

The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN Location: Western Branch Big E Trial Year: 2017
 Protocol ID: 17BAYERCORN Investigator: Dr. Mark M. Loux
 Project ID: HP17USAWMU Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

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 °: 39.85695 N
Longitude of LL Corner °: 83.67011 W
Altitude of LL Corner, Unit: 1090.00 FT
Conducted Under GLP: No
Conducted Under GEP: No
No.

Contacts

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

Cooperator/Landowner

Other Contacts

Crop Description

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

Planting Rate, Unit: 32097 S/A
Depth, Unit: 1.75 IN
Row Spacing, Unit: 30 IN

Planting Date: 4-25-2017
Planting Method: PLANTD planted
Planting Equipment: FPP Finger Pickup Planter
Emergence Date: 5-10-2017

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

Pest Description

Pest 1 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: common lambsquarters

Pest 2 Type: W **Code:** AMBTR *Ambrosia trifida*
Common Name: Giant ragweed

Pest 3 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 4 Type: W **Code:** AMARE *Amaranthus retroflexus*
Common Name: Redroot pigweed

Pest 5 Type: W **Code:** POLPY *Persicaria pensylvanica*
Common Name: annual smartweed

Pest 6 Type: W **Code:** ABUTH *Abutilon theophrasti*
Common Name: velvetleaf

Pest 7 Type: W **Code:** HIBTR *Hibiscus trionum*
Common Name: Venice mallow

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 12
Replications: 4
No. Previous Crop Year
 1. Soybean 2016

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: CONTIL conventional-till
Study Design: RACOB Randomized Complete Block (RCB)

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Maintenance

No.

Soil Description

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

Additional Measured Elements

Application Description

	A	B	C
Application Date:	4-25-2017	5-26-2017	6-6-2017
Appl. Start Time:	12:45 PM	8:30 AM	8:23 AM
Appl. Stop Time:	1:00 PM	9:00 AM	8:30 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PRE	V4	V6
Application Placement:	BROSOL	BROFOL	BROFOL
Applied By:	Dobbels	Dobbels	Ackley
Air Temperature, Unit:	72 F	60 F	59 F
% Relative Humidity:	55	79	77
Wind Velocity, Unit:	7 MPH	11 MPH	7 MPH
Wind Direction:	ESE	W	N
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	56 F	59 F	60 F
Soil Moisture:	DRY	WET	MOIST
% Cloud Cover:	5	1	0
Next Moisture Occurred On:	4-27-2017	5-26-2017	6-13-2017
Time to Next Moisture, Unit:	2 DAY	12 HR	1 WK

Crop Stage At Each Application

	A		B		C	
Crop 1 Code, BBCH Scale:	ZEAMX	BCOR	ZEAMX	BCOR	ZEAMX	BCOR
Stage Scale Used:			BBCH		BBCH	
Stage Majority, Percent:			13	100	15	100
Height, Unit:			6.5	IN	18	IN
Height Minimum, Maximum:			6	7		

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Pest Stage At Each Application

	A			B			C		
Pest 1 Code, Type, Scale:	CHEAL	W		CHEAL	W		CHEAL	W	
Stage Majority, Percent:				13		100			
Height, Unit:				1.5		IN			
Height Minimum, Maximum:				1		2			
Density, Unit:				20		M2			
Pest 2 Code, Type, Scale:	AMBTR	W		AMBTR	W		AMBTR	W	
Stage Majority, Percent:				21		100	18		100
Height, Unit:				4		IN	7		IN
Height Minimum, Maximum:				3		5	4		10
Density, Unit:				4		M2	4		m2
Pest 3 Code, Type, Scale:	SETFA	W		SETFA	W		SETFA	W	
Stage Majority, Percent:				13		100	14		100
Height, Unit:				1.5		IN	6		IN
Height Minimum, Maximum:				1		2	4		8
Density, Unit:				93		M2	93		m2
Pest 4 Code, Type, Scale:	AMARE	W		AMARE	W		AMARE	W	
Stage Majority, Percent:				14		100			
Height, Unit:				1.5		IN			
Height Minimum, Maximum:				1		2			
Density, Unit:				3		M2	3		m2
Pest 5 Code, Type, Scale:	POLPY	W		POLPY	W		POLPY	W	
Stage Majority, Percent:							14		100
Height, Unit:							2.5		IN
Height Minimum, Maximum:							2		3
Density, Unit:							1		m2
Pest 6 Code, Type, Scale:	ABUTH	W		ABUTH	W		ABUTH	W	
Stage Majority, Percent:							14		100
Height, Unit:							3		IN
Height Minimum, Maximum:							2		4
Density, Unit:							0.5		m2
Pest 7 Code, Type, Scale:	HIBTR	W		HIBTR	W		HIBTR	W	
Stage Majority, Percent:				13		100			
Height, Unit:				1.25		IN			
Height Minimum, Maximum:				1		1.5			
Density, Unit:				1		m2			

