EuroBlight

EU.NET.ICP & EUCABLIGHT
Potato Late Blight Network For Europe



Epidemics and control of late blight, 2007 and 2008 in European countries



Late Blight Country Reports

General objective:

To provide an overview of the late blight season in Europe for the support of specific surveys (i.e. Eucablight results), scientific studies and scenario analysis.

Specific objective

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

Country Profile Editors (2007 and 2008)

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country Austria Belgium (Flanders) Belgium (Wallonie) Czech Republic Denmark England/Wales Estonia Finland France Germany Hungary Ireland Italy Latvia Lithuania Netherlands Northern Ireland Norway Poland Portugal Rumania Russia Scotland Slovakia Spain Sweden Switzerland	Name Gottfried Beser Pieter Vanhav Jean-Louis Re Ervin Hausvar Jens G. Hans Faye Ritchie a Mati Koppel Asko Hannuk Ludovic Dubor Hans Hauslad Zsolt Polgar Leslie Dowley Riccardo Bug Linda Bucena Antanas Roni Wim Nugterer Louise Cooke Arne Herman Jozefa Kapsa ? ? Alexey Ruairidh Jan ? Bjorn Tomke	enhofer verbeke olot ter en & Alison Lees kala bis den / iani a s n e Sen & Renate Lebecke ? Filippov Bain Heldak ? Andersson Musa	Thank you for information!
Turkey	Emel	Cakir	

Late blight country reports

Euroblight Country Profile Data

- **Ø SUMMARY**
- Early outbreaks of potato late blight
- Weather conditions and late blight development
- **10** Use of fungicides and control strategies
- **Ø** Organic potatoes
- **Ø** Tuber blight
- Alternaria ssp
- **ODE Characteristics of Phytophthora infestans**
- **Ø** Use of cultivars
- **Ø** Use of DSS

