

Table of Contents

Preface Ganzelmeier, H.	8
Summary Ganzelmeier, H.	10
Acknowledgement	12
Opening Ganzelmeier, H.	13
Welcoming addresses Scartezzini, H. Santer, M.	16
Introduction to the Workshop Ganzelmeier, H.	18
<hr/>	
Round Table	
<hr/>	
Directive 2009/128/EC on the sustainable use of pesticides Rotteveel, A.	21
National Action Plan on sustainable use of plant protection products in Germany Freier, B.; Hommel, B.	28
15 years of sprayer inspections in the Netherlands: Benefits for farmers and society Van Wenum, J.	39
Experiences with and benefits of the inspection of air-assisted sprayers from the fruit- and winegrowers' point of view Waldner, W.; Knoll, M.	44
Actual survey on the actions of the countries in Europe to implement the inspection system of sprayers concerning the Directive 2009/128/EC Wehmann, H.-J.	50

Session 1: Inspection at regular intervals – Inspection of new equipment

Introduction paper 59
 Ganzelmeier, H.; Gil, E.

The official procedure for mandatory inspection of sprayers in use in Spain. How to deal with regional autonomous authorities. 67
 Gil, E.; Montemayor, V.; Gràcia, F.

How to implement a mandatory inspection in accordance with European directives: The example of certified workshops 73
 Polvêche, V.

Inspection of new sprayers 79
 Von Bargaen, F.

Session 2: Member States may apply different timetables and inspection intervals with exceptions following a risk assessment and exempt handheld pesticide application equipment or knapsack sprayers

Introduction paper 82
 Huyghebaert, B.; Bjugstad, N.

The trials on the influence of knapsack sprayer technical condition on operator exposure as an input to the risk assessment for human health 86
 Godyń, A.; Doruchowski, G.; Hołownicki, R.; Świechowski, W.; Ludwicki, J. K.; Wiatrowska, B.; Bankowski, R.

New regulation concerning inspection intervals and exceptions of pesticide application equipment 93
 Harasta P.

Risk assessment for human health and the environment - SPISE Working Group - Proposal - 94
 Ganzelmeier, H.

Session 3: The inspections shall verify that pesticide application equipment satisfies the relevant requirements

Introduction paper **100**
Douzals, J.P.; Polvêche, V.

Development of harmonised standards on environment for new sprayers **103**
J.-C. Rousseau

Sprayer tank agitation check: A proposal for a simple instrumental evaluation **106**
Balsari, P.; Tamagnone, M.; Allochis, D.; Marucco, P.; Bozzer, C.

Inspection method for spray rate controllers in Flanders (Belgium) **117**
Declercq, J.; Nuyttens, D.

Evening program

Low-loss spraying **122**
Knoll, M.; Lind, K.; Triloff, P.

Low-Loss-Spray-Application - The Scientific Basis **127**
Triloff, P.; Knoll, M.; Lind, K.; Herbst, E.; Kleisinger, S.

Towards integration of inspection procedures, calibration and drift reducing devices for an efficient use of pesticides and reduction of application impact **135**
Bondesan, D.; Rizzi, C.; Ianes, P.; Angeli, G.; Bassi, R.; Dalpiaz, A.; Ioriatti, C.

Calibration of orchard sprayers – the parameters and methods **140**
Doruchowski, G.; Hołownicki, R.; Godyń, A.; Świechowski, W.

Session 4: Member States shall establish certificate systems for mutual recognition of the certificates

Introducton paper Kole, J.; Ganzelmeier, H.	145
Authorisation of inspection facilities and workshops in North Rhine Westphalia Kramer, H.	151
A proposal for an EU (SPISE) database of the licensed sprayers inspectors and inspection centres Oggero, G.; Balsari, P.; Allochis, D.; Marucco, P.; Liberatori, S.; Limongelli, R.	154

Session 5: Training

Training of sprayer inspectors Andersen, P. G.; Nilsson, E.	158
Sprayer calibration training – concept and performance Doruchowski, G.; Hołownicki, R.; Godyń, A.; Świechowski, W.	166
The necessity of a harmonized procedure for sprayers inspectors training: the Italian activity Balsari, P.; Allochis, D.; Oggero, G.; Marucco, P.; Liberatori, S.; Limongelli, R.	172
Training of inspectors for the periodic inspection of spraying equipment in a system of authorised mechanic workshops Koch, H.	177

Session 6: Miscellaneous

An overview of the defects on tested orchard sprayers in Belgium Declercq, J.; Huyghebaert, B.; Nuyttens, D.	180
Assessment of nozzle flow rate measurement methods for the inspection of sprayers in use Solanelles, F.; Tarrado, A.; Camp, F.; Gràcia, F.	186
Uniform cross distribution of double flat spray nozzles may be affected by the design of the sprayer Heinkel, R.; Herbst, E.	191

Closing Session

Posters

A new test-bench for the inspection and the adjustment of the sprayers employed in the mediterranea tree cultures	201
Pascuzzi S.; Guarella A.	
Implementation of SUD in the Czech Republic – right or wrong way for inspection of pesticide application equipment?	208
Harasta P.	
Outlook of the inspection of sprayers in Province of Trento	209
Bondesan, D.; Ianes, P.; Rizzi, C.; Angeli, G.; Canestrini, S.; Dalpiaz, A.	
Portuguese sprayers inspections: issues to overcome	213
Nunes, P.; Moreira, J.F.; Martins, M.C.	
Proposal of an inspection methodology for pneumatic drills	221
Pochi, D.; Biocca, M.; Fanigliulo, R.	
Technical solutions to reduce drift of pesticides in apple orchards of Trentino	224
Bondesan, D.; Rizzi, C.; Giuliani, G.; Angeli, G.; Ioriatti, C.	
Testing device for a complex measurement of the performances nozzles	228
Józef Sawa; Bruno Huyghebaert; Stanisław Parafiniuk	
Test procedure for drift reducing equipment	234
Herbst, A.; Osteroth, H.-J.; Rautmann, D.	
E-mail addresses	243
Autorenverzeichnis	244