



OILSEED RAPE VARIETY GUIDE



Featuring
Comparison
Variety Guides
See Page 20

THE ESSENTIAL GUIDE
to Oilseed Rape



A WORD ON OUR MARKET LEADING PORTFOLIO

Matt Shand - Commercial Manager



“The past five years has seen a dramatic rise in our market share of oilseed rape and we now sit proudly as market leaders.”

Limagrain UK Ltd is very proud to be able to offer growers top varieties from multiple species which cover most requirements of the farming rotation in the UK whether it be Cereals, Maize, Pulses, Sugar beet, Forage or Environmental. Our aim is to offer the best genetics to farmers supported by the best technical advice from our species experts.

The past five years has seen a dramatic rise in our market share of oilseed rape and we now sit proudly as market leaders. This success comes from the quality of our genetics particularly in the hybrid sector with all of our commercial portfolio boasting fully loaded hybrids, all of which contain TuYV resistance, Pod shatter resistance and RLM7 resistance to Phoma. Our portfolio consists of tried and tested consistent varieties such as Aurelia and Ambassador.

Limagrain UK are now proud to introduce our 7th generation Stem Health offerings which we are confident will not only improve on our recent success but continue to offer further security and quality to UK growers.



LG OILSEED RAPE

Liam Wilkinson - OSR Product Manager



The UK OSR crop is certainly not without its challenges. As the adage goes ‘adversity is the mother of invention’. And with that in mind there has never been a more exciting time to be involved with Oilseed rape varieties and breeding.

Through our UK based programme Coretta Kloeppel and her team have delivered varieties that have performed consistently for UK growers with risk mitigation at the forefront of what we produce and bring to the UK market.

Extensive screening across the UK and Europe means that we know how our varieties can perform in a wide range of situations. This insight allows us to get the very best out of every variety.

With security in mind, we have varieties in categories such as Clearfield, Clubroot, Conventional and Hybrid to help maximise grower return in differing situations and more importantly allows us to replicate performance consistently on farm year after year.



CORETTA
KLOEPPEL,
LIMAGRAIN UK
OSR BREEDER

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OSR NUTRITION - IT'S MORE THAN NPKS!

FULLY LOADED HYBRID

LG AVIRON

BREEDERS REFERENCE: LE17/332
TRIAL STATUS: RECOMMENDED UK

Very vigorous fully loaded hybrid demonstrating consistently high yield potential across all regions and seasons.



KEY STRENGTHS

Consistently high yields across regions and seasons

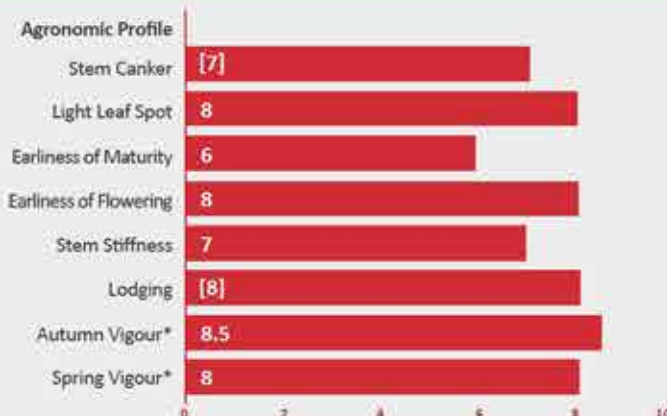
Exceptional autumn and spring vigour

Suitable for main to late drilling window

Fully loaded hybrid N-Flex, RLM7+, POSH, TuYV

Very strong resistance to Light Leaf Spot, with one of the highest LLS scores available

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.



PHIL BURRELL
Agronomist - Yara UK

Ensuring adequate nutrition of oilseed rape crops is vital to maximise yield and profitability. There are a number of nutrients the crop requires over and above Nitrogen Phosphate, Potassium and Sulphur, namely:

Boron plays a key role in cell wall biosynthesis, carbohydrate metabolism, cell division and cell elongation. This ensures the crop has a good plant structure. It is therefore critical during periods of rapid growth - firstly during establishment and then again as the crop enters stem extension. Boron also has a role in pollen germination. Adequate boron levels ensure even flowering, which in turn can lead to higher seed set.

Magnesium is well known for its role in photosynthesis, being a central part of chlorophyll. However the majority of magnesium

YaraVita Brassitel Pro

YaraVita Brassitel Pro was developed specifically for the oilseed rape crop. It contains all the above nutrients in an easy to use formulation. A fully replicated trials programme conducted over 6 years (2016 - 2021) showed that two applications, applied once in the autumn and again in the spring just prior stem extension, delivered an average yield increase of 0.29 t/ha. It's so easy - all the essential nutrients your OSR crop needs, in one can.

For more information visit:

www.yara.co.uk/crop-nutrition/fertiliser/micronutrient/yaravita-brassitel-pro/



required by the oilseed rape plant is taken up in a short period just prior to flowering. An adequate supply during this time is therefore essential. Recent trials confirm this. Crops showing higher levels of magnesium concentration in the leaves have a tendency to produce the higher yields.

Manganese is also involved in photosynthesis during the growing season. Another important role is the function of carbohydrate metabolism and lipid synthesis. This has an effect on oil production. Crops deficient in manganese are likely to suffer from lower oil content and also lower seed yields.

Molybdenum deficiency in brassica crops is widely known as "whiptail". It's primary function in the plant is to improve nitrogen utilisation by metabolising nitrate. If deficiency occurs the leaves become pale and limp. This can reduce the leaf area available for intercepting sunlight. This can lead to reduced photosynthesis, resulting in a lower pod yield. Unlike the majority of other nutrients, molybdenum becomes more available at higher pH so deficiency is often restricted to acidic soils.

"I have an interest in increasing crop yields and profitability by optimising nutrition."

PHIL BURRELL

Agronomist working for Yara UK Ltd with 25 years experience of practical farming. Currently responsible for the YaraVita range of foliar fertiliser and biostimulants.