Application Equipment

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

Trt No Treatment Application Comment

Date By Notes

No. Date By Deviations

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Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	CHEAL	ABUTH		
Pest Name	Giant foxtail	Giant common lambsqu	ragweed	velvetleaf		
Crop Code	ZEAMX				ZEAMX	ZEAMX
Crop Name	Corn				Corn	Corn
Rating Date	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-15-2017
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	PHYCHL
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	38 7	38 7	38 7	38 7	38 7	51 9
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	9 DA-C
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1	36 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*	7*	
1	Untreated				0 c	0 d	0 d		0 c	0 c	0 c	0 b
2	Balance Flexx	4 oz/a		A	0 c	20 c	50 c		80 b	83 b	15 a	1 b
	2 Atrazine	1.5 qt/a		A								
	2 Liberty	32 oz/a		C								
	2 DiFlexx	8 oz/a		C								
	2 N PAK AMS	1.5 qt/a		C								
3	Corvus	3.5 oz/a		A	0 c	80 b	71 b		100 a	100 a	4 bc	0 b
	3 Atrazine	1.5 qt/a		A								
	3 DiFlexx	8 oz/a		C								
	3 Roundup PowerMax	32 oz/a		C								
	3 N PAK AMS	1.5 qt/a		C								
4	Degree Xtra	2 qt/a		A	0 c	85 ab	49 c		100 a	83 b	4 bc	0 b
	4 Liberty	32 oz/a		C								
	4 Laudis	3 oz/a		C								
	4 N PAK AMS	1.5 qt/a		C								
5	Degree Xtra	3 qt/a		A	0 c	90 ab	53 c		100 a	90 ab	5 b	15 a
	5 DiFlexx Duo	32 oz/a		C								
	5 MSO	0.6 qt/a		C								
	5 N PAK AMS	1.5 qt/a		C								
6	Corvus	3.5 oz/a		A	0 c	79 b	75 b		100 a	100 a	0 c	0 b
7	Atrazine	1.5 qt/a		A	0 c	33 c	70 b		98 a	100 a	5 b	0 b
	7 Roundup PowerMax	22 oz/a		C								
	7 DiFlexx Duo	24 oz/a		C								
	7 N PAK AMS	1.5 qt/a		C								
8	Liberty	32 oz/a		B	9 a	97 ab	100 a		100 a	100 a	0 c	0 b
	8 Anthem ATZ	2.5 pt/a		B								
	8 N PAK AMS	1.5 qt/a		B								
9	Liberty	32 oz/a		B	6 b	100 a	99 a		100 a	100 a	0 c	0 b
	9 Resicore	2 qt/a		B								
	9 N PAK AMS	1.5 qt/a		B								
10	Halex GT	3.6 pt/a		B	0 c	100 a	99 a		100 a	100 a	0 c	0 b
	10 Atrazine	2 pt/a		B								
	10 NIS	4.8 oz/a		B								
	10 N PAK AMS	1.5 qt/a		B								

