

#### **Printed material**



Note that printed material contains data only up to a full label dose rate. Curves therefore appear slightly different to platform presentation slides but show the same results.



#### The Sites 2013



1	ADAS (Rosemaund)	Septoria tritici (5 spray timings)
2	NIABTAG (Andover)	Septoria tritici (double trial)
3	SRUC (Fife)	Septoria tritici (double trial)
4	ADAS (Terrington)	Yellow rust
5	NIABTAG (Cambridge)	Brown rust
6	SRUC (Fife)	Mildew
7	Teagasc (Carlow)	Septoria tritici

### Treatment list 2013 – Septoria tritici sites



Product	Hereford	Fife	Andover	Ireland
Bravo	Timings only	0.5 only	0.5 only	0.5 only
Ignite / Opus Max	✓	1	<b>✓</b>	✓
Proline	✓	1	<b>✓</b>	✓
Phoenix		1	<b>V</b>	✓
Imtrex	✓	1	<b>✓</b>	<b>√</b>
Vertisan	1	1	<b>V</b>	✓
Aviator	✓ 235	✓ 235	√235	<b>√</b> 225
Adexar	<b>✓</b>	1	<b>✓</b>	✓
Vertisan + Ignite	Rates only	✓	✓	

### Penthiopyrad + Ignite



**HGCA 08 - 2012** 

Full rate tested =

1.25l/ha penthiopyrad (Vertisan) + 1.25l/ha Ignite

**HGCA 10 - 2013** 

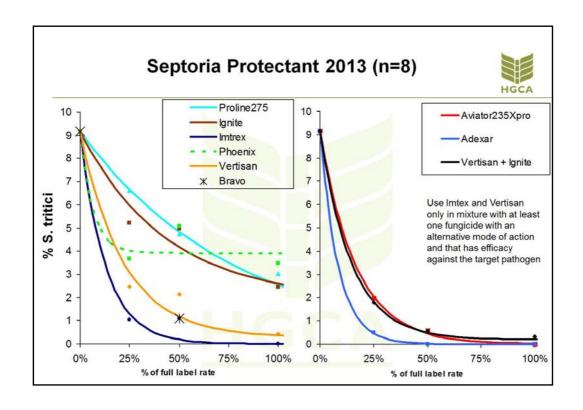
Full rate tested =

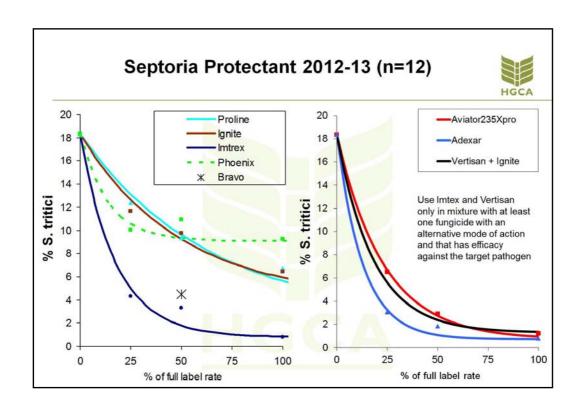
1.5 l/ha penthiopyrad (Vertisan) + 1.5 l/ha Ignite

