



Field performance of Valbon against late blight in potatoes

Oct. 29-30, 2008

Euroblight Workshop

Hamar, Norway

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Agenda

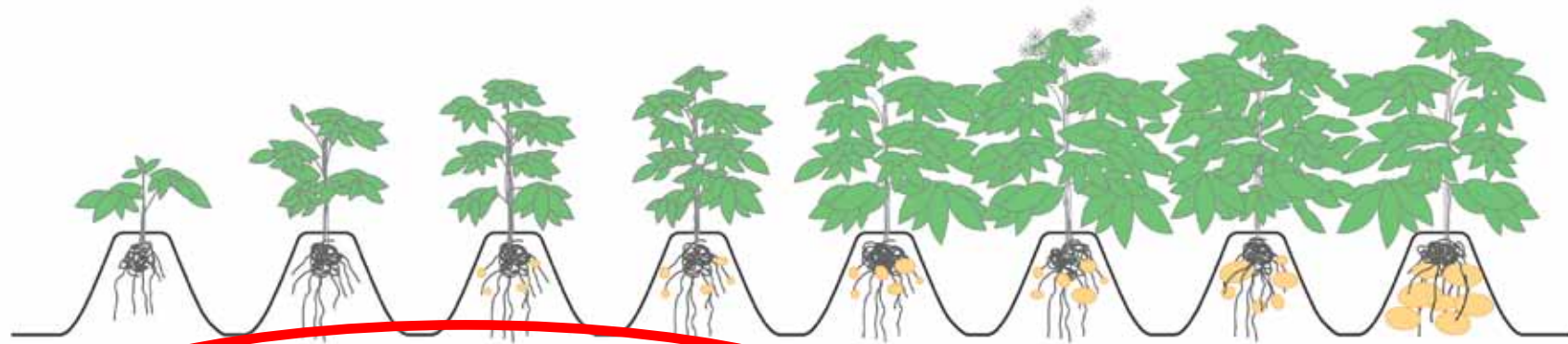
- **Introduction**
- **Valbon positioning**
- **Field performance 2005-2008**
 - **Kick-back**
 - **Rapid foliage development**
 - **Rainfastness**



Introduction

- **Benthiavalicarb-isopropyl**
 - Molecule discovered by Kumiai Chemical
 - FRAC: CAA fungicide
 - Inhibition of cell wall synthesis
- **Commercialized in mixtures with mancozeb**
 - **Netherlands:**
 - 1.25 % benthiavalicarb + 70 % mancozeb
 - Dose rate 1.5 – 2.0 kg/ha (25 + 1400 g ai/ha)
 - **Other countries:**
 - 1.75 % benthiavalicarb + 70 % mancozeb
 - Dose rate for potatoes: 1.6 kg/ha (28 + 1120 g ai/ha)

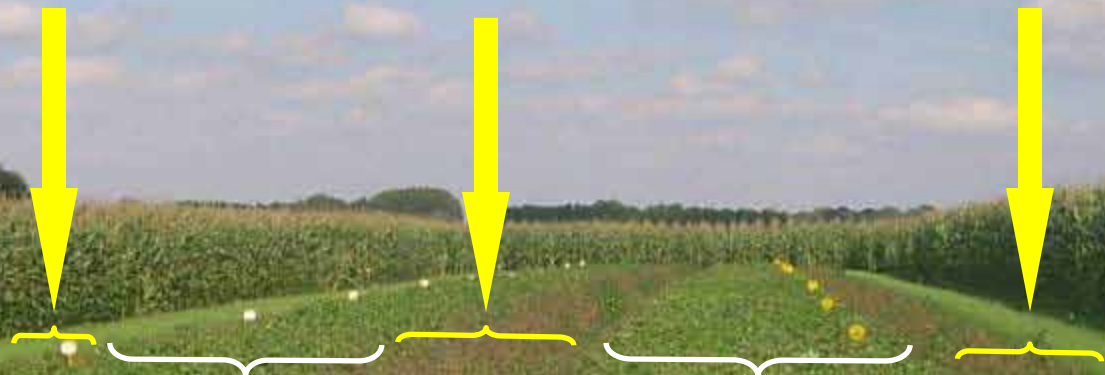
Valbon Positioning in spray scheme



Valbon 7-day interval

Tuber protectants

Infection rows



A

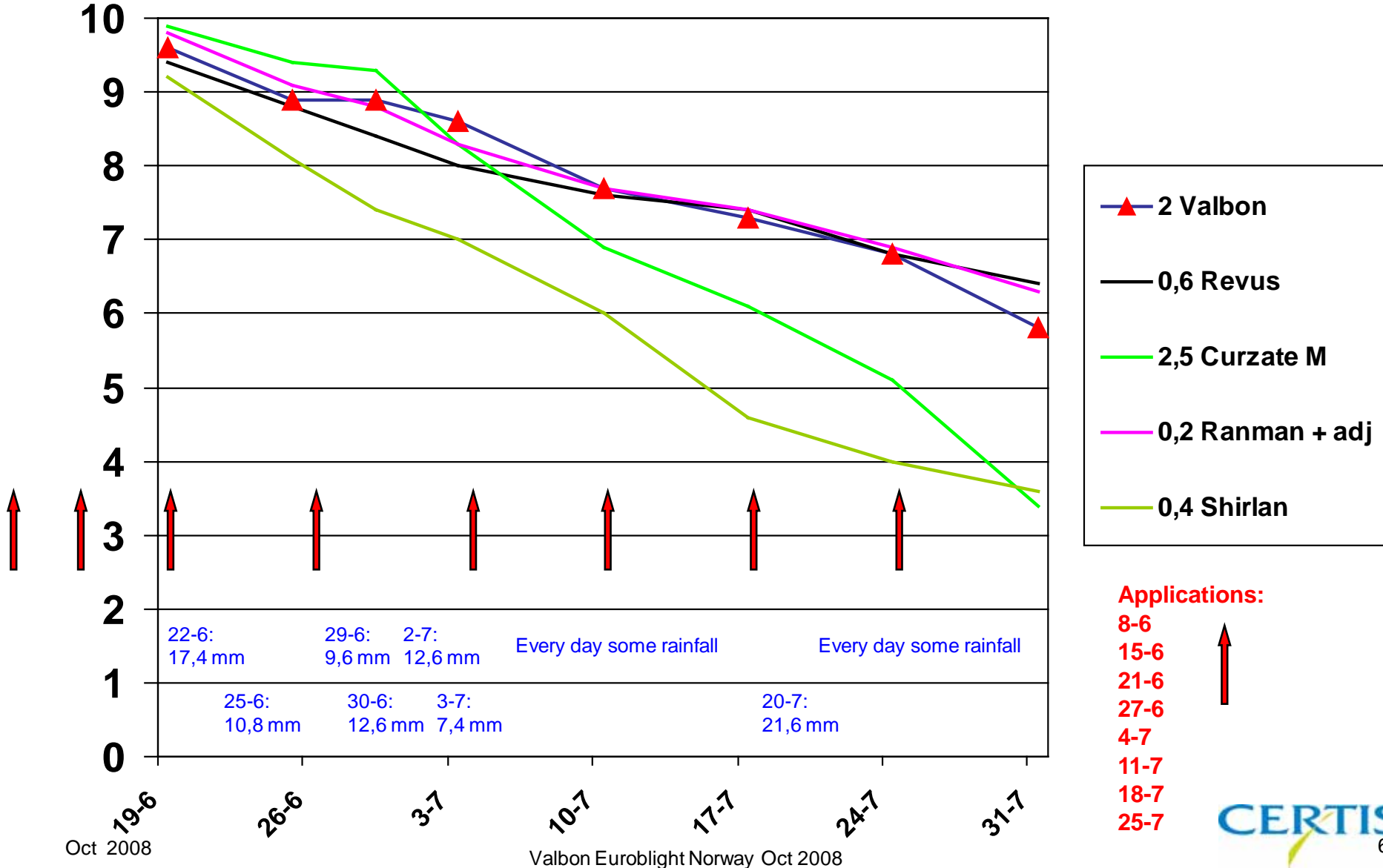
B

Plots in 2 x 2 rows



Valbon performance under early and heavy disease pressure

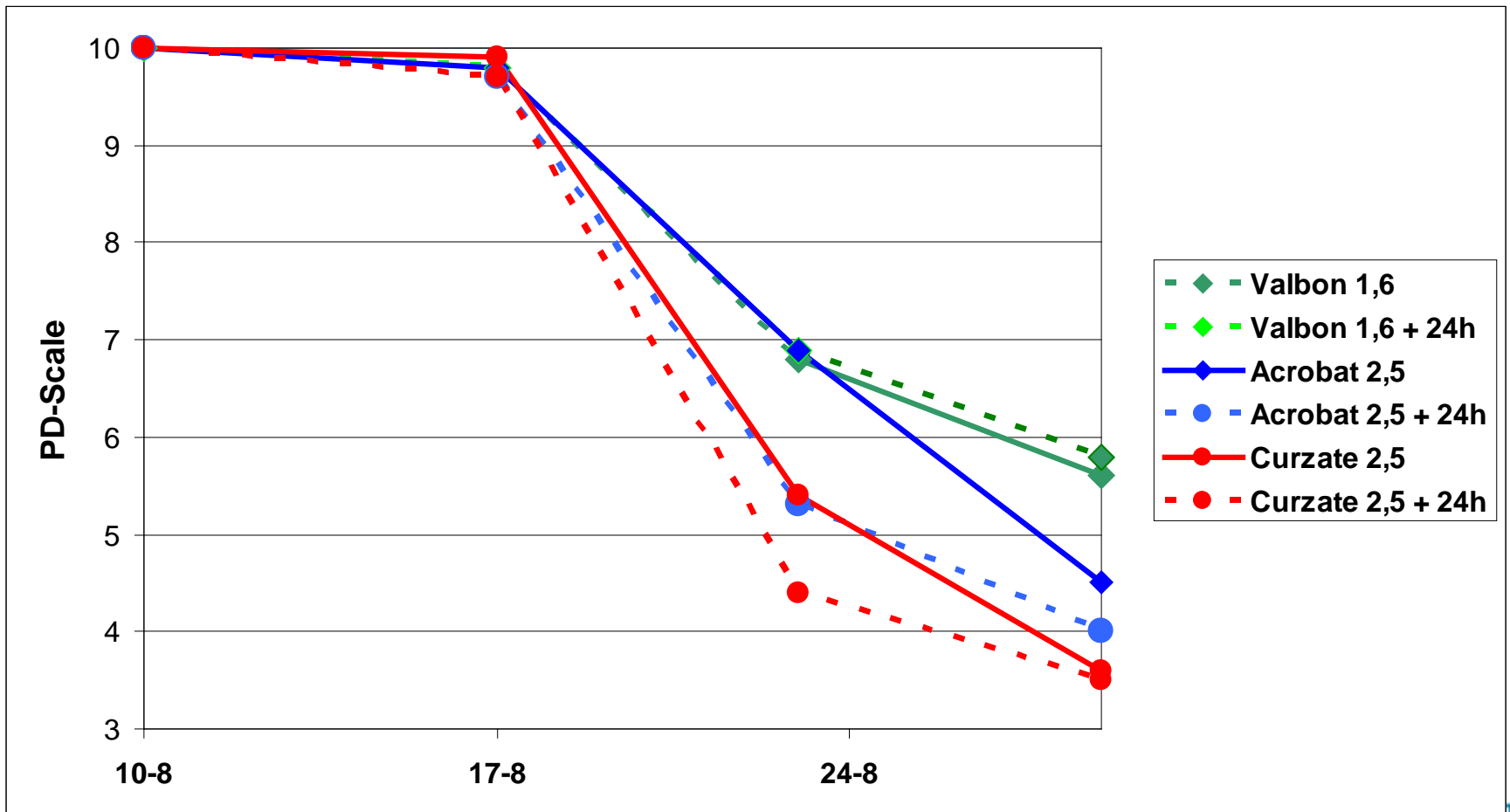
PPO Lelystad 2007, 7 day schedule





Kick-back activity of Valbon, CARAH 2006

July 4, last preventative trmt. Infection pressure very high from Aug. 3 onwards.
 Penetrant fungicide applications from Aug 17 onwards @ 5 – 7 d intervals.





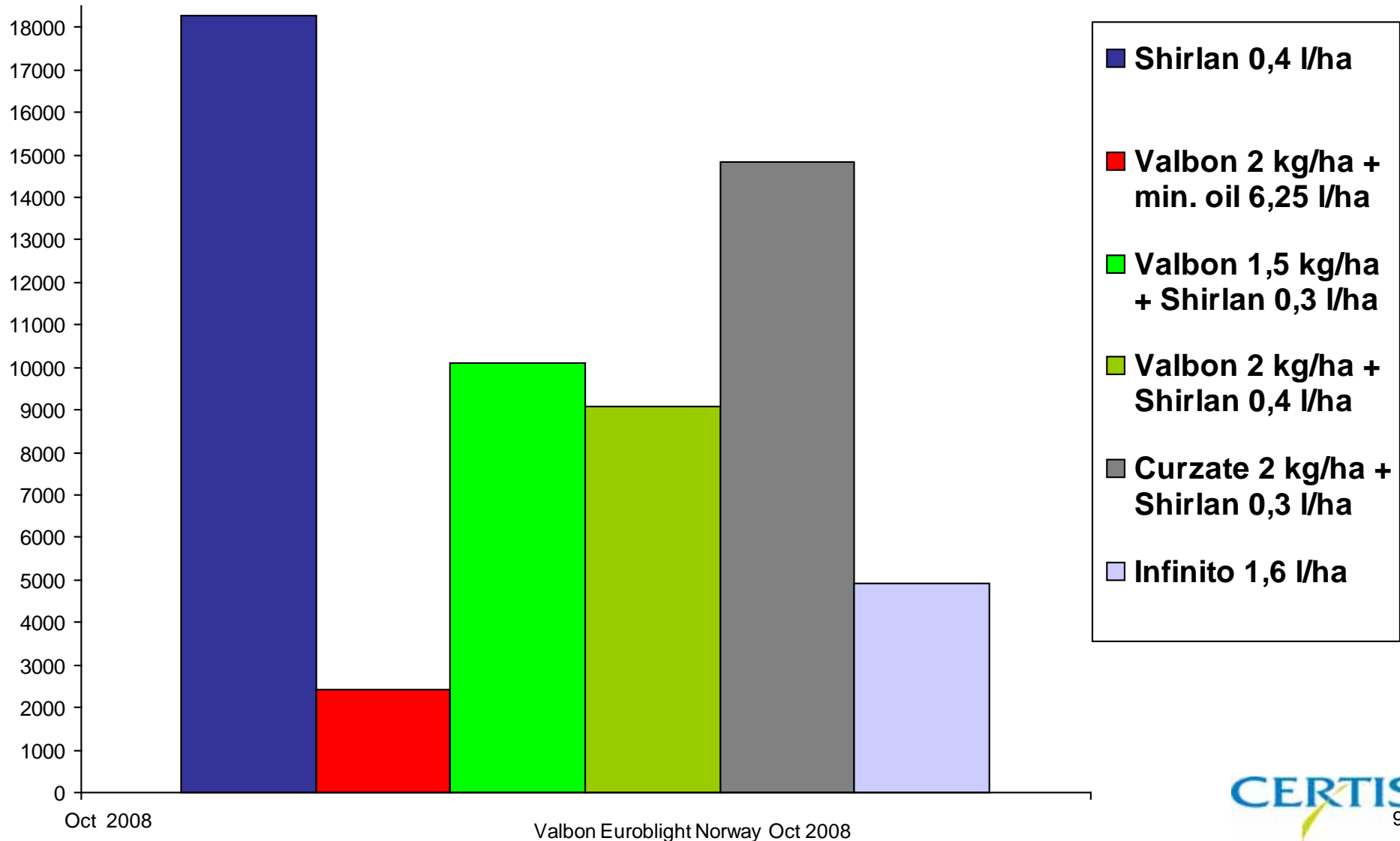
Reduction of sporulation on potatoes





