



Epidemics and control of early & late blight, 2012 in Europe

Jens Grønbech Hansen, Huub Schepers, Kees Vogelaar, Arne Hermansen, Ragnhild Nærstad, Jozefa kapsa, Asko Hannukkala, Björn Andersson, Mati Koppel, Louise Cooke, Alexey Filippov, Ludovic Dubois, Catherine Chatot, Pieter Vanhaverbeke, Antanas Ronis, Tomke Musa, Hans Hausladen, Ervín Hausvater, Steven Kildea, Faye Ritchie, Ruairidh Bain & Alison Lees



Late Blight Country Reports

Objective

General objective:

- To provide an overview of the late blight seasons in Europe
- Support of specific surveys (i.e. European population surveys)
- Support the implementation of Directive 2009/128/EC on the sustainable use of pesticides

Specific objective:

- Summary presentation at EuroBlight workshops.
- Report in the EuroBlight workshop proceedings



Country Profile Editors (2012)

Country	Name
Austria	-
Belgium (Flanders)	Pieter Vanhaverbeke
Belgium (Wallonie)	Jean-Louis Rolot
Czech Republic	Ervin Hausvater
Denmark	Jens G. Hansen & Bent Nielsen
England/Wales	Faye Ritchie
Estonia	Mati Koppel & Eve Runno
Finland	Asko Hannukkala
France	Ludovic Dubois/Catherine Chatot
Germany	Hans Hausladen
Hungary	-
Ireland	Steven Kildea
Italy	Riccardo Bugiani
Latvia	Linda Bucena
Lithuania	Antanas Ronis
Netherlands	Kees Vogelar
Northern Ireland	Louise Cooke
Norway	Arne Hermansen & Ragnhild Nærstad
Poland	Jozefa Kapsa
Portugal	-
Rumania	-
Russia	Alexey Filippov
Scotland	Ruairidh Bain & Alison Lees
Slovakia	Peter Vrabček
Spain	-
Sweden	Bjorn Andersson
Switzerland	Tomke Musa