Weather report

Yearly Country

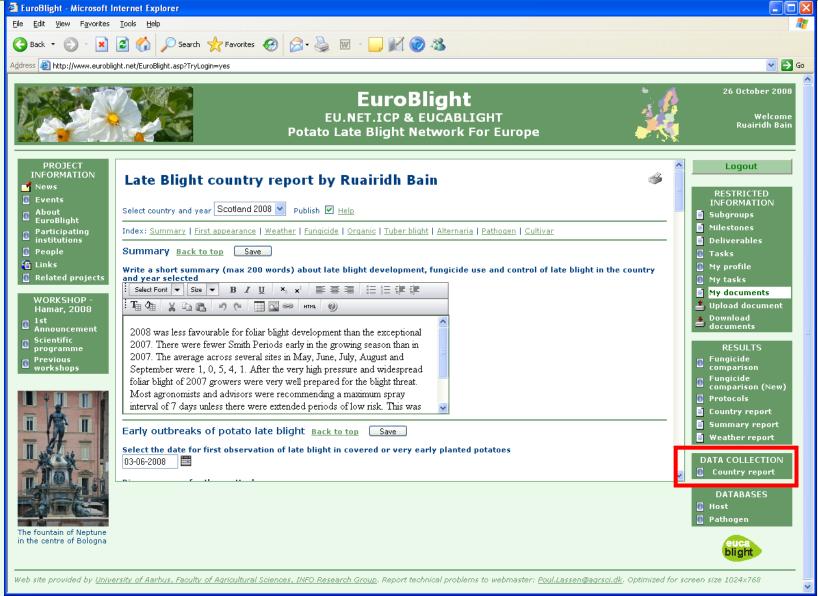
Summary Report

Reports

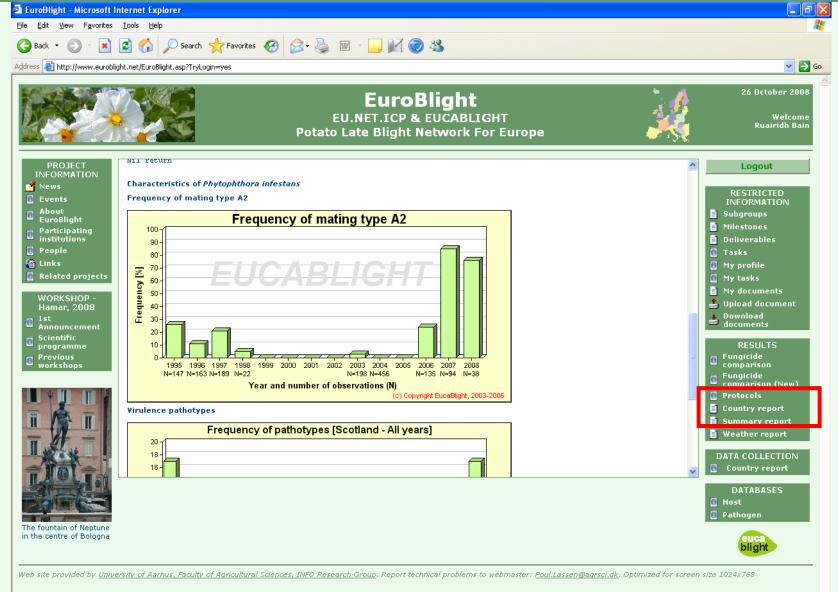
Eucablight database

- **☑** Frequency of mating type A2
- **Ø** Virulence Pathotypes

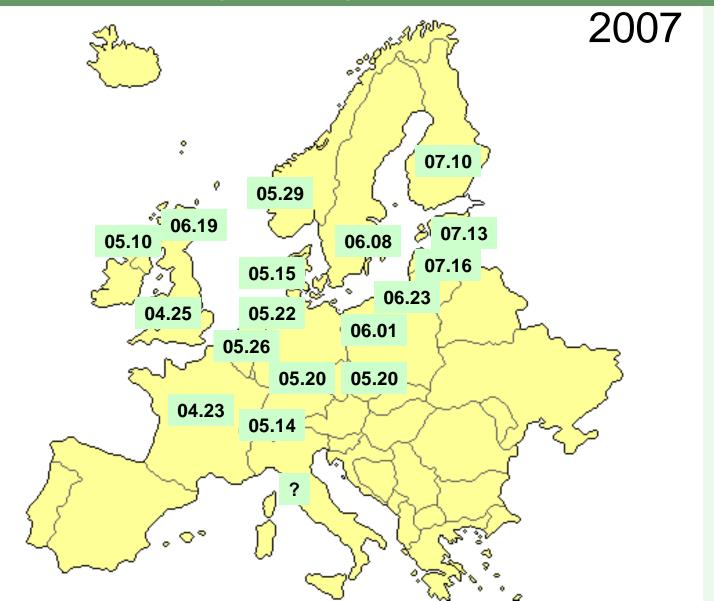
Late blight country reports Entering information



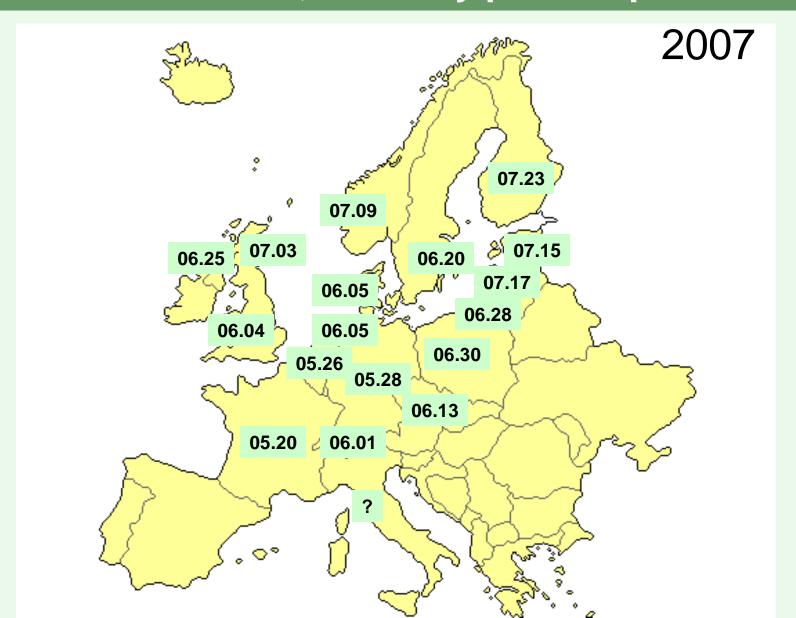
Late blight country reports Merge with Eucablight database