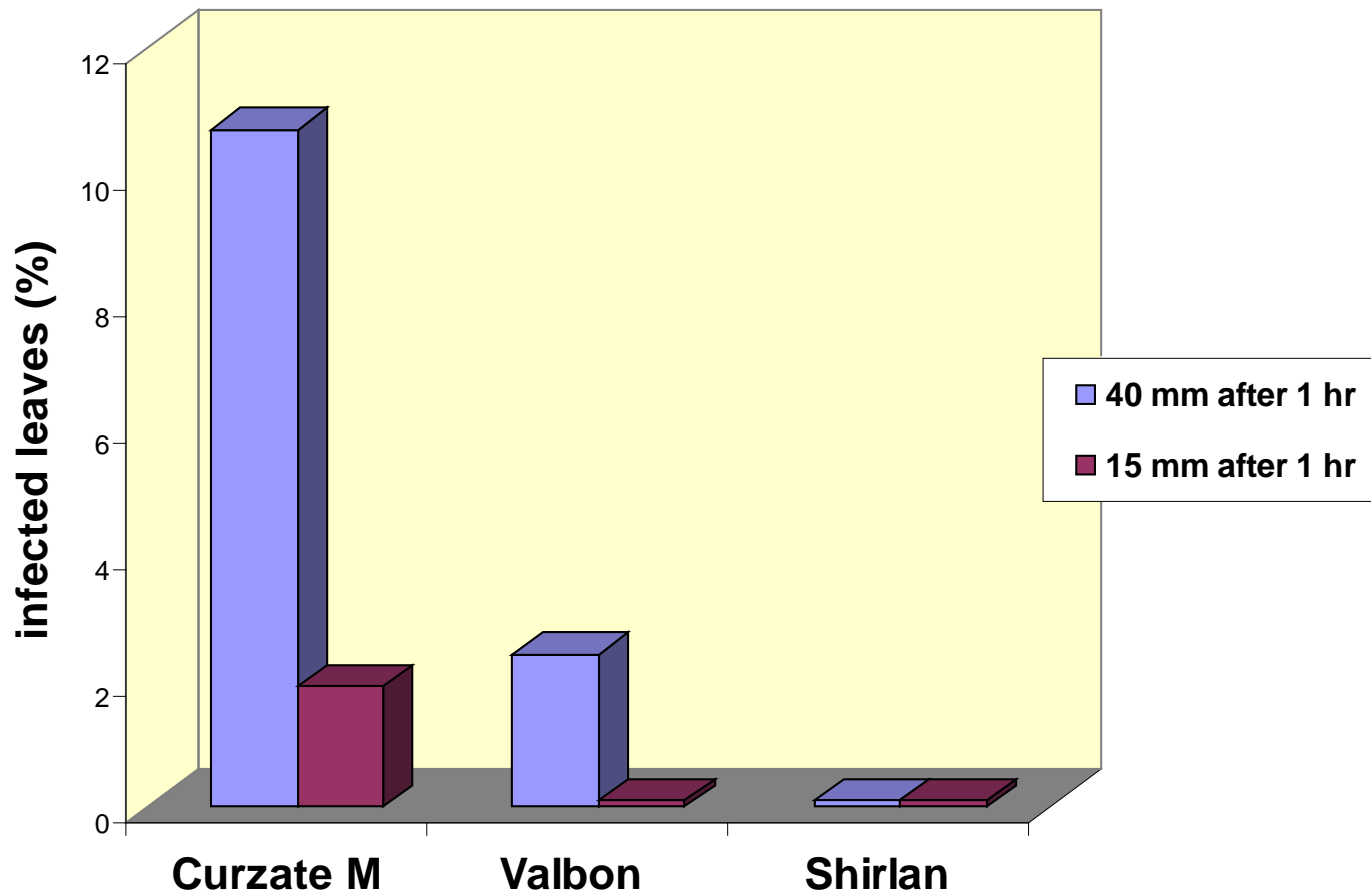
Wash of *Phytophthora* spores from infected leaves [HLB, July 10 2007]

