

Quilt and Warrior Combinations in Corn.

Project Code: 06-WF-SE-S100 Location: Belleville Research Center
 Investigator: Bryan Young

Investigator: Bryan Young, Associate Professor, Southern Illinois University

City State Zip Country: Belleville IL 62221 USA
Trial Status: Final **Updated:** 9-29-06

Objective:

Evaluate the impact of Quilt and Warrior applications on the yield of two corn hybrids.

Crop 1: ZEAMX corn, field **Variety:** See treatment list
Planting Method: Seeded **Planting Date:** 5-23-06
Rate: 28000 S/A **Depth:** 1.5 IN
Row Spacing: 30 IN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 45 FT **Reps:** 4
Tillage Type: No-Till **Study Design:** Randomized complete block
Previous Crop, Year: ZEAMX, 2005
Field Prep./Maintenance: N 150 LB/A, P205 50 LB/A, K20 150 LB/A

Soil Name: Ebbert **% OM:** 2.1 **pH:** 5.6 **CEC:** 10
Texture: Silt loam **Fert. Level:** P1: 54 LB/A, K: 316 LB/A

APPLICATION DESCRIPTION

	A	B
Application Date:	7-18-06	7-24-06
Time of Day:	10:30	10:00
Application Method:	Spray	Spray
Application Timing:	VT-R1-1	VT-R1-2
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	85 F	86 F
% Relative Humidity:	92	60
Wind Velocity, Unit:	2-4 MPH	1-2 MPH
Soil Moisture:	NORMAL	NORMAL

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	ZEAMX R1	ZEAMX R1
Height, Unit:	111 IN	125 IN

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	CO2 sprayer	CO2 sprayer
Operating Pressure:	50 PSI	50 PSI
Nozzle Type:	Flat fan	Flat fan
Nozzle Size:	XR 8002	XR 8002
Boom Length, Unit:	5 FT	5 FT
Spray Volume, Unit:	20 GPA	20 GPA

NOTES:

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Crop Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval IntervalZEAMX ZEAMX ZEAMX ZEAMX
Moisture Yield Grey LS Grey LS
Percent bu/A % Incid % Sever
10-10-06 10-10-06
28 DAT 28 DAT

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Prod Rate	Prod Unit	Grow Stg	Appl Code	ZEAMX Moisture Percent	ZEAMX Yield bu/A	ZEAMX Grey LS % Incid	ZEAMX Grey LS % Sever
1	DKC 60-17 RR									16.2	136	90	9
1	NONTREATED												
2	P33K44 RR									15.4	138	1	1
2	NONTREATED												
3	DKC 60-17 RR									17.3	146	4	1
3	QUADRIIS	2.08	F	0.146	lb ai/a	9	fl oz/a	VT-R1-1	A				
4	P33K44 RR									15.7	143	0	0
4	QUADRIIS	2.08	F	0.146	lb ai/a	9	fl oz/a	VT-R1-2	B				
5	DKC 60-17 RR									17.2	151	2	2
5	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	VT-R1-1	A				
6	P33K44 RR									15.5	132	0	0
6	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	VT-R1-2	B				
7	DKC 60-17 RR									17.6	143	0	0
7	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	VT-R1-1	A				
7	WARRIOR	1	CS	0.025	lb ai/a	3.2	fl oz/a	VT-R1-1	A				
8	P33K44 RR									15.9	133	0	0
8	QUILT	1.67	F	0.183	lb ai/a	14	fl oz/a	VT-R1-2	B				
8	WARRIOR	1	CS	0.025	lb ai/a	3.2	fl oz/a	VT-R1-2	B				
LSD (P=.05)										0.97	16.8	1.6	1.8
Replicate F										2.582	2.992	1.533	1.552
Replicate Prob(F)										0.0806	0.0540	0.2354	0.2306
Treatment F										6.992	1.390	3416.785	24.640
Treatment Prob(F)										0.0002	0.2608	0.0001	0.0001

Trial Comments

1. Protocol: Syngenta.
2. Ratings: DI/DS at 0 and 28 DAT; evaluate silk feeding if it occurs.
3. Blanket PRE application of Lexar (3.0 qt/A) + Aatrex (0.5 lbai/A), add burndown if necessary.
4. Hybrid A = DKC 60-17 RR, GLS = 7, 1 = good, 22% percentile.
Hybrid B = P33K44 RR, GLS = 6, 10 = good, 66% percentile.
5. Grey LS = Grey leafspot. % Incid = Percent incidence. % Sever = Percent severity.
DAT = Days after treatment.
Ratings at 28 days after the VT-R1-1 and VT-R1-2 were on 8-15-06 and 8-21-06, respectively.
6. There was no difference in silk feeding.
7. Harvested 10-10-06, (2) 30 inch rows by 42 ft.