GrainCo

seed special

2021 edition

www.grainco.co.uk

The North of England & Scotland's leading farmer-owned grain and seed marketing business



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Front page photo courtesy of GW Conner & Sons

GrainCo

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Every care is taken in the preparation of this booklet, however it should only be used as a guide and GrainCo cannot accept any responsibility for any losses incurred as a consequence of this information.

Data from the AHDB Recommended List except where otherwise stated: Full database available at www.ahdb.co.uk



GrainCo

2021 PIERCEBRIDGE SEED PLANT CERTIFIED WINTER WHEAT AND WINTER BARLEY AVAILABILITY LIST

WINTER WHEAT

GROUP 1	KWS ZYATT, SKYFALL
GROUP 2	KWS EXTASE, KWS LILI
GROUP 3	KWS FIREFLY, LG ILLUMINATE
GROUP 4 SOFT	LG SKYSCRAPER, RGT SAKI
GROUP 4 HARD	COSTELLO, GLEAM, GRAFTON, GRAHAM, KWS PARKIN, WOLVERINE

WINTER BARLEY

Please order your barley requirements early to catch production runs

TWO-ROW FEED	BOLTON, KWS CASSIA, KWS ORWELL, KWS TARDIS
TWO-ROW MALTING	CRAFT
HYBRID*	SY KINGSBARN, BAZOOKA

WINTER OATS

DALGUISE, MASCANI

OILSEED RAPE

ACACIA, AURELIA, AARDVARK, AMBASSADOR, BARBADOS, CROME, CROCODILE, DK EXSTAR

In addition to the varieties listed above, we are also able to supply most if not all of the current RL varieties of Wheat, Barley, Oilseed Rape, Oats and Pulse's, just speak to your Grainco contact or our seed office at Tyne Dock.

*** Not processed at Piercebridge**

Welcome to Our Autumn 2021 Seeds Special



Peter Collins, Seed Production Manager, GrainCo

Firstly stepping aside from agriculture briefly, let's all hope that the progress being made at the time of going to print on the Covid 19 vaccine rollout really will help us all take the first steps back to getting the country and indeed the world back to some desperately needed semblance of normality.

This is my 43rd year working in agriculture and one thing never changes is that in agriculture we always seem to be battling a range of challenges. There is no doubt that Mother Nature over the past two years has provided us with some very challenging and volatile growing conditions and the production of certified seed crops has not escaped these challenges. Simply being able to get our seed crops harvested last autumn was a challenge in itself and one I hope we don't have to repeat this time round. Indeed a considerable quantity of both our winter and spring seed crops were lost creating more than a few headaches for all concerned.

Due to good planning however we have in recent years been able to supply a considerable tonnage of Yearling Seed which has helped greatly in alleviating the pressure on our plant, especially during the month of September. Having seed in the barn ready to drill has proved to be a real blessing to many customers not wanting to take the risk that their new season seed order might be delayed as a result of yet another catchy autumn.

As we look forward to this autumn, availability of Yearling Seed is understandably tight and without this buffer stock the pressure from growers in our region to have their seed delivered in good time will be as high as ever. Therefore we would ask growers more than ever to consider placing their orders in good time. This is particularly relevant when it comes to barley for once the plant switches over to wheat, it's a major challenge to find the time to return to the crop.



So which varieties should growers be looking at this autumn?

When it comes to wheat's, even with eight new recommendations I think in the majority of situations it will be very much a case of as you were with the odd exception. **Wolverine** for example will catch the eye of growers due to its ability to offer growers a genetic solution to the BYDY virus which can affect yields by up to 18%. Although it only has a 5 for yellow rust and a 5.3 score for septoria tritici the move to drill earlier increases the risk to crops of BYDV and the recent loss of deter has compounded the issue.

Why do I think this?

Well let's start by looking at last autumn's top ten varieties drilled and compare them against the top ten varieties entered for seed multiplication for 2021.

2020 drilled	2021 by area entered
Gleam	KWS Extase
KWS Extase	Skyfall
Skyfall	Gleam
LG Skyscraper	LG Skyscraper
Graham	KWS Zyatt
KWS Zyatt	KWS Firefly
KWS Firefly	Graham
RGT Saki	RGT Saki
Crusoe	Wolverine
Costello	Costello

The varieties may trade places a little, but overall due to the physical areas entered there isn't going to be a great deal of difference in terms of the key varieties we will see on farm this autumn.

