

ASTRID

The low biomass oilseed rape

Here's something you can rely on...



The conventional low biomass winter oilseed rape variety Es Astrid has become the variety that everybody can rely upon on farm. Farmers rely on its performance and consistency across sites and years. Agronomists rely on its ease of management and its disease resistance.



- ♥ **High yielding Oilseed rape**, year after year
- ♥ **Reliable performance**, wherever it is grown
- ♥ Low biomass for **easier** and low cost management
- ♥ Very **high Phoma resistance**
- ♥ Reliable, stable **multigene disease resistance**

HGCA Recommended List East/West region 2011/12

	Es Astrid	Castille	NK Bravour	Flash (RH)	Excalibur (RH)
Treated Seed Yield %	102	99	98	102	101
Gross Output %	100	97	99	102	102
Oil Content %	43.3	43.6	45.6	45.0	44.9
Height	142cm	142cm	153cm	166cm	156cm
Resistance to lodging*	8	8	8	7	7
Stem stiffness*	8	7	8	7	7
Shortness of stem*	8	8	7	6	7
Earliness of flowering*	5	8	7	6	8
Earliness of maturity*	6	6	5	4	6
Resistance to Light Leaf Spot*	5	5	5	5	6
Resistance to Stem Canker*	7	6	5	4	5

*Scale of 1-9 where 9 is the top rating



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Rely on **easier** and low cost management

Many growers have benefitted from Low Biomass varieties which stand well and allow easier and quicker harvesting.



Benefit of Low Biomass

- Air flow through canopy reduces disease
- Better standing and lodging resistance
- Faster dry down at harvest
- Less shedding or sprouting
- Less volume of plant through combine increasing hectares harvested by up to 25%
- Less stubble to incorporate
- Less trash to feed slugs

Faster work rate at harvest reducing stress on man and machinery and saving costs, particularly on diesel.



Es Astrid

Castille

Early drilling, fertile soils, organic soils

The benefit of Low Biomass varieties like Astrid are maximised for early drilled crops in August, on fertile clay soils and on organic peats where growth of hybrids and non Low Biomass varieties can be massive.

Keeping crops standing for ease of harvest, evenness of maturity and reduction in pod diseases saves time, money and stress.

Every harvest the reason to drill Es Astrid is easy to see from the combine seat. It yields well, performs across the farm and is quicker and easier to combine.

Claas Lexion 580 uses 50l of diesel per hour.



Reliable performance, wherever it is grown



Strong roots on Es Astrid

The fibrous rooting system of Es Astrid means that it is able to extract nutrients and water efficiently from the soil and so perform whatever the conditions in the field.

Its strong rooting ability also means it can survive clubroot attack better than some other varieties.

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Rely on high Phoma resistance



Es Astrid remains one of the highest rated HGCA Recommended Winter oilseed rape variety for Stem Canker. This high multi-gene resistance reduces pressure on early autumn Phoma sprays.

According to Dr Peter Gladders of ADAS an HGCA rating 7 or above significantly reduces the need for a fungicide. Each HGCA disease rating is worth £20/ha to growers. Improved disease ratings improves flexibility for Phoma sprays.

	HGCA Phoma rating (1-9)	
Astrid	7	↑ £20 extra
DK Cabernet	6	
Fashion	6	↑ £20 extra
Sesame	5	
Dimension (RH)	5	
Excalibur (RH)	5	
DK Secure (SD)	5	↑ £20 extra
Flash	4	
PR46W21(RH)	4	

Reliable multigene disease resistance



Phoma stem canker remains the most significant and costly disease of winter oilseed rape, causing premature plant death and yield losses of up to 50%.

Growers spray at 10% autumn Phoma leaf spotting

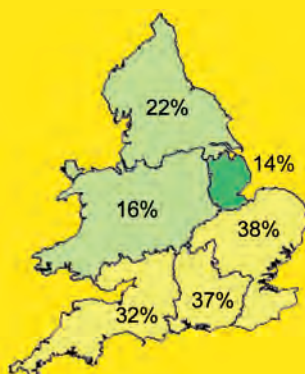
Yield loss maybe up to 50%, but 0.5-1t/ha is common when control has been lacking.



HGCA rating Es Astrid = 7.0 + multigene benefit



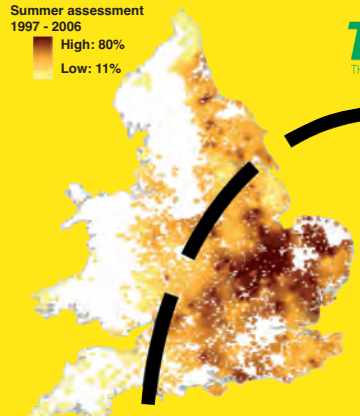
PHOMA RISK 2011



Source: HGCA Rothamstead Stem Canker Risk 2011.

Predicted % crops with canker

Incidence of Phoma Summer assessment 1997 - 2006
High: 80%
Low: 11%



Historic incidence of phoma
60% of OSR is grown in the high Phoma risk area of the UK.



TAG advises growers to spray fungicides when 1 plant in 10 shows Phoma leaf spotting. With Astrid's much better resistance TAG advises growers that the threshold is twice as high and growers don't need to spray until 2 plants in 10 have leaf spots.

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Reliable **high yields** year after year

% yield of controls	Mean Yield RL 10/11	2010	2009	2008	2007	2006	2005
Es Astrid	102	101	102	105	107	100	106
Castille	99	96	99	101	107	104	104
Excalibur (RH)	101	105	102	107	105	103	107
Expert	101	100	103	105	104	102	106
Lioness	97	96	98	105	99	100	102
DK 45D03(SD RH)	97	101	98	99	99	-	-

Source: Annual Means from HGCA Harvest Results

On farm and in trials Es Astrid continues to fill the combine tank at harvest. Many growers exceed 5t/ha with Astrid.

Profit from rape depends on getting high yields

Astrid is early to harvest, allowing good entry for following crops.

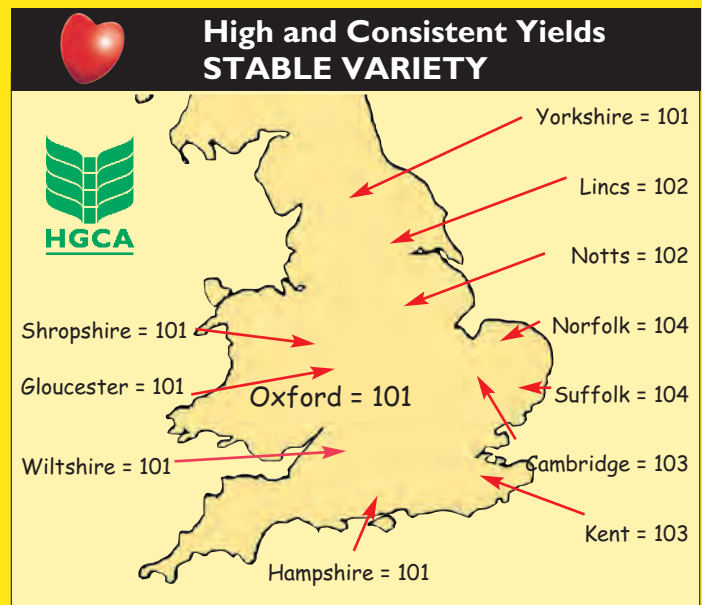


Reliable **performance**, wherever it is grown

Es Astrid consistently yields every year over a wide range of sites and soil types.

- Wherever you are
- Whatever soil type
- However you establish it

Cold spring, dry spring, whatever the season Astrid delivers.



Source: HGCA RL Plus 2005-2009



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