



Disease Management

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**STRONG DEKALB DISEASE
RESISTANCE IMPROVES FLEXIBILITY
AND PERFORMANCE**

DEKALB's strong light leaf spot and double phoma resistance gives you greater flexibility in fungicide use and timing application, while protecting your crop from both major yield robbing rapeseed diseases.

Secure your OSR crop with rapeseed disease management solutions from DEKALB.



Foliar and stem-based crop plant diseases invariably limit the performance of winter OSR to some extent and can be devastating where infection pressures are high and fungicide spraying is insufficiently timely.

Phoma stem canker (black-leg) is the most damaging disease across Europe as a whole with light leaf spot becoming increasingly problematic in across much of the UK.

We also know that significant yield losses occur from internal phoma stem damage even in the absence of lodging. Indeed, official Scandinavian trials with full fungicide regimes have shown a 10-15% average yield penalty from poor resistance to the disease.



Problematic in some cases, though generally responsible for lower and more occasional crop losses are sclerotinia and verticillium wilt.

Breeding and selecting varieties in areas of high phoma incidence across Europe with no fungicide treatment whatsoever has allowed us to build on the RLM7 phoma resistance we first identified more the 25 years ago..

This resistance has proved remarkably robust over this time. With performance stability our over-riding aim, however, we have reinforced it with polygenic resistance from the large number of minor genes we also know effect other aspects of phoma growth and stem canker development.

Our so-called double phoma resistance provides the highest levels of protection available against the disease as well as the best safeguards against the breakdown of either the RLM7 gene or its supporting minor genes.

In parallel to this we have progressively developed high levels of light leaf spot resistance in our breeding programme, using the most advanced hybridisation techniques to combine this with double phoma resistance in varieties offering market-leading levels of all-round foliar disease resistance.

This degree of resistance gives the greatest possible flexibility in fungicide timings and insurance against weather-restricted spraying opportunities. It also limits the danger from the changing light leaf spot sensitivity evident to the main fungicide controls in recent years, as well as offering the possibility of worthwhile savings in fungicide cost savings.

The rapid leaf development and vigorous early spring growth of many of our varieties is proving of additional disease management value in allowing crops to grow away from infections **pest damage**.

Although reliable sources of resistance to verticillium wilt have yet to be pinpointed, different varieties are known to be affected by the disease to different extents, enabling us to identify valuable degrees of tolerance in our breeding programme. Varieties with this ability are particularly appreciated given the lack of any chemical control options.

Sclerotinia is another threat for which we have yet to discover a genetic solution. Thankfully, however, well-timed sprays during flowering are highly effective at controlling this disease.

Since sclerotinia risk increases with the length of flowering, our low biomass varieties with particular winter hardiness which have an inherently shorter flowering period could also be of value here in limiting the number of sprays required.



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Disease management varieties dekalb recommends!

DK EXALTE A leading combination of fast early plant development and DEKALB's yield protecting traits. [Learn More](#)

DK EXTROVERT Farmer's established choice. [Learn More](#)

DK IMPERIAL CL The Benchmark Clearfield Variety. [Learn More](#)

DK EXCLAIM A stiff stemmed high yielding variety with DEKALB's leading yield protecting traits. [Learn More](#)



