

Foliar Nematode (*Aphelenchoides* spp.) Control on Tuberous Begonia

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Symptoms: browning between leaf veins - progresses to leaf edges
Pinching infested leaves reduces but does not eliminate nematodes

Olympic - Pylon - GH miticide
Label rate - 2.6 - 5.2 oz/100 gal
Expanded foliar nematodes (not NY)

Trial 1: December 2001 - January 2002
Total 20 symptomatic Begonias

Two treatments:
10 plants - One Pylon application
10 plants - untreated control

Pylon - Treatment rate:
– 0.78 ml /2 L water (5.0 oz/100 gal)



Evaluation:
Cut each leaf 1” squares - 4 pieces
Placed 20ml water minimum 24 hrs
Pour mixture beaker = 100ml dilution
Draw off 3 - 1ml samples/beaker
Petri dishes with gridlines
Counted live/dead nematodes
40X dissecting scope - bottom light

Sampling Procedure: Sandy Sardanelli -University of Maryland



- Precount, postcount 2wks, 4wks
- One symptomatic leaf /trial plant

Results

- Pylon - Reduced foliar nematodes
- Not significant level for growers
- Additional Pylon applications needed
- Trial 2 - Plants moved University GH

Trial 2: January - March 2002

Total 32 symptomatic Begonias

Four treatments (Eight plants/treatment):

- 3 Pylon, 1 untreated control

Pylon -Treatment rate - 0.78 ml /2 L water

Treated plants removed, returned after spray dried

- First spray - all plants receive 1,2, 3 Pylon applications
- Second spray (7 days) two, three
- Third spray (14 days) three



Postcount 30 days after 3rd spray

- (1) Pylon application - high count of live nematodes
- (2 & 3) Pylon applications - no live nematodes found
- Waiting on stats

