

# Miscellaneous, including Alfalfa, Pasture, and Wheat

Southern Illinois University

Invinsa Application Timing in Corn.

Trial ID: 08-WU12-SE140 Location: Agronomy Res. Center

Investigator: Bryan Young, Professor, Southern Illinois University, bgyoung@siu.edu  
City State Zip Country: Carbondale IL 62901 USA  
Trial Status: FINAL Initiation Date: 06-05-08

Objectives: Determine the optimal application timing of Invinsa for corn.

Crop 1: ZEAMD Dent corn Variety: N68B-CB/LL/RW  
Planting Method: SEEDED Planting Date: 06-05-08  
Rate, Unit: 28000 S/A Depth, Unit: 1.5 IN  
Row Spacing, Unit: 30 IN

Pest 1 Type: D Code: CERCZM Cercospora zeae-maydis Gray leaf spot of maize

Plot Width, Unit: 15 FT Site Type: FIELD  
Plot Length, Unit: 50 FT Tillage Type: REDUCED-TILL  
Replications: 6 Study Design: Randomized Complete Block

Prior Crops, Year  
1. ZEAMD 2007

Field Prep./Maintenance: N 180 LB/A, P205 0 LB/A, K20 0 LB/A

% OM: 2.8 Texture: SILT LOAM  
pH: 6.7  
CEC: 10 Fert. Level: P1: 92 LB/A, K: 334 LB/A

	Application Description			
	A	B	C	D
Application Date:	06-26-08	07-10-08	07-24-08	08-08-08
Time of Day:	10:00	16:00	8:45	11:00
Application Method:	Spray	Spray	Spray	Spray
Application Timing:	V5	14DA"A"	28DA"A"	42DA"A"
Application Placement:	BROFOL	BROFOL	BROFOL	BROFOL
Applied By:	JLM	JLM	NRJ	JLM
Air Temperature, Unit:	85 F	86 F	79 F	82 F
% Relative Humidity:	52	67	70	56
Wind Velocity, Unit:	2 MPH	2 MPH	1 MPH	1 MPH
Dew Presence (Y/N):	N	N	N	N
Soil Temperature, Unit:	79 F	82 F	75 F	76 F
Soil Moisture:	NORMAL	ABONOR	NORMAL	ABONOR
% Cloud Cover:	5	10	95	0
	06-26-08	07-10-08	07-24-08	08-08-08
Crop stage at application:	V5	V7-V8	V12-V14	R2-R3
Height Min, Max (inch):	18 24	46 52	88 94	90 96

	Pest Stage At Each Application			
	06-26-08	07-10-08	07-24-08	08-08-08
Application Date:	06-26-08	07-10-08	07-24-08	08-08-08
Weed Code:	CERCZM	CERCZM	CERCZM	CERCZM
Stage Majority (leaves):	NA	NA	NA	NA

#### Application Equipment

Appl. Equipment:	CO2 sprayer	CO2 sprayer	CO2 sprayer	CO2 sprayer
Operating Pressure:	30 PSI	30 PSI	30 PSI	30 PSI
Nozzle Type:	Flat fan	Flat fan	Flat fan	Flat fan
Nozzle Size:	XR 8003	XR 8003	XR 8003	XR 8003
Boom Length, Unit:	10 FT	10 FT	10 FT	10 FT
Spray Volume, Unit:	20 GPA	20 GPA	20 GPA	20 GPA



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Pest Code									ZEAMD															
Crop Code									07-03-08		07-10-08		07-17-08		07-24-08		07-31-08		08-07-08		08-14-08		08-21-08	
Rating Date									Injury		Injury		Injury		Injury		Injury		Injury		Injury			
Rating Data Type									Percent		Percent		Percent		Percent		Percent		Percent		Percent			
Rating Unit									7 DA-A		14 DA-A		7 DA-B		14 DA-B		7 DA-C		14 DA-C		6 DA-D		13 DA-D	
Rating Timing																								
Trt-Eval Interval																								
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Other Unit	Other Rate	Other Unit	Growth Stage	Appl Code															
1	CHECK UNTREATED									0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a		
2	SILWET L77	100	SL	0.035	% v/v	0.035	% v/v	V5	A	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a		
2	A16780	0.125	SC	22.8	fl oz/a	25	gai/ha	V5	A															
3	CHECK UNTREATED											0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a		
4	SILWET L77	100	SL	0.035	% v/v	0.035	% v/v	14DA"A"	B			0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a		
4	A16780	0.125	SC	22.8	fl oz/a	25	gai/ha	14DA"A"	B															
5	CHECK UNTREATED													0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a		
6	SILWET L77	100	SL	0.035	% v/v	0.035	% v/v	28DA"A"	C					0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a	0 a		
6	A16780	0.125	SC	22.8	fl oz/a	25	gai/ha	28DA"A"	C															
7	CHECK UNTREATED																			0 a	0 a	0 a		
8	SILWET L77	100	SL	0.035	% v/v	0.035	% v/v	42DA"A"	D											0 a	0 a	0 a		
8	A16780	0.125	SC	22.8	fl oz/a	25	gai/ha	42DA"A"	D															
LSD (P=.05)										0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Replicate F										0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Replicate Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		
Treatment F										0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000		
Treatment Prob(F)										1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000		

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

