

Efficacy studies of plant protection products – Polish experiences

Tadeusz Praczyk

Institute of Plant Protection

National Research Institute, Poznan, Poland

Polish market of plant protection products in 2008

Products	Sale (in tonne)
• Insecticides	3012
• Herbicides	31766
• Fungicides	13217
• PGRs	2535
• Others	2815
Total	53343

Number of plant protection products authorized in Poland (October 2009)

• Fungicides	257
• Insecticides	112
• Herbicides	316
• PGRs	51
• Others	117
<hr/>	
Total	853

Requirements for number of registration trials in Poland

Before 2004

- 4 trials were needed for products containing new active substance
- 2 trials were needed for products with existing active ingredient
- No special trials for phytotoxicity

After 2004

- 8 trials are needed for products containing new active ingredient
- 4 trials are needed for products with existing active ingredient
- Special trials for phytotoxicity of herbicides

Recognized Units in Poland

Before the joint to EU (May, 2004)

- state units (10)
- no private units

Currently

- state units (21)
- private units (9)

Tasks to perform after the joint to EU

- GEP system in registration studies
- EPPO standards
- New software - Agriculture Research Manager (ARM)

ARM software

- 2005 – first ARM licence
- 2006-2008 – purchase of 10 licences and intensive training of all ARM users