FULLY LOADED HYBRID

LG ANTIGUA

BREEDERS REFERENCE: LE17/335
TRIAL STATUS: RECOMMENDED EAST/WEST

High yielding fully loaded hybrid with a strong all round agronomic package and early maturity.



KEY STRENGTHS

Growth habit suited to earlier drilling scenario

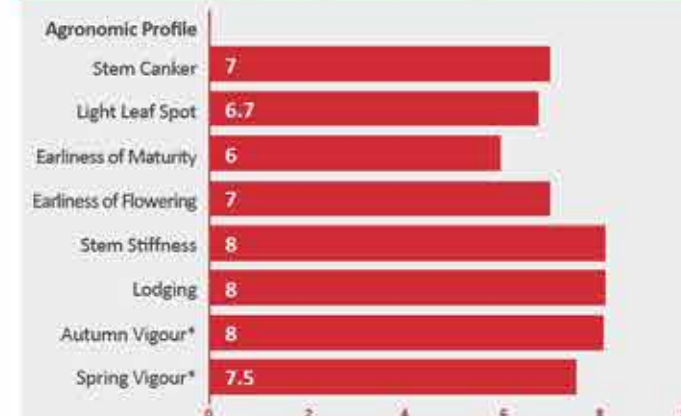
Well suited to main to late drilling window

Fully loaded hybrid with RLM7, POSH, TuYV

Tall hybrid but with good standing power

Early to mature variety

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.





POD SHATTER RESISTANCE



FULLY LOADED HYBRID

AMBASSADOR

BREEDERS REFERENCE: LE16/319
TRIAL STATUS: RECOMMENDED UK

Tried and tested variety on farm, offering high yields and fantastic vigour.



KEY STRENGTHS

Very good autumn and spring vigour

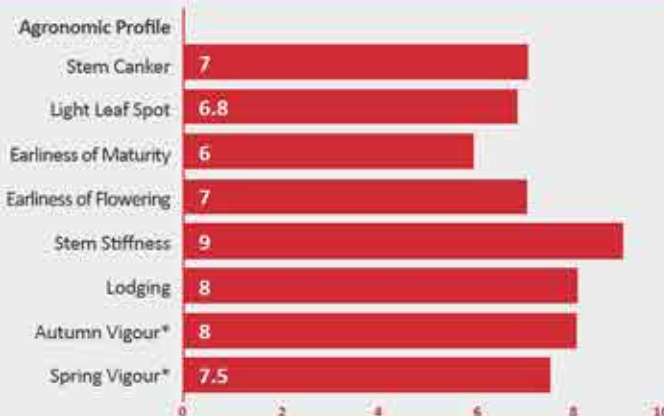
Wide sowing window offers flexibility on farm

Fully loaded hybrid N-Flex, RLM7+, POSH, TuYV

N-Flex offers yield security associated with sub-optimal Nitrogen

Robust hybrid with proven performance across seasons and regions both in trial and on farm

AGRONOMIC PROFILE



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DAVID FULLER-SHAPCOTT
Grows Ambassador
in the Scottish Borders

“Last year, some crops were devastated by storms, whilst others appeared relatively unscathed, which showed very clearly, the value of pod shatter resistance.”



LIAM WILKINSON
OSR Product Manager

Losses in the period up to harvest in oilseed rape can often be high. However, there are several ways that these can be kept to a minimum, says Liam Wilkinson, Development Officer for Arable Crops for Limagrain UK.

“Choosing to grow a variety with built in pod shatter resistance is one of the most important things you can do,” he says.

“Last year, some crops were devastated by storms, whilst others appeared relatively unscathed, which showed very clearly, the value of pod shatter resistance.”

Pod shatter is a natural process for seed dispersal in oilseed rape, however on farm it can result in significant seed loss caused by drought, heavy wind, rain, hailstones, or the combine passing through the crop.

The pod shatter (POSH) resistance gene was originally introduced into OSR together with the restorer gene from radish. Not all hybrids carry POSH resistance as the trait can be lost in the breeding process to improve the restorer.

“At Limagrain, we precisely quantify pod shatter resistance using lab-based techniques, where the force required to shatter the pod is measured, and this clearly shows that not all POSH resistant varieties offer the same level of resistance,” he says.

“All of our commercial hybrids contain the trait and we constantly monitor the efficacy of our pod shatter resistance against other commercial varieties so we can be confident in our claims that the variety really is pod shatter resistant.

“POSH resistance can also help to provide some flexibility in the timing of the harvest, which can be as much as 14 days extra in our tests,” he says.

“In addition, a robust POSH resistance cuts down the number of volunteers in the following crop, easing the burden of weed control.



FULLY LOADED HYBRID

AURELIA

BREEDERS REFERENCE: LE16/321
TRIAL STATUS: RECOMMENDED UK

Fully loaded hybrid with proven performance across all regions, high autumn vigor and robust disease resistance.



KEY STRENGTHS

Exceptional autumn and spring vigour

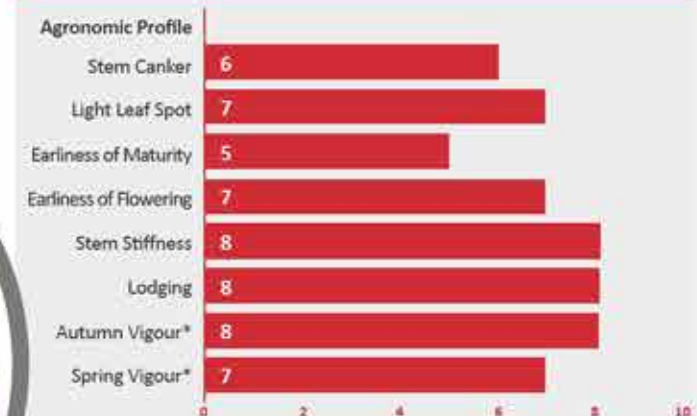
Solid disease resistance

High yielding variety across all regions of the UK

Fully loaded hybrid with RLM7, POSH, TuYV

Proven on farm and Trial performance across a number of years

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.





