Turfgrass: <u>Poa</u> <u>pratensis</u> L.
<u>Festuca</u> <u>rubra</u> L.

Hairy chinch bug: <u>Blissus</u> <u>leucopterus</u> <u>hirtus</u>

Chinch bug control, 1989: A grid of 4' x 4' plots separated by 1' wide buffer strips was established in a home lawn with a heavy infestation of chinch bugs in Okemos, Michigan. Following precounts, six replications of 3 insecticide treatments were applied on July 31, 1989 between 2:00 and 4:00 PM. Temperature at application was 82°F and conditions were partly sunny with 0-5 mph winds. The yard was not irrigated and no precipitation occurred until the fourth day postspray when 2.37 inches of rain fell. All products were applied with a single nozzle hand-held CO_2 sprayer from R&D Sprayers. The application was made at 50 psi through an 80°LF3 nozzle. Insecticides were mixed with water and applied at a rate of 240 ml/16 ft^2 (175 gal/A). Postcounts were made 7 days later on August 7, 1989. Precounts consisted of three minute counts in each replication. For the postcounts, each plot was divided in two and each half was counted for three minutes. The two counts from each replication were then averaged. This test was on Kentucky bluegrass-fine fescue with a 0-1/8" thatch layer and sandy soil.

Dursban 4E and Triumph 4EC reduced chinch bug populations by 84 and 80%, respectively. Tempo 2C was not effective in this test. These results differ from those obtained in previous years. In 1988, Tempo 2C caused the greatest reduction in chinch bugs, of any treatment. However, this year we had the best differences between treatments and control in five years of testing.

Chinch Bug Control

1.   Dursban and Triumph were highly effective.

2.   Tempo 2C was not effective in this test.

      However, Tempo has been effective in tests in previous years.

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* Apply Dursban, Triumph, Turcam, or Diazinon to infested lawns in July.

Treatment	Rate (lbs ai/A)	Mean initial population/plot	Mean post treatment population/plot	Mean percent reduction
Dursban 4E	1.01	28.2	4.6 a	84
Triumph 4EC	1.11	25.2	4.9 a	80
Tempo 2C	0.144	25.7	18.8 ab	27
Control		28.8	53.8 b	0