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

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Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	CHEAL	ABUTH							
Pest Name	Giant foxtail	Giant common ragweed	lamb's	qu	velvetleaf						
Crop Code	ZEAMX				ZEAMX	ZEAMX					
Crop Name	Corn				Corn	Corn					
Rating Date	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-2-2017	6-15-2017	6-15-2017				
Rating Type	PHYNEC	CONTRO	CONTRO	CONTRO	CONTRO	PHYCHL	PHYSTU				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Days After First/Last Applic.	38 7	38 7	38 7	38 7	38 7	38 7	51 9				
Trt-Eval Interval	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	7 DA-B	9 DA-C				
Days After Emergence	23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1	23 DE-1	36 DE-1				
Number of Decimals	0	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate Unit	Appl Code	1*	2*	3*	4*	5*	6*	7*
11	Liberty	32 oz/a		B	0 c	96 ab	99 a	100 a	100 a	0 c	0 b
11	DiFlex Duo	24 oz/a		B							
11	Atrazine	2 pt/a		B							
11	N PAK AMS	1.5 qt/a		B							
12	Bicep II Magnum	2 qt/a		A	0 c	86 ab	59 bc	100 a	95 ab	3 bc	0 b
12	Liberty	22 oz/a		C							
12	Roundup PowerMax	22 oz/a		C							
12	N PAK AMS	1.5 qt/a		C							
LSD P=.05					1.4	19.9	16.8	7.1	14.7	4.0	1.9
Standard Deviation					1.0	13.8	11.6	4.9	10.2	2.8	1.3
CV					79.8	19.19	17.0	5.49	11.65	96.89	98.62
Bartlett's X2					1.304	65.522	24.99	3.432	3.611	9.683	0.685
P(Bartlett's X2)					0.253	0.001*	0.003*	0.064	0.307	0.046*	0.408
Skewness					2.3045*	-1.3279*	-0.8651*	-2.8389*	-2.4436*	1.7228*	3.291*
Kurtosis					3.9316*	0.2055	0.0321	6.7211*	4.8627*	1.9019*	10.1117*
Replicate F					0.223	2.960	0.386	1.000	2.793	0.404	1.850
Replicate Prob(F)					0.8795	0.0464	0.7637	0.4051	0.0556	0.7507	0.1574
Treatment F					36.503	24.702	25.558	136.979	31.013	9.627	41.708
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE	ABUTH
Pest Name	Giant Common barnyar> Giant ragweed common lambsqu> Redroot pigweed velvetleaf foxtail					
Crop Code						
Crop Name						
Rating Date	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	51 9	51 9	51 9	51 9	51 9	51 9
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	8*	9*	10*	11*	12*	13*
1	Untreated				0 d	0 c	0 d	0 c	0 b	0 b
2	Balance Flexx	4 oz/a		A	89 ab	58 b	95 ab	100 a	100 a	100 a
2	Atrazine	1.5 qt/a		A						
2	Liberty	32 oz/a		C						
2	DiFlexx	8 oz/a		C						
2	N PAK AMS	1.5 qt/a		C						
3	Corvus	3.5 oz/a		A	98 a	98 a	94 ab	100 a	100 a	100 a
3	Atrazine	1.5 qt/a		A						
3	DiFlexx	8 oz/a		C						
3	Roundup PowerMax	32 oz/a		C						
3	N PAK AMS	1.5 qt/a		C						
4	Degree Xtra	2 qt/a		A	99 a	95 a	90 ab	99 ab	100 a	100 a
4	Liberty	32 oz/a		C						
4	Laudis	3 oz/a		C						
4	N PAK AMS	1.5 qt/a		C						
5	Degree Xtra	3 qt/a		A	85 abc	85 a	86 b	100 a	100 a	96 a
5	DiFlexx Duo	32 oz/a		C						
5	MSO	0.6 qt/a		C						
5	N PAK AMS	1.5 qt/a		C						
6	Corvus	3.5 oz/a		A	65 c	60 b	71 c	100 ab	98 a	95 a
7	Atrazine	1.5 qt/a		A	91 ab	53 b	94 ab	100 a	100 a	96 a
7	Roundup PowerMax	22 oz/a		C						
7	DiFlexx Duo	24 oz/a		C						
7	N PAK AMS	1.5 qt/a		C						
8	Liberty	32 oz/a		B	87 ab	84 a	88 ab	100 a	96 a	100 a
8	Anthem ATZ	2.5 pt/a		B						
8	N PAK AMS	1.5 qt/a		B						
9	Liberty	32 oz/a		B	91 ab	91 a	98 a	100 a	100 a	100 a
9	Resicore	2 qt/a		B						
9	N PAK AMS	1.5 qt/a		B						
10	Halex GT	3.6 pt/a		B	99 a	99 a	91 ab	100 a	100 a	100 a
10	Atrazine	2 pt/a		B						
10	NIS	4.8 oz/a		B						
10	N PAK AMS	1.5 qt/a		B						