STEM HEALTH BRINGS YIELD SECURITY

FULLY LOADED HYBRID

ATTICA

BREEDERS REFERENCE: LE19/419
TRIAL STATUS: RECOMMENDED UK

Attica is the highest yielding variety to combine stable high yields with the genetic security of TuYV and pod shatter resistance.



KEY STRENGTHS

Highest yielding LG variety

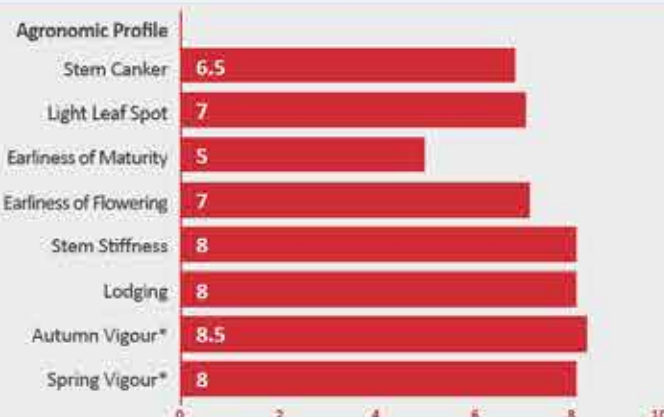
Reliable performance across regions

Fully loaded hybrid with RLM7, POSH & TuYV

Excellent resistance to Phoma stem canker, light leaf spot & verticillium

Testing shows consistently high performance

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.



Launched by breeders Limagrain UK, on the back of their well established and very successful trait-loaded hybrid breeding programme, this attribute covers the three main stem-based diseases of OSR - phoma, Cylindrosporium (Light leaf spot) and verticillium.

"To date, there has been no valuable way of assessing a variety's tolerance to the three most common stem based diseases in a quantifiable way - and this is what we have set out to do with the launch of 'Stem Health,'" says Liam Wilkinson, OSR Product Manager for Limagrain.

“For a Limagrain variety to hold the Stem Health tag it has to offer high levels of disease resistance to all three diseases – one single weakness leads to exclusion from the Stem Health list, or the right to carry the Stem Health claim.”

He believes the addition of this characteristic to the Limagrain programme brings another level of genetic security to help mitigate as much risk as possible to an already risky crop.

"Stem health is generally an area that is often overlooked but can have a serious impact on gross output. However by having healthy green stems longer into the growing season we often see higher yields and oil content," he notes.

"As breeders, we have recognised that the best way to mitigate the risk to on-farm performance from these diseases, is through improved genetics, therefore Stem Health has been a key focus for the Limagrain European breeding programme.

With three breeding stations across Europe, and collaboration with national institutes and universities, Limagrain has been able to test and evaluate material across different disease pressures, which has resulted in a big improvement of LG germplasm over the last few years.

"We select plants with good strong stems that stand well – we know the genetics will hold up," says Mr Wilkinson.

Stem Health offers a measurable and tangible level of stem-based disease resistances to help oilseed rape varieties maintain green healthy stems for longer - enabling the crop to reach its full genetic yield potential.



TO UK OILSEED RAPE CROPS

FULLY LOADED HYBRID

LG WAGNER

BREEDERS REFERENCE: LE19/428
TRIAL STATUS: RECOMMENDED NORTH

The highest yielding variety in the North, short stiff stemmed variety with strong disease resistance package.



KEY STRENGTHS

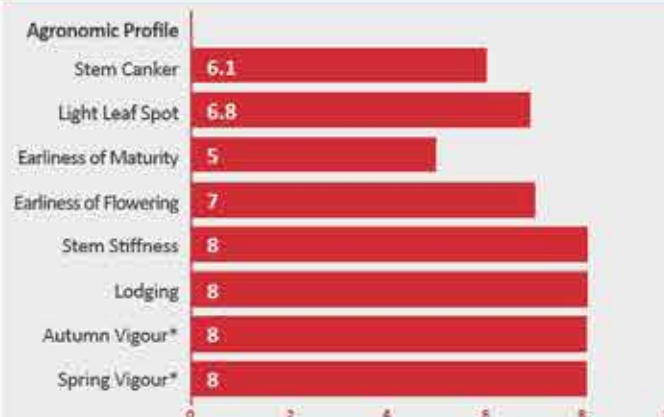
Very high yield potential

Fully loaded hybrid with RLM7, POSH and TuYV resistance

Solid disease resistance for both stem canker and light leaf spot

Short and stiff stemmed with strong Autumn vigour

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.



FULLY LOADED HYBRID

LG AUCKLAND

BREEDERS REFERENCE: LE18/350
TRIAL STATUS: RECOMMENDED UK

High yielding fully loaded hybrid with one of the highest untreated gross outputs on RL.



KEY STRENGTHS

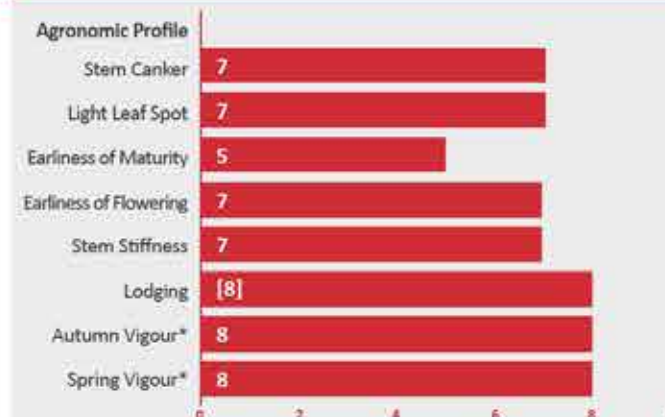
Very high yield potential

Fully loaded hybrid with RLM7, POSH and TuYV resistance

Solid disease resistance for both stem canker and light leaf spot

Strong Autumn vigour

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.





