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CEUREG FORUM XIII

Country Presentation to the Session IV

**„Actions by Institute of Plant Protection
against counterfeiting of plant protection products”**



ORGANIZATION OF QUALITY TESTING IN POLAND

MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT

NATIONAL PLANT PROTECTION AND SEED INSPECTION SERVICE



INSTITUTE OF PLANT PROTECTION – NATIONAL RESEARCH INSTITUTE

Multi-year national programme:

„CROP PROTECTION ACCOUNTING FOR FOOD SAFETY AND PREVENTION OF YIELD LOSSES AND HAZARDS TO HUMAN HEALTH, LIVESTOCK AND THE ENVIRONMENT”.

Task 2:

„Protection of people, animals and the environment against the adverse effects of pesticides, including food safety control”.

Task 2.4.:

„Quality analyses of active substances and plant protection products”.

Funding secured from the national budget for 2006-2010

ORGANIZATION OF QUALITY TESTING IN POLAND (cont.'d)

Task 2.4 Contractors

1) National Plant Protection and Seed Inspection Service

SCOPE:

- draft plans
- collect control samples
- provide substantive supervision of the task
- receive and approve reports

2) Institute of Plant Protection – National Research Institute Sońnicowice Branch

SCOPE:

- conduct analytic testing
- perform analyses of the results
- issue certificates of analysis
- draft detailed annual reports
- create databases
- provide IT services
- prepare analyses for policies regarding sales and distribution of plant protection products

EXECUTIVE CAPABILITIES WITH RESPECT TO QUALITY TESTING

CHEMICAL TESTS:

- active substance content testing
- identification and determination of impurities
- content testing (identification of ingredients)
- identity testing
- physical and chemical properties
- 5-batch analyses of technical concentrates, according to GLP

Physical and chemical methods:GC, HPLC-UV-DAD-RR, TLC-SCAN, GC-MS, LC-MS

BIOLOGICAL TESTS:

- laboratory and plot efficacy studies of herbicides, insecticides, fungicides
- greenhouse and plot phytotoxicity testing

METHODS:

producer's methods, FAO-WHO specifications, CIPAC, AOAC standard international methods, own method, scientific literature

COUNTERFEIT PLANT PROTECTION PRODUCTS

Orders for testing:

- Plant Protection and Seed Inspection Service as part of the official pesticide quality control**
- Institutions participating in distribution and use of pesticides**
 - **producers**
 - **importers**
 - **wholesalers**
 - **retailers**
 - **farm owners**
 - **other agricultural institutions**
- Law enforcement**
 - **police**
 - **Prosecutor's office**
- Other state offices**

NUMBER OF PPP SAMPLES TESTED AT IPP-NRI SOŚNICOWICE BRANCH IN CONNECTION WITH COUNTERFEITING

2003	2004	2005	2006	2007
10	11	12	13	13

Total 2003-2007: 59

2008	
89	
confirmed counterfeit	positive results
74	15

60 samples ordered by Inspection

29 samples ordered by other institutions

2009	
48	
confirmed counterfeit	positive results
22	9

17 still being processed

27 samples ordered by Inspection

21 samples ordered by other institutions



CAUSES FOR DETERMINING COUNTERFEITING

- product different from a plant protection product
- counterfeit, unauthentic label
- label in a foreign language or no label
- dilutions of a plant protection product
- product different than label description
- different profile of impurities than a standard product
- formulation composition different from a standard product

NEED FOR MORE EFFECTIVE ACTIONS

- ❑ **conduct intense information campaign for law enforcement with regard to the specificity of counterfeit pesticides and proper classification of the violation**
- ❑ **quick access of the institutions in charge of control to the original pesticides in order to use them as reference products in identity testing**
- ❑ **create a database with labels and types of containers for the most commonly counterfeited products**
- ❑ **exchange of information between the offices in charge of control in countries collaborating against counterfeiting**
- ❑ **improvement in communication between the interested parties – creation of an internet forum?**