6th European Workshop on Standardised Procedure for the Inspection of Sprayers in Europe

- SPISE 6 Workshop -

September 13-15, 2016
BARCELONA, Spain
Status Quo of inspection in Europe:
The results of a SPISE enquiry

H.-J. Wehmann
### Example of Questionnaire:

**Inspection of Pesticide application equipment (PAE) in use - Survey in European countries**

<table>
<thead>
<tr>
<th></th>
<th>Horizontal boom sprayers</th>
<th>Sprayers for bush and field crops</th>
<th>Fixed and semi-mobile sprayers</th>
<th>Hot and cold foggers</th>
<th>PAE used for seed treatment</th>
<th>handheld sprayers and wipers</th>
<th>knapsack sprayers manual and motorized</th>
<th>spraying equipment mounted on trains</th>
<th>Dusters</th>
<th>Gran app.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Name of your Country</strong></td>
<td><strong>Germany</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Number of PAE in use</td>
<td>126.000</td>
<td>42.000</td>
<td>45.000</td>
<td>4.000</td>
<td>13.500</td>
<td>220.000</td>
<td>400.000</td>
<td>30</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Are these data on the basic of a register or estimated?</td>
<td>estimated</td>
<td>estimated</td>
<td>estimated</td>
<td>estimated</td>
<td>estimated</td>
<td>estimated</td>
<td>estimated</td>
<td>estimated</td>
<td>not applicable</td>
</tr>
<tr>
<td>4</td>
<td>Number of PAE inspected in the year 2013</td>
<td>53.991</td>
<td>14.553</td>
<td>no data available</td>
<td>no data available</td>
<td>first time to be inspected till 2020</td>
<td>exempted</td>
<td>exempted</td>
<td>no data available</td>
<td>not applicable</td>
</tr>
<tr>
<td>5</td>
<td>Number of PAE inspected in the year 2014</td>
<td>9453 (low amount due to modification of the interval from 2 to 3 years)</td>
<td>5208 (low amount due to modification of the interval from 2 to 3 years)</td>
<td>no data available</td>
<td>no data available</td>
<td>first time to be inspected till 2020</td>
<td>exempted</td>
<td>exempted</td>
<td>no data available</td>
<td>not applicable</td>
</tr>
<tr>
<td>6</td>
<td>Number of PAE inspected in the year 2015</td>
<td>69.784</td>
<td>19.363</td>
<td>no data available</td>
<td>no data available</td>
<td>first time to be inspected till 2020</td>
<td>exempted</td>
<td>exempted</td>
<td>no data available</td>
<td>not applicable</td>
</tr>
<tr>
<td>7</td>
<td>Average costs per inspection from ...</td>
<td>65 - 350 Euro</td>
<td>43 - 350 Euro</td>
<td>no data available</td>
<td>no data available</td>
<td>first time to be inspected till 2020</td>
<td>exempted</td>
<td>exempted</td>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>
Questionnaire regarding actual status of inspections of PAE (pesticide application equipment) in use (June 2016)

- Number of PAE in use?
- What kind of data basis?
- Number of PAE inspected in 2013 to 2015?
- Which is the basis for requirements for the inspection?
- After how many years the inspection must be repeated?
- After how many years of use the first inspection is scheduled?
- Do you see an importance (e.g. warranty) of inspections of brand new PAE?
- Where and in which quality new PAE should be inspected?
- Have you already demands on inspection of brand new PAE?
- Do you have a simplified inspection procedure for brand new PAE?
- Is the inspection of new PAE before delivering obligatory in your country?
- Which body/bodies is/are responsible for implementing the inspection?
- Number of current authorized workshops/official teams and inspectors?
- Is there already a certificate system of quality control established?
Are there definitions for a mutual recognition of inspections from other MS?

Is there a penalty present if the PAE-owner does not respect the deadline of Nov. 2016?

For which kind of PAE a SPISE advise is mostly needed?

Will your country secure that by November 26th, 2016 all intended PAE has been inspected at least once?

Where are/were the main problems during the introduction process?

Which question do you would like to ask the European Commission concerning the mandatory inspection of PAE in your country?
Survey 2016: Attending countries

Portugal
France
United Kingdom
Spain
Italy
Latvia
Poland
Hungary
Denmark
Romania
Greece
Turkey
Lithuania
Finland
Sweden
Norway
Ireland
The Netherlands
Belgium
Luxembourg
Germany
Czech Republic
Slovakia
Austria
Hungary
Romania
Serbia / Kosovo
Macedonia
Switzerland
Italy
Spain
Portugal

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Hans-Joachim Wehmann

SPISE 6, 13 to 15 September 2016 Barcelona
Number of sprayers in use (figures by estimation: 20, by register: 6)

Horizontal boom sprayers: 1,600,000
Sprayers for bush and tree crops: 900,000

For further kinds of PAE there are mostly no reliable data available.
Inspection interval in the Countries in Europe

- Austria
- Belgium
- Bulgaria
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Italy
- Latvia
- Lithuania
- Luxembourg
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Serbia
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- United Kingdom
- Sweden

Legend:
- ▲ 2011
- ▲ 2009
- ▲ 2006
- ▲ 2016
Yearly inspected field crop sprayers as percentage of yearly necessary inspections

- **0,00**%
- **20,00**%
- **40,00**%
- **60,00**%
- **80,00**%
- **100,00**%
- **120,00**%
- **140,00**%
- **160,00**%
- **180,00**%

