



Revus Top

A new product for the control of *P. infestans* and *Alternaria* in potatoes in Europe.

Bouwman J.J, Meier-Runge F , Strypstein C & Gonzalez F.

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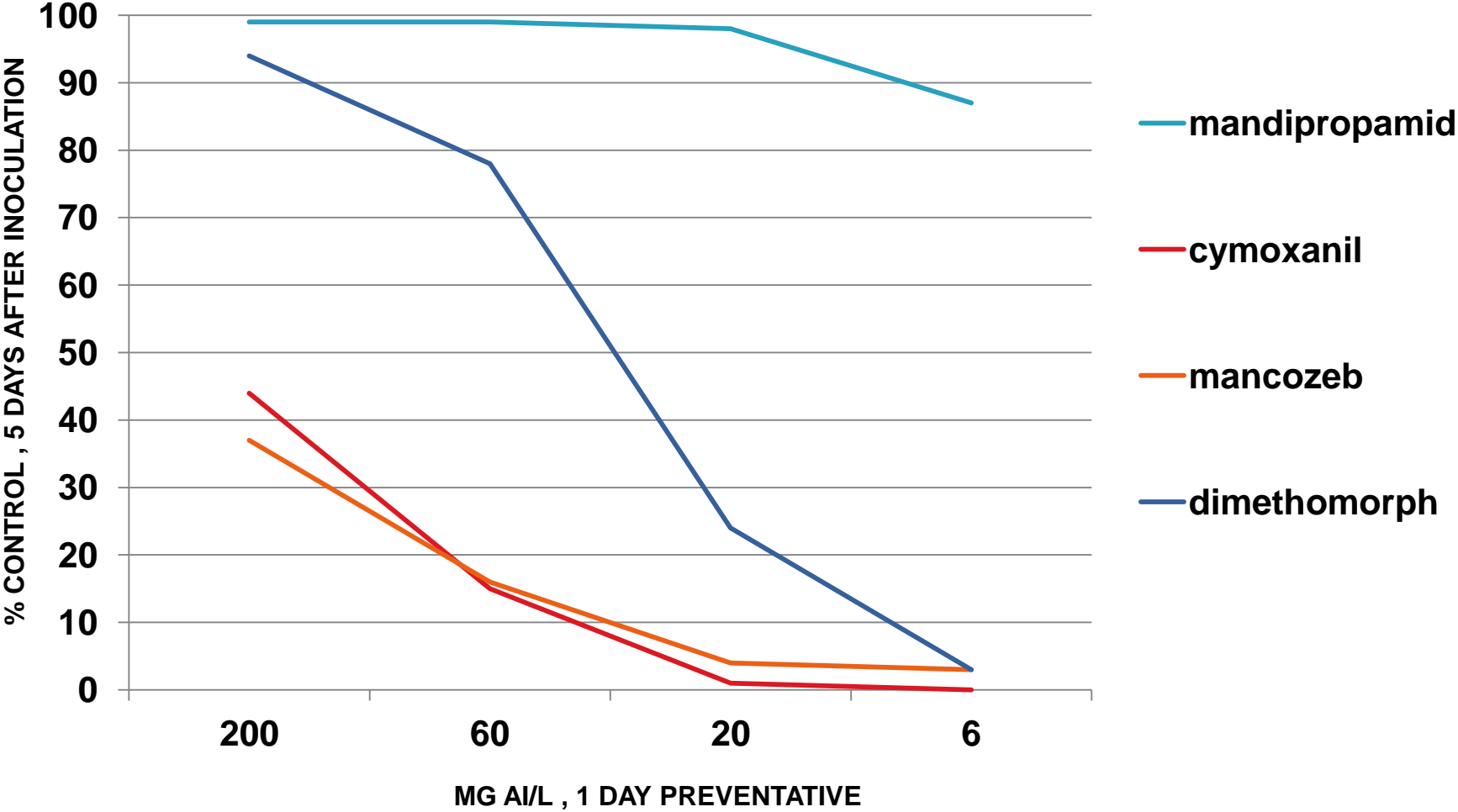
Mandipropamid

- gives inhibition of cellulose biosynthesis
- is highly active on spore germination
- is specific to Oömycetes
- is residual and preventative with some translaminair activity
- has a high affinity to the wax layer and strong rain fastness properties
- is registered against *P. infestans* since 2006 in most EU countries

Difenoconazole

- gives inhibition of the sterol biosynthesis in cell membranes
- is translaminair, preventative and curative
- is not active on Oömycetes
- is quickly taken up in the plant tissue
- is registered in South Europe against *Alternaria* in potatoes
- and in almost all EU countries against *Alternaria* in a variety of vegetables

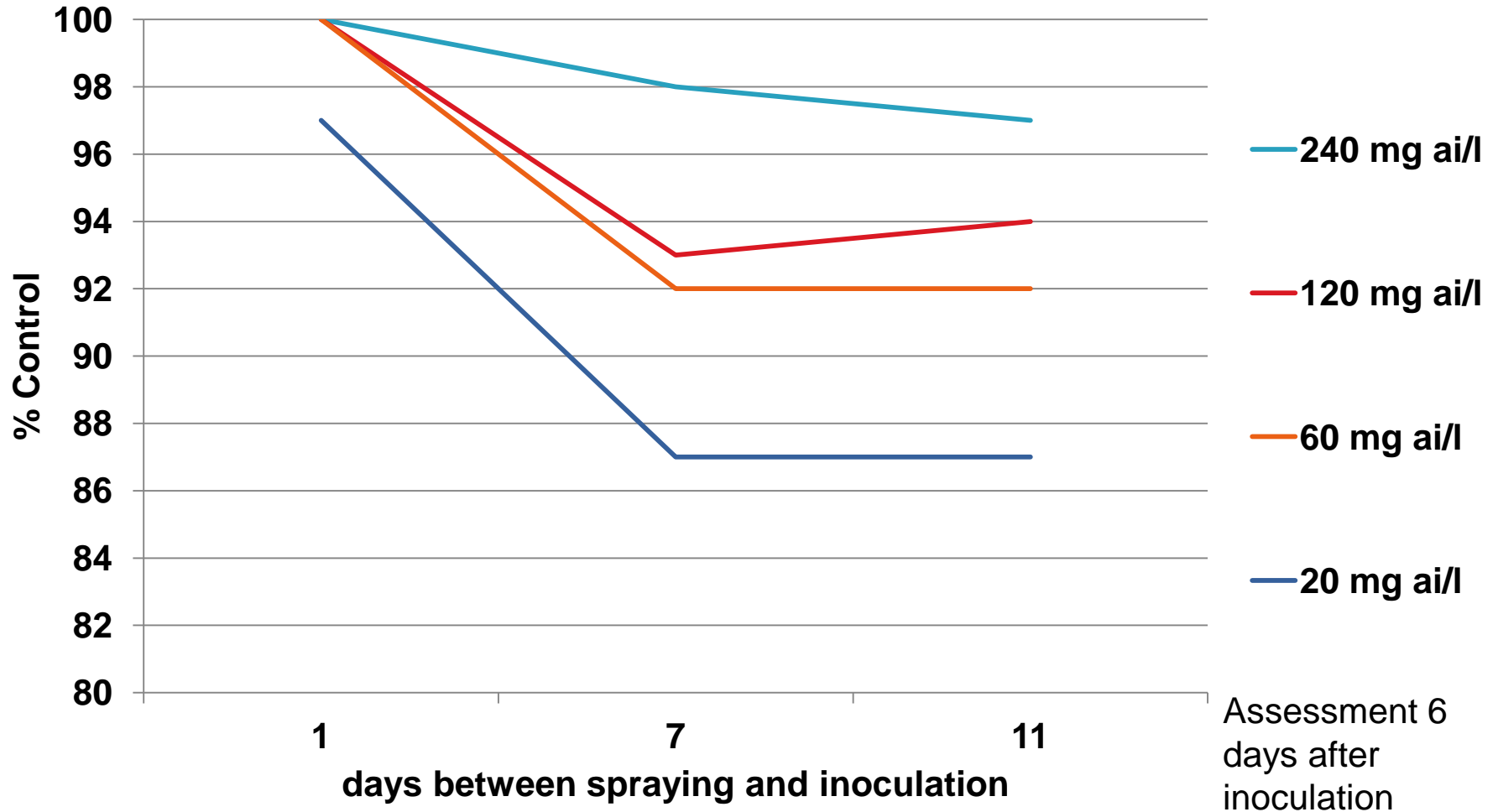
Comparison efficacy of several active ingredients against Late Blight - Preventative



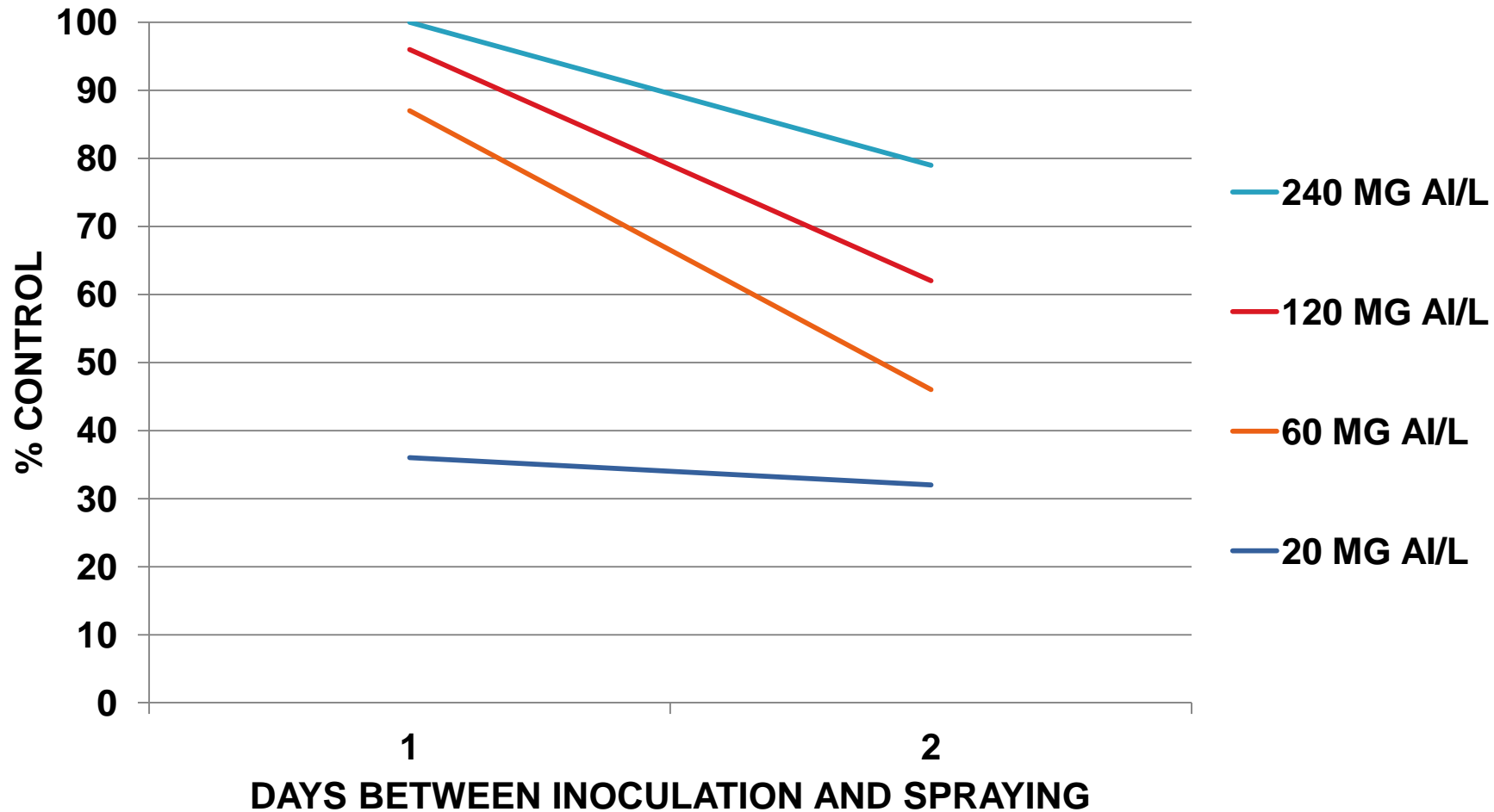
Mandipropamid is very strong late blight compound



Difenoconazole against Early Blight (*A. solani*) - Preventative

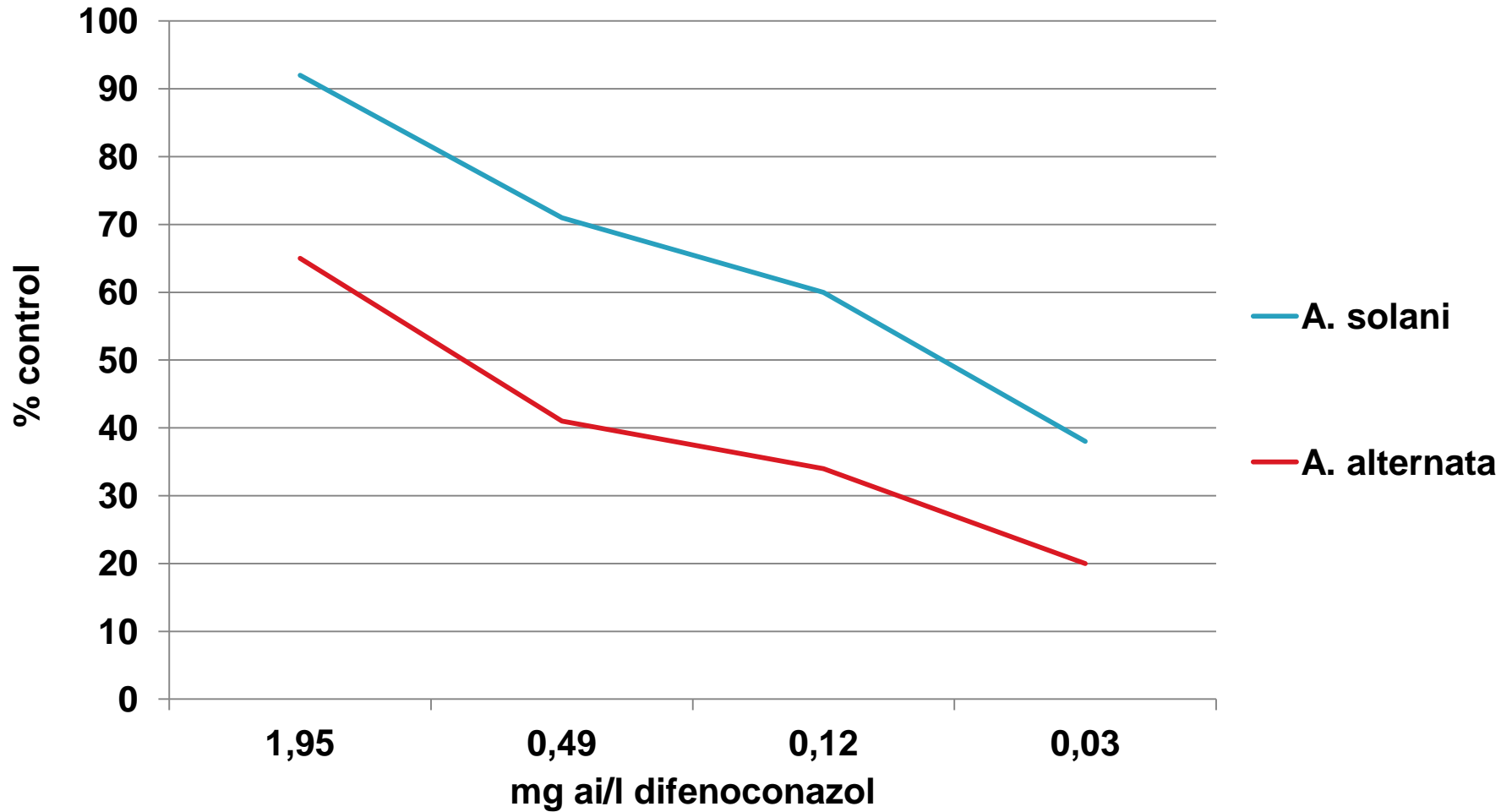


Difenoconazole against Early Blight (*A. solani*) - Curative



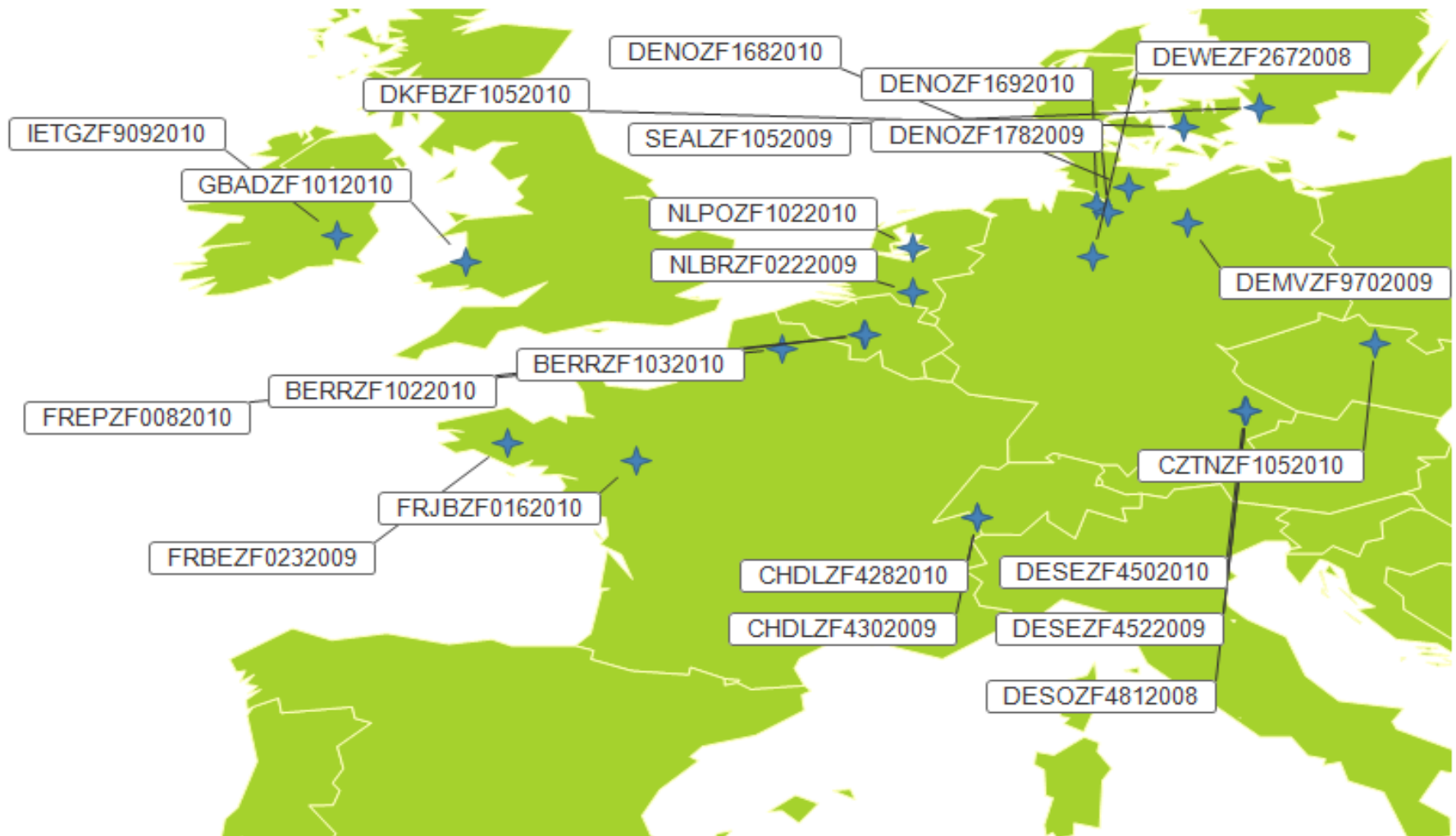
Difenoconazole is very strong early blight compound

Difenoconazole efficacy on *A. solani* and *A. alternata*

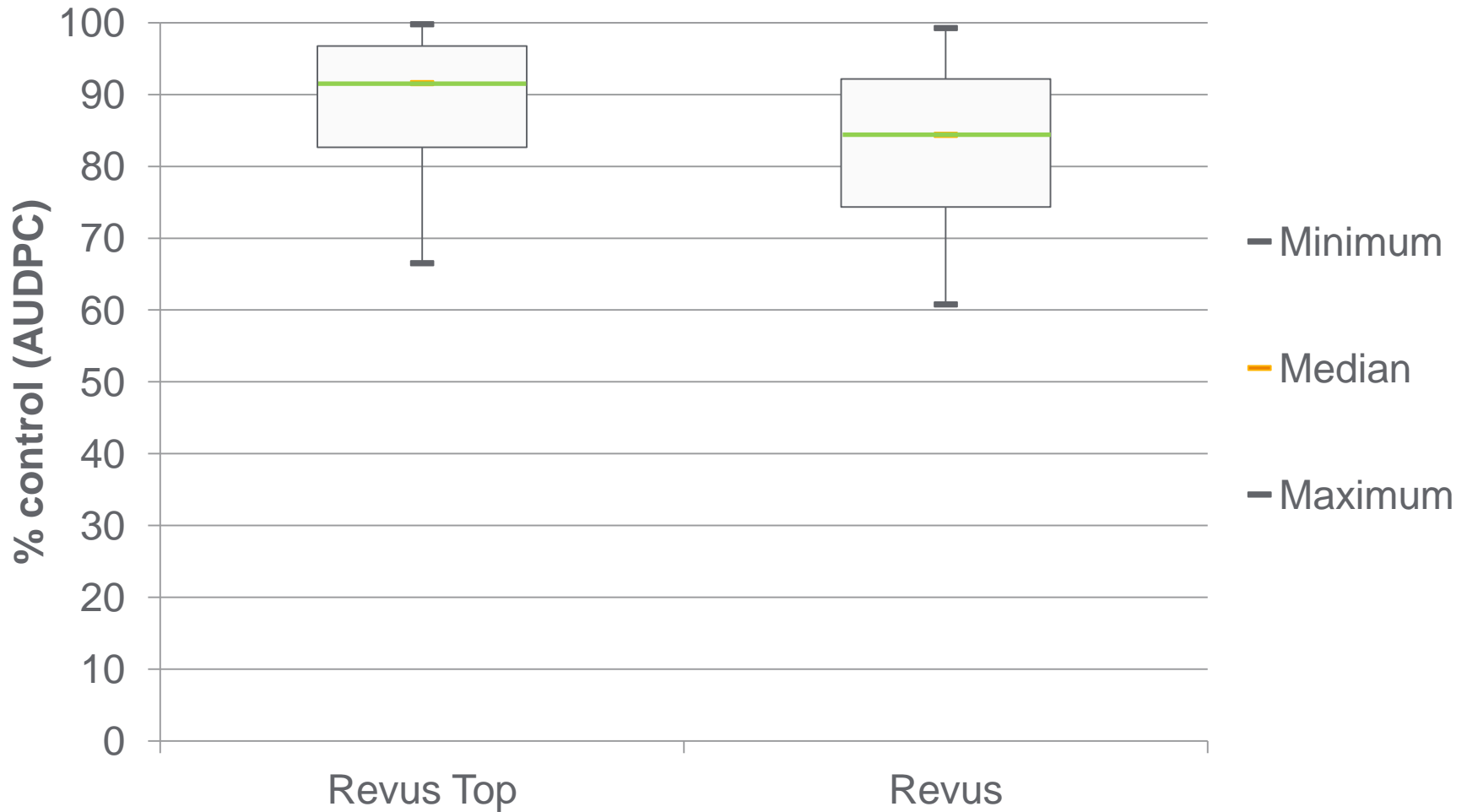


Difenoconazole is more active on *A. solani*

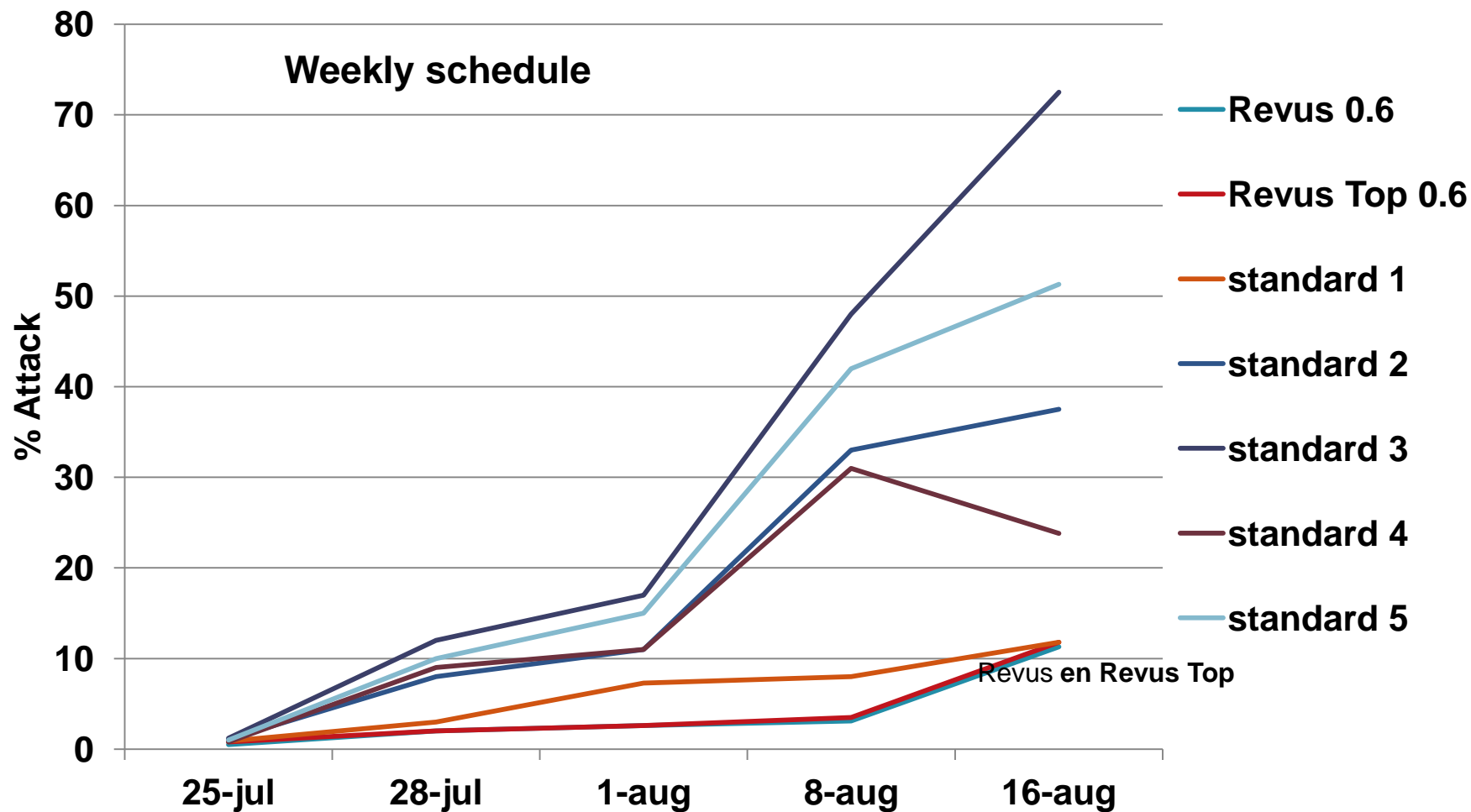
22 trials with Late Blight were distributed in the major potato growing regions



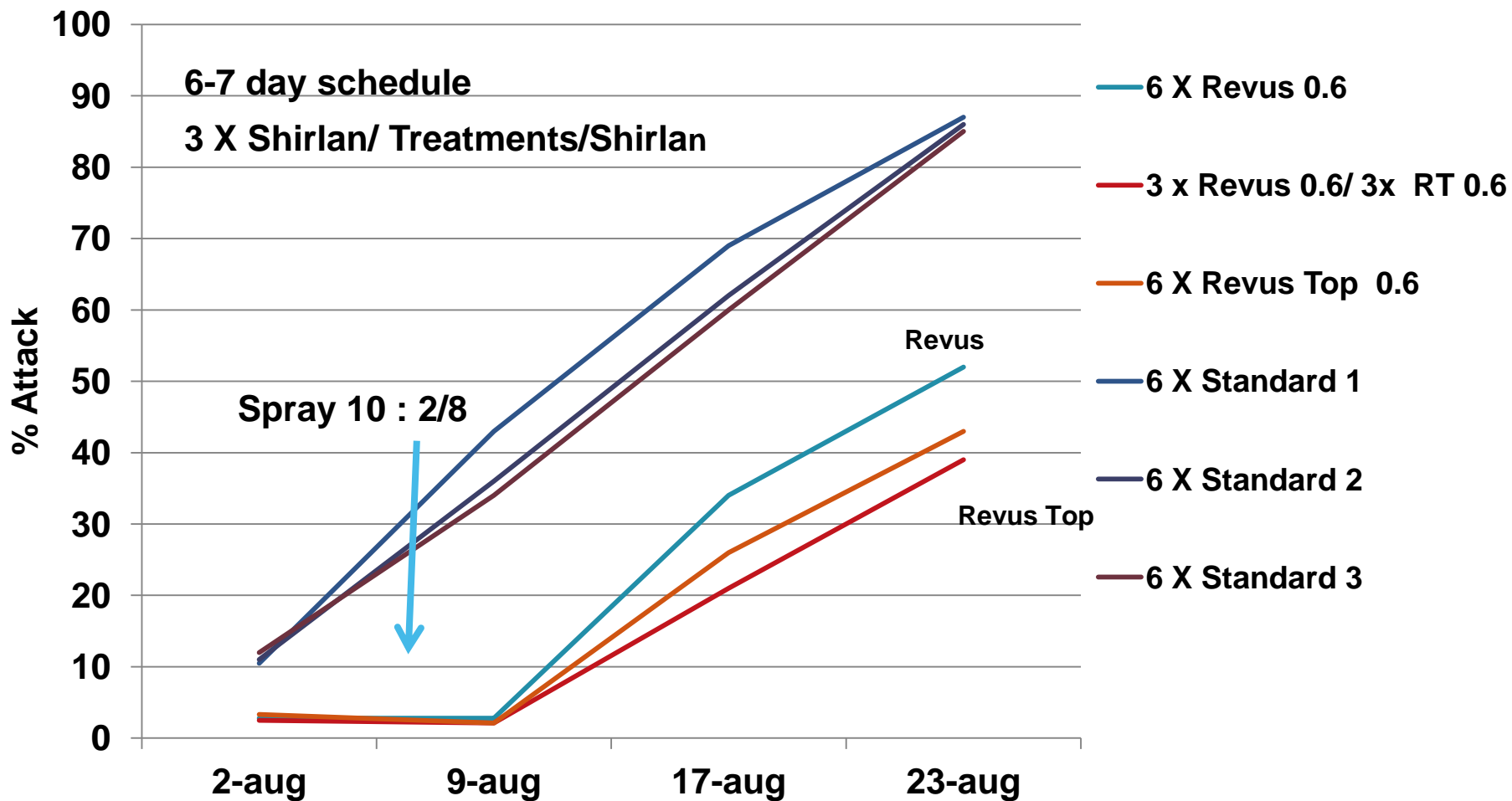
Efficacy of Revus Top and Revus against Late Blight (n=22)



Control of *Phytophthora infestans* in potatoes (2011 - Benelux)



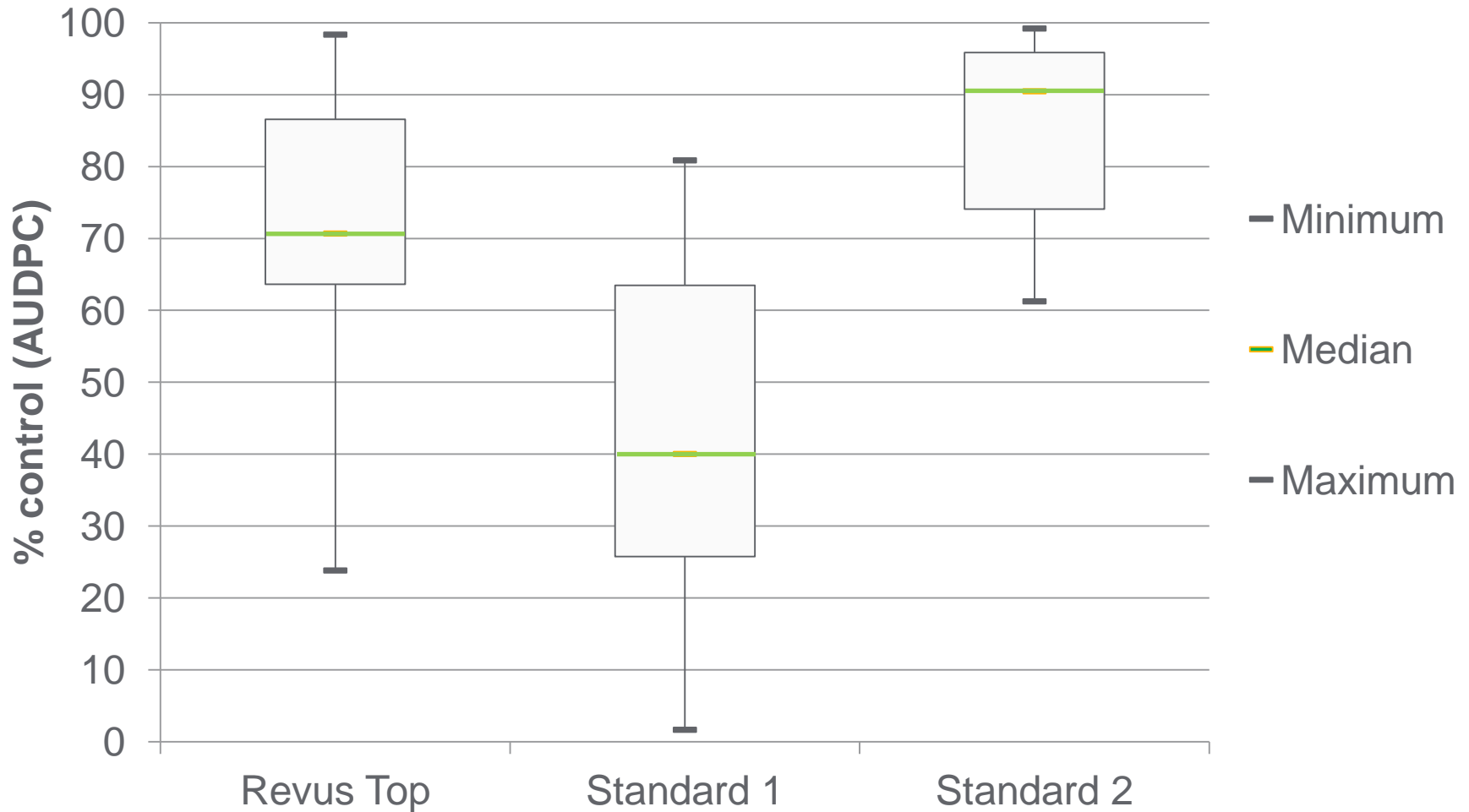
Control of *Phytophthora infestans* in potatoes (2011 - Benelux)



