

# ALIENOR

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## Ahead on *Verticillium* Wilt resistance

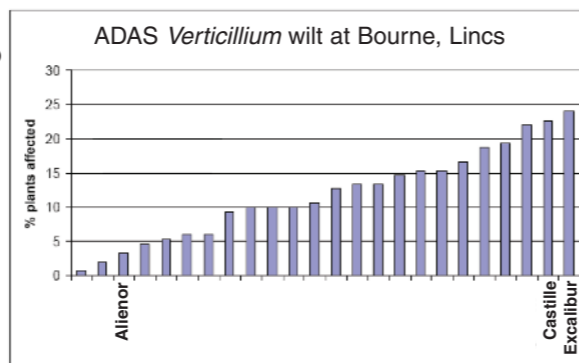
ADAS in conjunction with HGCA have looked at varietal resistance to the increasingly important disease in rape, *Verticillium* wilt.

Alienor has consistently been seen to have a higher level of resistance to the disease than other popular UK oilseed rape varieties.



First identified in 2007 in Kent and Herefordshire this soil borne disease has spread rapidly across the UK and has now been seen in crops as far north as Yorkshire.

The disease favours warm springs and there is no proven chemical control. Grow a more resistant variety such as Alienor to avoid potentially significant yield losses through premature ripening.



HGCA Research and Development, Annual Project Report.

Symptoms of *Verticillium* wilt (photo courtesy of ADAS)

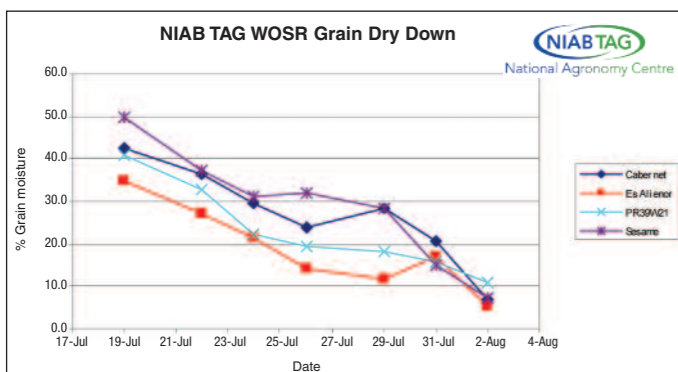
AICC *Verticillium* wilt trials in 2012 and 2013 confirmed the resistance of Alienor giving it the best resistance over 2 badly infected sites.

The yield of Alienor at the Eastern site in 2012 was 5.1t/ha = 111% of trial mean.



## AHEAD on earliness

### NAIB TAG Grain sampling 2013 – Morley, Norfolk



Es Alienor harvested and in the barn before other varieties have started harvesting.

- This allows stale seedbeds to be practised prior to drilling wheat helping control resistant blackgrass and bromes.
- Allows time to prepare good seedbeds.
- Optimising drilling time for following crops.



On 29th July 2013 Es Alienor was at 11% grain moisture way ahead of other varieties with Cabernet and Sesame still being at 28% moisture– way off harvesting maturity. Most HGCA recommended varieties have an Earliness of Maturity score of 4 or 5 potentially creating a clash with wheat harvest.



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**Blast off!... with MAXIMUM vigour oilseed rape varieties**



## AHEAD on earliness

## AHEAD on vigour

## AHEAD on cost-savings and management

## AHEAD on disease resistance

- The Earliest variety to harvest
- Excellent autumn vigour
- Low Biomass
- High combined disease resistance
- Excellent resistance to *Verticillium* wilt
- Multigene Phoma resistance
- Very high Light Leaf Spot resistance
- High oil content
- Early spring vigour ahead of many hybrids



### GROW FOR AN EARLY HARVEST TO SPREAD THE WORKLOAD

Growers wanting an early harvest and time to prepare seedbeds for following crops should grow Alienor.

Ready 10 -14 days before the latest variety in HGCA trials. Why risk a wet harvest?

Large growers wanting to spread the harvest risk should grow Alienor.



### Alienor facts and figures

|                        |        |                              |   |
|------------------------|--------|------------------------------|---|
| Gross output           | 102%   | Shortness of stem*           | 7 |
| Treated yield          | 102%   | Earliness of flowering*      | 8 |
| Oil content            | 44.4%  | Earliness of maturity*       | 7 |
| Height                 | 147cms | Resistance to Light          |   |
| Resistance to lodging* | 8      | Leaf Spot*                   | 6 |
| Stem stiffness*        | 8      | Resistance to Stem Canker* 7 |   |

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



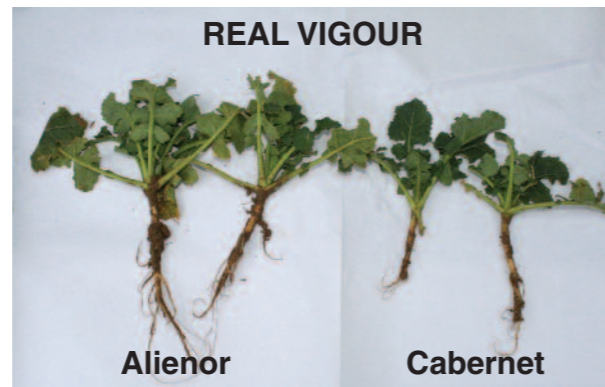
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## AHEAD on vigour

Alienor shows excellent vigour in the autumn and spring often surpassing that of hybrid varieties. It establishes well and can withstand severe winters and pigeon damage.