**Thank you for
information!**

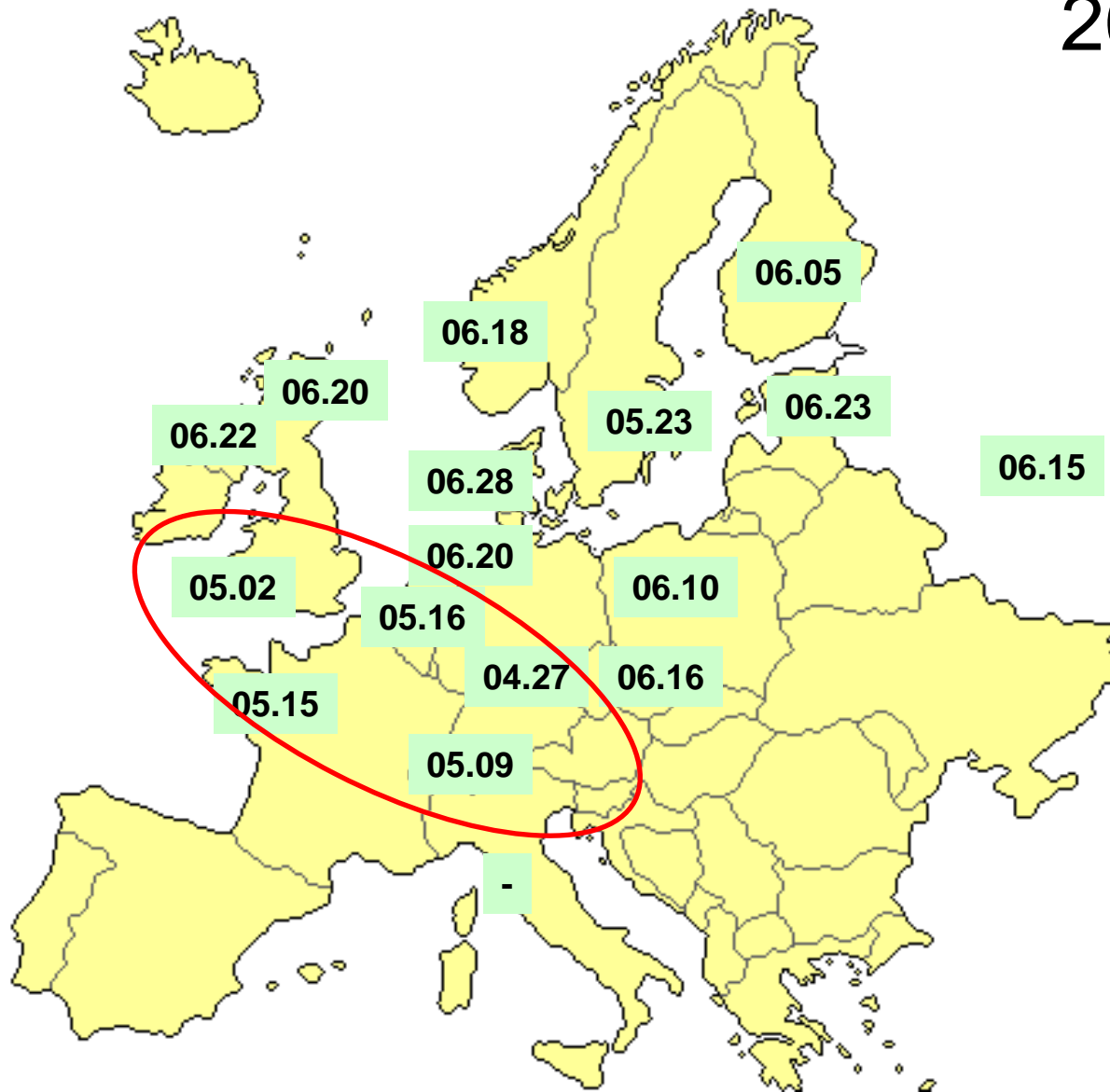
Late blight country reports - Questions

EuroBlight Country Profile Data

- **SUMMARY**
- **Early outbreaks of potato late blight**
- **Weather conditions and late blight development**
- **Use of fungicides and control strategies**
- **Organic potatoes**
