

Services to companies: Semi field trials

Rainfastness trial

Technical question? Aims of the trial

The residual activity and efficacy of crop protection products can be significantly affected by rainfall occurring after an application. Therefore, rainfastness (=the crop protection product's ability to withstand rainfall), is an important factor affecting the efficacy of foliar-applied crop protection products.

- What is the rainfastness of the test product(s)?
- Can the rainfastness be improved? (different formulation, different additives/adjuvants)?
- What is the rainfastness of the test product compared to reference products?

The degree of rainfastness is highly variable. A crop protection product is considered rainfast after application, if it has adequately dried or has been absorbed by plant tissues so that it will still be effective after rainfall or irrigation.

Trial summary

- Trials executed in our in house developed rainfall simulator. This construction consists of downward-oriented specific nozzles producing a drop-size distribution comparable to that of natural rainfall (Chapman curve), creating a standardized uniform natural rainfall.
- Trials on small (potted) fruit trees/shrubs/plants (e.g. strawberries)
- Natural occurring or inoculated pest populations (allowing for testing preventive as well as curative activity of test products)
- Treatments: Applications of (calibrated) dose rates (backpack sprayer/tower sprayer/hand sprayer)
 - Minimal 4 replicates

Application of test product(s) (+ reference product + untreated check) followed by short drying period (duration depending on trial details)

- Exposure to simulated rainfall
 - half of the trial plots rained/other half not (control)
 - specific intensity (e.g. 22,5 mm rain in 30 min)
- Assessments (1-x Days After Application, DAT)
 - In function of trial aim
 - presence of residue(s) or biological activity on pest
- Statistical analysis of outcomes

Trial output

- Regular trial/results updates
- Data in xls/ARM/docx
- Report (trial details, graphs, summary, conclusions)

• 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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