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Corvus, Balance Flexx, Capreno, Laudis, Ignite, Two Pass system in Corn

Trial ID: 11S-SEP-NTC-07 Protocol ID: 11S-SEP-NTC-07
Location: SEPAC Study Director: Paul Marquardt
Project ID: 11S-SEP-NTC-07 Investigator: Dr. Bill Johnson
Sponsor Contact: Dave Lamore

General Trial Information

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

Discipline: H herbicide
Trial Status: E established
Initiation Date: 3-25-2011

Trial Location

City: Butlerville
State/Prov.: IN
Postal Code: 47223
Country: USA

Objectives:
HP11NARBLJ

Personnel

Study Director: Paul Marquardt **Title:** Research Associate
Affiliation: Purdue University
Address: 915 W. State Street
Location: West Lafayette, IN
Postal Code: 47907 **E-mail:** pmarquar@purdue.edu
Phone No.: 765-494-0891 **Mobile No.:** 765-409-6369
Investigator: Dr. Bill Johnson **Title:** Professor
Affiliation: Purdue University
Address: 915 W. State Street
Location: West Lafayette, IN
Postal Code: 47907 **E-mail:** wgj@purdue.edu
Phone No.: 765-494-4656 **Mobile No.:** 765-404-9801

Cooperator/Landowner

Cooperator: Don Biehle **Role:** Director
Organization: Southeast Purdue Agricultural Center **Org. Type:** University
Address 1: 4425 E. CR 350 N
Phone No.: 812-458-6977
City: Butlerville **Fax No.:** 812-458-6979
State/Prov: IN **Mobile No.:** 812-592-8426
Postal Code: 47223 **E-mail:** biehled@purdue.edu
Country: USA United States

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Crop Description

Crop 1: ZEAMX Zea mays Corn
Variety: Pioneer 33W84 **Description:** Roundup Ready/Liberty Link
BBCH Scale: BCOR **Planting Date:** 6-3-2011
Planting Method: DIRDRI direct drilled **Rate, Unit:** 32000 S/A
Depth, Unit: 2 IN
Row Spacing, Unit: 30 IN **Spacing Within Row, Unit:** 6 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 75 F
Soil Moisture: MOIST **Emergence Date:** 6-8-2011
Harvest Date: 10-26-2011 **Harvest Equipment:** John Deere 3300
Harvested Width, Unit: 7.5 FT **Harvested Length, Unit:** 25 FT
Moisture Meter: CART 3" BLADE
Weighing Equipment: Harvestmaster

Pest Description

Pest 1 Type: W **Code:** XANST Xanthium strumarium
Common Name: Common cocklebur

Pest 2 Type: W **Code:** PLAVI Plantago virginica
Common Name: Paleseed plantain

Pest 3 Type: W **Code:** AMBEL Ambrosia artemisiifolia
Common Name: Common ragweed

Pest 4 Type: W **Code:** ERICA Conyza canadensis
Common Name: Canada horseweed

Pest 5 Type: W **Code:** ERIPH Erigeron philadelphicus
Common Name: Daisy fleabane

Pest 6 Type: W **Code:** ALLVI Allium vineale
Common Name: Wild garlic

Pest 7 Type: W **Code:** POAAN Poa annua
Common Name: Annual bluegrass

Pest 8 Type: W **Code:** TAROF Taraxacum officinale
Common Name: Common dandelion

Pest 9 Type: W **Code:** ECHCG Echinochloa crus-galli
Common Name: Common barnyardgrass

Pest10 Type: W **Code:** SETFA Setaria faberi
Common Name: Giant foxtail

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:** NOTILL no-till
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)
Untreated Arrangement: INCLUDED single control randomized in each block

Soil Description

Description Name: SEPAC-Field U4
% OM: 1.8 **Texture:** SIL silt loam
pH: 5.6 **Soil Name:** Avonburg
CEC: 6.7 **Fert. Level:** G good
Soil Drainage: P poor