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Pest Code	SETFA	ECHCG	AMBTR	CHEAL	AMARE	ABUTH			
Pest Name	Giant Common barnyar> Giant ragweed common lambsqu> Redroot pigweed velvetleaf foxtail								
Crop Code									
Crop Name									
Rating Date	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017	6-15-2017			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	51 9	51 9	51 9	51 9	51 9	51 9			
Trt-Eval Interval	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A	20 DA-A			
Days After Emergence	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1	36 DE-1			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment No. Name	Other Rate	Other Rate Unit	Appl Code	8*	9*	10*	11*	12*	13*
11 Liberty	32 oz/a		B	86 ab	83 a	94 ab	100 a	100 a	100 a
11 DiFlex Duo	24 oz/a		B						
11 Atrazine	2 pt/a		B						
11 N PAK AMS	1.5 qt/a		B						
12 Bicep II Magnum	2 qt/a		A	77 bc	99 a	96 ab	98 b	100 a	100 a
12 Liberty	22 oz/a		C						
12 Roundup PowerMax	22 oz/a		C						
12 N PAK AMS	1.5 qt/a		C						
LSD P=.05				20.7	17.1	10.3	2.3	3.8	6.0
Standard Deviation				14.4	11.9	7.2	1.6	2.6	4.2
CV				17.89	15.79	8.67	1.72	2.89	4.63
Bartlett's X2				60.317	22.884	5.5	9.922	0.474	0.34
P(Bartlett's X2)				0.001*	0.002*	0.855	0.007*	0.491	0.844
Skewness				-2.1191*	-1.4467*	-2.5054*	-3.0959*	-3.0697*	-3.0049*
Kurtosis				3.4792*	1.1874	5.5161*	7.9526*	7.8373*	7.5495*
Replicate F				0.738	1.912	2.808	1.833	0.673	1.065
Replicate Prob(F)				0.5368	0.1469	0.0547	0.1603	0.5744	0.3774
Treatment F				14.189	23.762	56.438	1349.117	474.361	185.774
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	HIBTR	SETFA	ECHCG	AMBTR
Pest Name	Venice mallow	Giant foxtail	Common barnyar>	Giant ragweed
Crop Code	ZEAMX	ZEAMX		
Crop Name	Corn	Corn		
Rating Date	6-15-2017	6-20-2017	6-20-2017	6-20-2017
Rating Type	CONTRO	PHYCHL	PHYSTU	CONTRO
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Days After First/Last Applic.	51 9	56 14	56 14	56 14
Trt-Eval Interval	20 DA-A	14 DA-C	14 DA-C	14 DA-C
Days After Emergence	36 DE-1	41 DE-1	41 DE-1	41 DE-1
Number of Decimals	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	14*	15*	16*	17*	18*	19*
1	Untreated				0 c	0 d	0 -	0 d	0 d	0 d
2	Balance Flexx	4 oz/a		A	100 a	14 a	0 -	93 ab	63 c	94 ab
	2 Atrazine	1.5 qt/a		A						
	2 Liberty	32 oz/a		C						
	2 DiFlexx	8 oz/a		C						
	2 N PAK AMS	1.5 qt/a		C						
3	Corvus	3.5 oz/a		A	100 a	0 d	0 -	97 a	97 a	98 ab
	3 Atrazine	1.5 qt/a		A						
	3 DiFlexx	8 oz/a		C						
	3 Roundup PowerMax	32 oz/a		C						
	3 N PAK AMS	1.5 qt/a		C						
4	Degree Xtra	2 qt/a		A	100 a	2 c	0 -	98 a	99 a	96 ab
	4 Liberty	32 oz/a		C						
	4 Laudis	3 oz/a		C						
	4 N PAK AMS	1.5 qt/a		C						
5	Degree Xtra	3 qt/a		A	100 a	0 d	0 -	86 b	84 ab	96 ab
	5 DiFlexx Duo	32 oz/a		C						
	5 MSO	0.6 qt/a		C						
	5 N PAK AMS	1.5 qt/a		C						
6	Corvus	3.5 oz/a		A	100 a	0 d	0 -	60 c	61 c	79 c
7	Atrazine	1.5 qt/a		A	99 b	3 c	1 -	92 ab	69 bc	100 a
	7 Roundup PowerMax	22 oz/a		C						
	7 DiFlexx Duo	24 oz/a		C						
	7 N PAK AMS	1.5 qt/a		C						
8	Liberty	32 oz/a		B	100 a	0 d	0 -	88 b	82 ab	87 bc
	8 Anthem ATZ	2.5 pt/a		B						
	8 N PAK AMS	1.5 qt/a		B						
9	Liberty	32 oz/a		B	100 a	0 d	0 -	92 ab	92 a	93 ab
	9 Resicore	2 qt/a		B						
	9 N PAK AMS	1.5 qt/a		B						
10	Halex GT	3.6 pt/a		B	100 a	0 d	0 -	97 a	98 a	90 abc
	10 Atrazine	2 pt/a		B						
	10 NIS	4.8 oz/a		B						
	10 N PAK AMS	1.5 qt/a		B						

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

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The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN
Protocol ID: 17BAYERCORN
Project ID: HP17USAWMU