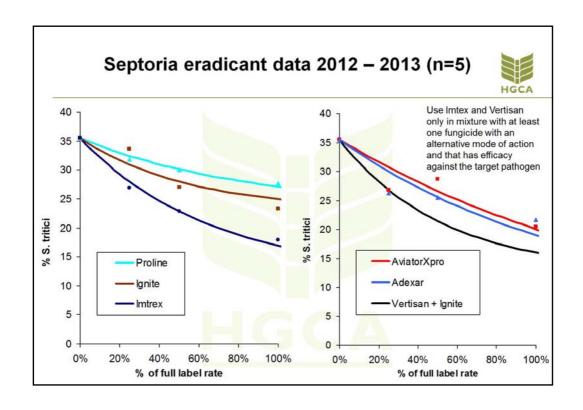
#### Disease data from 2013

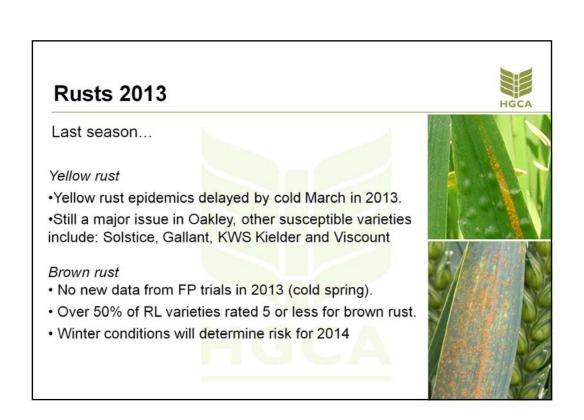


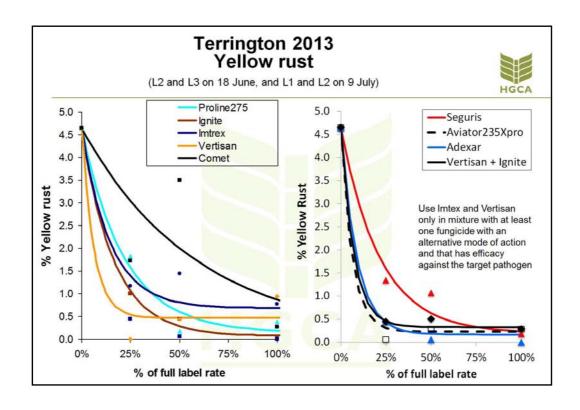
	Target timing	S. tritici Eradicant	S. tritici Protectant	Yellow Rust	Brown Rust	Powdery Mildew
Hereford	GS 37		<b>/</b>	1		
Andover T1	GS32		1			
Andover T2	GS39		<b>V</b>			
Fife T1	GS32	1	<b>✓</b>	1		
Fife T2	GS39		<b>V</b>			
Ireland	GS32		<b>*</b>			
Kings Lynn	GS 39		1	1		
Fife (mildew)	GS 32		<b>✓</b>			
Cambridge	GS39					

