

TRAINING ON ANTAM STANDARD CODE For TESTING OF KNAPSACK MISTERS CUM DUSTERS

PART 2 : Plant Protection Spray Application Techniques

16 - 28 October 2016, Nanjing China

**2nd Training of Trainers on ANTAM Codes
Organized by ANTAM and CAMTC**

Plant Protection Spray Application Techniques

JP Douzals

- Aerial sprayers (Fixed wings, helicopter)

- + High Productivity (large surface – less time)
- Cost, maintenance, logistics
- Bystanders, residents

Reference standards :

EN ISO 16119-5 (new sprayers)

EN ISO 16 122-5 (sprayers in use)

- Unmanned Aerial Vehicle (mono or multi rotor)



- Boom sprayers
- + Uniform application
- Cost, min field size

Reference standards

ISO 5682 – 1/2/3 : flow and boom distribution

EN ISO 16119 1-2 : Specifications for new sprayers

EN ISO 16 122 1-2 : Specification for sprayers in use



- Bush and tree crop sprayers

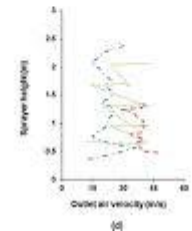
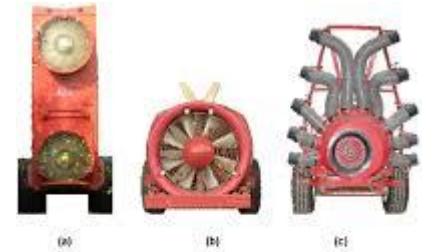
- + long distance spraying
- Drift



Reference standards

EN ISO 16119 3 : Specifications for new sprayers

EN ISO 16 122 3 : Specification for sprayers in use



- Lance & gun sprayers
- + long distance spraying
- Dosage



- Portable sprayers : Handheld

Maintained pressure/Lance

In general not a professional use

No reference standard on specifications and test methods



- Portable sprayers : Knapsack lever operated

Lever operated
Pressure regulator

Reference standards
ISO 19932-1: safety requirements
ISO 19932-2: test methods



- Portable sprayers : Knapsack motorized sprayers (Mister cu Duster)

Electrical or petrol engine driven
 Air pressure driven
 Mister and/or duster
 Optional boom or rotary CDA nozzle

Reference standard
 ISO 10988: test methods and performance limits



- Fixed and semi-mobile sprayers : green houses

Electrical or petrol engine driven

Air pressure driven

Mister and/or duster

Reference standard

EN ISO 16119-4: new sprayers

EN ISO 16122-4: sprayers in use



- Granulators, slug pellet applicators and dusters



- Granulators, slug pellet applicators and dusters



- Train sprayers

No reference standard



- Other pesticide application equipments

Soil disinfection

Seed coating