In brief, **Gleam** is an exceptionally versatile variety, drilled early or late and comfortable in either rotational slot which is why it's so popular with growers. **Graham**, **KWS Firefly** and **RGT Saki** can also be drilled early if required and come with stiff straw and very good levels of disease resistance, the latter also being a very good second wheat. **LG Skyscraper** after a slow start is proving itself to be an exceptional all round variety and one that growers should seriously consider for the main drilling window. **KWS Extase** has a superb untreated yield, growers however need to be conscious of its vigorous nature so ideally doesn't need drilling until the end of September. We mustn't of course forget **Costello** for its ability to consistently produce good yields with exceptionally high specific weights.

Finally it's not on the RL list but for growers looking to drill reasonably early on very fertile sites should consider **KWS Parkin** due to its exceptionally short stiff straw and its very early maturity making it a great entry for osr.

Barley's

When we look at barleys I think the opposite to the wheat's springs to mind. Here we see three new two – row offerings all of which show a real positive yield difference over last year's market leader **KWS Orwell** and now more than ever can match the best of the hybrids.



Both **KWS Tardis** and **Bolton** from the Elsom/Ackerman stable sit joint top for yield at 106% of controls. Both varieties have medium tall exceptionally stiff straw, improved levels of disease resistance and good specific weights.

Supplies of these varieties are tight as C1 stocks were in short supply last autumn as a direct result of the wet autumn of 2019 restricting drillings. Therefore growers looking to get their hands on one or both of these varieties really should look to order early.

In addition due to production being switched to these two new varieties, our supplies of both **KWS Orwell** and **KWS Cassia** are very limited. We do however have good supplies of **KWS Hawking** which was new to growers last autumn and impressively claimed second place for market share last year.

Seed Treatments - Why treat seed?

Standard single purpose seed treatments that we use such as **Redigo Pro** and **Rancona i-mix** are vital to limit the effects of seed and soil borne diseases such as bunt, leaf stripe, fusarium, seedling blight and loose smut and are often undervalued by growers. At times we all need to be reminded of the benefits these "standard dressing" bring to the table with for example the control of loose smut where they offer control levels of up to 98% .

Certain seed treatments can also improve crop establishment, stimulate rooting, improve drought tolerance and ultimately build more resilient crops better able to withstand the extremes of both the weather and other stresses that might come their way.

Growers are already familiar with the benefits that treatments such as **Latitude**, **Manganese** and **Vibrance Duo** can offer and it's pleasing to be able to say that we can now also offer the bio-stimulant **Kick-Off** from Fielder.

Suitable for all crops and ideal for barleys, this bio-stimulant is the complete nutrient package for the emergence and establishment phases containing generous levels of phosphite, zinc, manganese, phosphate, nitrogen, sulphur and potassium, all designed to give the best possible start for the crop.

Oilseed Rape

With the greatly reduced area of OSR drilled in recent years, it's no surprise that we have a predicted shortfall of over 800k tonnes this year in the UK and on the back of some bullish prices growers could well be tempted back into growing this potentially profitable break crop. Therefore please take a few moments to read Dave Young's thoughts on the crop along with his variety recommendations on pages 26 & 27.

Looking ahead to 2022

Selecting a new variety for production is always a challenge, especially when we have to make decisions many months ahead of any potential recommendation and hindsight is always a wonderful thing to have!

One candidate variety we have our eye on for 2022 however is **KWS Dawsum**. This variety has the potential to be drilled early or late giving it much needed flexibility on farm. A current yield potential of 106% of controls puts it right up there alongside the best currently available. In addition to its yield it brings with it very stiff straw and a very good disease resistance package including a much needed 9 for Yellow rust, 8 for Brown Rust, 8 for Mildew and a solid 6.3 for Septoria. An added bonus that really catches our eye is its terrific specific weight of 80.1, a valuable characteristic in a difficult season.

Only time will tell but it's certainly one to look out for.

Field Days

To finish its great news that growers can all look forward to being able to get out and about once again and view varieties in the field after last years enforced absence. Indeed we are pleased to be able to invite customers along to both of our field demonstration days at Boroughbridge on the 23rd June and the following day the 24th June at Wylam.

Interest is bound to be high therefore please make your interest known to your **Grainco** contact in good time as places will be limited.

