

DuPont Corn Programs.

Trial ID: 13-5B-N60      Location: Belleville Res. Center      Trial Year: 2013  
Investigator: Bryan Young

<b>Trial Status:</b> F one-year/final <b>Initiation Date:</b> 7-12-13 <b>Completion Date:</b> 9-24-13		<b>Trial Location</b>
<b>City:</b> Belleville <b>State/Prov.:</b> Illinois IL <b>Postal Code:</b> 62221	<b>Country:</b> USA	

**Objectives:**  
Evaluate the effect of fungicide/insecticide applications at tassel on corn yield.

<b>Study Director:</b> Bryan Young <b>Title:</b> Professor <b>Organization:</b> Southern Illinois University <b>Address:</b> 1205 Lincoln Drive - AG 176 - MC 4415 <b>Phone No.:</b> 618-453-7679 <b>City+State/Prov:</b> Carbondale IL <b>Mobile No.:</b> 618-713-6471 <b>Postal Code:</b> 62901 <b>E-mail:</b> bgyoung@siu.edu <b>Country:</b> USA		<b>Contacts</b>
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<b>Crop 1:</b> ZEAMD Zea mays indentata Dent corn <b>Variety:</b> DKC 63-33 <b>Description:</b> SS RIB		<b>Crop Description</b>
<b>Planting Rate, Unit:</b> 28000      S/A <b>Depth, Unit:</b> 1.5      IN <b>Row Spacing, Unit:</b> 30      IN	<b>Planting Date:</b> 7-12-13 <b>Planting Method:</b> SEEDED	

<b>Treated Plot Width:</b> 5 FT <b>Total Plot Width:</b> 10 FT <b>Treated Plot Length:</b> 40 FT <b>Total Plot Length:</b> 40 FT		<b>Site and Design</b>	
		<b>Site Type:</b> FIELD <b>Experimental Unit:</b> 1 PLOT <b>Tillage Type:</b> REDTIL reduced-till <b>Study Design:</b> RACOB� Randomized Complete Block (RCB)	
<b>Replications:</b> 2 <b>Untreated Arrangement:</b> INCLUDED single control randomized in each block			

No.	Previous Crop	Year
1.	ZEAMD	2012

<b>Maintenance</b>	
No.	Maintenance Product Name
1.	N 150 LB/A, P2O5 0 LB/A, K2O 0 LB/A

<b>% OM:</b> 2.4 <b>Texture:</b> SIL silt loam <b>pH:</b> 6.6 <b>Soil Name:</b> Winfield <b>CEC:</b> 7		<b>Soil Description</b>
		<b>Additional Measured Elements</b>

Element	Quantity	Unit
P1	75	lb/A
K	347	lb/A

<b>Moisture and Weather Conditions</b>	
<b>Overall Moisture Conditions:</b> ABONOR <b>Closest Weather Station:</b> ICN - Belleville IL	<b>Distance, Unit:</b> 0.5 MI

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No.	Date	Amount	Unit	Type	Type Description	Interval	Unit	Min Temp	Max Temp	Temp Unit
1.	6-30-13					7	DAY	61	86	F
2.	7-2-13	2.08	IN	RAIN	rain	2	DAY			
3.	7-7-13					7	DAY	62	94	F
4.	7-10-13	0.2	IN	RAIN	rain	1	DAY			
5.	7-14-13					7	DAY	64	94	F
6.	7-15-13	0.03	IN	RAIN	rain	1	DAY			
7.	7-20-13	0.59	IN	RAIN	rain	1	DAY			
8.	7-21-13					7	DAY	56	91	F
9.	7-26-13	0.03	IN	RAIN	rain	1	DAY			
10.	7-28-13					7	DAY	52	87	F
11.	7-30-13	0.46	IN	RAIN	rain	1	DAY			
12.	8-2-13	0.24	IN	RAIN	rain	1	DAY			
13.	8-4-13					7	DAY	62	87	F
14.	8-8-13	0.03	IN	RAIN	rain	3	DAY			
15.	8-11-13					7	DAY	54	85	F
16.	8-12-13	0.57	IN	RAIN	rain	1	DAY			
17.	8-18-13	0.1	IN	RAIN	rain	1	DAY			
18.	8-18-13					7	DAY	61	91	F
19.	8-25-13					7	DAY	62	100	F
20.	8-31-13	0.74	IN	RAIN	rain	1	DAY			
21.	9-1-13					7	DAY	57	92	F
22.	9-8-13	0.26	IN	RAIN	rain	1	DAY			

