

# The Ohio State University

## Corvus fb DiFlexx

Trial ID: 14PROC4      Location: Western Branch F-7      Trial Year: 2014  
 Protocol ID: 14PRPOC4      Investigator: Dr. Mark M. Loux  
 Project ID: HP14USABLP      Study Director: Anthony Dobbels  
 Sponsor Contact: David Lamore, Bayer CropScience

### Crop Description

**Crop 1:** ZEAMX      Zea mays  
**Variety:** Pioneer P1184AM  
**Description:** RR/LL

**BBCH Scale:** BCOR

Corn  
**Planting Date:** Apr-26-2014  
**Planting Method:** SEEDED seeded  
**Planting Equipment:** FPP      Finger Pickup Planter  
**Emergence Date:** May-12-2014

**Planting Rate, Unit:** 32097      S/A  
**Depth, Unit:** 1.75 IN  
**Row Spacing, Unit:** 30 IN  
**Soil Temperature, Unit:** 56 F  
**Soil Moisture:** NORMAL normal, adequate  
**Seed Bed:** MEDIUM medium

### 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:** ABUTH    Abutilon theophrasti  
**Common Name:** velvetleaf
- Pest 5 Type:** W    **Code:** AMARE    Amaranthus retroflexus  
**Common Name:** Redroot pigweed
- Pest 6 Type:** W    **Code:** POLPY    Persicaria pensylvanica  
**Common Name:** Pennsylvania smartweed
- Pest 7 Type:** W    **Code:** SIDSP    Sida spinosa  
**Common Name:** Prickly sida
- Pest 8 Type:** W    **Code:** AMBEL    Ambrosia artemisiifolia  
**Common Name:** Common ragweed

### Site and Design

**Treated Plot Width:** 6.67 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 200.1 FT<sup>2</sup>    **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      2013

### Soil Description

**Description Name:** F-7 West  
**% OM:** 3.8      **Texture:** SICL silty clay loam  
**pH:** 7.2      **Soil Name:** Kokomo  
**CEC:** 23.6      **Fert. Level:** G good  
**Soil Drainage:** G good

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## Application Description

	A	B
Application Date:	Apr-26-2014	Jun-5-2014
Appl. Start Time:	7:00 PM	10:30 AM
Appl. Stop Time:	7:30 PM	11:00 AM
Application Method:	SPRAY	SPRAY
Application Timing:	PRE	POST
Application Placement:	BROSOL	BROFOL
Applied By:	Loux	Ackley
Air Temperature, Unit:	74 F	66 f
% Relative Humidity:	47	73
Wind Velocity, Unit:	7 MPH	5.5 MPH
Wind Direction:	N	W
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	62 F	62 F
Soil Moisture:	NORMAL	MOIST
% Cloud Cover:	5	10
Next Moisture Occurred On:	Apr-28-2014	Jun-8-2014
Time to Next Moisture, Unit:	1.5 DAY	3 DAY

## Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:		DESC
Stage Majority, Percent:		15 100
Height, Unit:		22 IN
Height Minimum, Maximum:		20 22

## Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:		15 100
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Density, Unit:		153 M2
Pest 2 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:		19
Height, Unit:		2.5 IN
Height Minimum, Maximum:		1 4
Density, Unit:		8.66 M2
Pest 3 Code, Type, Scale:	CHEAL W	CHEAL W
Density, Unit:		6 M2
Pest 4 Code, Type, Scale:	ABUTH W	ABUTH W
Density, Unit:		7 M2
Pest 5 Code, Type, Scale:	AMARE W	AMARE W
Density, Unit:		6.33 M2
Pest 6 Code, Type, Scale:	POLPY W	POLPY W
Stage Majority, Percent:		19
Density, Unit:		3.33 M2
Pest 7 Code, Type, Scale:	SIDSP W	SIDSP W
Height, Unit:		3 IN
Height Minimum, Maximum:		2 4
Pest 8 Code, Type, Scale:	AMBEL W	AMBEL W
Density, Unit:		2.33 M2

## Application Equipment

	A	B
Appl. Equipment:	6 FOOT BOOM	6 FOOT BOOM
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	46 PSI	46 PSI
Nozzle Type:	AI XR	AI XR
Nozzle Size:	110015	110015
Nozzle Spacing, Unit:	18 IN	18 IN
Boom Length, Unit:	6.67 FT	6.67 FT
Boom Height, Unit:	20 IN	20 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	WATER	WATER
Spray Volume, Unit:	15 GPA	15 GPA
Mix Size, Unit:	1 Liters	1 Liters
Propellant:	CO2	CO2

