

Table of Contents

Preface	7
Round Table	
Status Quo of inspection in EU: the results of SPISE enquiry	9
<i>H.-J. Wehmann</i>	
Inspection system for in use pesticide application equipment in Greece. First three years of application	23
<i>G. Bourodimos^{1,2}, A. T. Balafoutis³, M. Giamouri¹, S. Fountas²</i>	
The inspection quality assurance: present situation and needs	31
<i>Jan Langenakens</i>	
The CEMA decal - promotion of the inspection of brand new sprayers	33
<i>Christoph Schulze Stentrop</i>	
The importance of sprayer inspections in the EU from a chemical industry perspective	37
<i>Manfred Roettel¹; Volker Laabs²; Steward Rutherford³</i>	
Session 1: Present experiences and challenges in inspections activities	
Present experiences and challenges in inspections activities in Serbia	45
<i>Aleksandar Sedlar¹, Vladimir Višacki¹, Rajko Bugarin¹, Petar Radić²</i>	
The Belgian experience with sprayer inspection activities and future challenges	52
<i>Johan Declercq¹, Guillaume Defays², Bruno Huyghebaert², David Nuyttens¹</i>	
Assessment of the sprayer inspection results in Catalonia	58
<i>Francesc Solanelles, Ferran Camp, Alba Fillat, Felip Gracia</i>	
Session 2: Common procedures for Pesticide Application Equipment (PAE) risk assessment and for the evaluation of environmental benefit of the inspection	
Advice for risk assessment concerning the inspection of pesticide application equipment in use according to article 8 (3) of Directive 2009/128/EC	65
<i>Bruno Huyghebaert¹ David Nuyttens² Marie Stas¹, Jens Karl Wegener³</i>	
An approach to fulfill art 8 of directive 2009/128: procedure of risk assessment for pesticide application equipment	80
<i>M. Stas¹, G. Defays¹, D. Nuyttens², O. Mostade¹, J. Declercq², I. Zwertvaegher², D. Dekeyser², B. Huyghebaert¹</i>	
Session 3: Harmonized test methods for PAE not included in ISO EN 16122 series	
The SPISE Advice: Main goal and the activities done by SPISE TWGs	86
<i>Paolo Balsari</i>	
The importance of a harmonized sprayers inspection: The SPISE manual	90
<i>JP Douzals¹, V Polveche² and Z. Czaczuk³</i>	
Advice for the functional inspection of the dusters	97
<i>Paolo Balsari (DISAFA, Italy) Paolo Marucco (DISAFA, Italy) Emilio Gil (UPC, Spain)</i>	
Berichte aus dem Julius Kühn-Institut 196	3

SPISE Advice of Periodical inspection Granulate application equipment	111
<i>Ian Forman⁽¹⁾, Jaco Kole⁽²⁾</i>	
Research of an appropriate inert compound to use as an alternative to the granules of the plant protection products in the inspections of microgranulators	118
<i>Marco Manzone, Davide Allochis, Paolo Balsari</i>	
SPISE Advice of the Periodical inspection of misting equipment	126
<i>Tom Bals⁽¹⁾, Jaco Kole⁽²⁾</i>	
Advice for the functional inspection of plot sprayers with compression tanks	130
<i>Eskil Nilsson (VISA VI, Sweden) Jaco Kole (SKL, The Netherlands)</i>	
SPISE Advice of the Periodical inspection of fixed and mobile Rotary atomizers pesticide application equipment for band application.	147
<i>Tom Bals⁽¹⁾ Jaco Kole⁽²⁾</i>	
The future demand for an inspection of more advanced features on pesticide application equipment	151
<i>Christoph Schulze Stentrop (HARDI International A/S)</i>	