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Application Description

	A	B
Application Date:	6-3-2011	6-24-2011
Time of Day:	10 AM	9 AM
Application Method:	SPRAY	SPRAY
Application Timing:	ATPLAN	MIPOCR
Application Placement:	FOLIAR	FOLIAR
Applied By:	RT	RT
Air Temperature, Unit:	75 F	66 F
% Relative Humidity:	62	65
Wind Velocity, Unit:	4 MPH	4.5 MPH
Wind Direction:	SE	W
Dew Presence (Y/N):	N no	Y yes
Soil Temperature, Unit:	75 F	
Soil Moisture:	MOIST	WET
% Cloud Cover:	90	100

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMX BCOR	ZEAMX BCOR
Stage Scale Used:	BBCH	BBCH
Stage Majority, Percent:	00 100	34 90
Stage Minimum, Percent:		33 10
Stage Maximum, Percent:		34 90
Height, Unit:		10 IN
Height Minimum, Maximum:		8 12

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	XANST W	XANST W
Stage Majority, Percent:	31 100	34 100
Height, Unit:	2 IN	7 IN
Height Minimum, Maximum:	1 3	2 12
Density, Unit:	15 YD2	7.5 YD2
Pest 2 Code, Type, Scale:	PLAVI W	PLAVI W
Stage Majority, Percent:	65 100	
Height, Unit:	3.5 IN	
Height Minimum, Maximum:	1 6	
Density, Unit:	2.5 YD2	
Pest 3 Code, Type, Scale:	AMBEL W	AMBEL W
Stage Majority, Percent:	32 100	34 100
Height, Unit:	7 IN	12 IN
Height Minimum, Maximum:	4 10	6 18

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Density, Unit:	2 YD2	4 YD2
Pest 4 Code, Type, Scale:	ERICA W	ERICA W
Stage Majority, Percent:	33 100	33 100
Height, Unit:	3.5 IN	3.5 IN
Height Minimum, Maximum:	1 6	1 6
Density, Unit:	42.5 YD2	55 YD2
Pest 5 Code, Type, Scale:	ERIPH W	ERIPH W
Stage Majority, Percent:	12 100	
Height, Unit:	3 IN	
Height Minimum, Maximum:	1 5	
Density, Unit:	5 YD2	
Pest 6 Code, Type, Scale:	ALLVI W	ALLVI W
Stage Majority, Percent:	65 100	
Height, Unit:	27 IN	
Height Minimum, Maximum:	18 36	
Density, Unit:	5 YD2	
Pest 7 Code, Type, Scale:	POAAN W	POAAN W
Stage Majority, Percent:	67 100	
Height, Unit:	4 IN	
Height Minimum, Maximum:	2 6	
Density, Unit:	25 YD2	
Pest 8 Code, Type, Scale:	TAROF W	TAROF W
Stage Majority, Percent:	67 100	
Height, Unit:	6 IN	
Height Minimum, Maximum:	2 10	
Density, Unit:	1 YD2	
Pest 9 Code, Type, Scale:	ECHCG W	ECHCG W
Stage Majority, Percent:	12 100	
Height, Unit:	4 IN	
Height Minimum, Maximum:	2 6	
Density, Unit:	2.5 YD2	
Pest10 Code, Type, Scale:	SETFA W	SETFA W
Stage Majority, Percent:	12 100	13 100
Height, Unit:	4 IN	10.5 IN
Height Minimum, Maximum:	2 6	3 18
Density, Unit:	2.5 YD2	55 YD2

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Application Equipment

	A	B
Appl. Equipment:	CO2 Backpack	CO2 Backpack
Equipment Type:	SPRBAC	SPRBAC
Operation Pressure, Unit:	17 PSI	17 PSI
Nozzle Type:	Flat Fan	Flat Fan
Nozzle Size:	XR11002	XR11002
Nozzle Spacing, Unit:	15 IN	15 IN
Nozzles/Row:	8	8
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	18 IN	18 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	H2O	H2O
Water Hardness (ppm CaCO3):	150	150
Spray Volume, Unit:	15 GAL/AC	15 GAL/AC
Mix Size, Unit:	1.8 Liters	1.8 Liters
Propellant:	CO2	CO2
Tank Mix (Y/N):	N no	N no

Trt No	Treatment Application Comment
11	MIPOCR application timing. Treatment was sprayed on plot 901 instead of 801.