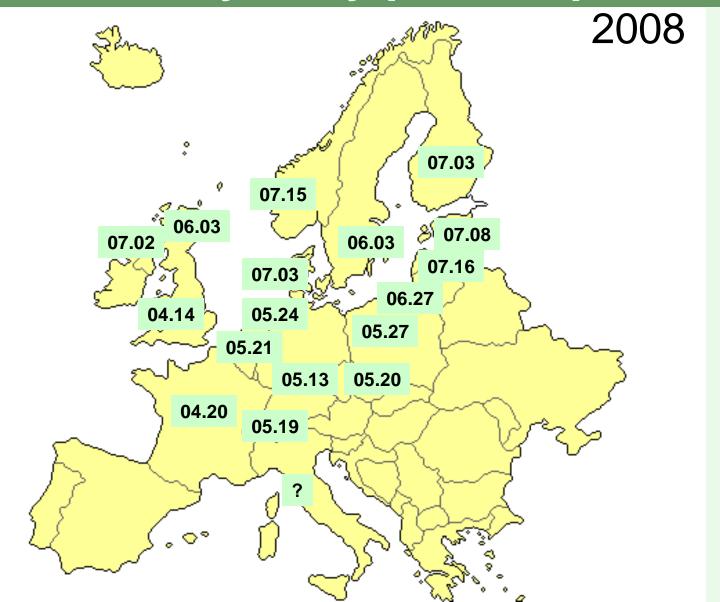
First observation of late blight in covered or very early planted potatoes



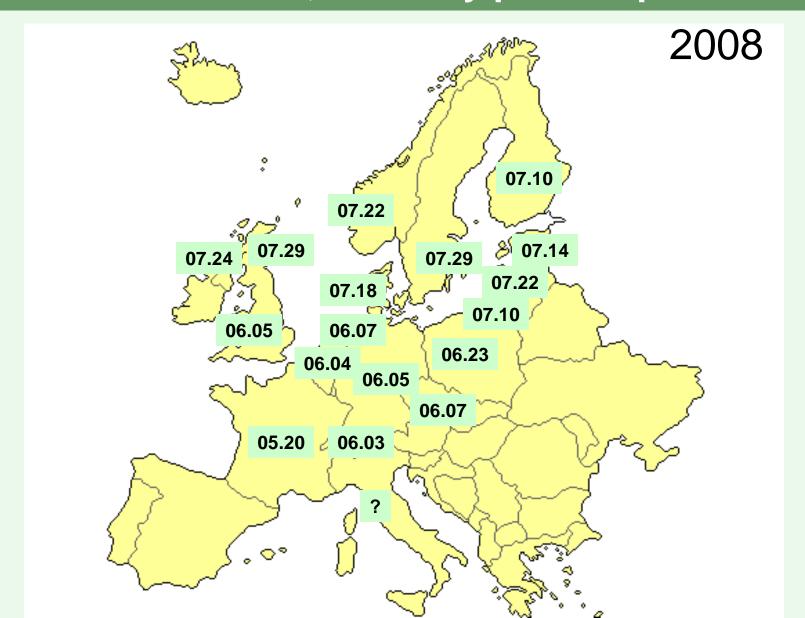
Date when first infections were reported in more than 5 conventional, normally planted potato fields



