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Diflexx, Corvus, Balance Flexx / Field Corn / Eff. Tol

Trial ID: 14S-THP-CTC-06 Protocol ID: 14S-THP-CTC-06
 Location: Throckmorton Study Director:
 Project ID: HP14USABLP Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Alan Kurtz

General Trial Information

Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: E established

Trial Location

City: Lafayette
State/Prov.: IN
Postal Code: 47909
Country: USA

Personnel

Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Throckmorton Purdue Ag Center **Role:** Purdue Ag Center
Organization: Purdue University
Address 1: 8343 US 231 S
City: Lafayette
State/Prov.: IN
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States
Phone No.: 765-538-3422
Fax No.: 765-538-3423

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: Dekalb DKC 62-08 **Description:** HXX, LL, RR2
BBCH Scale: BCOR **Planting Date:** May-5-2014
Planting Method: SEEDED seeded **Rate, Unit:** 33000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Seed Bed: FINE fine
Soil Moisture: DRY dry **Emergence Date:** May-12-2014

Pest Description

Pest 1 Type: W **Code:** AMBTR Ambrosia trifida
Common Name: Giant ragweed
Pest 2 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail
Pest 3 Type: W **Code:** CHEAL Chenopodium album
Common Name: Common lambsquarters
Pest 4 Type: W **Code:** ABUTH Abutilon theophrasti
Common Name: velvetleaf

Site and Design

Plot Width, Unit: 10 FT **Site Type:** FIELD field
Plot Length, Unit: 30 FT **Experimental Unit:** 1 PLOT plot
Plot Area, Unit: 300 FT2 **Tillage Type:** CONTIL conventional-till
Replications: 4 **Study Design:** RACOB Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

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Soil Description

Description Name: TPAC -Field 4A
% OM: 3.1 **Texture:** SIL silt loam
pH: 6 **Soil Name:** Toronto-Millbrook
CEC: 11.1

Application Description

	A	B
Application Date:	May-6-2014	Jun-6-2014
Time of Day:	AM	AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	LAPOCR
Application Placement:	SOIL	FOLIAR
Air Temperature, Unit:	75.1 F	72 F
% Relative Humidity:	32.5	66
Wind Velocity, Unit:	9.6 mph	4.5 MPH
Wind Direction:	SW	S
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	67.5 F	70 F
Soil Moisture:	Dry	SLIWET
% Cloud Cover:	10	0

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		15

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	AMBTR W
Height, Unit:	4 IN
Height Minimum, Maximum:	3 5
Density, Unit:	2 FT2
Pest 2 Code, Type, Scale:	SETFA W
Height, Unit:	2 IN
Height Minimum, Maximum:	1 2
Density, Unit:	3 YD2
Pest 3 Code, Type, Scale:	CHEAL W
Height, Unit:	1.5 IN
Height Minimum, Maximum:	1 2
Density, Unit:	1 YD2
Pest 4 Code, Type, Scale:	ABUTH W
Height, Unit:	2 IN
Height Minimum, Maximum:	1 2
Density, Unit:	1 YD2

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Application Equipment

	A	B
Appl. Equipment:	CO2 FORD	CO2 FORD
Equipment Type:	SPTRMO	SPTRMO
Operation Pressure, Unit:	25 PSI	25 PSI
Nozzle Type:	FLAT FAN	FLAT FAN
Nozzle Size:	XR 100 02	XR 100 02
Nozzle Spacing, Unit:	20 IN	20 IN
Nozzles/Row:	6	6
Boom Length, Unit:	10 FT	10 FT
Ground Speed, Unit:	2.1 MPH	2.1 MPH
Carrier:	MEIGS	MEIGS
Spray Volume, Unit:	20 gal/ac	20 gal/ac
Mix Size, Unit:	2.5 liters	2.5 liters
Propellant:	CO2	CO2

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Diflexx, Corvus, Balance Flexx / Field Corn / Eff. Tol