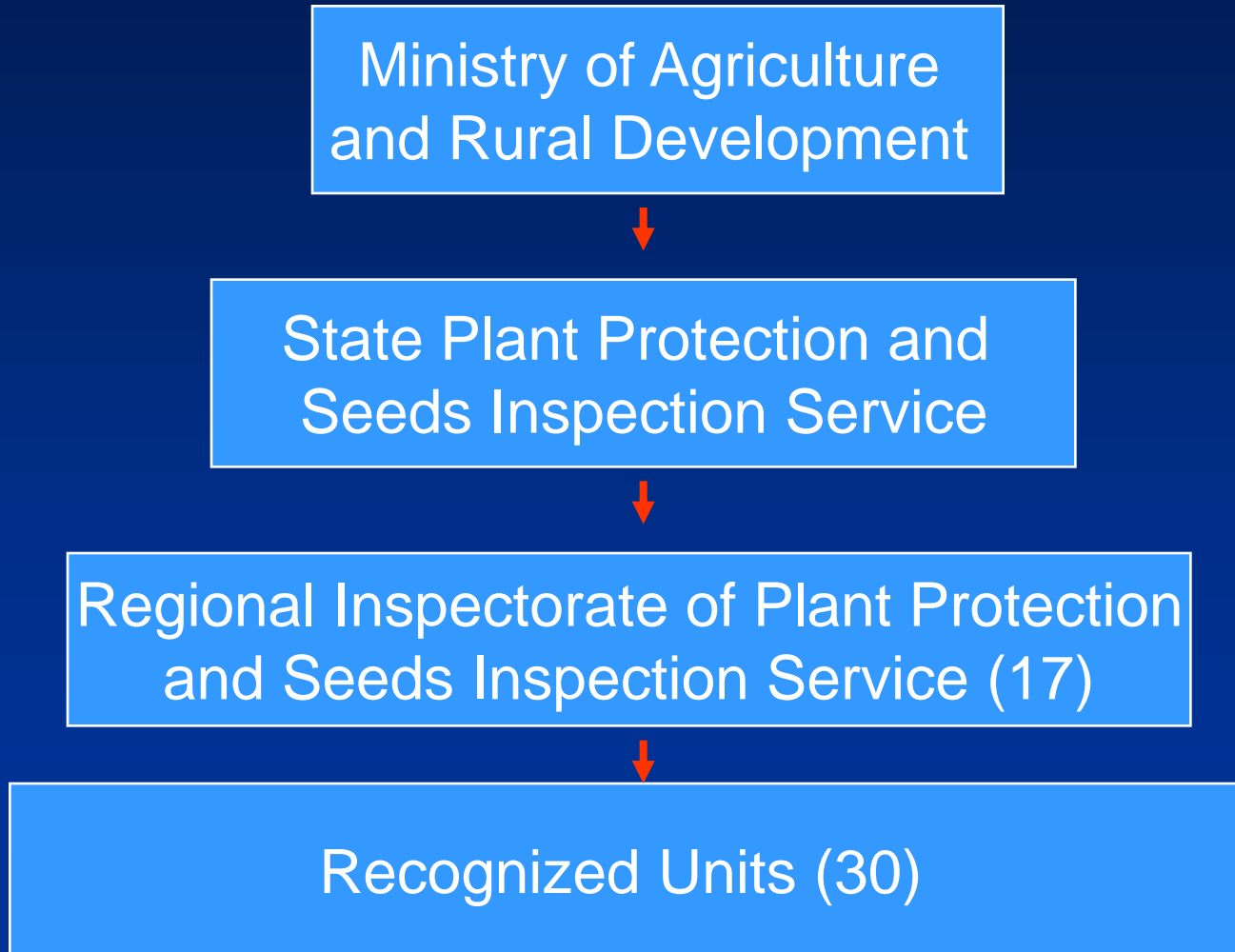


ARM - current situation at Institute of Plant Protection

- Many registration trials are conducted using ARM software
- Each principal investigator (study director) has his ARM licence
- Training of ARM users is still needed

Some our Clients have their own ARM setting profile – difficulties in our job

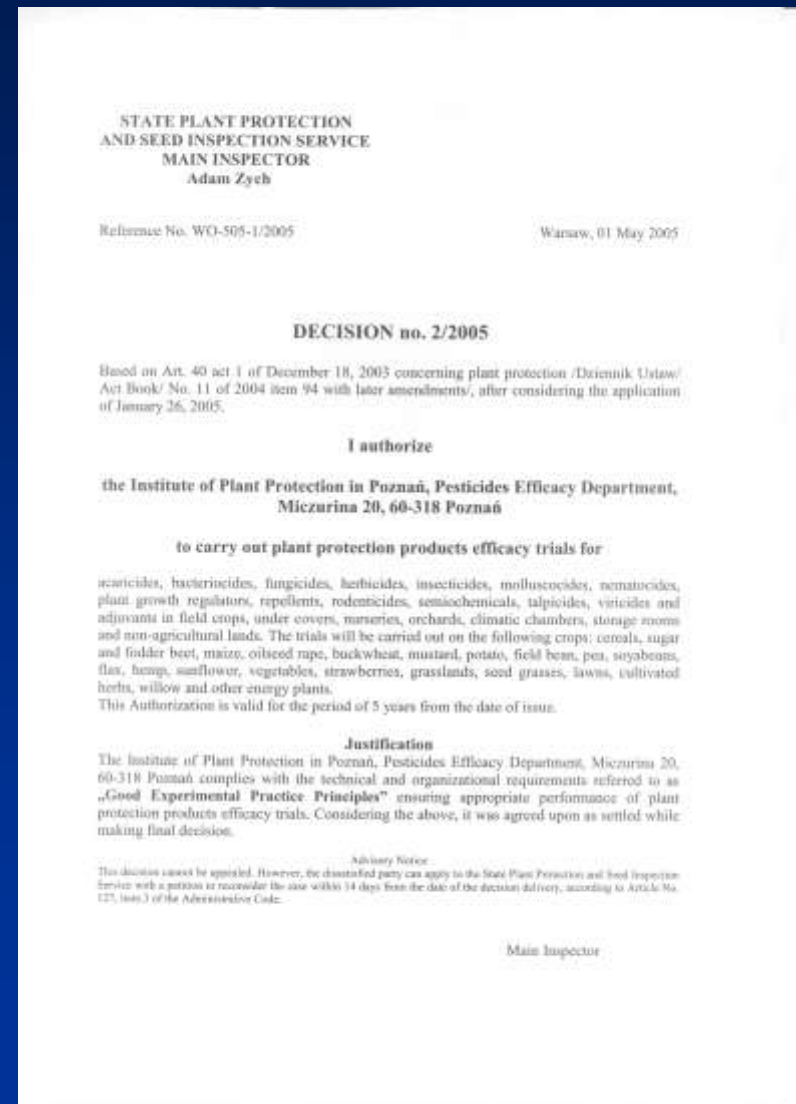
Organization chart of GEP system in Poland



Institute of Plant Protection

- 2 GEP Certificates (Poznan and Sosnicowice Branch)
- 1 Accreditation Certificate (Sosnicowice Branch)

Quality systems – official approvals of Institute of Plant Protection



Institute of Plant Protection – extent of approval in registration studies

- All types of plant protection products (acaricides, bacteriocides, fungicides, herbicides, insecticides, molluscocides, nematocides, plant growth regulators, repellents, rodenticides, semiochemicals, talpicides, viricides and adjuvants)
- Crops: cereals, sugar and fodder beet, maize, oilseed rape, buckwheat, mustard, potato, field bean, pea, soyabeans, flax, hemp, sunflower, vegetables, strawberries, grasslands, seed grasses, lawns, cultivated herbs, willow and other energy plants