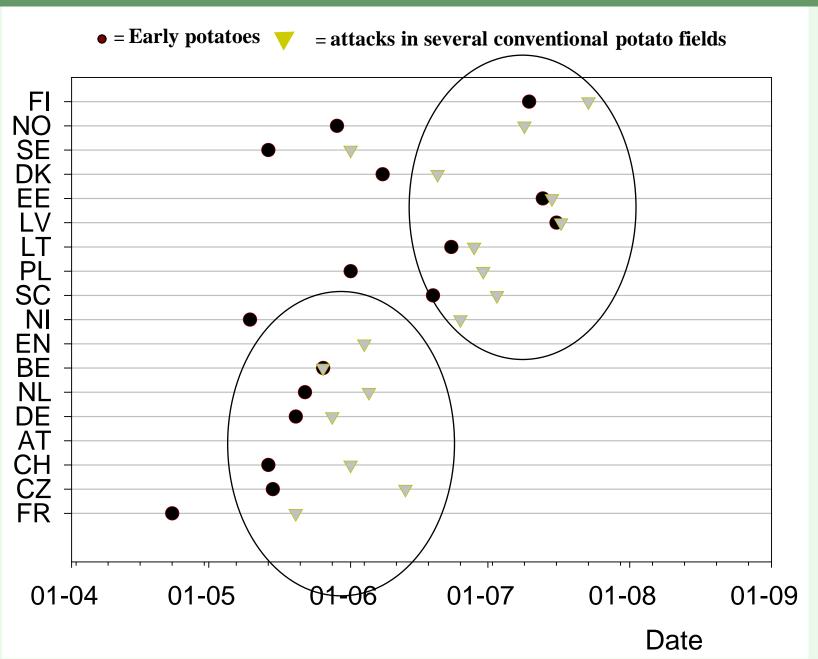
First observation of late blight in covered or very early planted potatoes



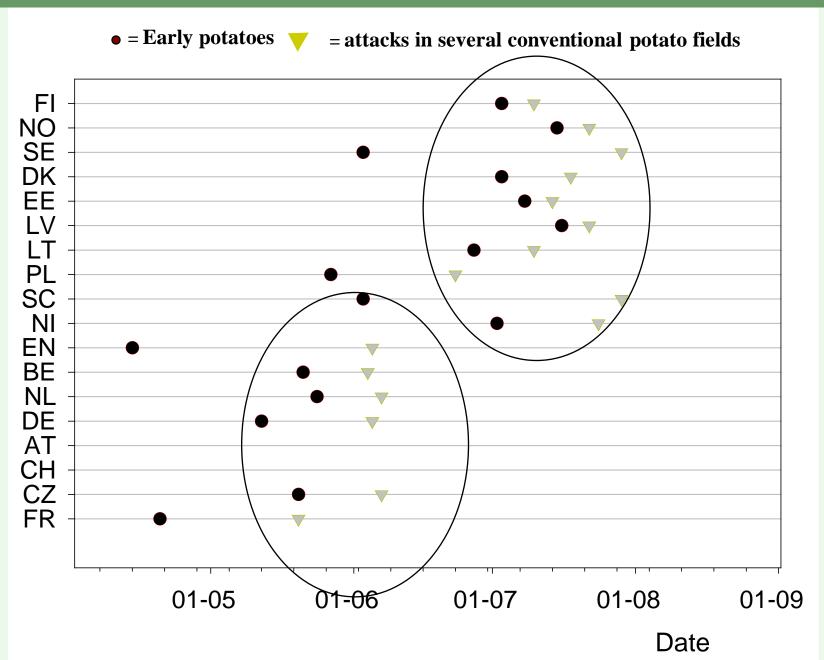
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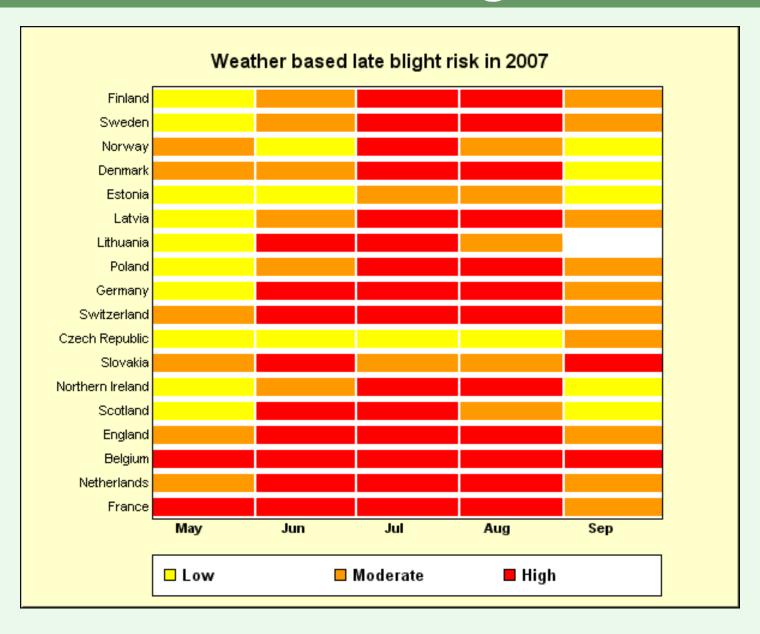
First infections, 2007