Trial ID: 14S-THP-CTC-06 Protocol ID: 14S-THP-CTC-06
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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 20 gal/ac Mix size: 2.5 liters (min 2.0856)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate	Other Rate	Other Unit	Growth Stage	Appl Code	Appl Description	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check												101	504	801	803
2	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.84 oz ai/a	5.6 fl oz/a		ATPLAN A			5.465 ml/mx		102	303	601	902
	Atrazine	4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
3	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		103	304	704	1001
	Atrazine	4 LBA/GAL	F		1.51 lb ai/a	1.51 qt/a		ATPLAN A			47.18 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL	SL		1.13 lb ae/a	32 fl oz/a		LAPOCR B		V4-7 CORN	31.39 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal	20 qt/100 gal		LAPOCR B		V4-7 CORN	125.0 ml/mx					
4	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		104	404	702	901
	Atrazine	4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL	SL		1.13 lb ae/a	32 fl oz/a		LAPOCR B		V4-7 CORN	31.39 ml/mx					
	Clarity (4 SL)	4 LBAE/GAL	SL		0.25 lb ae/a	8 fl oz/a		LAPOCR B		V4-7 CORN	7.812 ml/mx					
	NIS	100 %	SL		0.25 % v/v	0.25 % v/v		LAPOCR B		V4-7 CORN	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal	20 qt/100 gal		LAPOCR B		V4-7 CORN	125.0 ml/mx					
5	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		201	503	604	1003
	Atrazine	4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL	SL		1.13 lb ae/a	32 fl oz/a		LAPOCR B		V4-7 CORN	31.39 ml/mx					
	Clarity (4 SL)	4 LBAE/GAL	SL		0.5 lb ae/a	16 fl oz/a		LAPOCR B		V4-7 CORN	15.62 ml/mx					
	NIS	100 %	SL		0.25 % v/v	0.25 % v/v		LAPOCR B		V4-7 CORN	6.249 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal	20 qt/100 gal		LAPOCR B		V4-7 CORN	125.0 ml/mx					
6	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		202	403	703	1004
	Atrazine	4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL	SL		1.13 lb ae/a	32 fl oz/a		LAPOCR B		V4-7 CORN	31.39 ml/mx					
	DiFlexx (506 SC)	506 GAE/L	SL		0.264 lb ae/a	8 fl oz/a		LAPOCR B		V4-7 CORN	7.825 ml/mx					
	COC	100 %	SL		1 % v/v	1 % v/v		LAPOCR B		V4-7 CORN	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal	20 qt/100 gal		LAPOCR B		V4-7 CORN	125.0 ml/mx					
7	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		203	501	802	1002
	Atrazine	4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL	SL		1.13 lb ae/a	32 fl oz/a		LAPOCR B		V4-7 CORN	31.39 ml/mx					
	DiFlexx (4.22 SL)	4.22 LB/GAL	SL		0.53 lb ai/a	16 fl oz/a		LAPOCR B		V4-7 CORN	15.7 ml/mx					
	COC	100 %	SL		1 % v/v	1 % v/v		LAPOCR B		V4-7 CORN	25.0 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal	20 qt/100 gal		LAPOCR B		V4-7 CORN	125.0 ml/mx					
8	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		204	502	603	903
	Atrazine	4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
	Roundup PowerMax 4.5 SL	4.5 LBAE/GAL	SL		1.13 lb ae/a	32 fl oz/a		LAPOCR B		V4-7 CORN	31.39 ml/mx					
	Laudis (3.5 SL)	3.5 LB/GAL	SC		1.31 oz ai/a	3 fl oz/a		LAPOCR B		V4-7 CORN	2.924 ml/mx					
	DiFlexx (506 SC)	506 GAE/L	SL		0.264 lb ae/a	8 fl oz/a		LAPOCR B		V4-7 CORN	7.825 ml/mx					
	MSO	100 %	L		1 % v/v	1 % v/v		LAPOCR B		V4-7 CORN	25.0 ml/mx					
9	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		301	402	701	804
	Atrazine	4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
	Liberty 280 (2.34 SL)	2.34 LBA/GAL	SL		0.53 lb ai/a	29 fl oz/a		LAPOCR B		V4-7 CORN	28.31 ml/mx					
	DiFlexx (506 SC)	506 GAE/L	SL		0.264 lb ae/a	8 fl oz/a		LAPOCR B		V4-7 CORN	7.825 ml/mx					
	AMS - Liquid	3.4 LB/GAL	SL		17 lb ai/100 gal	20 qt/100 gal		LAPOCR B		V4-7 CORN	125.0 ml/mx					
	10	Corvus (2.63 SC)	2.63 LBA/GAL	SC		1.32 oz ai/a	4 fl oz/a		ATPLAN A			3.921 ml/mx		302	401	602
Atrazine		4 LBA/GAL	F		1.5 lb ai/a	1.5 qt/a		ATPLAN A			46.87 ml/mx					
Roundup PowerMax 4.5 SL		4.5 LBAE/GAL	SL		1.13 lb ae/a	32 fl oz/a		LAPOCR B		V4-7 CORN	31.39 ml/mx					
Status (56 SG)		56 %	SG		0.14 lb ai/a	4 oz/a		LAPOCR B		V4-7 CORN	3.745 g/mx					
COC		100 %	SL		1 % v/v	1 % v/v		LAPOCR B		V4-7 CORN	25.0 ml/mx					
AMS - Liquid		3.4 LB/GAL	SL		17 lb ai/100 gal	20 qt/100 gal		LAPOCR B		V4-7 CORN	125.0 ml/mx					

Sort Order: Treatment

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Diflexx, Corvus, Balance Flexx / Field Corn / Eff. Tol

Trial ID: 14S-THP-CTC-06 Protocol ID: 14S-THP-CTC-06
 Location: Throckmorton Study Director:
 Project ID: HP14USABLP Investigator: Dr. Bill Johnson
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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code		SETFA	AMBTR	AMBTR	SETFA	CHEAL		
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi	Chenopodium al>		
Pest Name		Giant foxtail	Giant ragweed	Giant ragweed	Giant foxtail	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-28-2014	May-28-2014	May-28-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V5	V5	V5		
Pest Stage Majority		1"	2"	6-30"	1-4"	2-5"		
Pest Density, Unit		8 FT2	4 YD2	2 FT2	7 FT2	2 YD2		
Assessed By	GT	GT	GT					
Days After First/Last Applic.	22 22	22 22	22 22	41 10	41 10	41 10		
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	41 DA-A	41 DA-A	41 DA-A		
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	42 DP-1	42 DP-1	42 DP-1		
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	35 DE-1	35 DE-1	35 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	1	2	3	4	5	6
1 Untreated Check		101	0.0	0.0	0.0	0.0	0.0	0.0
		504	0.0	0.0	0.0	0.0	0.0	0.0
		801	0.0	0.0	0.0	0.0	0.0	0.0
		803	0.0	0.0	0.0	0.0	0.0	0.0
		Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2 Corvus (2.63 SC)	1.84 oz ai/a	A 102	0.0	99.0	80.0	85.0	70.0	99.0
Atrazine	1.5 lb ai/a	A 303	0.0	99.0	85.0	70.0	99.0	99.0
		601	0.0	99.0	80.0	40.0	99.0	99.0
		902	0.0	95.0	80.0	30.0	90.0	99.0
		Mean =	0.0	98.0	81.3	56.3	89.5	99.0
3 Corvus (2.63 SC)	1.32 oz ai/a	A 103	0.0	99.0	70.0	75.0	99.0	99.0
Atrazine	1.51 lb ai/a	A 304	0.0	99.0	60.0	90.0	99.0	99.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 704	0.0	99.0	75.0	80.0	99.0	99.0
AMS - Liquid	17 lb ai/100 gal	B 1001	0.0	99.0	65.0	90.0	99.0	99.0
		Mean =	0.0	99.0	67.5	83.8	99.0	99.0
4 Corvus (2.63 SC)	1.32 oz ai/a	A 104	0.0	99.0	80.0	97.0	99.0	99.0
Atrazine	1.5 lb ai/a	A 404	0.0	99.0	70.0	97.0	99.0	99.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 702	0.0	80.0	90.0	98.0	99.0	99.0
Clarity (4 SL)	0.25 lb ae/a	B 901	0.0	90.0	40.0	98.0	99.0	99.0
NIS	0.25 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
		Mean =	0.0	92.0	70.0	97.5	99.0	99.0
5 Corvus (2.63 SC)	1.32 oz ai/a	A 201	0.0	99.0	85.0	98.0	99.0	99.0
Atrazine	1.5 lb ai/a	A 503	0.0	99.0	70.0	98.0	99.0	99.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 604	0.0	99.0	90.0	98.0	99.0	99.0
Clarity (4 SL)	0.5 lb ae/a	B 1003	0.0	99.0	75.0	98.0	99.0	99.0
NIS	0.25 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
		Mean =	0.0	99.0	80.0	98.0	99.0	99.0

