



Application Technology in Citrus - Course Program 5 October 2023

CRI, Eastern Cape

09h30 – 10h00

Tea & Coffee

10h00 – 10h45:

1. Introduction
2. The basic principles of Application Technology in Orchards
3. Droplet Spectrum
 - 3.1 Droplet Formation
 - 3.2 Droplet Size
 - 3.3 Droplet Spectrum characteristics
 - 3.4 Terminal velocity of droplets
 - 3.5 Droplet size and target impact
 - 3.6 Droplet size and target penetration
 - 3.7 Optimized droplet spectrum selection
4. Target specific requirements

10h45 – 11h30:

5. What is Spray Deposition Efficiency?

11h30 – 12h00: TEABREAK

12h00 – 13h00:

6. Spray volume required
7. Air Momentum requirements
 - 7.1 Air Velocity (m/s)
 - 7.2 Air Volume (cub m/h)
8. Critical Sprayer Specifications and Calibration Equipment required

13h00 – 14h00: LUNCH

14h00 – 15h30:

9. Sprayer set up
 - 9.1 “Drench” applications aimed at tree center branches in CITRUS (Red Scale & Mealybug.)
 - 9.2 “Full cover” sprays used in Citrus Black Spot (CBS)
 - 9.3 “Medium & Light cover” sprays used in Citrus.

15h30 – 16h00:

10. Timing of Applications and Turn-around time.