

The Ohio State University

Trial ID: 18DIFLEXXDUO Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: HP18USAWME Investigator: Dr. Mark M. Loux
 Project ID: 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 °: 39.86945 N
Longitude of LL Corner °: 83.67509 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 Corn
Variety: P1197AM
Description: Pioneer RR/LL 111

Planting Date: Apr-29-2018
Planting Method: PLANTD planted
Planting Equipment: FPP finger pickup planter
Emergence Date: May-10-2018

Planting Rate, Unit: 32097 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN
Rows per Plot: 4
Soil Temperature, Unit: 58 F
Soil Moisture: SLIWET slightly wet, moist
Seed Bed: CLODDY cloddy

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:** ECHCG Echinochloa crus-galli
Common Name: Common barnyard grass

Site and Design

Treated Plot Width: 6.67 FT
Treated Plot Length: 30 FT
Treated Plot Area: 200.1 FT² **Treatments:** 10
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 2017

Maintenance

No.	Date	Type	Maintenance Product Name	Form Conc	Form Unit	Form Type	Rate	Unit	Mix
1.	Apr-30-2018	HERB	Atrazine	4	LBA/GAL	F	1	PT/A	no

Soil Description

Description Name: G-6
% Sand: 33 **% OM:** 2.2 **Texture:** SICL silty clay loam
% Silt: 53 **pH:** 5.9 **Soil Name:** Kokomo
% Clay: 15 **CEC:** 14.8 **Fert. Level:** G good
Soil Drainage: G good

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Application Description

A
 Application Date: May-24-2018
 Appl. Start Time: 9:00 AM
 Appl. Stop Time: 9:10 AM
 Application Method: SPRAY
 Application Timing: POST
 Application Placement: BROFOL
 Applied By: Ackley,LamB
 Air Temperature, Unit: 60 F
 % Relative Humidity: 52.4
 Wind Velocity, Unit: 2 MPH
 Wind Direction: N
 Dew Presence (Y/N): N no
 Soil Temperature, Unit: 58 F
 Soil Moisture: NORMAL
 % Cloud Cover: 5
 Next Moisture Occurred On: May-26-2018
 Time to Next Moisture, Unit: 2 DAY
 Moisture 1 Week after Appl.: 0.55 IN

Crop Stage At Each Application

A
 Crop 1 Code, BBCH Scale: ZEAMX BCOR
 Stage Scale Used: BBCH
 Stage Majority, Percent: 14 100
 Height, Unit: 10 IN
 Height Minimum, Maximum: 10 11

Pest Stage At Each Application

A
 Pest 1 Code, Type, Scale: SETFA W
 Stage Majority, Percent: 15 100
 Height, Unit: 6 IN
 Height Minimum, Maximum: 2 9
 Density, Unit: 832 m2
 Pest 2 Code, Type, Scale: AMBTR W
 Stage Majority, Percent: 14 100
 Height, Unit: 4 IN
 Height Minimum, Maximum: 2.5 6
 Density, Unit: 7 m2
 Pest 3 Code, Type, Scale: CHEAL W
 Stage Majority, Percent: 12 100
 Height, Unit: 1.5 IN
 Height Minimum, Maximum: 1 2
 Density, Unit: 33 m2
 Pest 4 Code, Type, Scale: AMARE W
 Stage Majority, Percent: 16 100
 Diameter, Unit: 1 IN
 Height, Unit: 0.5 2
 Density, Unit: 4 m2
 Pest 5 Code, Type, Scale: ABUTH W
 Stage Majority, Percent: 13 100
 Height, Unit: 3 IN
 Height Minimum, Maximum: 2 6
 Density, Unit: 3 m2
 Pest 6 Code, Type, Scale: ECHCG W
 Density, Unit: 21 m2

