



Better Training for Safer Food *Initiative*

Case study (Lecture 10):

***EOS – Environmentally
Optimised Sprayer***

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**Participants will be divided in two groups
to practice with the EOS software on two
real sprayers**

Field crop sprayer

Air-assisted sprayer



European
Commission

**Task of each
group:**
To fill in the EOS
questionnaire
taking into
account the
technical
features of each
sprayer

Select your language: **english**
Guide
Select the sprayer type: **Orchard / Wine Sprayer**
Handbook

Inside contamination 0 % Outside contamination 0 % Filling 0 % Spray losses including drift 0 % Remnants 0 % Evaluation results 0 %

Internal cleaning of complete sprayer in the field

Rinse tank

- No rinse tank present
- Undersized (not sufficient for complete internal cleaning in the field)
- Standard capacity
- Oversized 20% above standard (to allow internal and external cleaning in the field)

Cleaning system >>> Shunt device (system of two 3 way valves enabling to rinse separately the main tank and the sprayer hydraulic circuit)

- Not available
- Available

Cleaning system >>> Rinse water induction

- No rinse water available
- Take over the rinsing water by gravity without rinse nozzles, manually controlled
- Take over the rinsing water by gravity without rinse nozzles, remote controlled
- Uptake the rinsing water by the pump using a 3 way valve, without rinse nozzles, manually controlled
- Uptake the rinsing water by the pump using a 3 way valve, with rinse nozzles, manually controlled
- Uptake the rinsing water by the pump using a 3 way valve, remote control for automatic dilution of the spray residues in the bottom of the tank (tank residual volumes). No control of the volume of clean water used
- Uptake over the rinsing water by the pump using a 3 way valve, remote control for automatic dilution of the spray residues in the bottom of the tank (tank residual volumes). Control of the volume of clean water used
- Stepwise cleaning system
- Continuous cleaning system using a separate pump

Cleaning system >>> Rinse nozzle management

- No rinse nozzle available
- No rinse nozzle available, use of spray lance
- Rinse nozzles

Spray tank >> Design

- Tank with irregular shape, dead areas and angles
- Tank with partly irregular shape

Group A: field crop sprayer

Use the Instruction handbook and ENAMA/ ENTAM test report 05/147 (downloading through www.enama.it) reporting all technical features of the sprayer to examine through EOS:

- Internal cleaning
- External cleaning
- Filling
- Spray losses including drift
- Remnants

CAFFINI – STANDARD FOX


Ente Nazionale
Meccanizzazione Agricola


ENTAM

ENTAM - Test Report



Sprayer type:
Trade mark:
Model:

Mounted Field Crop Sprayer
CAFFINI
Standard Fox 1200/18

Manufacturer:
Caffini spa
Via Marconi, 2
I - 37050 Palù (VR)

Test report: 05/147
May 2008

Group B: air-assisted sprayer

Use the Instruction handbook and ENAMA/ENTAM test report 05/132 (downloading through www.enama.it) reporting all technical features of the sprayer to examine through EOS:

- Internal cleaning
- External cleaning
- Filling
- Spray losses including drift
- Remnants



Sprayer type:
Trade mark:
Model:

Trailed Air-assisted Sprayer
CAFFINI
Synthesis 600, 800

Manufacturer:
CAFFINI spa
Via Marconi, 2
Palù (VR) - Italy

Test report: 05/132
March 2007

**Let's start practice the EOS
software.....**

www.topps-eos.org



Thank you for your attention.

**Better Training for Safer Food
BTSF**

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