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Corvus, Balance Flexx, Capreno, Laudis, Ignite, Two Pass system in Corn

Trial ID: 11S-SEP-NTC-07 Protocol ID: 11S-SEP-NTC-07
Location: SEPAC Study Director: Paul Marquardt
Project ID: 11S-SEP-NTC-07 Investigator: Dr. Bill Johnson
Sponsor Contact: Dave Lamore

Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code				AMBEL	XANST	ERICA	SETFA	AMBEL	XANST
Pest Scientific Name				Ambrosia artem>	Xanthium strum>	Conyza canaden>	Setaria faberi	Ambrosia artem>	Xanthium strum>
Pest Name				Common ragweed	Common cockleb>	Canada horsewe>	Giant foxtail	Common ragweed	Common cockleb>
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
Crop Variety				P33W84	P33W84	P33W84	P33W84	P33W84	P33W84
Description				18-24 IN	18-24 IN	18-24 IN	18-24 IN	6 FT	6 FT
Rating Date				7-7-2011	7-7-2011	7-7-2011	7-7-2011	7-21-2011	7-21-2011
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%	%	%	%
Number of Subsamples				1	1	1	1	1	1
Crop Stage Majority				V6	V6	V6	V6	V14	V14
Pest Stage Majority				15 IN	6 IN	6 IN	18 IN	2-4 FT	2-3 FT
Pest Density, Unit				3.5 YD2	5 YD2	8 YD2	50 YD2	12 YD2	10 YD2
Assessed By				JR	JR	JR	JR	JR	JR
Days After First/Last Applic.				34 13	34 13	34 13	34 13	48 27	48 27
Plant-Eval Interval				34 DP-1	34 DP-1	34 DP-1	34 DP-1	48 DP-1	48 DP-1
Days After Emergence				29 DE-	29 DE-	29 DE-	29 DE-	43 DE-	43 DE-
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2	3	4	5	6
1	UNTREATED				0.0 b	0.0 b	0.0 b	0.0 c	0.0 b	0.0 b
2	Corvus	69	g ai/ha	A	100.0 a	93.8 a	100.0 a	91.5 b	100.0 a	90.0 a
	AAtrex	1120	g ai/ha	A						
	COC	1	% v/v	A						
	Laudis	92	g ai/ha	B						
	AAtrex	1120	g ai/ha	B						
	MSO	1	% v/v	B						
	N-Pak AMS	5	% v/v	B						
3	Corvus	69	g ai/ha	A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a	91.3 a
	AAtrex	1120	g ai/ha	A						
	COC	1	% v/v	A						
	Laudis	92	g ai/ha	B						
	Roundup PowerMAX	870	g ae/ha	B						
	N-Pak AMS	5	% v/v	B						
4	Corvus	69	g ai/ha	A	100.0 a	100.0 a	100.0 a	100.0 a	100.0 a	85.0 a
	AAtrex	1120	g ai/ha	A						
	COC	1	% v/v	A						
	Ignite	450	g ai/ha	B						
	Laudis	92	g ai/ha	B						
	N-Pak AMS	5	% v/v	B						