Application Equipment

A
 Appl. Equipment: 6 FT AIXR
 Equipment Type: SPRBAC
 Operation Pressure, Unit: 42 PSI
 Nozzle Type: AIXR
 Nozzle Size: 110015
 Nozzle Spacing, Unit: 18 IN
 Boom Length, Unit: 6.67 FT
 Boom Height, Unit: 20 IN
 Ground Speed, Unit: 3 MPH
 Carrier: WATER
 Spray Volume, Unit: 15 GPA
 Mix Size, Unit: 1 L
 Propellant: CO2

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Pest Type	ZEAMX		ZEAMX		W Weed	W Weed	W Weed	W Weed
Pest Code	Corn		Corn		SETFA	ECHCG	AMBTR	CHEAL
Pest Name	Giant foxtail		Giant foxtail		Common	Common	Giant ragweed	common lambsqu>
Crop Code	May-31-201	May-31-201	May-31-2018	May-31-2018	May-31-2018	May-31-2018	May-31-2018	May-31-2018
Crop Name	8	8						
Rating Date	PHYMAL	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Type	%	%	%	%	%	%	%	%
Rating Unit	1	1	1	1	1	1	1	1
Number of Subsamples	7 7	7 7	7 7	7 7	7 7	7 7	7 7	7 7
Days After First/Last Applic.	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A
Trt-Eval Interval	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1
Days After Emergence	0	0	0	0	0	0	0	0
Number of Decimals								

Trt Treatment	Rate	Rate Unit	Appl Code	1*	2*	3*	4*	5*	6*
1 UTC				0 -	0 -	0 d	0	0 b	0 -
2 Diflexx Duo	0.405 lb ai/a	A		3 -	0 -	94 ab	92 ab	98 a	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
3 Diflexx Duo	0.304 lb ai/a	A		3 -	0 -	95 ab	95 ab	98 a	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
4 Diflexx Duo	0.304 lb ai/a	A		1 -	1 -	98 a	99 a	97 a	100 -
Liberty	0.585 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
5 Capreno	0.081 lb ai/a	A		1 -	2 -	97 a	97 ab	96 a	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
6 Halex GT	1.97 lb ai/a	A		0 -	1 -	73 c	73 c	97 a	100 -
AAtrex	0.5 lb ai/a	A							
NIS	0.25 % v/v	A							
N Pak AMS	2.5 % v/v	A							
7 Armezon Pro	0.67 lb ai/a	A		2 -	0 -	86 abc	84 abc	98 a	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
8 Armezon	0.0125 lb ai/a	A		2 -	0 -	79 bc	78 bc	98 a	100 -
Status	0.105 lb ai/a	A							
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
9 Diflexx Duo	0.405 lb ai/a	A		4 -	0 -	89 abc	87 abc	98 a	100 -
Roundup PowerMax	1.13 lb ae/a	A							
Degree Xtra	2.02 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							

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Pest Type	ZEAMX		ZEAMX		W Weed	W Weed	W Weed	W Weed	
Pest Code	Corn		Corn		SETFA	ECHCG	AMBTR	CHEAL	
Pest Name	Giant foxtail		Giant foxtail		Common	Giant ragweed	common	lambsqu>	
Crop Code	ZEAMX		ZEAMX						
Crop Name	Corn		Corn						
Rating Date	May-31-201	May-31-201	May-31-2018	May-31-2018	May-31-2018	May-31-2018	May-31-2018	May-31-2018	
Rating Type	PHYMAL	PHYCHL	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	1	1	
Days After First/Last Applic.	7 7	7 7	7 7	7 7	7 7	7 7	7 7	7 7	
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	7 DA-A	
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	21 DE-1	
Number of Decimals	0	0	0	0	0	0	0	0	
Trt Treatment	Rate	Unit	Appl Code	1*	2*	3*	4*	5*	6*
10 Diflexx Duo	0.405 lb ai/a	A		4 -	0 -	92 abc	91 abc	98 a	100 -
Liberty	0.585 lb ae/a	A							
Degree Xtra	2.02 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
LSD P=.05				3.2	1.5	8.7 - 14.4	12.0	2.1	.
Standard Deviation				1.9	0.8	6.2t	6.9	1.2	0.0
CV				95.18	253.64	9.55t	7.85	1.37	0.0
Levene's F				0.755	1.083	0.711	0.614	0.578	0.00
Levene's Prob(F)				0.657	0.416	0.693	0.755	0.80	.
Skewness				0.7462	2.4713*	-2.1303*	-0.4478	-2.8009*	-2.8091*
Kurtosis				-0.6203	4.779*	3.9375*	-1.562	6.2791*	6.3081*
Replicate F				0.038	0.326	1.742	1.316	0.717	0.000
Replicate Prob(F)				0.9627	0.7257	0.2035	0.2956	0.5015	1.0000
Treatment F				2.208	1.451	44.705	4.546	1985.666	0.000
Treatment Prob(F)				0.0729	0.2393	0.0001	0.0049	0.0001	1.0000

