

Instigate Programs in Corn.

Trial ID: 13-2C-MW60 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Status: F one-year/final Initiation Date: 6-15-13 Completion Date: 8-13-13		Trial Location
City: Belleville State/Prov.: Illinois IL Postal Code: 62221	Country: USA	

Objectives:
Evaluate weed control and crop response with Instigate programs.

Study Director: Bryan Young Organization: Southern Illinois University Address: 1205 Lincoln Drive - AG 176 - MC 4415 City+State/Prov: Carbondale IL Postal Code: 62901 Country: USA		Title: Professor Phone No.: 618-453-7679 Mobile No.: 618-713-6471 E-mail: bgyoung@siu.edu
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Crop 1: ZEAMD Zea mays indentata Dent corn Variety: DKC 63-33 Description: SS RIB	Crop Description
Planting Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN Row Spacing, Unit: 30 IN	Planting Date: 6-15-13 Planting Method: SEEDED

Pest 1 Type: W Code: PANDI <i>Panicum dichotomiflorum</i> Michx. Common Name: panicum, fall	Pest Description
Pest 2 Type: W Code: XANST <i>Xanthium strumarium</i> L. Common Name: cocklebur, common	
Pest 3 Type: W Code: AMBTR <i>Ambrosia trifida</i> L. Common Name: ragweed, giant	
Pest 4 Type: W Code: IPOHE <i>Ipomoea hederacea</i> (L.) Jacq. Common Name: morningglory, ivyleaf	

Treated Plot Width: 7.5 FT Total Plot Width: 10 FT Treated Plot Length: 28 FT Total Plot Length: 28 FT	Site and Design Site Type: FIELD Experimental Unit: 1 PLOT Tillage Type: REDTIL reduced-till Study Design: RACOB L Randomized Complete Block (RCB)						
Replications: 3 Untreated Arrangement: INCLUDED single control randomized in each block							
<table border="1"> <thead> <tr> <th>No.</th> <th>Previous Crop</th> <th>Year</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>NON-CROP</td> <td>2012</td> </tr> </tbody> </table>		No.	Previous Crop	Year	1.	NON-CROP	2012
No.	Previous Crop	Year					
1.	NON-CROP	2012					

Maintenance					
<table border="1"> <thead> <tr> <th>No.</th> <th>Maintenance Product Name</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>N 150 LB/A, P2O5 50 LB/A, K2O 100 LB/A</td> </tr> </tbody> </table>	No.	Maintenance Product Name	1.	N 150 LB/A, P2O5 50 LB/A, K2O 100 LB/A	
No.	Maintenance Product Name				
1.	N 150 LB/A, P2O5 50 LB/A, K2O 100 LB/A				

% OM: 2.7 Texture: SIL silt loam pH: 6.1 Soil Name: Pierron CEC: 7	Soil Description									
Additional Measured Elements										
<table border="1"> <thead> <tr> <th>Element</th> <th>Quantity</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>P1</td> <td>68</td> <td>lb/A</td> </tr> <tr> <td>K</td> <td>322</td> <td>lb/A</td> </tr> </tbody> </table>		Element	Quantity	Unit	P1	68	lb/A	K	322	lb/A
Element	Quantity	Unit								
P1	68	lb/A								
K	322	lb/A								

Overall Moisture Conditions: ABONOR Closest Weather Station: ICN - Belleville IL	Moisture and Weather Conditions Distance, Unit: 0.5 MI
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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	6-2-13					7	DAY	50	80	F
2.	6-9-13					7	DAY	59	94	F
3.	6-10-13	0.48	IN	RAIN	rain	2	DAY			
4.	6-16-13					7	DAY	61	90	F
5.	6-17-13	2.16	IN	RAIN	rain	3	DAY			
6.	6-23-13					7	DAY	64	92	F
7.	6-23-13	5.33	IN	RAIN	rain	2	DAY			
8.	6-26-13	0.46	IN	RAIN	rain	1	DAY			
9.	6-29-13	0.19	IN	RAIN	rain	2	DAY			
10.	6-30-13					7	DAY	61	86	F
11.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
12.	7-7-13					7	DAY	62	94	F
13.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
14.	7-14-13					7	DAY	64	94	F
15.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
16.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
17.	7-21-13					7	DAY	56	91	F
18.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
19.	7-28-13					7	DAY	52	87	F
20.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
21.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
22.	8-4-13					7	DAY	62	87	F
23.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
24.	8-11-13					7	DAY	54	85	F
25.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
26.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
27.	8-18-13					7	DAY	61	91	F

Application Description

	A	B
Application Date:	6-15-13	7-15-13
Appl. Start Time:	16:50	7:30
Appl. Stop Time:	17:30	8:00
Application Method:	Spray	Spray
Application Timing:	PRE	POST
Application Placement:	BROSOI	BROFOL
Applied By:	LXF	RJW
Air Temperature, Unit:	84 F	80 F
% Relative Humidity:	61	85
Wind Velocity, Unit:	5 MPH	4 MPH
Wind Direction:	S	E
Dew Presence (Y/N):	N	N
Soil Temperature, Unit:	73 F	79 F
Soil Moisture:	NORMAL	NORMAL
% Cloud Cover:	70	20
Next Moisture Occurred On:	6-15-13	7-15-13
Time to Next Moisture, Unit:	4 HR	9 HR

