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Corvus, Balance Fless, Capreno

Trial ID: 11S-THP-NTC-61 Protocol ID: 11S-THP-NTC-02
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

General Trial Information

Study Director: White/Marquardt **Title:** Research Associate
Investigator: Dr. Bill Johnson **Title:** Professor

Discipline: H herbicide
Trial Status: Established
Initiation Date: 4-8-2011

Trial Location

City: Lafayette USA 49.376656 - 24.53833
State/Prov.: IN -124.715843 - -66.968887
Postal Code: 47909
Country: USA

Personnel

Study Director: White/Marquardt **Title:** Research Associate

Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** mdwhite@purdue.edu
Phone No.: 765-494-0891
Investigator: Dr. Bill Johnson **Title:** Professor

Affiliation: Purdue University
Address: 915 W State Street
Location: West Lafayette, IN, USA
Postal Code: 47907 **E-mail:** wgi@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 **Phone No.:** 765-538-3422
State/Prov: IN **Fax No.:** 765-538-3423
Postal Code: 47909 **E-mail:** jayyoung@purdue.edu
Country: USA United States

Crop Description

Crop 1: ZEAMD Zea mays indentata Dent corn
Variety: Pioneer 33W84 **Description:** HXX, LL, RR2
BBCH Scale: BCOR **Planting Date:** 5-11-2011
Planting Method: PLANTD planted **Rate, Unit:** 34000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN

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Pest Description

Pest 1 Type: W **Code:** LAMAM *Lamium amplexicaule*
Common Name: Henbit

Pest 2 Type: W **Code:** THLSS *Thlaspi* sp.
Common Name: Pennycress

Pest 3 Type: W **Code:** STEME *Stellaria media*
Common Name: Common chickweed

Pest 4 Type: W **Code:** TAROF *Taraxacum officinale*
Common Name: Common dandelion

Pest 5 Type: W **Code:** SETFA *Setaria faberi*
Common Name: Giant foxtail

Pest 6 Type: W **Code:** LACSE *Lactuca serriola*
Common Name: Prickly lettuce

Pest 7 Type: W **Code:** ERICA *Conyza canadensis*
Common Name: Canada horseweed

Pest 8 Type: W **Code:** BROTE *Bromus tectorum*
Common Name: Downy brome

Pest 9 Type: W **Code:** OXASS *Oxalis* sp.
Common Name: Wood sorrel

Pest10 Type: W **Code:** CHEAL *Chenopodium album*
Common Name: Common lambsquarters

Site and Design

Plot Width, Unit: 10 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 300 FT²
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till

Study Design: RACOB1 Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: TPAC - Field 5
% OM: 2.3 **Texture:** SIL silt loam
pH: 6.6 **Soil Name:** Longlois
CEC: 9.9

Application Description

	A	B	C
Application Date:	4-13-2011	5-11-2011	6-28-2011
Time of Day:	8:15-8:45	2-2:10 PM	9:45 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPLA	ATPLAN	MIPOWE
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	MH	MW	BM
Air Temperature, Unit:	45 F	92 F	75 F
% Relative Humidity:	62.5	70.8	63
Wind Velocity, Unit:	1.5 MPH	3.8 MPH	2.3 MPH
Wind Direction:		E	
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	44 F	79 F	73 F
Soil Moisture:	DRY	DRY	DRY
% Cloud Cover:	70	35	10

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Crop Stage At Each Application

	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:			BBCH
Stage Majority, Percent:			V6
Stage Minimum, Percent:			V6
Stage Maximum, Percent:			V7
Height, Unit:			3 FT

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Pest Stage At Each Application

