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Corvus and Capreno two pass weed control programs for field corn.

Trial ID: 12S-THP-CTC-05 Protocol ID: 12S-THP-CTC-05
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: HP12NARBLN 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: E established
Initiation Date: 3-16-2012

Trial Location

City: Lafayette
State/Prov.: IN
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:** 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 **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: Beck's 6175 **Description:** HXX, LL, RR2
BBCH Scale: BCOR **Planting Date:** 4-18-2012
Planting Method: PLANTD planted **Rate, Unit:** 34000 S/A
Depth, Unit: 1.5 IN
Row Spacing, Unit: 30 IN
Soil Moisture: SLIWET slightly wet **Soil Temperature, Unit:** 60 F
Emergence Date: 5-2-2012

Pest Description

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

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Site and Design	
Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Plot Area, Unit: 300 FT ² Replications: 4	Site Type: FIELD field Experimental Unit: 1 PLOT plot Tillage Type: CONTIL conventional-till Study Design: RACOBL Randomized Complete Block (RCB) Untreated Arrangement: INCLUDED single control randomized in each block

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:	4-18-2012	5-23-2012
Time of Day:	11 AM	9:30
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	MIPOCR
Application Placement:	FOLIAR	FOLIAR
Applied By:	MW	MW
Air Temperature, Unit:	68 F	82 F
% Relative Humidity:	41	39.5
Wind Velocity, Unit:	5 MPH	2.5 MPH
Wind Direction:	S	SE
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	60 F	69 F
Soil Moisture:	SLIWET	DRY
% Cloud Cover:	15	5

Crop Stage At Each Application		
	A	B
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH
Stage Majority, Percent:		V3
Height, Unit:		13 IN
Height Minimum, Maximum:		10 16

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AMBTR W	AMBTR W
Height, Unit:		7.5 IN
Height Minimum, Maximum:		2.5 12.5
Density, Unit:		22 YD2
Pest 2 Code, Type, Scale:	CHEAL W	CHEAL W
Height, Unit:		2.75 IN
Height Minimum, Maximum:		1 4.5
Density, Unit:		10 YD2
Pest 3 Code, Type, Scale:	SETFA W	SETFA W
Height, Unit:		5 IN
Height Minimum, Maximum:		2 10
Density, Unit:		60 YD2

Application Equipment

	A	B
Appl. Equipment:	CO2 FORD	CO2 FORD
Equipment Type:	SPTRMO	SPTRMO
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
Boom Height, Unit:	20 IN	20 IN
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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Corvus and Capreno two pass weed control programs for field corn.

