

Thrips management on cabbage by insecticides, Fremont, Ohio, 2010

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Randomized complete block design with 8 treatments, 4 blocked replicates, all with one thrips-susceptible variety ('SuperKraut'). Plots 25 ft long, 2 rows wide, 30" row spacing. Transplanted 6/8/2010. Treatments at cupping were applied 7/13/2010. Treatment applied 10 days after cupping were applied on 7/23/2010. Leverage was applied five times at 2-week intervals, on 6/29, 7/13, 7/27, 8/9, and 8/23.

Maintenance sprays for caterpillar control were B.T., alternated DiPel DF and XenTari DF, applied weekly over all plots including checks. Spray dates and rates were 7/1, DiPel 0.5 lb/A; 7/7, XenTari 0.5 lb/A; 7/13, DiPel 1 lb/A; 7/20, XenTari 1 lb/A; 7/27, DiPel 1 lb/A; 8/9, DiPel 1 lb/A; 8/17, XenTari 1 lb/A; 8/23, DiPel 1 lb/A; 8/30, XenTari 1 lb/A.

Three heads per plot were harvested 8/31/2010. The outer 10 leaves of the head were removed and evaluated for injury by thrips, using a scale of 0 to 5. The color of the 10 leaves was noted as green or white; the outer 10 leaves of most heads were typically 3 green and 7 white. Green leaves are culled regardless of thrips injury, while white leaves are culled only if they have thrips injury.

Treatment	Thrips Damage Rating (scale 0 [none] to 5 [heavy]) on outer 10 leaves of head	Number of leaves damaged by thrips in outer 10 leaves ^a	Number of white leaves per head culled ^a
Movento 2SC, 5 fl oz/A, + DyneAmic 0.25%, spray at cupping and 10 days later	0.41	2.7 B	0.2 B
Leverage 360, 3 fl oz/A, spray 5 times at 2 week intervals	0.42	2.8 B	0.5 B
untreated check	0.62	3.5 B	1.0 B
MSR (Metasystox-R) 2SC, 3 pt/A, spray at cupping and 10 days later	0.70	3.9 B	1.1 B
Radiant 1SC, 10 fl oz/A, spray at cupping and 10 days later	0.80	4.6 AB	1.4 B
Thionex 3EC, 1.3 qt/A, spray at cupping and 10 days later	0.81	3.8 B	1.2 B
Assail 30SG, 4 oz/A, spray at cupping and 10 days later	0.83	3.5 B	0.7 B
Admire Pro 4.6F, 10.5 fl oz/A, sidedressed at cupping	0.90	6.1 A	3.3 A
<i>Treatment effect from ANOVA</i>	<i>P = 0.12</i>	<i>P = 0.0438</i>	<i>P = 0.0306</i>

^a Within each column, means followed by same letter are not significantly different ($P > 0.05$); mean separations by LSD.