

# Purdue University

## Corvus, Balance Flexx, Capreno, Laudis One Pass Weed Management Programs for Corn

Trial ID: 11S-THP-CTC-12

Protocol ID: 11S-THP-CTC-112

Location: Throckmorton  
Project ID: HP11NARBLIStudy Director: White/Marquardt  
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:** 4-8-2011

### 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**Phone No.:** 765-494-0891**E-mail:** mdwhite@purdue.edu**Investigator:** Dr. Bill Johnson**Title:** Professor**Affiliation:** Purdue University**Address:** 915 W State Street**Location:** West Lafayette, IN, USA**Postal Code:** 47907**Phone No.:** 765-494-4656**E-mail:** wji@purdue.edu**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**Fax No.:** 765-538-3423**State/Prov.:** IN**Postal Code:** 47909**Country:** USA

United States

**E-mail:** jayyoung@purdue.edu

### Crop Description

**Crop 1:** ZEAMD Zea mays indentata Dent corn**Variety:** Pioneer 33W84**BBCH Scale:** BCOR**Description:** HXX LL RR2**Planting Date:** 5-12-2011**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:** 70.5 F**Emergence Date:** 5-22-2011

### 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:** ABUTH *Abutilon theophrasti***Common Name:** Velvetleaf

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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 FT <sup>2</sup>	Tillage Type: CONTIL conventional-till
Replications: 4	Study Design: RACOBL Randomized Complete Block (RCB)
	Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description	
Description Name: TPAC - Field 4B	
% OM: 2.9	Texture: SIL silt loam
pH: 6.2	Soil Name: Toronto-Millbrook
CEC: 13.3	

Application Description			
	A	B	C
Application Date:	5-12-2011	6-1-2011	6-9-2011
Time of Day:		10 AM	11:40 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	ATPLAN	EAPOCR	MIPOCR
Application Placement:	FOLIAR	FOLIAR	FOLIAR
Applied By:	RT	MW	MW
Air Temperature, Unit:	79 F	74.2 F	76 F
% Relative Humidity:	43	47	68
Wind Velocity, Unit:	9.5 MPH	1.8 MPH	8 MPH
Wind Direction:		SE	SW
Dew Presence (Y/N):	N no	Y yes	N no
Soil Temperature, Unit:	70.5 F	70 F	73 F
Soil Moisture:	SLIWET	SLIWET	DRY
% Cloud Cover:	40	20	90

Crop Stage At Each Application			
	A	B	C
Crop 1 Code, BBCH Scale:	ZEAMD BCOR	ZEAMD BCOR	ZEAMD BCOR
Stage Scale Used:		BBCH	BBCH
Stage Majority, Percent:		V6	V3
Height, Unit:			8.5 IN
Height Minimum, Maximum:			8 9

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### Pest Stage At Each Application

	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W
<b>Height, Unit:</b>		2.5 IN	4 IN
<b>Height Minimum, Maximum:</b>		1 4	2 6
<b>Density, Unit:</b>		60 YD2	90 YD2
<b>Pest 2 Code, Type, Scale:</b>	AMBTR W	AMBTR W	AMBTR W
<b>Height, Unit:</b>		2.5 IN	5.5 IN
<b>Height Minimum, Maximum:</b>		1 4	3 8
<b>Density, Unit:</b>		12 YD2	20 YD2
<b>Pest 3 Code, Type, Scale:</b>	ABUTH W	ABUTH W	ABUTH W
<b>Height, Unit:</b>		1 IN	3 IN
<b>Height Minimum, Maximum:</b>			2 4
<b>Density, Unit:</b>		4 YD2	5 YD2

### Application Equipment

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

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## Corvus, Balance Flexx, Capreno, Laudis One Pass Weed Management Programs for Corn

Trial ID: 11S-THP-CTC-12      Protocol ID: 11S-THP-CTC-112

Location: Throckmorton      Study Director: White/Marquardt  
 Project ID: HP11NARBLI      Investigator: Dr. Bill Johnson

