

IPM strategy for open field production of strawberries, disease control

EUBerry WP 2, subtask 2.3.2

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For quality of life

Introduction

- Open field production of strawberry
 - Flat field
 - Ridges, white plastic and drip irrigation
- Cold stored bare rooted plants (Elsanta)
- Sandy soil in Vredepeel
- Goal: reduce residue levels on fruits, without decline in yield and fruit quality.



Experimental set up 2012

- Field experiment comparing different cultivation systems
- Treatments
 - UTC
 - Practise
 - Decision Support System

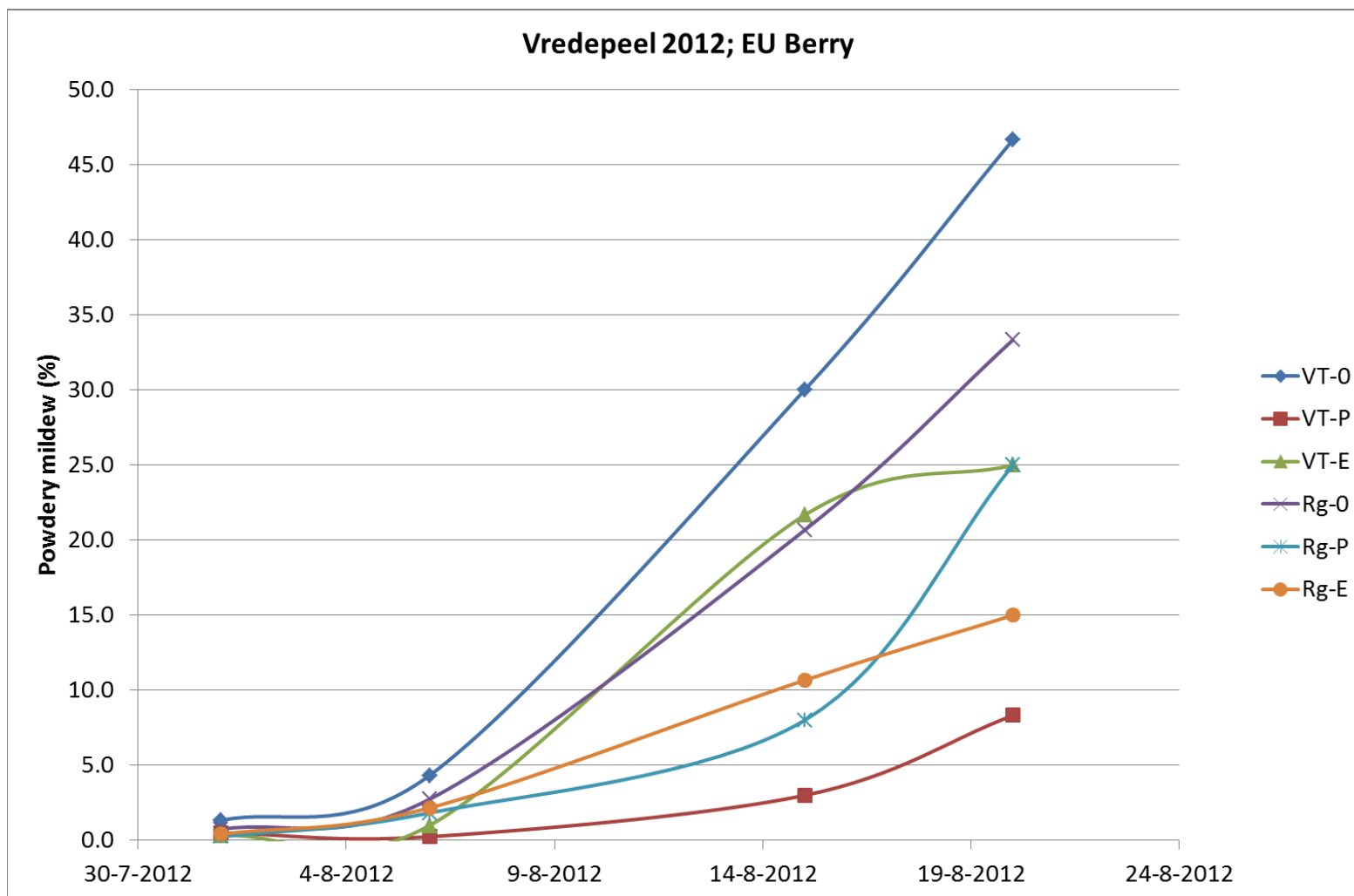


Experimental set up 2013

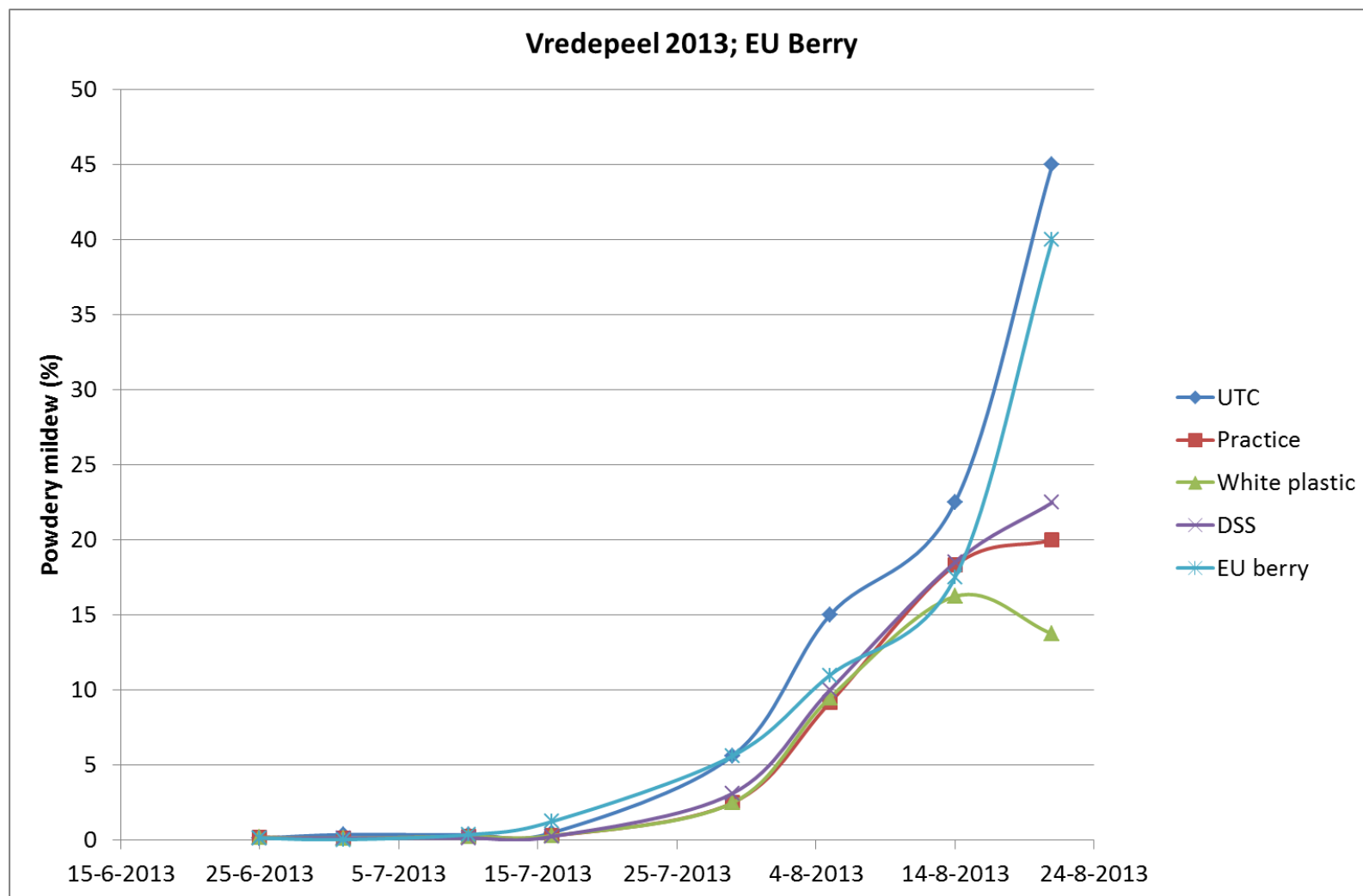
- Untreated Control (UTC)
- Practice
- Spray according to DSS
 - Fungicides
- EU Berry
 - GNO's & fungicides
- DSS 2.0 (only exp. 3)
 - Adapted for powdery mildew