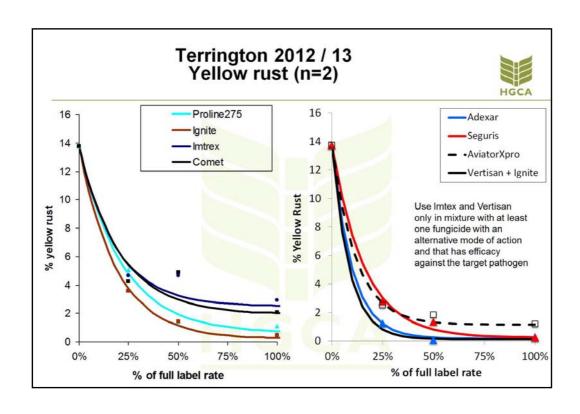


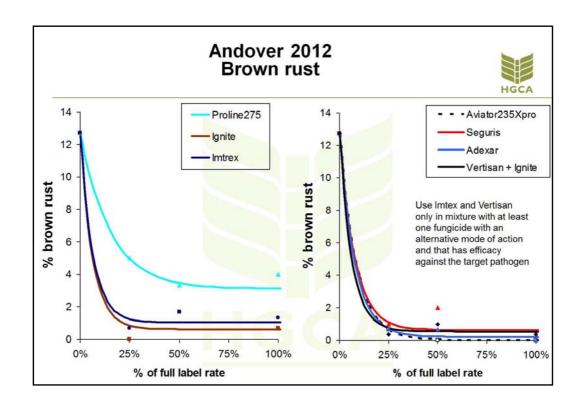


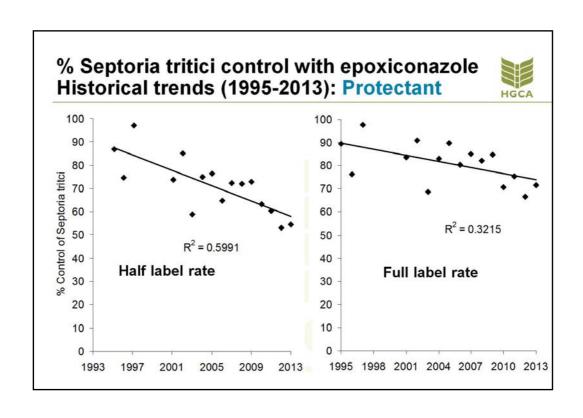


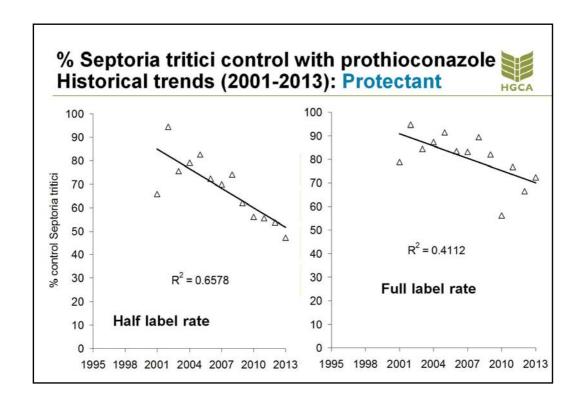


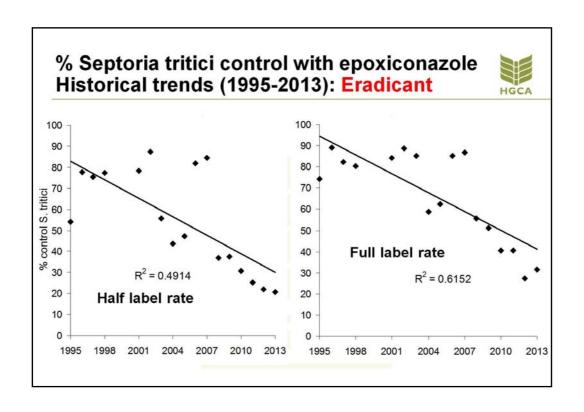


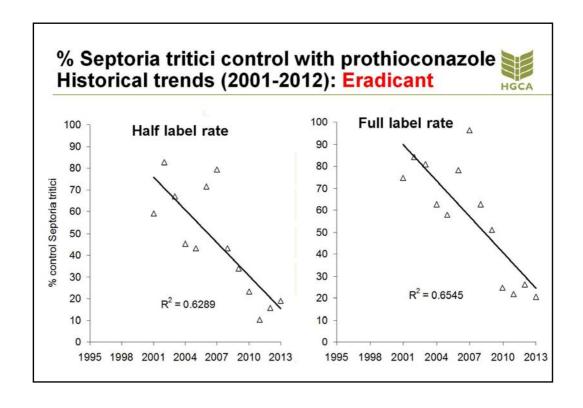


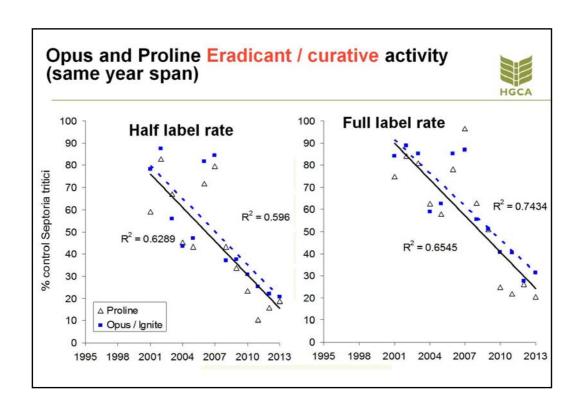












#### **Key Messages**



#### Septoria tritici

In protectant situations, half rates of the best azoles provided less than 50% control, all SDHI + azole mixes gave 91-99% control.