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Pest Type	W Weed	W Weed	W Weed				W Weed
Pest Code	ABUTH	AMARE	IPOHE				SETFA
Pest Name	velvetleaf	Redroot ivy-leaf morni> pigweed					Giant foxtail
Crop Code				ZEAMX	ZEAMX	ZEAMX	
Crop Name				Corn	Corn	Corn	
Rating Date	May-31-201	May-31-2018	May-31-2018	Jun-7-201	Jun-7-201	Jun-7-201	Jun-7-2018
	8			8	8	8	
Rating Type	CONTRO	CONTRO	CONTRO	PHYMAL	PHYCHL	PHYSTU	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Days After First/Last Applic.	7 7	7 7	7 7	14 14	14 14	14 14	14 14
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Appl Code	7*	8*	9*	10*	11*	12*	13*
1 UTC				0 -	0 -	0 b	0 -	0 -	0 -	0 b
2 Diflexx Duo	0.405 lb ai/a	A		100 -	100 -	100 a	1 -	1 -	0 -	97 a
Roundup PowerMax	1.13 lb ae/a	A								
AAtrex	0.5 lb ai/a	A								
N Pak AMS	2.5 % v/v	A								
3 Diflexx Duo	0.304 lb ai/a	A		100 -	100 -	100 a	2 -	1 -	0 -	97 a
Roundup PowerMax	1.13 lb ae/a	A								
AAtrex	0.5 lb ai/a	A								
N Pak AMS	2.5 % v/v	A								
4 Diflexx Duo	0.304 lb ai/a	A		100 -	100 -	100 a	0 -	0 -	0 -	94 a
Liberty	0.585 lb ae/a	A								
AAtrex	0.5 lb ai/a	A								
N Pak AMS	2.5 % v/v	A								
5 Capreno	0.081 lb ai/a	A		100 -	100 -	100 a	0 -	0 -	0 -	98 a
Roundup PowerMax	1.13 lb ae/a	A								
AAtrex	0.5 lb ai/a	A								
N Pak AMS	2.5 % v/v	A								
6 Halex GT	1.97 lb ai/a	A		100 -	100 -	100 a	0 -	0 -	0 -	96 a
AAtrex	0.5 lb ai/a	A								
NIS	0.25 % v/v	A								
N Pak AMS	2.5 % v/v	A								
7 Armezon Pro	0.67 lb ai/a	A		100 -	100 -	99 a	0 -	0 -	0 -	97 a
Roundup PowerMax	1.13 lb ae/a	A								
AAtrex	0.5 lb ai/a	A								
N Pak AMS	2.5 % v/v	A								
8 Armezon	0.0125 lb ai/a	A		100 -	100 -	99 a	0 -	0 -	0 -	96 a
Status	0.105 lb ai/a	A								
Roundup PowerMax	1.13 lb ae/a	A								
AAtrex	0.5 lb ai/a	A								
N Pak AMS	2.5 % v/v	A								
9 Diflexx Duo	0.405 lb ai/a	A		100 -	100 -	100 a	1 -	0 -	0 -	97 a
Roundup PowerMax	1.13 lb ae/a	A								
Degree Xtra	2.02 lb ai/a	A								
N Pak AMS	2.5 % v/v	A								