Crop Stage At Each Application

	A	B
Crop 1 Code, BBCH Scale:	ZEAMD	ZEAMD
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	NA	V7
Stage Minimum, Percent:		V6
Stage Maximum, Percent:		V7
Height, Unit:		22 IN
Height Minimum, Maximum:		18 22

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Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	PANDI W	PANDI W
Stage Majority, Percent:	NA	6
Stage Minimum, Percent:		3
Stage Maximum, Percent:		8
Height, Unit:		5 IN
Height Minimum, Maximum:		3 12
Density, Unit:		0.01 FT2
Pest 2 Code, Type, Scale:	XANST W	XANST W
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		4
Stage Maximum, Percent:		6
Height, Unit:		1 IN
Height Minimum, Maximum:		1 2
Density, Unit:		0.001 FT2
Pest 3 Code, Type, Scale:	AMBTR W	AMBTR W
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		4
Stage Maximum, Percent:		6
Height, Unit:		2 IN
Height Minimum, Maximum:		2 4
Density, Unit:		0.001 FT2
Pest 4 Code, Type, Scale:	IPOHE W	IPOHE W
Stage Majority, Percent:	NA	4
Stage Minimum, Percent:		2
Stage Maximum, Percent:		6
Height, Unit:		2.5 IN
Height Minimum, Maximum:		1 3
Density, Unit:		0.01 FT2

Application Equipment

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Equipment Type:	BACSPR	BACSPR
Operation Pressure, Unit:	30 PSI	30 PSI
Nozzle Type:	XR	XR
Nozzle Size:	8002	8002
Boom Length, Unit:	7.5 FT	7.5 FT
Spray Volume, Unit:	15 GPA	15 GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval										ZEAMD 6-29-13 Injury Percent 14 DAP 14 DA-A	ZEAMD 7-13-13 Injury Percent 28 DAP -2 DA-B	ZEAMD 8-13-13 Injury Percent 29 DA-B	PANDI 6-29-13 Control Percent 14 DAP 14 DA-A	PANDI 7-13-13 Control Percent 28 DAP -2 DA-B	PANDI 8-13-13 Control Percent 29 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code						
1	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	0 a	0 a	0 a	99 a	99 a	98 abc
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		PRE	A						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
2	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	0 a	0 a	0 a	99 a	98 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		PRE	A						
	REALM Q	38.75	WG	0.097	lb ai/a	4 oz/a		POST	B						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
3	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	0 a	0 a	0 a	99 a	99 a	99 ab
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
4	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	0 a	0 a	0 a	99 a	99 a	99 a
	CINCH ATZ	5.5	SC	2.75	lb ai/a	4 pt/a		PRE	A						
5	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	0 a	0 a	0 a	99 a	99 a	99 a
	BREKFREE ATZ	5.25	SC	1.97	lb ai/a	3 pt/a		PRE	A						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
6	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	0 a	0 a	0 a	99 a	99 a	97 bc
	BREKFREE ATZ	5.25	SC	2.63	lb ai/a	4 pt/a		PRE	A						
7	INSTIGATE	45.84	WG	0.15	lb ai/a	5.25 oz/a		PRE	A	0 a	0 a	0 a	99 a	99 a	99 ab
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
8	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	0 a	0 a	0 a	99 a	98 a	99 a
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		PRE	A						
	SIMAZINE 4L	4	SC		1.5 lb ai/a	1.5 qt/a		PRE	A						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
9	PREQUEL	45	WG	0.0467	lb ai/a	1.66 oz/a		PRE	A	0 a	0 a	0 a	99 a	98 a	98 ab
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
10	REALM Q	38.75	WG	0.097	lb ai/a	4 oz/a		POST	B			0 a			96 c
	AATREX 4L	4	SC		1 lb ai/a	1 qt/a		POST	B						
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
11	LUMAX	3.948	SE	2.96	lb ai/a	3 qt/a		PRE	A	0 a	0 a	0 a	99 a	98 a	99 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B						
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B						
12	NONTREATED									0	0	0 a	0	0 b	0 d
LSD (P=.05)										0.0	0.0	0.0	0.0	1.2	2.0
Standard Deviation										0.0	0.0	0.0	0.0	0.7	1.2
CV										0.0	0.0	0.0	0.0	0.78	1.29
Replicate F										0.000	0.000	0.000	0.000	3.016	1.079
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	0.0757	0.3600
Treatment F										0.000	0.000	0.000	0.000	5471.210	1803.480
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	0.0001	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)

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

Missing data estimates are included in columns: Average=5,10,15,6,11,16,7,12,17,8,13,18,9,14,19