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Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code		SETFA	AMBTR	AMBTR	SETFA	CHEAL
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi	Chenopodium al>
Pest Name		Giant foxtail	Giant ragweed	Giant ragweed	Giant foxtail	Common lambsqu>
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	May-28-2014	May-28-2014	May-28-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V2	V2	V2	V5	V5	V5
Pest Stage Majority		1"	2"	6-30"	1-4"	2-5"
Pest Density, Unit		8 FT2	4 YD2	2 FT2	7 FT2	2 YD2
Assessed By	GT	GT	GT			
Days After First/Last Applic.	22 22	22 22	22 22	41 10	41 10	41 10
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	41 DA-A	41 DA-A	41 DA-A
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	42 DP-1	42 DP-1	42 DP-1
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	35 DE-1	35 DE-1	35 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	1	2	3	4
6 Corvus (2.63 SC)	1.32 oz ai/a	A 202	0.0	99.0	85.0	90.0
Atrazine	1.5 lb ai/a	A 403	0.0	99.0	85.0	97.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 703	0.0	99.0	60.0	95.0
DiFlexx (506 SC)	0.264 lb ae/a	B 1004	0.0	99.0	65.0	95.0
COC	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			0.0	99.0	73.8	94.3
7 Corvus (2.63 SC)	1.32 oz ai/a	A 203	0.0	99.0	80.0	97.0
Atrazine	1.5 lb ai/a	A 501	0.0	99.0	50.0	98.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 802	0.0	90.0	80.0	97.0
Diflexx (4.22 SL)	0.53 lb ai/a	B 1002	0.0	99.0	65.0	95.0
COC	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			0.0	96.8	68.8	96.8
8 Corvus (2.63 SC)	1.32 oz ai/a	A 204	0.0	99.0	90.0	99.0
Atrazine	1.5 lb ai/a	A 502	0.0	99.0	60.0	97.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 603	0.0	99.0	85.0	95.0
Laudis (3.5 SL)	1.31 oz ai/a	B 903	0.0	99.0	60.0	95.0
DiFlexx (506 SC)	0.264 lb ae/a	B				
MSO	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			0.0	99.0	73.8	96.5
9 Corvus (2.63 SC)	1.32 oz ai/a	A 301	0.0	99.0	60.0	95.0
Atrazine	1.5 lb ai/a	A 402	0.0	99.0	65.0	93.0
Liberty 280 (2.34 SL)	0.53 lb ai/a	B 701	0.0	99.0	60.0	85.0
DiFlexx (506 SC)	0.264 lb ae/a	B 804	0.0	99.0	50.0	97.0
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			0.0	99.0	58.8	92.5
10 Corvus (2.63 SC)	1.32 oz ai/a	A 302	0.0	95.0	65.0	85.0
Atrazine	1.5 lb ai/a	A 401	0.0	99.0	95.0	90.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 602	0.0	80.0	85.0	95.0
Status (56 SG)	0.14 lb ai/a	B 904	0.0	99.0	70.0	85.0
COC	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			0.0	93.3	78.8	88.8

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Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	7	8	9	10	11	12
1	Untreated Check				101	0.0	0.0	0.0	0.0	0.0	0.0
					504	0.0	0.0	0.0	0.0	0.0	0.0
					801	0.0	0.0	0.0	0.0	0.0	0.0
					803	0.0	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	Corvus (2.63 SC)	1.84 oz ai/a		A	102	0.0	0.0	1.0	0.0	85.0	80.0
	Atrazine	1.5 lb ai/a		A	303	0.0	0.0	0.0	0.0	50.0	80.0
					601	0.0	0.0	0.0	0.0	80.0	75.0
					902	0.0	0.0	4.0	0.0	40.0	60.0
					Mean =	0.0	0.0	1.3	0.0	63.8	73.8
3	Corvus (2.63 SC)	1.32 oz ai/a		A	103	0.0	0.0	0.0	6.0	85.0	95.0
	Atrazine	1.51 lb ai/a		A	304	0.0	0.0	7.0	0.0	95.0	90.0
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	704	0.0	0.0	5.0	0.0	70.0	99.0
	AMS - Liquid	17 lb ai/100 gal		B	1001	0.0	3.0	5.0	0.0	80.0	80.0
					Mean =	0.0	0.8	4.3	1.5	82.5	91.0
4	Corvus (2.63 SC)	1.32 oz ai/a		A	104	0.0	9.0	0.0	5.0	98.0	98.0
	Atrazine	1.5 lb ai/a		A	404	0.0	0.0	7.0	5.0	99.0	98.0
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	702	0.0	6.0	0.0	0.0	95.0	75.0
	Clarity (4 SL)	0.25 lb ae/a		B	901	0.0	8.0	3.0	0.0	99.0	85.0
	NIS	0.25 % v/v		B							
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	0.0	5.8	2.5	2.5	97.8	89.0
5	Corvus (2.63 SC)	1.32 oz ai/a		A	201	0.0	10.0	3.0	0.0	98.0	98.0
	Atrazine	1.5 lb ai/a		A	503	5.0	0.0	10.0	9.0	99.0	99.0
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	604	7.0	0.0	10.0	10.0	99.0	99.0
	Clarity (4 SL)	0.5 lb ae/a		B	1003	0.0	0.0	3.0	0.0	99.0	90.0
	NIS	0.25 % v/v		B							
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	3.0	2.5	6.5	4.8	98.8	96.5