Location: Western Branch Big E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	HIBTR	SETFA	ECHCG	AMBTR					
Pest Name	Venice mallow	Giant foxtail	Common barnyar>	Giant ragweed					
Crop Code	ZEAMX	ZEAMX							
Crop Name	Corn	Corn							
Rating Date	6-15-2017	6-20-2017	6-20-2017	6-20-2017					
Rating Type	CONTRO	PHYCHL	PHYSTU	CONTRO					
Rating Unit	%	%	%	%					
Number of Subsamples	1	1	1	1					
Days After First/Last Applic.	51 9	56 14	56 14	56 14					
Trt-Eval Interval	20 DA-A	14 DA-C	14 DA-C	14 DA-C					
Days After Emergence	36 DE-1	41 DE-1	41 DE-1	41 DE-1					
Number of Decimals	0	0	0	0					
Trt Treatment	Other Rate	Other Rate	Appl Unit Code	14*	15*	16*	17*	18*	19*
11 Liberty	32 oz/a		B	100 a	0 d	0 -	85 b	87 a	95 ab
11 DiFlex Duo	24 oz/a		B						
11 Atrazine	2 pt/a		B						
11 N PAK AMS	1.5 qt/a		B						
12 Bicep II Magnum	2 qt/a		A	100 a	5 b	0 -	99 a	99 a	98 ab
12 Liberty	22 oz/a		C						
12 Roundup PowerMax	22 oz/a		C						
12 N PAK AMS	1.5 qt/a		C						
LSD P=.05		1.0	1.9	1.0	8.7	18.0	12.4		
Standard Deviation		0.7	1.3	0.7	6.0	12.5	8.6		
CV		0.79	67.35	692.82	7.32	16.13	10.12		
Bartlett's X2		0.0	0.097	0.0	28.455	57.477	12.544		
P(Bartlett's X2)		.	0.953	.	0.002*	0.001*	0.184		
Skewness		-3.1096*	2.3537*	6.9282*	-2.3356*	-1.6373*	-2.5738*		
Kurtosis		8.0106*	4.9596*	48.0*	4.5919*	1.6676*	5.738*		
Replicate F		1.000	1.089	1.000	3.712	5.325	0.133		
Replicate Prob(F)		0.4051	0.3674	0.4051	0.0210	0.0042	0.9399		
Treatment F		6386.455	38.286	1.000	86.077	20.121	40.544		
Treatment Prob(F)		0.0001	0.0001	0.4671	0.0001	0.0001	0.0001		

Means followed by same letter or symbol do not significantly differ (P=.05, LSD)
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The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN
Protocol ID: 17BAYERCORN
Project ID: HP17USAWMU

Location: Western Branch Big E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	HIBTR	SETFA	ECHCG
Pest Name	common lambsqu	Redroot pigweed	velvetleaf	Venice mallow	Giant foxtail	Common barnyar

Crop Code						
Crop Name						
Rating Date	6-20-2017	6-20-2017	6-20-2017	6-20-2017	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	56 14	56 14	56 14	56 14	71 29	71 29
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	29 DA-C	29 DA-C
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	20*	21*	22*	23*	24*	25*
1	Untreated				0 c	0 b	0 b	0 b	0 f	0 f
2	Balance Flexx	4 oz/a		A	98 b	100 a	97 a	100 a	78 d	73 d
2	Atrazine	1.5 qt/a		A						
2	Liberty	32 oz/a		C						
2	DiFlexx	8 oz/a		C						
2	N PAK AMS	1.5 qt/a		C						
3	Corvus	3.5 oz/a		A	100 a	100 a	97 a	100 a	87 c	85 c
3	Atrazine	1.5 qt/a		A						
3	DiFlexx	8 oz/a		C						
3	Roundup PowerMax	32 oz/a		C						
3	N PAK AMS	1.5 qt/a		C						
4	Degree Xtra	2 qt/a		A	100 a	100 a	98 a	100 a	87 bc	87 bc
4	Liberty	32 oz/a		C						
4	Laudis	3 oz/a		C						
4	N PAK AMS	1.5 qt/a		C						
5	Degree Xtra	3 qt/a		A	100 a	100 a	100 a	100 a	80 cd	80 cd
5	DiFlexx Duo	32 oz/a		C						
5	MSO	0.6 qt/a		C						
5	N PAK AMS	1.5 qt/a		C						
6	Corvus	3.5 oz/a		A	100 a	95 a	100 a	100 a	61 e	61 e
7	Atrazine	1.5 qt/a		A	100 a	100 a	100 a	100 a	87 c	87 bc
7	Roundup PowerMax	22 oz/a		C						
7	DiFlexx Duo	24 oz/a		C						
7	N PAK AMS	1.5 qt/a		C						
8	Liberty	32 oz/a		B	100 a	96 a	96 a	100 a	83 cd	83 c
8	Anthem ATZ	2.5 pt/a		B						
8	N PAK AMS	1.5 qt/a		B						
9	Liberty	32 oz/a		B	100 a	100 a	100 a	100 a	86 c	87 bc
9	Resicore	2 qt/a		B						
9	N PAK AMS	1.5 qt/a		B						
10	Halex GT	3.6 pt/a		B	100 a	100 a	100 a	100 a	95 ab	95 ab
10	Atrazine	2 pt/a		B						
10	NIS	4.8 oz/a		B						
10	N PAK AMS	1.5 qt/a		B						