TURNIP YELLOWS VIRUS (TUYV)



ANYTHING BUT CONVENTIONAL

ANNIKA

BREEDERS REFERENCE: LEL18/415
TRIAL STATUS: RECOMMENDED UK

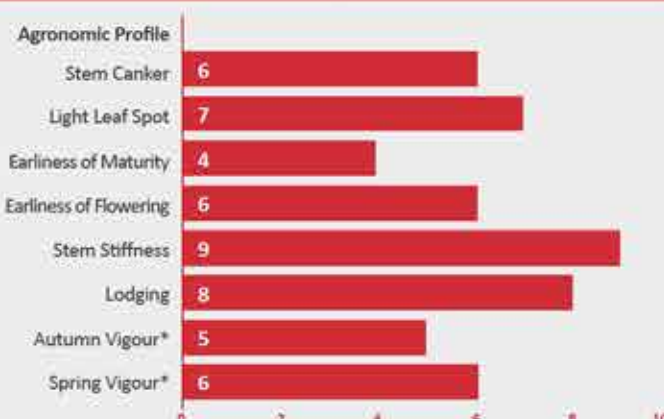


TuYV resistant conventional variety, suited to the earlier drilling slot with a strong disease resistance profile.

KEY STRENGTHS

- TuYV resistant conventional variety
- Very strong disease resistance
- Very well suited to earlier drilling
- Shorter plant with excellent stem stiffness
- High yield potential across all regions

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.



LIAM WILKINSON
OSR Product Manager

Turnips yellows virus (TuYV) is spread by the peach potato aphid (*Myzus persicae*). It can impact yields by as much as 30% in highly infected situations and oil content by 3%, evidence suggests that it may also increase glucosinolate levels.

The results come from a survey carried out by Limagrain, in collaboration with Agrii. Random leaf samples were taken from oilseed rape varieties across Agrii's UK trial sites and tested in Limagrain's laboratories at Rothwell, Lincs.

"It is clear from these results that TuYV is endemic in the UK OSR crop, irrespective of region and is directly linked to the autumn aphid migration."

Early symptoms of TuYV can be expressed by purpling of the leaves, interveinal yellowing and reddening of leaf margins. These can easily be confused with other stress symptoms such as nutritional deficiencies and often go unnoticed altogether which is why the effect of the virus is underestimated.

According to David Leaper of Agri, who urges growers to strongly consider the role that varietal resistance can play in combatting the scourge.

"With the loss of neonicotinoid seed treatments, a move to earlier drilling and increasing resistance to insecticides, control of aphids has become more and more difficult and subsequently aphid-borne diseases more prevalent."

"It is clear from these results that TuYV is endemic in the UK OSR crop, irrespective of region and is directly linked to the autumn aphid migration."



OSR LEAF SHOWING TUYV DAMAGE

Trials show that TuYV-resistant varieties can deliver an additional yield of up to 10% under severe infection when compared to non-resistant varieties

"The most exciting news for OSR growers this autumn is that they have the option of choosing high-yielding TuYV-resistant varieties, that have been proven to mitigate yield losses particularly in high infection situations."

To watch a video about the importance of TUYV resistance
[CLICK HERE](#)



ANYTHING BUT CONVENTIONAL

AMARONE

BREEDERS REFERENCE: LEL18/416
TRIAL STATUS: RECOMMENDED UK NORTH REGION



A high yielding TuYV resistant conventional with strong autumn and spring vigour and earlier maturity.

KEY STRENGTHS

- TuYV resistance
- Very high yield potential
- Good autumn and spring vigour
- Shorter, compact plant type
- Consistently high performance across regions

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.





CLUBROOT IN SCOTLAND - THE VIEW FROM THE NORTH

Oilseed rape variety choice in Scotland is largely determined by two diseases, Light Leaf Spot and Clubroot. The latter requires careful selection to ensure resistance, or at least tolerance. With well over half of land tested showing infection present, Clubroot risk remains considerable. Worryingly, in areas such as the North-East of Scotland you could be looking at 75% of land being infected with Clubroot.

Given the importance of winter oilseed rape as a break crop, it is essential to manage the crop in such a way that the risk is minimised. The use of resistant varieties has been widespread in Scotland since the introduction of Mendel in 2003.

Unfortunately, current resistant varieties still base their resistance on the same genetic toolbox as Mendel. Growers have found to their detriment that this resistance will break if pushed too hard, hence the need to look at a minimum of a five-year rotation.

With a half-life estimated at 4 years for the Clubroot pathogen (*Plasmodiophora brassicae*) the longer the gap between oilseed rape and other susceptible crops, the better. Planning,

testing of fields for infection and monitoring of crops for infected areas are all essential tools in the ongoing battle. It has been particularly noticeable in the last few years that some cover crop mixtures can exacerbate Clubroot occurrence. In my own recent experience with relatively "clean" land, only one previous oilseed rape crop showed severe symptoms after cover crops were grown. This highlights yet another aspect to consider when choosing what and where to grow cover crops.

While wet and warm autumns certainly encourage disease development, there is not a huge amount we can do to control the weather. We can minimise the risk of contamination from infected soil by cleaning down machinery between fields, which is of particular importance when using contracted in machinery. Ultimately, wet soils will always encourage clubroot, so any improvement to drainage will have a beneficial effect. All easier said than done, but not impossible.



SCAN FOR MORE DETAILS

JOHN AYNLEY
Uses varietal
selection to mitigate
clubroot issues in
Saltburn

FULLY LOADED HYBRID

LG ANARION

BREEDERS REFERENCE: LE17/340
TRIAL STATUS: NATIONAL LISTED

Fully loaded
Clubroot
resistant hybrid
with high yield
potential and
robust disease
resistance.



