Annual CIPAC/FAO/WHO Report Form on the Quality Control of Pesticides

Country/Name and Address of the Institution (contact person):

Czech Republic

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1 - Essential Information

Reporting period/year:	**Number of samples analyzed (1)**	**Number of non-compliance (2)**	**Uses (3)** (optional)
2010	44	12	Agricultural use: 44
			Public Health use: -
			Home and Garden use: included in total,
			Other uses (please specify):

(1) Any sample, including those of active inspection and registration control samples.

(2) Non-compliance with FAO/WHO or national pesticide specifications.

The reason of non-compliance:
1 sample – lower active ingredient content
11 samples – differences in fyz-chem properties with FAO or national pesticide specifications

(3) If possible, please indicate the use/destination of the pesticide analyzed If the pesticide has various uses, it should be included only in one category and should be explained under item 2 (comments).

2 - Any comments and/or background information

All 44 samples (28 active ingredients) were analyzed for active ingredient content and their relevant impurities content before and after storage stability test at 54ºC, 40ºC or 35ºC. Samples of EC formulations were analyzed for xylene. All samples represent 7 types of formulations. Physical and chemical properties of samples were tested according to recommendation in FAO specification or national pesticides specification (840 laboratory tests).

3. State Phytosanitary Administration has participated in following collaborative and PT trials

a) CIPAC Activities:
- Flumioxazin
- Piperonyl Butoxide
- Pyrimiphos-methyl
- MT 73.1 Total Hardness of Water

- Solution stability of water soluble tablets (ST)

b) AAPCO Activities
Successful participation in:
- azoxystrobine
- propiconazole
- atrazine

c) AFSCA Activities - Proficiency testing of physicochemical properties of pesticides formulations
Successful participation in all tested parameters in SC formulation:
- Active ingredient content - alpha-cypermethrin
- Density (CIPAC MT 3.3.1 and 3.3.2.) ;
- pH of neat formulation and 1% dilution (CIPAC MT 75.3) ;
- Foaming properties (CIPAC MT 47.2)
- Wet sieve test (CIPAC MT 185) ;
- Suspensibility (CIPAC MT 184)

4. – Accreditation of laboratory
Department of Laboratory of Pesticides was accredited according to EN ISO/IEC 17025:2005 by Czech accreditation body in May 2008 and received **Certificate of Accreditation.**
In 2010 laboratory enlarged the number (15) of accredited method to 21.

New accredited methods in 2010:
- Persistent foaming by visual method according to CIPAC MT 47.2
- Visual determination of emulsion stability EC and EW formulations according to CIPAC MT 36.3
- Volumetric determination of acidity or alkalinity of formulations according to CIPAC MT 191
- Spectrophotometric determination of free chlorophenols as 2,4-dichlorophenol or as 4-chloro-2-methylphenol according to CIPAC MT 69.1-69.6
- Determination of active ingredient Glyphosate in Plant Protection Products by HPLC/UV method according to CIPAC 284/SL/(M)/-
- Determination of 1,2- dichloroethane in Plant Protection Products by GC-FID method