- **Tuber blight**
- ***Alternaria ssp***
- **Characteristics of *Phytophthora infestans***
- **Use of cultivars**
- **Use of DSS+**
- **Actions and NAP preparing for Directive 2009/128/EC**

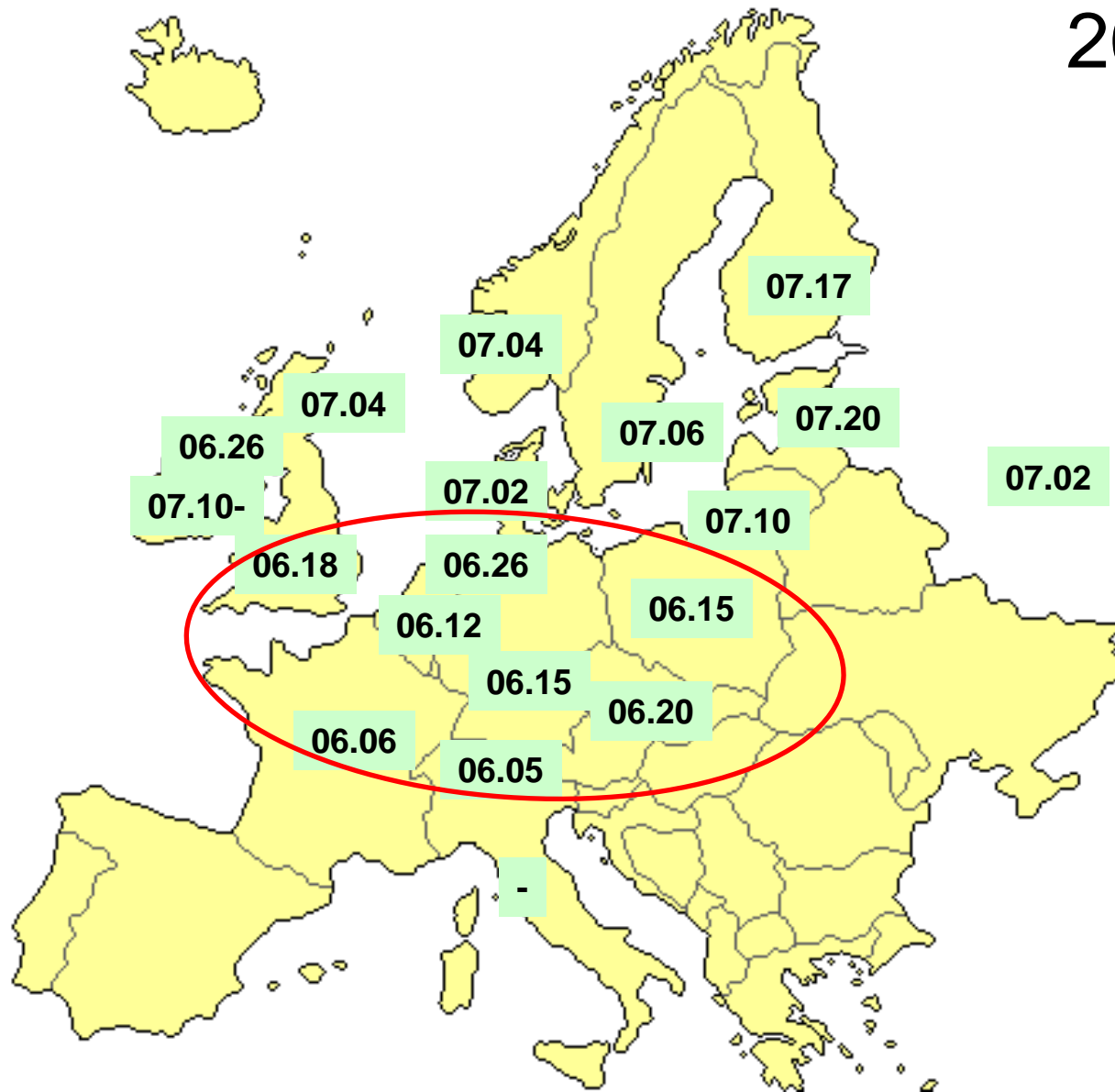
First observation of late blight in covered or very early planted potatoes