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Pest Type					W Weed	W Weed		
Pest Code					AMBTR	SETFA		
Pest Scientific Name					Ambrosia trifi>	Setaria faberi		
Pest Name					Giant ragweed	Giant foxtail		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jul-2-2014	Jul-2-2014		
Rating Type	PHYSTU	PHYNEC	PHYLMA	PHYCHL	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1		
Crop Stage Majority	V5	V5	V5	V5	V8	V8		
Pest Stage Majority					5-72"	5-25"		
Pest Density, Unit					2 FT2	3 FT2		
Assessed By								
Days After First/Last Applic.	41 10	41 10	41 10	41 10	57 26	57 26		
Trt-Eval Interval	41 DA-A	41 DA-A	41 DA-A	41 DA-A	57 DA-A	57 DA-A		
Plant-Eval Interval	42 DP-1	42 DP-1	42 DP-1	42 DP-1	58 DP-1	58 DP-1		
Days After Emergence	35 DE-1	35 DE-1	35 DE-1	35 DE-1	51 DE-1	51 DE-1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	7	8	9	10	11	12
6 Corvus (2.63 SC)	1.32 oz ai/a	A 202	0.0	6.0	0.0	0.0	99.0	95.0
Atrazine	1.5 lb ai/a	A 403	0.0	0.0	0.0	8.0	99.0	96.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 703	0.0	3.0	4.0	4.0	90.0	85.0
DiFlexx (506 SC)	0.264 lb ae/a	B 1004	0.0	0.0	3.0	0.0	90.0	70.0
COC	1 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			0.0	2.3	1.8	3.0	94.5	86.5
7 Corvus (2.63 SC)	1.32 oz ai/a	A 203	0.0	3.0	5.0	0.0	99.0	95.0
Atrazine	1.5 lb ai/a	A 501	0.0	0.0	0.0	0.0	99.0	90.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 802	0.0	0.0	6.0	0.0	99.0	85.0
Diflexx (4.22 SL)	0.53 lb ai/a	B 1002	0.0	0.0	0.0	0.0	99.0	60.0
COC	1 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			0.0	0.8	2.8	0.0	99.0	82.5
8 Corvus (2.63 SC)	1.32 oz ai/a	A 204	0.0	0.0	0.0	0.0	99.0	98.0
Atrazine	1.5 lb ai/a	A 502	0.0	4.0	0.0	0.0	99.0	85.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 603	0.0	0.0	0.0	5.0	98.0	75.0
Laudis (3.5 SL)	1.31 oz ai/a	B 903	0.0	0.0	3.0	0.0	99.0	98.0
DiFlexx (506 SC)	0.264 lb ae/a	B						
MSO	1 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			0.0	1.0	0.8	1.3	98.8	89.0
9 Corvus (2.63 SC)	1.32 oz ai/a	A 301	0.0	4.0	0.0	0.0	90.0	65.0
Atrazine	1.5 lb ai/a	A 402	0.0	0.0	0.0	0.0	85.0	60.0
Liberty 280 (2.34 SL)	0.53 lb ai/a	B 701	0.0	0.0	0.0	0.0	80.0	95.0
DiFlexx (506 SC)	0.264 lb ae/a	B 804	0.0	0.0	7.0	0.0	99.0	85.0
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			0.0	1.0	1.8	0.0	88.5	76.3
10 Corvus (2.63 SC)	1.32 oz ai/a	A 302	0.0	5.0	0.0	0.0	95.0	99.0
Atrazine	1.5 lb ai/a	A 401	0.0	5.0	6.0	0.0	90.0	99.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 602	0.0	0.0	7.0	0.0	99.0	70.0
Status (56 SG)	0.14 lb ai/a	B 904	0.0	0.0	0.0	4.0	75.0	99.0
COC	1 % v/v	B						
AMS - Liquid	17 lb ai/100 gal	B						
Mean =			0.0	2.5	3.3	1.0	89.8	91.8

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Trt No.	Treatment	Rate	Unit	Appl Code	Plot	13	14	15	16	17	18
1	Untreated Check				101	0.0	0.0	0.0	0.0	0.0	0.0
					504	0.0	0.0	0.0	0.0	0.0	0.0
					801	0.0	0.0	0.0	0.0	0.0	0.0
					803	0.0	0.0	0.0	0.0	0.0	0.0
					Mean =	0.0	0.0	0.0	0.0	0.0	0.0
2	Corvus (2.63 SC)	1.84 oz ai/a		A	102	99.0	0.0	93.0	87.0	99.0	0.0
	Atrazine	1.5 lb ai/a		A	303	99.0	0.0	97.0	90.0	99.0	0.0
					601	99.0	5.0	85.0	70.0	99.0	0.0
					902	99.0	0.0	87.0	60.0	99.0	0.0
					Mean =	99.0	1.3	90.5	76.8	99.0	0.0
3	Corvus (2.63 SC)	1.32 oz ai/a		A	103	99.0	0.0	95.0	90.0	99.0	0.0
	Atrazine	1.51 lb ai/a		A	304	99.0	0.0	97.0	93.0	99.0	0.0
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	704	99.0	0.0	95.0	92.0	99.0	0.0
	AMS - Liquid	17 lb ai/100 gal		B	1001	99.0	4.0	96.0	92.0	99.0	0.0
					Mean =	99.0	1.0	95.8	91.8	99.0	0.0
4	Corvus (2.63 SC)	1.32 oz ai/a		A	104	99.0	0.0	97.0	99.0	99.0	0.0
	Atrazine	1.5 lb ai/a		A	404	99.0	0.0	98.0	97.0	99.0	7.0
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	702	99.0	0.0	93.0	95.0	99.0	0.0
	Clarity (4 SL)	0.25 lb ae/a		B	901	99.0	6.0	90.0	94.0	99.0	0.0
	NIS	0.25 % v/v		B							
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	99.0	1.5	94.5	96.3	99.0	1.8
5	Corvus (2.63 SC)	1.32 oz ai/a		A	201	99.0	3.0	97.0	99.0	99.0	3.0
	Atrazine	1.5 lb ai/a		A	503	99.0	0.0	95.0	95.0	99.0	25.0
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	604	99.0	8.0	99.0	99.0	99.0	20.0
	Clarity (4 SL)	0.5 lb ae/a		B	1003	99.0	5.0	95.0	99.0	99.0	5.0
	NIS	0.25 % v/v		B							
	AMS - Liquid	17 lb ai/100 gal		B							
					Mean =	99.0	4.0	96.5	98.0	99.0	13.3