[spores/mm²]





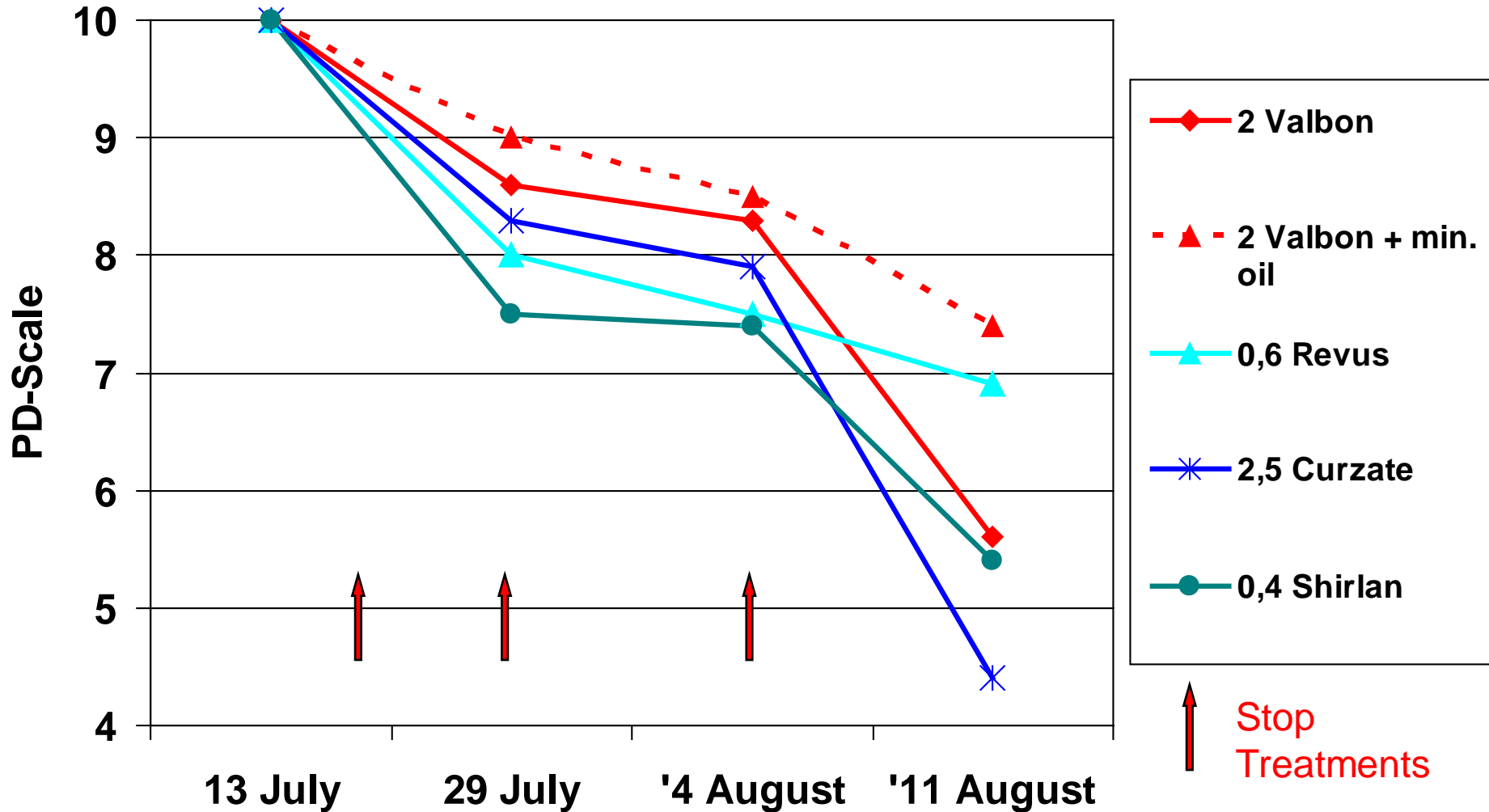
Rainfastness of Valbon HLB, 2004





HLB Netherlands 2008

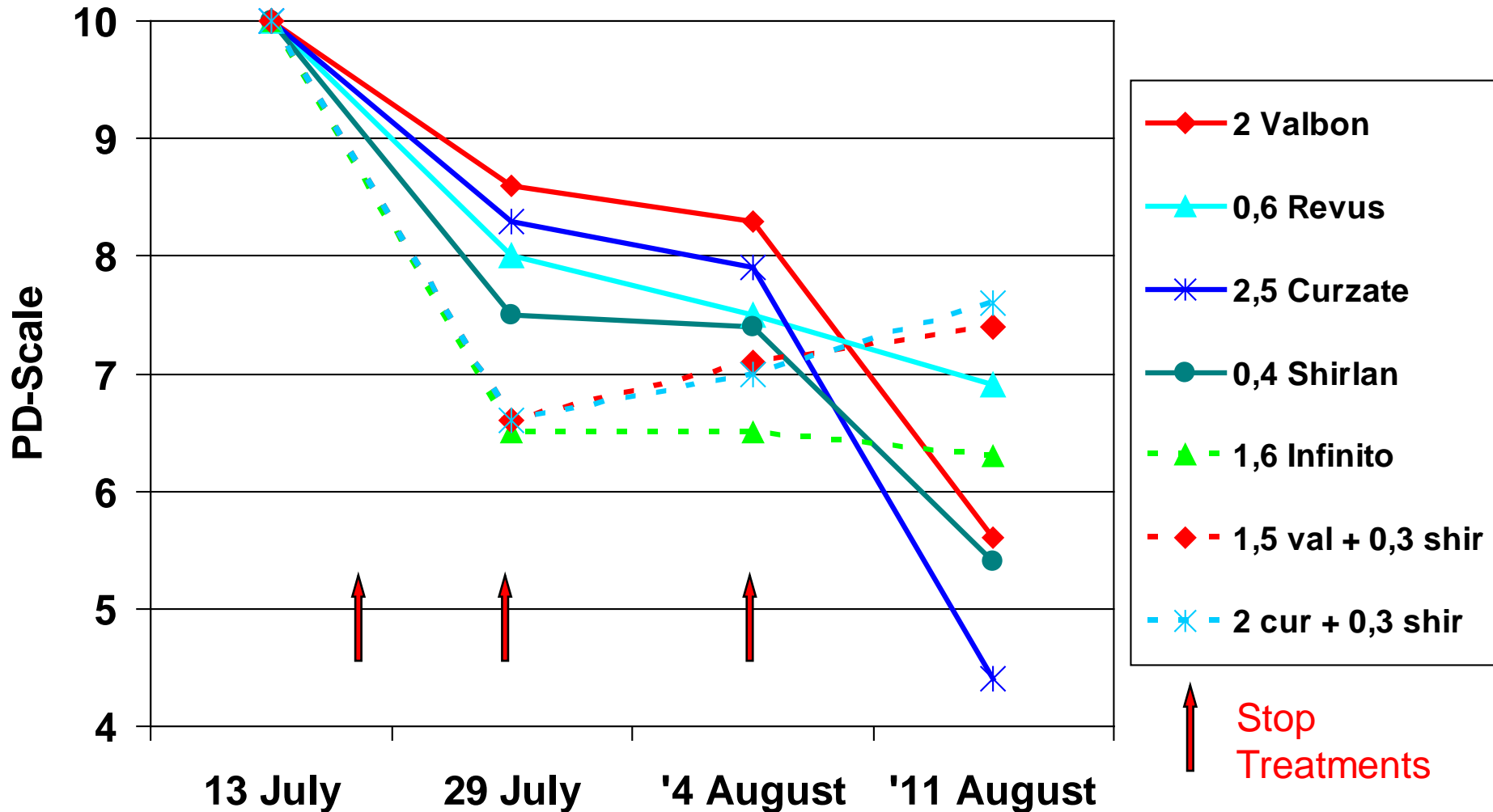
Stop Treatments





HLB Netherlands 2008

Stop Treatments





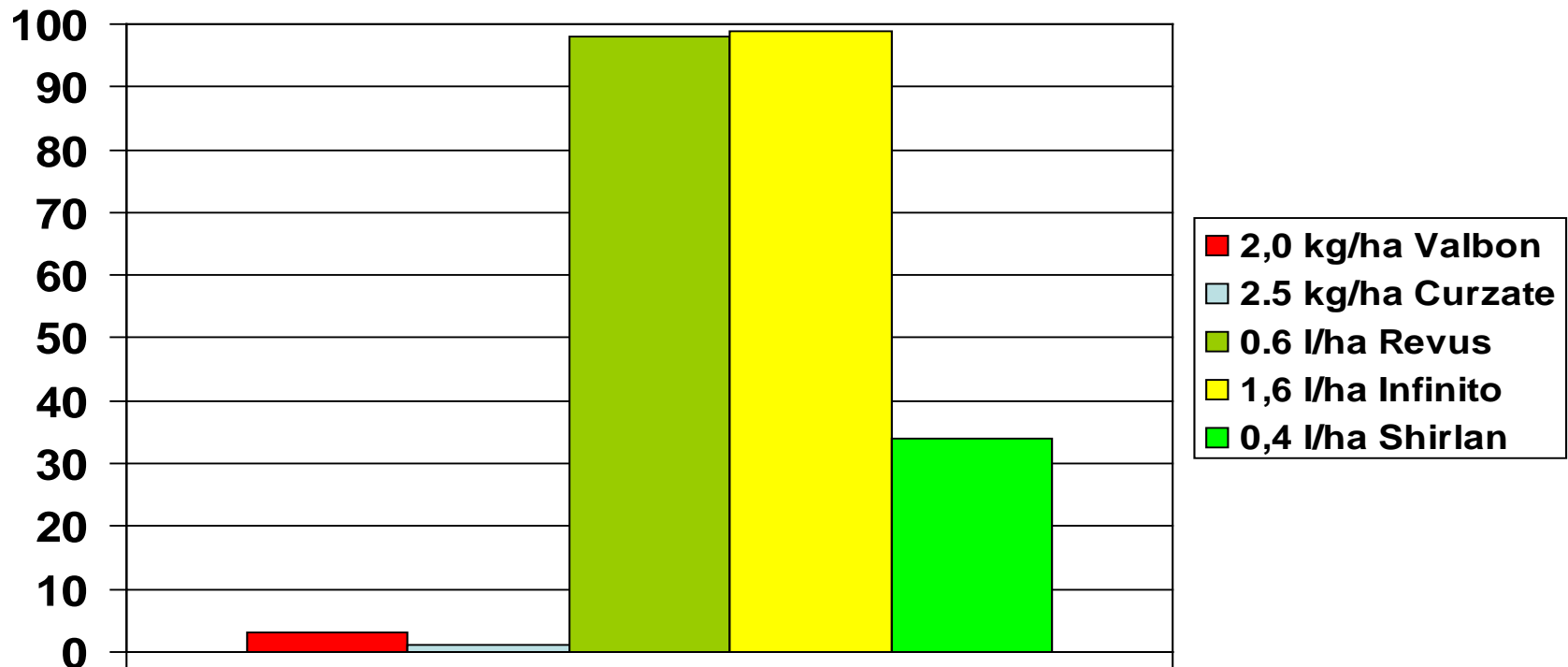
Alternaria control

- **Valbon applications deliver 1120 – 1400 g mancozeb/ ha/ application.**
- **Strong contribution to reduce early Alternaria infections.**



Alternaria HLB 2008, assessment Aug. 19.

[% infected leaf surface]



Valbon applications deliver 1120 – 1400 g mancozeb/ ha/ application and provide good Alternaria control



Conclusions on Valbon performance

- **Very strong protection of foliage**
 - Demonstrated by field performance during rapid canopy development
 - Strong anti-sporulant
 - Good kick-back activity
 - Adjuvant can improve curative activity
 - Mancozeb foliar feed and Alternaria control!