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## Corvus fb DiFlexx

Trial ID: 14PROC4      Location: Western Branch F-7      Trial Year: 2014  
 Protocol ID: 14PRPOC4      Investigator: Dr. Mark M. Loux  
 Project ID: HP14USABLP      Study Director: Anthony Dobbels  
 Sponsor Contact: David Lamore, Bayer CropScience

Pest Type				W Weed	W Weed	W Weed
Pest Code				SETFA	AMBTR	AMBEL
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Ambrosia artem>
Pest Name				Giant foxtail	Giant ragweed	Common ragweed
Crop Code		ZEAMX	ZEAMX			
BBCH Scale		BCOR	BCOR			
Crop Scientific Name		Zea mays	Zea mays			
Crop Name		Corn	Corn			
Rating Date		May-26-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014
Rating Type		PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit		%	%	%	%	%
Number of Subsamples		1	1	1	1	1
SE Group No.		1	3	2	2	2
Rating Timing			AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.		30 30	38 38	38 38	38 38	38 38
Trt-Eval Interval		30 DA-A	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B
Plant-Eval Interval		30 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence		14 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1
ARM Action Codes					ET1	
Number of Decimals		0	0	0	0	0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	1	2	3	4	5
1	Atrazine	1 lb ai/a		1 qt/a		A	0	0	50	47	70
2	Corvus	0.068 lb ai/a		3.3 oz/a		A	0	0	98	73	100
2	Atrazine	1 lb ai/a		1 qt/a		A					
2	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B					
2	N PAK AMS	2.5 % v/v		1.5 qt/a		B					
3	Corvus	0.068 lb ai/a		3.3 oz/a		A	0	0	96	72	100
3	Atrazine	1 lb ai/a		1 qt/a		A					
3	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B					
3	Clarity	0.25 lb ai/a		8 oz/a		B					
3	NIS	0.25 % v/v		4.8 oz/a		B					
3	N PAK AMS	2.5 % v/v		1.5 qt/a		B					
4	Corvus	0.068 lb ai/a		3.3 oz/a		A	0	0	98	70	100
4	Atrazine	1 lb ai/a		1 qt/a		A					
4	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B					
4	Clarity	0.5 lb ai/a		16 oz/a		B					
4	NIS	0.25 % v/v		4.8 oz/a		B					
4	N PAK AMS	2.5 % v/v		1.5 qt/a		B					
5	Corvus	0.068 lb ai/a		3.3 oz/a		A	0	0	95	72	100
5	Atrazine	1 lb ai/a		1 qt/a		A					
5	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B					
5	DiFlexx	0.263 lb ai/a		8 oz/a		B					
5	COC	1 % v/v		19.2 oz/a		B					
5	N PAK AMS	2.5 % v/v		1.5 qt/a		B					
6	Corvus	0.068 lb ai/a		3.3 oz/a		A	0	0	98	73	100
6	Atrazine	1 lb ai/a		1 qt/a		A					
6	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B					
6	DiFlexx	0.525 lb ai/a		16 oz/a		B					
6	COC	1 % v/v		19.2 oz/a		B					
6	N PAK AMS	2.5 % v/v		1.5 qt/a		B					

t=Mean descriptions are reported in transformed data units, and are not de-transformed.