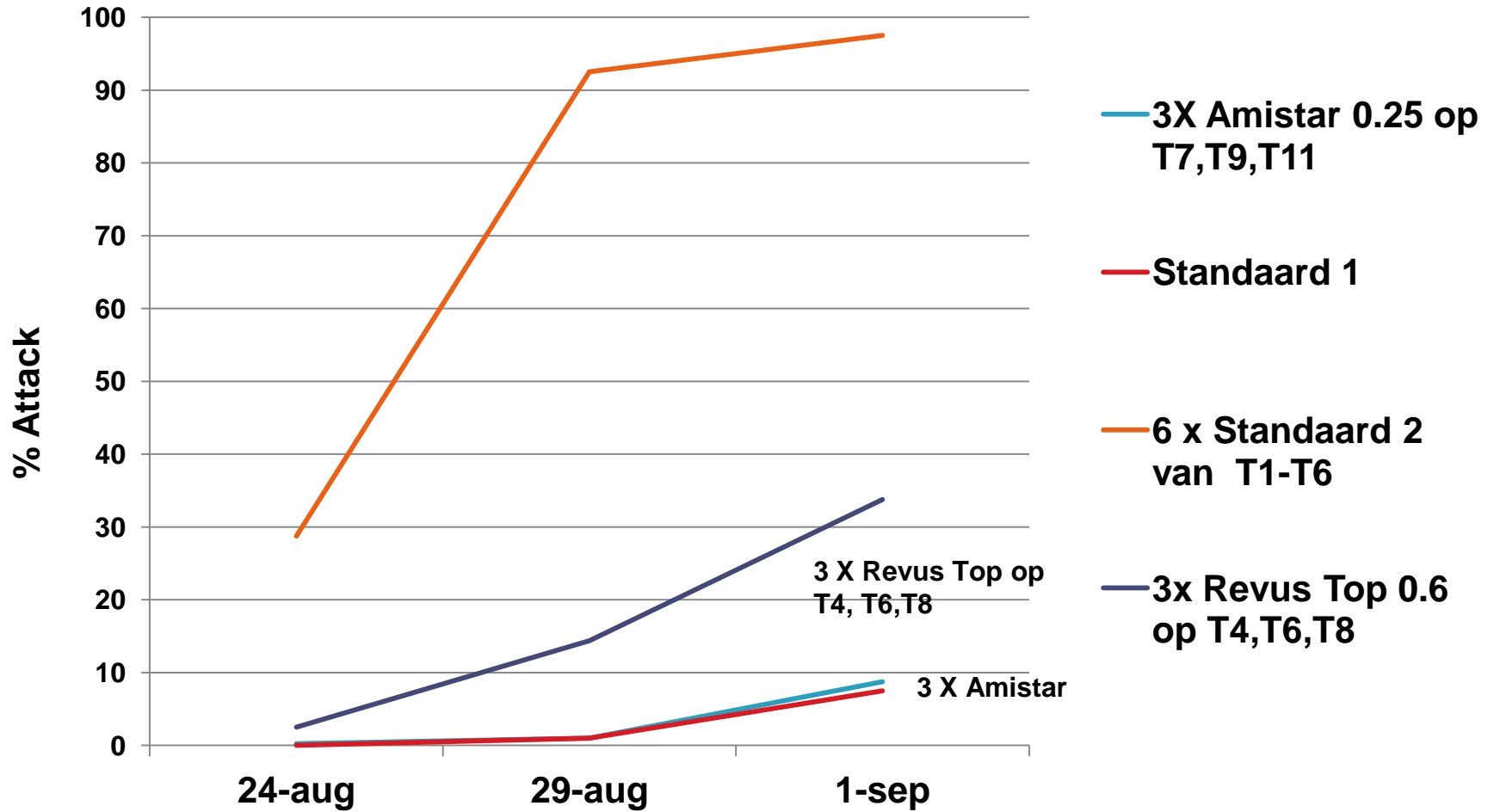
13 location of the Early Blight trial sites



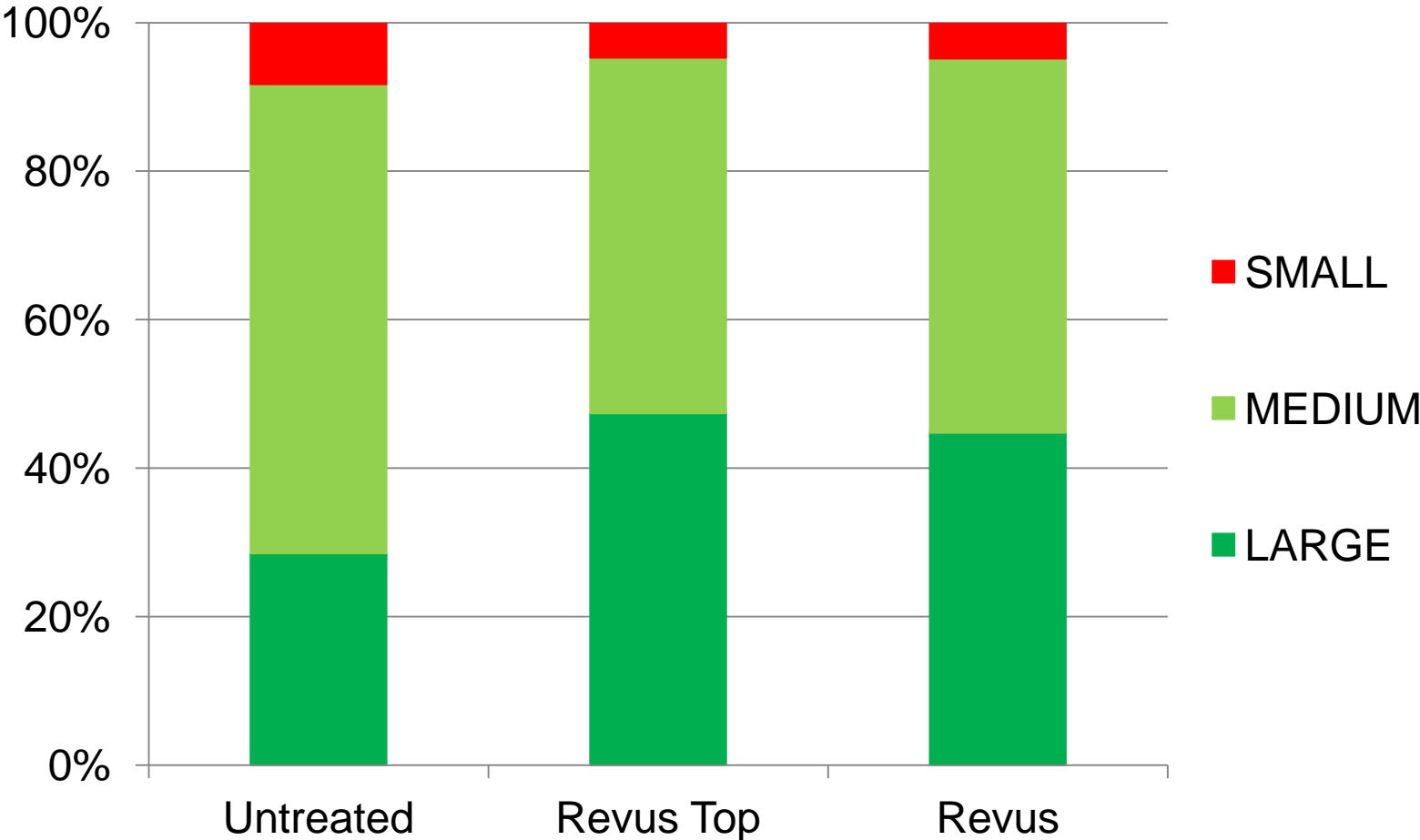
Efficacy of Revus Top and reference products against Early Blight (n=9)