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Pest Code	Crop Code	Rating Date	Rating Type	Rating Unit	Rating Timing	Trt-Eval Interval	XANST	XANST	XANST	AMBTR	AMBTR	AMBTR
							6-29-13 Control Percent 14 DAP 14 DA-A	7-13-13 Control Percent 28 DAP -2 DA-B	8-13-13 Control Percent 29 DA-B	6-29-13 Control Percent 14 DAP 14 DA-A	7-13-13 Control Percent 28 DAP -2 DA-B	8-13-13 Control Percent 29 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code			
1	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1 qt/a		PRE	A			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
2	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1 qt/a		PRE	A			
	REALM Q	38.75	WG	0.097	lb ai/a	4 oz/a		POST	B			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
3	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	98 b	99 a	99 a
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
4	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	99 a	99 a	99 a
	CINCH ATZ	5.5	SC	2.75	lb ai/a	4 pt/a		PRE	A			
5	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	99 a	99 a	99 a
	BREKFREE ATZ	5.25	SC	1.97	lb ai/a	3 pt/a		PRE	A			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
6	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	99 a	99 a	99 a
	BREKFREE ATZ	5.25	SC	2.63	lb ai/a	4 pt/a		PRE	A			
7	INSTIGATE	45.84	WG	0.15	lb ai/a	5.25 oz/a		PRE	A	99 a	99 a	99 a
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
8	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A	99 a	99 a	99 a
	AATREX 4L	4	SC	1	lb ai/a	1 qt/a		PRE	A			
	SIMAZINE 4L	4	SC	1.5	lb ai/a	1.5 qt/a		PRE	A			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
9	PREQUEL	45	WG	0.0467	lb ai/a	1.66 oz/a		PRE	A	98 ab	99 a	99 a
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
10	REALM Q	38.75	WG	0.097	lb ai/a	4 oz/a		POST	B			99 a
	AATREX 4L	4	SC	1	lb ai/a	1 qt/a		POST	B			
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
11	LUMAX	3.948	SE	2.96	lb ai/a	3 qt/a		PRE	A	99 a	99 a	99 a
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B			
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B			
12	NONTREATED									0 c	0 c	0 b
LSD (P=.05)										0.8	0.0	0.0
Standard Deviation										0.5	0.0	0.0
CV										0.53	0.0	0.0
Replicate F										1.727	0.000	0.000
Replicate Prob(F)										0.2077	1.0000	1.0000
Treatment F										11677.381	0.000	0.000
Treatment Prob(F)										0.0001	1.0000	1.0000
										0.0001	0.0001	0.0001

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval							IPOHE 6-29-13 Control Percent 14 DAP 14 DA-A	IPOHE 7-13-13 Control Percent 28 DAP -2 DA-B	IPOHE 8-13-13 Control Percent 29 DA-B
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Unit Unit	Other Rate	Other Rate	Growth Stage	Appl Code
1	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A
	AATREX 4L	4	SC	1	lb ai/a	1 qt/a		PRE	A
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
2	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A
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	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A
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	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
4	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A
	CINCH ATZ	5.5	SC	2.75	lb ai/a	4 pt/a		PRE	A
5	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A
	BREKFREE ATZ	5.25	SC	1.97	lb ai/a	3 pt/a		PRE	A
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
6	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A
	BREKFREE ATZ	5.25	SC	2.63	lb ai/a	4 pt/a		PRE	A
7	INSTIGATE	45.84	WG	0.15	lb ai/a	5.25 oz/a		PRE	A
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
8	INSTIGATE	45.84	WG	0.172	lb ai/a	6 oz/a		PRE	A
	AATREX 4L	4	SC	1	lb ai/a	1 qt/a		PRE	A
	SIMAZINE 4L	4	SC	1.5	lb ai/a	1.5 qt/a		PRE	A
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
9	PREQUEL	45	WG	0.0467	lb ai/a	1.66 oz/a		PRE	A
	CINCH ATZ	5.5	SC	2.06	lb ai/a	3 pt/a		PRE	A
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
10	REALM Q	38.75	WG	0.097	lb ai/a	4 oz/a		POST	B
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	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
11	LUMAX	3.948	SE	2.96	lb ai/a	3 qt/a		PRE	A
	ABUNDIT EXTRA	3	SL	0.75	lb ae/a	32 fl oz/a		POST	B
	N-PAK AMS	3.4	SL	2.04	lb ai/a	4 % v/v		POST	B
12	NONTREATED							0 d	0 d
LSD (P=.05)							0.8	2.5	2.4
Standard Deviation							0.5	1.4	1.4
CV							0.53	1.63	1.55
Replicate F							1.727	0.409	0.729
Replicate Prob(F)							0.2077	0.6709	0.4954
Treatment F							11634.031	1244.966	1233.998
Treatment Prob(F)							0.0001	0.0001	0.0001

Instigate Programs in Corn.

Trial ID: 13-2C-MW60 Location: Belleville Res. Center Trial Year: 2013
Investigator: Bryan Young

Trial Comments

1. Protocol: DuPont (13-004).
2. Ratings: CI at 14 and 28 DAP; WC at 14 and 28 DAP (or prior to POST); 28 DA-B.
3. Target POST for 28-35 DAP.
4. Yield not requested.
5. Missing data in plots 310, 311, and 312 was due to standing water.
6. DAP = Days after planting.
7. Not harvested.