- Solo SDHI's very active but azoles and multisite partners are important to broaden activity and reduce resistance risk.
- Phoenix adds some useful protectant activity.
- CTL very effective in a protectant situation.
- Yields responses in 2013 trials were low (<0.5/ha)</li>

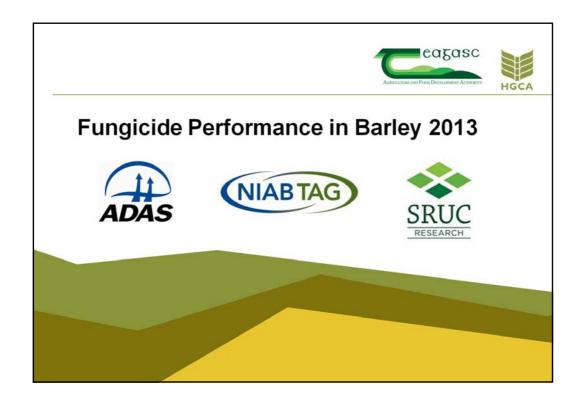
#### Yellow rust

SDHI's and strobilurins useful but less active than azoles.

#### Stewardship of SDHI fungicides



- Maximum of 2 SDHI fungicide-containing sprays. (statutory requirement)
- Always use SDHI fungicides in mixture with at least one fungicide from an alternative mode of action group which has efficacy against the target pathogen(s).
- Tank mixing 2 SDHI fungicides is not an antiresistance strategy.