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Pest Type	W Weed	W Weed	W Weed		W Weed	
Pest Code	ABUTH	AMARE	IPOHE		SETFA	
Pest Name	velvetleaf	Redroot ivy-leaf morni> pigweed			Giant foxtail	
Crop Code				ZEAMX	ZEAMX	ZEAMX
Crop Name				Corn	Corn	Corn
Rating Date	May-31-201	May-31-2018	May-31-2018	Jun-7-201	Jun-7-201	Jun-7-201
	8			8	8	8
Rating Type	CONTRO	CONTRO	CONTRO	PHYMAL	PHYCHL	PHYSTU
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	7 7	7 7	7 7	14 14	14 14	14 14
Trt-Eval Interval	7 DA-A	7 DA-A	7 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	21 DE-1	21 DE-1	21 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Rate	Unit	Code	7*	8*	9*
				10*	11*	12*
				13*		
10 Diflexx Duo	0.405 lb ai/a	A		100 -	100 -	100 a
Liberty	0.585 lb ae/a	A				1 -
Degree Xtra	2.02 lb ai/a	A				0 -
N Pak AMS	2.5 % v/v	A				0 -
LSD P=.05						0 -
Standard Deviation						96 a
CV						
Levene's F						
Levene's Prob(F)						
Skewness						
Kurtosis						
Replicate F						
Replicate Prob(F)						
Treatment F						
Treatment Prob(F)						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	ABUTH	AMARE	IPOHE
Pest Name	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Redroot ivy-leaf pigweed	morni>
Crop Code						
Crop Name						
Rating Date	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0	0	0

Trt Treatment No. Name	Rate	Rate Unit	Appl Code	14*	15*	16*	17*	18*	19*
1 UTC				0	0	0 -	0 -	0 -	0 b
2 Diflexx Duo	0.405 lb ai/a	A		97 -	98 -	100 -	100 -	100 -	100 a
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
3 Diflexx Duo	0.304 lb ai/a	A		96 -	96 -	100 -	100 -	100 -	100 a
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
4 Diflexx Duo	0.304 lb ai/a	A		96 -	97 -	100 -	100 -	100 -	100 a
Liberty	0.585 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
5 Capreno	0.081 lb ai/a	A		98 -	97 -	100 -	100 -	100 -	100 a
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
6 Halex GT	1.97 lb ai/a	A		96 -	97 -	100 -	100 -	100 -	100 a
AAtrex	0.5 lb ai/a	A							
NIS	0.25 % v/v	A							
N Pak AMS	2.5 % v/v	A							
7 Armezon Pro	0.67 lb ai/a	A		97 -	99 -	100 -	100 -	100 -	100 a
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
8 Armezon	0.0125 lb ai/a	A		95 -	97 -	100 -	100 -	100 -	100 a
Status	0.105 lb ai/a	A							
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
9 Diflexx Duo	0.405 lb ai/a	A		96 -	97 -	100 -	100 -	100 -	100 a
Roundup PowerMax	1.13 lb ae/a	A							
Degree Xtra	2.02 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ECHCG	AMBTR	CHEAL	ABUTH	AMARE	IPOHE
Pest Name	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Redroot ivy-leaf pigweed	morni>
Crop Code						
Crop Name						
Rating Date	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018	Jun-7-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	14 14	14 14	14 14	14 14	14 14	14 14
Trt-Eval Interval	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A	14 DA-A
Days After Emergence	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1	28 DE-1
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit
	Code	Code	Code	Code	Code	Code
	14*	15*	16*	17*	18*	19*
10 Diflexx Duo	0.405 lb ai/a	0.405 lb ai/a	0.405 lb ai/a	0.405 lb ai/a	0.405 lb ai/a	0.405 lb ai/a
Liberty	0.585 lb ae/a	0.585 lb ae/a	0.585 lb ae/a	0.585 lb ae/a	0.585 lb ae/a	0.585 lb ae/a
Degree Xtra	2.02 lb ai/a	2.02 lb ai/a	2.02 lb ai/a	2.02 lb ai/a	2.02 lb ai/a	2.02 lb ai/a
N Pak AMS	2.5 % v/v	2.5 % v/v	2.5 % v/v	2.5 % v/v	2.5 % v/v	2.5 % v/v
LSD P=.05	1.9	1.8	.	.	.	0.4
Standard Deviation	1.1	1.0	0.0	0.0	0.0	0.2
CV	1.14	1.05	0.0	0.0	0.0	0.27
Levene's F	0.563	1.059	0.00	0.00	0.00	0.889
Levene's Prob(F)	0.795	0.432	.	.	.	0.552
Skewness	0.4281	-0.5967	-2.8091*	-2.8091*	-2.8091*	-2.8088*
Kurtosis	-0.755	-0.2422	6.3081*	6.3081*	6.3081*	6.3068*
Replicate F	0.372	2.607	0.000	0.000	0.000	2.250
Replicate Prob(F)	0.6951	0.1047	1.0000	1.0000	1.0000	0.1342
Treatment F	1.744	1.991	0.000	0.000	0.000	50551.005
Treatment Prob(F)	0.1635	0.1147	1.0000	1.0000	1.0000	0.0001