	A	B	C
Pest 1 Code, Type, Scale:	LAMAM W	LAMAM W	LAMAM W
Height, Unit:	1.5 IN		
Height Minimum, Maximum:	1 2		
Density, Unit:	8 YD2		
Pest 2 Code, Type, Scale:	THLSS W	THLSS W	THLSS W
Height, Unit:	2.5 IN		
Height Minimum, Maximum:	1 4		
Density, Unit:	28 YD2		
Pest 3 Code, Type, Scale:	STEME W	STEME W	STEME W
Height, Unit:	0.75 IN		
Height Minimum, Maximum:	0.5 1		
Density, Unit:	10 YD2		
Pest 4 Code, Type, Scale:	TAROF W	TAROF W	TAROF W
Height, Unit:	1.5 IN		
Height Minimum, Maximum:	1 2		
Density, Unit:	5 YD2		
Pest 5 Code, Type, Scale:	SETFA W	SETFA W	SETFA W
Height, Unit:			5.5 IN
Height Minimum, Maximum:			3 8
Density, Unit:			60 YD2
Pest 6 Code, Type, Scale:	LACSE W	LACSE W	LACSE W
Height, Unit:			2 IN
Height Minimum, Maximum:			1 3
Density, Unit:			13 YD2
Pest 7 Code, Type, Scale:	ERICA W	ERICA W	ERICA W
Height, Unit:			1.5 IN
Height Minimum, Maximum:			1 2
Density, Unit:			12 YD2
Pest 8 Code, Type, Scale:	BROTE W	BROTE W	BROTE W
Height, Unit:			5 IN
Density, Unit:			3 YD2
Pest 9 Code, Type, Scale:	OXASS W	OXASS W	OXASS W
Height, Unit:			5 IN
Height Minimum, Maximum:			4 6
Density, Unit:			1 YD2
Pest10 Code, Type, Scale:	CHEAL W	CHEAL W	CHEAL W
Height, Unit:			4 IN
Height Minimum, Maximum:			3 5
Density, Unit:			3 YD2

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Application Equipment

	A	B	C
Appl. Equipment:	CO2 BKP	CO2 FORD	CO2 BKP
Equipment Type:	SPRBAC	SPTRMO	SPRBAC
Operation Pressure, Unit:	17 PSI		17 PSI
Nozzle Type:	FLAT FAN	FLAT FAN	FLAT FAN
Nozzle Size:	XR 110 02	XR 100 02	XR 110 02
Nozzle Spacing, Unit:	15 IN	20 IN	15 IN
Nozzles/Row:	8	6	8
Boom Length, Unit:	10 FT	10 FT	10 FT
Boom Height, Unit:	18 IN	20 IN	18 IN
Ground Speed, Unit:	3 MPH	2.1 MPH	3 MPH
Carrier:	H2O	MEIGS	H2O
Water Hardness (ppm CaCO3):	150		150
Spray Volume, Unit:	15 gal/ac	20 gal/ac	15 gal/ac
Mix Size, Unit:	1.8 liters	2.5 liters	1.8 liters
Propellant:	CO2	CO2	CO2
Tank Mix (Y/N):	N no		N no

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Trial ID: 11S-THP-NTC-61 Protocol ID: 11S-THP-NTC-02
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Pest Type		W Weed SETFA	W Weed ERICA	W Weed LACSE		W Weed ERICA	W Weed SETFA			
Pest Code		Setaria faberi	Conyza canadensis	Lactuca serriola		Conyza canadensis	Setaria faberi			
Pest Scientific Name		Giant foxtail	Canada horseweed	Prickly lettuce		Canada horseweed	Giant foxtail			
Pest Name										
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			
Description					8 IN					
Rating Date	5-24-2011	5-24-2011	5-24-2011	5-24-2011	6-9-2011	6-9-2011	6-9-2011			
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V1	V1	V1	V1	V3	V3	V3			
Pest Stage Majority		0.25-1IN	1-5 IN	3-15 IN		1-15 IN	3-6 IN			
Pest Density, Unit Assessed By	WJ/CB	50 YD2 WJ/CB	4 YD2 WJ/CB	2 YD2 WJ/CB	PM/JS	15.5YD2 PM/JS	62.5YD2 PM/JS			
Days After First/Last Applic.	41 13	41 13	41 13	41 13	57 29	57 29	57 29			
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1	29 DP-1	29 DP-1	29 DP-1			
Trt Treatment	Rate	Appl	1	2	3	4	5	6	7	
No. Name	Rate	Unit	Code							
1 Untreated Check				0.0 a	0.0 d	0.0 c	0.0 b	0.0 a	0.0 c	0.0 d
2 Roundup PowerMax 4.5 SL	0.77 lb ae/a	B		5.0 a	81.3 abc	98.3 a	100.0 a	0.0 a	88.8 a	27.5 c
2,4-D Ester	0.5 lb ai/a	B								
COC	1 % v/v	B								
AMS - Liquid	2.5 lb ai/a	B								
Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
3 Corvus (2.63 SC)	0.115 lb ai/a	B		2.5 a	85.8 ab	100.0 a	100.0 a	0.0 a	100.0 a	95.3 a
Atrazine	1.5 lb ai/a	B								
COC	1 % v/v	B								
Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
4 Corvus (2.63 SC)	0.115 lb ai/a	B		5.0 a	94.5 a	97.5 a	100.0 a	0.0 a	100.0 a	94.5 a
Atrazine	1.5 lb ai/a	B								
Roundup PowerMax 4.5 SL	0.77 lb ae/a	B								
AMS - Liquid	2.5 lb ai/a	B								
Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
5 Corvus (2.63 SC)	0.115 lb ai/a	B		0.0 a	95.5 a	97.2 a	100.0 a	0.0 a	93.1 a	91.9 a
Atrazine	1.5 lb ai/a	B								
Ignite 280 (2.34 SL)	0.402 lb ai/a	B								
AMS - Liquid	2.5 lb ai/a	B								
Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								
6 Corvus (2.63 SC)	0.115 lb ai/a	B		10.0 a	62.5 c	100.0 a	100.0 a	0.0 a	95.0 a	80.0 b
Sharpen 2.85 SC	0.0223 lb ai/a	B								
MSO	1 % v/v	B								
AMS - Liquid	2.5 lb ai/a	B								
Ignite 280 (2.34 SL)	0.402 lb ai/a	C								
AMS - Liquid	8.5 lb ai/100 gal	C								

