Venice mallow	Redroot pigweed	ivy-leaf morni>
Rating Date	7-13-2016	7-13-2016	7-13-2016	7-13-2016	7-13-2016	7-13-2016
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
Rating Timing	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO	42 DAPO
Days After First/Last Applic.	84 42	84 42	84 42	84 42	84 42	84 42
Trt-Eval Interval	42 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C	42 DA-C
Days After Emergence	73 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1	73 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	25*	26*	27*	28*	29*	30*
1	Untreated Check				0 c	0 c	0 c	0 c	0 c	0 e
2	Acuron	1.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	99 ab
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
3	Acuron	1.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	93 abc
	Acuron	1.5 qt/a		C						
	Roundup PowerMax	22 oz/a		C						
	N PAK AMS	2.5 % v/v		C						
4	Bicep II Magnum	1.25 qt/a		A	100 a	100 a	100 a	100 a	100 a	96 ab
	Halex GT	3.6 pt/a		C						
	NIS	0.25 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
5	Halex GT	3.6 pt/a		B	100 a	100 a	100 a	100 a	100 a	95 abc
	Atrazine	1 qt/a		B						
	NIS	0.25 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
6	Armezon Pro	20 oz/a		B	89 b	94 b	98 b	95 a	100 a	81 d
	MSO	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
7	REALM Q 4 OZ	4 oz/a		B	100 a	100 a	100 a	96 a	100 a	95 abc
	Rimsulfuron	1.2 oz/a		B						
	Mesotrione	2.5 oz/a		B						
	Isoxadifen-ethyl	0.3 oz/a		B						
	Roundup PowerMax	22 oz/a		B						
	COC	1 % v/v		B						
	N PAK AMS	2.5 % v/v		B						
8	Resicore	1.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	99 ab
	Resicore	1.5 qt/a		C						
9	Corvus	3.3 oz/a		A	100 a	100 a	100 a	100 a	100 a	88 cd
	Capreno	3 oz/a		C						
	COC	1 % v/v		C						
	N PAK AMS	2.5 % v/v		C						
10	Resicore	2.5 qt/a		A	95 a	100 a	100 a	100 a	99 a	91 bc
	Atrazine	1 qt/a		A						
11	Resicore	2.5 qt/a		A	100 a	100 a	100 a	84 b	93 b	100 a
12	Resicore	2.5 qt/a		A	100 a	100 a	100 a	100 a	100 a	100 a
	Resicore	1.5 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	1 qt/a		C						
	N PAK AMS	2.5 % v/v		C						
13	Resicore	1.25 qt/a		A	100 a	100 a	100 a	100 a	100 a	99 ab
	Atrazine	1 qt/a		A						
	Resicore	1.25 qt/a		C						
	Durango DMA	1 qt/a		C						
	Atrazine	0.5 qt/a		C						
	N PAK AMS	2.5 % v/v		C						

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Two Pass and Early Post Weed Control in Corn I

Trial ID: 16PREPOC1
Protocol ID: 16PRPOC1
Project ID: EHLCor2, Dow Showcase

Location:
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: Syngetna, Dow Agrosiences

Trial Year: 2016

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

POLPY, Persicaria pensylvanica, = US

CHEAL, Chenopodium album, = US

ABUTH, Abutilon theophrasti, = US

HIBTR, Hibiscus trionum, = US

AMARE, Amaranthus retroflexus, = US

IPOHE, Ipomoea hederacea, = US

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent