



## Initium based products for the control of *Phytophthora infestans*

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## Product Profiles

- **Biology of the products**
  - *Field performance (foliar blight)*
  - *Rainfastness*
  - *Tuber blight efficacy*

# BAS 651 F and BAS 653 F



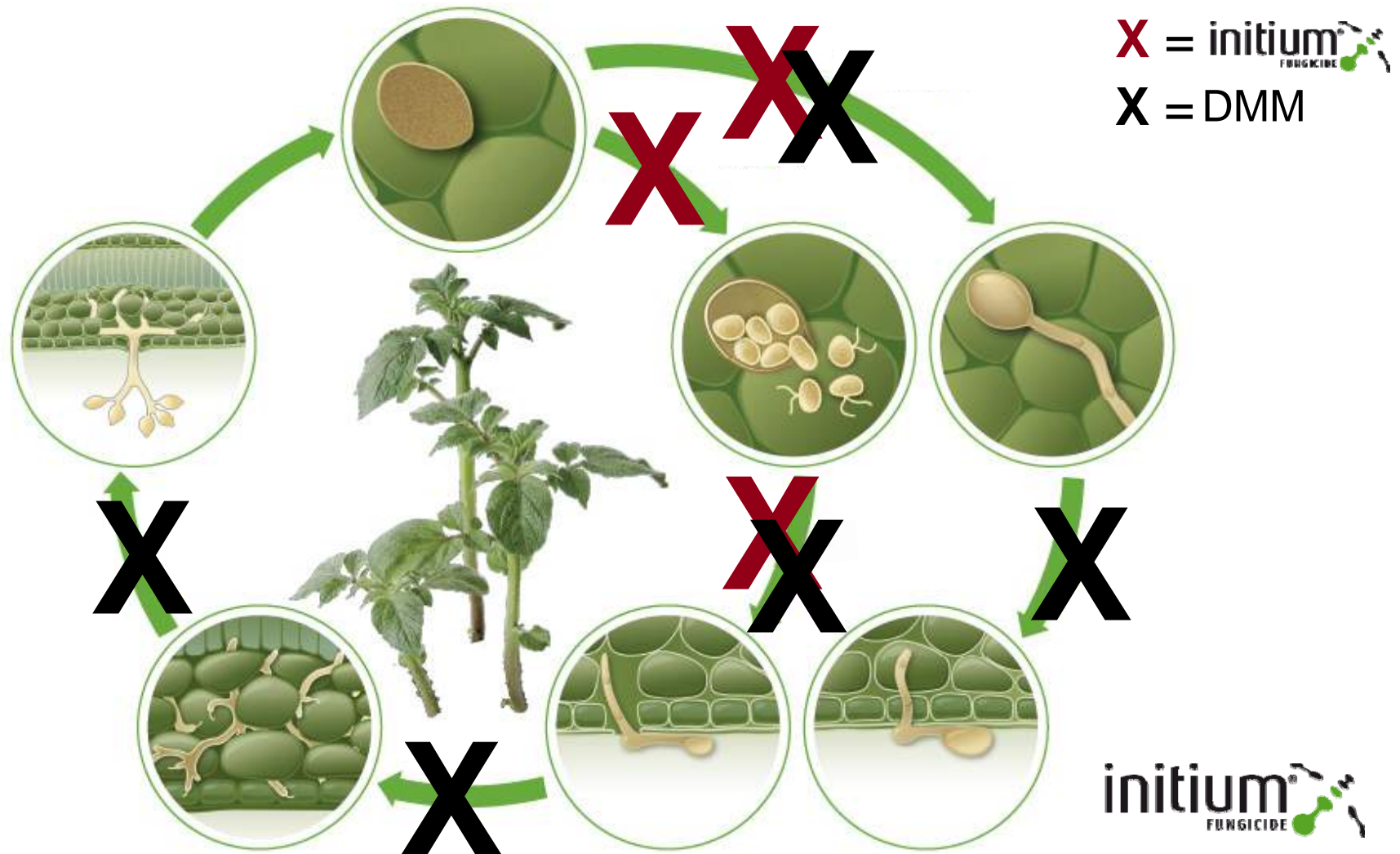
## Product profiles

	BAS 651 F	BAS 653 F
Active ingredients	Initium® + Dimethomorph	Initium® + Mancozeb
Mode of action	Complex III inhibitor + Inhibition of phospholipids biosynthesis and for interference with cell wall	Complex III inhibitor + Multi-side
Formulation	300 + 225 g/l SC	80 + 480 g/kg WG
Target dose rate (potato)*	0.8 l/ha (= 240 + 180 gai/ha)	2.5 kg/ha (= 200 + 1200 gai/ha)
Target disease (potato)*	Phytophthora infestans	Phytophthora infestans, (Alternaria spp.)
First Registration (expected)	2009 (RO) 2010 (further countries)	2010
Further target crops*	different vegetables, hops	Leek, Onions
Futher target diseases*	Phytophthora, downy mildews	Phytophthora, downy mildews

\* General information; the country-specific labels must be considered

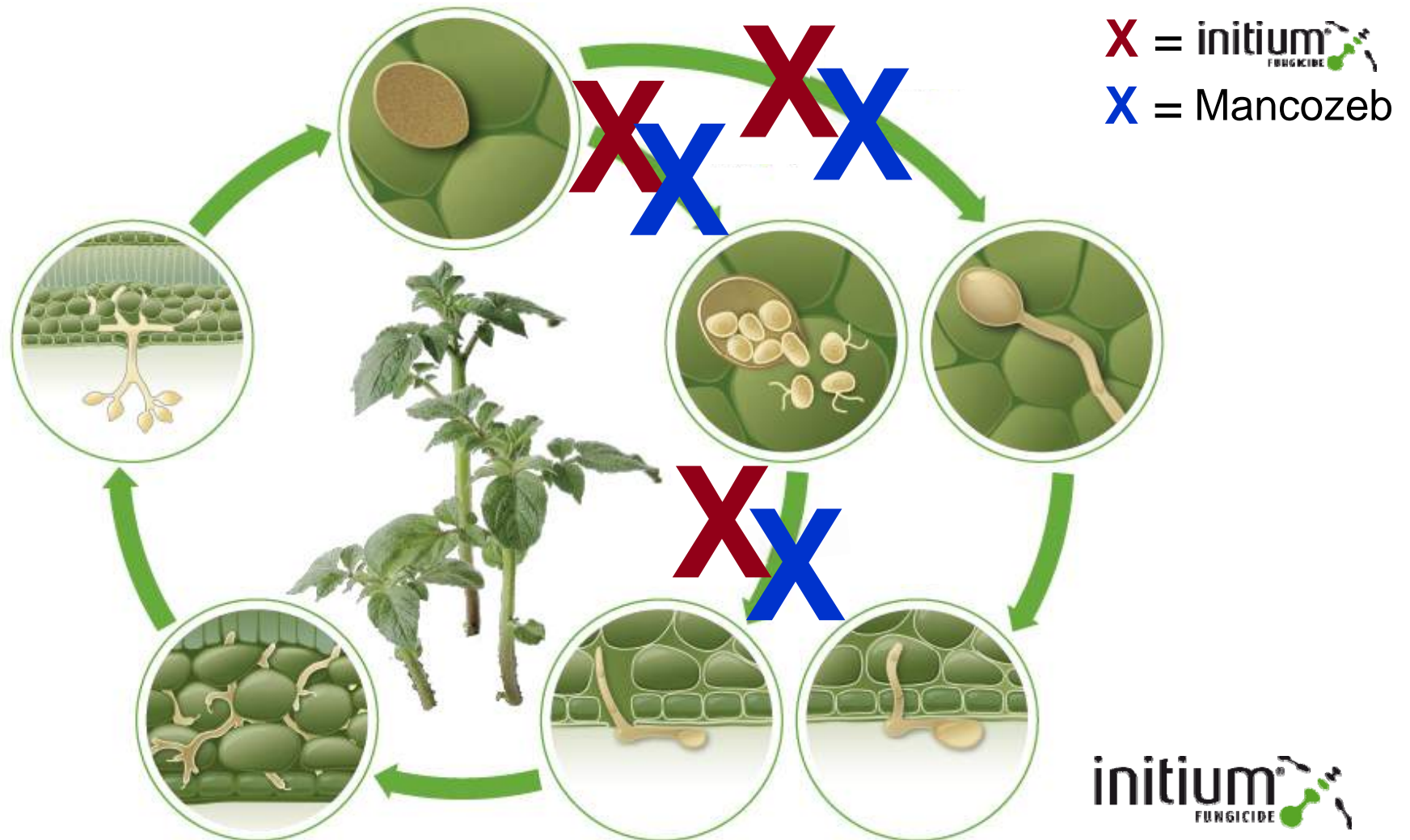
Combining the premium preventive and translaminar action

# BAS 651 F (Initium<sup>®</sup> + Dimethomorph)



Combining the premium preventive action of two a.i.s

# BAS 653 F (Initium<sup>®</sup> + Mancozeb)

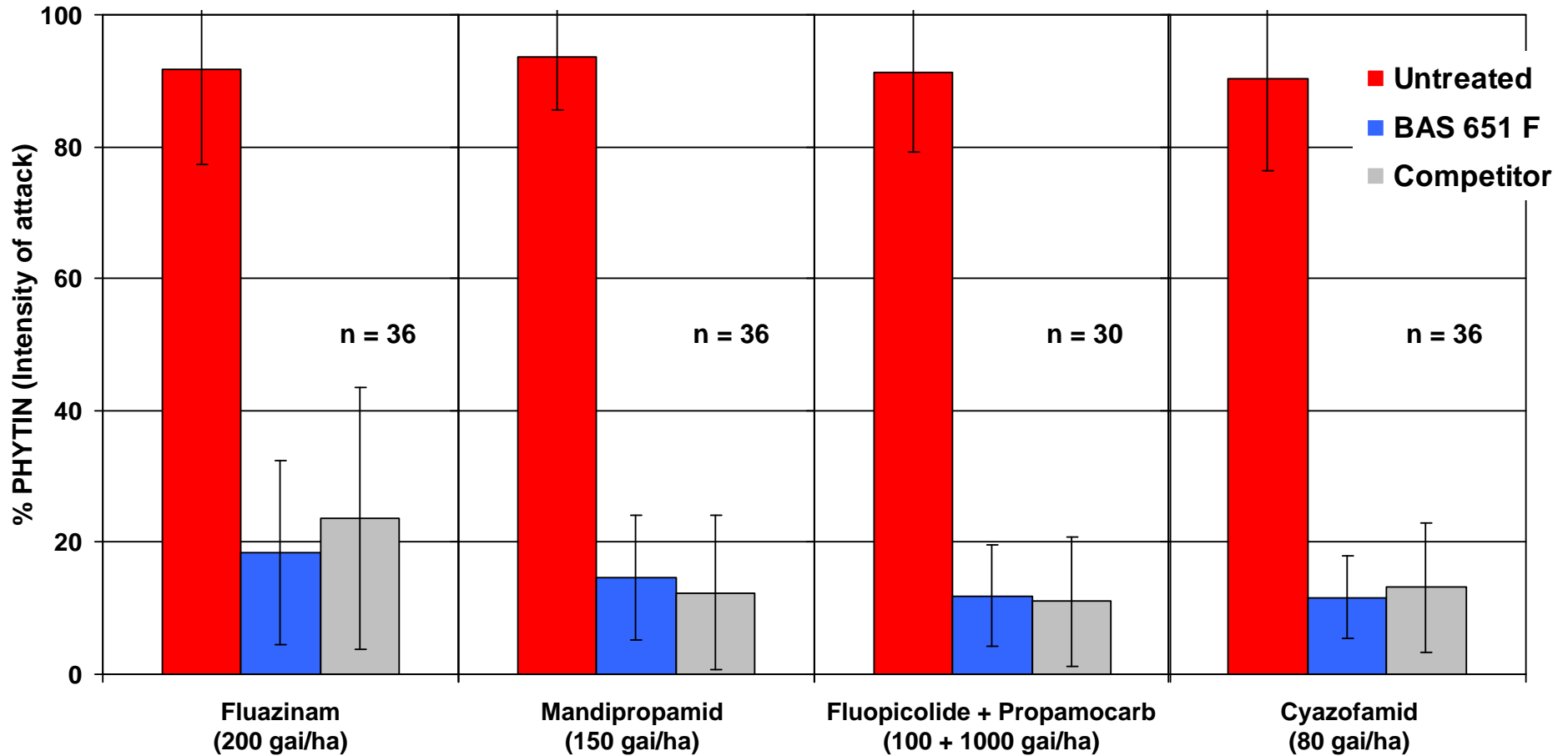


# Topics

## Product Profiles

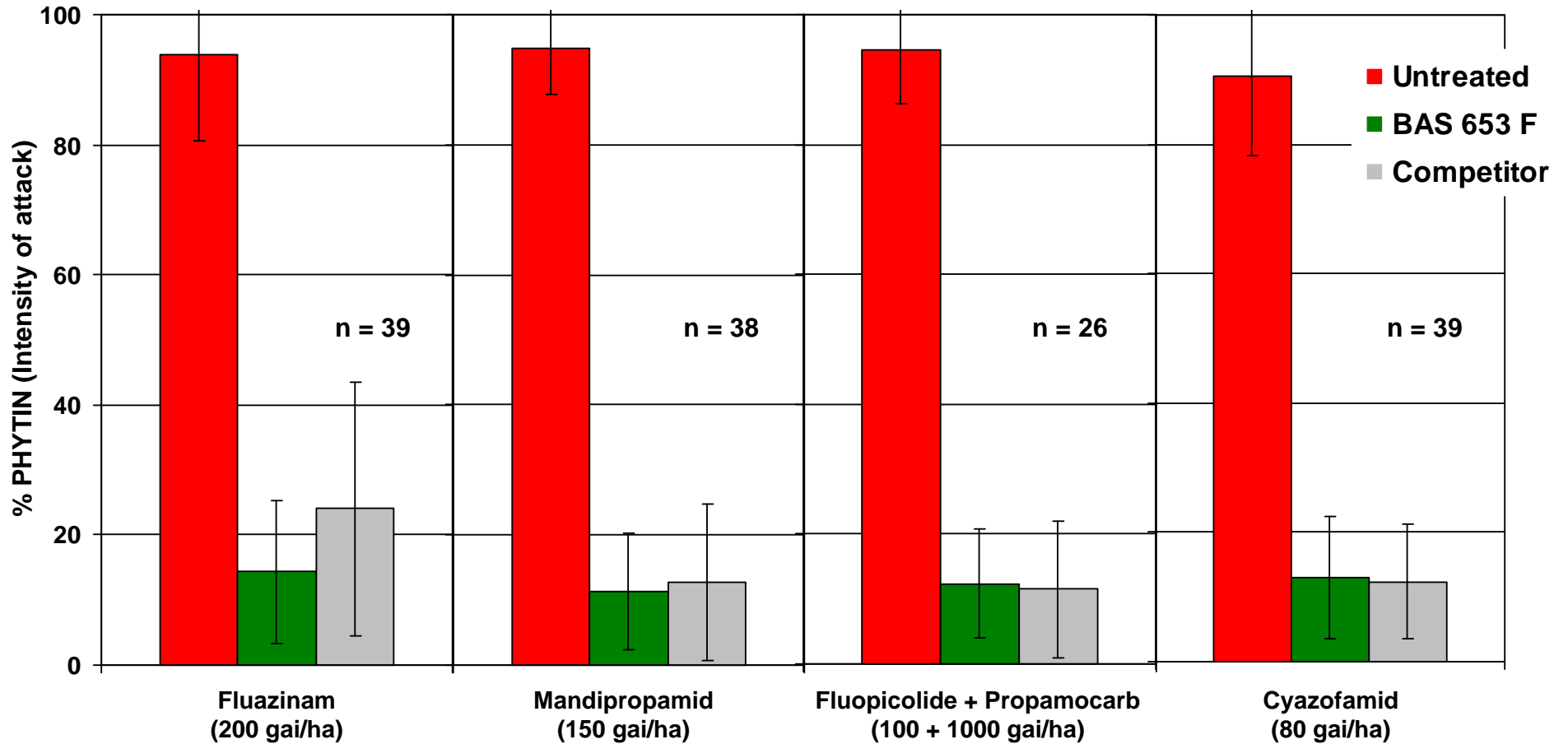
- **Biology of the products**
  - *Field performance (foliar blight)*
  - *Rainfastness*
  - *Tuber blight efficacy*

# BAS 651 F (Initium<sup>®</sup> + Dimethomorph) in comparison to market standards



➤ **BAS 651 F is comparable to the market standards**

# BAS 653 F (Initium<sup>®</sup> + Mancozeb) in comparison to market standards



➤ **BAS 653 F is comparable or better than the market standards**



# Topics

- **Product Profiles**
- **Biology of the products**

## *Field performance (foliar blight)*

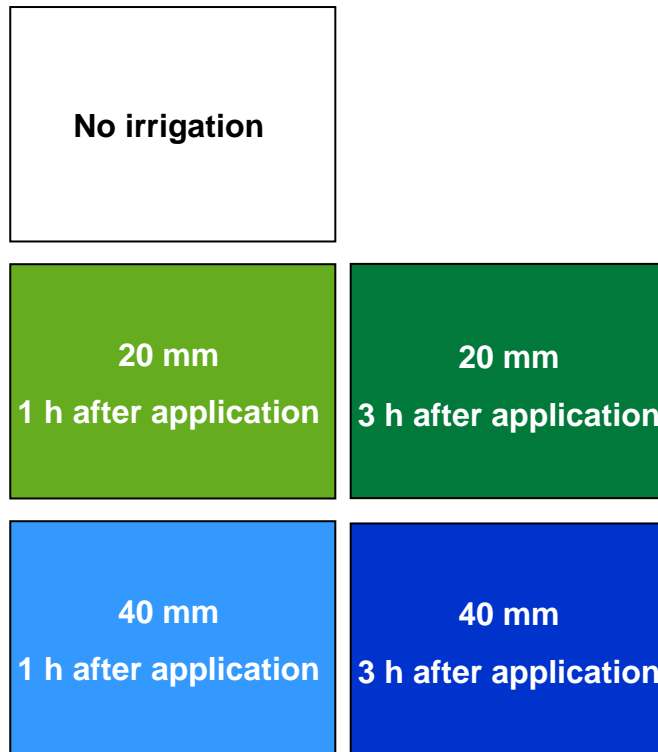
- *Rainfastness*
- *Tuber blight efficacy*

# Rainfastness Trial

(Germany – Palatinate area - Böhl, 2008)

Trial:DEV-F-2008-P18-VTF-383; Location: Böhl; Variety: Bintje, No. of appl.: 4 appl.; H<sub>2</sub>O: 400 l/ha; Initial attack: 1%

- Method: according to Euroblight protocol
- Variety: Bintje
- Application dates: 13.06., 19.06, 30.06, 14.07
- Irrigation:



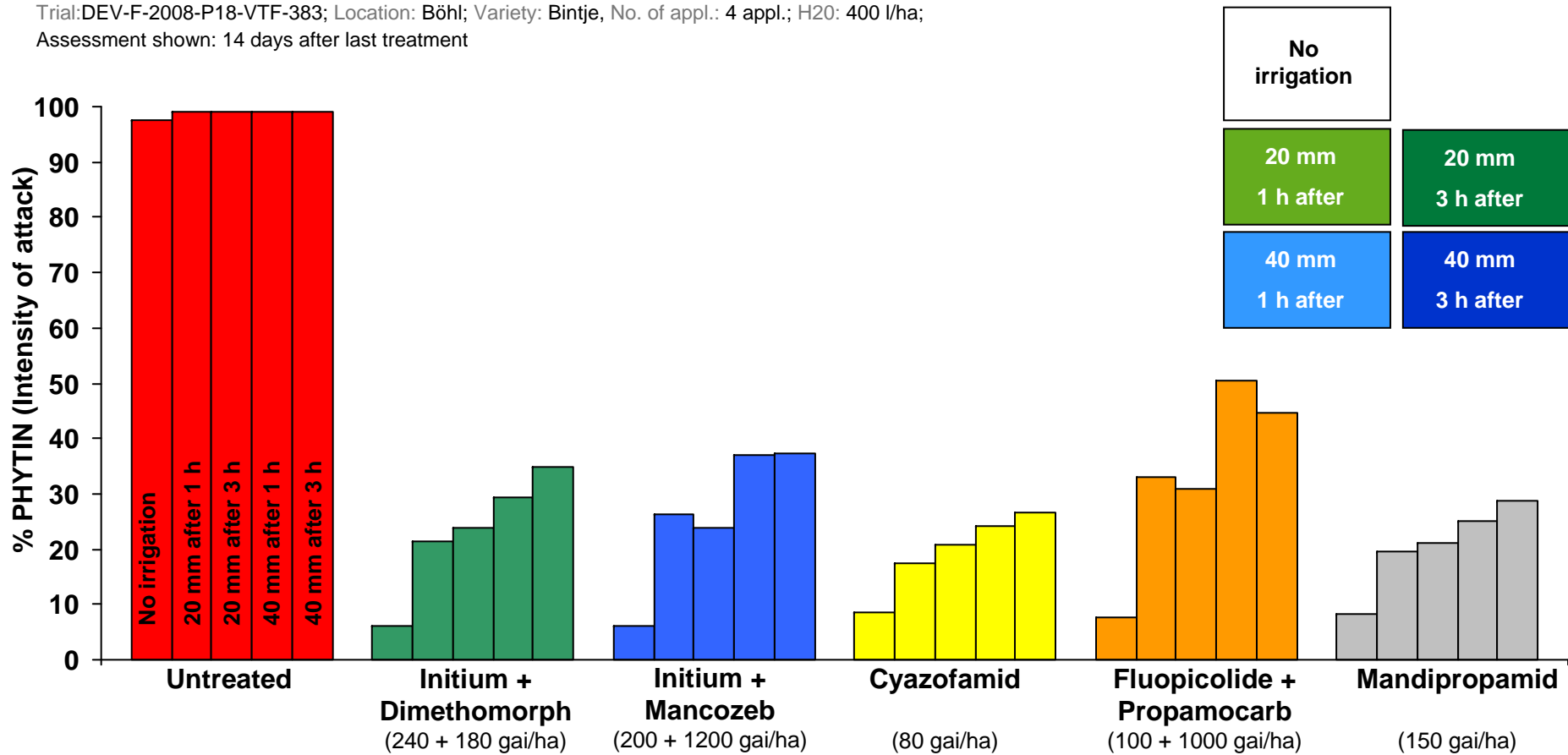


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Assessment shown: 14 days after last treatment



➤ Both products display a rainfastness as good as the market standards

# Rainfastness Trial

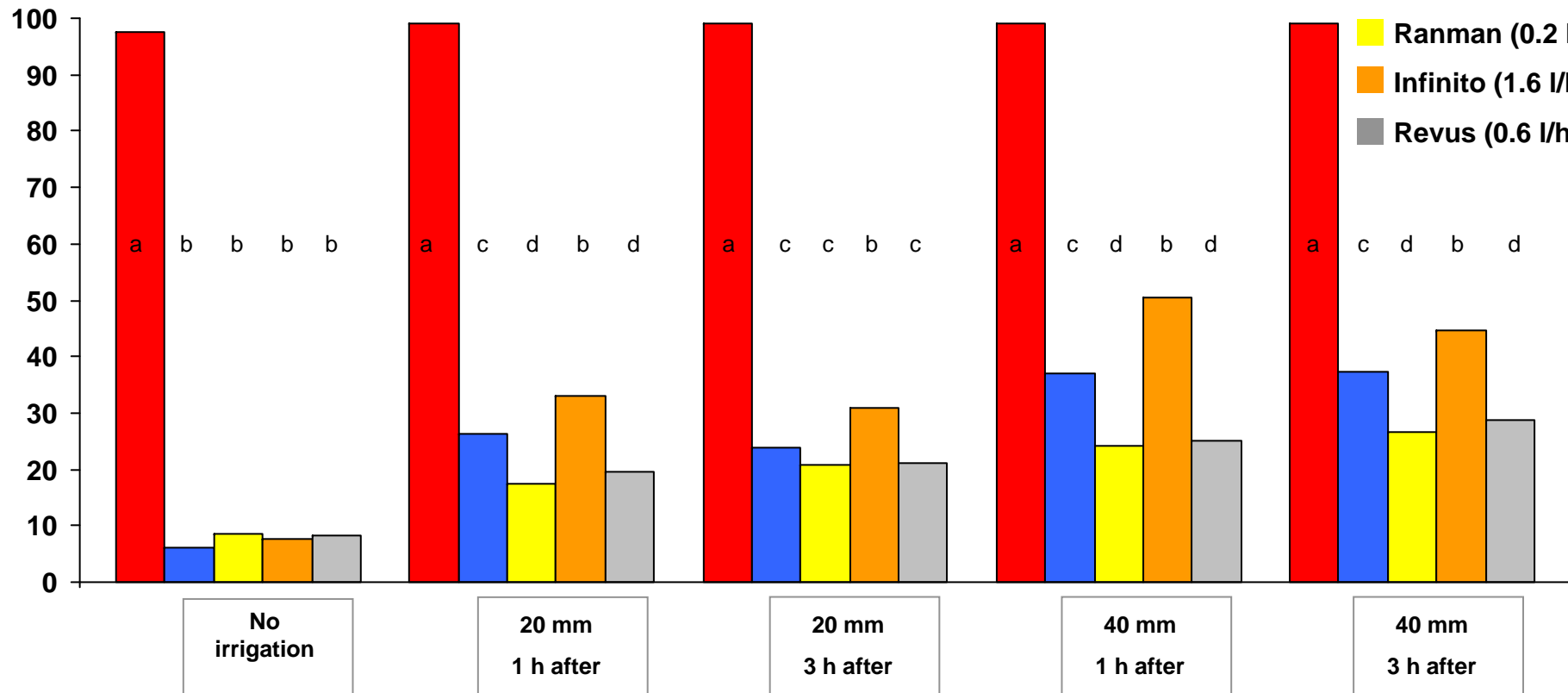
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Trial:DEV-F-2008-P18-VTF-383; Location: Böhl; Variety: Bintje, No. of appl.: 4 appl.; H2O: 400 l/ha; Assessment shown: 14 days after last treatment

### % PHYTIN (Intensity of attack)

Differences between means within one rain level are not significant if means are indicated with the same letter. SNK-test after arcsin-transformation,  $\alpha=0.05$ .

- Untreated
- BAS 653 (2.5 kg/ha)
- Ranman (0.2 l/ha)
- Infinito (1.6 l/ha)
- Revus (0.6 l/ha)



➤ Both products display a rainfastness as good as the market standards

# Topics

- **Product Profiles**
- **Biology of the products**
  - *Field performance (foliar blight)*

## *Rainfastness*

- *Tuber blight efficacy*

# What can we expect from Initium<sup>®</sup> based products in terms of tuber blight control?

## Inoculum

- Due to the good performance on foliar blight the inoculum will be reduced
- In the mixture with DMM sporangia formation will be reduced

## Viability and Mobility of Zoospores

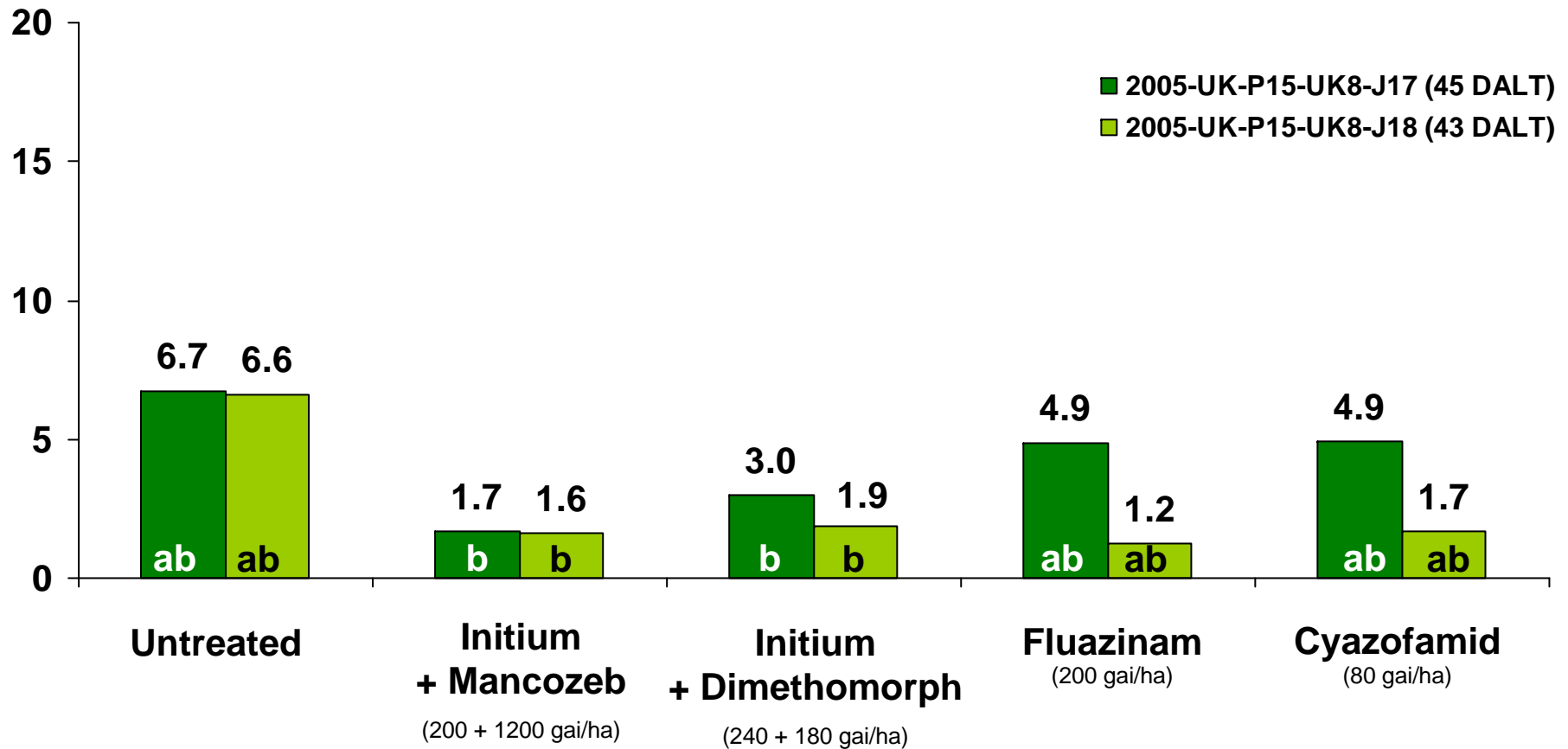
- Sporangia germination and zoospore release is inhibited
- In the presence of Initium<sup>®</sup> already released spores burst within seconds



# Tuber blight trial

UK, Agrisearch Ltd. 2005 (Marloes & Talbenny)

% tubers Infected  
(Weight at harvest)

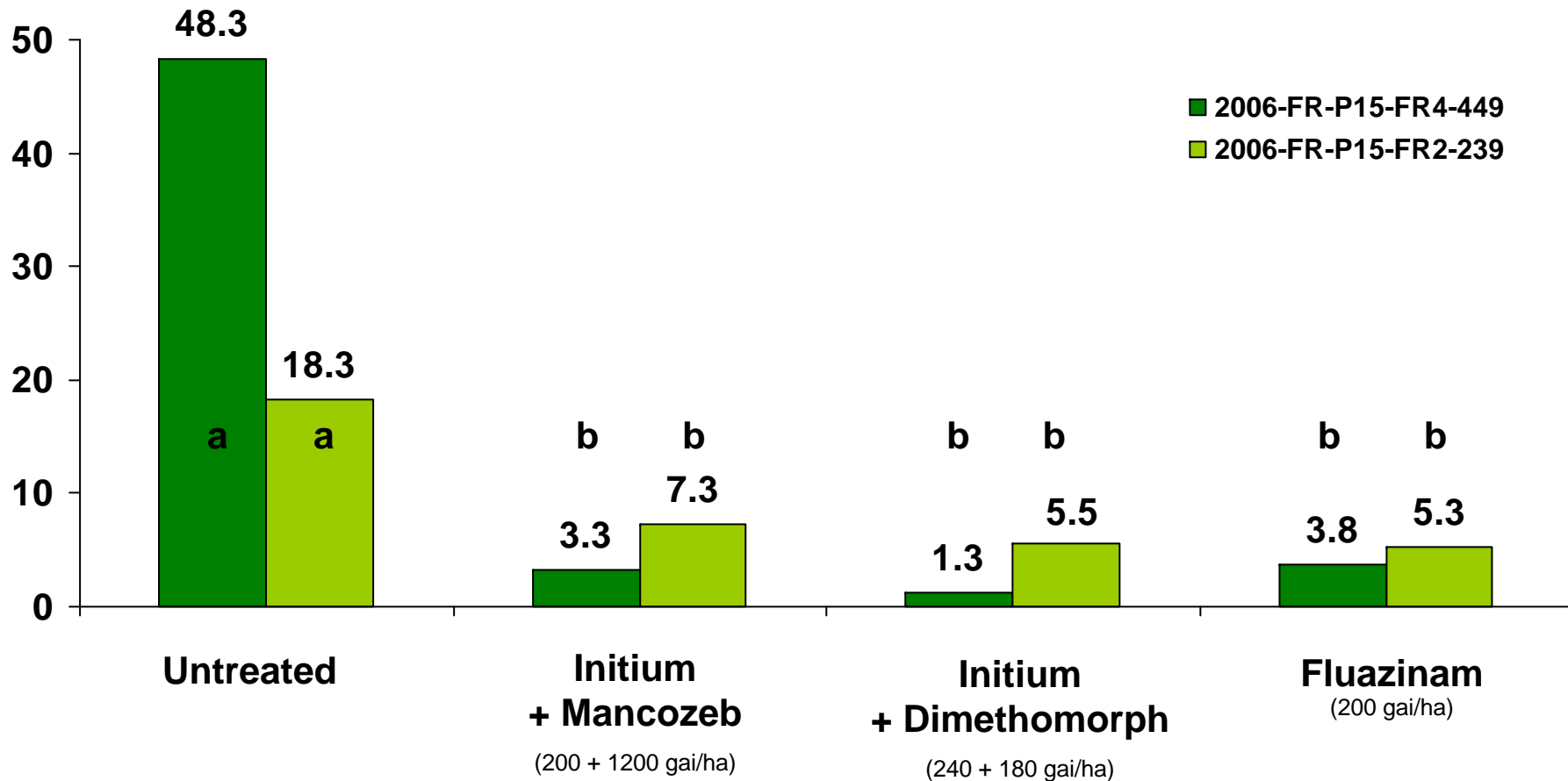




# Tuber blight trial

## FR, BASF 2006 (Saint Julien & Ligny Saint Flochel)

% tubers Infected  
(Weight at harvest)