2012



Date when first infections were reported in more than 5 conventional, normally planted potato fields

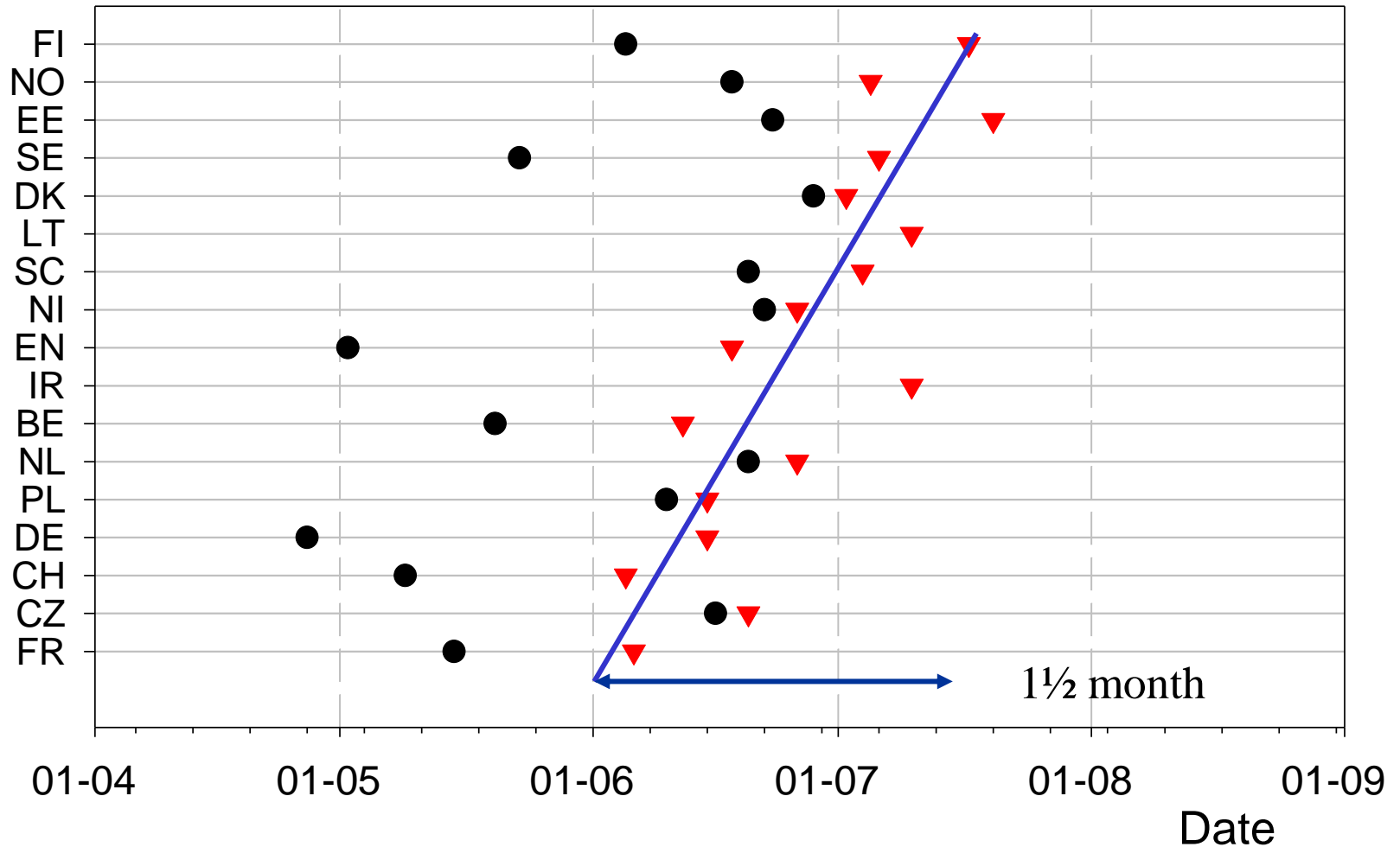
2012



First infections, 2012

● = Covered potatoes, dumps, oospores

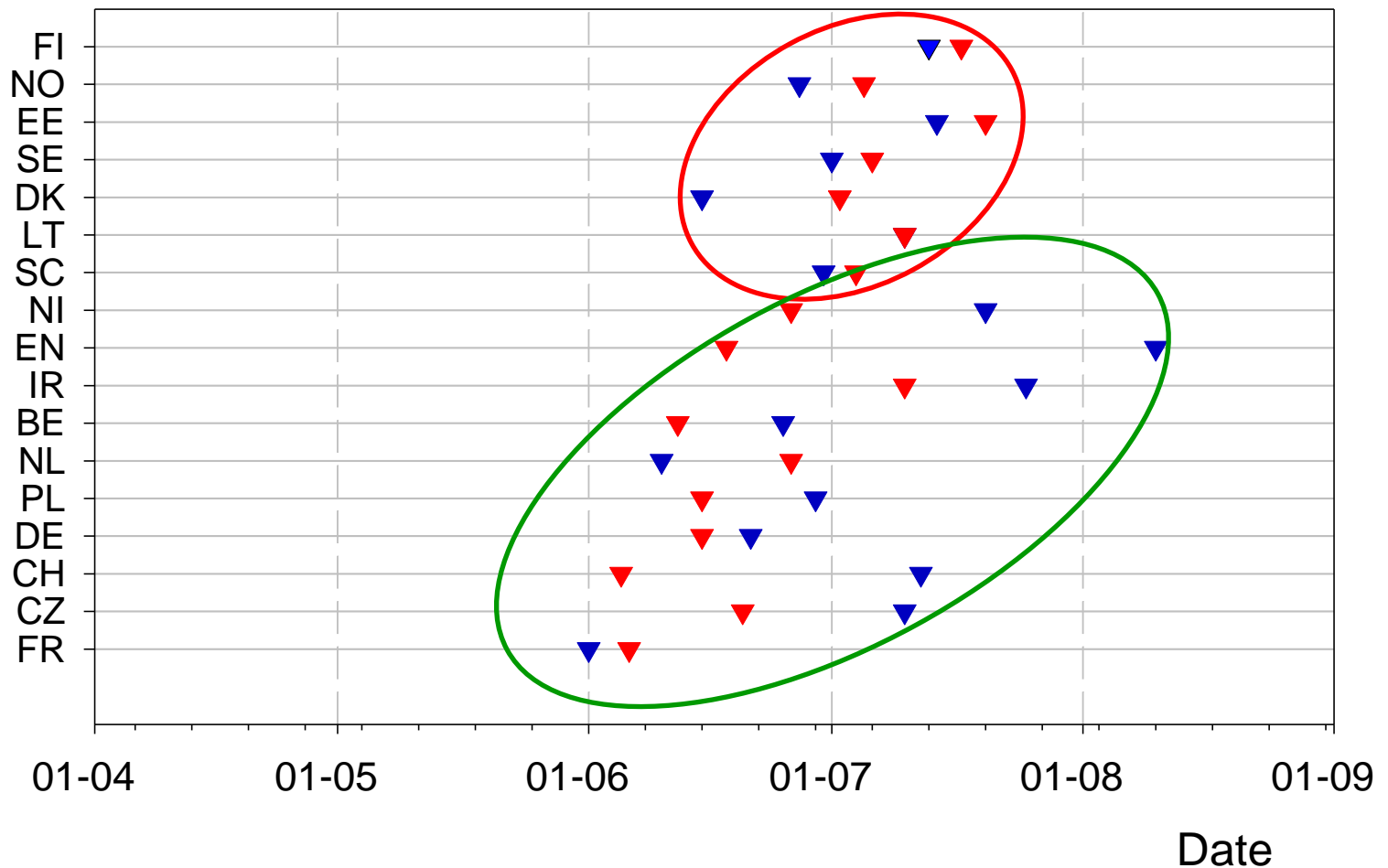
▼ = attacks in more than 5 conventional fields