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				AMBEL	XANST	ERICA	SETFA	AMBEL	XANST
Pest Scientific Name				Ambrosia artem>	Xanthium strum>	Conyza canaden>	Setaria faberi	Ambrosia artem>	Xanthium strum>
Pest Name				Common ragweed	Common cockleb>	Canada horsewe>	Giant foxtail	Common ragweed	Common cockleb>
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
Crop Variety				P33W84	P33W84	P33W84	P33W84	P33W84	P33W84
Description				18-24 IN	18-24 IN	18-24 IN	18-24 IN	6 FT	6 FT
Rating Date				7-7-2011	7-7-2011	7-7-2011	7-7-2011	7-21-2011	7-21-2011
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%	%	%	%
Number of Subsamples				1	1	1	1	1	1
Crop Stage Majority				V6	V6	V6	V6	V14	V14
Pest Stage Majority				15 IN	6 IN	6 IN	18 IN	2-4 FT	2-3 FT
Pest Density, Unit				3.5 YD2	5 YD2	8 YD2	50 YD2	12 YD2	10 YD2
Assessed By				JR	JR	JR	JR	JR	JR
Days After First/Last Applic.				34 13	34 13	34 13	34 13	48 27	48 27
Plant-Eval Interval				34 DP-1	34 DP-1	34 DP-1	34 DP-1	48 DP-1	48 DP-1
Days After Emergence				29 DE-	29 DE-	29 DE-	29 DE-	43 DE-	43 DE-
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	1	2	3	4	5	6
5	Corvus	69 g ai/ha	A	100.0 a	100.0 a	100.0 a	93.5 ab	100.0 a	97.0 a
	AAtrex	1120 g ai/ha	A						
	COC	1 % v/v	A						
	Capreno	91 g ai/ha	B						
	COC	1 % v/v	B						
	N-Pak AMS	5 % v/v	B						
6	Balance Flexx	70 g ai/ha	A	100.0 a	97.0 a	100.0 a	100.0 a	100.0 a	92.5 a
	AAtrex	1120 g ai/ha	A						
	COC	1 % v/v	A						
	Laudis	92 g ai/ha	B						
	Roundup PowerMAX	870 g ae/ha	B						
	N-Pak AMS	5 % v/v	B						
7	Balance Flexx	70 g ai/ha	A	100.0 a	98.0 a	100.0 a	97.5 ab	100.0 a	95.8 a
	AAtrex	1120 g ai/ha	A						
	COC	1 % v/v	A						
	Ignite	450 g ai/ha	B						
	Laudis	92 g ai/ha	B						
	N-Pak AMS	5 % v/v	B						
8	Balance Flexx	70 g ai/ha	A	100.0 a	92.5 a	100.0 a	97.5 ab	100.0 a	80.0 a
	AAtrex	1120 g ai/ha	A						
	COC	1 % v/v	A						
	Capreno	91 g ai/ha	B						
	COC	1 % v/v	B						
	N-Pak AMS	5 % v/v	B						
9	Lexar	1560 g ai/ha	A	99.5 a	95.0 a	80.0 a	98.0 ab	100.0 a	86.8 a
	COC	1 % v/v	A						
	Touchdown Total	880 g ae/ha	B						
	N-Pak AMS	5 % v/v	B						

