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A Comparative Trial of the single species *Sternernema feltiae* and SuperNemos (multispecies) for the control of Sciarid larvae in Nursery Stock.

Trials were set up at Fitzgerald Nurseries, Co Kilkenny, to measure the control of Sciarid larvae in pots. The pots (inoculated with Sciarid flies) were set out on four plots of 40 m². The plots were treated as follows:-

- 1- Koppert **SCIA-RID** nematodes (*S. feltiae*) @ 1.5 million/m². (Suppliers' recommended rate)
- 2- E-nema nematodes (*S. feltiae*) @ 1.5 million/m² (Suppliersø recommended rate)
- 3- Supernemos 2 @ 0.75 million/m²
- 4- Supernemos 2 @ 0.5 million/m²

An untreated control: : As an untreated control plot would constitute an unacceptable commercial risk to other crops in the Nursery, such a risk was ruled out at trial design stage.

The nematodes were applied at three week intervals, on 3/08/2012 (week 31), 24/08/2012 (week 34) and 14/09/2012 (week 37).

Sampling was conducted in weeks 34, 37 and 38 to assess the level of the control in each treatment (1-2 weeks after the nematodesø application).

Twenty one pots were selected randomly from each treatment and kept in a large plastic box. One yellow sticky trap was positioned on the top of each pot; all the boxes were secured with fly-proof lids and were incubated in the same glasshouse for 10 days. Then the sticky traps were removed and the adult flies which had stuck on the traps were counted for each treatment. The total number and the mean for each treatment are presented in Table1 below.

Summary of Results:

Table 1 shows that the 0.5 million/m² application rate of Supernemos achieved the same level of control as the 1½ million/m² application rate of the single species *S. feltiae*, whether from Koppert or from E-nema.

None of the products achieved significant control from their first application. The second and the third applications all achieved significant control.

Table 1 **Measurements.**

The Rate	The product	Week 34	Week37	Week38
1 ½ million/m ²	Scia-rid	391 = 18.6per pot	34 = 1.6 per pot	11 = 0.5 per pot
1 ½ million/m ²	E-nema	280 = 13.3 per pot	25 = 1.2 per pot	9 = 0.42 per pot
¾ million/m ²	Supernemos 2	399 = 19 per pot	34 = 1.6 per pot	37 = 1.7 per pot
½ million/m ²	Supernemos 2	400 = 19.07 per pot	33 = 1.5 per pot	18 = 0.85 per pot
Untreated control	Not permitted			

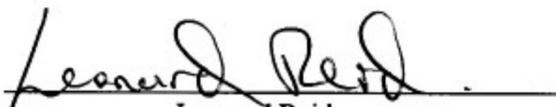
Historically such results have been assessed as follows

- A- Less than 3 larvae per pot = Very good control.
- B- 4-5 larvae per pot = Moderate control.
- C- More than 6 Sciarid larvae per pot = Poor control

Recommendation:-

To achieve full, viable control of Sciarid larvae, apply a minimum of three applications at three week intervals.

Signed:


Leonard Reid

Date: 12th October 2012