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Pest Type				W Weed	W Weed	W Weed				
Pest Code				SETFA	AMBTR	AMBEL				
Pest Scientific Name				Setaria faberi	Ambrosia trifi>	Ambrosia artem>				
Pest Name				Giant foxtail	Giant ragweed	Common ragweed				
Crop Code	ZEAMX	ZEAMX								
BBCH Scale	BCOR	BCOR								
Crop Scientific Name	Zea mays	Zea mays								
Crop Name	Corn	Corn								
Rating Date	May-26-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014				
Rating Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1				
SE Group No.	1	3	2	2	2	2				
Rating Timing		AT POST	AT POST	AT POST	AT POST	AT POST				
Days After First/Last Applic.	30 30	38 38	38 38	38 38	38 38	38 38				
Trt-Eval Interval	30 DA-A	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B				
Plant-Eval Interval	30 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1				
Days After Emergence	14 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1				
ARM Action Codes				ET1						
Number of Decimals	0	0	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl						
No. Name	Rate Unit	Rate	Rate Unit	Code	1	2	3	4	5	
7 Corvus	0.068 lb ai/a	3.3 oz/a		A	0	0	98	70	100	
7 Atrazine	1 lb ai/a	1 qt/a		A						
7 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B						
7 Laudis	0.082 lb ai/a	3 oz/a		B						
7 DiFlexx	0.263 lb ai/a	8 oz/a		B						
7 MSO	1 % v/v	19.2 oz/a		B						
7 N PAK AMS	2.5 % v/v	1.5 qt/a		B						
8 Corvus	0.068 lb ai/a	3.3 oz/a		A	0	0	98	72	100	
8 Atrazine	1 lb ai/a	1 qt/a		A						
8 Liberty	0.53 lb ae/a	29 oz/a		B						
8 DiFlexx	0.525 lb ai/a	16 oz/a		B						
8 N PAK AMS	2.5 % v/v	1.5 qt/a		B						
9 Corvus	0.068 lb ai/a	3.3 oz/a		A	0	0	97	70	100	
9 Atrazine	1 lb ai/a	1 qt/a		A						
9 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B						
9 Status	0.175 lb ai/a	5 oz/a		B						
9 COC	1 % v/v	0.6 qt/a		B						
9 N PAK AMS	2.5 % v/v	1.5 qt/a		B						
10 UTC					0	0	0	0	0	
LSD (P=.05)					0.0	0.0	3.7	13.3	0.0	
Standard Deviation					0.0	0.0	2.1	7.7	0.0	
CV					0.0	0.0	2.58	12.52	0.0	
Bartlett's X2					0.0	0.0	1.735	16.299	0.0	
P(Bartlett's X2)					.	.	0.973	0.006*	.	
Skewness					.	.	-2.0191*	-2.1763*	-2.4341*	
Kurtosis					.	.	2.8418*	3.3638*	4.7379*	
Replicate F					0.000	0.000	7.880	3.102	0.000	
Replicate Prob(F)					1.0000	1.0000	0.0035	0.0696	1.0000	
Treatment F					0.000	0.000	701.521	26.753	0.000	
Treatment Prob(F)					1.0000	1.0000	0.0001	0.0001	1.0000	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	CHEAL	ABUTH	AMARE	HIBTR	POLPY				
Pest Scientific Name	Chenopodium al-	Abutilon theop>	Amaranthus ret>	Hibiscus trion>	Persicaria pen>				
Pest Name	Common lambsqu>	velvetleaf	Redroot pigweed	Venice mallow	Pennsylvania s>				
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jun-3-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
SE Group No.	2	2	2	2	2				
Rating Timing	AT POST	AT POST	AT POST	AT POST	AT POST				
Days After First/Last Applic.	38 38	38 38	38 38	38 38	38 38				
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B				
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1				
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1				
ARM Action Codes									
Number of Decimals	0	0	0	0	0				
Trt Treatment	Rate	Other Rate	Other Rate	Appl Unit Code	6	7	8	9	10
No. Name	Rate Unit	Rate	Rate	Unit Code					
1 Atrazine	1 lb ai/a	1 qt/a		A	70	70	70	70	70
2 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	100	100	90
2 Atrazine	1 lb ai/a	1 qt/a		A					
2 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
2 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
3 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	100	100	100
3 Atrazine	1 lb ai/a	1 qt/a		A					
3 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
3 Clarity	0.25 lb ai/a	8 oz/a		B					
3 NIS	0.25 % v/v	4.8 oz/a		B					
3 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
4 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	100	100	90
4 Atrazine	1 lb ai/a	1 qt/a		A					
4 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
4 Clarity	0.5 lb ai/a	16 oz/a		B					
4 NIS	0.25 % v/v	4.8 oz/a		B					
4 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
5 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	100	100	100
5 Atrazine	1 lb ai/a	1 qt/a		A					
5 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
5 DiFlexx	0.263 lb ai/a	8 oz/a		B					
5 COC	1 % v/v	19.2 oz/a		B					
5 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
6 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	100	100	100
6 Atrazine	1 lb ai/a	1 qt/a		A					
6 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
6 DiFlexx	0.525 lb ai/a	16 oz/a		B					
6 COC	1 % v/v	19.2 oz/a		B					
6 N PAK AMS	2.5 % v/v	1.5 qt/a		B					