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	W Weed		W Weed	W Weed	W Weed	
Pest Type	CHEAL		SETFA	AMBTR	CHEAL	
Pest Code	CHEAL		SETFA	AMBTR	CHEAL	
Pest Scientific Name	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>	
Pest Name	Common lambsqu>		Giant foxtail	Giant ragweed	Common lambsqu>	
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn
Rating Date	Jul-2-2014	Jul-2-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014
Rating Type	CONTRO	PHYSTU	CONTRO	CONTRO	CONTRO	GOOSEN
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V8	V8				
Pest Stage Majority	2-6"		40	9'	36	
Pest Density, Unit	1 YD2		15 FT2	10 YD2	2 YD2	
Assessed By						
Days After First/Last Applic.	57 26	57 26	71 40	71 40	71 40	71 40
Trt-Eval Interval	57 DA-A	57 DA-A	71 DA-A	71 DA-A	71 DA-A	71 DA-A
Plant-Eval Interval	58 DP-1	58 DP-1	72 DP-1	72 DP-1	72 DP-1	72 DP-1
Days After Emergence	51 DE-1	51 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
6 Corvus (2.63 SC)	1.32 oz ai/a	A 202	99.0	0.0	98.0	98.0
Atrazine	1.5 lb ai/a	A 403	99.0	0.0	95.0	96.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 703	99.0	0.0	95.0	94.0
DiFlexx (506 SC)	0.264 lb ae/a	B 1004	99.0	5.0	95.0	97.0
COC	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	1.3	95.8	96.3
7 Corvus (2.63 SC)	1.32 oz ai/a	A 203	99.0	0.0	98.0	99.0
Atrazine	1.5 lb ai/a	A 501	99.0	6.0	98.0	99.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 802	99.0	2.0	96.0	97.0
DiFlexx (4.22 SL)	0.53 lb ai/a	B 1002	99.0	7.0	87.0	99.0
COC	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	3.8	94.8	98.5
8 Corvus (2.63 SC)	1.32 oz ai/a	A 204	99.0	0.0	98.0	99.0
Atrazine	1.5 lb ai/a	A 502	99.0	0.0	95.0	98.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 603	99.0	0.0	97.0	98.0
Laudis (3.5 SL)	1.31 oz ai/a	B 903	99.0	4.0	98.0	99.0
DiFlexx (506 SC)	0.264 lb ae/a	B				
MSO	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	1.0	97.0	98.5
9 Corvus (2.63 SC)	1.32 oz ai/a	A 301	99.0	4.0	95.0	95.0
Atrazine	1.5 lb ai/a	A 402	99.0	0.0	87.0	98.0
Liberty 280 (2.34 SL)	0.53 lb ai/a	B 701	99.0	0.0	95.0	93.0
DiFlexx (506 SC)	0.264 lb ae/a	B 804	99.0	3.0	96.0	93.0
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	1.8	93.3	94.8
10 Corvus (2.63 SC)	1.32 oz ai/a	A 302	99.0	0.0	97.0	95.0
Atrazine	1.5 lb ai/a	A 401	99.0	4.0	97.0	94.0
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B 602	99.0	0.0	95.0	97.0
Status (56 SG)	0.14 lb ai/a	B 904	99.0	5.0	98.0	95.0
COC	1 % v/v	B				
AMS - Liquid	17 lb ai/100 gal	B				
Mean =			99.0	2.3	96.8	95.3

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Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Code					ZEAMX
BBCB Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date					Jul-16-2014
Rating Type					PHYLMA
Rating Unit					%
Sample Size, Unit					1 PLOT
Number of Subsamples					1
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Days After First/Last Applic.					71 40
Trt-Eval Interval					71 DA-A
Plant-Eval Interval					72 DP-1
Days After Emergence					65 DE-1
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot
					19
1	Untreated Check				101
					504
					801
					803
					Mean =
					0.0
2	Corvus (2.63 SC)	1.84 oz ai/a		A	102
	Atrazine	1.5 lb ai/a		A	303
					601
					902
					Mean =
					0.0
3	Corvus (2.63 SC)	1.32 oz ai/a		A	103
	Atrazine	1.51 lb ai/a		A	304
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	704
	AMS - Liquid	17 lb ai/100 gal		B	1001
					Mean =
					0.8
4	Corvus (2.63 SC)	1.32 oz ai/a		A	104
	Atrazine	1.5 lb ai/a		A	404
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	702
	Clarity (4 SL)	0.25 lb ae/a		B	901
	NIS	0.25 % v/v		B	
	AMS - Liquid	17 lb ai/100 gal		B	
					Mean =
					1.3
5	Corvus (2.63 SC)	1.32 oz ai/a		A	201
	Atrazine	1.5 lb ai/a		A	503
	Roundup PowerMax 4.5 SL	1.13 lb ae/a		B	604
	Clarity (4 SL)	0.5 lb ae/a		B	1003
	NIS	0.25 % v/v		B	
	AMS - Liquid	17 lb ai/100 gal		B	
					Mean =
					6.3

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Pest Type					
Pest Code					
Pest Scientific Name					
Pest Name					
Crop Code					ZEAMX
BBCH Scale					BCOR
Crop Scientific Name					Zea mays
Crop Name					Corn
Rating Date					Jul-16-2014
Rating Type					PHYLMA
Rating Unit					%
Sample Size, Unit					1 PLOT
Number of Subsamples					1
Crop Stage Majority					
Pest Stage Majority					
Pest Density, Unit					
Assessed By					
Days After First/Last Applic.					71 40
Trt-Eval Interval					71 DA-A
Plant-Eval Interval					72 DP-1
Days After Emergence					65 DE-1
Trt Treatment		Rate	Appl		
No. Name		Rate Unit	Code Plot		19
6 Corvus (2.63 SC)		1.32 oz ai/a	A 202		0.0
Atrazine		1.5 lb ai/a	A 403		2.0
Roundup PowerMax 4.5 SL		1.13 lb ae/a	B 703		0.0
DiFlexx (506 SC)		0.264 lb ae/a	B 1004		0.0
COC		1 % v/v	B		
AMS - Liquid		17 lb ai/100 gal	B		
			Mean =		0.5
7 Corvus (2.63 SC)		1.32 oz ai/a	A 203		0.0
Atrazine		1.5 lb ai/a	A 501		0.0
Roundup PowerMax 4.5 SL		1.13 lb ae/a	B 802		5.0
Diflexx (4.22 SL)		0.53 lb ai/a	B 1002		0.0
COC		1 % v/v	B		
AMS - Liquid		17 lb ai/100 gal	B		
			Mean =		1.3
8 Corvus (2.63 SC)		1.32 oz ai/a	A 204		0.0
Atrazine		1.5 lb ai/a	A 502		3.0
Roundup PowerMax 4.5 SL		1.13 lb ae/a	B 603		6.0
Laudis (3.5 SL)		1.31 oz ai/a	B 903		3.0
DiFlexx (506 SC)		0.264 lb ae/a	B		
MSO		1 % v/v	B		
AMS - Liquid		17 lb ai/100 gal	B		
			Mean =		3.0
9 Corvus (2.63 SC)		1.32 oz ai/a	A 301		0.0
Atrazine		1.5 lb ai/a	A 402		4.0
Liberty 280 (2.34 SL)		0.53 lb ai/a	B 701		0.0
DiFlexx (506 SC)		0.264 lb ae/a	B 804		5.0
AMS - Liquid		17 lb ai/100 gal	B		
			Mean =		2.3
10 Corvus (2.63 SC)		1.32 oz ai/a	A 302		3.0
Atrazine		1.5 lb ai/a	A 401		3.0
Roundup PowerMax 4.5 SL		1.13 lb ae/a	B 602		7.0
Status (56 SG)		0.14 lb ai/a	B 904		0.0
COC		1 % v/v	B		
AMS - Liquid		17 lb ai/100 gal	B		
			Mean =		3.3