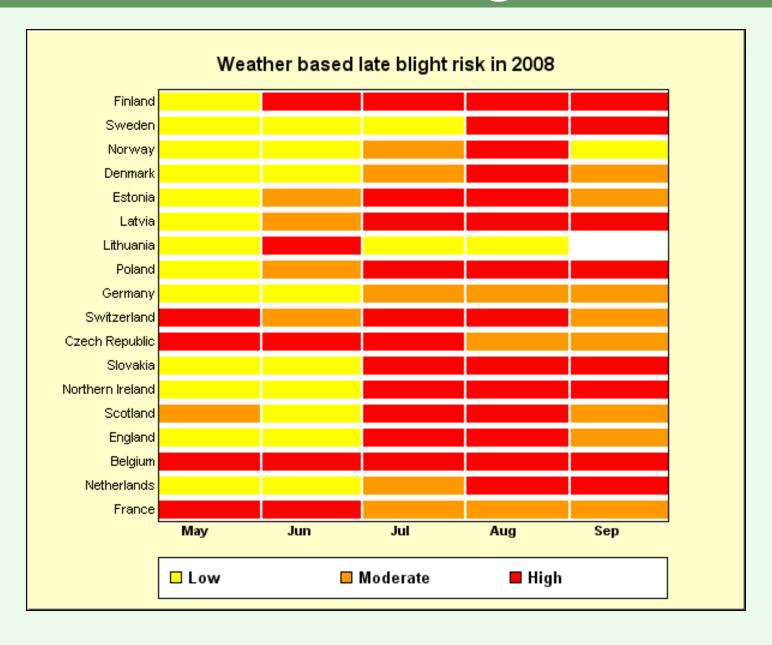
First infections, 2008



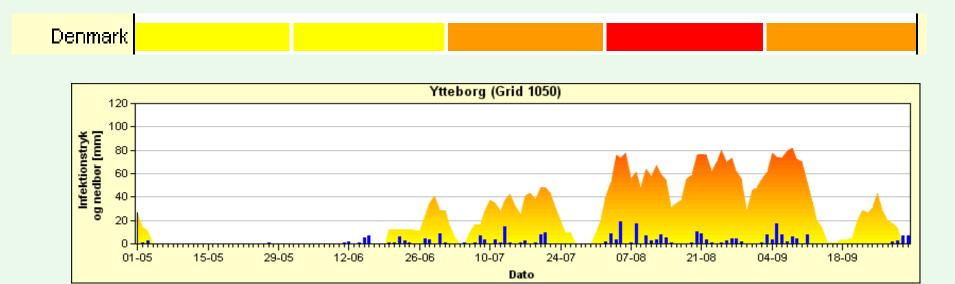
Weather based late blight risk, 2007



Weather based late blight risk, 2008



Weather based late blight risk, 2008



Fungicide use, 2007

Fungicide

	Number of fungicide applications used in ware potatoes			Number of fungicide applications used in all potatoes		
Country	min	max	mean	min	max	mean
Belgium	18	25	21	10	25	18
Czech Republic	2	7	5		5	4
Denmark	5	10	7.5	5	16	9
England						
Estonia		6	2.5		6	2,5
Finland	3	7	5	2	7	4
Germany	4	18		4	18	
Ireland						
Latvia	2	5	3	2	4	3
Lithuania	4	10	5	1	4	2.5
Netherlands	14	21	17	12	21	15
Northern Ireland	6	15	10	5	13	9
Norway	2	8	6	2	8	6
Poland	3	17	5	1	17	3
Russian Federation		9	3	1	11	3
Scotland						
Sweden	5	15	8	5	10	6
Switzerland						
Turkey						