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	CHEAL	ABUTH	AMARE	HIBTR	POLPY
Pest Scientific Name	Chenopodium al-	Abutilon theop>	Amaranthus ret>	Hibiscus trion>	Persicaria pen>
Pest Name	Common lambsqu>	velvetleaf	Redroot pigweed	Venice mallow	Pennsylvania s>
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-3-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014	Jun-3-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
SE Group No.	2	2	2	2	2
Rating Timing	AT POST	AT POST	AT POST	AT POST	AT POST
Days After First/Last Applic.	38 38	38 38	38 38	38 38	38 38
Trt-Eval Interval	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B	-2 DA-B
Plant-Eval Interval	38 DP-1	38 DP-1	38 DP-1	38 DP-1	38 DP-1
Days After Emergence	22 DE-1	22 DE-1	22 DE-1	22 DE-1	22 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl	
No. Name	Rate Unit	Rate	Rate Unit	Code	
7 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
7 Atrazine	1 lb ai/a	1 qt/a		A	100
7 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	100
7 Laudis	0.082 lb ai/a	3 oz/a		B	100
7 DiFlexx	0.263 lb ai/a	8 oz/a		B	100
7 MSO	1 % v/v	19.2 oz/a		B	100
7 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100
8 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
8 Atrazine	1 lb ai/a	1 qt/a		A	100
8 Liberty	0.53 lb ae/a	29 oz/a		B	100
8 DiFlexx	0.525 lb ai/a	16 oz/a		B	100
8 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100
9 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
9 Atrazine	1 lb ai/a	1 qt/a		A	100
9 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	100
9 Status	0.175 lb ai/a	5 oz/a		B	100
9 COC	1 % v/v	0.6 qt/a		B	100
9 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100
10 UTC					0
LSD (P=.05)	0.0	0.0			12.5
Standard Deviation	0.0	0.0			7.3
CV	0.0	0.0			8.59
Bartlett's X2	0.0	0.0			0.0
P(Bartlett's X2)					
Skewness	-2.4341*	-2.4341*			-2.228*
Kurtosis	4.7379*	4.7379*			3.9809*
Replicate F	0.000	0.000			2.250
Replicate Prob(F)	1.0000	1.0000			0.1342
Treatment F	0.000	0.000			55.313
Treatment Prob(F)	1.0000	1.0000			0.0001

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	AMBTR	AMBEL	CHEAL	ABUTH
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Abutilon theop>
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Common lambsqu>	velvetleaf
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-19-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
SE Group No.	4	5	6	7	8
Rating Timing					
Days After First/Last Applic.	54 14	54 14	54 14	54 14	54 14
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	38 DE-1
ARM Action Codes	AA				
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl	
No. Name	Rate Unit	Rate	Rate Unit	Code	
1 Atrazine	1 lb ai/a	1 qt/a		A	0
2 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
2 Atrazine	1 lb ai/a	1 qt/a		A	96
2 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	100
2 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100
3 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
3 Atrazine	1 lb ai/a	1 qt/a		A	96
3 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	100
3 Clarity	0.25 lb ai/a	8 oz/a		B	100
3 NIS	0.25 % v/v	4.8 oz/a		B	100
3 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100
4 Corvus	0.068 lb ai/a	3.3 oz/a		A	99
4 Atrazine	1 lb ai/a	1 qt/a		A	96
4 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	100
4 Clarity	0.5 lb ai/a	16 oz/a		B	100
4 NIS	0.25 % v/v	4.8 oz/a		B	100
4 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100
5 Corvus	0.068 lb ai/a	3.3 oz/a		A	99
5 Atrazine	1 lb ai/a	1 qt/a		A	95
5 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	100
5 DiFlexx	0.263 lb ai/a	8 oz/a		B	100
5 COC	1 % v/v	19.2 oz/a		B	100
5 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100
6 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
6 Atrazine	1 lb ai/a	1 qt/a		A	96
6 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	100
6 DiFlexx	0.525 lb ai/a	16 oz/a		B	100
6 COC	1 % v/v	19.2 oz/a		B	100
6 N PAK AMS	2.5 % v/v	1.5 qt/a		B	100