Means followed by same letter do not significantly differ (P= .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 SETFA	W Weed ERICA	W Weed LACSE		W Weed ERICA	W Weed SETFA				
Pest Code		Setaria faberi	Conyza canadensis	Lactuca serriola		Conyza canadensis	Setaria faberi				
Pest Scientific Name		Giant foxtail	Canada horseweed	Prickly lettuce		Canada horseweed	Giant foxtail				
Pest Name											
Crop Code	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR	ZEAMX BCOR				
BBCH Scale											
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				
Description					8 IN						
Rating Date	5-24-2011	5-24-2011	5-24-2011	5-24-2011	6-9-2011	6-9-2011	6-9-2011				
Rating Type	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V1	V1	V1	V1	V3	V3	V3				
Pest Stage Majority		0.25-1IN	1-5 IN	3-15 IN		1-15 IN	3-6 IN				
Pest Density, Unit		50 YD2	4 YD2	2 YD2		15.5YD2	62.5YD2				
Assessed By	WJ/CB	WJ/CB	WJ/CB	WJ/CB	PM/JS	PM/JS	PM/JS				
Days After First/Last Applic.	41 13	41 13	41 13	41 13	57 29	57 29	57 29				
Plant-Eval Interval	13 DP-1	13 DP-1	13 DP-1	13 DP-1	29 DP-1	29 DP-1	29 DP-1				
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4	5	6	7
7	Lexar (3.7 SC)	0.087	lb ai/a	B	10.0 a	71.3 bc	72.5 b	100.0 a	0.3 a	70.0 b	31.3 c
	Touchdown Total (4.17 SL)	0.78	lb ai/a	B							
	AMS - Liquid	2.5	lb ai/a	B							
	Touchdown Total (4.17 SL)	0.78	lb ai/a	C							
	AMS - Liquid	2.5	lb ai/a	C							
8	SureStart (4.25 SC)	1.6	lb ai/a	A	0.0 a	2.5 d	100.0 a	100.0 a	0.0 a	100.0 a	0.0 d
	Durango DMA (4 SL)	0.75	lb ae/a	A							
	2,4-D Amine	0.5	lb ai/a	A							
	AMS - Liquid	2.5	lb ai/a	A							
	Durango DMA (4 SL)	0.75	lb ae/a	C							
	AMS - Liquid	2.5	lb ai/a	C							
9	SureStart (4.25 SC)	1.6	lb ai/a	A	0.0 a	12.5 d	100.0 a	100.0 a	0.0 a	100.0 a	5.0 d
	Atrazine	1	lb ai/a	A							
	Durango DMA (4 SL)	0.75	lb ae/a	A							
	2,4-D Amine	0.5	lb ai/a	A							
	AMS - Liquid	2.5	lb ai/a	A							
	Durango DMA (4 SL)	0.75	lb ae/a	C							
	AMS - Liquid	2.5	lb ai/a	C							
10	Roundup PowerMax 4.5 SL	0.77	lb ae/a	B	0.0 a	73.8 abc	91.3 a	100.0 a	0.0 a	83.8 a	30.0 c
	2,4-D Ester	0.5	lb ai/a	B							
	COC	1	% v/v	B							
	AMS - Liquid	2.5	lb ai/a	B							
	Ignite 280 (2.34 SL)	0.402	lb ai/a	C							
	AMS - Liquid	8.5	lb ai/100 gal	C							
LSD (P=.05)					7.71	15.55	11.51	0.00	0.23	12.83	9.93
Standard Deviation					5.31	10.70	7.92	0.00	0.16	8.82	6.83
CV					163.51	18.46	9.24	0.0	644.5	10.62	14.99
Bartlett's X2					1.357	10.279	13.45	0.0	0.0	1.523	9.407
P(Bartlett's X2)					0.852	0.246	0.009*	.	.	0.677	0.225
Replicate F					0.738	2.471	0.405	0.000	0.963	0.989	4.662
Replicate Prob(F)					0.5388	0.0842	0.7507	1.0000	0.4250	0.4135	0.0098
Treatment F					2.370	50.512	62.369	0.000	0.963	48.483	140.769