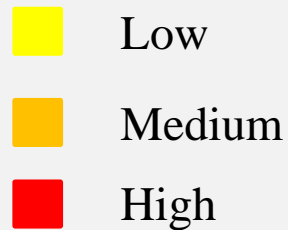
Date when first infections were reported in more than 5 conventional, normally planted potato fields

▼ = 2012 attacks in more than 5 conventional fields

▼ = 2011 attacks in more than 5 conventional fields



Weather conditions favourable for blight development, 2012



Country	May	June	July	August	September
Finland	Low	Low	High	High	High
Norway	Low	Medium	High	High	High
Estonia	Medium	Medium	High	High	High
Sweden	Low	Medium	High	High	High
Denmark	Low	Medium	High	High	High
Lithuania	Low	Low	Medium	High	High
Scotland	Low	High	High	High	Low
N. Ireland	Low	High	High	High	Low
England	Medium	High	High	High	Medium
Ireland	High	High	High	High	High
Belgium	Medium	High	High	Medium	Low
Netherlands	Low	Medium	Low	Low	Medium
Poland	Low	Medium	Low	Medium	Medium
Germany	Low	Medium	Medium	Medium	Medium
Switzerland	Medium	High	High	Medium	Medium
Czech republic	Low	Low	High	Medium	Medium
France	Medium	Medium	High	Medium	Medium