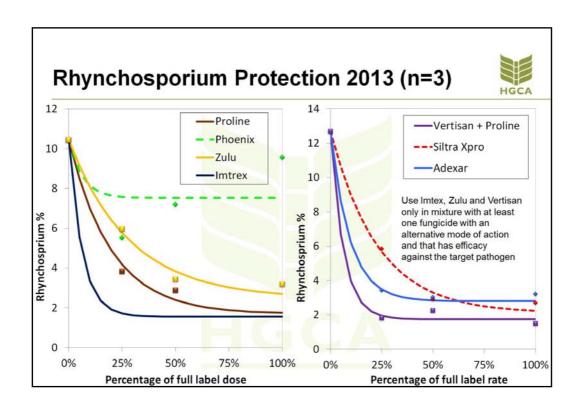


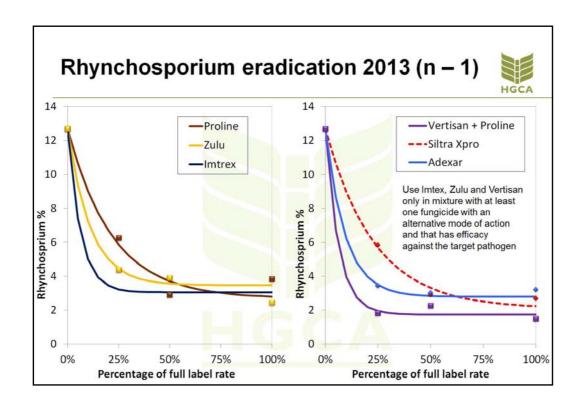
### Barley FP trials 2013

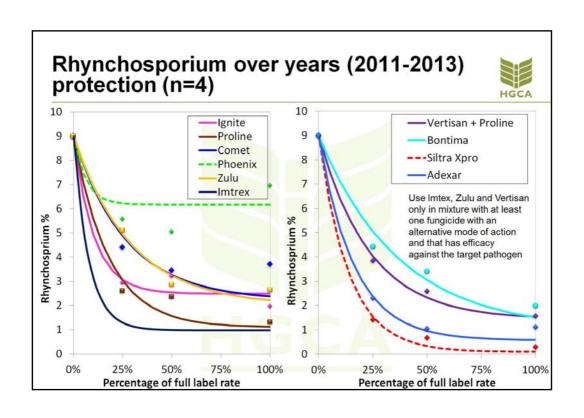


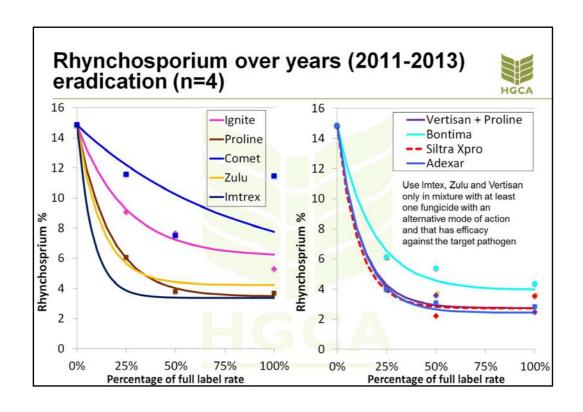
Target disease	Number of trials	Organisation
Powdery mildew	1	SRUC
Rhynchosporium	2	SRUC, ADAS, TEAGASC
Net blotch	2	ADAS, NIAB TAG
Brown rust	1	NIAB TAG
Ramularia	1	SRUC

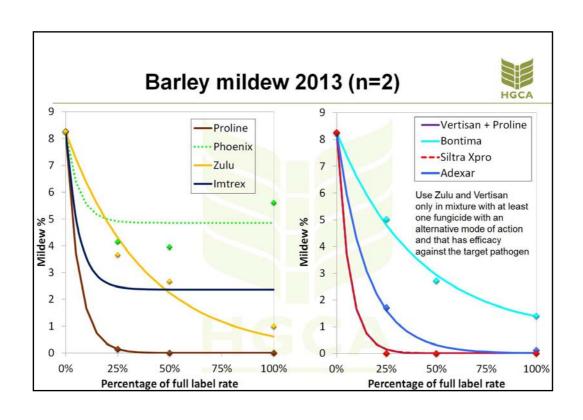
Fife Rhynchosporium Cardigan Rhynchosproium Ireland Rhynchosporium	
19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	m
Ireland Rhynchosporiur	m
	m
Malton N. Yorks Net blotch	
Fife Mildew	