Fungicide use, 2008

Fungicide

	Number of fungicide applications used in ware potatoes			Number of fungicide applications used in all potatoes		
Country	min	max	mean	min	max	mean
Belgium	17	22	19	10	22	15
Czech Republic	5	12	7	2	8	6
Denmark	4	9	7	4	14	8.5
England	10	12	11	10	12	11
Estonia	3	9	5	3	9	5
Finland	3	9	5	4	9	6
France	14	18	15	8	20	15
Germany	4	15	7	4	15	7
Latvia	3	5	4	1	5	3
Lithuania	4	10	5	1	4	2.5
Netherlands	8	18	14	6	18	13
Northern Ireland	5	13	9	5	13	9
Norway	2	8	5.5	2	8	5.5
Poland	-9	-9	-9	-9	-9	-9
Russian Federation	-9	-9	-9	1	10	3
Scotland	-9	-9	-9	-9	-9	-9
Slovakia	4	8	5	-9	-9	-9
Sweden	4	15	7.5	-9	-9	-9
Switzerland	-9	-9	8	-9	-9	-9

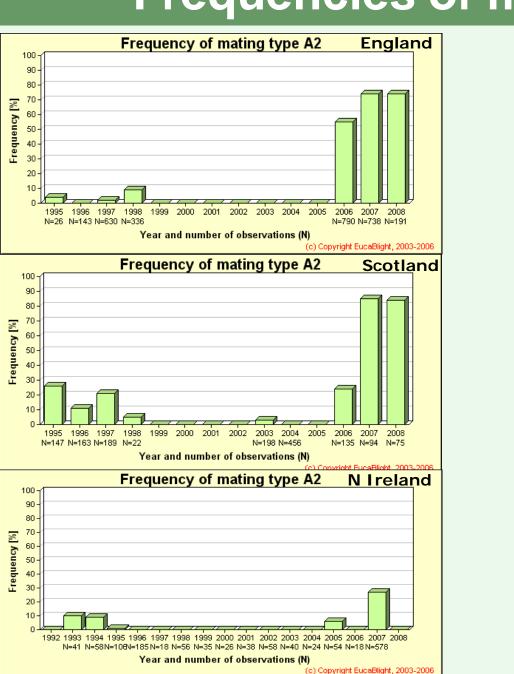
Problems with tuber blight, 2007 (compared to normal)

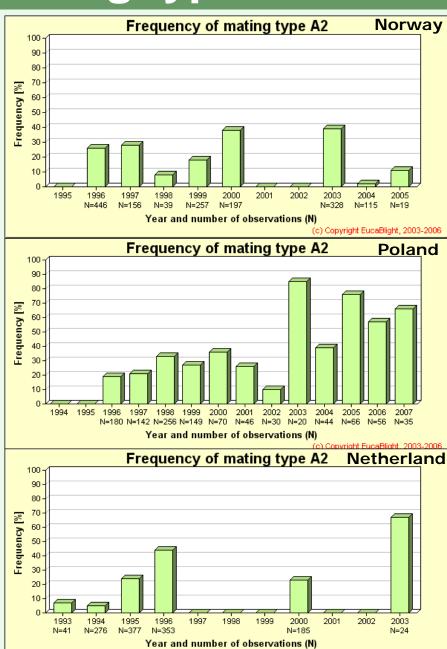


Problems with tuber blight, 2008 (compared to normal)



Frequencies of mating type A2





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Use of DSSs

Belgium	Warning based on Guntz-Divoux
Czech Republic	Negative prognosis
Denmark	PlanteInfo
UK	Blight-Watch and Plant Plus
Estonia	Jögeva PBI web system
France	Mileos (MilPV + MildiLIS)
Germany	PhytophthoraModel Weihenstephan, ISIP
Netherlands	ProPhy and Plant Plus
N. Ireland	DARD Blight-Net

Plant Plus, VNIIF-3 and SimCast+VNIIF-3

VIPS

(Plant Plus)

PhytoPRE+2000

Norway

Russia

Sweden

Switzerland

Late Blight Country Reports Summary

- First infections later in 2008 than in 2007 in the Northern part of Europe
- This coincides with relatively unfavourable weather for late blight in May and June in 2008
- Only few reports of early infections from oospores in 2008
- Fungicide use was higher in 2007 than in 2008
- Tuber blight, 2007: Low to medium in all Europe (dry September?)
- **Ø** Tuber blight, 2008: Low in UK, FR, BE, NL and medium to high i North and East Europe
- Consolidation of A2 population in UK and France
- Most countries build their own DSSs based on known model components