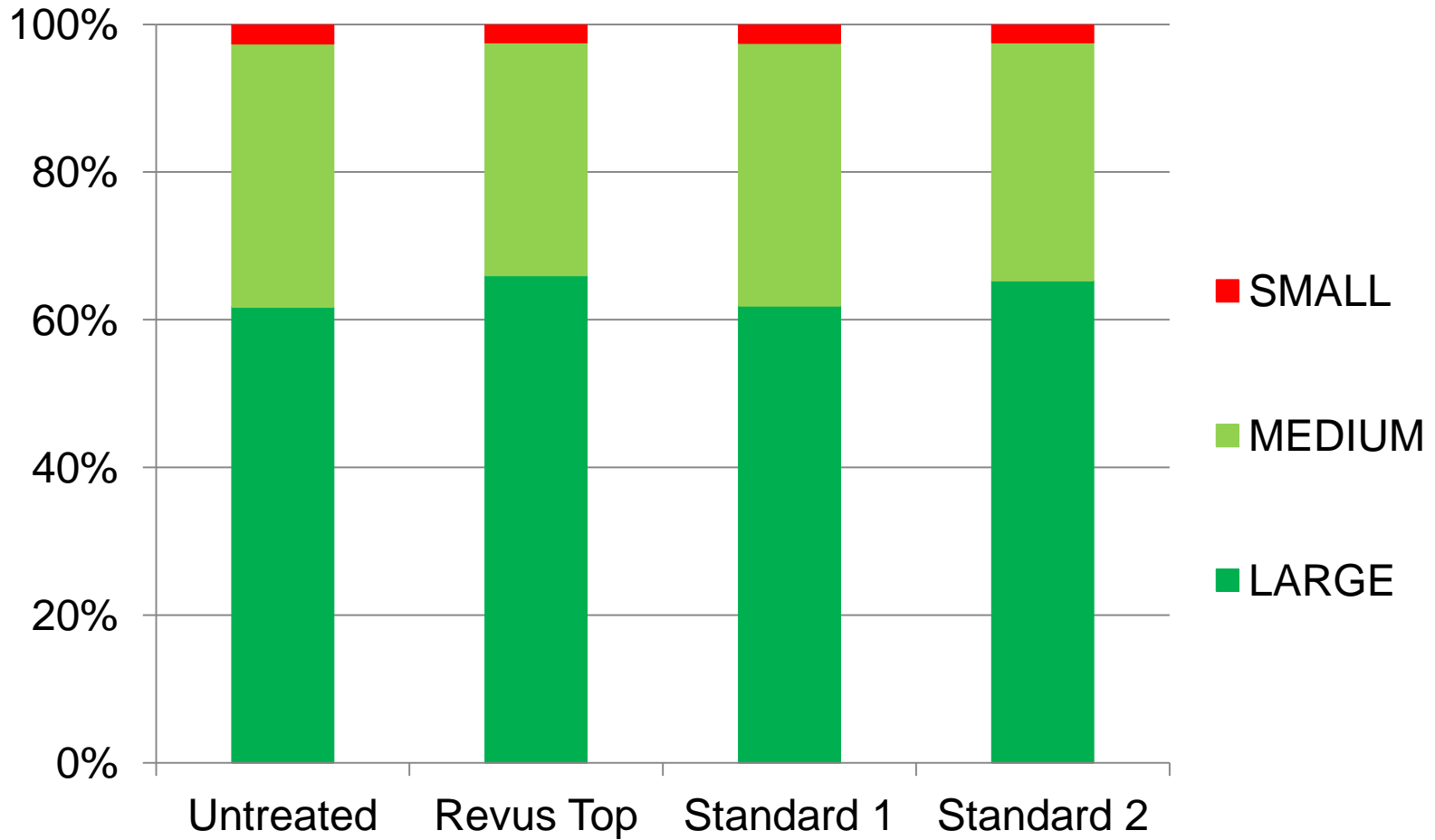
Control of *Alternaria solani* in potatoes (2011 - Benelux)