KEY STRENGTHS

High yielding fully loaded clubroot resistant variety

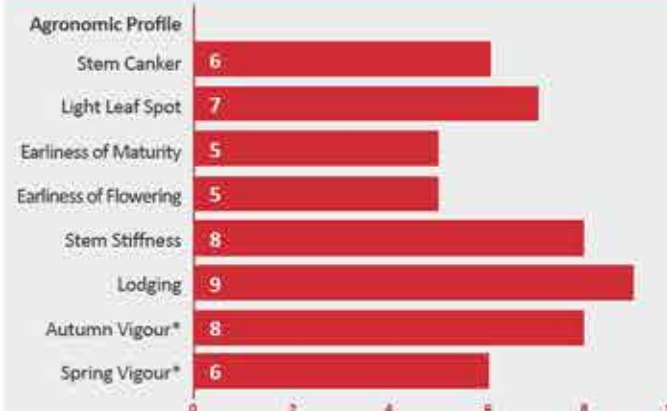
Short robust plant type with good standing

Very good disease resistance package with particularly good LLS resistance

Rapid autumn growth

Very good winter hardiness

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24.
On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).
[] = limited data. Agronomic features marked with * are breeders perspective.



FULLY LOADED HYBRID

LG SCORPION

BREEDERS REFERENCE: LE18/359
TRIAL STATUS: NATIONAL LISTED

Fully loaded
Clubroot
resistant variety,
high yielding
with rapid
autumn and
spring growth.



KEY STRENGTHS

High yielding clubroot variety

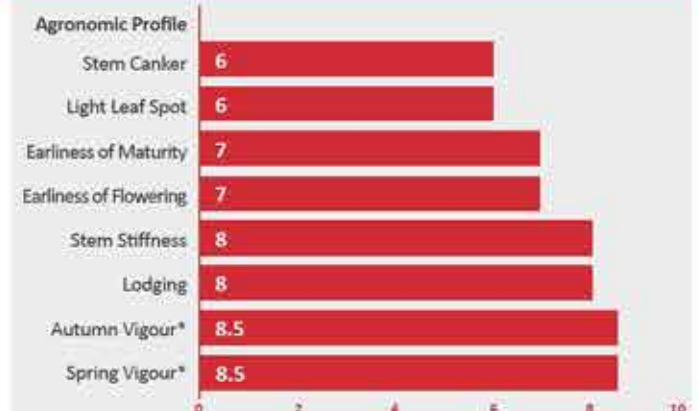
Exceptionally quick autumn & spring growth

Robust disease resistance package

Good verticillium tolerance

Fully loaded with TUYV, POSH & RLM7

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24.
On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).
[] = limited data. Agronomic features marked with * are breeders perspective.





CASE FOR CONVENTIONAL

ANYTHING BUT CONVENTIONAL

ACACIA

BREEDERS REFERENCE: LEL16/326
TRIAL STATUS: RECOMMENDED UK



Acacia remains the most popular UK open pollinated variety. Offering high yields and consistency across seasons and regions.

KEY STRENGTHS

The biggest conventional variety in the market

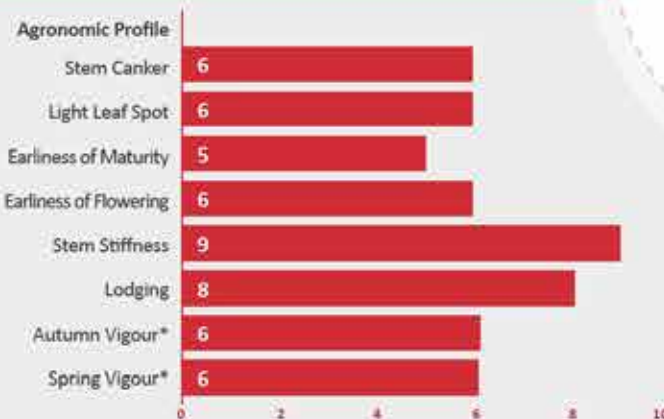
Robust plant type with good straw strength

Wide sowing window

Solid disease resistance profile

Proven on farm and trial performance across a number of years

AGRONOMIC PROFILE



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LIAM WILKINSON
OSR Product Manager

Oilseed rape growers do not have to rely on hybrid varieties to access the vigour their crops need to escape damage in the autumn.

Selected conventional varieties also exhibit the good early vigour that will enable them to grow past the potential damage that can be caused by cabbage stem flea beetle, says Liam Wilkinson OSR Product Manager, for plant breeders, Limagrain UK. Conventional OSR varieties account for 20 - 25% of all crops, a smaller proportion of the national crop than for some time, he adds. "They have ceded the majority of the market to hybrids, which traditionally offer greater vigour and the opportunity to 'stack' beneficial traits such as resistance to pod shatter and disease." Amongst Limagrain's conventional varieties both **Acacia** and **Amarone** show similar characteristics, he notes. "Growers are looking for vigorous growth in the autumn, and to establish a canopy as quickly as possible so the crop gets away from the adult beetles."

“Growers are looking for vigorous growth in the autumn and to establish a canopy as quickly as possible so the crop gets away from the adult beetles.”

"With new conventionals **Annika** and **Amarone** also offering TuYV resistance, they can help form the basis of an IPM strategy or those looking to reduce reliance on autumn insecticides." "They go on in the spring to reach eight true leaves and around 8cm collar with a 15cm tap root quickly, which helps protect them against larval damage".

Two Farmers who continue to grow conventional varieties are Tim Parton, a well-known advocate for regenerative agriculture, based in South Staffordshire, and Andy Roberts, who farms on the Staffordshire/Shropshire border. Tim grows around 40 hectares of a three variety blend at the 300ha Brewood Park Farm, South Staffordshire. That blend includes **Acacia** and **Annika**. "By combining several varieties I get stronger disease resistance which helps keep costs down. At the same time, those three varieties are adapting to my farm's soil and conditions."



TIM PARTON
Grows conventional OSR in a regen system

"When they are senescing they send endophytes into the seeds that are ready to be sown into the environment they have been grown in, which improves plant genes for the future. "They fit into a six year rotation alongside milling wheat, spring barley, spring beans, lupins and grass leys used for making haylage. cover crops are put in ahead of all spring crops and grazed by sheep – or 'mobile composting units' as Tim calls them. He aims to direct drill the crop with a companion crop in the first week of September, and uses a high seed rate to achieve 100 plants/m². The companion crop is normally a mixture of crimson, white and burseem clover. He also adds molybdenum, sulphur, boron and manganese in the seedbed. "The young plants will synthesise sugars and will not be attracting flea beetles". Total N supplied is around 170kgs/ha, much of that being supplied as foliar applications in response to the results of frequent tissue and sap testing. Average yields have been around 5t/ha over the years, although cold springs have reduced that in recent years. On the Staffordshire/Shropshire border Andy Roberts grows oilseeds in a rotation formed around winter wheat and spring barley, with breaks of either oilseed or potatoes. The 320ha Lower Barns Farm, Pattingham, also supports a small suckler herd. Across much of the farm oilseeds are grown one year in six; in areas not suitable for potatoes it may be as frequent as one year in four. This year he sowed over a wider window than normal – from mid-August to the first week of September – working the land with a Sumo Trio and broadcasting the seed off the back so the following roller pressed the seed to achieve good soil-to-seed contact. In some fields he spreads chicken muck before sowing, working it in with a Vaderstad Carrier, to add both organic matter and nutrients to their mainly sandy loam soils. Seed rates depend on sowing date: "We are sowing earlier these days to avoid flea beetle damage. We sow 60 – 70 seeds/sq m in mid-August and raise that to 80 seeds/sq m in September. "We grow **Acacia** because we have always used conventionals as they tend to be a bit shorter stemmed, and have good standing ability which makes them easier to harvest. We don't save seed at the moment, but it is useful to have that option should we want it." Yields on the farm tend to average around 4t/ha, although last autumn one September-sown field topped 5t/ha.

ANYTHING BUT CONVENTIONAL

ASPIRE

BREEDERS REFERENCE: LEL15/309
TRIAL STATUS: RECOMMENDED UK



A robust conventional variety with TuYV resistance & consistent performance in both trials and on farm.

KEY STRENGTHS

Conventional with TuYV

Robust and resilient plant type

Ideally suited to early drilling

Slower speed of development

Consistent performance across all regions of the UK

AGRONOMIC PROFILE



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CLEARFIELD



Clearfield[®]
Production System for Oilseed Rape



Clearfield oilseed rape varieties are primarily to be used in conjunction with BASF post emergence herbicides Clearanda and Cleravo. This system was designed to allow growers to wait until they had a crop fully established before investing in an herbicide programme.

Clearfield also offers growers the opportunity to control otherwise difficult to manage weeds such as charlock, runc, hedge mustard and shepherds purse. They are also useful in controlling non-Clearfield OSR volunteers which can potentially effect erucic acid levels.

With the trend towards earlier drilling anecdotally I have seen instances where early crop vigour and establishment can be linked to the applications of ALS herbicides in previous cropping. And whilst product labels stipulate following crop restrictions, which should always be followed; as an example, Ally Max (metsulfuron-methyl and tribenuron-methyl), applications up to GS 41 in previous cropping, should not have rape planted for 3 months and only with soil ploughed and cultivated to a depth of 15 cm.

With the earlier drilling that is now becoming common place and a move away from full inversion tillage and deep cultivations it is possible that we are seeing higher residual levels of ALS herbicides in the seed bed which can impact emergence and vigour. Therefore, in cropping situations where there has been heavy and late use of ALS previously it may be worth considering the use of a Clearfield Variety.

“Therefore, in cropping situations where there has been heavy and late use of ALS previously it may be worth considering the use of a Clearfield Variety.”

FULLY LOADED HYBRID



LG CONSTRUCTOR CL

BREEDERS REFERENCE: LE17/335
TRIAL STATUS: RECOMMENDED UK



A short, stiff stem hybrid variety. Tolerant to Clearfield herbicides and with the added security of TuYV and pod shatter resistance.



KEY STRENGTHS

Tolerant to clearfield herbicides

Useful where late or strong applications of ALS herbicides applied to previous crops

Shorter than traditional clearfield varieties with good standing

Solid disease resistance profile

Strong autumn growth habit

AGRONOMIC PROFILE



Data from the AHDB Oilseed Rape Recommended List 2023/24. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). [] = limited data. Agronomic features marked with * are breeders perspective.



ESTABLISHMENT



An analysis of more than 180 commercial Oilseed Rape (OSR) crops from 2017 to 2020 through the Oilseed Yield Enhancement Network (YEN) has allowed us to further our understanding of factors that associate with yields.

Whilst cabbage stem flea beetle (CSFB) continues to pose a challenge in establishing and growing OSR, and husbandry targeted at minimising the negative effects of CSFB on the crop are important, there are many other factors that can contribute to success. The average YEN yield in this Oilseed YEN dataset was 4.7t/ha, with crops ranging from 1.7 to 6.8t/ha. The analysis of these crops has revealed the following advice to help growers to get closer to the potential of their crops:

- Target plant populations of 25 – 40 plants/m² to produce large plants with many seeds.
- Maximise seeds/m², with over 100,000 seeds/m² where targeting yield of 5t/ha or more/
- Focus on minimising foliar disease & managing canopy size - to maximise light interception.
- Prolong the period from flowering to desiccation with good nutrition & disease control.
- Avoid P and Mg deficiency – use soil, tissue & seed analysis to monitor.
- Mitigate against adverse weather by maximising soil water storage & root depth to avoid summer drought.

