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**Turfgrass:** Poa pratensis L.

**Ant:** Prenolepis imparis

**Ant control in turfgrass, 1989:** Five replications of each treatment were established as plots in the fairway of hole #9 at the Ionia Country Club in Ionia, Michigan on 8/21/89. Each plot was 12' x 12' with a 3' buffer row between. Plots were sprayed with an R&D hand-held 4-nozzle CO<sub>2</sub> backpack sprayer at 50 psi through #3 80° nozzles. Granular products were applied with custom-made hand shakers designed to require three or four trips over the entire plot area to apply the amount of pre-weighed product. Counts were made on a weekly basis for all visible, active ant mounds that could be seen while standing upright.

Cool weather conditions in September slowed ant activity in all plots by Week 3 of the test. Triumph 4E, Dursban ME, and Dursban 4E provided the best control of ants in this test, suppressing the number of mounds per plot effectively for five weeks. Four weeks after treatment, Amdro leafcutter ant bait, Mocap 5G (3/4 rate), and Sevinol also had significantly less ant mounds than control plots. Five weeks after treatment, only Triumph 4E and Dursban ME 20 were significantly different (at  $p = .05$ ) from the control treatment. However, the Amdro leafcutter ant bait was the next best treatment and was significantly different at  $p = 0.1$ . The leafcutter ant bait was significantly better than the fire ant bait at 1, 2, 3 and 4 weeks after treatment.

### Ant Control

1. Triumph 4E, Dursban ME and Dursban 4E provided good control for 5 weeks.
2. Amdro leaf cutter ant bait was the next best treatment, more effective than the fire ant bait.
3. Additional work is needed to improve ant baits by making granules more attractive to the major pest species.

Treatment	Rate (lb ai/acre)	Precount	Week 1	Week 2	Week 3	Week 4	Week 5
Triumph 4E	2.2	58.4 ab	1.0 a	1.6 a	1.0 a	1.6 a	1.2 a
Durshan ME20	2.0	62.4 ab	2.2 a	5.2 a	6.2 ab	5.8 ab	1.8 a
Amdro .88% leaf cutter ant bait	1.0	54.4 b	14.0 a	12.2 ab	14.6 abc	7.8 ab	4.8 ab
Durshan 4E	2.0	81.4 b	6.2 a	7.6 ab	8.8 ab	6.8 ab	6.8 ab
Sevimol 4E	8.0	54.4 ab	17.4 a	19.2 b	20.8 bcd	15.8 bc	7.8 ab
Mocap 3/4 rate	4.0	45.4 a	11.2 a	12.6 ab	19.2 bcd	11.4 ab	8.8 ab
Neoplectana nematodes	1 x 10 <sup>9</sup> /Acre	66.8 ab	54.4 b	34.4 cd	29.4 cd	23.0 cd	12.6 ab
Control		78.4 ab	51.0 b	46.0 d	44.8 e	28.2 d	14.2 b
Amdro .88% fire ant bait	1.0	76.8 b	37.0 b	31.8 c	32.0 de	23.0 cd	15.8 b