

Wireworm - Spindletop 2006

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WIREWORM CONTROL IN NO-TILL CORN, 2006: Fifteen insecticide treatments were evaluated for control of wireworm larvae, primarily *Melanotus depressus*. The test plot was planted following soybeans the previous year on the UK Spindletop Research Farm in Fayette Co., KY, on 18 Apr as a RCB with 4 replicates. There has been a history of wireworm damage in this particular field. Individual sub-plots consisted of single row of corn, 25 m long, with 76.2 cm row spacing. The corn hybrid used for all treatments was N67-D6 at a seeding rate of 34,500 kernels per acre. All insecticide treatments were applied at planting except the seed treatments which were custom applied prior to the seed before planting. Stand counts from the center 18.3 m were recorded on 2, 8, 18, May, and 8 Jun. Extended leaf heights were recorded from 10 plants in each plot on 18 Jun. Data were subject to ANOVA and treatment means compared by LSD (SAS Institute).

Treatment	Rate	Stand Counts				Extended Leaf Height 6/18/06	Yield (bu/acre)
		5/02	5/08	5/18	6/08		
Untreated		25,700 h	26,281 gh	25,047 gh	24,611 f	142.2 bcd	99.9 abcd
Fortress 5G SB	1.0 oz / 1000 ft (in furrow)	26,136 gh	26,063 h	25,047 gh	24,539 f	139.9 bcd	100.1 abcd
Fortress 5G SB	1.5 oz / 1000 ft (in furrow)	26,789 efgh	26,862 fgh	26,209 efgh	25,918 ef	144.5 abcd	118.8 a
Fortress 5G SB	2.0 oz / 1000 ft (in furrow)	27,225 efgh	27,080 efgh	25,555 gh	25,846 ef	139.9 bcd	88.1 bcd
Aztec 4.67G SB	1.0 oz / 1000 ft (in furrow)	24,974 h	26,136 h	24,974 h	24,394 f	139.9 bcd	108.6 abcd
Aztec 4.67G SB	1.5 oz / 1000 ft (in furrow)	26,739 efgh	27,225 efgh	25,918 fgh	26,572 def	142.7 abcd	118.6 a
Aztec 4.67G SB	2.0 oz / 1000 ft (in furrow)	28,024 defg	28,750 def	27,370 defgh	27,443 cde	146.7 abc	122.6 a
Poncho 250	0.25 mg/kernel	31,000 abc	31,218 abc	30,710 abc	30,202 abc	138.3 cd	127.7 a
Capture LFR 1.5 Poncho 250	3.4 fl oz / acre 0.25 mg/kernel	28,387 defg	28,677 defg	28,822 bcd	27,951 bcde	148.5 ab	80.6 d
Capture LFR 1.5	3.4 oz / acre	28,604 def	28,677 defg	28,532 bcde	28,024 bcde	148.2 abc	87.1 cd
Cruiser	0.25 mg/kernel	29,621 bcd	29,113 cdef	28,750 bcde	28,532 bcde	136.0 d	116.1 ab
A14115 Cruiser	0.125 mg /kernel 0.125 mg/kernel	31,291 ab	32,089 ab	31,073 ab	30,637 ab	147.5 abc	111.5 abc
Force 250 GA/L	8 fl oz/a	26,426 fgh	28,024 efgh	27,588 defg	26,935 def	152.6 a	107.8 abcd
Poncho 1250	1.25 mg/kernel	33,178 a	33,541 a	32,960 a	31,944 a	143.0 abcd	110.3 abc
Force 3 G	4 oz/1000'	28,967 cde	29,330 cde	28,314 cdef	29,330 abcd	140.7 bcd	111.7 abc
Cruiser	1.25 mg /kernel	29,911 bcd	30,565 bcd	29,766 bcd	29,185 abcd	142.5 bcd	111.7 abc

In general, the higher rates of Aztec and Fortress improved stands when compared to the below labeled rates. We do not ever recommend using pesticides at rates above or below those listed on the label, but we may include those for research and demonstration purposes. The other treatments in the study all improved stands when compared to the untreated control. The higher rates of Poncho and Cruiser also improved stands and vigor.

This study indicates that producers need to match the technology for wireworm control with their specific field needs (the potential for stand loss in that field) and with their available equipment.

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