Finally I would like to thank all of our suppliers for their support towards making this seasons Seed Special possible and I hope you find it a useful and interesting read.



Barley Variety Comments

PLEASE ORDER YOUR BARLEY REQUIREMENTS EARLY TO CATCH PRODUCTION RUNS

KWS HAWKING — California x Tower — TWO-ROW — MARKET SHARE 13.7% — UK Yield 103% — East 105% — North 101%

In its first year of recommendation this variety became the UK's second most popular variety behind **KWS Orwell** which is no mean feat. This variety doesn't have any weaknesses and will suit those growers looking to move on from its sister variety **Orwell** due to its similar medium height stiff straw coupled with improved mildew resistance and a yield increase of 4% on heavy soils.

Specific wt kg/hl	68.7
Maturity	+1
Untreated Yield %	81
Straw Height without PGR cm	92
Straw Height with PGR cm	87
Light Soils %	101
Heavy Soils %	107

Mildew	5
Brown Rust	6
Net Blotch	6
Rhyncho	6
Resistance to Lodging	8

NEWLY RECOMMENDED

KWS TARDIS — *11–12 x Orwell — TWO-ROW — UK Yield 106% — East 107% — North 105%

The next jump in yield progression for 2-row barley. **KWS Tardis** out-performs current 2-row types and rivals even the hybrids, in fact on heavy land (110%) it is beaten by only one hybrid.

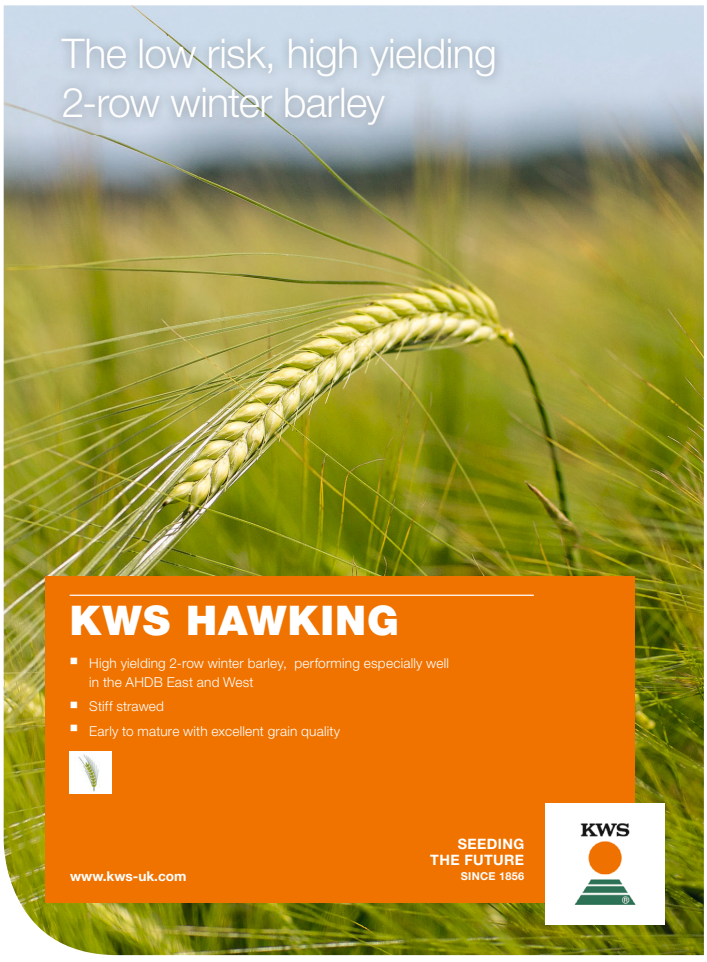
A vigorous type that gets out of the blocks and offers excellent standing ability in fact it's the only variety on the RL with a score of 1% for lodging without PGR.

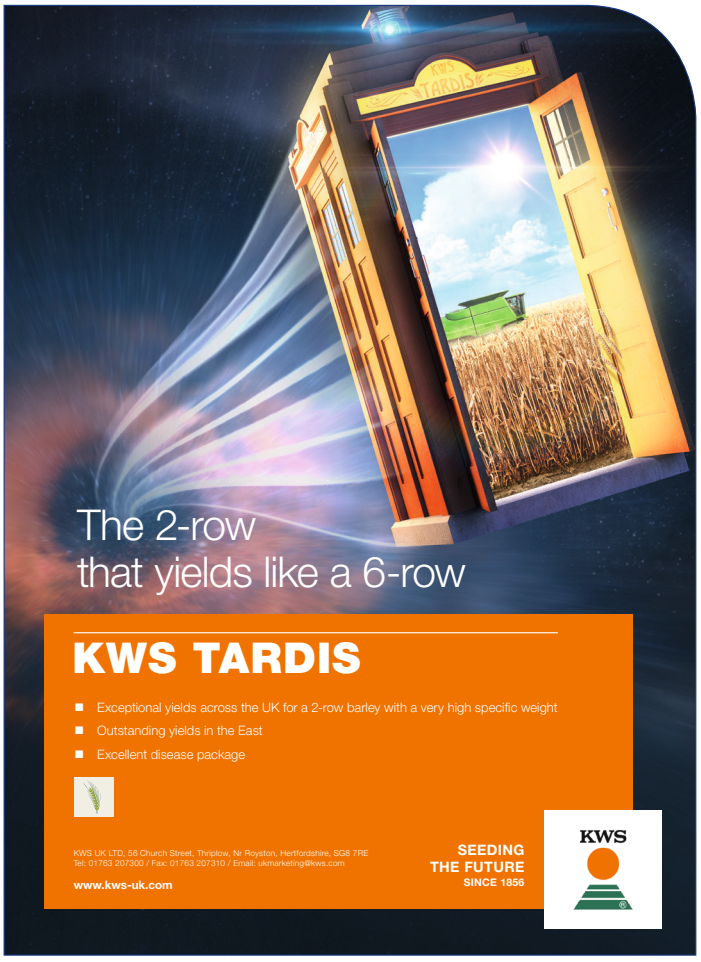
Specific wt kg/hl	69.1
Maturity	0
Untreated Yield %	83
Straw Height without PGR cm	92
Straw Height with PGR cm	86
Light Soils %	104
Heavy Soils %	110

Mildew	5
Brown Rust	6
Net Blotch	5
Rhyncho	7
Resistance to Lodging	8

In addition it has a really strong disease package for Rhyncho and net blotch. Due to C1 supply issues resulting from the challenges of the 2019 autumn season, seed supplies are very limited and as a result growers should place their orders quickly before the variety sells out.

(*coded line 11-12 was a bright early Cassia type)





KICK-OFF

What you need on your seed



KICK-OFF contains a generous mix of 8 key nutrients including Phosphites, Zinc, Manganese and 19 Amino Acids

KICK-OFF is the complete nutrient package that removes the need for stand-alone manganese treatments

KICK-OFF is proven to boost healthy growth, improve root biomass for stronger winter hardiness and drought tolerance

KICK-OFF can be used on seed crops including cereals and is compatible with all fungicide and insecticide seed treatments

For further details speak to your local GrainCo contact

fielder
first for growth

Barley Variety Comments

PLEASE ORDER YOUR BARLEY REQUIREMENTS EARLY TO CATCH PRODUCTION RUNS

* NEW VARIETY FROM ELSOM ACKERMAN *

BOLTON — California x KWS Cassia — TWO-ROW — UK Yield 106% — East 107% — North 105%

This new two-row variety from the **Elsom Ackerman** breeding programme is bred from two varieties much loved by growers in recent years for their grain quality, solid disease resistance levels and abundance of good quality straw. Therefore it's pleasing to see that **Bolton** has inherited all of these attributes along with the added bonus of very high yields which match the Hybrids.

Specific wt kg/hl	68.6	Mildew	6
Maturity	+1	Brown Rust	5
Untreated Yield %	83	Net Blotch	5
Straw Height without PGR cm	88	Rhyncho	5
Straw Height with PGR cm	84	Resistance to Lodging	8
Light Soils %	105		
Heavy Soils %	106		

The variety like its parents has shown itself to be a very consistent performer over three years of RL trials in very contrasting seasons where its yield has only varied by 1%. Equally happy on both light and heavy soils, in fact its yield on light soils is unrivalled among the two-rows. In addition the variety has super stiff straw with remarkable scores of 2% for lodging untreated and 1% treated with a PGR.