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 * Adjusted means
 Excluded replicate 2 in column 12
 Could not calculate LSD (% mean diff) for columns 6,7,8,12,16,17,18,23,24,25,30,31,32 because error mean square = 0.

The Ohio State University

Trial ID: 18DIFLEXXDUO Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: HP18USAWME Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	AMARE
Pest Name	Giant foxtail	Common Giant barnyar>	Giant ragweed	common lambsqu>	velvetleaf	Redroot pigweed
Crop Code						
Crop Name						
Rating Date	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28	28 28
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1
Number of Decimals	0	0	0	0	0	0

Trt Treatment	Rate	Rate Unit	Appl Code	20*	21*	22*	23*	24*	25*
1 UTC				0 d	0 e	0 b	0 -	0 -	0 -
2 Diflexx Duo	0.405 lb ai/a	A		97 abc	98 abc	98 a	100 -	100 -	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
3 Diflexx Duo	0.304 lb ai/a	A		97 bc	97 cd	98 a	100 -	100 -	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
4 Diflexx Duo	0.304 lb ai/a	A		92	93	97 a	100 -	100 -	100 -
Liberty	0.585 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
5 Capreno	0.081 lb ai/a	A		98 ab	98 abc	98 a	100 -	100 -	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
6 Halex GT	1.97 lb ai/a	A		98 ab	98 abc	99 a	100 -	100 -	100 -
AAtrex	0.5 lb ai/a	A							
NIS	0.25 % v/v	A							
N Pak AMS	2.5 % v/v	A							
7 Armezon Pro	0.67 lb ai/a	A		98 ab	99 ab	99 a	100 -	100 -	100 -
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
8 Armezon	0.0125 lb ai/a	A		97 bc	97 bcd	99 a	100 -	100 -	100 -
Status	0.105 lb ai/a	A							
Roundup PowerMax	1.13 lb ae/a	A							
AAtrex	0.5 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
9 Diflexx Duo	0.405 lb ai/a	A		99 a	99 a	97 a	100 -	100 -	100 -
Roundup PowerMax	1.13 lb ae/a	A							
Degree Xtra	2.02 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							