Trial ID: 12S-THP-CTC-05 Protocol ID: 12S-THP-CTC-05
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: HP12NARBLN Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Pest Type	W Weed	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	CHEAL		SETFA	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifi>	Setaria faberi	Chenopodium al>		Setaria faberi	Ambrosia trifi>	Chenopodium al>
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu>		Giant foxtail	Giant ragweed	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	5-16-2012	5-16-2012	5-16-2012	5-16-2012	5-22-2012	5-22-2012	5-22-2012
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V3	V3	V3	V3	V4	V4	V4
Pest Stage Majority	1-6 IN	1-4 IN	1-4 IN		4 IN	6 IN	3 IN
Pest Density, Unit	25 M2	60 M2	10 M2		25 FT2	8 YD2	6 FT2
Assessed By	PM/GC	PM/GC	PM/GC	PM/GC	MW	MW	MW
Days After First/Last Applic.	28 28	28 28	28 28	28 28	34 34	34 34	34 34
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	34 DP-1	34 DP-1	34 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	20 DE-1	20 DE-1	20 DE-1
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit
Code	1	2	3	4	5	6	7
1 Untreated Check	0.0 d	0.0 b	0.0 b	0.0 a	0.0 b	0.0 d	0.0 b
2 Corvus (2.63 SC)	0.0616 lb ai/a	98.3 a	100.0 a	0.0 a	91.3 a	63.8 abc	99.0 a
Atrazine	1 lb ai/a						
Liberty 280 (2.34 SL)	0.402 lb ai/a						
Laudis (3.5 SL)	0.082 lb ai/a						
Clarity (4 SL)	0.25 lb ae/a						
AMS - Liquid	8.5 lb ai/100 gal						
3 Corvus (2.63 SC)	0.0616 lb ai/a	99.0 a	100.0 a	0.0 a	95.0 a	62.5 abc	99.0 a
Atrazine	1 lb ai/a						
Liberty 280 (2.34 SL)	0.402 lb ai/a						
Laudis (3.5 SL)	0.082 lb ai/a						
Clarity (4 SL)	0.5 lb ae/a						
AMS - Liquid	8.5 lb ai/100 gal						
4 Corvus (2.63 SC)	0.0616 lb ai/a	96.4 a	98.9 a	0.0 a	93.3 a	12.5 d	98.2 a
Atrazine	1 lb ai/a						
Liberty 280 (2.34 SL)	0.402 lb ai/a						
Capreno (3.45 SL)	0.081 lb ai/a						
Clarity (4 SL)	0.25 lb ae/a						
AMS - Liquid	8.5 lb ai/100 gal						
5 Corvus (2.63 SC)	0.0616 lb ai/a	97.8 a	99.0 a	0.0 a	93.5 a	68.8 ab	99.0 a
Atrazine	1 lb ai/a						
Liberty 280 (2.34 SL)	0.402 lb ai/a						
Capreno (3.45 SL)	0.081 lb ai/a						
Clarity (4 SL)	0.5 lb ae/a						
AMS - Liquid	8.5 lb ai/100 gal						
6 Lumax (3.95 SC)	1.48 lb ai/a	96.3 a	99.1 a	0.0 a	97.0 a	50.0 bc	99.0 a
Halex GT (4.39 SC)	1.98 lb ai/a						
NIS	0.25 % v/v						
7 SureStart (4.25 SC)	1.06 lb ai/a	97.4 a	99.2 a	0.0 a	92.0 a	58.8 abc	91.8 a
Durango DMA (4 SL)	0.69 lb ae/a						
Status (56 SG)	0.175 lb ai/a						
AMS - Liquid	8.5 lb ai/100 gal						

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	W Weed	W Weed		W Weed	W Weed	W Weed
Pest Code	AMBTR	SETFA	CHEAL		SETFA	AMBTR	CHEAL
Pest Scientific Name	Ambrosia trifid	Setaria faberi	Chenopodium al		Setaria faberi	Ambrosia trifid	Chenopodium al
Pest Name	Giant ragweed	Giant foxtail	Common lambsqu		Giant foxtail	Giant ragweed	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	5-16-2012	5-16-2012	5-16-2012	5-16-2012	5-22-2012	5-22-2012	5-22-2012
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%	%
Number of Subsamples	1	1	1	1	1	1	1
Crop Stage Majority	V3	V3	V3	V3	V4	V4	V4
Pest Stage Majority	1-6 IN	1-4 IN	1-4 IN	1-4 IN	4 IN	6 IN	3 IN
Pest Density, Unit	25 M2	60 M2	10 M2		25 FT2	8 YD2	6 FT2
Assessed By	PM/GC	PM/GC	PM/GC	PM/GC	MW	MW	MW
Days After First/Last Applic.	28 28	28 28	28 28	28 28	34 34	34 34	34 34
Plant-Eval Interval	28 DP-1	28 DP-1	28 DP-1	28 DP-1	34 DP-1	34 DP-1	34 DP-1
Days After Emergence	14 DE-1	14 DE-1	14 DE-1	14 DE-1	20 DE-1	20 DE-1	20 DE-1
Trt Treatment	Rate	Rate	Rate	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit	Unit	Unit	Unit
	1	2	3	4	5	6	7
8 SureStart (4.25 SC)	1.06 lb ai/a						
Durango DMA (4 SL)	0.75 lb ae/a						
AMS - Liquid	8.5 lb ai/100 gal						
	38.5 c	96.8 a	98.6 a	0.0 a	98.5 a	40.0 c	99.0 a
9 SureStart (4.25 SC)	1.33 lb ai/a						
Durango DMA (4 SL)	0.75 lb ae/a						
AMS - Liquid	8.5 lb ai/100 gal						
	71.8 ab	98.2 a	99.4 a	0.0 a	96.0 a	72.5 ab	99.0 a
10 SureStart (4.25 SC)	1.33 lb ai/a						
Atrazine	1 lb ai/a						
Durango DMA (4 SL)	0.75 lb ae/a						
AMS - Liquid	8.5 lb ai/100 gal						
	81.3 a	98.5 a	99.5 a	0.0 a	95.3 a	78.8 a	99.0 a
LSD (P=.05)	18.30	2.67	1.81	0.00	5.89	17.96	6.75
Standard Deviation	12.41	1.81	1.22	0.00	4.05	12.38	4.64
CV	25.1	2.06	1.37	0.0	4.76	24.39	5.26
Bartlett's X2	5.893	4.45	0.049	0.0	16.742	13.791	0.0
P(Bartlett's X2)	0.659	0.616	0.824	.	0.033*	0.087	.
Replicate F	0.567	11.898	6.867	0.000	3.237	2.529	1.204
Replicate Prob(F)	0.6429	0.0001	0.0023	1.0000	0.0384	0.0784	0.3281
Treatment F	17.462	1165.217	2632.964	0.000	219.381	17.712	179.475
Treatment Prob(F)	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001

