

University of Tennessee

Corn Technology Trial - Madison Co.

Location: West TN Research and Education Center (Jackson)

Planting Date: 5-19-08

Plots: 8 rows x 20 ft (RCBD, 4 Reps)

Investigators: Stewart, Willis, S. Steckel

SWCB = Southwestern Corn Borer

CEW = Corn Ear Worm

FAW = Fall Armyworm

SMARTSTAX and VTPRO = stacked Bt events for caterpillar control, HXCBC - Herculex corn borer trait, HXRW - Herculex corn rootworm trait

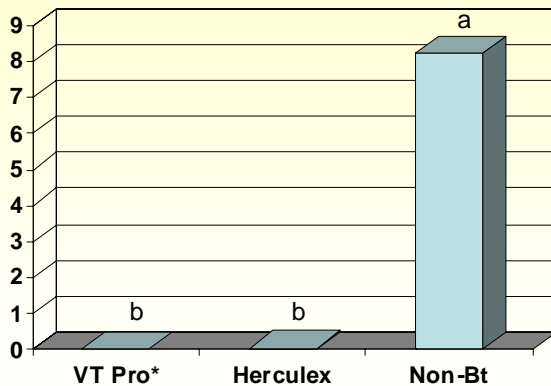
Pest Name	SWCB	FAW	CEW	CEW Freq. Tip Damage	CEW Avg. Tip Damage	SWCB Girdled Stalks	SWCB Avg. Tunnels
Description	Damaged plants	Damaged plants	Counts				
Rating Date	6/27/2008	7/11/2008	7/29/2008	7/29/2008	7/29/2008	9/3/2008	9/4/2008
Sample Size	20	20	10	10	10	60	10
Sample Size Unit	ROWFT	ROWFT	EAR	EAR	EAR	ROWFT	PLANT
Trt-Eval Interval	39 DA-A	53 DA-A	69 DA-A	69 DA-A	69 DA-A	107 DA-A	108 DA-A
Trt Treatment Name							
1 SMARTSTAX	2.00 b	3.00 b	0.50 c	0.75 b	0.08 c	0.00 b	0.00 b
2 VTPRO/HXCBC	1.75 b	0.75 bc	0.50 c	1.00 b	0.10 c	0.00 b	0.00 b
3 VTPRO/HXRW	2.50 b	1.00 bc	0.25 c	1.00 b	0.13 c	0.00 b	0.03 b
4 RR2/HXCBC	2.50 b	0.25 c	4.75 a	8.25 a	1.58 b	0.25 b	0.05 b
5 RR2	7.00 a	19.75 a	2.50 b	9.50 a	3.23 a	4.00 a	8.23 a

Pest Name	CEW / SWCB	% Damaged Stalks	Yield
Description	Avg. Kernel Damage		
Rating Date	9/4/2008	9/4/2008	9/17/2008
Sample Size	20	10	1
Sample Size Unit	EAR	PLANT	A
Trt-Eval Interval	108 DA-A	108 DA-A	175 DA-A
Trt Treatment Name			
1 SMARTSTAX	2.05 c	0.00 b	236.0 a
2 VTPRR2/HXCBC	3.94 c	0.00 b	227.9 a
3 VTPRR2/HXRW	3.14 c	2.50 b	235.1 a
4 RR2/HXCBC	9.83 b	5.00 b	233.7 a
5 RR2	27.20 a	90.00 a	206.9 a

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

Southwestern Corn Borer

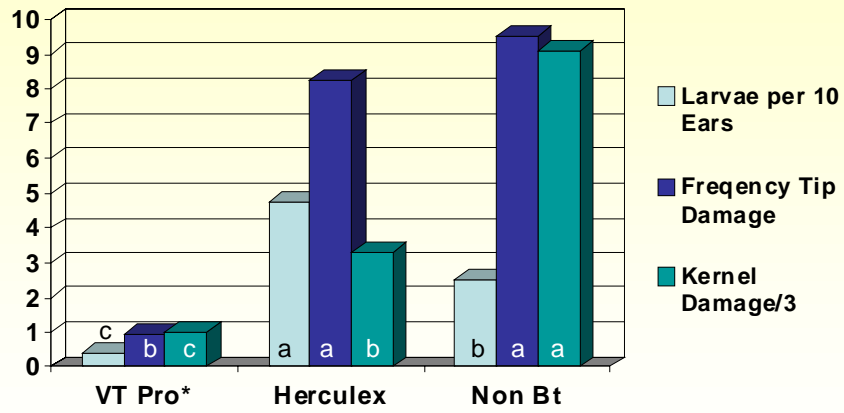
Tunnels per 10 Plants, 9/04/2008 (Stewart, UT Extension)



* Average of three hybrids (isolines) including VT Pro (2) and SmartStax (1)

Corn Earworm

Nos. per 10 Ears, 7/29/2008 (Stewart, UT Extension)



* Average of three hybrids (isolines) including VT Pro (2) and SmartStax (1)
Kernel damage includes SWCB for non-Bt hybrid