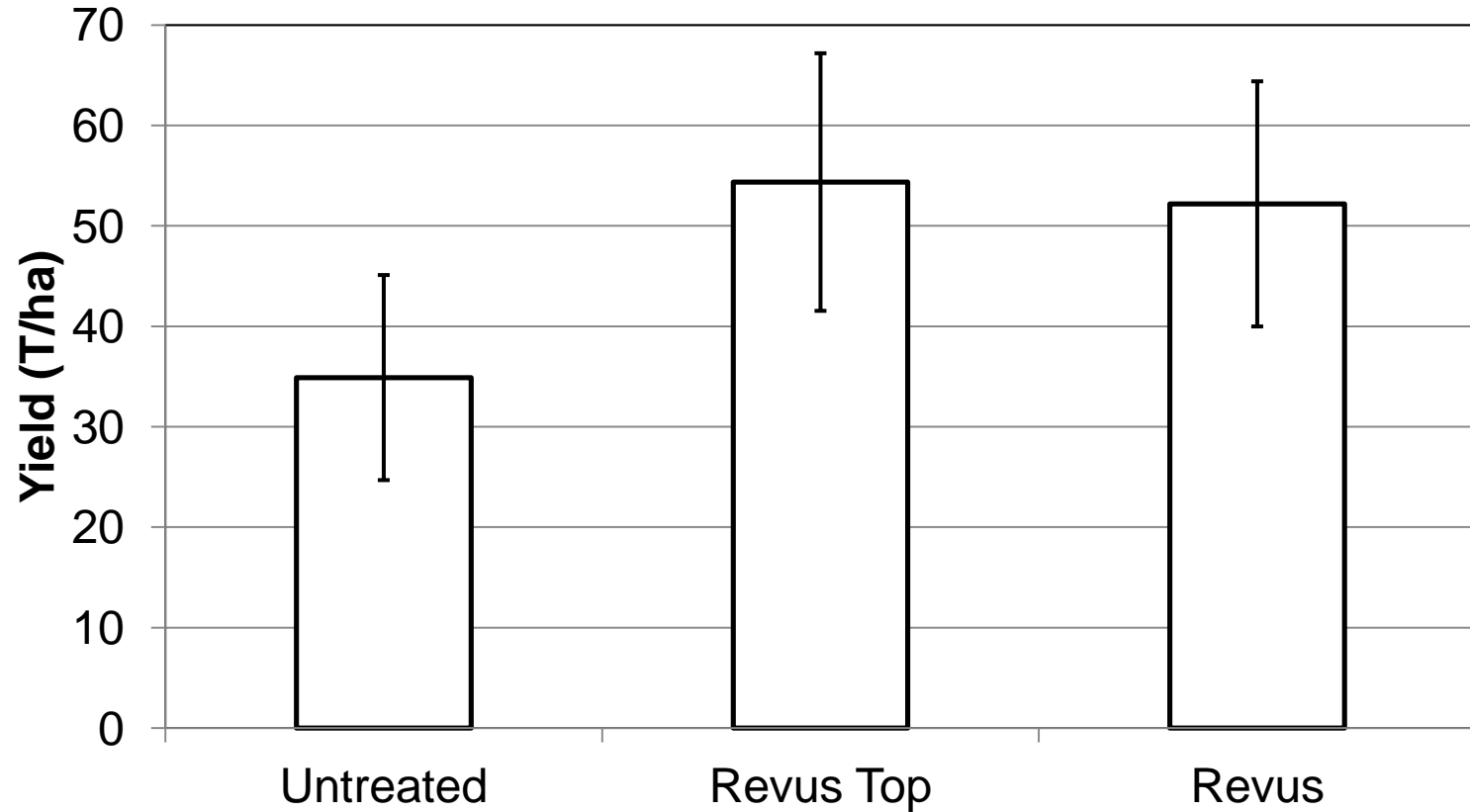
Size distribution of tubers from plots treated with Revus Top or Revus in potato Late Blight trials (n=16)



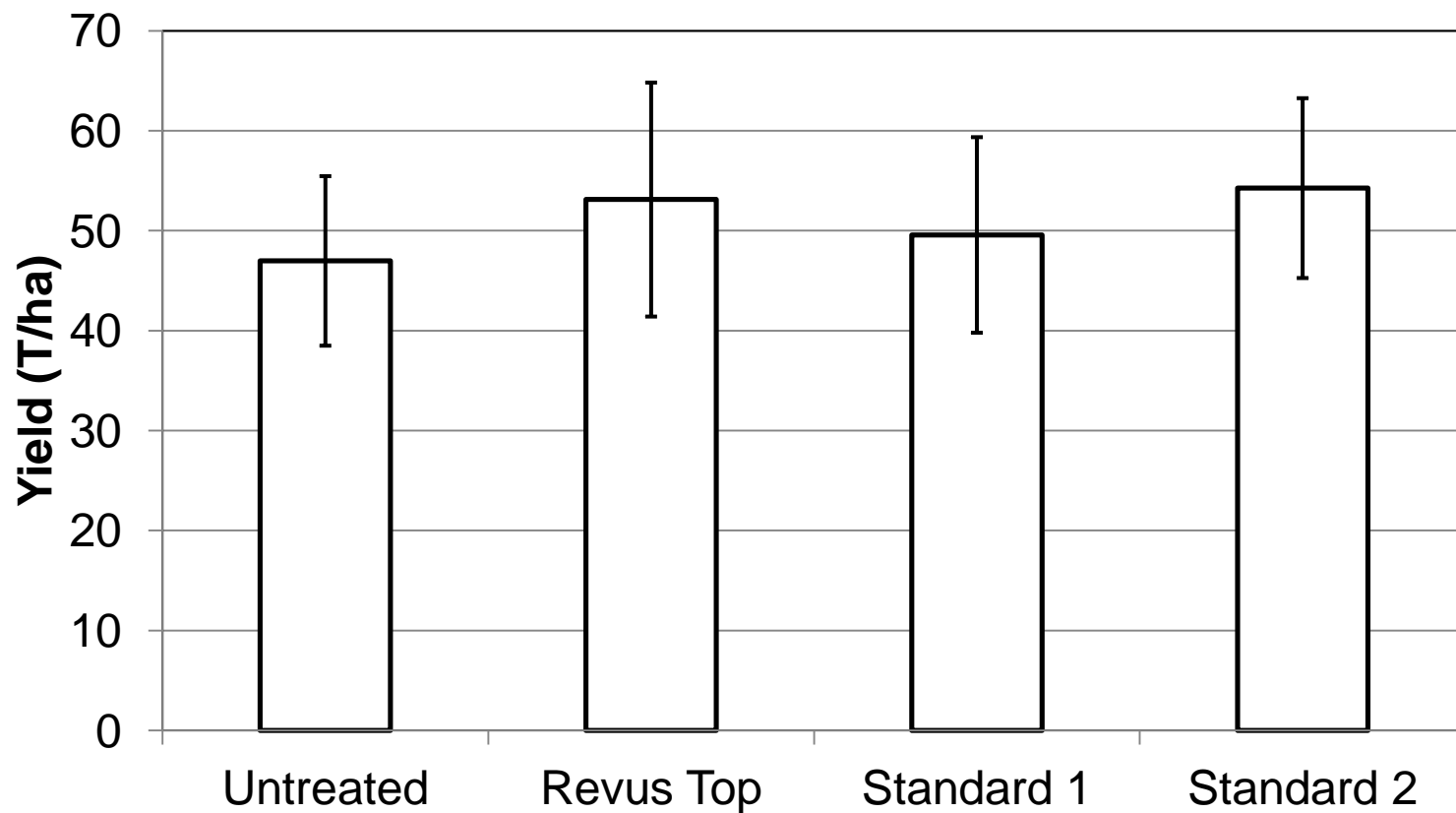
Size distribution of tubers from plots treated with Revus Top, and reference compounds in potato Early Blight trials (n=6)



Yield data in potatoes in presence of Late Blight (n=18)



Yield data in potatoes in presence of Early Blight (n=9)



Other factors of importantants

- Revus Topin 35 trials in 11 different countries with 19 different varieties shows no adverse or phototoxic effects observed .
- Revus Top..... is not harmful to honeybees
- Revus Top..... is safe to *Aphidius rhopalosiphi*, *Typhlodromus pyri*, earthworms and soil micro-organisms.
- Revus Top..... has no negative impact on propagation material.
- Revus Top..... has no restrictions on following crops .
- Revus Top..... has no restrictions on adjacent crops.
- Revus Top..... has a low resistance risk for mandipropamid/*P. infestans* and a medium risk for Difenoconazole/*A. sp.* the maximal number of three registered applications is regarded as sufficient to minimize selection, no additional anti-resistance strategies are deemed necessary.

In Summary

Revus Top is

effective against *Phytophthora* and *Alternaria* in potatoes

a new active ingredient against *Alternaria*

is safe for crop, yield and grading

is safe for beneficials

has no negative impact following crops

has low to medium resistance risks

registrations expected 2012 and 2013

Thanks for your attention



syngenta

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