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	AMBTR	AMBEL	CHEAL	ABUTH				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia artem>	Chenopodium al>	Abutilon theop>				
Pest Name	Giant foxtail	Giant ragweed	Common ragweed	Common lambsqu>	velvetleaf				
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jun-19-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
SE Group No.	4	5	6	7	8				
Rating Timing									
Days After First/Last Applic.	54 14	54 14	54 14	54 14	54 14				
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	14 DA-B				
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	54 DP-1	54 DP-1				
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	38 DE-1	38 DE-1				
ARM Action Codes	AA								
Number of Decimals	0	0	0	0	0				
Trt Treatment	Rate	Other	Other	Appl					
No. Name	Rate Unit	Rate	Rate Unit	Code	11	12	13	14	15
7 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	95	100	100	100
7 Atrazine	1 lb ai/a	1 qt/a		A					
7 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
7 Laudis	0.082 lb ai/a	3 oz/a		B					
7 DiFlexx	0.263 lb ai/a	8 oz/a		B					
7 MSO	1 % v/v	19.2 oz/a		B					
7 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
8 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	96	100	100	100
8 Atrazine	1 lb ai/a	1 qt/a		A					
8 Liberty	0.53 lb ae/a	29 oz/a		B					
8 DiFlexx	0.525 lb ai/a	16 oz/a		B					
8 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
9 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	95	100	100	100
9 Atrazine	1 lb ai/a	1 qt/a		A					
9 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
9 Status	0.175 lb ai/a	5 oz/a		B					
9 COC	1 % v/v	0.6 qt/a		B					
9 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
10 UTC					0	0	0	0	0
LSD (P=.05)					6.4t	2.1	0.0	0.0	0.0
Standard Deviation					3.7t	1.2	0.0	0.0	0.0
CV					5.31	1.59	0.0	0.0	0.0
Bartlett's X2					3.288	0.0	0.0	0.0	0.0
P(Bartlett's X2)					0.772	.	.	.	.
Skewness					-1.5409*	-1.5744*	-1.5801*	-1.5801*	-1.5801*
Kurtosis					0.463	0.5191	0.5274	0.5274	0.5274
Replicate F					2.105	9.000	0.000	0.000	0.000
Replicate Prob(F)					0.1509	0.0020	1.0000	1.0000	1.0000
Treatment F					296.354	3307.000	0.000	0.000	0.000
Treatment Prob(F)					0.0001	0.0001	1.0000	1.0000	1.0000



# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	AMARE	HIBTR	IPOHE	SETFA	AMBTR				
Pest Scientific Name	Amaranthus ret>	Hibiscus trion>	Ipomoea hederata>	Setaria faberi	Ambrosia trifida>				
Pest Name	Redroot pigweed	Venice mallow	Ivyleaf mornin>	Giant foxtail	Giant ragweed				
Crop Code									
BBCH Scale									
Crop Scientific Name									
Crop Name									
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jul-2-2014	Jul-2-2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1				
SE Group No.	19	9	10	11	12				
Rating Timing									
Days After First/Last Applic.	54 14	54 14	54 14	67 27	67 27				
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	27 DA-B	27 DA-B				
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	67 DP-1	67 DP-1				
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	51 DE-1	51 DE-1				
ARM Action Codes									
Number of Decimals	0	0	0	0	0				
Trt Treatment	Rate	Other Rate	Other Rate	Appl Unit Code	16	17	18	19	20
1 Atrazine	1 lb ai/a	1 qt/a		A	0	0	0	0	0
2 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	95	91	83
2 Atrazine	1 lb ai/a	1 qt/a		A					
2 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
2 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
3 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	95	92	87
3 Atrazine	1 lb ai/a	1 qt/a		A					
3 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
3 Clarity	0.25 lb ai/a	8 oz/a		B					
3 NIS	0.25 % v/v	4.8 oz/a		B					
3 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
4 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	95	87	98
4 Atrazine	1 lb ai/a	1 qt/a		A					
4 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
4 Clarity	0.5 lb ai/a	16 oz/a		B					
4 NIS	0.25 % v/v	4.8 oz/a		B					
4 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
5 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	95	80	80
5 Atrazine	1 lb ai/a	1 qt/a		A					
5 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
5 DiFlexx	0.263 lb ai/a	8 oz/a		B					
5 COC	1 % v/v	19.2 oz/a		B					
5 N PAK AMS	2.5 % v/v	1.5 qt/a		B					
6 Corvus	0.068 lb ai/a	3.3 oz/a		A	100	100	95	93	97
6 Atrazine	1 lb ai/a	1 qt/a		A					
6 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B					
6 DiFlexx	0.525 lb ai/a	16 oz/a		B					
6 COC	1 % v/v	19.2 oz/a		B					
6 N PAK AMS	2.5 % v/v	1.5 qt/a		B					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMARE	HIBTR	IPOHE	SETFA	AMBTR
Pest Scientific Name	Amaranthus ret>	Hibiscus trion>	Ipomoea heder>	Setaria faberi	Ambrosia trifi>
Pest Name	Redroot pigweed	Venice mallow	Ivyleaf mornin>	Giant foxtail	Giant ragweed
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jun-19-2014	Jun-19-2014	Jun-19-2014	Jul-2-2014	Jul-2-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
SE Group No.	19	9	10	11	12
Rating Timing					
Days After First/Last Applic.	54 14	54 14	54 14	67 27	67 27
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	54 DP-1	54 DP-1	54 DP-1	67 DP-1	67 DP-1
Days After Emergence	38 DE-1	38 DE-1	38 DE-1	51 DE-1	51 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl	
No. Name	Rate Unit	Rate	Rate Unit	Code	
7 Corvus	0.068 lb ai/a	3.3 oz/a		A	16
7 Atrazine	1 lb ai/a	1 qt/a		A	100
7 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	17
7 Laudis	0.082 lb ai/a	3 oz/a		B	18
7 DiFlexx	0.263 lb ai/a	8 oz/a		B	95
7 MSO	1 % v/v	19.2 oz/a		B	19
7 N PAK AMS	2.5 % v/v	1.5 qt/a		B	90
8 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
8 Atrazine	1 lb ai/a	1 qt/a		A	100
8 Liberty	0.53 lb ae/a	29 oz/a		B	97
8 DiFlexx	0.525 lb ai/a	16 oz/a		B	90
8 N PAK AMS	2.5 % v/v	1.5 qt/a		B	98
9 Corvus	0.068 lb ai/a	3.3 oz/a		A	100
9 Atrazine	1 lb ai/a	1 qt/a		A	100
9 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	95
9 Status	0.175 lb ai/a	5 oz/a		B	93
9 COC	1 % v/v	0.6 qt/a		B	83
9 N PAK AMS	2.5 % v/v	1.5 qt/a		B	
10 UTC					0
LSD (P=.05)	0.0	0.0			1.6
Standard Deviation	0.0	0.0			0.9
CV	0.0	0.0			1.2
Bartlett's X2	0.0	0.0			0.0
P(Bartlett's X2)					1.706
Skewness	-1.5801*	-1.5801*			0.974
Kurtosis	0.5274	0.5274			-1.4145*
Replicate F	0.000	0.000			5802.334
Replicate Prob(F)	1.0000	1.0000			178.160
Treatment F	0.000	0.000			212.507
Treatment Prob(F)	1.0000	1.0000			0.0001