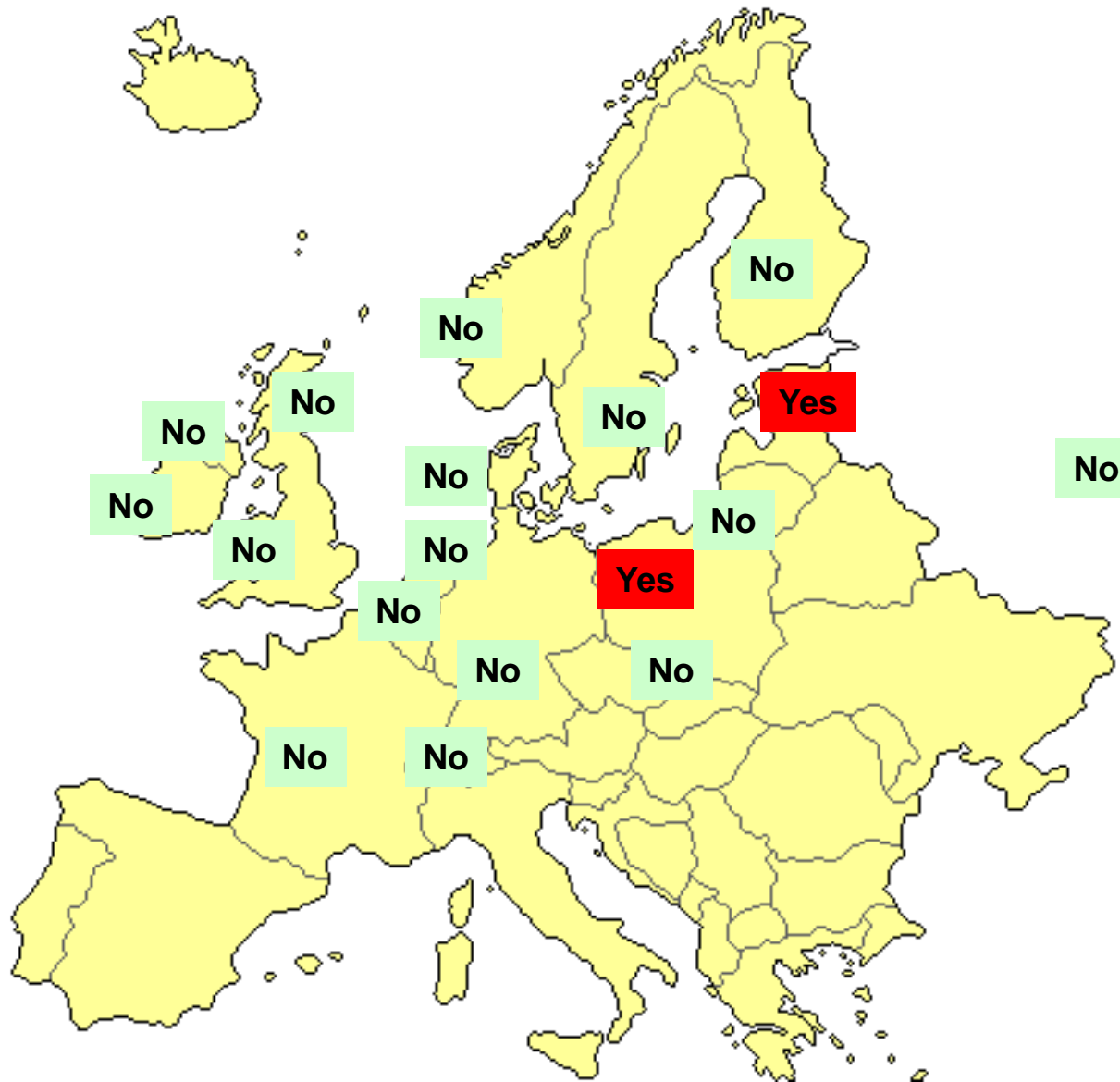
Problems with tuber blight, 2012 (compared to normal)



Problems with *Alternaria* spp., 2012 (compared to normal)



