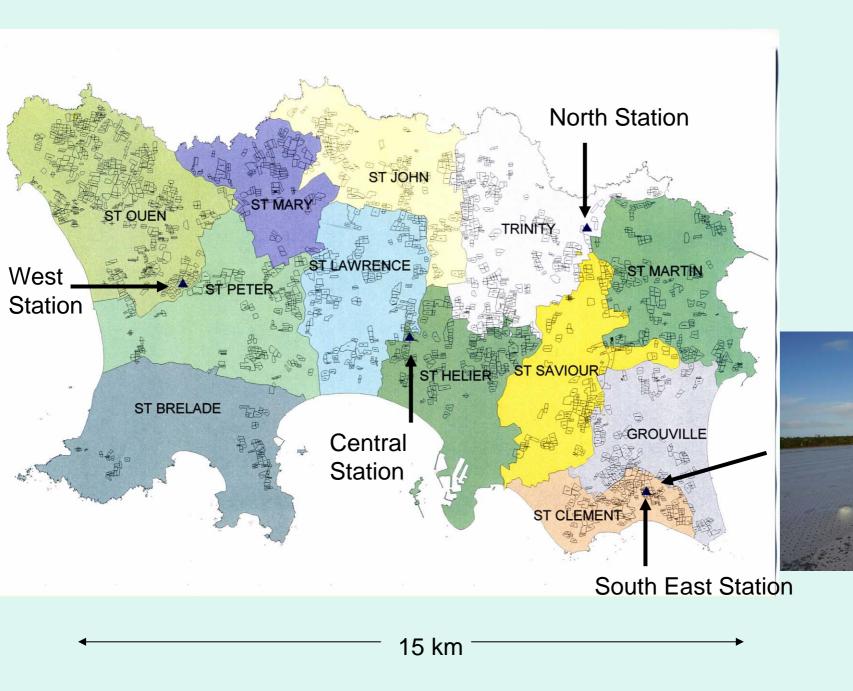
## Assessing Late Blight Risk Under Polythene Covers in Jersey



Howard Hinds Crop Consultancy

# Background

- Jersey Royal (Potato Marketing)
- 1800 ha Jersey Royal potatoes
- Maritime climate high blight risk
- Most crop covered by polythene
- Potatoes after potatoes
- A1 still main strain, but seed/volunteers a problem
- Plant-Plus model since 2000
- 4 weather stations on the island
- Blight mapping



# Why Assess Risk Under Poly?

- Test the assumption that blight risk under polythene is always high.
- Compare risk calculated from under polythene data against open ground weather conditions
- Produce improved DSS for blight protection of early crops by improved timing of polythene removal



## Poly Station South East

### February 2006

## 2006 polythene removal April 10th



#### South East Blight Risk 2006 – a late season hmb spores over field Poly statior sporepreation 22/02/06 01/03 19/04 -> davs **Poly removal Emergence 22/02/06** 24/3 3/4 10/04/06 imb spores over field **Open field** nfection station isk sporereation 01/03 19/04/06 22/02/06 -> davs

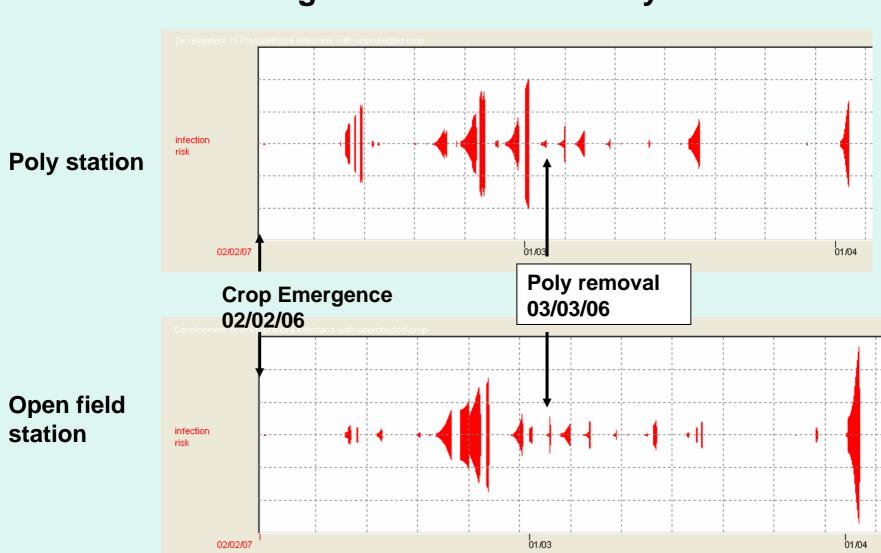


## Poly Station South East

# February 2007







#### South East Blight Risk 2007 - an early season

## Temperature & Humidity Comparison

Year	System	T-Av	T-Max	T-Min	RH-Av
2006	Poly	7.8	26.6	-0.5	94
	Open	5.9	12.2	0.3	81
2007	Poly	8.3	13	2.5	88
	Open	8.6	11.9	2.8	86

## Question

#### Who are the fittest people in Jersey?

## Answer

Blight spray operators

















## Summary

- Blight risk under polythene is not always high. Low risk above the crop relates to low below polythene (sometimes it is lower under poly!)
- Lower minimum temperatures recorded under polythene.
- In 2006 & 2007 differences between open and poly stations blight risk were not as great as expected
- Both systems can be used as an indicator of infection risk under polythene – A DSS tool for polythene removal or spraying over fleece
- Further assessments required with other varieties and fleece

## Thanks for your attention

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