642 registration trials in 2009

Laboratory facilities

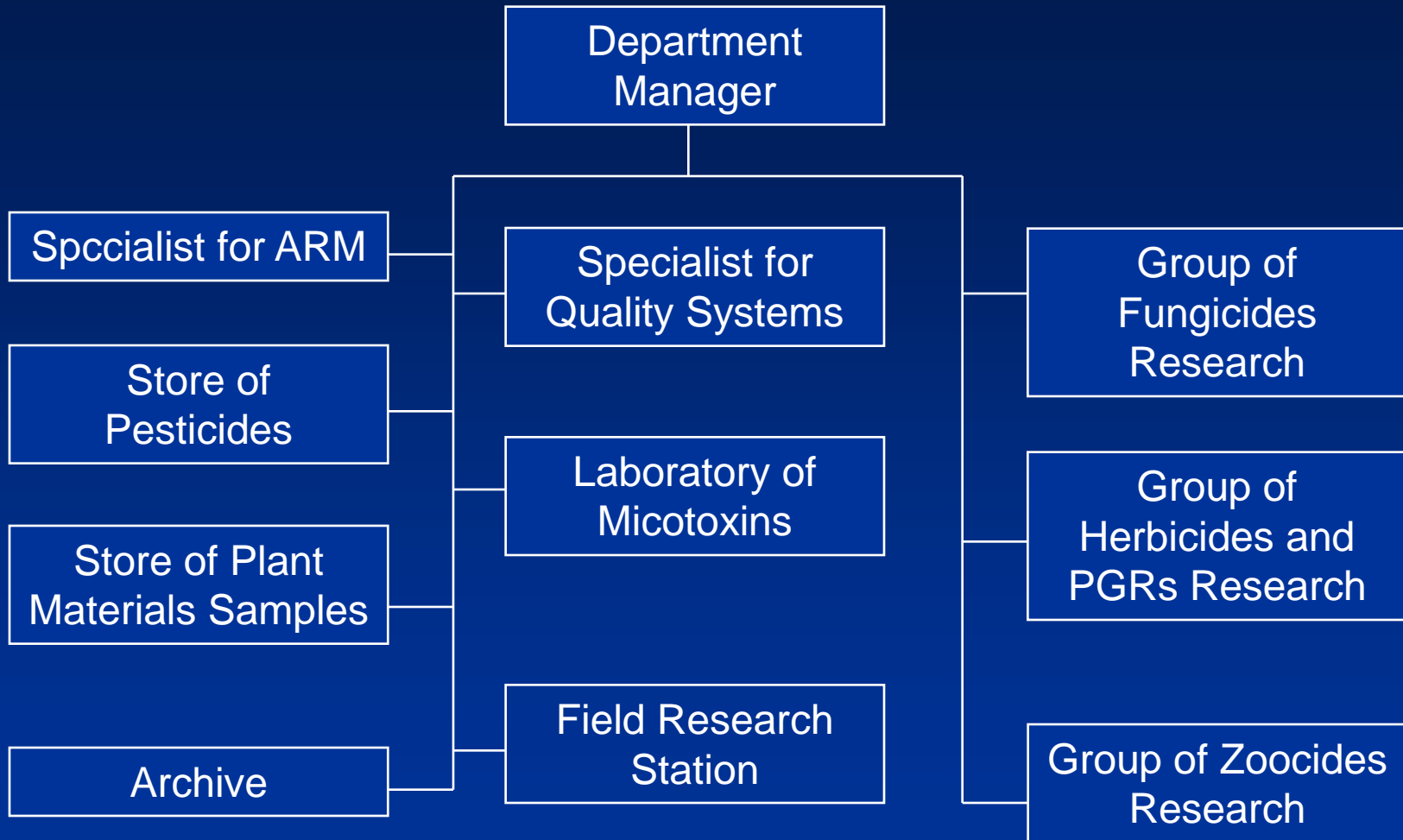
Artificial inoculation in fields

- *Fusarium spp.*
- *Sclerotinia sclerotiorum*
- *Tilletia caries* and *T. laevis*
- *Ustilago nuda*
- *Pyrenophora graminea*
- *Urocystis occulta*
- *Microdochium nivale*
- *Ustilago maydis*
- *Sphacelotheca reiliana*

Mycotoxins analyses



Organization chart of Pesticide Efficacy Department



(30 employees)

Field Research Station in Winna Góra (50 km south of Poznań)



Technical equipment of Field Research Station in Winna Góra



Herbicide efficacy trials in sugar beet at Field Research Station in Winna Góra



Phytotoxicity trial with herbicides in winter wheat at Field Research Station in Winna Góra