### Hampshire GAI assessments

|                   | 19 Nov      | 21 March    | 24 April    |
|-------------------|-------------|-------------|-------------|
| <b>Es Alienor</b> | <b>0.68</b> | <b>1.24</b> | <b>2.84</b> |
| Es Alegria        | 0.72        | 1.36        | 3.14        |
| Es Cubic          | 0.63        | 1.14        | 2.64        |
| Cabernet          | 0.48        | 0.75        | 1.76        |
| Sesame            | 0.38        | 0.64        | 1.63        |
| Excalibur (RH)    | 0.67        | 1.19        | 2.76        |



When comparing the green area index of Alienor against other commercially grown varieties you can see that Alienor was at least half a GAI ahead of the other varieties producing more growth than even the best hybrids.

Each unit of GAI equates to 50kg N/ha contained in the crop, so Alienor contains an extra 25kg N.

**Blast off!...**  
with **MAXIMUM vigour oilseed rape varieties**



With an increased risk of pest attack on this years crops due to the loss of neonicotinoid seed treatments consideration must be given to varietal traits that may help to minimise plant losses and aid establishment.

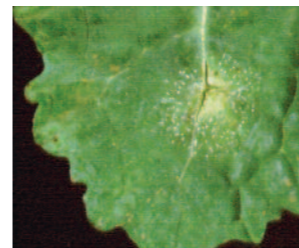
Choose a variety with good vigour to ensure the best possible chance of establishing enough strong plants to survive through the winter.



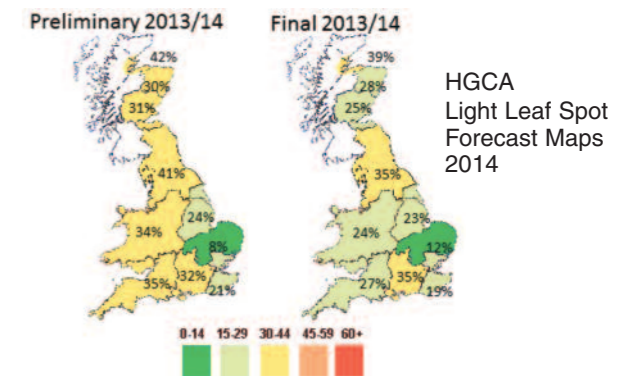
# ALIENOR

## AHEAD on combined disease resistance

### ES ALIENOR HIGHER RESISTANCE TO LIGHT LEAF SPOT

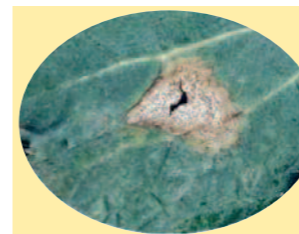


HGCA rating  
**Es Alienor = 6.2**



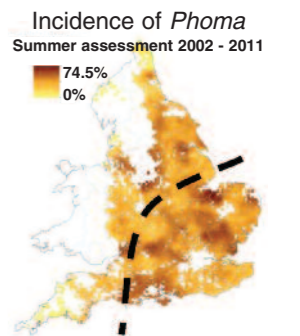
Es Alienor has a high rating for Light Leaf Spot. This shows in its reduced level of field infections making Es Alienor suitable for all parts of the country.

### PHOMA STEM CANKER – THE MAJOR DISEASE IN OSR AREA



Growers spray at 10% autumn phoma leaf spotting.  
Yield loss of 0.5 - 1t/ha is common.

HGCA rating  
**Es Alienor = 7.4**  
+ multigene benefit



Es Alienor has high multigene resistance to all known races of Phoma Stem Canker. In addition Alienor has the advantage of rapid early plant growth which extends the distance the fungus has to grow through the plant to infect the stem base, reducing disease impact.

All areas growing winter oilseed rape suffer from phoma stem canker, so grow a resistant variety. Image from Crop Monitor, Food and Environment Agency. Crown Copyright 2013

## AHEAD on cost-savings and management

### LOW BIOMASS = IMPROVED WORK RATES



Work by Claas has shown that combines can cut 1.25ha/hour in standing crops compared to 0.75ha/hour in lodged crops. Quality is also often reduced in lodged crops due to uneven dry down of seed, sprouting and seed loss through shedding. Alienor has high ratings for Lodging resistance and Stem Stiffness keeping the crop standing.