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	CHEAL	AMARE	ABUTH	SIDSP			
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Sida spinosa			
Pest Name	Common ragweed	Common lambsqu>	Redroot pigweed	velvetleaf	Prickly sida			
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Rating Date	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1			
SE Group No.	13	14	15	16	17			
Rating Timing								
Days After First/Last Applic.	67 27	67 27	67 27	67 27	67 27			
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B			
Plant-Eval Interval	67 DP-1	67 DP-1	67 DP-1	67 DP-1	67 DP-1			
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1			
ARM Action Codes								
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Other Other	Appl	21	22	23	24	25
No. Name	Rate Unit	Rate Rate Unit	Code					
1 Atrazine	1 lb ai/a	1 qt/a	A	0	0	0	0	0
2 Corvus	0.068 lb ai/a	3.3 oz/a	A	100	100	100	100	50
2 Atrazine	1 lb ai/a	1 qt/a	A					
2 Roundup PowerMax	1.13 lb ae/a	32 oz/a	B					
2 N PAK AMS	2.5 % v/v	1.5 qt/a	B					
3 Corvus	0.068 lb ai/a	3.3 oz/a	A	100	100	100	100	57
3 Atrazine	1 lb ai/a	1 qt/a	A					
3 Roundup PowerMax	1.13 lb ae/a	32 oz/a	B					
3 Clarity	0.25 lb ai/a	8 oz/a	B					
3 NIS	0.25 % v/v	4.8 oz/a	B					
3 N PAK AMS	2.5 % v/v	1.5 qt/a	B					
4 Corvus	0.068 lb ai/a	3.3 oz/a	A	100	100	100	100	77
4 Atrazine	1 lb ai/a	1 qt/a	A					
4 Roundup PowerMax	1.13 lb ae/a	32 oz/a	B					
4 Clarity	0.5 lb ai/a	16 oz/a	B					
4 NIS	0.25 % v/v	4.8 oz/a	B					
4 N PAK AMS	2.5 % v/v	1.5 qt/a	B					
5 Corvus	0.068 lb ai/a	3.3 oz/a	A	100	100	100	100	57
5 Atrazine	1 lb ai/a	1 qt/a	A					
5 Roundup PowerMax	1.13 lb ae/a	32 oz/a	B					
5 DiFlexx	0.263 lb ai/a	8 oz/a	B					
5 COC	1 % v/v	19.2 oz/a	B					
5 N PAK AMS	2.5 % v/v	1.5 qt/a	B					
6 Corvus	0.068 lb ai/a	3.3 oz/a	A	100	100	100	100	63
6 Atrazine	1 lb ai/a	1 qt/a	A					
6 Roundup PowerMax	1.13 lb ae/a	32 oz/a	B					
6 DiFlexx	0.525 lb ai/a	16 oz/a	B					
6 COC	1 % v/v	19.2 oz/a	B					
6 N PAK AMS	2.5 % v/v	1.5 qt/a	B					

# The Ohio State University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	CHEAL	AMARE	ABUTH	SIDSP
Pest Scientific Name	Ambrosia artem>	Chenopodium al>	Amaranthus ret>	Abutilon theop>	Sida spinosa
Pest Name	Common ragweed	Common lambsqu>	Redroot pigweed	velvetleaf	Prickly sida
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Rating Date	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Number of Subsamples	1	1	1	1	1
SE Group No.	13	14	15	16	17
Rating Timing					
Days After First/Last Applic.	67 27	67 27	67 27	67 27	67 27
Trt-Eval Interval	27 DA-B	27 DA-B	27 DA-B	27 DA-B	27 DA-B
Plant-Eval Interval	67 DP-1	67 DP-1	67 DP-1	67 DP-1	67 DP-1
Days After Emergence	51 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1
ARM Action Codes					
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Other	Other	Appl	
No. Name	Rate Unit	Rate	Rate Unit	Code	
7 Corvus	0.068 lb ai/a	3.3 oz/a		A	21 100 22 100 23 100 24 100 25 57
7 Atrazine	1 lb ai/a	1 qt/a		A	
7 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	
7 Laudis	0.082 lb ai/a	3 oz/a		B	
7 DiFlexx	0.263 lb ai/a	8 oz/a		B	
7 MSO	1 % v/v	19.2 oz/a		B	
7 N PAK AMS	2.5 % v/v	1.5 qt/a		B	
8 Corvus	0.068 lb ai/a	3.3 oz/a		A	100 100 100 98 73
8 Atrazine	1 lb ai/a	1 qt/a		A	
8 Liberty	0.53 lb ae/a	29 oz/a		B	
8 DiFlexx	0.525 lb ai/a	16 oz/a		B	
8 N PAK AMS	2.5 % v/v	1.5 qt/a		B	
9 Corvus	0.068 lb ai/a	3.3 oz/a		A	100 100 100 100 60
9 Atrazine	1 lb ai/a	1 qt/a		A	
9 Roundup PowerMax	1.13 lb ae/a	32 oz/a		B	
9 Status	0.175 lb ai/a	5 oz/a		B	
9 COC	1 % v/v	0.6 qt/a		B	
9 N PAK AMS	2.5 % v/v	1.5 qt/a		B	
10 UTC					0 0 0 0 0
LSD (P=.05)	0.0	0.0			0.0 1.6 25.2
Standard Deviation	0.0	0.0			0.0 0.9 14.7
CV	0.0	0.0			0.0 1.14 29.82
Bartlett's X2	0.0	0.0			0.0 0.0 3.548
P(Bartlett's X2)					. 0.83
Skewness	-1.5801*	-1.5801*			-1.5801* -1.5782* -0.3444
Kurtosis	0.5274	0.5274			0.5274 0.5243 -0.9657
Replicate F	0.000	0.000			0.000 1.000 11.986
Replicate Prob(F)	1.0000	1.0000			1.0000 0.3874 0.0005
Treatment F	0.000	0.000			0.000 6374.334 10.264
Treatment Prob(F)	1.0000	1.0000			1.0000 0.0001 0.0001