Sponsor Contact: Bayer - Dave Lamore

Pest Type		W Weed	W Weed		W Weed	W Weed		W Weed		
Pest Code		AMBTR	SETFA		AMBTR	SETFA		SETFA		
Pest Scientific Name		Ambrosia trifi>	Setaria faberi		Ambrosia trifi>	Setaria faberi		Setaria faberi		
Pest Name		Giant ragweed	Giant foxtail		Giant ragweed	Giant foxtail		Giant foxtail		
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	6-1-2011	6-1-2011	6-1-2011	6-9-2011	6-9-2011	6-9-2011	6-16-2011	6-16-2011		
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO		
Rating Unit	%	%	%	%	%	%	%	%		
Number of Subsamples	1	1	1	1	1	1	1	1		
Crop Stage Majority				V5	V5	V5	V5	V5		
Pest Stage Majority		1-4 IN	1-3 IN		1-15 IN	1-12 IN		12-15 IN		
Pest Density, Unit		6.5 YD2	27.5 YD2		17.5 YD2	65 YD2		25 YD2		
Assessed By	RT/JR	RT/JR	RT/JR	CB/AR	CB/AR	CB/AR				
Days After First/Last Applic.	20 20	20 20	20 20	28 8	28 8	28 8	35 7	35 7		
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1		
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	18 DE-1	18 DE-1	18 DE-1	25 DE-1	25 DE-1		
Trt Treatment	Rate	Appl								
No. Name	Rate Unit	Code	1	2	3	4	5	6	7	8
1 Untreated Check			0.0 a	0.0 b	0.0 c	0.0 a	0.0 b	0.0 c	0.0 b	0.0 d
2 Corvus (2.63 SC) Atrazine	0.115 lb ai/a 1.5 lb ai/a	A A	0.0 a	60.8 a	53.8 b	0.0 a	84.0 a	96.0 a	0.0 b	93.3 a
3 Corvus (2.63 SC) Sharpen 2.85 SC	0.115 lb ai/a 0.067 lb ai/a	A A	0.0 a	65.0 a	70.8 b	0.0 a	90.0 a	93.5 a	0.0 b	90.8 a
4 Corvus (2.63 SC) Atrazine	0.115 lb ai/a 1.5 lb ai/a	B B	0.0 a	0.0 b	0.0 c	0.0 a	91.8 a	73.8 ab	0.0 b	62.5 b
5 Capreno (3.45 SL) COC AMS - Liquid	0.081 lb ai/a 1 % v/v 8.5 lb ai/100 gal	C C C	0.0 a	0.0 b	0.0 c	0.0 a	0.0 b	0.0 c	21.3 a	40.0 c
6 Capreno (3.45 SL) Roundup PowerMax 4.5 SL AMS - Liquid	0.081 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal	C C C	0.0 a	0.0 b	0.0 c	0.0 a	0.5 b	0.0 c	19.5 a	93.8 a
7 Capreno (3.45 SL) Atrazine Roundup PowerMax 4.5 SL AMS - Liquid	0.081 lb ai/a 1 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal	C C C C	0.0 a	0.0 b	0.0 c	0.0 a	23.0 b	20.0 c	15.0 a	98.3 a
8 Lexar (3.7 SC)	2.78 lb ai/a	A	0.0 a	30.0 b	71.3 b	0.0 a	65.0 a	92.8 a	0.0 b	85.8 a
9 Lexar (3.7 SC)	2.78 lb ai/a	B	0.0 a	1.8 b	0.0 c	0.0 a	70.5 a	55.0 b	2.5 b	58.8 b
10 SureStart (4.25 SC) Atrazine	1.6 lb ai/a 1 lb ai/a	A A	0.0 a	81.3 a	99.0 a	0.0 a	78.8 a	100.0 a	0.0 b	99.5 a
11 Halx GT (4.39 SC) NIS AMS - Liquid	1.98 lb ai/a 0.25 % v/v 8.5 lb ai/100 gal	C C C	0.0 a	0.0 b	0.0 c	0.0 a	0.0 b	0.0 c	18.8 a	93.8 a

