



2006 white grub control with seed treatments on corn in Kansas

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Evaluation date: plants/Hill (04/24/06 and 06/21/06), damage rating (04/24/06)

Pest: White grub, *Phyllophaga* sp.
 Crop: Corn, 33 treatments
 Location: Marshall County, Kansas
 Hybrids: Trt 1-13, N67-D6; Trt 14-21, TAX13676;
 Trt 22-28, Pioneer 33R81; Trt 29-33, N67-D6
 Planting Date: April 04, 2006
 Soil Characteristics: To be obtained
 Plot Size: One 3 inch hill
 Experimental Design: Randomized Complete Block, 4 replications
 Planting Information: Corn planted 1-2 inch depth. Soil in good moist condition at planting, 2 seeds/hill.
 Field History: Broome grass pasture
 Phytotoxicity: None noted
 Evaluation: Counted number of plants per hill on 04/24/06 and 06/21/06 and assigned damage rating/hill on 04/24/06. Damage rating using 0-10 scale where 0 = no damage and 10 = dead plants or plants did not emerge.

Trt. No.	Treatment/ Product Name	Plants/Hill (04/24/06)	Plants/Hill (06/21/06)	Damage rating (04/24/06)
1	Untreated Check	0.8 ± 0.5cd	0.0 ± 0.0e	7.0 ± 1.8ab
2	Control Fungicide	0.3 ± 0.3d	0.0 ± 0.0e	8.8 ± 1.3a
3	Cruiser 5 FS @ 0.25 MGA/seed	1.3 ± 0.5abc	1.3 ± 0.5abcd	3.0 ± 2.4cdefg
4	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 5.0 GA/100 Kg seed	0.8 ± 0.5cd	1.3 ± 0.5abcd	3.3 ± 2.0bcdefg
5	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 10.0 GA/100 Kg seed	1.8 ± 0.3ab	1.8 ± 0.3ab	0.0 ± 0.0g
6	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 20.0 GA/100 Kg seed	1.0 ± 0.0bcd	0.8 ± 0.3cde	1.3 ± 1.3defg
7	Cruiser 5 FS @ 0.25 MGA/seed + Force 20 CS @ 40.0 GA/100 Kg seed	2.0 ± 0.0a	1.5 ± 0.3abc	0.0 ± 0.0g
8	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 5.0 GA/100 Kg seed	1.3 ± 0.3abc	1.0 ± 0.4bcd	4.3 ± 1.4bcdef
9	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 10.0 GA/100 Kg seed	1.3 ± 0.3ab	1.8 ± 0.3ab	0.8 ± 0.8fg
10	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 20.0 GA/100 Kg seed	2.0 ± 0.0a	2.0 ± 0.0a	0.0 ± 0.0g
11	Cruiser 5 FS @ 0.25 MGA/seed + A13219 CS @ 40.0 GA/100 Kg seed	1.8 ± 0.3ab	1.8 ± 0.3ab	0.8 ± 0.8fg
12	Poncho 250 5 SC @ 0.25 MGA/seed	2.0 ± 0.0a	2.0 ± 0.0a	0.0 ± 0.0g
13	Force 3 G @ 1.12 GA/100 row meter	1.5 ± 0.5abc	1.8 ± 0.3ab	2.5 ± 2.5defg
14	Untreated check	1.5 ± 0.3abc	1.3 ± 0.5abcd	5.0 ± 0.0abcde

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15	Poncho 600 @ 0.25 MGA/seed	1.8 ± 0.3ab	2.0 ± 0.0a	0.0 ± 0.0g
16	V-10170 2.32 SC @ 0.25 MGA/seed	2.0 ± 0.0a	1.8 ± 0.3ab	0.5 ± 0.5fg
17	V-10170 2.32 SC @ 0.35 MGA/seed	1.3 ± 0.5abc	1.5 ± 0.5abc	3.8 ± 2.4bcdefg
18	V-10112 1.77 SC @ 0.25 MGA/seed	2.0 ± 0.0a	1.5 ± 0.5abc	2.5 ± 1.4defg
19	V-10112 1.77 SC @ 0.35 MGA/seed	1.8 ± 0.3ab	1.8 ± 0.3ab	3.3 ± 2.0bcdefg
20	V-10194 EC @ 0.25 MGA/seed	2.0 ± 0.0a	1.8 ± 0.3ab	0.0 ± 0.0g
21	V-10194 EC @ 0.30 MGA/seed	1.5 ± 0.3abc	1.3 ± 0.3abcd	0.0 ± 0.0g
22	Untreated check	1.0 ± 0.4bcd	0.5 ± 0.5de	5.8 ± 1.5abcd
23	Poncho FS @ 1.25 MGA/seed	2.0 ± 0.0a	2.0 ± 0.0a	0.0 ± 0.0g
24	Poncho FS @ 0.25 MGA/seed.	2.0 ± 0.0a	2.0 ± 0.0a	0.0 ± 0.0g
25	Poncho FS @ 0.25 MGA/seed + Aztec 2.1G @ 172 GA/ha	2.0 ± 0.0a	1.8 ± 0.3ab	0.8 ± 0.8fg
26	Poncho FS @ 1.25 MGA/seed + Aztec 2.1G @ 172 GA/ha	1.8 ± 0.3ab	1.8 ± 0.3ab	1.3 ± 1.3efg
27	Cruiser 5 FS @ 1.25 MGA/seed	1.8 ± 0.3ab	2.0 ± 0.0a	0.0 ± 0.0g
28	Cruiser 5 FS @ 0.25 MGA/seed	1.5 ± 0.3abc	0.5 ± 0.5de	6.8 ± 2.0abc
29	Control Fungicide	1.5 ± 0.5abc	0.8 ± 0.5cde	3.0 ± 2.4cdefg
30	Cruiser 5 FS @ 0.25 MGA/seed	2.0 ± 0.0a	2.0 ± 0.0a	0.0 ± 0.0g
31	Cruiser 5 FS @ 0.125 MGA/seed	2.0 ± 0.0a	1.8 ± 0.3ab	0.0 ± 0.0g
32	A14974 CS @ 1.12 GA/100 row meter	1.8 ± 0.3ab	1.3 ± 0.5abcd	1.3 ± 1.3fgh
33	Poncho 250 5 SC @ 0.25 MGA/seed	2.0 ± 0.0a	2.0 ± 0.5a	0.0 ± 0.0g

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]).

Reference to specific products is provided solely for informational purposes. Experiments with pesticides on non-labeled crops or pests is part of the insecticide registration process, it does not imply endorsement or recommendation of non-labeled uses of pesticides by Kansas State University. All pesticide use must be consistent with current labels.

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