Indications of oospores, 2012



Fungicide resistance, 2012

Metalaxyl – Blue 13

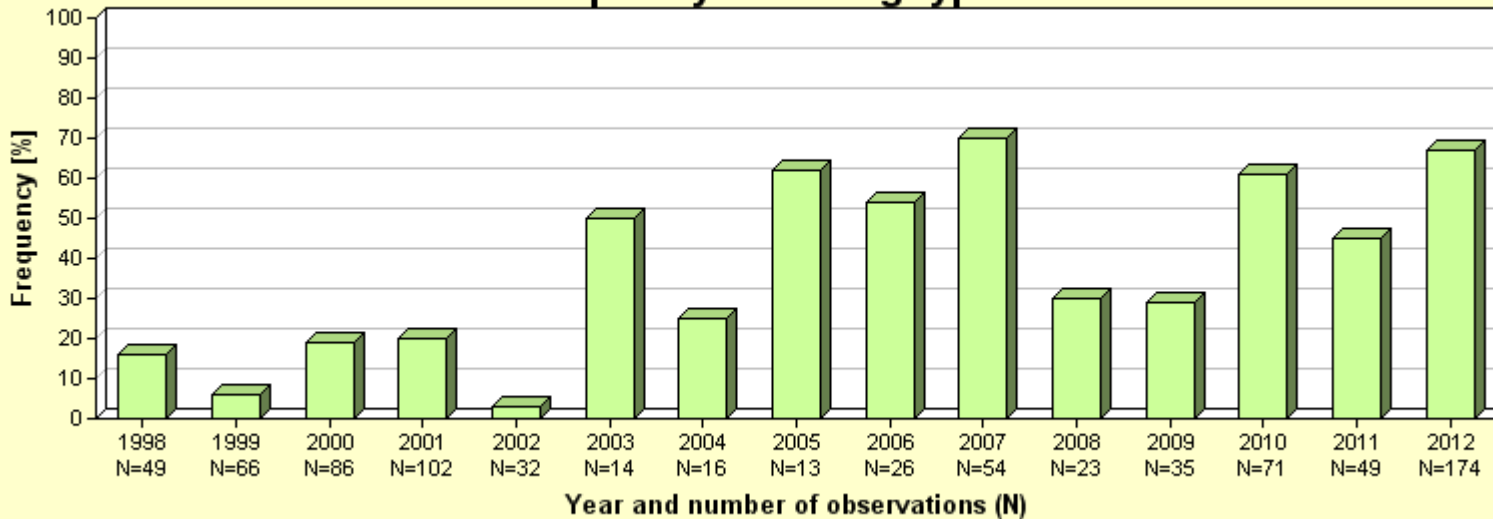
Mentioned by Denmark and Cyprus

Fluazinam – Green 33

Mentioned by Netherlands

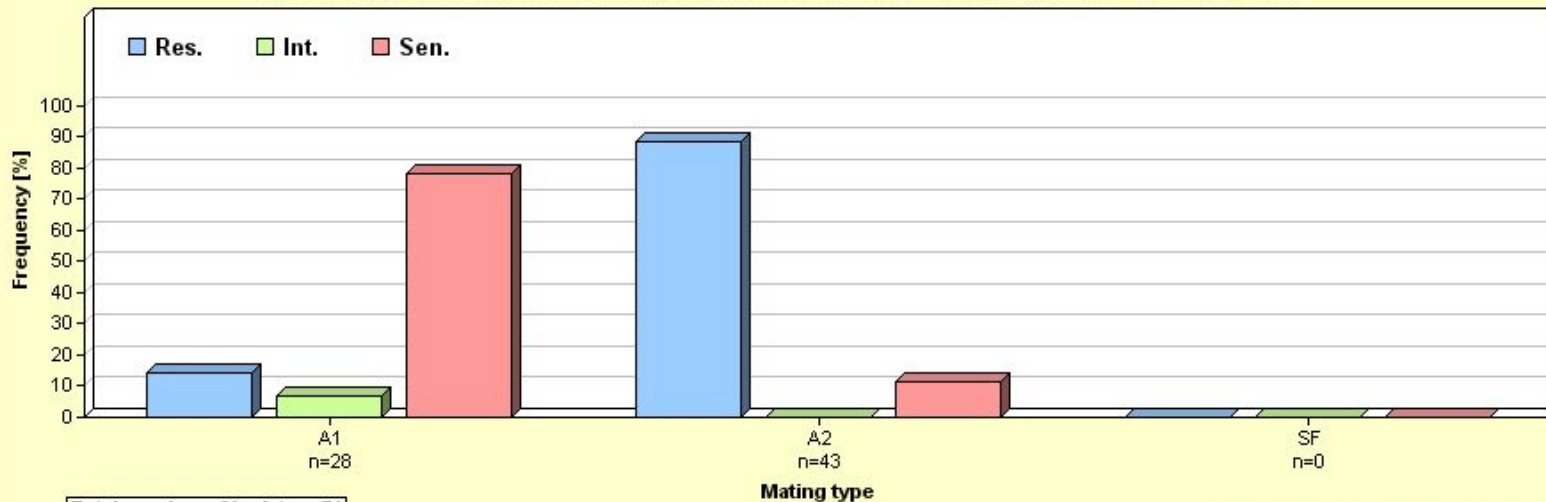
Fungicide resistance, Belgium 2012

Frequency of mating type A2



(c) Copyright EucaBlight, 2003-2006

Frequency of isolates for Metalaxyl resistance by Mating type [Belgium - 2012]



Total number of isolates: 71

(c) Copyright EucaBlight, 2003-2006

Use of DSSs

Belgium	Improved Guntz-Divoux, GIS + surveillance
Czech Republic	Negative prognosis, NegFry and NoBlight
Denmark	Blight Management on web + APP
England & Wales	Blight-Watch, Plant Plus and BlightCAST
Estonia	Jögeva PBI web system
France	Mileos (MilPV + MildiLIS)
Germany	PhytophthoraModel Weihenstephan, ISIP
Netherlands	ProPhy, Plant Plus and Phytophthora App
N. Ireland	DARD Blight-Net, and Plant Plus
Norway	VIPS (Försund, negative prognosis, New model)
Poland	Negative Prognosis, NegFry and ProPlant
Russia	Plant Plus, VNIIF-3 and SimCast+VNIIF-3
Sweden	Plant Plus , DK Blight Management and NO VIPS
Switzerland	PhytoPRE+2000, PhytoPRE Web App Service

**Thank you for your attention !
And thanks to all country editors**