Treatment Prob(F)					0.0401	0.0001	0.0001	1.0000	0.4914	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.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 Pest Code Pest Scientific Name Pest Name Crop Code BBCH Scale Crop Scientific Name Crop Name Description Rating Date Rating Type Rating Unit Number of Subsamples Crop Stage Majority Pest Stage Majority Pest Density, Unit Assessed By Days After First/Last Applic. Plant-Eval Interval	W Weed TAROF Taraxacum offi>	W Weed AMBTR Ambrosia trifi>	W Weed SETFA Setaria faberi	W Weed CRUNU Carduus nutans	W Weed LACSE Lactuca serrio>	W Weed TAROF Taraxacum offi>	
	Common dandel>	Giant ragweed	Giant foxtail	Musk thistle	Prickly lettuce	Common dandel>	
	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	
	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	
	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	
	Corn	Corn	Corn	Corn	Corn	Corn	
	6-9-2011	6-9-2011	6-29-2011	6-29-2011	6-29-2011	6-29-2011	
	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	
	%	%	%	%	%	%	
	1	1	1	1	1	1	
	V3	V3					
			6 IN	12 IN	24 IN	10 IN	
	3 YD2		10 YD2	6 YD2	3 YD2	1 YD2	
	57 29	57 29	77 1	77 1	77 1	77 1	
	29 DP-1	29 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1	
Trt Treatment No. Name Rate Unit Appl Code	8	9	10	11	12	13	
1 Untreated Check	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b	0.0 b	
2 Roundup PowerMax 4.5 SL 2,4-D Ester COC AMS - Liquid Ignite 280 (2.34 SL) AMS - Liquid	0.77 lb ae/a 0.5 lb ai/a 1 % v/v 2.5 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	B B B B C C	98.8 a	95.0 a	0.0 c	99.0 a	99.0 a
3 Corvus (2.63 SC) Atrazine COC Ignite 280 (2.34 SL) AMS - Liquid	0.115 lb ai/a 1.5 lb ai/a 1 % v/v 0.402 lb ai/a 8.5 lb ai/100 gal	B B B C C	82.5 a	85.0 a	77.5 ab	99.0 a	99.0 a
4 Corvus (2.63 SC) Atrazine Roundup PowerMax 4.5 SL AMS - Liquid Ignite 280 (2.34 SL) AMS - Liquid	0.115 lb ai/a 1.5 lb ai/a 0.77 lb ae/a 2.5 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	B B B B C C	99.5 a	100.0 a	85.0 a	99.0 a	99.0 a
5 Corvus (2.63 SC) Atrazine Ignite 280 (2.34 SL) AMS - Liquid Ignite 280 (2.34 SL) AMS - Liquid	0.115 lb ai/a 1.5 lb ai/a 0.402 lb ai/a 2.5 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	B B B B C C	100.0 a	86.4 a	83.8 a	99.3 a	99.3 a
6 Corvus (2.63 SC) Sharpen 2.85 SC MSO AMS - Liquid Ignite 280 (2.34 SL) AMS - Liquid	0.115 lb ai/a 0.0223 lb ai/a 1 % v/v 2.5 lb ai/a 0.402 lb ai/a 8.5 lb ai/100 gal	B B B B C C	86.3 a	95.0 a	71.3 b	95.5 a	99.0 a
						89.3 a	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	AMBTR	SETFA	CRUNU	LACSE	TAROF
Pest Scientific Name	Taraxacum offi>	Ambrosia trifi>	Setaria faberi	Carduus nutans	Lactuca serrio>	Taraxacum offi>
Pest Name	Common dandel>	Giant ragweed	Giant foxtail	Musk thistle	Prickly lettuce	Common dandel>
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
Description						
Rating Date	6-9-2011	6-9-2011	6-29-2011	6-29-2011	6-29-2011	6-29-2011
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V3	V3				
Pest Stage Majority			6 IN	12 IN	24 IN	10 IN
Pest Density, Unit	3 YD2		10 YD2	6 YD2	3 YD2	1 YD2
Assessed By						
Days After First/Last Applic.	57 29	57 29	77 1	77 1	77 1	77 1
Plant-Eval Interval	29 DP-1	29 DP-1	49 DP-1	49 DP-1	49 DP-1	49 DP-1