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 Protocol ID: HP18USAWME Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	AMARE			
Pest Name	Giant foxtail	Common Giant ragweed barnyar>		common lambsqu>	velvetleaf	Redroot pigweed			
Crop Code									
Crop Name									
Rating Date	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018	Jun-21-2018			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1			
Days After First/Last Applic.	28 28	28 28	28 28	28 28	28 28	28 28			
Trt-Eval Interval	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A	28 DA-A			
Days After Emergence	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1	42 DE-1			
Number of Decimals	0	0	0	0	0	0			
Trt Treatment	Rate	Unit	Appl Code	20*	21*	22*	23*	24*	25*
10 Diflexx Duo	0.405 lb ai/a	A		96 c	96 d	98 a	100 -	100 -	100 -
Liberty	0.585 lb ae/a	A							
Degree Xtra	2.02 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
LSD P=.05				1.3	1.1	1.4	.	.	.
Standard Deviation				0.7	0.6	0.8	0.0	0.0	0.0
CV				0.83	0.7	0.9	0.0	0.0	0.0
Levene's F				0.646	0.458	0.727	0.00	0.00	0.00
Levene's Prob(F)				0.73	0.869	0.68	.	.	.
Skewness				-2.6167*	-2.6174*	-2.8027*	-2.8091*	-2.8091*	-2.8091*
Kurtosis				5.2449*	5.2472*	6.2853*	6.3081*	6.3081*	6.3081*
Replicate F				2.195	2.800	8.895	0.000	0.000	0.000
Replicate Prob(F)				0.1438	0.0906	0.0021	1.0000	1.0000	1.0000
Treatment F				6082.744	8635.601	4557.755	0.000	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	0.0001	1.0000	1.0000	1.0000

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The Ohio State University

Trial ID: 18DIFLEXXDUO Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: HP18USAWME Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	
Pest Code	IPOHE	SETFA	ECHCG	AMBTR	CHEAL	ABUTH	
Pest Name	ivy-leaf mornn>		Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf
Crop Code							
Crop Name							
Rating Date	Jun-21-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
Rating Unit	%	%	%	%	%	%	
Number of Subsamples	1	1	1	1	1	1	
Days After First/Last Applic.	28 28	42 42	42 42	42 42	42 42	42 42	
Trt-Eval Interval	28 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	
Days After Emergence	42 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	
Number of Decimals	0	0	0	0	0	0	

Trt No.	Treatment Name	Rate	Unit	Appl Code	26*	27*	28*	29*	30*	31*
1	UTC				0 b	0 c	0 b	0 b	0 -	0 -
2	Diflexx Duo	0.405 lb ai/a	A		100 a	98 a	99 a	99 a	100 -	100 -
	Roundup PowerMax	1.13 lb ae/a	A							
	AAtrex	0.5 lb ai/a	A							
	N Pak AMS	2.5 % v/v	A							
3	Diflexx Duo	0.304 lb ai/a	A		100 a	98 a	99 a	98 a	100 -	100 -
	Roundup PowerMax	1.13 lb ae/a	A							
	AAtrex	0.5 lb ai/a	A							
	N Pak AMS	2.5 % v/v	A							
4	Diflexx Duo	0.304 lb ai/a	A		100 a	91 b	92 a	96 a	100 -	100 -
	Liberty	0.585 lb ae/a	A							
	AAtrex	0.5 lb ai/a	A							
	N Pak AMS	2.5 % v/v	A							
5	Capreno	0.081 lb ai/a	A		100 a	98 a	69 a	95 a	100 -	100 -
	Roundup PowerMax	1.13 lb ae/a	A							
	AAtrex	0.5 lb ai/a	A							
	N Pak AMS	2.5 % v/v	A							
6	Halex GT	1.97 lb ai/a	A		100 a	98 a	99 a	99 a	100 -	100 -
	AAtrex	0.5 lb ai/a	A							
	NIS	0.25 % v/v	A							
	N Pak AMS	2.5 % v/v	A							
7	Armezon Pro	0.67 lb ai/a	A		100 a	98 a	100 a	99 a	100 -	100 -
	Roundup PowerMax	1.13 lb ae/a	A							
	AAtrex	0.5 lb ai/a	A							
	N Pak AMS	2.5 % v/v	A							
8	Armezon	0.0125 lb ai/a	A		100 a	97 a	99 a	99 a	100 -	100 -
	Status	0.105 lb ai/a	A							
	Roundup PowerMax	1.13 lb ae/a	A							
	AAtrex	0.5 lb ai/a	A							
	N Pak AMS	2.5 % v/v	A							
9	Diflexx Duo	0.405 lb ai/a	A		100 a	100 a	100 a	98 a	100 -	100 -
	Roundup PowerMax	1.13 lb ae/a	A							
	Degree Xtra	2.02 lb ai/a	A							
	N Pak AMS	2.5 % v/v	A							