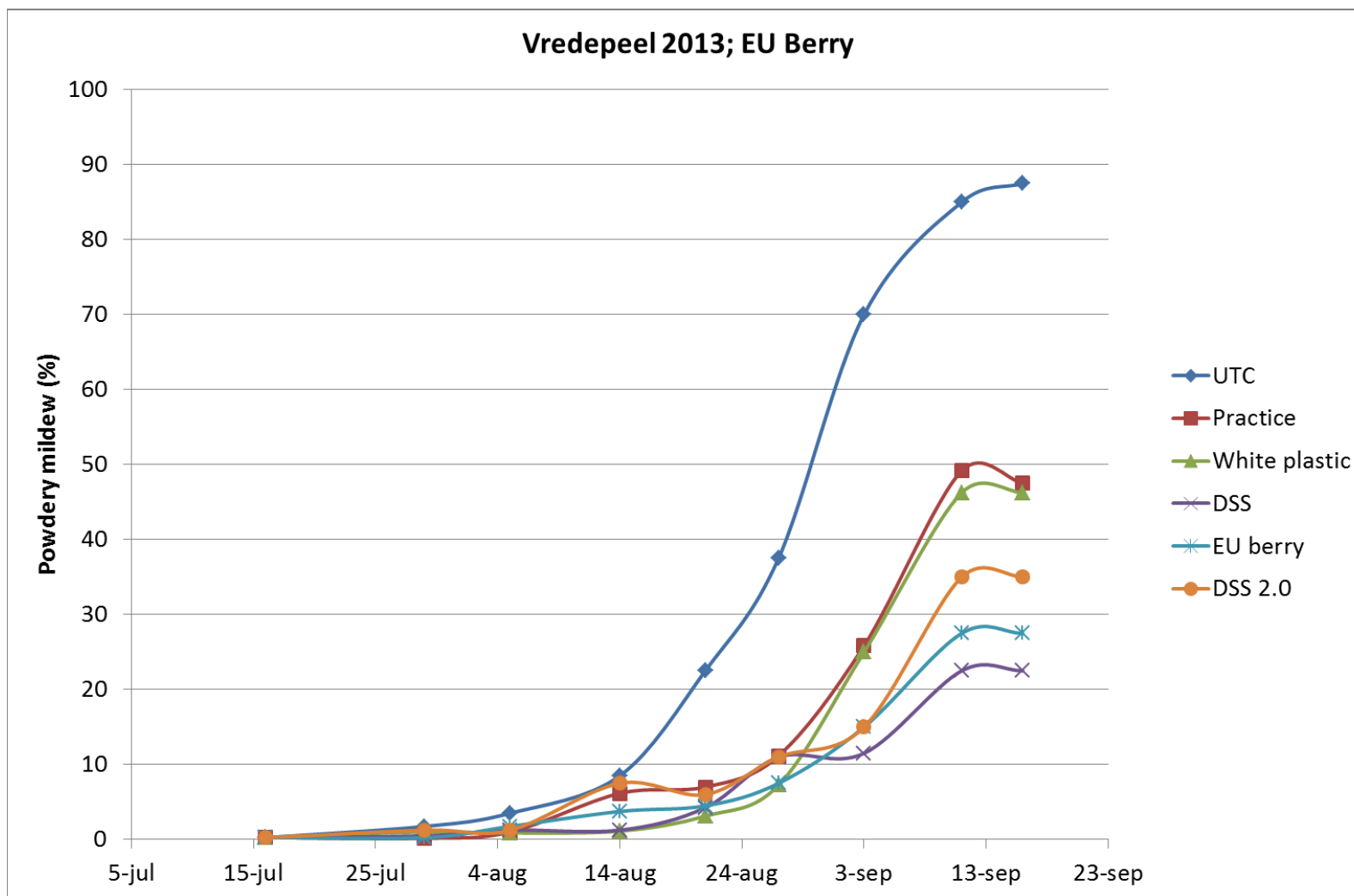
Powdery mildew 2012



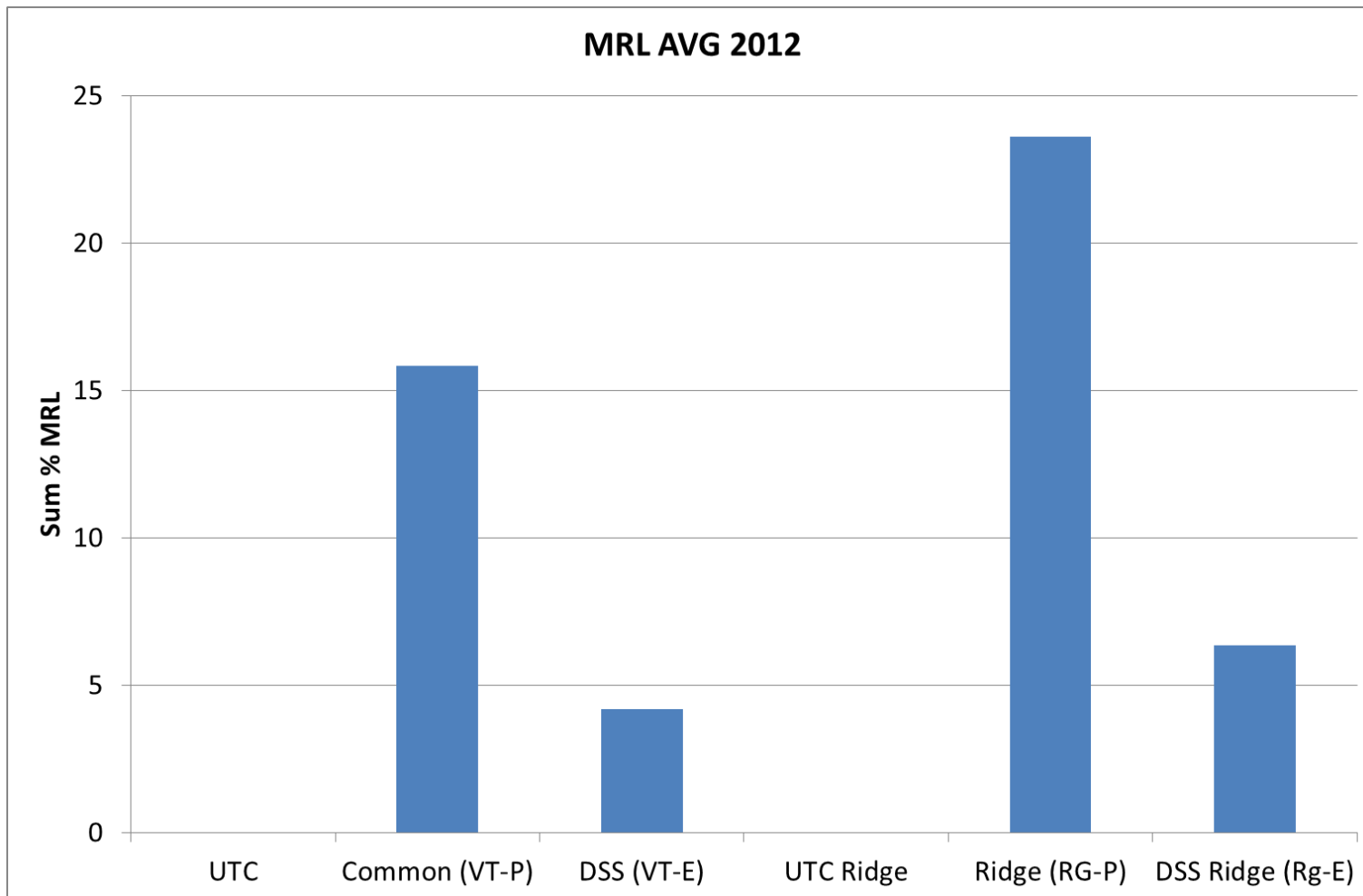
Powdery mildew planting 2



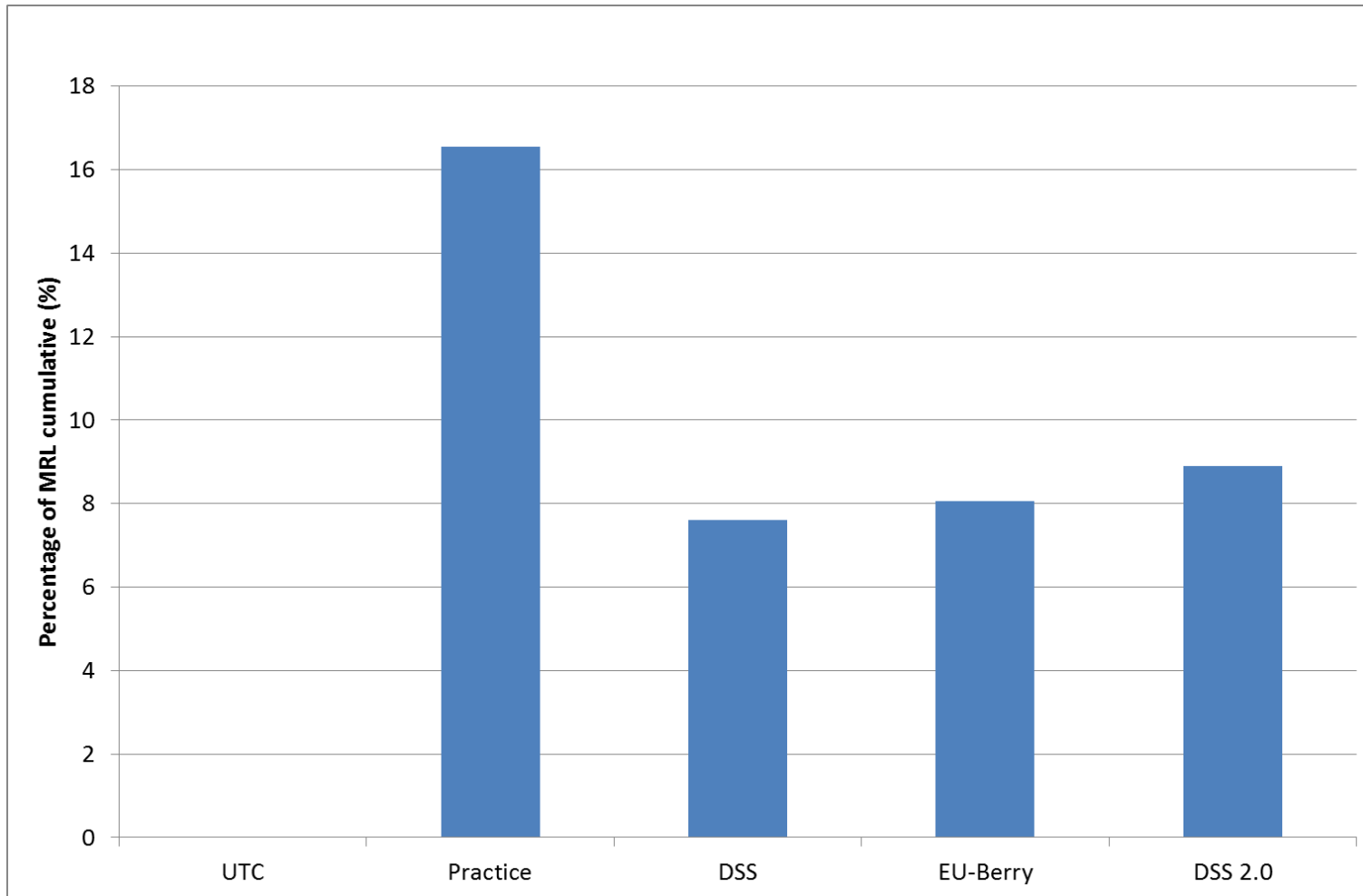
Powdery mildew planting 3



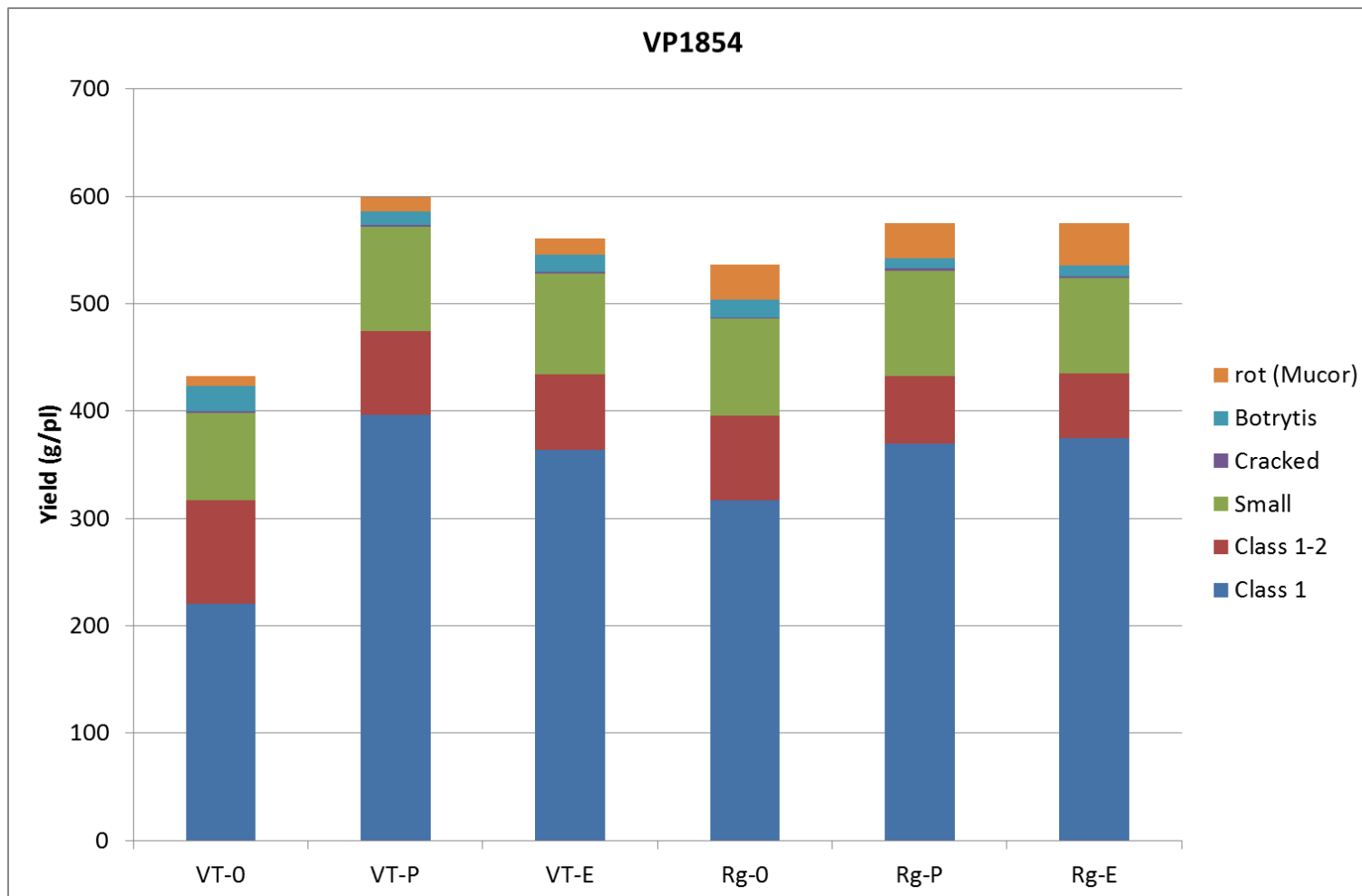
MRL; goal as low as possible 2012