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Diflexx, Corvus, Balance Flexx / Field Corn / Eff. Tol

Trial ID: 14S-THP-CTC-06 Protocol ID: 14S-THP-CTC-06
 Location: Throckmorton Study Director:
 Project ID: HP14USABLP Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Alan Kurtz

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 CHEAL, Chenopodium album, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYGEN = phytotoxicity - general / injury
 CONTRO = control / burndown or knockdown
 PHYSTU = phytotoxicity - stunting
 PHYNEC = phytotoxicity - necrosis /burn
 PHYLMA = phytotoxicity - leaf malformation
 PHYCHL = phytotoxicity - chlorosis
 GOOSEN = goosenecking

Rating Unit

% = percent

PLOT = total plot

Pest Stage Majority

40 = V Vegetative reproductive organs begin to develop (rhizomes, stolons, tubers, runners, bulbs)
 36 = 6 visibly extended internode; G 6 node stage

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

23 DP-1 = 1 ZEAMD May-5-2014
 42 DP-1 = 1 ZEAMD May-5-2014
 58 DP-1 = 1 ZEAMD May-5-2014
 72 DP-1 = 1 ZEAMD May-5-2014

Purdue University

Diflexx, Corvus, Balance Flexx / Field Corn / Eff. Tol

Trial ID: 14S-THP-CTC-06 Protocol ID: 14S-THP-CTC-06
 Location: Throckmorton Study Director:
 Project ID: HP14USABLP Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Alan Kurtz

Pest Type		W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code		SETFA	AMBTR	AMBTR	SETFA	CHEAL			
Pest Scientific Name		Setaria faberi	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi	Chenopodium a >			
Pest Name		Giant foxtail	Giant ragweed	Giant ragweed	Giant foxtail	Common lambsqu>			
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-28-2014	May-28-2014	May-28-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V5	V5	V5	V5		
Pest Stage Majority		1"	2"	6-30"	1-4"	2-5"			
Pest Density, Unit		8 FT2	4 YD2	2 FT2	7 FT2	2 YD2			
Assessed By	GT	GT	GT						
Days After First/Last Applic.	22 22	22 22	22 22	41 10	41 10	41 10	41 10		
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A		
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1		
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
1 Untreated Check			0.0 a	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b	0.0 b
2 Corvus (2.63 SC) Atrazine	1.84 oz ai/a 1.5 lb ai/a	A A	0.0 a	98.0 a	81.3 a	56.3 b	89.5 a	99.0 a	0.0 b
3 Corvus (2.63 SC) Atrazine Roundup PowerMax 4.5 SL AMS - Liquid	1.32 oz ai/a 1.51 lb ai/a 1.13 lb ae/a 17 lb ai/100 gal	A A B B	0.0 a	99.0 a	67.5 a	83.8 a	99.0 a	99.0 a	0.0 b
4 Corvus (2.63 SC) Atrazine Roundup PowerMax 4.5 SL Clarity (4 SL) NIS AMS - Liquid	1.32 oz ai/a 1.5 lb ai/a 1.13 lb ae/a 0.25 lb ae/a 0.25 % v/v 17 lb ai/100 gal	A A B B B B	0.0 a	92.0 a	70.0 a	97.5 a	99.0 a	99.0 a	0.0 b
5 Corvus (2.63 SC) Atrazine Roundup PowerMax 4.5 SL Clarity (4 SL) NIS AMS - Liquid	1.32 oz ai/a 1.5 lb ai/a 1.13 lb ae/a 0.5 lb ae/a 0.25 % v/v 17 lb ai/100 gal	A A B B B B	0.0 a	99.0 a	80.0 a	98.0 a	99.0 a	99.0 a	3.0 a
6 Corvus (2.63 SC) Atrazine Roundup PowerMax 4.5 SL DiFlexx (506 SC) COC AMS - Liquid	1.32 oz ai/a 1.5 lb ai/a 1.13 lb ae/a 0.264 lb ae/a 1 % v/v 17 lb ai/100 gal	A A B B B B	0.0 a	99.0 a	73.8 a	94.3 a	99.0 a	99.0 a	0.0 b