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				
Pest Code	AMBTR		SETFA		AMBTR		SETFA				
Pest Scientific Name	Ambrosia trifida		Setaria faberi		Ambrosia trifida		Setaria faberi				
Pest Name	Giant ragweed		Giant foxtail		Giant ragweed		Giant foxtail				
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	6-1-2011	6-1-2011	6-1-2011	6-9-2011	6-9-2011	6-9-2011	6-16-2011	6-16-2011			
Rating Type	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	PHYGEN	CONTRO			
Rating Unit	%	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1	1			
Crop Stage Majority				V5	V5	V5	V5	V5			
Pest Stage Majority		1-4 IN	1-3 IN		1-15 IN	1-12 IN		12-15 IN			
Pest Density, Unit		6.5 YD2	27.5YD2		17.5YD2	65 YD2		25 YD2			
Assessed By	RT/JR	RT/JR	RT/JR	CB/AR	CB/AR	CB/AR					
Days After First/Last Applic.	20 20	20 20	20 20	28 8	28 8	28 8	35 7	35 7			
Plant-Eval Interval	20 DP-1	20 DP-1	20 DP-1	28 DP-1	28 DP-1	28 DP-1	35 DP-1	35 DP-1			
Days After Emergence	10 DE-1	10 DE-1	10 DE-1	18 DE-1	18 DE-1	18 DE-1	25 DE-1	25 DE-1			
Trt Treatment	Rate	Unit	Appl Code	1	2	3	4	5	6	7	8
12 SureStart (4.25 SC)	1.06 lb ai/a	C		0.0 a	0.0 b	0.0 c	0.0 a	0.0 b	0.0 c	22.5 a	97.0 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C									
AMS - Liquid	8.5 lb ai/100 gal	C									
LSD (P=.05)	0.00			22.88	21.24	0.00	30.36	24.72	6.22	12.41	
Standard Deviation	0.00			15.85	14.71	0.00	21.03	17.12	4.31	8.59	
CV	0.0			79.61	59.89	0.0	50.12	38.69	51.97	11.29	
Bartlett's X2	0.0			5.004	19.077	0.0	42.915	27.103	2.14	21.894	
P(Bartlett's X2)	.			0.172	0.001*	.	0.001*	0.001*	0.829	0.016*	
Replicate F	0.000			1.236	0.089	0.000	0.130	0.031	1.396	0.057	
Replicate Prob(F)	1.0000			0.3129	0.9655	1.0000	0.9417	0.9924	0.2614	0.9816	
Treatment F	0.000			15.446	26.104	0.000	15.111	27.203	21.461	50.631	
Treatment Prob(F)	1.0000			0.0001	0.0001	1.0000	0.0001	0.0001	0.0001	0.0001	