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* Adjusted means

Excluded replicate 2 in column 12

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The Ohio State University

Trial ID: 18DIFLEXXDUO Location: Western Branch G-6 Trial Year: 2018
 Protocol ID: HP18USAWME Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	IPHOE	SETFA	ECHCG	AMBTR	CHEAL	ABUTH			
Pest Name	ivy-leaf mornn>		Giant foxtail	Common barnyar>	Giant ragweed	common lambsqu>	velvetleaf		
Crop Code									
Crop Name									
Rating Date	Jun-21-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018	Jul-5-2018		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1		
Days After First/Last Applic.	28 28	42 42	42 42	42 42	42 42	42 42	42 42		
Trt-Eval Interval	28 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A	42 DA-A		
Days After Emergence	42 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1	56 DE-1		
Number of Decimals	0	0	0	0	0	0	0		
Trt Treatment No. Name	Rate	Unit	Appl Code	26*	27*	28*	29*	30*	31*
10 Diflexx Duo	0.405 lb ai/a	A		100 a	97 a	99 a	98 a	100 -	100 -
Liberty	0.585 lb ae/a	A							
Degree Xtra	2.02 lb ai/a	A							
N Pak AMS	2.5 % v/v	A							
LSD P=.05				0.5	1.9 - 4.7	27.8	4.8 - 4.8	.	.
Standard Deviation				0.3	3.3t	16.2	5.1t	0.0	0.0
CV				0.35	4.57t	18.91	6.94t	0.0	0.0
Levene's F				0.778	0.671	0.937	0.797	0.00	0.00
Levene's Prob(F)				0.639	0.726	0.516	0.623	.	.
Skewness				-2.8086*	-2.6596*	-2.2366*	-2.6114*	-2.8091*	-2.8091*
Kurtosis				6.3062*	5.7456*	3.311*	5.5641*	6.3081*	6.3081*
Replicate F				1.000	1.079	1.498	1.657	0.000	0.000
Replicate Prob(F)				0.3874	0.3609	0.2502	0.2185	1.0000	1.0000
Treatment F				29934.114	181.020	11.376	77.780	0.000	0.000
Treatment Prob(F)				0.0001	0.0001	0.0001	0.0001	1.0000	1.0000

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Excluded replicate 2 in column 12

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 Protocol ID: HP18USAWME Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

Pest Type	W Weed	W Weed
Pest Code	AMARE	IPOHE
Pest Name	Redroot ivy-leaf morni>	Redroot ivy-leaf morni>
	pigweed	
Crop Code		
Crop Name		
Rating Date	Jul-5-2018	Jul-5-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	42 42	42 42
Trt-Eval Interval	42 DA-A	42 DA-A
Days After Emergence	56 DE-1	56 DE-1
Number of Decimals	0	0