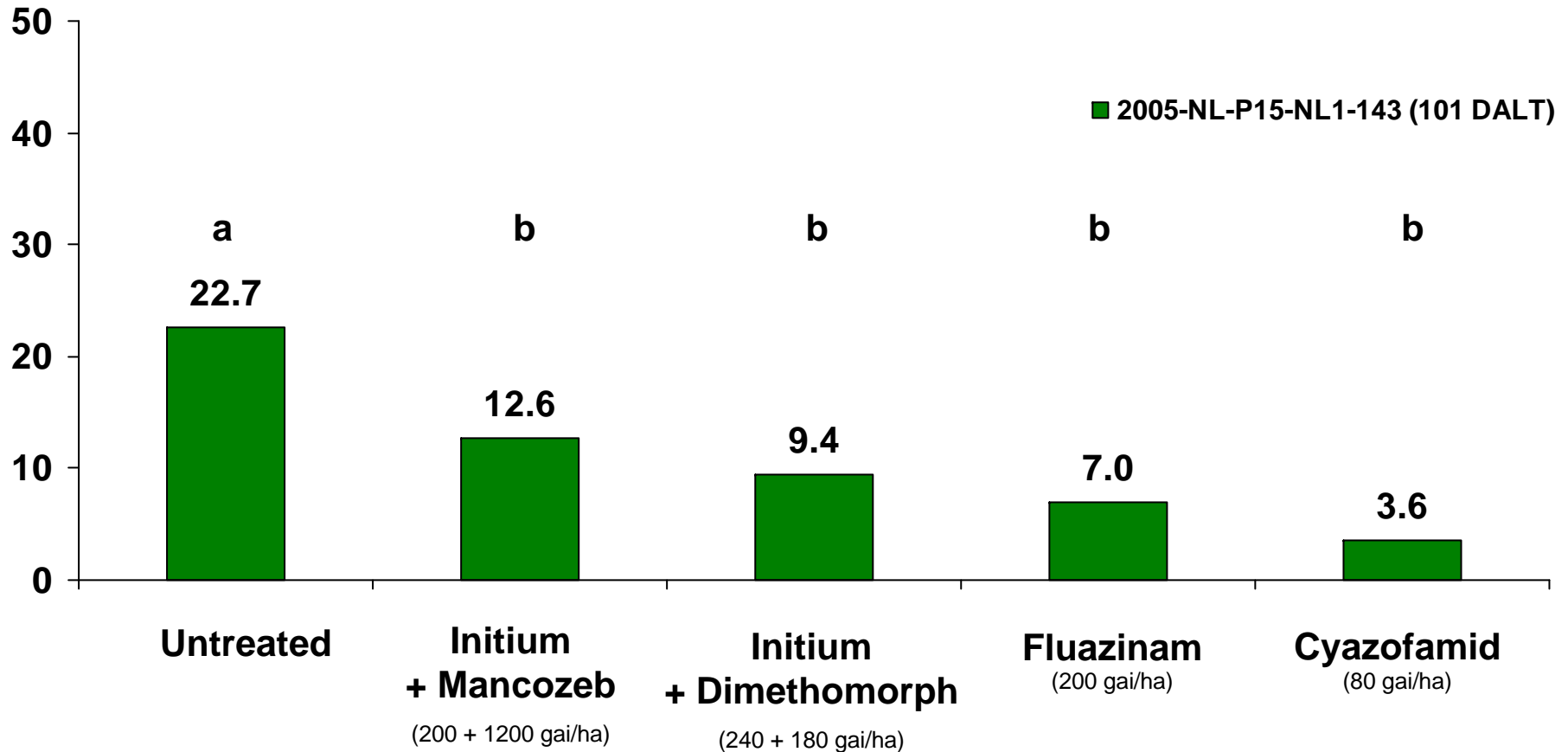


Statistik: SNK-test

# Tuber blight trial

## NL, Hulshof, 2005 (Valthermond)

% tubers Infected  
(Weight at harvest)

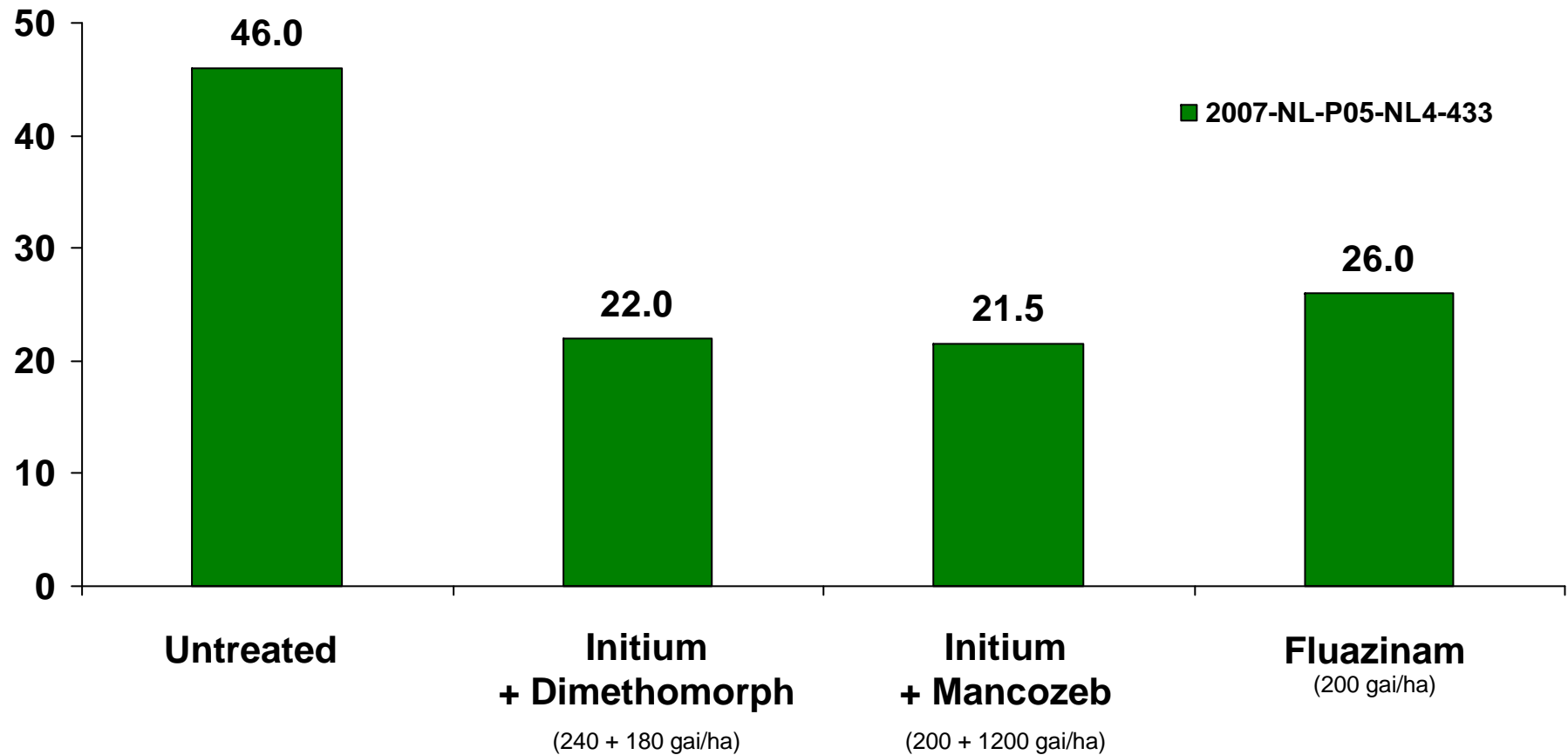


Statistik: SNK-test

# Tuber blight trial

## NL, BASF 2007 (Helvoirt)

% infected tubers



Statistik: SNK-test

# Overall Conclusions



- Foliar activity: the activity of both Initium products is comparable to the best market products.  
⇒ BAS 653 F got a preliminary Euroblight rating of 3.6 !
- Rainfastness: Initium products provide an excellent rainfastness comparable to Revus and Ranman.  
⇒ Therefore a rainfastness rating of ●●● was proposed
- Tuber Blight: First trial results have shown that the tuber blight control provided by the Initium<sup>®</sup> products is on the same level as Shirlan.  
⇒ Therefore a tuber blight rating of ●●● was proposed



# Initium® ..

**forms a premium preventive shield  
FOR THE CROP**

**offers confidence and  
convenience  
FOR THE GROWER**

**initium**®  
FUNGICIDE



**has a favourable profile  
FOR THE ENVIRONMENT**

**A Plus for you**