LIMITED AVAILABILITY

KWS CASSIA — Carat x Saffron — TWO-ROW — MARKET SHARE 5.7% — UK Yield 98% — East98% — North 98%

A medium- tall variety with very stiff straw and still the best specific weight of any barley variety on the recommended list. Consistent in all regions and all soil types and popular on mixed farms due to its quality and abundance of straw.

Specific wt kg/hl	71.4	Mildew	5
Maturity	+1	Brown Rust	7
Untreated Yield %	81	Net Blotch	5
Straw Height without PGR cm	94	Rhyncho	5
Straw Height with PGR cm	91	Resistance to Lodging	7
Light Soils %	98		
Heavy Soils %	98		

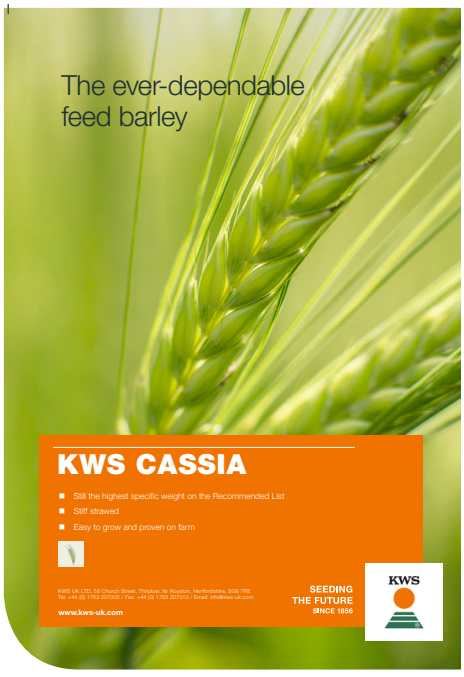
MARKET LEADER

KWS ORWELL — B105 x Salsa — TWO-ROW — MARKET SHARE 21.2% — UK Yield 102% — East 102% — North 101%

The UK's most popular two-row variety in the UK for the past three seasons and liked by growers for its stiff straw and consistency across all regions, soil types and seasons.

The variety is susceptible to mildew and growers could well be looking to try newer varieties that offer both an increase in yield and disease resistance.

Specific wt kg/hl	68.1	Mildew	3
Maturity	0	Brown Rust	7
Untreated Yield %	80	Net Blotch	5
Straw Height without PGR cm	89	Rhyncho	6
Straw Height with PGR cm	86	Resistance to Lodging	8
Light Soils %	101		
Heavy Soils %	103		







Grainco seed specialist Colin Jewell.

New Bolton delivers ton after ton after ton after ton after ton after ton



New for 2021. Bolton is an exciting, consistently high-yielding variety from Elsoms Ackermann Barley.

- **Hybrid yields** from a conventional variety
- **Consistently** yielding between seasons and regions
- Stiff straw, resulting in a **low risk** to lodging

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Winter Barley

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GrainCo

Hybrid Barley Variety Comments

PLEASE ORDER YOUR BARLEY REQUIREMENTS EARLY TO CATCH PRODUCTION RUNS

SYNGENTA KINGSBARN

SIX ROW FEED

Added to the AHDB RL last year, this very high yielding hybrid has stiff straw and one of the best specific weights available for a hybrid barley.

Suitable for all types and performs well even on marginal land. Sowing rate is approx 200 seeds/m² in good conditions.

Specific wt kg/hl	69.7
Maturity	0
Untreated Yield %	85
Straw Height without PGR cm	113
Straw Height with PGR cm	103
Light Soils %	105
Heavy Soils %	108

UK Yield 107% East 107% North 107%

Mildew	7
Brown Rust	5
Net Blotch	5
Rhyncho	6
Resistance to Lodging	7

SYNGENTA BAZOOKA

SIX ROW FEED

Currently the most popular hybrid with our customers with good grain quality.

A slightly taller variety than its sister variety **Kingsbarn** but with equally as stiff straw and a similar specific weight.

Specific wt kg/hl	69.2
Maturity	0
Untreated Yield %	85
Straw Height without PGR cm	117
Straw Height with PGR cm	110
Light Soils %	105
Heavy Soils %	107

UK Yield 106% East 106% North 105%

Mildew	5
Brown Rust	5
Net Blotch	6
Rhyncho	6
Resistance to Lodging	7

New Manganese Solution™

New Manganese Solution provides the germinating seedling with essential manganese during the early, critical establishment phase.