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Pest Type			W Weed AMBTR	W Weed SETFA	W Weed CHEAL		W Weed SETFA	W Weed AMBTR				
Pest Code			Ambrosia trifi>	Setaria faberi	Chenopodium al>		Setaria faberi	Ambrosia trifi>				
Pest Scientific Name												
Pest Name			Giant ragweed	Giant foxtail	Common lambsqu>		Giant foxtail	Giant ragweed				
Crop Code	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX	ZEAMX				
BBCH Scale	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR	BCOR				
Crop Scientific Name	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays	Zea mays				
Crop Name	Corn	Corn	Corn	Corn	Corn	Corn	Corn	Corn				
Rating Date	5-22-2012	5-29-2012	5-29-2012	5-29-2012	5-29-2012	6-26-2012	6-26-2012	6-26-2012				
Rating Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1	1				
Crop Stage Majority	V4	V6	V6	V6	V6	V12-V13	V12-V13	V12-V13				
Pest Stage Majority			4-24 IN	1-12 IN	1-12 IN		6-30 IN	6-48 IN				
Pest Density, Unit			12 YD2	24 YD2	8 YD2		20 M2	22 M2				
Assessed By	MW	PM	PM	PM	PM	PM	PM	PM				
Days After First/Last Applic.	34 34	41 6	41 6	41 6	41 6	69 34	69 34	69 34				
Plant-Eval Interval	34 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	69 DP-1	69 DP-1	69 DP-1				
Days After Emergence	20 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	55 DE-1	55 DE-1	55 DE-1				
Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12	13	14	15
1	Untreated Check				0.0 a	0.00 b	0.0 e	0.0 b	0.0 b	0.0 a	0.0 c	0.0 c
2	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Laudis (3.5 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.082 0.25 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	0.0 a	0.25 b	92.0 a	100.0 a	100.0 a	0.0 a	92.0 a	91.3 a
3	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Laudis (3.5 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.082 0.5 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	0.0 a	0.00 b	93.8 a	100.0 a	100.0 a	0.0 a	94.5 a	96.3 a
4	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Capreno (3.45 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.081 0.25 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	0.0 a	1.50 a	86.8 ab	97.5 a	100.0 a	13.8 a	79.5 b	88.8 a
5	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Capreno (3.45 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.081 0.5 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	0.0 a	0.50 b	95.0 a	100.0 a	100.0 a	0.0 a	95.8 a	97.5 a
6	Lumax (3.95 SC) Halex GT (4.39 SC) NIS	1.48 1.98 0.25	lb ai/a lb ai/a % v/v	A B B	0.0 a	0.00 b	70.0 cd	100.0 a	99.5 a	0.3 a	97.3 a	75.0 ab
7	SureStart (4.25 SC) Durango DMA (4 SL) Status (56 SG) AMS - Liquid	1.06 0.69 0.175 8.5	lb ai/a lb ae/a lb ai/a lb ai/100 gal	A B B B	0.0 a	0.38 b	73.8 bcd	100.0 a	97.5 a	2.0 a	95.3 a	96.3 a