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Pest Type	W Weed AMBTR	W Weed ABUTH	W Weed IPOHE		W Weed SETFA	W Weed AMBTR	W Weed IPOHE				
Pest Code	AMBTR	ABUTH	IPOHE		SETFA	AMBTR	IPOHE				
Pest Scientific Name	Ambrosia trifida>	Abutilon theophrasti>	Ipomoea hederacea>		Setaria faberii>	Ambrosia trifida>	Ipomoea hederacea>				
Pest Name	Giant ragweed	Velvetleaf	Ivyleaf mornin>		Giant foxtail	Giant ragweed	Ivyleaf mornin>				
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	6-16-2011	6-16-2011	6-16-2011	7-12-2011	7-12-2011	7-12-2011	7-12-2011				
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%	%				
Number of Subsamples	1	1	1	1	1	1	1				
Crop Stage Majority	V5	V5	V5	V15-V16	V15-V16	V15-V16	V15-V16				
Pest Stage Majority	3-20 IN	10 IN	6-12 IN		36-48 IN	48-72 IN	12-24 IN				
Pest Density, Unit Assessed By	10 YD2	11 YD2	1 YD2		50 YD2	15 YD2	2.5 YD2				
Days After First/Last Applic.	35 7	35 7	35 7	61 33	61 33	61 33	61 33				
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1				
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1				
Trt	Treatment	Rate	Unit	Appl Code	9	10	11	12	13	14	15
1	Untreated Check				0.0 d	0.0 b	0.0 c	0.0 a	0.0 c	0.0 c	0.0 b
2	Corvus (2.63 SC) Atrazine	0.115 lb ai/a 1.5 lb ai/a		A A	89.5 a	100.0 a	92.5 a	0.0 a	92.3 a	87.0 a	95.0 a
3	Corvus (2.63 SC) Sharpen 2.85 SC	0.115 lb ai/a 0.067 lb ai/a		A A	90.8 a	100.0 a	93.8 a	0.0 a	81.3 a	82.8 a	97.5 a
4	Corvus (2.63 SC) Atrazine	0.115 lb ai/a 1.5 lb ai/a		B B	92.5 a	100.0 a	93.3 a	0.0 a	36.3 b	89.5 a	100.0 a
5	Capreno (3.45 SL) COC AMS - Liquid	0.081 lb ai/a 1 % v/v 8.5 lb ai/100 gal		C C C	55.0 c	97.5 a	87.5 a	0.0 a	89.0 a	94.5 a	97.5 a
6	Capreno (3.45 SL) Roundup PowerMax 4.5 SL AMS - Liquid	0.081 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal		C C C	83.8 ab	92.5 a	65.0 b	0.0 a	95.0 a	93.3 a	98.3 a
7	Capreno (3.45 SL) Atrazine Roundup PowerMax 4.5 SL AMS - Liquid	0.081 lb ai/a 1 lb ai/a 0.77 lb ae/a 8.5 lb ai/100 gal		C C C C	91.3 a	100.0 a	96.3 a	0.0 a	97.8 a	96.0 a	100.0 a
8	Lexar (3.7 SC)	2.78 lb ai/a		A	63.3 c	100.0 a	88.8 a	0.0 a	89.0 a	49.5 b	97.5 a
9	Lexar (3.7 SC)	2.78 lb ai/a		B	92.0 a	100.0 a	100.0 a	0.0 a	31.3 b	93.8 a	100.0 a
10	SureStart (4.25 SC) Atrazine	1.6 lb ai/a 1 lb ai/a		A A	84.5 ab	99.5 a	91.3 a	0.0 a	96.0 a	70.0 a	97.0 a
11	Halex GT (4.39 SC) NIS AMS - Liquid	1.98 lb ai/a 0.25 % v/v 8.5 lb ai/100 gal		C C C	68.3 bc	99.5 a	88.0 a	0.0 a	96.0 a	92.3 a	94.5 a