Means followed by same letter do not significantly differ (P=0.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	AMBTR	SETFA	CHEAL				
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Ambrosia trifi>	Setaria faberi	Chenopodium al>				
Pest Name	Giant foxtail	Giant ragweed	Giant ragweed	Giant foxtail	Common lambsqu>				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn		
Rating Date	May-28-2014	May-28-2014	May-28-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014	Jun-16-2014		
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	PHYSTU		
Rating Unit	%	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Number of Subsamples	1	1	1	1	1	1	1		
Crop Stage Majority	V2	V2	V2	V5	V5	V5	V5		
Pest Stage Majority		1"	2"	6-30"	1-4"	2-5"			
Pest Density, Unit		8 FT2	4 YD2	2 FT2	7 FT2	2 YD2			
Assessed By	GT	GT	GT						
Days After First/Last Applic.	22 22	22 22	22 22	41 10	41 10	41 10	41 10		
Trt-Eval Interval	22 DA-A	22 DA-A	22 DA-A	41 DA-A	41 DA-A	41 DA-A	41 DA-A		
Plant-Eval Interval	23 DP-1	23 DP-1	23 DP-1	42 DP-1	42 DP-1	42 DP-1	42 DP-1		
Days After Emergence	16 DE-1	16 DE-1	16 DE-1	35 DE-1	35 DE-1	35 DE-1	35 DE-1		
Trt Treatment	Rate	Appl							
No. Name	Rate Unit	Code	1	2	3	4	5	6	7
7 Corvus (2.63 SC)	1.32 oz ai/a	A	0.0 a	96.8 a	68.8 a	96.8 a	99.0 a	99.0 a	0.0 b
Atrazine	1.5 lb ai/a	A							
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B							
Diflexx (4.22 SL)	0.53 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
8 Corvus (2.63 SC)	1.32 oz ai/a	A	0.0 a	99.0 a	73.8 a	96.5 a	99.0 a	99.0 a	0.0 b
Atrazine	1.5 lb ai/a	A							
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B							
Laudis (3.5 SL)	1.31 oz ai/a	B							
DiFlexx (506 SC)	0.264 lb ae/a	B							
MSO	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
9 Corvus (2.63 SC)	1.32 oz ai/a	A	0.0 a	99.0 a	58.8 a	92.5 a	99.0 a	99.0 a	0.0 b
Atrazine	1.5 lb ai/a	A							
Liberty 280 (2.34 SL)	0.53 lb ai/a	B							
DiFlexx (506 SC)	0.264 lb ae/a	B							
AMS - Liquid	17 lb ai/100 gal	B							
10 Corvus (2.63 SC)	1.32 oz ai/a	A	0.0 a	93.3 a	78.8 a	88.8 a	99.0 a	99.0 a	0.0 b
Atrazine	1.5 lb ai/a	A							
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B							
Status (56 SG)	0.14 lb ai/a	B							
COC	1 % v/v	B							
AMS - Liquid	17 lb ai/100 gal	B							
LSD (P=.05)			0.00	5.77	15.88	12.94	6.27	0.00	1.63
Standard Deviation			0.00	3.97	10.95	8.92	4.32	0.00	1.13
CV			0.0	4.54	16.78	11.09	4.91	0.0	375.15
Bartlett's X2			0.0	6.319	12.926	46.338	0.0	0.0	0.0
P(Bartlett's X2)			.	0.097	0.114	0.001*	.	.	.
Replicate F			0.000	2.891	3.206	0.774	1.000	0.000	1.000
Replicate Prob(F)			1.0000	0.0537	0.0389	0.5188	0.4079	1.0000	0.4079
Treatment F			0.000	241.031	19.066	48.017	207.107	0.000	2.842
Treatment Prob(F)			1.0000	0.0001	0.0001	0.0001	0.0001	1.0000	0.0171

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Pest Type	ZEAMX		ZEAMX		ZEAMX		W Weed AMBTR	W Weed SETFA	W Weed CHEAL				
Pest Code	BCOR		BCOR		BCOR		Ambrosia trifi>	Setaria faberi	Chenopodium ai>				
Pest Scientific Name							Giant ragweed	Giant foxtail	Common lambsqu>				
Pest Name													
Crop Code	ZEAMX		ZEAMX		ZEAMX		ZEAMX	ZEAMX	ZEAMX	ZEAMX			
BBCB Scale	BCOR		BCOR		BCOR		BCOR	BCOR	BCOR	BCOR			
Crop Scientific Name	Zea mays		Zea mays		Zea mays		Zea mays	Zea mays	Zea mays	Zea mays			
Crop Name	Corn		Corn		Corn		Corn	Corn	Corn	Corn			
Rating Date	Jun-16-2014		Jun-16-2014		Jun-16-2014		Jul-2-2014	Jul-2-2014	Jul-2-2014	Jul-2-2014			
Rating Type	PHYNEC		PHYLMA		PHYCHL		CONTRO	CONTRO	CONTRO	PHYSTU			
Rating Unit	%		%		%		%	%	%	%			
Sample Size, Unit	1	PLOT	1	PLOT	1	PLOT	1	PLOT	1	PLOT	1	PLOT	
Number of Subsamples	1		1		1		1	1	1	1			
Crop Stage Majority	V5		V5		V5		V8	V8	V8	V8			
Pest Stage Majority							5-72"	5-25"	2-6"				
Pest Density, Unit							2 FT2	3 FT2	1 YD2				
Assessed By													
Days After First/Last Applic.	41	10	41	10	41	10	57	26	57	26	57	26	
Trt-Eval Interval	41 DA-A		41 DA-A		41 DA-A		57 DA-A	57 DA-A	57 DA-A	57 DA-A			
Plant-Eval Interval	42 DP-1		42 DP-1		42 DP-1		58 DP-1	58 DP-1	58 DP-1	58 DP-1			
Days After Emergence	35 DE-1		35 DE-1		35 DE-1		51 DE-1	51 DE-1	51 DE-1	51 DE-1			
Trt No.	Treatment		Rate		Appl								
Name	Rate	Unit	Code										
1	Untreated Check		8	9	10	11	12	13	14				
	0.0 a		0.0 a	0.0 a	0.0 a	0.0 c	0.0 b	0.0 b	0.0 a				
2	Corvus (2.63 SC)		0.0 a	1.3 a	0.0 a	63.8 b	73.8 a	99.0 a	1.3 a				
	Atrazine	1.84 oz ai/a	A										
		1.5 lb ai/a	A										
3	Corvus (2.63 SC)		0.8 a	4.3 a	1.5 a	82.5 a	91.0 a	99.0 a	1.0 a				
	Atrazine	1.32 oz ai/a	A										
	Roundup PowerMax 4.5 SL	1.51 lb ai/a	A										
	AMS - Liquid	1.13 lb ae/a	B										
		17 lb ai/100 gal	B										
4	Corvus (2.63 SC)		5.8 a	2.5 a	2.5 a	97.8 a	89.0 a	99.0 a	1.5 a				
	Atrazine	1.32 oz ai/a	A										
	Roundup PowerMax 4.5 SL	1.5 lb ai/a	A										
	Clarity (4 SL)	1.13 lb ae/a	B										
	NIS	0.25 lb ae/a	B										
	AMS - Liquid	0.25 % v/v	B										
		17 lb ai/100 gal	B										
5	Corvus (2.63 SC)		2.5 a	6.5 a	4.8 a	98.8 a	96.5 a	99.0 a	4.0 a				
	Atrazine	1.32 oz ai/a	A										
	Roundup PowerMax 4.5 SL	1.5 lb ai/a	A										
	Clarity (4 SL)	1.13 lb ae/a	B										
	NIS	0.5 lb ae/a	B										
	AMS - Liquid	0.25 % v/v	B										
		17 lb ai/100 gal	B										
6	Corvus (2.63 SC)		2.3 a	1.8 a	3.0 a	94.5 a	86.5 a	99.0 a	1.3 a				
	Atrazine	1.32 oz ai/a	A										
	Roundup PowerMax 4.5 SL	1.5 lb ai/a	A										
	DiFlexx (506 SC)	1.13 lb ae/a	B										
	COC	0.264 lb ae/a	B										
	AMS - Liquid	1 % v/v	B										
		17 lb ai/100 gal	B										