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The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN
Protocol ID: 17BAYERCORN
Project ID: HP17USAWMU

Location: Western Branch Big E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	AMARE	ABUTH	HIBTR	SETFA	ECHCG
Pest Name	common lambsqu	Redroot pigweed	velvetleaf	Venice mallow	Giant foxtail	Common barnyar

Crop Code						
Crop Name						
Rating Date	6-20-2017	6-20-2017	6-20-2017	6-20-2017	7-5-2017	7-5-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	56 14	56 14	56 14	56 14	71 29	71 29
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	14 DA-C	29 DA-C	29 DA-C
Days After Emergence	41 DE-1	41 DE-1	41 DE-1	41 DE-1	56 DE-1	56 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	20*	21*	22*	23*	24*	25*
11	Liberty	32 oz/a		B	100 a	95 a	100 a	100 a	81 cd	81 c
11	DiFlex Duo	24 oz/a		B						
11	Atrazine	2 pt/a		B						
11	N PAK AMS	1.5 qt/a		B						
12	Bicep II Magnum	2 qt/a		A	99 ab	100 a	99 a	100 a	96 a	96 a
12	Liberty	22 oz/a		C						
12	Roundup PowerMax	22 oz/a		C						
12	N PAK AMS	1.5 qt/a		C						
LSD P=.05					2.1	6.6	4.7	.	7.9	8.2
Standard Deviation					1.5	4.6	3.2	0.0	5.5	5.7
CV					1.64	5.06	3.58	0.0	7.19	7.48
Bartlett's X2					12.954	9.901	14.187	0.0	18.224	20.135
P(Bartlett's X2)					0.002*	0.019*	0.014*	.	0.051	0.028*
Skewness					-3.0983*	-2.9843*	-3.0449*	-3.1133*	-2.2848*	-2.2275*
Kurtosis					7.9624*	7.4544*	7.7369*	8.0253*	4.621*	4.3855*
Replicate F					0.905	1.267	1.342	0.000	9.412	9.047
Replicate Prob(F)					0.4492	0.3016	0.2774	1.0000	0.0001	0.0002
Treatment F					1483.613	155.658	311.041	0.000	87.377	81.672
Treatment Prob(F)					0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

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The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN
 Protocol ID: 17BAYERCORN
 Project ID: HP17USAWMU

Location: Western Branch Big E
 Investigator: Dr. Mark M. Loux
 Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	AMARE	ABUTH	IPOHE	SETFA
Pest Name	Giant ragweed common lambsqu> Redroot pigweed velvetleaf ivy-leaf morni> Giant foxtail					

Crop Code						
Crop Name						
Rating Date	7-5-2017	7-5-2017	7-5-2017	7-5-2017	7-5-2017	7-31-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	71 29	71 29	71 29	71 29	71 29	97 55
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C	55 DA-C
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	82 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	26*	27*	28*	29*	30*	31*
1	Untreated				0 c	0 c	0 b	0 c	0 b	0 e
2	Balance Flexx	4 oz/a		A	83 ab	100 a	100 a	85 b	100 a	68 c
2	Atrazine	1.5 qt/a		A						
2	Liberty	32 oz/a		C						
2	DiFlexx	8 oz/a		C						
2	N PAK AMS	1.5 qt/a		C						
3	Corvus	3.5 oz/a		A	88 a	100 a	100 a	93 ab	96 a	73 bc
3	Atrazine	1.5 qt/a		A						
3	DiFlexx	8 oz/a		C						
3	Roundup PowerMax	32 oz/a		C						
3	N PAK AMS	1.5 qt/a		C						
4	Degree Xtra	2 qt/a		A	89 a	100 a	100 a	100 a	95 a	83 a
4	Liberty	32 oz/a		C						
4	Laudis	3 oz/a		C						
4	N PAK AMS	1.5 qt/a		C						
5	Degree Xtra	3 qt/a		A	95 a	100 a	100 a	100 a	100 a	79 ab
5	DiFlexx Duo	32 oz/a		C						
5	MSO	0.6 qt/a		C						
5	N PAK AMS	1.5 qt/a		C						
6	Corvus	3.5 oz/a		A	68 b	100 a	100 a	100 a	96 a	58 d
7	Atrazine	1.5 qt/a		A	94 a	100 a	100 a	100 a	88 a	73 bc
7	Roundup PowerMax	22 oz/a		C						
7	DiFlexx Duo	24 oz/a		C						
7	N PAK AMS	1.5 qt/a		C						
8	Liberty	32 oz/a		B	90 a	100 a	96 a	100 a	93 a	78 ab
8	Anthem ATZ	2.5 pt/a		B						
8	N PAK AMS	1.5 qt/a		B						
9	Liberty	32 oz/a		B	93 a	100 a	100 a	100 a	100 a	80 ab
9	Resicore	2 qt/a		B						
9	N PAK AMS	1.5 qt/a		B						
10	Halex GT	3.6 pt/a		B	83 ab	100 a	100 a	100 a	98 a	86 a
10	Atrazine	2 pt/a		B						
10	NIS	4.8 oz/a		B						
10	N PAK AMS	1.5 qt/a		B						