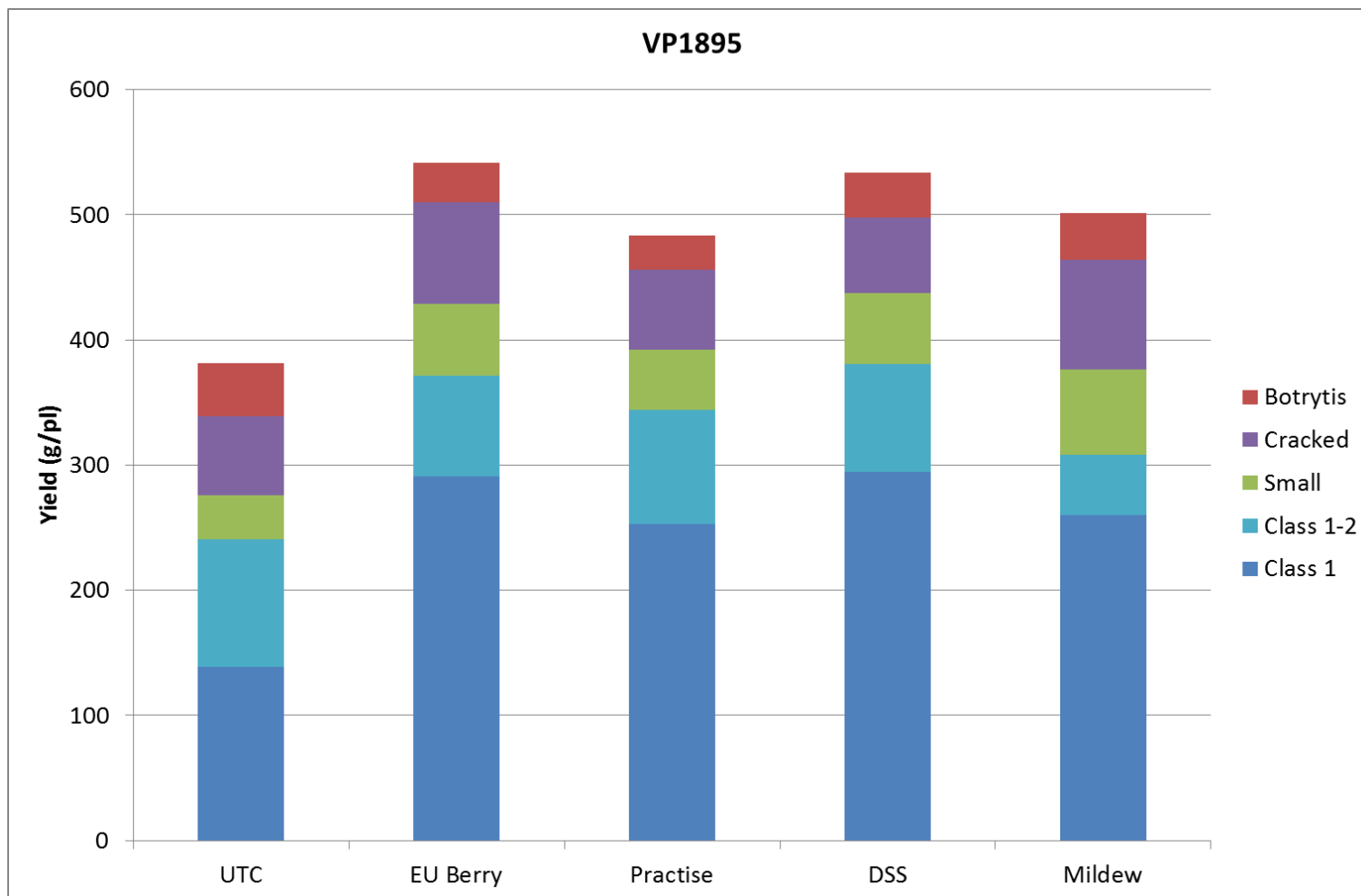
MRL; goal as low as possible 2013



Yield 2012



Yield 2013



Conclusions

- Weather prediction for DSS powdery mildew some what tricky
- DSS 2.0 saves 1 spray but no improvement of disease control
- DSS 40-70% less residues than common practise & saves 2-3 spray applications
- Yield EU Berry & DSS comparable to practise if not better