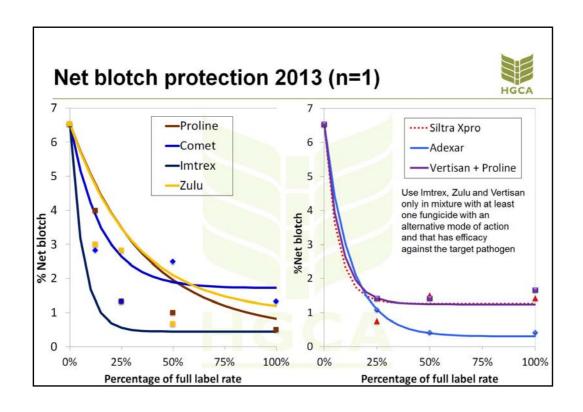


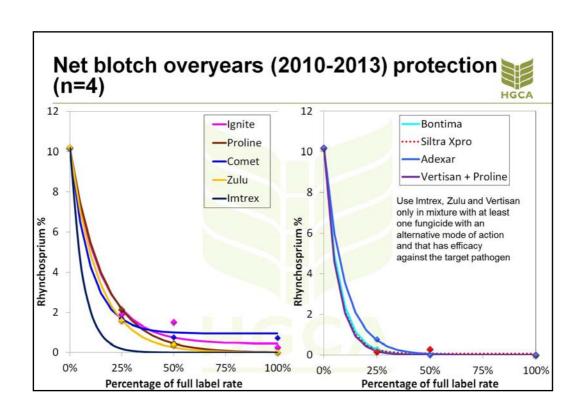


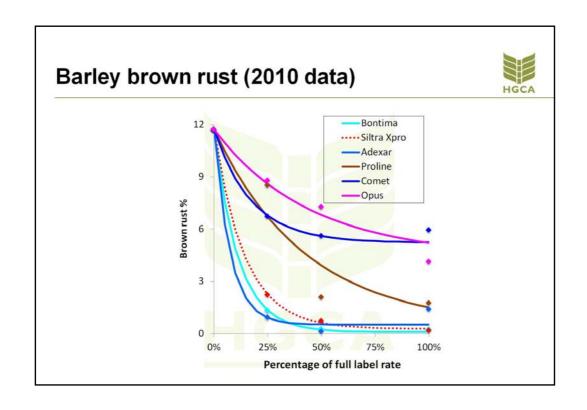


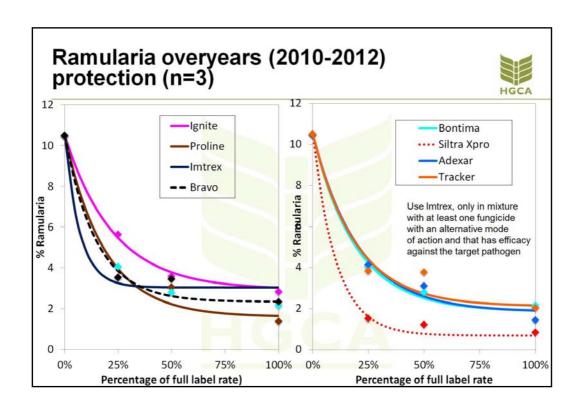












#### **Conclusions**



- Siltra Xpro and Adexar showed good broad spectrum activity in 2013, consistent with previous years.
- Proline still a highly effective azole on barley diseases
- Comet (strobilurin) remains effective against net blotch
- Phoenix has some activity on Rhynchosporium
- SDHIs mixes all performing well and quite closely matched