AUTHOR - DR SARAH KENDALL

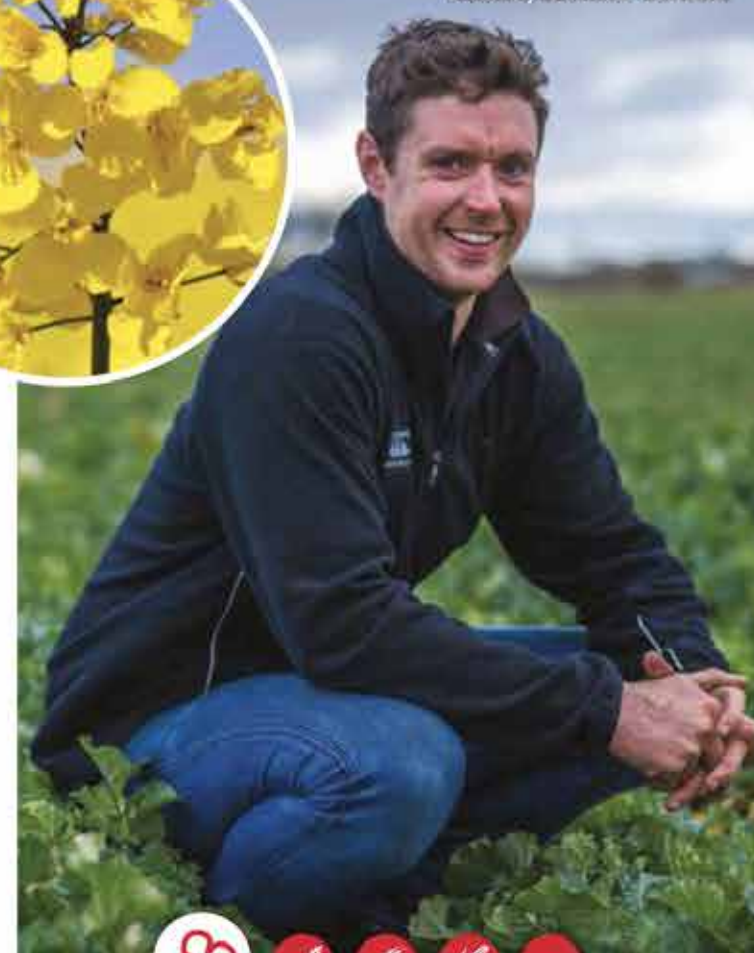
Dr Sarah Kendall is a Crop Physiologist based in ADAS Gleadthorpe and is an Associate Managing Director of the ADAS Soils, Crops and Water team. Sarah's work involves the management, analysis and reporting of crop experiments carried out on oilseed rape and winter wheat.

Sarah also leads the Oilseed Yield Enhancement Network (YEN).



“THE VIGOUR SIDE OF AURELIA IS TERRIFIC”

Robert, Scottish Borders



AURELIA
FULLY LOADED HYBRID

Still the Market Leader



SOWING WINDOW

Autumn vigour is one of the first things growers ask about when considering an OSR variety to fit their rotation. When it comes to OSR establishment, it is important to look at vigour as a tool, not a Get out of Jail Free Card. Vigour offers growers a way to extend the sowing window, affording the leeway to drill when conditions are favourable.

OSR will germinate rapidly and getting it from cotyledon to 3-4 true leaves - the key period of risk for adult cabbage stem flea damage - is critical to the success of a crop. Moisture remains key and by selecting a variety with better vigour, growers can have confidence in their decision to wait, drilling only when soil conditions are conducive.



“OSR will germinate rapidly and getting it from cotyledon to 3-4 true leaves - the key period of risk for adult cabbage stem flea damage - is critical to the success of a crop.”

RYAN KEMP,
LG TRIALS
OFFICER

SOWING WINDOW

	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
ANNIKA					
ACACIA					
AMARONE					
ASPIRE					
AMBASSADOR					
ANARION					
ATTICA					
AURELIA					
AVIRON					
LG ANTIGUA					
LG AUCKLAND					
LG WAGNER					
LG CONSTRUCTOR					
LG SCORPION					

Recommended sowing period Potential sowing period depending on seasonal conditions



