



*Always thinking ahead*



**Beneficial nematode use in outdoor crops**  
**Graeme Gowling**

# Biological products

## *Fungi*

- Entomopathogenic fungi, e.g. Metarhizium
- Mycorrhizae species



# Biological products

## Bacteria

### – Disease control

- Nogall; *Agrobacterium radiobacter*, to control crown gall
- *Bacillus subtilis* for disease control, Subtilex Integral

### – Inoculation

- Rhizobium





# Biological products

## Nematodes

Nemasys® M



Nemaslug®



BioVector



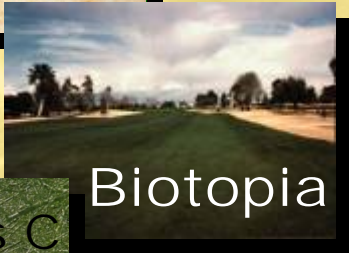
Nemasys® F



Millenium



Biotopia



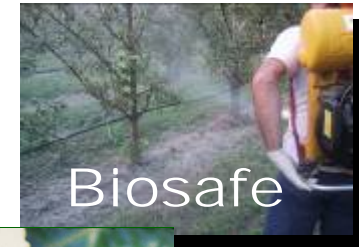
Nematac™ C



Nematac® S



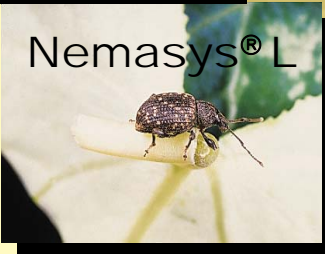
Biosafe



Nemasys C



Nemasys® L



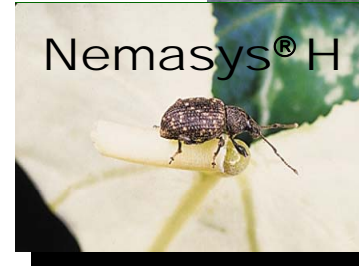
Nemasys® G



Nemasys®



Nemasys® H



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# Beneficial nematodes



- Resilient life stage
- Persistent in use
- Ability to mass produce



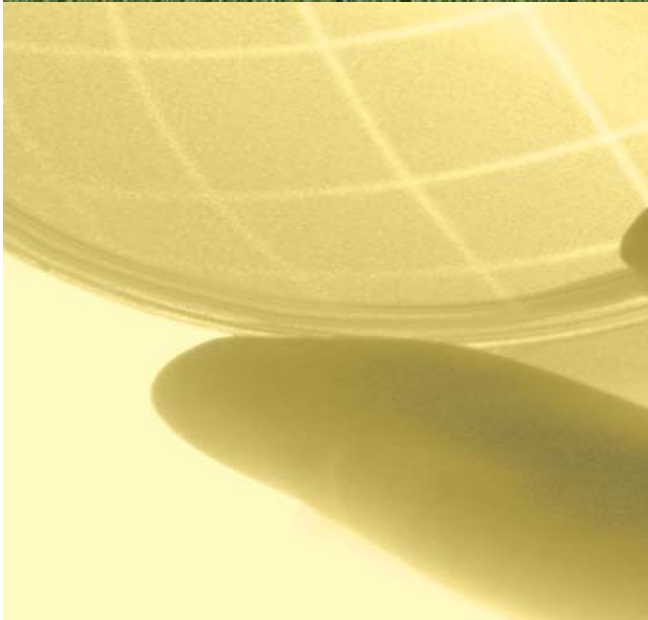


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# Outdoor crops?









# Traditional application





# Nemasys C and Codling moth control



# Nemasys C and Codling moth control



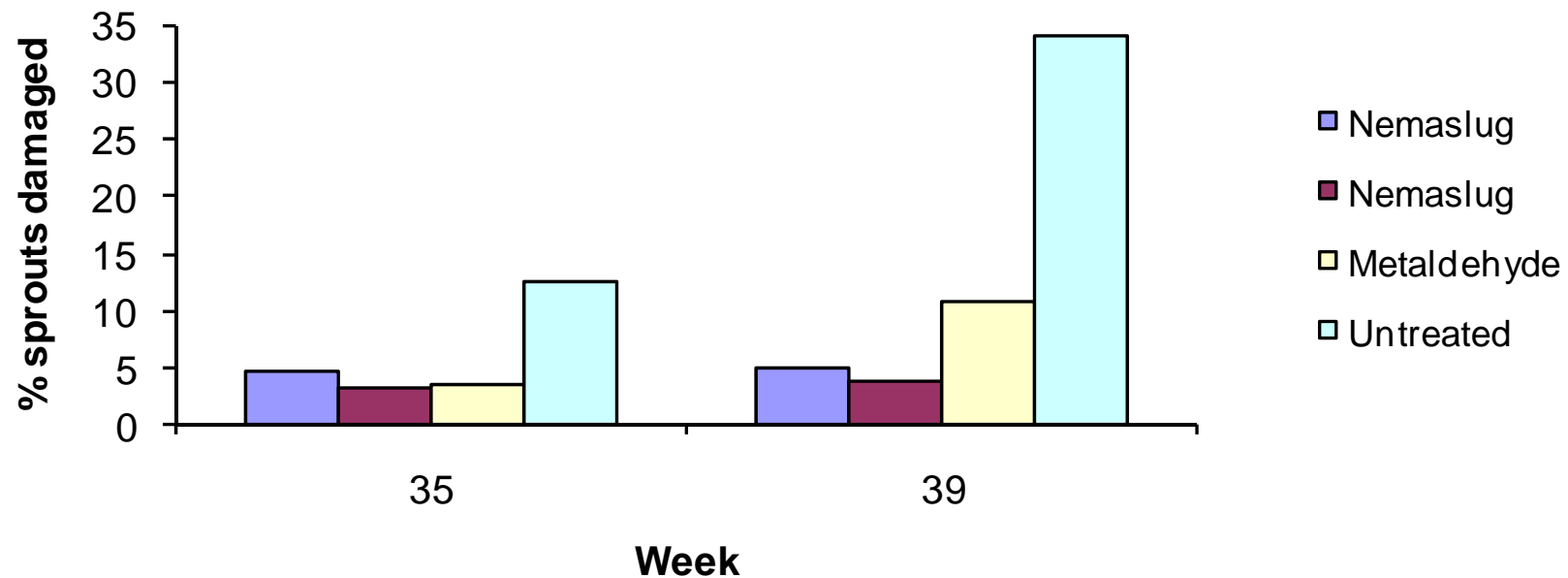
- Pest reduction **before** first flight and damage
- Use as part of a resistance management programme
- Complement to other strategies requiring good population management (mating disruption, virus)



# Nemaslug for slug control



# Nemaslug in Brussels sprouts



Trials conducted by PPO Lelystad, NL





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# Nemaslug application developments





# Other successes



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# A valuable tool



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**Thank you**