Black cutworm Control with seed treatment on Corn in Kansas – 2006
Greenhouse Trial
Planting date: May 10, 2006
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Evaluation date: May 23, May 26, May 31, 2006

Pest:	Black cutworm, *Agrotis ipsilon*
Crop:	Corn, 33 treatments
Location:	Manhattan, Kansas (Greenhouse)
Hybrids:	Trt 1-13, N67-D6; Trt 14-21, TAX13676; Trt 22-28, Pioneer 33R81; Trt 29-33, N67-D6
Planting Date:	May 10, 2006
Soil Characteristics:	To be obtained
Plot Size:	6 inch pots
Experimental Design:	Randomized Complete Block, 4 replications
Planting Information:	Corn planted 1-2 inch depth; Soil in good moist condition at planting; 1 seed per pot.
Field History:	None
Phytotoxicity:	None noted
Evaluation:	Corn planted in 6 inch pots on 05/10/06 (1 seed per pot). Infested with 2 early second instar black cutworm larvae/pot on 05/20/06. Evaluated 05/23/06, 05/26/06 and 05/31/06. Damage rating using 0-10 scale where 0 = no damage and 10 = plant dead, cut, or entirely consumed.

Trt. No.	Treatment/ Product Name	Damage Rating (Mean ± SE)		
		May 23, 06	May 26, 06	May 31, 06
1	Untreated check	8.8 ± 1.3abc	10.0 ± 0.0a	10.0 ± 0.0a
2	Control Fungicide	10.0 ± 0.0a	10.0 ± 0.0a	10.0 ± 0.0a
3	Cruiser 5 FS @ 0.25 MGA/seed	3.8 ± 2.4cdef	5.5 ± 2.6abcd	5.0 ± 2.9abcd
4	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 5.0 GA/100 Kg seed	3.0 ± 0.7def	5.5 ± 2.6abcd	3.5 ± 2.2bcd
5	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 10.0 GA/100 Kg seed	5.3 ± 2.0abcde	8.0 ± 2.0ab	6.3 ± 2.4abc
6	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 20.0 GA/100 Kg seed	6.8 ± 2.1abcd	10.0 ± 0.0a	10.0 ± 0.0a
7	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 40.0 GA/100 Kg seed	5.3 ± 1.8abcde	8.8 ± 1.3a	10.0 ± 0.0a
8	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 5.0 GA/100 Kg seed	5.0 ± 2.6abcd	8.3 ± 1.8a	5.0 ± 2.9abcd
9	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 10.0 GA/100 Kg seed	9.0 ± 0.6ab	8.8 ± 1.3a	8.0 ± 2.0ab
10	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 20.0 GA/100 Kg seed	6.5 ± 2.2abcd	10.0 ± 0.0a	6.0 ± 2.4abc
11	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 40.0 GA/100 Kg seed	4.0 ± 2.3bcdef	5.5 ± 2.6abcd	2.5 ± 2.5bcd

12	Poncho 250 5 SC @ 0.25 MGA/seed	0.0 ± 0.0f	0.0 ± 0.0d	0.0 ± 0.0d
13	Force 3 G @ 1.12 GA/100 row meter	0.3 ± 0.3ef	8.8 ± 1.3a	5.0 ± 2.9abcd
14	Untreated check	7.3 ± 1.6abcd	6.3 ± 1.7abc	5.0 ± 2.0abcd
15	Poncho 600 @ 0.25 MGA/seed	3.8 ± 1.7cdef	2.5 ± 2.5bcd	1.3 ± 1.3dc
16	V-10170 2.32 SC @ 0.25 MGA/seed	3.3 ± 2.4def	5.0 ± 2.9abcd	5.0 ± 2.9abcd
17	V-10170 2.32 SC @ 0.35 MGA/seed	4.5 ± 2.6bcdef	5.0 ± 2.9abcd	2.5 ± 2.5bcd
18	V-10112 1.77 SC @ 0.25 MGA/seed	4.5 ± 1.5bcdef	6.0 ± 2.0abc	6.5 ± 2.2abc
19	V-10112 1.77 SC @ 0.35 MGA/seed	7.5 ± 2.5abcd	7.0 ± 2.4ab	5.0 ± 2.9abcd
20	V-10194 EC @ 0.25 MGA/seed	4.5 ± 2.6bcdef	5.0 ± 2.9abcd	4.5 ± 2.6abcd
21	V-10194 EC @ 0.30 MGA/seed	2.5 ± 2.5def	5.0 ± 2.9abcd	2.5 ± 2.5bcd
22	Untreated check	7.5 ± 2.5abcd	7.0 ± 2.4ab	6.3 ± 2.4abc
23	Poncho FS @ 1.25 MGA/seed	2.5 ± 2.5def	5.0 ± 2.9abcd	5.0 ± 2.9abcd
24	Poncho FS @ 0.25 MGA/seed.	0.0 ± 0.0f	0.8 ± 0.8dc	0.0 ± 0.0d
25	Poncho FS @ 0.25 MGA/seed + Aztec 2.1G @ 172 GA/ha	0.0 ± 0.0f	0.0 ± 0.0d	0.0 ± 0.0d
26	Poncho FS @ 1.25 MGA/seed + Aztec 2.1G @ 172 GA/ha	0.0 ± 0.0f	0.0 ± 0.0d	0.0 ± 0.0d
27	Cruiser 5 FS @ 1.25 MGA/seed	3.0 ± 2.4def	5.0 ± 2.9abcd	5.0 ± 2.9abcd
28	Cruiser 5 FS @ 0.25 MGA/seed	10.0 ± 0.0a	7.0 ± 2.4ab	7.5 ± 2.5ab
29	Control Fungicide	10.0 ± 0.0a	6.0 ± 2.0abc	7.5 ± 2.5ab
30	Cruiser 5 FS @ 0.25 MGA/seed	5.0 ± 2.9abcdef	5.0 ± 2.9abcd	5.0 ± 2.9abcd
31	Cruiser 5 FS @ 0.125 MGA/seed	6.3 ± 2.4abcd	4.5 ± 2.6abcd	5.0 ± 2.9abcd
32	A14974 CS @ 1.12 GA/100 row meter	2.5 ± 2.5def	2.5 ± 2.5bcd	0.0 ± 0.0d
33	Poncho 250 5 SC @ 0.25 MGA/seed	10.0 ± 0.0a	10.0 ± 0.0a	10.0 ± 0.0a

Means within a column followed by the same letter are not significantly different ($P > 0.05$; PROC GLM; Mean comparison by LSD [SAS Institute 2003]).