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	ABUTH	IPOHE		SETFA	AMBTR	IPOHE			
Pest Scientific Name	Ambrosia trifi>	Abutilon theop>	Ipomoea heder>		Setaria faberi	Ambrosia trifi>	Ipomoea heder>			
Pest Name	Giant ragweed	Velvetleaf	Ivyleaf mornin>		Giant foxtail	Giant ragweed	Ivyleaf mornin>			
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	6-16-2011	6-16-2011	6-16-2011	7-12-2011	7-12-2011	7-12-2011	7-12-2011			
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%	%	%			
Number of Subsamples	1	1	1	1	1	1	1			
Crop Stage Majority	V5	V5	V5	V15-V16	V15-V16	V15-V16	V15-V16			
Pest Stage Majority	3-20 IN	10 IN	6-12 IN		36-48 IN	48-72 IN	12-24 IN			
Pest Density, Unit	10 YD2	11 YD2	1 YD2		50 YD2	15 YD2	2.5 YD2			
Assessed By										
Days After First/Last Applic.	35 7	35 7	35 7	61 33	61 33	61 33	61 33			
Plant-Eval Interval	35 DP-1	35 DP-1	35 DP-1	61 DP-1	61 DP-1	61 DP-1	61 DP-1			
Days After Emergence	25 DE-1	25 DE-1	25 DE-1	51 DE-1	51 DE-1	51 DE-1	51 DE-1			
Trt No.	Treatment	Rate	Appl Code	9	10	11	12	13	14	15
12	SureStart (4.25 SC)	1.06 lb ai/a	C	73.8 abc	97.5 a	77.5 ab	0.0 a	95.5 a	92.5 a	94.0 a
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C							
	AMS - Liquid	8.5 lb ai/100 gal	C							
LSD (P=.05)		14.76	4.78	16.17	0.00	14.70	17.73	6.56		
Standard Deviation		10.22	3.31	11.20	0.00	10.18	12.28	4.54		
CV		13.87	3.66	13.8	0.0	13.58	15.66	5.09		
Bartlett's X2		26.225	16.758	8.394	0.0	63.975	43.018	1.556		
P(Bartlett's X2)		0.003*	0.002*	0.495	.	0.001*	0.001*	0.98		
Replicate F		0.494	2.094	3.868	0.000	1.706	0.639	0.891		
Replicate Prob(F)		0.6892	0.1199	0.0178	1.0000	0.1848	0.5951	0.4558		
Treatment F		26.704	298.132	23.552	0.000	42.085	20.943	153.903		
Treatment Prob(F)		0.0001	0.0001	0.0001	1.0000	0.0001	0.0001	0.0001		

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 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Pest Type	W Weed				
Pest Code	ABUTH				
Pest Scientific Name	Abutilon theop>				
Pest Name	Velvetleaf				
Crop Code	ZEAMX	ZEAMX	ZEAMX		
BBCH Scale	BCOR	BCOR	BCOR		
Crop Scientific Name	Zea mays	Zea mays	Zea mays		
Crop Name	Corn	Corn	Corn		
Rating Date	7-12-2011	10-4-2011	10-4-2011		
Rating Type	CONTRO	MOICON	YIELD		
Rating Unit	%	%	bu/ac		
Number of Subsamples	1	1	1		
Crop Stage Majority	V15-V16				
Pest Stage Majority	24-36 IN				
Pest Density, Unit	1 YD2				
Assessed By					
Days After First/Last Applic.	61 33	145 117	145 117		
Plant-Eval Interval	61 DP-1	145 DP-1	145 DP-1		
Days After Emergence	51 DE-1	135 DE-1	135 DE-1		
Trt No.	Treatment	Rate	Appl		
	Name	Rate Unit	Code	16	17
1	Untreated Check			0.0 c	21.770 ab
2	Corvus (2.63 SC)	0.115 lb ai/a	A	100.0 a	20.525 b
	Atrazine	1.5 lb ai/a	A		189.43 a
3	Corvus (2.63 SC)	0.115 lb ai/a	A	100.0 a	20.938 ab
	Sharpen 2.85 SC	0.067 lb ai/a	A		174.60 a
4	Corvus (2.63 SC)	0.115 lb ai/a	B	100.0 a	20.760 ab
	Atrazine	1.5 lb ai/a	B		177.05 a
5	Capreno (3.45 SL)	0.081 lb ai/a	C	100.0 a	21.505 ab
	COC	1 % v/v	C		159.63 a
	AMS - Liquid	8.5 lb ai/100 gal	C		
6	Capreno (3.45 SL)	0.081 lb ai/a	C	98.3 a	20.813 ab
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C		151.33 a
	AMS - Liquid	8.5 lb ai/100 gal	C		
7	Capreno (3.45 SL)	0.081 lb ai/a	C	100.0 a	21.560 ab
	Atrazine	1 lb ai/a	C		190.38 a
	Roundup PowerMax 4.5 SL	0.77 lb ae/a	C		
	AMS - Liquid	8.5 lb ai/100 gal	C		
8	Lexar (3.7 SC)	2.78 lb ai/a	A	100.0 a	21.285 ab
					141.80 a
9	Lexar (3.7 SC)	2.78 lb ai/a	B	100.0 a	20.993 ab
					152.88 a
10	SureStart (4.25 SC)	1.6 lb ai/a	A	100.0 a	21.495 ab
	Atrazine	1 lb ai/a	A		182.78 a
11	Halex GT (4.39 SC)	1.98 lb ai/a	C	100.0 a	22.045 a
	NIS	0.25 % v/v	C		161.13 a
	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.