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Pest Type				W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code				AMBEL	XANST	ERICA	SETFA	AMBEL	XANST
Pest Scientific Name				Ambrosia artem>	Xanthium strum>	Conyza canaden>	Setaria faberi	Ambrosia artem>	Xanthium strum>
Pest Name				Common ragweed	Common cockleb>	Canada horsewe>	Giant foxtail	Common ragweed	Common cockleb>
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
Crop Variety				P33W84	P33W84	P33W84	P33W84	P33W84	P33W84
Description				18-24 IN	18-24 IN	18-24 IN	18-24 IN	6 FT	6 FT
Rating Date				7-7-2011	7-7-2011	7-7-2011	7-7-2011	7-21-2011	7-21-2011
Rating Type				CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit				%	%	%	%	%	%
Number of Subsamples				1	1	1	1	1	1
Crop Stage Majority				V6	V6	V6	V6	V14	V14
Pest Stage Majority				15 IN	6 IN	6 IN	18 IN	2-4 FT	2-3 FT
Pest Density, Unit				3.5 YD2	5 YD2	8 YD2	50 YD2	12 YD2	10 YD2
Assessed By				JR	JR	JR	JR	JR	JR
Days After First/Last Applic.				34 13	34 13	34 13	34 13	48 27	48 27
Plant-Eval Interval				34 DP-1	34 DP-1	34 DP-1	34 DP-1	48 DP-1	48 DP-1
Days After Emergence				29 DE-	29 DE-	29 DE-	29 DE-	43 DE-	43 DE-
ARM Action Codes									
Number of Decimals									
Trt No.	Treatment Name	Rate Rate	Unit	Appl Code	1	2	3	4	5	6
10	Lexar	1560	g ai/ha	A	100.0 a	96.8 a	100.0 a	98.8 a	100.0 a	95.8 a
	COC	1	% v/v	A						
	Halex GT	2210	g ai/ha	B						
	NIS	0.25	% v/v	B						
	N-Pak AMS	5	% v/v	B						
11	Verdict	730	g ai/ha	A	100.0 a	98.8 a	100.0 a	100.0 a	98.8 a	91.3 a
	COC	1	% v/v	A						
	Status	196	g ai/ha	B						
	Roundup PowerMAX	870	g ae/ha	B						
	N-Pak AMS	5	% v/v	B						
12	Surestart	1190	g ai/ha	A	98.0 a	100.0 a	95.0 a	98.0 ab	100.0 a	93.5 a
	COC	1	% v/v	A						
	Durango DMA	840	g ai/ha	B						
	N-Pak AMS	5	% v/v	B						
LSD (P=.05)					1.73	7.75	17.31	4.63	1.04	16.83
Standard Deviation					1.20	5.36	11.99	3.20	0.72	11.66
CV					1.31	6.01	13.38	3.58	0.79	14.01
Bartlett's X2					4.461	12.274	4.461	2.455	0.0	29.37
P(Bartlett's X2)					0.035*	0.056	0.035*	0.873	.	0.001*
Replicate F					0.831	2.013	0.831	0.391	1.000	6.387
Replicate Prob(F)					0.4863	0.1313	0.4863	0.7600	0.4051	0.0016
Treatment F					2310.259	110.895	23.088	312.578	6386.455	20.933
Treatment Prob(F)					0.0001	0.0001	0.0001	0.0001	0.0001	0.0001

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Pest Type				W Weed	W Weed			
Pest Code				ERICA	SETFA			
Pest Scientific Name				Conyza canaden>	Setaria faberi			
Pest Name				Canada horsewe>	Giant foxtail			
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
Crop Variety				P33W84	P33W84	P33W84	P33W84	P33W84
Description				6 FT	6 FT			
Rating Date				7-21-2011	7-21-2011	10-26-2011	10-26-2011	10-26-2011
Rating Type				CONTRO	CONTRO	YIELD	MOISTURE	YIELD
Rating Unit				%	%	LB	%	BU
Number of Subsamples				1	1	1	1	1
Crop Stage Majority				V14	V14			
Pest Stage Majority				3 FT	3-4 FT			
Pest Density, Unit				18 YD2	75 YD2			
Assessed By				JR	JR	LB		LB
Days After First/Last Applic.				48 27	48 27	145 124	145 124	145 124
Plant-Eval Interval				48 DP-1	48 DP-1	145 DP-1	145 DP-1	145 DP-1
Days After Emergence				43 DE-	43 DE-	140 DE	140 DE	140 DE
ARM Action Codes								TY1
Number of Decimals								1
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8	9	10	11
1	UNTREATED				0.0 b	0.0 b	5.4676300 b	19.01 a	21.7 b
2	Corvus	69	g ai/ha	A	100.0 a	80.0 a	25.5975024 a	17.53 a	103.9 a
	AAtrex	1120	g ai/ha	A					
	COC	1	% v/v	A					
	Laudis	92	g ai/ha	B					
	AAtrex	1120	g ai/ha	B					
	MSO	1	% v/v	B					
	N-Pak AMS	5	% v/v	B					
3	Corvus	69	g ai/ha	A	100.0 a	95.8 a	29.2000037 a	17.88 a	117.8 a
	AAtrex	1120	g ai/ha	A					
	COC	1	% v/v	A					
	Laudis	92	g ai/ha	B					
	Roundup PowerMAX	870	g ae/ha	B					
	N-Pak AMS	5	% v/v	B					
4	Corvus	69	g ai/ha	A	100.0 a	96.5 a	32.6850046 a	18.75 a	129.6 a
	AAtrex	1120	g ai/ha	A					
	COC	1	% v/v	A					
	Ignite	450	g ai/ha	B					
	Laudis	92	g ai/ha	B					
	N-Pak AMS	5	% v/v	B					