# The Ohio State University

Pest Type W Weed  
 Pest Code IPOHE  
 Pest Scientific Name Ipomoea hederata>  
 Pest Name Ivyleaf mornin>  
 Crop Code  
 BBCH Scale  
 Crop Scientific Name  
 Crop Name  
 Rating Date Jul-2-2014  
 Rating Type CONTRO  
 Rating Unit %  
 Number of Subsamples 1  
 SE Group No. 18  
 Rating Timing  
 Days After First/Last Applic. 67 27  
 Trt-Eval Interval 27 DA-B  
 Plant-Eval Interval 67 DP-1  
 Days After Emergence 51 DE-1  
 ARM Action Codes  
 Number of Decimals 0

Trt No.	Treatment Name	Rate	Unit	Other Rate	Other Unit	Appl Code	
							26
1	Atrazine	1 lb ai/a		1 qt/a		A	0
2	Corvus	0.068 lb ai/a		3.3 oz/a		A	70
2	Atrazine	1 lb ai/a		1 qt/a		A	
2	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B	
2	N PAK AMS	2.5 % v/v		1.5 qt/a		B	
3	Corvus	0.068 lb ai/a		3.3 oz/a		A	78
3	Atrazine	1 lb ai/a		1 qt/a		A	
3	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B	
3	Clarity	0.25 lb ai/a		8 oz/a		B	
3	NIS	0.25 % v/v		4.8 oz/a		B	
3	N PAK AMS	2.5 % v/v		1.5 qt/a		B	
4	Corvus	0.068 lb ai/a		3.3 oz/a		A	80
4	Atrazine	1 lb ai/a		1 qt/a		A	
4	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B	
4	Clarity	0.5 lb ai/a		16 oz/a		B	
4	NIS	0.25 % v/v		4.8 oz/a		B	
4	N PAK AMS	2.5 % v/v		1.5 qt/a		B	
5	Corvus	0.068 lb ai/a		3.3 oz/a		A	77
5	Atrazine	1 lb ai/a		1 qt/a		A	
5	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B	
5	DiFlexx	0.263 lb ai/a		8 oz/a		B	
5	COC	1 % v/v		19.2 oz/a		B	
5	N PAK AMS	2.5 % v/v		1.5 qt/a		B	
6	Corvus	0.068 lb ai/a		3.3 oz/a		A	80
6	Atrazine	1 lb ai/a		1 qt/a		A	
6	Roundup PowerMax	1.13 lb ae/a		32 oz/a		B	
6	DiFlexx	0.525 lb ai/a		16 oz/a		B	
6	COC	1 % v/v		19.2 oz/a		B	
6	N PAK AMS	2.5 % v/v		1.5 qt/a		B	



# The Ohio State University

## Corvus fb DiFlexx

Trial ID: 14PROC4                      Location: Western Branch F-7                      Trial Year: 2014  
Protocol ID: 14PRPOC4                      Investigator: Dr. Mark M. Loux  
Project ID: HP14USABLP                      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, = US  
AMBTR, Ambrosia trifida, = US  
AMBEL, Ambrosia artemisiifolia, = US  
CHEAL, Chenopodium album, = US  
ABUTH, Abutilon theophrasti, = US  
AMARE, Amaranthus retroflexus, = US  
HIBTR, Hibiscus trionum, = US  
POLPY, Persicaria pensylvanica, = US  
IPOHE, Ipomoea hederacea, = US  
SIDSP, Sida spinosa, = US

### Crop Code

ZEAMX, BCOR, Zea mays, = US

### Rating Type

PHYGEN = phytotoxicity - general / injury  
CONTRO = control / burndown or knockdown

### Rating Unit

% = percent

### Plant-Eval Interval

30 DP-1 = 1 ZEAMX Apr-26-2014  
38 DP-1 = 1 ZEAMX Apr-26-2014  
54 DP-1 = 1 ZEAMX Apr-26-2014  
67 DP-1 = 1 ZEAMX Apr-26-2014

### ARM Action Codes

AA = Automatic arcsine square root % transformation