



**CERTIS**

**LATITUDE®**  
The only take-all seed treatment

### Secure your crop with Latitude®

- Protects yield, quality and profits
- Enables flexibility of drilling date
- Reduces take-all in wheat and barley
- Improves nutrient and water uptake

[www.certiseurope.co.uk](http://www.certiseurope.co.uk)



## DON'T LET TAKE-ALL STEAL YOUR YIELD

### Take-all monitoring trials

Over 13 years, take-all levels found from GS39 onwards, have been at least moderate

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Av Take-all index GS 31	10	10	10	6	12	7	7	17	10	7	6	8	11
Av Take-all index GS 39	20	11	17	19	26	15	11	30	15	11	7	21	22
Av Take-all index GS 75	37	17	46	61	54	27	25	69	33	21	25	40	28

#### Take-all index

Slight
  Moderate
  High
  Severe

Representative second wheat sites across the UK and Ireland monitored by NIAB.

Take-all index is a measure of both severity and frequency of infection where 0 is no infection and 100 is all roots of all plants severely infected.

### Latitude delivers on yield and profits WW

Seed rate		Latitude cost (£/ha)	Yield needed to cover cost (t/ha)	GM from Latitude	
No./m <sup>2</sup>	kg/ha			Moderate Take-all risk (£/ha)	High Take-all risk (£/ha)
150	75	15.23	0.10	72.78	103.18
200	100	20.30	0.13	67.70	98.10
250	125	25.38	0.16	62.63	93.03
300	150	30.45	0.19	57.55	87.95
350	175	35.53	0.22	52.48	82.88
400	200	40.60	0.25	47.40	77.80

Latitude cost benefit depends on seed rate

Margins will be significantly higher for milling wheat and in high or severe take-all situations.

Source: 120 Monsanto and independent trials over 10 years

Average Latitude response = 0.55 t/ha (incl. basic seed treatment av yield = 9.03t/ha)

Feed wheat = £160/t

Latitude price = £203/t

### Latitude delivers on yield and profits WB

Seed rate		Latitude cost (£/ha)	Yield needed to cover cost (t/ha)	GM from Latitude	
No./m <sup>2</sup>	Kg/ha			Moderate Take-all risk (£/ha)	High Take-all risk (£/ha)
200	100	20.30	0.15	32.90	60
(Hybrids)					
325	150	30.45	0.23	22.75	49
(Conventional varieties)					

Assume Feed barley = £133/t, TGW 46g, Latitude £203/t

Malting barley premium would increase these gross margins

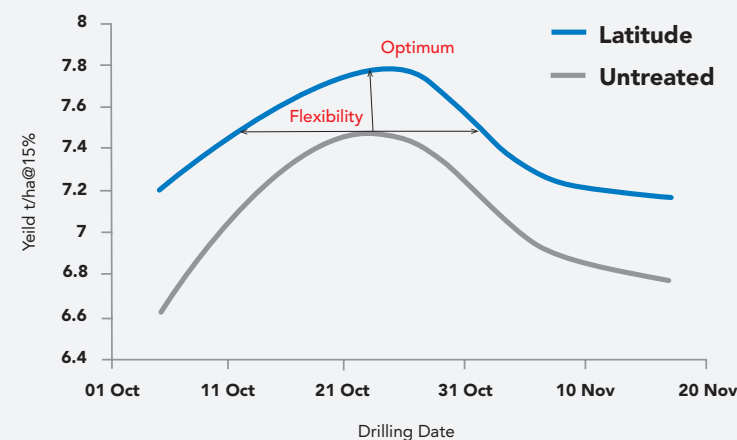
Average response = 0.4t/ha from 5 years UK trials, highest response 0.74t/ha

### Choose a high yielding variety in 2nd wheat situations for Autumn 2019

Varieties lying above the trendline are better suited to the second wheat rotational position than those below the line

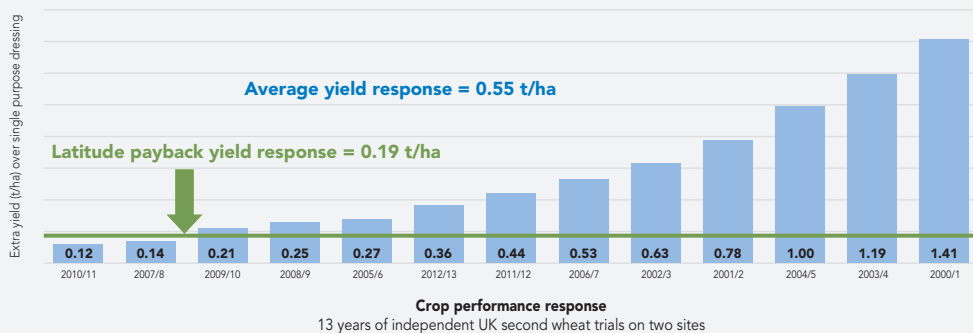


### Latitude allows drilling flexibility



Using Latitude treated seed gives the flexibility to extend the drilling window for wheats at risk of take-all and to start drilling earlier into better seedbed conditions.

## Latitude average yield response is 0.55 t/ha



## Secure your crop with Latitude®

### Guidelines for use

Use Latitude in situations where take-all is likely

- Second and third wheat
- Winter barley following a cereal
- First wheat after non-cropped land or a spring cereal

Integrate Latitude with cultural control methods to reduce take-all disease

- Don't sow too early (October is optimum)
- Use a suitable wheat variety
- Use appropriate seed rates
- Correct pH and nutrient (P,K,Mn,Cu) deficiency
- Correct soil problems and consolidate seedbeds
- Apply spring nitrogen early (early February is optimum)

**Be aware that even with Latitude take-all symptoms may be seen in high disease situations.**

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