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Pest Type				W Weed	W Weed			
Pest Code				ERICA	SETFA			
Pest Scientific Name				Conyza canaden>	Setaria faberi			
Pest Name				Canada horsewe>	Giant foxtail			
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
Crop Variety				P33W84	P33W84	P33W84	P33W84	P33W84
Description				6 FT	6 FT			
Rating Date				7-21-2011	7-21-2011	10-26-2011	10-26-2011	10-26-2011
Rating Type				CONTRO	CONTRO	YIELD	MOISTURE	YIELD
Rating Unit				%	%	LB	%	BU
Number of Subsamples				1	1	1	1	1
Crop Stage Majority				V14	V14			
Pest Stage Majority				3 FT	3-4 FT			
Pest Density, Unit				18 YD2	75 YD2			
Assessed By				JR	JR	LB		LB
Days After First/Last Applic.				48 27	48 27	145 124	145 124	145 124
Plant-Eval Interval				48 DP-1	48 DP-1	145 DP-1	145 DP-1	145 DP-1
Days After Emergence				43 DE-	43 DE-	140 DE	140 DE	140 DE
ARM Action Codes								TY1
Number of Decimals								1
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	7	8	9	10	11
5	Corvus	69	g ai/ha	A	100.0 a	89.5 a	43.1825033 a	18.23 a	173.1 a
	AAtrex	1120	g ai/ha	A					
	COC	1	% v/v	A					
	Capreno	91	g ai/ha	B					
	COC	1	% v/v	B					
	N-Pak AMS	5	% v/v	B					
6	Balance Flexx	70	g ai/ha	A	100.0 a	96.3 a	37.8237419 a	17.51 a	153.0 a
	AAtrex	1120	g ai/ha	A					
	COC	1	% v/v	A					
	Laudis	92	g ai/ha	B					
	Roundup PowerMAX	870	g ae/ha	B					
	N-Pak AMS	5	% v/v	B					
7	Balance Flexx	70	g ai/ha	A	100.0 a	93.5 a	33.6050029 a	18.38 a	134.7 a
	AAtrex	1120	g ai/ha	A					
	COC	1	% v/v	A					
	Ignite	450	g ai/ha	B					
	Laudis	92	g ai/ha	B					
	N-Pak AMS	5	% v/v	B					
8	Balance Flexx	70	g ai/ha	A	100.0 a	92.5 a	31.3192952 a	18.89 a	124.7 a
	AAtrex	1120	g ai/ha	A					
	COC	1	% v/v	A					
	Capreno	91	g ai/ha	B					
	COC	1	% v/v	B					
	N-Pak AMS	5	% v/v	B					
9	Lexar	1560	g ai/ha	A	100.0 a	96.5 a	37.7300033 a	20.13 a	148.1 a
	COC	1	% v/v	A					
	Touchdown Total	880	g ae/ha	B					
	N-Pak AMS	5	% v/v	B					