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	8	9	10	11
			12	13		
7 Lexar (3.7 SC)	0.087 lb ai/a	B	95.0 a	72.5 a	0.0 c	91.8 a
Touchdown Total (4.17 SL)	0.78 lb ai/a	B				99.0 a
AMS - Liquid	2.5 lb ai/a	B				
Touchdown Total (4.17 SL)	0.78 lb ai/a	C				
AMS - Liquid	2.5 lb ai/a	C				
8 SureStart (4.25 SC)	1.6 lb ai/a	A	100.0 a	72.5 a	0.0 c	99.0 a
Durango DMA (4 SL)	0.75 lb ae/a	A				99.0 a
2,4-D Amine	0.5 lb ai/a	A				
AMS - Liquid	2.5 lb ai/a	A				
Durango DMA (4 SL)	0.75 lb ae/a	C				
AMS - Liquid	2.5 lb ai/a	C				
9 SureStart (4.25 SC)	1.6 lb ai/a	A	100.0 a	100.0 a	0.0 c	99.0 a
Atrazine	1 lb ai/a	A				99.0 a
Durango DMA (4 SL)	0.75 lb ae/a	A				
2,4-D Amine	0.5 lb ai/a	A				
AMS - Liquid	2.5 lb ai/a	A				
Durango DMA (4 SL)	0.75 lb ae/a	C				
AMS - Liquid	2.5 lb ai/a	C				
10 Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	100.0 a	87.5 a	0.0 c	82.0 a
2,4-D Ester	0.5 lb ai/a	B				99.0 a
COC	1 % v/v	B				
AMS - Liquid	2.5 lb ai/a	B				
Ignite 280 (2.34 SL)	0.402 lb ai/a	C				
AMS - Liquid	8.5 lb ai/100 gal	C				
LSD (P=.05)			17.57	32.98	9.28	11.84
Standard Deviation			12.09	22.68	6.39	8.14
CV			14.02	28.57	20.11	9.43
Bartlett's X2			27.589	10.086	4.834	2.768
P(Bartlett's X2)			0.001*	0.121	0.184	0.251
Replicate F			2.893	3.970	0.429	1.312
Replicate Prob(F)			0.0544	0.0187	0.7338	0.2917
Treatment F			26.222	6.808	166.152	57.353
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
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Pest Type				W Weed
Pest Code				AMBTR
Pest Scientific Name				Ambrosia trifida
Pest Name				Giant ragweed
Crop Code				ZEAMX
BBCH Scale				BCOR
Crop Scientific Name				Zea mays
Crop Name				Corn
Description				
Rating Date				6-29-2011
Rating Type				CONTRO
Rating Unit				%
Number of Subsamples				1
Crop Stage Majority				
Pest Stage Majority				20 IN
Pest Density, Unit				14 YD2
Assessed By				
Days After First/Last Applic.				77 1
Plant-Eval Interval				49 DP-1
Trt No.	Treatment Name	Rate	Unit	Appl Code
				14
1	Untreated Check			0.0 b
2	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	94.3 a
	2,4-D Ester	0.5 lb ai/a	B	
	COC	1 % v/v	B	
	AMS - Liquid	2.5 lb ai/a	B	
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
3	Corvus (2.63 SC)	0.115 lb ai/a	B	75.8 a
	Atrazine	1.5 lb ai/a	B	
	COC	1 % v/v	B	
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
4	Corvus (2.63 SC)	0.115 lb ai/a	B	98.0 a
	Atrazine	1.5 lb ai/a	B	
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	B	
	AMS - Liquid	2.5 lb ai/a	B	
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
5	Corvus (2.63 SC)	0.115 lb ai/a	B	83.7 a
	Atrazine	1.5 lb ai/a	B	
	Ignite 280 (2.34 SL)	0.402 lb ai/a	B	
	AMS - Liquid	2.5 lb ai/a	B	
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	
6	Corvus (2.63 SC)	0.115 lb ai/a	B	85.8 a
	Sharpen 2.85 SC	0.0223 lb ai/a	B	
	MSO	1 % v/v	B	
	AMS - Liquid	2.5 lb ai/a	B	
	Ignite 280 (2.34 SL)	0.402 lb ai/a	C	
	AMS - Liquid	8.5 lb ai/100 gal	C	

