PÕLLUMAJANDUSUURINGUTE KESKUS

AGRICULTURAL RESEARCH CENTRE

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Laboratory of Plant Health and Microbiology

Head of laboratory and quality-manager (molecular-biologist)

Plant Health Sector

Head of sector, 6 chief-specialists, 1 specialist in charge and 2 specialists

- Bacteriology
- Virology
- Nematology
- Entomology
- Mycology
- Molecular biology

Microbiology Sector

There are: head of sector, 2 chief-specialists, 2 specialists in charge

The general *Erwinia amylovora* situation in Estonia

- Surveys done each year, but until 2011 - no findings
- In 2011 – "positive" findings of *Erwinia amylovora*, but it was not possible to get a pure culture and perform pathogenisity test
- Year 2012 was very crazy in Estonia!
- In 2013 we have done a big amount of samples. There were no positive findings.

The general *Erwinia amylovora* situation in Estonia

Year	Samples in total	Positive samples total	Remarks
2007	128	0	520274 trees
2008	124	0	550393 trees
2009	130	0	860000 trees
2010	121	0	920000 trees
2011	126	0 (3?)	900000 trees
2012	268	20	75 samples suspicious in IF
2013	332	0 (2?)	6 samples were sent to Latvia for confirmation

Risk management, methods …

- Laboratory is working according to EPPO Diagnostic protocol PM 7/20 (2)*

- Samples are taken by Agricultural Board

- Before first screening was done by IF and if positive/suspicious – PCR and so one, now the first screening is by PCR and then other methods

- In case of positive sample – suspected trees are destroyed (under control of Agricultural Board)

Gaps in knowledge and needs from the project

- more knowledge on pathogen

- A lot of questions on diagnostic methods (especially pure culture and pathogenisity test, ELISA)

- ring tests

- exchange of knowledge with colleagues

- study on the potential development and pathogenicity of disease, the effects of the disease

Thank you for your attention