## Purdue University

Pest Type	W Weed		
Pest Code	ABUTH		
Pest Scientific Name	Abutilon theop>		
Pest Name	Velvetleaf		
Crop Code	ZEAMX	ZEAMX	ZEAMX
BBCH Scale	BCOR	BCOR	BCOR
Crop Scientific Name	Zea mays	Zea mays	Zea mays
Crop Name	Corn	Corn	Corn
Rating Date	7-12-2011	10-4-2011	10-4-2011
Rating Type	CONTRO	MOICON	YIELD
Rating Unit	%	%	bu/ac
Number of Subsamples	1	1	1
Crop Stage Majority	V15-V16		
Pest Stage Majority	24-36 IN		
Pest Density, Unit	1 YD2		
Assessed By			
Days After First/Last Applic.	61 33	145 117	145 117
Plant-Eval Interval	61 DP-1	145 DP-1	145 DP-1
Days After Emergence	51 DE-1	135 DE-1	135 DE-1
Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code	
			16 17 18
12 SureStart (4.25 SC)	1.06 lb ai/a	C	93.3 b 21.900 a 161.03 a
Roundup PowerMax 4.5 SL	0.77 lb ae/a	C	
AMS - Liquid	8.5 lb ai/100 gal	C	
LSD (P=.05)	2.44	0.7841	29.093
Standard Deviation	1.69	0.5431	20.149
CV	1.86	2.55	12.79
Bartlett's X2	0.26	12.129	14.33
P(Bartlett's X2)	0.61	0.354	0.215
Replicate F	1.037	4.503	0.967
Replicate Prob(F)	0.3890	0.0096	0.4197
Treatment F	1150.427	3.254	13.967
Treatment Prob(F)	0.0001	0.0044	0.0001

## Purdue University

### Corvus, Balance Flexx, Capreno, Laudis One Pass Weed Management Programs for Corn

Trial ID: 11S-THP-CTC-12

Protocol ID: 11S-THP-CTC-112

Location: Throckmorton  
Project ID: HP11NARBLIStudy 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

AMBTR, Ambrosia trifida, = US

SETFA, Setaria faberi, = US

ABUTH, Abutilon theophrasti, = US

IPOHE, Ipomoea hederacea, = US

#### Crop Code

ZEAMX, BCOR, Zea mays, = US

#### Rating Type

PHYGEN = phytotoxicity - general / injury

CONTRO = control / burndown or knockdown

MOICON = moisture content

YIELD = yield

#### Rating Unit

% = percent

bu/ac = bushels per acre

YD2 = per square yard

#### Plant-Eval Interval

20 DP-1 = 1 ZEAMD 5-12-2011

28 DP-1 = 1 ZEAMD 5-12-2011

35 DP-1 = 1 ZEAMD 5-12-2011

61 DP-1 = 1 ZEAMD 5-12-2011

145 DP-1 = 1 ZEAMD 5-12-2011