

ASTRID

The low biomass oilseed rape

In a world of **uncertainty**, be **certain** with **Astrid...**



Be **certain** of **high yields** year after year

	Mean Yield RL 10/11	2009	2008	2007	2006	2005
Es Astrid	102.9	102	105	107	100	106
Castille	103.1	99	101	107	104	104
Excalibur (RH)	102.2	102	107	105	103	107
Expert	102.2	103	105	104	102	106
Lioness	98.8	98	105	99	100	102
DK 45D03(SD RH)	98.6	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. Profit from rape depends on getting high yields and many growers produce 5t/ha of Astrid.

Its early to harvest too. HGCA rating 6 - the highest.

Be **certain** of **reliable performance**, wherever it is grown

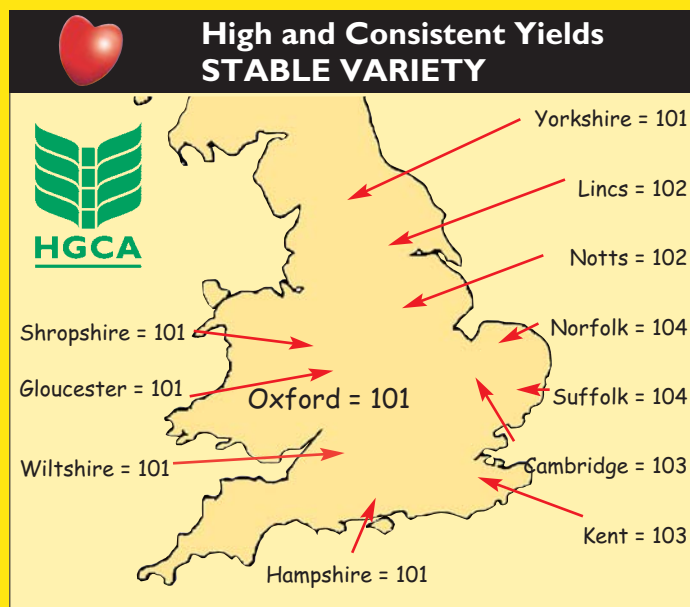
Es Astrid consistently yields every year over a wide range of sites and soil types.

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

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



THEN ASTRID PERFORMS.



Source: HGCA RL Plus 2005-2009



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The conventional low biomass variety Es Astrid is one of the most popular and widely grown varieties of winter oilseed rape and it continues to capture the attention of many leading farmers and industry experts.



Be **certain** of **high yields**, year after year
reliable performance, wherever it is grown
easier and low cost management
the **highest phoma resistance**
reliable **multigene disease resistance**

Be **certain** of **top class performance** and a top class agronomy package

Overall Astrid offers growers the certainty of yield, performance and disease resistance. This top class agronomy package is second to none and growers can be assured of a crop that is easy to manage and performs every year.

	Es Astrid	Castille	NK Bravour	Excalibur
Treated Seed Yield	103	103	100	102
Gross Output	101	102	102	102
Oil Content	42.7	43.4	45.3	44.2
Height	142cm	143cm	153cm	156cm
Resistance to lodging*	8	8	8	7
Stem stiffness*	8	7	8	7
Shortness of stem*	8	8	7	7
Earliness of flowering*	5	8	7	8
Earliness of maturity*	6	6	5	6
Resistance to Light Leaf Spot*	5	5	5	6
Resistance to Stem Canker*	7	6	5	5

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



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Be **certain** of **easier** and low cost management



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

Every harvest the reason to drill Es Astrid is made clear from the combine seat. Its easy on man and machine, yields well and performs across the farm.

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%

Faster work rate at harvest reducing stress on man and machinery



Be **certain** of **reliable performance**, wherever it is grown

Fibrous rooting system of Es Astrid means that it is able to survive a clubroot attack better than some other varieties.



Main clubroot control measures continue to be:

- Rotation (4-5 years)
- Liming and calcium supply
- Plough to bury trash
- Weed control of cruciferous alternative hosts
- Drainage
- Boron nutrition

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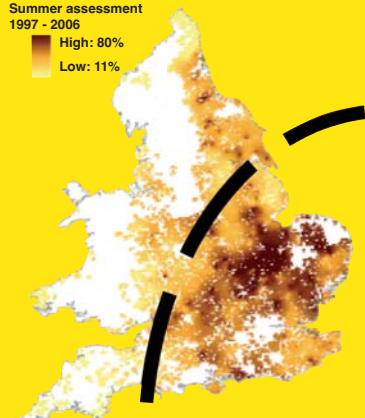
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Be **certain** of the **highest phoma resistance**

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



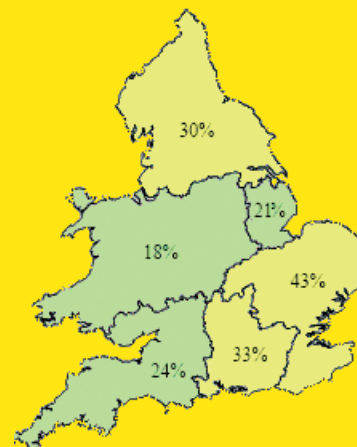
Historic incidence of phoma

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



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.



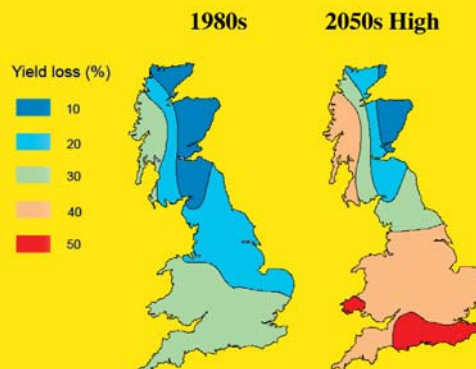
Phoma risk 2010

Be **certain** of reliable **multigene disease resistance**



Phoma stem canker remains the most significant and costly disease of winter oilseed rape.

Climate modelling by Rothamstead predicts that the threat from canker will increase, due to climate change and shorter rotations.



Conventional Varieties	Phoma Resistance Rating
Astrid	7
Vision	6
Expert	6
Castille	6
DK-Cabernet	6
Lioness	5
NKBravour	5
Fashion	5

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

Es Astrid remains the highest rated conventional HGCA Recommended Winter oilseed rape variety for Stem Canker. This multi-gene resistance reduces pressure on autumn phoma sprays.

According to Dr Peter Gladders at an HGCA rating 7 or above the need for a fungicide is very much reduced.

Each HGCA disease rating is worth £20/ha to growers. Improved disease ratings improves flexibility in autumn for phoma sprays.