## Application Description

	A
Application Date:	9-3-13
Appl. Start Time:	10:30
Appl. Stop Time:	11:00
Application Method:	Spray
Application Timing:	VT
Application Placement:	BROFOL
Applied By:	RFK
Air Temperature, Unit:	77 F
% Relative Humidity:	64
Wind Velocity, Unit:	0 MPH
Dew Presence (Y/N):	N
Soil Temperature, Unit:	72 F
Soil Moisture:	NORMAL
% Cloud Cover:	0
Next Moisture Occurred On:	9-8-13
Time to Next Moisture, Unit:	5 DAY

## Crop Stage At Each Application

	A
Crop 1 Code, BBCH Scale:	ZEAMD
Stage Scale Used:	DESC
Stage Majority, Percent:	VT
Stage Minimum, Percent:	VT
Stage Maximum, Percent:	VT
Height, Unit:	96 IN
Height Minimum, Maximum:	94 96

## Pest Stage At Each Application

Pest 1 Code, Type, Scale:	

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**Application Equipment**

	<b>A</b>
<b>Appl. Equipment:</b>	CO2 sprayer
<b>Equipment Type:</b>	BACSPR
<b>Operation Pressure, Unit:</b>	40      PSI
<b>Nozzle Type:</b>	XR
<b>Nozzle Size:</b>	8002
<b>Boom Length, Unit:</b>	5      FT
<b>Spray Volume, Unit:</b>	20      GPA

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Pest Code Crop Code Rating Date Rating Type Rating Unit Rating Timing Trt-Eval Interval									ZEAMD 9-24-13 Injury Percent	CERCZM 9-24-13 Incidence Percent	CERCZM 9-24-13 Severity Percent
Trt	Treatment	Form	Form	Rate	Other	Other	Growth	Appl			
No.	Name	Conc	Type	Rate	Rate	Rate	Unit	Stage	Code		
1	APROACH	2.08	SC	0.0975	lb ai/a	6 fl	oz/a	VT	A	0 a	0.0 a
2	APROACH PREVATHON	2.08 0.43	SC SC	0.0975 0.047	lb ai/a lb ai/a	6 fl	oz/a oz/a	VT VT	A A	0 a	0.0 a
3	APROACH ASANA XL	2.08 0.66	SC EC	0.0975 0.0495	lb ai/a lb ai/a	6 fl	oz/a oz/a	VT VT	A A	0 a	0.0 a
4	APROACH ASANA XL PREVATHON	2.08 0.66 0.43	SC EC SC	0.0975 0.031 0.047	lb ai/a lb ai/a lb ai/a	6 fl	oz/a oz/a oz/a	VT VT VT	A A A	0 a	0.0 a
5	NO INSECTICIDES NO FUNGICIDES									0 a	1.0 a
LSD (P=.05)									0.0	0.00	0.00
Standard Deviation									0.0	0.00	0.00
CV									0.0	0.0	0.0
Replicate F									0.000	0.000	0.000
Replicate Prob(F)									1.0000	1.0000	1.0000
Treatment F									0.000	0.000	0.000
Treatment Prob(F)									1.0000	1.0000	1.0000

Means followed by same letter do not significantly differ ( $P=0.05$ , LSD)  
Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

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Trial Comments

1. Protocol: DuPont.
2. DI/DS at 21 DA-A.
3. Blanket PRE application of Instigate (6 oz/A) plus Bicep II Magnum (2 qt/A) was applied to entire area on 7-13-13.  
Blanket POST application of Abundit (1 qt/A) plus Aatrex 4L (1 qt/A) was applied to entire area on 7-26-13.
4. Yield.
5. On 8-31-13 there was severe green snap due to wind storm.
6. CERCZM = Gray leaf spot (*Cercospora zeae-maydis*).
7. Trial was not yielded due to late planting (7-12-13), green snap (8-31-13), and early frost (10-25-13).