Poster Session

INNOSETA – Innovative training and influence on the quality of inspections. An overview of training organization in EU	154
<i>Emilio Gil</i>	
Applicability evaluation of draft test protocol for functional inspection of solid fumigant applicators.	160
<i>Gianluca Oggero¹, Paolo Balsari¹, Andrea Minuto², Paolo Vinotti²</i>	
Requirements for plot trial equipment and how to control	167
<i>Reinhard Friessleben</i>	
The effect of the type of sprayer bodies on the obtained coefficient of variation of sprayed liquid deposition	171
<i>Stanisław Parafiniuk¹, Marek Milanowski¹, Witold Kowalik¹ Milan Koszel¹, Marek Kopacki²</i>	
Wireless flow-sensor to inspect spray rate controllers	176
<i>J. Declercq¹, E. Matthys¹, G. Defays², B. Huyghebaert², D. Nuyttens¹</i>	
New challenges about pesticide application equipment in Serbia: Usage of new nozzles types for better deposition and coverage.	181
<i>Višacki Vladimir¹, Sedlar Aleksandar¹, Bugarin Rajko¹, Radić Petar², Turan Jan¹, Ponjičan Ondrej¹, Ivanišević Mladen¹</i>	
Effect of air distribution and spray liquid distribution of a cross-flow fan orchard sprayer on spray deposition in fruit trees	186
<i>J.C. van de Zande, J.M.G.P. Michielsen, H. Stallinga, P. van Daltsen, M. Wenneker</i>	
Assessment of some measurement methods for the inspection of spray application equipment	193
<i>Francesc Solanelles, Ferran Camp, Alba Fillat, Felip Gracia</i>	
Sprayers inspection in Venetian Region: experiences, issues and future perspectives	198

Cristiano Baldoin

20% reduction of crop protection products in the five main grapes of Sardinia (Cannonau, Carignano, Cagnulari, Nuragus, Vermentino)	209
Homologation and inspection of spray drones in Switzerland	211

Thomas Anken

Session 3: Harmonized test methods for PAE not included in ISO EN 16122 series (continue)

The SPISE Advice for functional inspection of wiper applicator.	214
<i>Paolo Balsari¹, Gianluca Oggero¹, Jaco Kole²,</i>	
The SPISE Advice for functional inspection of seed treatment equipment	222
<i>Hans-Jürgen Osteroth¹ Eskil Nilsson²,</i>	
Advice for functional inspection of postharvest application equipment	231
<i>Francesc Solanelles</i>	

Session 4: Inspection quality: “Certification” of the Workshop activity (quality assurance) included the certification of devices/instruments used for the inspections

“Certification” of the Workshop activity (quality assurance) included the certification of devices used for the inspections	236
Quality assurance of the workshop activity - including test facilities	243
<i>Harald Kramer</i>	
Quality control of the workshops, the Danish approach	248
<i>Hans Henrik Pedersen¹, Bo Grubov¹, Anita Fjelsted², Jaco Kole¹</i>	
Self-inspection of sprayers and seed treatment machines in Poland – proposal of instruction manual	252
<i>Grzegorz Doruchowski, Artur Godyń, Ryszard Hołownicki, Waldemar Świechowski</i>	

Session 5: Additional Workshops activities including PAE adjustment

What to be considered when you buy a sprayer: the SPISE advice	259
<i>Emilio Gil¹ and Christoph Schulze-Stentrop²</i>	
Effect of sprayer boom curvature on spray distribution: test on spray distribution bench	263
<i>M. Stas¹, G. Defays¹, P. Bienfait¹, G. Dubois¹, A. Delooz J¹, O. Mostade¹</i>	
Sprayers adjustment at the workshop thanks to the use of a dedicate software	268
<i>Gianluca Oggero¹, Paolo Balsari¹, Fabrizio Stefano Gioelli¹, Luisa Cavargna Bontosi², Federico Spanna³</i>	
A test method to assess operator safety using Closed Transfer Systems	276
<i>Jens Karl Wegener, Matthias Kemmerling, Jan-Philip Pohl, Eckhard Immenroth</i>	

Session 6: Inspectors training harmonization and refreshment

Inspector’s training and influence on the quality of inspections. An overview of training organization in EU	282
<i>Emilio Gil</i>	

Spanish's experience on improving inspection of sprayers: official manual for ISO 16122 and ISO 16119	287
--	------------

Emilio Gil, Javier Campos and Paula Ortega

Excursion - the program of the 27th September 2018

Technical Visit to Epidaurus	292
-------------------------------------	------------

General

Scientific Committee	298
Organizing Committee	298
Sponsors	299