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	W Weed			
Pest Code			ERICA	SETFA			
Pest Scientific Name			Conyza canaden>	Setaria faberi			
Pest Name			Canada horsewe>	Giant foxtail			
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
Crop Variety			P33W84	P33W84	P33W84	P33W84	P33W84
Description			6 FT	6 FT			
Rating Date			7-21-2011	7-21-2011	10-26-2011	10-26-2011	10-26-2011
Rating Type			CONTRO	CONTRO	YIELD	MOISTURE	YIELD
Rating Unit			%	%	LB	%	BU
Number of Subsamples			1	1	1	1	1
Crop Stage Majority			V14	V14			
Pest Stage Majority			3 FT	3-4 FT			
Pest Density, Unit			18 YD2	75 YD2			
Assessed By			JR	JR	LB		LB
Days After First/Last Applic.			48 27	48 27	145 124	145 124	145 124
Plant-Eval Interval			48 DP-1	48 DP-1	145 DP-1	145 DP-1	145 DP-1
Days After Emergence			43 DE-	43 DE-	140 DE	140 DE	140 DE
ARM Action Codes							TY1
Number of Decimals							1
Trt No.	Treatment Name	Rate Rate Unit	Appl Code	7	8	9	10	11
10	Lexar	1560 g ai/ha	A	100.0 a	95.3 a	22.1075023 a	19.93 a	87.0 a
	COC	1 % v/v	A					
	Halex GT	2210 g ai/ha	B					
	NIS	0.25 % v/v	B					
	N-Pak AMS	5 % v/v	B					
11	Verdict	730 g ai/ha	A	98.8 a	71.3 a	32.6060328 a	19.79 a	128.6 a
	COC	1 % v/v	A					
	Status	196 g ai/ha	B					
	Roundup PowerMAX	870 g ae/ha	B					
	N-Pak AMS	5 % v/v	B					
12	Surestart	1190 g ai/ha	A	90.0 a	93.5 a	31.9800027 a	20.30 a	125.9 a
	COC	1 % v/v	A					
	Durango DMA	840 g ai/ha	B					
	N-Pak AMS	5 % v/v	B					
LSD (P=.05)				6.12	21.83	14.15977238	2.174	56.73
Standard Deviation				4.24	15.12	9.79214766	1.503	39.23
CV				4.67	18.14	32.34	7.97	32.51
Bartlett's X2				6.335	55.293	19.088	12.985	17.424
P(Bartlett's X2)				0.012*	0.001*	0.06	0.294	0.096
Replicate F				0.801	1.285	5.408	0.120	5.365
Replicate Prob(F)				0.5024	0.2956	0.0044	0.9476	0.0046
Treatment F				183.389	13.105	3.833	1.758	3.813
Treatment Prob(F)				0.0001	0.0001	0.0018	0.1096	0.0019

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 Flexx, Capreno, Laudis, Ignite, Two Pass system in Corn

Trial ID: 11S-SEP-NTC-07 Protocol ID: 11S-SEP-NTC-07
Location: SEPAC Study Director: Paul Marquardt
Project ID: 11S-SEP-NTC-07 Investigator: Dr. Bill Johnson
Sponsor Contact: Dave Lamore

Pest Type
W, Weed, G-BYRW7, G-WedStg = Weed or volunteer crop
Pest Code
AMBEL, Ambrosia artemisiifolia, = US
XANST, Xanthium strumarium, = US
ERICA, Conyza canadensis, = US
SETFA, Setaria faberi, = US
Crop Code
ZEAMX, BCOR, Zea mays, = US
Rating Type
CONTRO = control / burndown or knockdown
YIELD = yield
Rating Unit
% = percent
LB = pound
BU = bushel

YD2 = per square yard
Plant-Eval Interval
34 DP-1 = 1 ZEAMX 6-3-2011
48 DP-1 = 1 ZEAMX 6-3-2011
145 DP-1 = 1 ZEAMX 6-3-2011
ARM Action Codes
TY1 = 4.148571*[9]*(100-[10])/84.5