- **2010**
- **2013**
- **2014**
- **2015**

**Countries:**
- Austria
- Belgium
- Czech Republic
- Denmark
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Italy
- Kosovo
- Latvia
- Lithuania
- Luxembourg
- Macedonia
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Serbia
- Slovakia
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom
Yearly inspected sprayers for bush and tree crops as percentage of yearly necessary inspections

- Austria
- Belgium
- Czech Republic
- Denmark
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Italy
- Kosovo
- Latvia
- Lithuania
- Luxembourg
- Macedonia
- Netherlands
- Norway
- Poland
- Portugal
- Romania
- Serbia
- Slovakia
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom
Yearly inspected sprayers for bush and tree crops as percentage of yearly necessary inspections

Some room for improvement
Inspection of brand new Pesticide Application Equipment

Do you see an importance of inspection of brand new PAE?
• Yes: 16
• No: 8

Where and in which quality new PAE should be inspected?
• At factory: 18
• At dealer: 14
• On farm or production place: 3

• By simplified procedure (no wear and tear should be considered): 11
• With full inspection protocol: 8
Inspection of brand new Pesticide Application Equipment

Do you have already demands on inspection of brand new PAE?
• Yes: 7
• No: 18

Do you have a simplified inspection procedure for brand new PAE?
• Yes: 2
• No: 23

Is the inspection of new PAE before delivering already obligatory in your country?
• Yes: 2
• No: 21
Brand new sprayers - Additional information from the contact persons:

against:
• No inspection as long as PAE are manufactured according ISO.
• The customers mostly trust the sellers.
• Customers assume that PAE is already tested by the manufacturer or dealer.

for:
• Customers absolutely demand inspected PAE. Best before delivery.
• IPM or other certificated systems need to have sprayer inspected.
• Pre-delivery inspection and test is already required by crop assurance companies.
• Known issues where some imported brand new PAE will not pass inspection acc. to ISO 16122.
Number of authorized workshops (official teams) / Number of authorized inspectors

- Existence of official database for authorized workshops

All in one:
About 3000 workshops (inspection sites) and about 6000 inspectors
Are there certification systems regarding the quality control of inspections?

No / in preparation
Yes, by national regulations
Yes, by ISO 17020
Are there definitions for a mutual recognition with other MS:

- **Yes**, as long as inspections follow Directive 2009/128/EC
- **No** / in preparation
- **Yes** Only with SKL (Netherlands)
Penalty if PAE – owner do not respect the deadline Nov. 2016?

- No / in preparation
- Prohibition of use
- Financial penalty (mostly on agricultural subsidies)
- Prohibition of use plus financial penalty (mostly on agricultural subsidies)
For which kind of PAE a SPISE Advice is mostly needed?

<table>
<thead>
<tr>
<th>PAE Type</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAE used for seed treatment</td>
<td>13</td>
</tr>
<tr>
<td>Hot and cold foggers (incl. LVM)</td>
<td>8</td>
</tr>
<tr>
<td>Spraying equipment mounted on...</td>
<td>7</td>
</tr>
<tr>
<td>Granular applicators</td>
<td>6</td>
</tr>
<tr>
<td>PAE for aerial use</td>
<td>6</td>
</tr>
<tr>
<td>Wipers (not hand held)</td>
<td>4</td>
</tr>
<tr>
<td>Dusters</td>
<td>3</td>
</tr>
<tr>
<td>Fixed and semi-mobile sprayers</td>
<td>3</td>
</tr>
<tr>
<td>Boom sprayers &lt; 3m</td>
<td>2</td>
</tr>
<tr>
<td>Irrigation systems used as PAE</td>
<td>2</td>
</tr>
<tr>
<td>New machinery with electronical...</td>
<td>2</td>
</tr>
<tr>
<td>Pneumatic sprayers (cannons)</td>
<td>2</td>
</tr>
<tr>
<td>PAE not used for spaying</td>
<td>2</td>
</tr>
</tbody>
</table>
Will your country secure that by 26.11.2016 all intended PAE has been inspected at least once?

The moment of truth…

[Map showing different countries with color coding indicating the inspection status: No, Not at full volume, Finalized risk assessment is still missing, Technical prerequisites are given, Yes, only marginal remnants, Yes, except brand new sprayers.]
Where are/were the main problems during the introduction process?

<table>
<thead>
<tr>
<th>Problem</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lack of standards/test methods</td>
<td>19</td>
</tr>
<tr>
<td>National Legislation too late or still missing?</td>
<td>14</td>
</tr>
<tr>
<td>Missing state support by money or consultation</td>
<td>7</td>
</tr>
<tr>
<td>Difficulties to find approved workshops/inspection teams</td>
<td>5</td>
</tr>
<tr>
<td>Disunity within federalism system</td>
<td>4</td>
</tr>
<tr>
<td>Still no suitable training of inspectors</td>
<td>4</td>
</tr>
</tbody>
</table>
Further problems during the introduction process (citations):

• “A lot of PAE types are not for field use. This fact was undervalued.”
• “We suffer from lack of experts.”
• “There is still a problem with defining the real existing in-use PAE.”
• “Farmers outcry because of the inspection costs.”
• “No possibility to apply for BTSF course since no MS.”
• “The workshops approved are not so well prepared to inspect the sprayers and to face the reality of the machinery.”
• “When we contact with farmer and stay with him to advise about the best solutions of calibration and attentions to have with the machinery we use to say that we get a friend for life…”
Further problems during the introduction process (citations):

• “A lot of PAE types are not for field use. This fact was undervalued.”
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Thank you for your attention!