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Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	CHEAL		
Pest Scientific Name	Setaria faberi	Ambrosia trifi>	Chenopodium al>		
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCB Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Rating Date	Jul-16-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	GOOSEN	PHYLMA
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Stage Majority					
Pest Stage Majority	40	9'	36		
Pest Density, Unit	15 FT2	10 YD2	2 YD2		
Assessed By					
Days After First/Last Applic.	71 40	71 40	71 40	71 40	71 40
Trt-Eval Interval	71 DA-A	71 DA-A	71 DA-A	71 DA-A	71 DA-A
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1	72 DP-1
Days After Emergence	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	17
1 Untreated Check			0.0 b	0.0 c	0.0 b
2 Corvus (2.63 SC)	1.84 oz ai/a	A	90.5 a	76.8 b	99.0 a
Atrazine	1.5 lb ai/a	A			0.0 b
3 Corvus (2.63 SC)	1.32 oz ai/a	A	95.8 a	91.8 a	99.0 a
Atrazine	1.5 lb ai/a	A			0.0 b
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B			0.8 b
AMS - Liquid	17 lb ai/100 gal	B			
4 Corvus (2.63 SC)	1.32 oz ai/a	A	94.5 a	96.3 a	99.0 a
Atrazine	1.5 lb ai/a	A			1.8 b
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B			1.3 b
Clarity (4 SL)	0.25 lb ae/a	B			
NIS	0.25 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			
5 Corvus (2.63 SC)	1.32 oz ai/a	A	96.5 a	98.0 a	99.0 a
Atrazine	1.5 lb ai/a	A			13.3 a
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B			6.3 a
Clarity (4 SL)	0.5 lb ae/a	B			
NIS	0.25 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			
6 Corvus (2.63 SC)	1.32 oz ai/a	A	95.8 a	96.3 a	99.0 a
Atrazine	1.5 lb ai/a	A			0.0 b
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B			0.5 b
DiFlexx (506 SC)	0.264 lb ae/a	B			
COC	1 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			

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Pest Type	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBTR	CHEAL		
Pest Scientific Name	Setaria faberi	Ambrosia trif>	Chenopodium al>		
Pest Name	Giant foxtail	Giant ragweed	Common lambsqu>		
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn	Corn	Corn
Rating Date	Jul-16-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014	Jul-16-2014
Rating Type	CONTRO	CONTRO	CONTRO	GOOSEN	PHYLMA
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Number of Subsamples	1	1	1	1	1
Crop Stage Majority					
Pest Stage Majority	40	9'	36		
Pest Density, Unit	15 FT2	10 YD2	2 YD2		
Assessed By					
Days After First/Last Applic.	71 40	71 40	71 40	71 40	71 40
Trt-Eval Interval	71 DA-A	71 DA-A	71 DA-A	71 DA-A	71 DA-A
Plant-Eval Interval	72 DP-1	72 DP-1	72 DP-1	72 DP-1	72 DP-1
Days After Emergence	65 DE-1	65 DE-1	65 DE-1	65 DE-1	65 DE-1
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code	15	16	17
7 Corvus (2.63 SC)	1.32 oz ai/a	A	94.8 a	98.5 a	99.0 a
Atrazine	1.5 lb ai/a	A			0.0 b
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B			
DiFlexx (4.22 SL)	0.53 lb ai/a	B			
COC	1 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			1.3 b
8 Corvus (2.63 SC)	1.32 oz ai/a	A	97.0 a	98.5 a	99.0 a
Atrazine	1.5 lb ai/a	A			1.0 b
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B			
Laudis (3.5 SL)	1.31 oz ai/a	B			
DiFlexx (506 SC)	0.264 lb ae/a	B			
MSO	1 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			3.0 ab
9 Corvus (2.63 SC)	1.32 oz ai/a	A	93.3 a	94.8 a	99.0 a
Atrazine	1.5 lb ai/a	A			0.0 b
Liberty 280 (2.34 SL)	0.53 lb ai/a	B			
DiFlexx (506 SC)	0.264 lb ae/a	B			
AMS - Liquid	17 lb ai/100 gal	B			2.3 ab
10 Corvus (2.63 SC)	1.32 oz ai/a	A	96.8 a	95.3 a	99.0 a
Atrazine	1.5 lb ai/a	A			0.0 b
Roundup PowerMax 4.5 SL	1.13 lb ae/a	B			
Status (56 SG)	0.14 lb ai/a	B			
COC	1 % v/v	B			
AMS - Liquid	17 lb ai/100 gal	B			3.3 ab
LSD (P=.05)			4.51	6.76	0.00
Standard Deviation			3.11	4.66	0.00
CV			3.64	5.51	0.0
Bartlett's X2			17.056	49.248	0.0
P(Bartlett's X2)			0.03*	0.001*	0.004*
Replicate F			1.307	1.330	0.000
Replicate Prob(F)			0.2926	0.2852	1.0000
Treatment F			374.975	170.482	0.000
Treatment Prob(F)			0.0001	0.0001	1.0000
					5.17
					3.57
					222.86
					11.049
					0.004*
					1.421
					0.2583
					5.384
					0.0003
					3.465
					0.0300
					3.093
					0.0110

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Diflexx, Corvus, Balance Flexx / Field Corn / Eff. Tol

Trial ID: 14S-THP-CTC-06 Protocol ID: 14S-THP-CTC-06
 Location: Throckmorton Study Director:
 Project ID: HP14USABLP Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Alan Kurtz

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US
 AMBTR, Ambrosia trifida, = US
 CHEAL, Chenopodium album, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYGEN = phytotoxicity - general / injury
 CONTRO = control / burndown or knockdown
 PHYSTU = phytotoxicity - stunting
 PHYNEC = phytotoxicity - necrosis /burn
 PHYLMA = phytotoxicity - leaf malformation
 PHYCHL = phytotoxicity - chlorosis
 GOOSEN = goosenecking

Rating Unit

% = percent

PLOT = total plot

Pest Stage Majority

40 = V Vegetative reproductive organs begin to develop (rhizomes, stolons, tubers, runners, bulbs)
 36 = 6 visibly extended internode; G 6 node stage

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

23 DP-1 = 1 ZEAMD May-5-2014
 42 DP-1 = 1 ZEAMD May-5-2014
 58 DP-1 = 1 ZEAMD May-5-2014
 72 DP-1 = 1 ZEAMD May-5-2014