

**Hickory Ridge - Phyllom
2009**

NOT FOR PUBLICATION

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LOCATION: Hickory Ridge C.C., Amherst, MA

TURF USE: golf course rough (#6)

INSECT: **Oriental beetle**

DATE TREATED: 20 Aug 09

DATE SAMPLED: 24 Sept 09

PROCEDURE: 8 ft. by 8 ft. plots, 5 replications, CRB design: all applications made by hand (shaker jars for granular products, with half the product applied in one direction, the remainder applied at 90 degrees); plots watered in with 0.25 inch irrigation within one hour after application. Plots sampled by inspecting five 4.25 inch diameter plugs per plot (25 observations per treatment).

TURF CONDITION: On the sampling date (36 DAT) and approximately 2 months thereafter, the treatment plots showed NO signs of grub or foraging damage. There was no visible damage in the untreated areas but there was obvious skunk damage about 20 yards from the plot area.

TREATMENT	Rate	mean grubs per plug	s.e.	mean grubs per sq. ft.	Per cent CONTROL
Check	---	2.70 a	3.430	27.5	---
PHY Granules-2-09	1.2g/ft ²	0.42 b	0.813	3.5	87
PHY Granules-2-09	1.6g/ft ²	0.40 b	0.821	3.2	88
PHY Granules-1-09	1.2g/ft ²	1.12 a	0.912	11.2	59
PHY Granules-1-09	1.6g/ft ²	1.20 a	1.852	12.2	66
Merit 0.5 G	0.3 lb AI/A	0.45 b	0.759	4.6	83

A previous formulation that is no longer used.

Numbers followed by the same letter are not significantly different, Fisher's Protected LSD; F = 5.10, P < 0.0001, significance level = 0.05.

In a University Study at UMASS by Dr. Vittum, Phyllom's grubGONE! (*Bt galleria* technology) performed better than a synthetic chemical on golf course turf against Oriental Beetle Grubs.