pcfruit
PROEFCENTRUM FRUITTEELT VZW

Zoology
Department

Services to companies: Laboratory trials – insects & mites

Apple blossom weevil (*Anthonomus pomorum*)
Dried residue toxicity

Technical question? Aims of the trial

Determination of the toxicity of dried residues of insecticides against *Anthonomus pomorum*:

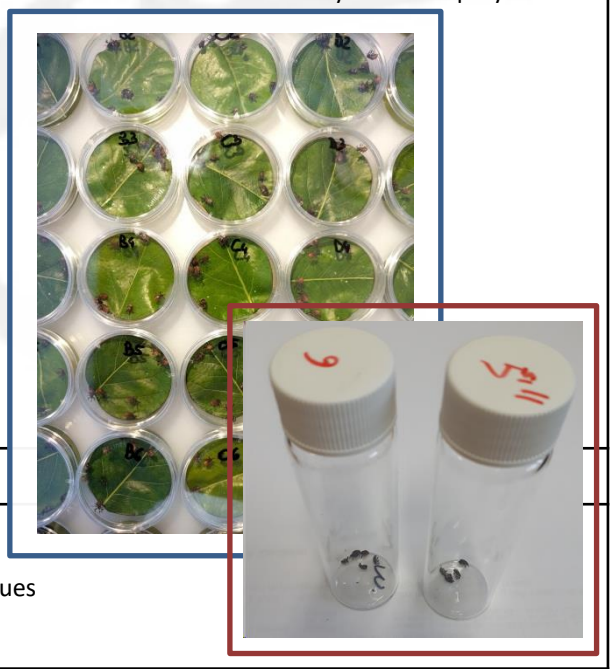
- Screening for insecticides
- Determination of adult mortality (adulticide action)
- Determination of the speed of adult mortality
- Determination of difference in sensibility between different populations

Trial summary

- *A. pomorum* weevils to be tested are obtained by collecting capped flower buds in the field and enabling them to pupate under controlled climate conditions in a plant growth chamber
- Apple leaf disks collected in untreated orchards are dipped in or sprayed with an insecticide solution by a Potter Spray Tower (Burkard Scientific), air dried and mounted on agar-agar in petri dishes

OR

- Insecticide coated glass vials after air drying on a roller shaker
    - Minimal 5 replicates per insecticide and concentration
    - Different test products at different concentrations
    - Positive and negative reference (check): purified water
- Transfer of the *A. pomorum* weevils on to the dried residue
- Assessments:
    - Number of living/dead/affected *A. pomorum*
    - Timing dependent on mode of insecticidal action
- Statistical analysis of outcomes



Trial output

- Data in xls/ARM + Report (M&M, graphs, summary, conclusions)
- Adulticide action: mortality rates in function of time of insecticide residues
- Screening of interesting compounds

- Certified and (inter)nationally recognized centre of excellence in fruit research
- 75 years of experience and expertise
- GEP accredited
- Highly valued contractor for numerous product developments the past 75 years

Interested? Please do not hesitate to contact us:

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