0306 – **TURF:** Agrotis palustris (Huds)
TURFGRASS ANT; Lasius neoniger Emery

D. R. Smitley & T. W. Davis
Department of Entomology
Michigan State University
East Lansing, MI 48824-1115
(517) 355-9672
tdavis@msu.edu

ANT MOUNDING ON A GOLF COURSE FAIRWAY, 2003: An irrigated bentgrass fairway at Wuskowhan Players Club near Port Sheldon, MI was used for this test. 20 ft-long x 6-ft wide plots were set up in rows with a 1 ft buffer between the rows. All active ant mounds were counted before assigning treatments to the plots. Each treatment was replicated 4 times. Treatments were randomized within replications based on precounts. All treatments were applied on 2 Jun with either a CO_2-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. Plots were evaluated on 9 Jun, 16 Jun, 23 Jun, 30 Jun and 7 Jul by counting active ant mounds in each plot.

Significant differences among treatments were observed 2 and 3 weeks after insecticides were applied. Dursban Pro (1.0 mounds/plot), Scimitar (1.0), Talstar F (2.3), Precise (1.8) and Astro (4.0) gave the most reliable suppression of ant mounding at the 3 wk mark compared with the control (12.5 mounds/plot). The remaining treatments were not statistically different from the untreated check.

		Mean number of ant mounds per plot					
Chemical/Form	Rate	6/2/03	6/9/03	6/16/03	6/23/03	6/30/03	7/7/03
Dursban Pro (2 lb ai/gal)	1 lb ai/A	5.0 a	1.8 a	0.0 a	1.0 a	2.5 a	2.8 a
Scimitar (0.88 lb ai/gal)	0.069 lb ai/A	6.8 a	0.8 a	0.3 ab	1.0 a	3.5 a	3.5 a
Talstar F (2/3 lb ai/gal)	0.05 lb ai/A	8.5 a	0.8 a	0.5 ab	2.3 ab	6.8 a	6.0 a
Precise (4% gran)	5 lb ai/A	5.0 a	2.3 a	2.5 bc	1.8 a	7.0 a	2.8 a
Tempo 20WP	0.135 lb ai/A	8.3 a	0.8 a	3.8 bc	9.3 bc	12.3 a	14.5 a
Astro (3.2 lb ai/gal)	0.2 lb ai/A	4.8 a	0.5 a	4.0 cd	4.0 ab	3.3 a	3.5 a
Sevin SL (4 lb ai/gal)	8 lb ai/A	6.3 a	4.5 a	5.5 cde	5.8 abc	7.0 a	8.5 a
DeltaGard GC 5SC	0.85 lb ai/A	8.8 a	1.0 a	6.5 de	7.5 bc	12.8 a	12.5 a
Merit 75WP	4 lb ai/A	6.5 a	2.8 a	7.8 cde	6.5 abc	5.3 a	7.5 a
Unsprayed Check		7.8 a	6.3 a	10.0 e	12.5 c	15.5 a	13.8 a

Means followed by the same letter are not significantly different (P<0.05 ANOVA/Fisher's Protected LSD). Data were transformed using $\log_{10}$ (X+1) prior to ANOVA. Untransformed data are presented.

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		percent reduction in ant mounds from the check plots per date					
Chemical/Form	Rate	6/2/03	6/9/03	6/16/03	6/23/03	6/30/03	7/7/03
Dursban Pro (2 lb ai/gal)	1 lb ai/A	0	71	100	92	84	80
Scimitar (0.88 lb ai/gal)	0.069 lb ai/A	0	87	97	92	77	75
Talstar F (2/3 lb ai/gal)	0.05 lb ai/A	0	87	95	82	56	57
Precise (4% gran)	5 lb ai/A	0	63	75	86	55	80
Tempo 20WP	0.135 lb ai/A	0	87	62	26	21	0
Astro (3.2 lb ai/gal)	0.2 lb ai/A	0	92	60	68	79	70
Sevin SL (4 lb ai/gal)	8 lb ai/A	0	29	45	54	55	38
DeltaGard GC 5SC	0.85 lb ai/A	0	84	35	40	17	9
Merit 75WP	4 lb ai/A	0	55	22	48	66	46
Unsprayed		0	0	0	0	0	0