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.

Purdue University

Pest Type				W Weed	
Pest Code				AMBTR	
Pest Scientific Name				Ambrosia trifida	
Pest Name				Giant ragweed	
Crop Code				ZEAMX	
BBCH Scale				BCOR	
Crop Scientific Name				Zea mays	
Crop Name				Corn	
Description					
Rating Date				6-29-2011	
Rating Type				CONTRO	
Rating Unit				%	
Number of Subsamples				1	
Crop Stage Majority					
Pest Stage Majority				20 IN	
Pest Density, Unit				14 YD2	
Assessed By					
Days After First/Last Applic.				77 1	
Plant-Eval Interval				49 DP-1	
Trt No.	Treatment Name	Rate	Unit	Appl Code	
					14
7	Lexar (3.7 SC)	0.087	lb ai/a	B	86.8 a
	Touchdown Total (4.17 SL)	0.78	lb ai/a	B	
	AMS - Liquid	2.5	lb ai/a	B	
	Touchdown Total (4.17 SL)	0.78	lb ai/a	C	
	AMS - Liquid	2.5	lb ai/a	C	
8	SureStart (4.25 SC)	1.6	lb ai/a	A	74.5 a
	Durango DMA (4 SL)	0.75	lb ae/a	A	
	2,4-D Amine	0.5	lb ai/a	A	
	AMS - Liquid	2.5	lb ai/a	A	
	Durango DMA (4 SL)	0.75	lb ae/a	C	
	AMS - Liquid	2.5	lb ai/a	C	
9	SureStart (4.25 SC)	1.6	lb ai/a	A	99.0 a
	Atrazine	1	lb ai/a	A	
	Durango DMA (4 SL)	0.75	lb ae/a	A	
	2,4-D Amine	0.5	lb ai/a	A	
	AMS - Liquid	2.5	lb ai/a	A	
	Durango DMA (4 SL)	0.75	lb ae/a	C	
	AMS - Liquid	2.5	lb ai/a	C	
10	Roundup PowerMax 4.5 SL	0.77	lb ae/a	B	99.0 a
	2,4-D Ester	0.5	lb ai/a	B	
	COC	1	% v/v	B	
	AMS - Liquid	2.5	lb ai/a	B	
	Ignite 280 (2.34 SL)	0.402	lb ai/a	C	
	AMS - Liquid	8.5	lb ai/100 gal	C	
	LSD (P=.05)				25.44
	Standard Deviation				17.50
	CV				21.96
	Bartlett's X2				15.495
	P(Bartlett's X2)				0.017*
	Replicate F				3.333
	Replicate Prob(F)				0.0348
	Treatment F				11.305
	Treatment Prob(F)				0.0001

Means followed by same letter do not significantly differ (P=.05, Student-Newman-Keuls)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Purdue University

Corvus, Balance Fless, Capreno

Trial ID: 11S-THP-NTC-61

Protocol ID: 11S-THP-NTC-02

Location: Throckmorton
Project ID:Study Director: White/Marquardt
Investigator: Dr. Bill Johnson

Sponsor Contact: Bayer - Dave Lamore

Pest Type

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

Pest Code

SETFA, Setaria faberi, = US

ERICA, Conyza canadensis, = US

LACSE, Lactuca serriola, = US

TAROF, Taraxacum officinale, = US

AMBTR, Ambrosia trifida, = US

CRUNU, Carduus nutans, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

YD2 = per square yard

Plant-Eval Interval

13 DP-1 = 1 ZEAMD 5-11-2011

29 DP-1 = 1 ZEAMD 5-11-2011

49 DP-1 = 1 ZEAMD 5-11-2011