### Fungicide performance in oilseed rape 2013

presented at HGCA Agronomy Workshops February / March 2014





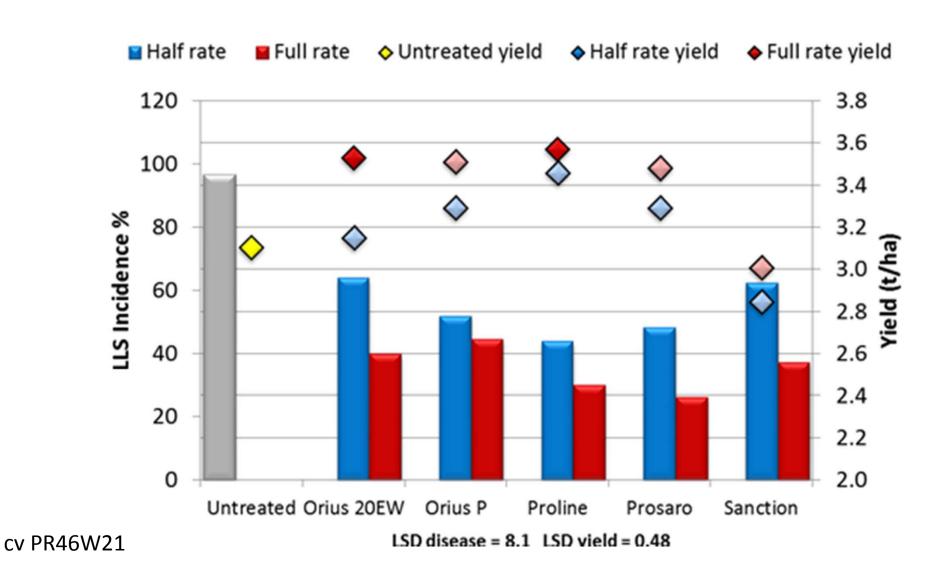
# **Light leaf spot**





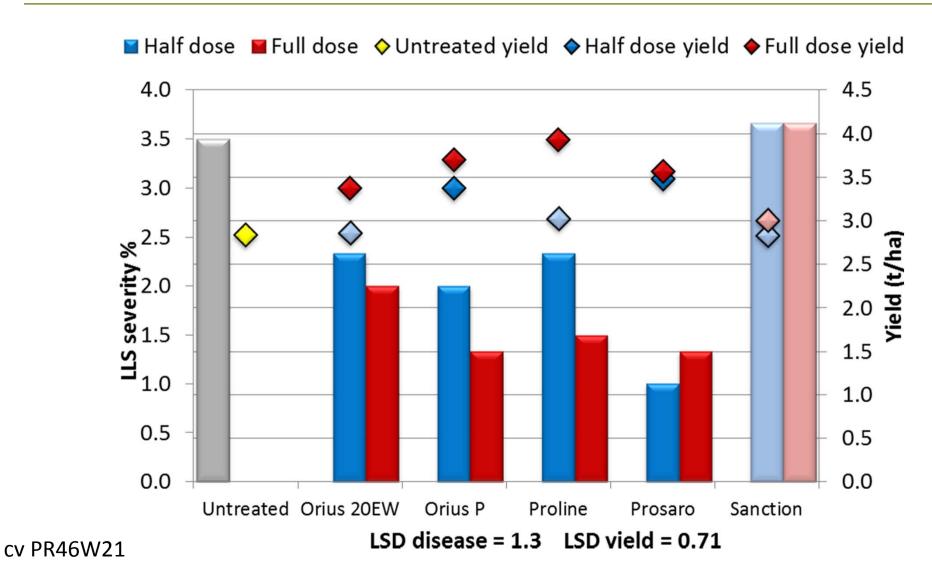
### Light leaf spot incidence, N Yorks. 2013





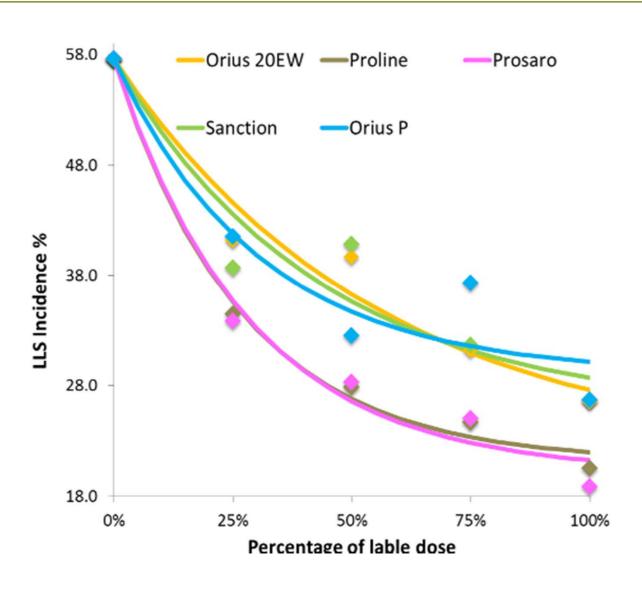
### Light leaf spot incidence, Edinburgh 2013





### Dose response and light leaf spot control





### **Sclerotinia**

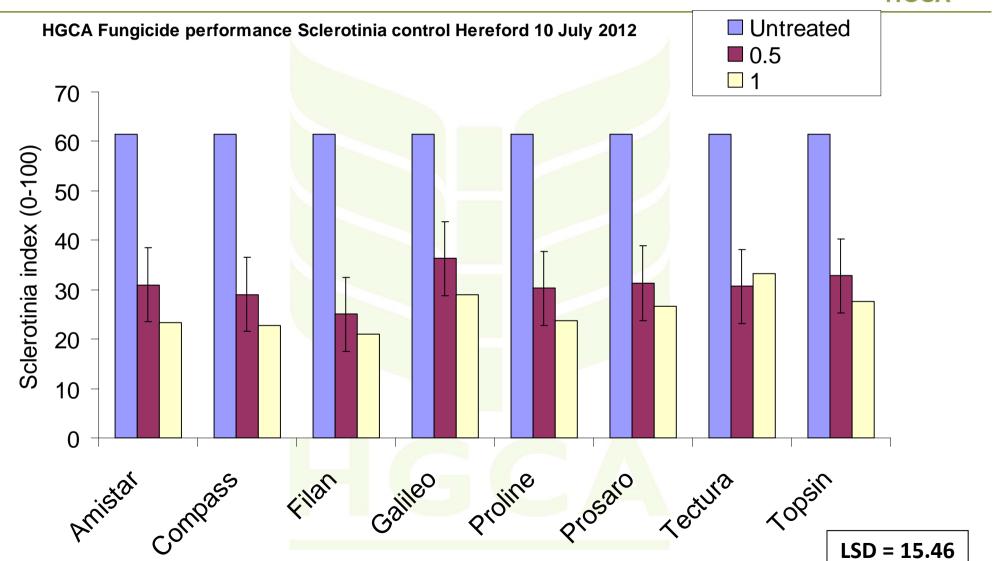
### Treatment at flowering protects against sclerotinia Timing is critical – no curative activity





