

0201 – **TURF:** *Agrotis palustris* (Huds)
 HONEY ANT; *Prenolepsis imparis* (Say)

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ANT MOUNDING ON A GOLF COURSE FAIRWAY, 2002: An irrigated bentgrass fairway at Muskegon Country Club in Muskegon, MI was used for this test. Ant activity was confined to the edge of the fairway. 20 ft long x 6 ft wide plots were set up along both edges of the fairway. Each treatment was replicated 6 times with three replicates on each side of the fairway. Treatments were randomized within replications. All treatments were initially applied on 15 Jun with either a CO₂ powered R&D Sprayers backpack boom sprayer, applying 175 gal finished spray/acre at 50 psi with four 8008 nozzles, or with a hand-held shaker. The Sevin SL 2 lb ai/A treatment was repeated on 28 Jun, 16 Jul and 29 Jul. The DeltaGard 5SC 0.065 lb ai/A treatment was reapplied on 10 Jul, 16 Jul and 29 Jul. One of the treatments was an alternating compound treatment with Sevin SL 2 lb ai/A applied on 6/18 and 10 Jul and DeltaGard 5SC 0.065 lb ai/A applied on 10 Jul and 29 Jul. Irrigation was applied every evening except the night of 10 Jul. The Firestar and both rates of the TADS bait treatments were repeated on 10 Jul after determining the bait treatments had been heavily wetted within 24 hours after the initial 18 Jun application. Plants were evaluated on 18 Jun, 28 Jun, 10 Jul, 16 Jul, 29 Jul and 13 Aug by counting active ant mounds in each plot.

Significant differences between treatments lasted for 4 weeks in this test. Dursban gave rapid knockdown and had the fewest ant mounds throughout the 8 weeks of the test. The synthetic pyrethroids Talstar and DeltaGard (at the high rate) also gave excellent reduction of ant mounding for the length of the test. Scimitar gave an initial knockdown of ant mounding but 3 weeks into the test the mean number of ant mounds was no longer significantly different from the control treatment. The Sevin SL treatments, Sevin/DeltaGard alternate treatment, Firestar, both rates of the TADS bait, repeat DeltaGard at the low rate and Merit treatment did not significantly reduce ant mounding at any time during the test.

Compound	Rate	Application date(s)					# ant mounds per 120 ft ²					
		6/18	6/28	7/10	7/16	7/29	6/18/02	6/28/02	7/10/02	7/16/02	7/29/02	8/13/02
Dursban Pro	1 lb ai/A	x					28.2 a	2.7 a	2.0 a	2.3 a	4.3 a	2.3 a
Talstar GC	0.2 lb ai/A	x					26.0 a	2.5 a	2.2 a	3.5 ab	6.3 a	3.5 a
DeltaGard 5 SC	0.13 lb ai/A	x					15.0 a	6.0 abc	4.3 ab	4.5 abc	10.7 a	4.5 a
Sevin SL & DeltaGard 5 SC	2 lb ai/A 0.065 lb ai/A	x			x							
				x		x	17.3 a	17.5 bcd	7.8 abc	7.2 abcd	7.0 a	7.2 a
Firestar	15 lb form/A	x		x			12.8 a	14.0 cd	12.2 bc	8.0 bcde	8.2 a	8.0 a
TADS bait	15 lb form/A	x		x			20.8 a	13.2 bcd	7.3 abc	8.5 bcde	10.7 a	8.5 a
TADS bait	10 lb form/A	x		x			11.8 a	15.3 bcd	11.3 bc	9.5 bcde	9.8 a	9.5 a
Scimitar 10WP	9.6 ox form/A	x					26.0 a	8.7 ab	7.5 abc	9.3 cde	9.2 a	9.3 a
Unsprayed							25.0 a	23.8 cd	11.2 bc	11.8 de	9.2 a	11.8 a
Sevin SL	2 lb ai/A	x	x		x	x	30.7 a	25.5 d	13.3 bc	13.0 de	14.5 a	13.0 a
DeltaGard 5 SC	0.065 lb ai/A	x		x	x	x	27.2 a	14.7 bcd	14.0 bc	13.8 cde	14.5 a	13.8 a
Merit 75WP	0.4 lb ai/A	x					24.3 a	22.2 d	14.8 c	15.0 de	12.8 a	15.0 a
Sevin SL	4 lb ai/A	x					22.5 a	24.0 d	16.8 c	17.8 e	10.7 a	17.8 a

Means followed by the same letter are not significantly different (P<0.05 ANOVA/Fisher's Protected LSD). Data were transformed using log₁₀ (X+1) prior to ANOVA. Untransformed data are presented.