FULLY LOADED HYBRIDS



The Foundation of IPM
in OSR crops



Disease resistance to
maximise gross output



Genetic tolerance
to club root



The final level of
yield security



Yield retention in
suboptimal nitrogen



LG OILSEED RAPE

Trait focussed hybrids, bred with security in mind



HYBRID VARIETY SELECT ION GUIDE



ATTICA

LG WAGNER

LG AUCKLAND


AMBASSADOR

AURELIA

LG AVIRON

LG ANTIGUA

LG CONSTRUCTOR CL

Data source	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24
Variety type	Restored Hybrid	Restored Hybrid	Restored Hybrid	Restored Hybrid	Restored Hybrid	Restored Hybrid	Restored Hybrid	Restored Hybrid
Status	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended	Recommended
Scope of Recommendation	UK	North	UK	UK	UK	UK	East/West	UK
Gross output - UK (% controls)	107	104	106	105	105	105	101	95
Gross output - East/West region (% controls)	107	104	106	105	105	105	101	96
Gross output - North region (% controls)	107	108	102	103	104	103	101	92
Spring vigour *	8.5	8	8	8.5	8	8.5	8	7.5
Autumn vigour *	8	8	8	7.5	7	8	7.5	7.5
Resistance to lodging (1-9)	8	8	8	8	8	8	8	8
Stem stiffness (1-9)	8	8	7	9	8	7	8	8
Shortness of stem (1-9)	6	6	6	6	6	6	6	6
Plant height (cm)	149	143	150	148	145	150	151	143
Earliness of flowering (1-9)	7	7	7	7	7	8	7	6
Earliness of maturity (1-9)	5	5	5	6	5	6	6	6
Oil content, fungicide treated (%)	45.3%	45%	45.3%	44.8%	44.9%	44.4%	45.2%	44.2%
Glucosinolate (µmoles/g of seed)	12	11.7	12	10.9	10.2	11.2	11.5	15.8
Light leaf spot (1-9)	7	7	7	7	7	8	7	6
Stem canker (1-9)	7	6	7	7	6	7	7	6
N-FLEX	-	-	-	Y	-	Y	Y	-
Pod Shatter Resistance	Y	Y	Y	Y	Y	Y	Y	Y
TuYV	Y	Y	Y	Y	Y	Y	Y	Y
RLM7	Y	Y	Y	Y	Y	Y	Y	-
Clearfield®	-	-	-	-	-	-	-	Y
Stem Health	Y	-	Y	-	-	-	-	-
	Attica is a newly recommended fully loaded hybrid with full UK recommendation. It joins the recommended list as the highest yielding variety to combine stable high yields with the genetic security of TuYV and pod shatter resistance. Attica has a strong autumn growth habit offering growers a wide drilling window and offers a very good disease resistance package.	LG Wagner is a new addition to the North Recommended list and goes on as the highest yielding variety (108.1%) it was also the highest yielding variety in 2022 to possess the security of Pod shatter and TuYV resistance. It is a shorter hybrid with stiff stems combined with good LLS resistance and good stem health.	LG Auckland remains one of the highest yielding varieties on the recommended list to combine high yields with the security of TuYV, pod shatter and a strong disease resistance package. It has a flexible drilling window and its robustness is shown in that it has the highest untreated Gross Output on the RL.	Ambassador remains one of the highest yielding varieties on the 2023/24 Recommended list and demonstrated this performance across all regions of the UK. Ambassador is a fully loaded hybrid with TuYV and Pod Shatter traits which have proven their value on farm across several years.	Aurelia remains the most popular variety sold in the UK, thanks to its performance on farm and in trial. Coming 3rd in the AHDB 1-year results and topping NIAB trials. Harvest 22 saw on farm reports of 6t/ha + It has a robust disease resistance package and offers superb consistency across regions and seasons.	LG Aviron remains popular with growers thanks to its strong disease resistance package and rapid autumn growth. LG Aviron is one of the only 8 rated varieties for light leaf spot this is shown in its untreated gross output of 107%.	LG Antigua is a consistently high yielding, E/W recommended variety with strong disease resistance. It possesses the crucial trait of pod shatter resistance, essential in securing yields over recent storms and extreme heat.	LG Constructor CL is the first hybrid from Limagrain to combine Clearfield herbicide tolerance, pod shatter and TuYV resistance. Yields are higher than older generations of CL varieties, approaching those of the mainstream varieties. It is a short variety with the best stem stiffness rating in the Clearfield sector. It has a strong disease package with 6's for both LLS and Phoma stem canker.

All data from the AHDB Winter Oilseed Rape Recommended Lists 2023/24

R = Resistant. () = limited data. On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance). Agronomic features marked with * are breeders perspective. Y = variety possesses trait



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CONVENTIONAL VARIETY SELECTION GUIDE



		ACACIA	ANNIKA	AMARONE	ASPIRE
	Data source	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24	AHDB RL 2023/24
	Variety type	Conventional	Conventional	Conventional	Conventional
	Status	Recommended	Recommended	Recommended	Recommended
	Scope of Recommendation	UK	UK	North	UK
GROSS OUTPUT	Gross output - UK (% controls)	101	101	99	98
	Gross output - East/West region (% controls)	101	101	98	98
	Gross output - North region (% controls)	101	101	102	99
VIGOUR	Spring vigour *	6	5	6.5	4.5
	Autumn vigour *	6	6	6.5	4.5
AGRONOMIC CHARACTERS	Resistance to lodging (1-9)	8	8	8	8
	Stem stiffness (1-9)	9	9	8	9
	Shortness of stem (1-9)	7	6	7	7
	Plant height (cm)	141	143	138	136
	Earliness of flowering (1-9)	6	6	7	7
SEED QUALITY	Earliness of maturity (1-9)	5	4	5	5
	Oil content, fungicide treated (%)	45%	45%	44.8%	45.2%
	Glucosinolate (µmoles/g of seed)	8.1	11.6	11.9	9.9
DISEASE RESISTANCE	Light leaf spot (1-9)	6	7	7	7
	Stem canker (1-9)	6	6	6	6
SPECIAL TRAITS	N-FLEX	-	-	-	-
	Pod shatter resistance	-	-	-	-
	TuYV	-	Y	Y	Y
	RLM7	-	-	-	-
	Clearfield®	-	-	-	-
VARIETY COMMENT	Stem Health	-	-	-	-
		Acacia remains the UK's most popular open pollinated variety, for those who prefer not to grow hybrids it is a variety which offers high yields and consistency across seasons and regions. With key agronomic characteristics of strong autumn growth and good spring vigour, solid disease resistance and short, stiff straw, combined with a high oil content.	Annika is an open pollinated conventional variety. Well suited to the early drilling window, it has genetic resistance to TuYV, later maturity and excellent disease resistance.	Amarone is a conventional variety boasting the TuYV resistance trait that gained recommendation for the north region. It is a short stiff stemmed variety with an excellent disease resistance with 7 for light leaf spot and a 6 for phoma stem canker. The variety has strong autumn dynamic growth profile and strong spring vigour	Aspire is an open pollinated variety with crucial TuYV resistance. Aspire is a short robust plant type with very good straw characteristics. A solid disease and TuYV resistance means Aspire fits the early drilling option perfectly with its slower speed of development.

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LG UK DEMONSTRATION TRIAL SITES

LG are running open trial days at our sites. For dates or to book your place, please contact us on enquiries@limagrain.co.uk



**PERTH
PERTSHIRE**
11th July 2023



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**ROTHWELL
LINCOLNSHIRE**
4th July 2023



WOOLPIT, SUFFOLK
20th June 2023



**NEWBURY
BERKSHIRE**

21st June 2023

**MALDON
ESSEX**

23rd June 2023



Clearfield

Production System for Oilseed Rape

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