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The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN
Protocol ID: 17BAYERCORN
Project ID: HP17USAWMU

Location: Western Branch Big E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBTR	CHEAL	AMARE	ABUTH	IPOHE	SETFA
Pest Name	Giant ragweed common lambsqu> Redroot pigweed velvetleaf ivy-leaf morni> Giant foxtail					

Crop Code						
Crop Name						
Rating Date	7-5-2017	7-5-2017	7-5-2017	7-5-2017	7-5-2017	7-31-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	71 29	71 29	71 29	71 29	71 29	97 55
Trt-Eval Interval	29 DA-C	29 DA-C	29 DA-C	29 DA-C	29 DA-C	55 DA-C
Days After Emergence	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	82 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	26*	27*	28*	29*	30*	31*
11	Liberty	32 oz/a		B	94 a	100 a	95 a	100 a	100 a	73 bc
11	DiFlexx Duo	24 oz/a		B						
11	Atrazine	2 pt/a		B						
11	N PAK AMS	1.5 qt/a		B						
12	Bicep II Magnum	2 qt/a		A	92 a	98 b	98 a	94 ab	93 a	86 a
12	Liberty	22 oz/a		C						
12	Roundup PowerMax	22 oz/a		C						
12	N PAK AMS	1.5 qt/a		C						
LSD P=.05					16.2	1.0	5.6	9.5	12.8	8.3
Standard Deviation					11.3	0.7	3.9	6.6	8.9	5.8
CV					13.99	0.75	4.29	7.42	10.13	8.29
Bartlett's X2					9.48	0.0	9.923	2.131	9.825	12.607
P(Bartlett's X2)					0.487	.	0.019*	0.345	0.132	0.246
Skewness					-2.1809*	-3.1091*	-3.0202*	-2.7955*	-2.5999*	-2.2878*
Kurtosis					4.227*	8.0085*	7.6169*	6.5473*	5.6093*	4.7066*
Replicate F					0.389	1.000	1.020	1.394	5.461	2.691
Replicate Prob(F)					0.7614	0.4051	0.3963	0.2621	0.0037	0.0622
Treatment F					22.065	7143.579	215.964	74.036	39.385	65.545
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN
Protocol ID: 17BAYERCORN
Project ID: HP17USAWMU

Location: Western Branch Big E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	ABUTH	IPOHE
Pest Name	Common barnyar>	Giant common lambsqu>	Redroot pigweed	velvetleaf	ivy-leaf	morni>
Crop Code						
Crop Name						
Rating Date	7-31-2017	7-31-2017	7-31-2017	7-31-2017	7-31-2017	7-31-2017
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	97 55	97 55	97 55	97 55	97 55	97 55
Trt-Eval Interval	55 DA-C	55 DA-C	55 DA-C	55 DA-C	55 DA-C	55 DA-C
Days After Emergence	82 DE-1	82 DE-1	82 DE-1	82 DE-1	82 DE-1	82 DE-1
Number of Decimals	0	0	0	0	0	0

Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	32*	33*	34*	35*	36*	37*
1	Untreated				0 g	0 d	0 b	0 b	0 c	0 b
2	Balance Flexx	4 oz/a		A	66 e	81 abc	100 a	100 a	85 b	85 a
2	Atrazine	1.5 qt/a		A						
2	Liberty	32 oz/a		C						
2	DiFlexx	8 oz/a		C						
2	N PAK AMS	1.5 qt/a		C						
3	Corvus	3.5 oz/a		A	73 cde	89 abc	100 a	100 a	86 b	91 a
3	Atrazine	1.5 qt/a		A						
3	DiFlexx	8 oz/a		C						
3	Roundup PowerMax	32 oz/a		C						
3	N PAK AMS	1.5 qt/a		C						
4	Degree Xtra	2 qt/a		A	83 ab	89 abc	98 a	100 a	100 a	93 a
4	Liberty	32 oz/a		C						
4	Laudis	3 oz/a		C						
4	N PAK AMS	1.5 qt/a		C						
5	Degree Xtra	3 qt/a		A	78 bcd	95 a	100 a	100 a	100 a	80 a
5	DiFlexx Duo	32 oz/a		C						
5	MSO	0.6 qt/a		C						
5	N PAK AMS	1.5 qt/a		C						
6	Corvus	3.5 oz/a		A	58 f	73 c	98 a	100 a	95 ab	95 a
7	Atrazine	1.5 qt/a		A	73 cde	95 ab	100 a	100 a	100 a	83 a
7	Roundup PowerMax	22 oz/a		C						
7	DiFlexx Duo	24 oz/a		C						
7	N PAK AMS	1.5 qt/a		C						
8	Liberty	32 oz/a		B	77 bcd	79 abc	98 a	95 a	100 a	85 a
8	Anthem ATZ	2.5 pt/a		B						
8	N PAK AMS	1.5 qt/a		B						
9	Liberty	32 oz/a		B	80 abc	91 ab	100 a	100 a	100 a	100 a
9	Resicore	2 qt/a		B						
9	N PAK AMS	1.5 qt/a		B						
10	Halex GT	3.6 pt/a		B	86 a	79 bc	100 a	100 a	100 a	100 a
10	Atrazine	2 pt/a		B						
10	NIS	4.8 oz/a		B						
10	N PAK AMS	1.5 qt/a		B						

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The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN
Protocol ID: 17BAYERCORN
Project ID: HP17USAWMU

Location: Western Branch Big E
Investigator: Dr. Mark M. Loux
Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Trial Year: 2017

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	ECHCG	AMBTR	CHEAL	AMARE	ABUTH	IPOHE				
Pest Name	Common barnyar>	Giant common ragweed	lambsq>	Redroot pigweed	velvetleaf	ivy-leaf morni>				
Crop Code										
Crop Name										
Rating Date	7-31-2017	7-31-2017	7-31-2017	7-31-2017	7-31-2017	7-31-2017				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
Days After First/Last Applic.	97 55	97 55	97 55	97 55	97 55	97 55				
Trt-Eval Interval	55 DA-C	55 DA-C	55 DA-C	55 DA-C	55 DA-C	55 DA-C				
Days After Emergence	82 DE-1	82 DE-1	82 DE-1	82 DE-1	82 DE-1	82 DE-1				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Other Rate	Other Rate	Appl Unit Code	32*	33*	34*	35*	36*	37*
11	Liberty	32 oz/a		B	71 de	86 abc	100 a	95 a	100 a	96 a
11	DiFlexx Duo	24 oz/a		B						
11	Atrazine	2 pt/a		B						
11	N PAK AMS	1.5 qt/a		B						
12	Bicep II Magnum	2 qt/a		A	86 a	89 abc	96 a	98 a	90 ab	95 a
12	Liberty	22 oz/a		C						
12	Roundup PowerMax	22 oz/a		C						
12	N PAK AMS	1.5 qt/a		C						
LSD P=.05					7.9	16.4	4.2	6.2	12.2	21.6
Standard Deviation					5.5	11.4	2.9	4.3	8.5	15.0
CV					7.98	14.53	3.23	4.78	9.66	17.99
Bartlett's X2					11.015	10.297	0.008	1.532	1.823	12.626
P(Bartlett's X2)					0.356	0.415	1.00	0.465	0.61	0.125
Skewness					-2.2708*	-2.1179*	-3.0579*	-2.9996*	-2.6034*	-2.0897*
Kurtosis					4.6865*	4.0866*	7.7955*	7.5206*	5.6885*	3.3934*
Replicate F					3.411	1.404	0.383	1.000	2.214	1.602
Replicate Prob(F)					0.0287	0.2589	0.7656	0.4051	0.1049	0.2076
Treatment F					70.961	20.238	380.538	174.576	44.306	13.048
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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 23 because error mean square = 0.

The Ohio State University

Bayer Corn Herbicides University Demo

Trial ID: 17BAYERCORN Location: Western Branch Big E Trial Year: 2017
Protocol ID: 17BAYERCORN Investigator: Dr. Mark M. Loux
Project ID: HP17USAWMU Study Director: Anthony Dobbels
Sponsor Contact: David Lamore, Bayer CropScience

Pest Type

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

Pest Code

SETFA, Setaria faberi, Giant foxtail = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
ABUTH, Abutilon theophrasti, velvetleaf = US
ECHCG, Echinochloa crus-galli, Common barnyard grass = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US
HIBTR, Hibiscus trionum, Venice mallow = US
IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

PHYNEC = phytotoxicity - necrosis /burn
CONTRO = control / burndown or knockdown
PHYCHL = phytotoxicity - chlorosis
PHYSTU = phytotoxicity - stunting

Rating Unit

% = percent