Trt No.	Treatment Name	Rate	Unit	Appl Code	32*	33*
1	UTC				0 -	0 b
2	Diflexx Duo	0.405 lb ai/a	A		100 -	100 a
	Roundup PowerMax	1.13 lb ae/a	A			
	AAtrex	0.5 lb ai/a	A			
	N Pak AMS	2.5 % v/v	A			
3	Diflexx Duo	0.304 lb ai/a	A		100 -	100 a
	Roundup PowerMax	1.13 lb ae/a	A			
	AAtrex	0.5 lb ai/a	A			
	N Pak AMS	2.5 % v/v	A			
4	Diflexx Duo	0.304 lb ai/a	A		100 -	100 a
	Liberty	0.585 lb ae/a	A			
	AAtrex	0.5 lb ai/a	A			
	N Pak AMS	2.5 % v/v	A			
5	Capreno	0.081 lb ai/a	A		100 -	100 a
	Roundup PowerMax	1.13 lb ae/a	A			
	AAtrex	0.5 lb ai/a	A			
	N Pak AMS	2.5 % v/v	A			
6	Halex GT	1.97 lb ai/a	A		100 -	100 a
	AAtrex	0.5 lb ai/a	A			
	NIS	0.25 % v/v	A			
	N Pak AMS	2.5 % v/v	A			
7	Armezon Pro	0.67 lb ai/a	A		100 -	100 a
	Roundup PowerMax	1.13 lb ae/a	A			
	AAtrex	0.5 lb ai/a	A			
	N Pak AMS	2.5 % v/v	A			
8	Armezon	0.0125 lb ai/a	A		100 -	100 a
	Status	0.105 lb ai/a	A			
	Roundup PowerMax	1.13 lb ae/a	A			
	AAtrex	0.5 lb ai/a	A			
	N Pak AMS	2.5 % v/v	A			
9	Diflexx Duo	0.405 lb ai/a	A		100 -	100 a
	Roundup PowerMax	1.13 lb ae/a	A			
	Degree Xtra	2.02 lb ai/a	A			
	N Pak AMS	2.5 % v/v	A			

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 Protocol ID: HP18USAWME Investigator: Dr. Mark M. Loux
 Project ID: Study Director: Anthony Dobbels
 Sponsor Contact: David Lamore, Bayer CropScience

Pest Type	W Weed	W Weed
Pest Code	AMARE	IPOHE
Pest Name	Redroot ivy-leaf morni> pigweed	
Crop Code		
Crop Name		
Rating Date	Jul-5-2018	Jul-5-2018
Rating Type	CONTRO	CONTRO
Rating Unit	%	%
Number of Subsamples	1	1
Days After First/Last Applic.	42 42	42 42
Trt-Eval Interval	42 DA-A	42 DA-A
Days After Emergence	56 DE-1	56 DE-1
Number of Decimals	0	0
Trt Treatment	Rate	Appl
No. Name	Rate	Unit Code
10 Diflexx Duo	0.405 lb ai/a	A
Liberty	0.585 lb ae/a	A
Degree Xtra	2.02 lb ai/a	A
N Pak AMS	2.5 % v/v	A
LSD P=.05	.	0.5
Standard Deviation	0.0	0.3
CV	0.0	0.35
Levene's F	0.00	0.778
Levene's Prob(F)	.	0.639
Skewness	-2.8091*	-2.8086*
Kurtosis	6.3081*	6.3062*
Replicate F	0.000	1.000
Replicate Prob(F)	1.0000	0.3874
Treatment F	0.000	29934.114
Treatment Prob(F)	1.0000	0.0001

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Project ID: 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
ECHCG, Echinochloa crus-galli, Common barnyard grass = US
AMBTR, Ambrosia trifida, Giant ragweed = US
CHEAL, Chenopodium album, common lambsquarters = US
ABUTH, Abutilon theophrasti, velvetleaf = US
AMARE, Amaranthus retroflexus, Redroot pigweed = US
IPOHE, Ipomoea hederacea, ivy-leaf morning glory = US

Crop Code

ZEAMX, BCOR, Zea mays, Corn = US

Rating Type

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

Rating Unit

% = percent