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Pest Type			W Weed AMBTR	W Weed SETFA	W Weed CHEAL			W Weed SETFA	W Weed AMBTR			
Pest Code			Ambrosia trifi>	Setaria faberi	Chenopodium ai>			Setaria faberi	Ambrosia trifi>			
Pest Scientific Name			Giant ragweed	Giant foxtail	Common lambsqu>			Giant foxtail	Giant ragweed			
Pest Name			ZEAMX	ZEAMX	ZEAMX	ZEAMX			ZEAMX			
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	5-22-2012	5-29-2012	5-29-2012	5-29-2012	5-29-2012	6-26-2012			6-26-2012			
Rating Type	PHYGEN	PHYGEN	CONTRO	CONTRO	CONTRO	PHYGEN			CONTRO			
Rating Unit	%	%	%	%	%	%			%			
Number of Subsamples	1	1	1	1	1	1			1			
Crop Stage Majority	V4	V6	V6	V6	V6	V12-V13			V12-V13			
Pest Stage Majority			4-24 IN	1-12 IN	1-12 IN				6-30 IN			
Pest Density, Unit			12 YD2	24 YD2	8 YD2				20 M2			
Assessed By	MW	PM	PM	PM	PM	PM			PM			
Days After First/Last Applic.	34 34	41 6	41 6	41 6	41 6	69 34			69 34			
Plant-Eval Interval	34 DP-1	41 DP-1	41 DP-1	41 DP-1	41 DP-1	69 DP-1			69 DP-1			
Days After Emergence	20 DE-1	27 DE-1	27 DE-1	27 DE-1	27 DE-1	55 DE-1			55 DE-1			
Trt No.	Treatment Name	Rate	Unit	Appl Code	8	9	10	11	12	13	14	15
8	SureStart (4.25 SC)	1.06 lb ai/a	A		0.0 a	0.00 b	65.8 d	100.0 a	100.0 a	1.0 a	95.8 a	66.3 b
	Durango DMA (4 SL)	0.75 lb ae/a	B									
	AMS - Liquid	8.5 lb ai/100 gal	B									
9	SureStart (4.25 SC)	1.33 lb ai/a	A		0.0 a	0.00 b	84.0 abc	100.0 a	100.0 a	0.3 a	94.0 a	78.3 ab
	Durango DMA (4 SL)	0.75 lb ae/a	B									
	AMS - Liquid	8.5 lb ai/100 gal	B									
10	SureStart (4.25 SC)	1.33 lb ai/a	A		0.0 a	0.00 b	84.3 abc	100.0 a	100.0 a	0.3 a	95.8 a	83.8 ab
	Atrazine	1 lb ai/a	A									
	Durango DMA (4 SL)	0.75 lb ae/a	B									
	AMS - Liquid	8.5 lb ai/100 gal	B									
LSD (P=.05)		0.00	0.742		0.00	0.512	10.99	2.29	2.29	8.27	8.58	14.85
Standard Deviation		0.00	0.512		0.00	194.92	7.57	1.58	1.58	5.70	5.91	10.23
CV		0.0	194.92		0.0	4.418	10.16	1.76	1.76	325.73	7.04	13.23
Bartlett's X2		0.0	4.418		0.0	0.22	16.275	0.0	5.639	56.266	26.282	24.086
P(Bartlett's X2)		.	0.22		.	0.039*	0.039*	.	0.018*	0.001*	0.001*	0.002*
Replicate F		0.000	0.469		0.000	0.469	3.820	1.000	1.446	1.207	2.323	0.944
Replicate Prob(F)		1.0000	0.7060		1.0000	0.7060	0.0211	0.4079	0.2512	0.3259	0.0974	0.4330
Treatment F		0.000	3.419		0.000	3.419	54.867	1592.111	1597.429	2.238	102.536	32.242
Treatment Prob(F)		1.0000	0.0063		1.0000	0.0063	0.0001	0.0001	0.0001	0.0511	0.0001	0.0001