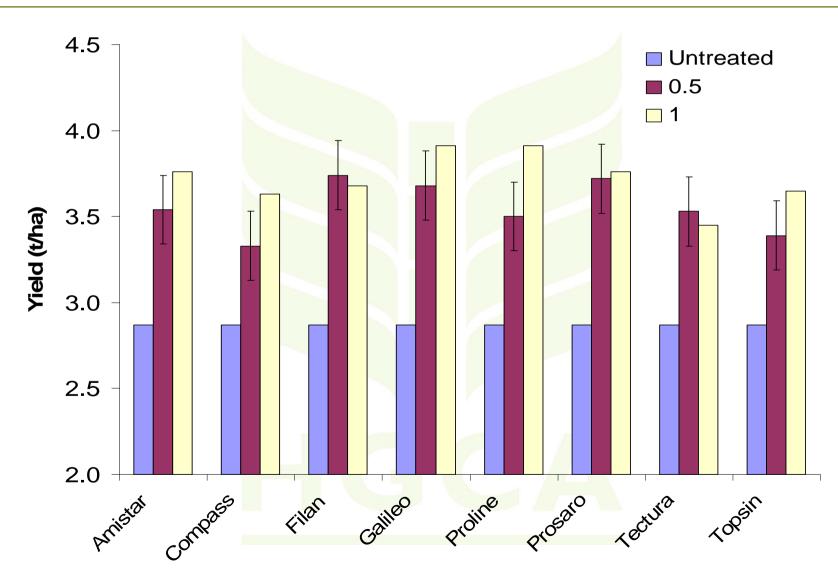
### Sclerotinia control Hereford 2012





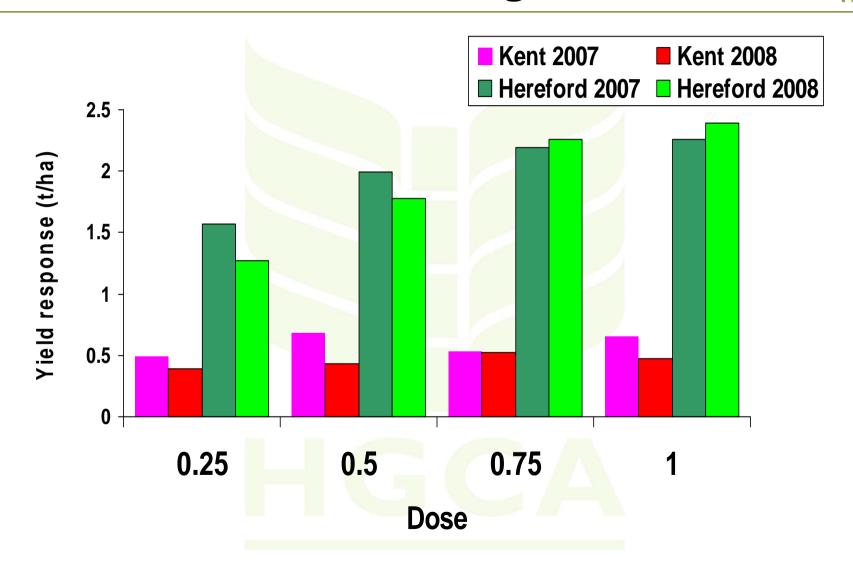
# Large yield responses to sclerotinia control: Hereford 2012







### Sclerotinia control and fungicide dose



### Sclerotinia control – summary



#### **Evaluate risk:**

- previous monitoring
- history of cropping
- weather /crop microclimate

### Where risk is high consider using:

- up to 75% doses of active products
- more than one application

Spray timing is critical – protectant activity 3 weeks



## Thank you