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Pest Type				W Weed	
Pest Code				CHEAL	
Pest Scientific Name				Chenopodium al>	
Pest Name				Common lambsqu>	
Crop Code				ZEAMX	ZEAMD
BBCH Scale				BCOR	BCOR
Crop Scientific Name				Zea mays	Zea mays inden>
Crop Name				Corn	Dent corn
Rating Date				6-26-2012	9-24-2012
Rating Type				CONTRO	YIELD
Rating Unit				%	bu/ac
Number of Subsamples				1	1
Crop Stage Majority				V12-V13	
Pest Stage Majority				6-30 IN	
Pest Density, Unit				10 M2	
Assessed By					
Days After First/Last Applic.				69 34	159 124
Plant-Eval Interval				69 DP-1	159 DP-1
Days After Emergence				55 DE-1	145 DE-1
Trt No.	Treatment Name	Rate	Unit	Appl Code	
					16 17
1	Untreated Check				0.0 b 16.25 b
2	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Laudis (3.5 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.082 0.25 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	100.0 a 136.93 a
3	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Laudis (3.5 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.082 0.5 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	100.0 a 148.05 a
4	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Capreno (3.45 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.081 0.25 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	100.0 a 135.20 a
5	Corvus (2.63 SC) Atrazine Liberty 280 (2.34 SL) Capreno (3.45 SL) Clarity (4 SL) AMS - Liquid	0.0616 1 0.402 0.081 0.5 8.5	lb ai/a lb ai/a lb ai/a lb ai/a lb ae/a lb ai/100 gal	A A B B B B	100.0 a 136.25 a
6	Lumax (3.95 SC) Halex GT (4.39 SC) NIS	1.48 1.98 0.25	lb ai/a lb ai/a % v/v	A B B	100.0 a 112.10 a
7	SureStart (4.25 SC) Durango DMA (4 SL) Status (56 SG) AMS - Liquid	1.06 0.69 0.175 8.5	lb ai/a lb ae/a lb ai/a lb ai/100 gal	A B B B	100.0 a 109.43 a

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Pest Type	W Weed			
Pest Code	CHEAL			
Pest Scientific Name	Chenopodium al>			
Pest Name	Common lambsqu>			
Crop Code	ZEAMX		ZEAMD	
BBCH Scale	BCOR		BCOR	
Crop Scientific Name	Zea mays		Zea mays inden>	
Crop Name	Corn		Dent corn	
Rating Date	6-26-2012		9-24-2012	
Rating Type	CONTRO		YIELD	
Rating Unit	%		bu/ac	
Number of Subsamples	1		1	
Crop Stage Majority	V12-V13			
Pest Stage Majority	6-30 IN			
Pest Density, Unit	10 M2			
Assessed By				
Days After First/Last Applic.	69 34		159 124	
Plant-Eval Interval	69 DP-1		159 DP-1	
Days After Emergence	55 DE-1		145 DE-1	
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code	16	17
8 SureStart (4.25 SC)	1.06 lb ai/a	A	100.0 a	134.38 a
Durango DMA (4 SL)	0.75 lb ae/a	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
9 SureStart (4.25 SC)	1.33 lb ai/a	A	100.0 a	141.75 a
Durango DMA (4 SL)	0.75 lb ae/a	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
10 SureStart (4.25 SC)	1.33 lb ai/a	A	100.0 a	119.73 a
Atrazine	1 lb ai/a	A		
Durango DMA (4 SL)	0.75 lb ae/a	B		
AMS - Liquid	8.5 lb ai/100 gal	B		
LSD (P=.05)			0.00	34.125
Standard Deviation			0.00	23.519
CV			0.0	19.76
Bartlett's X2			0.0	12.762
P(Bartlett's X2)			.	0.174
Replicate F			0.000	2.092
Replicate Prob(F)			1.0000	0.1247
Treatment F			0.000	10.588
Treatment Prob(F)			1.0000	0.0001

Purdue University

Corvus and Capreno two pass weed control programs for field corn.

Trial ID: 12S-THP-CTC-05 Protocol ID: 12S-THP-CTC-05
 Location: Throckmorton Study Director: White/Marquardt
 Project ID: HP12NARBLN Investigator: Dr. Bill Johnson
 Sponsor Contact: Bayer - Dave Lamore

Pest Type

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

Pest Code

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

CHEAL, Chenopodium album, = US

Crop Code

ZEAMX, BCOR, Zea mays, = US

ZEAMD, BCOR, Zea mays indentata, = US

Rating Type

CONTRO = control / burndown or knockdown

PHYGEN = phytotoxicity - general / injury

YIELD = yield

Rating Unit

% = percent

bu/ac = bushels per acre

M2 = per square meter

FT2 = per square foot

YD2 = per square yard

Plant-Eval Interval

28 DP-1 = 1 ZEAMD 4-18-2012

34 DP-1 = 1 ZEAMD 4-18-2012

41 DP-1 = 1 ZEAMD 4-18-2012

69 DP-1 = 1 ZEAMD 4-18-2012

159 DP-1 = 1 ZEAMD 4-18-2012