Many soils in the UK are manganese deficient

Although foliar application of manganese is effective at critical stages of growth, spraying cannot take care of the early stages of deficiency when there is insufficient foliage and/or poor spraying conditions.

Treating the seed with New Manganese Solution is the most effective way to protect the cereal crop from early deficiency problems. This unique seed treatment ensures manganese is immediately available to the germinating seed.



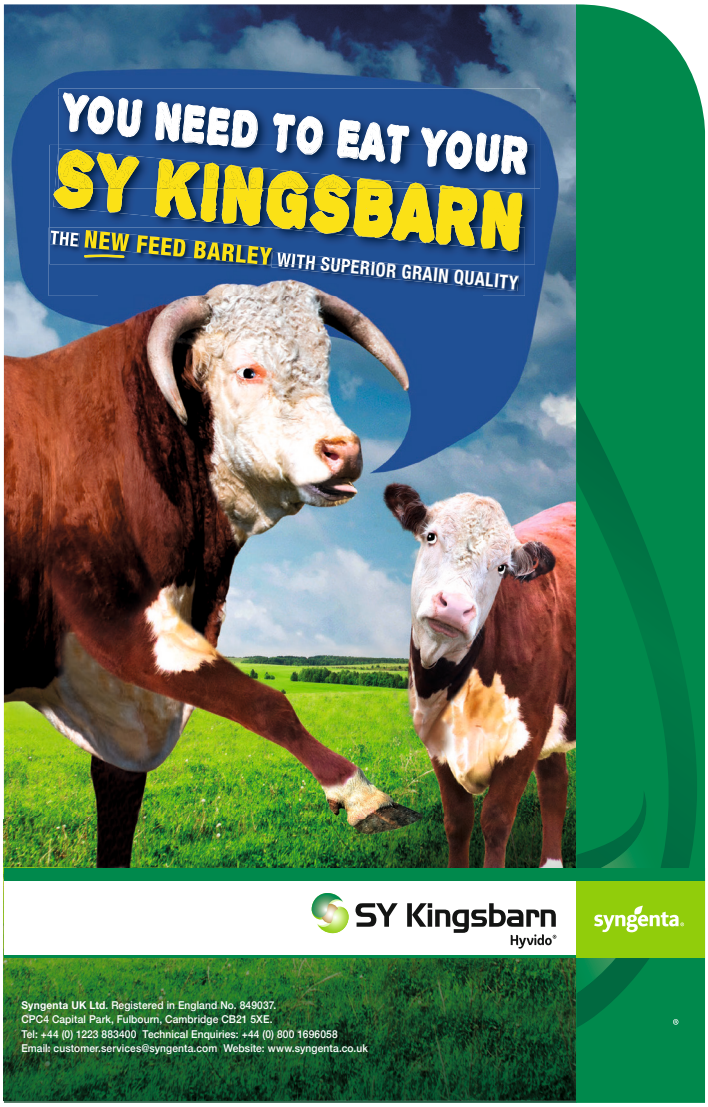
Characteristics

New Manganese Solution:-

- ✓ Contains manganese in a fast acting readily available form
- ✓ True Liquid Formulation
- ✓ Dust free treated seed
- ✓ Absorbed into seed coat
- ✓ Excellent compatibility with other seed treatments
- ✓ No effect on seed flow when drilling
- ✓ Manganese readily available to the seedling
- ✓ Improves germination & early plant growth

DE SANGOSSE

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Nabim Group 1 + 2

KWS ZYATT — Hereford x Quartz — UK Market Share 6.6% — UK Yield 98% — East 98% — North 97% — Untreated Yield 79%

The UK's highest yielding Group 1 bread making wheat comes as expected with excellent grain quality coupled with early maturity and medium height stiff straw.

The variety has is also believed to carry the Pch1 Rendezvous resistance gene to Eyespot which may go some way to explaining its excellent second wheat performance. Growers should note that the variety only scores a 5 for Yellow Rust and should taper their spraying regime accordingly to maximise the varieties potential.

1st Wheat %	98	OWBM Resistance	NO
2nd Wheat %	99	Mildew	7
Light Soils %	97	Yellow Rust	5
Heavy Soils %	99	Brown Rust	6
Specific wt kg/hl	77.8	Septoria Tritici	6.4
Maturity	0	Fusarium	6
Protein Content %	12.4	Eyespot	7
Hagberg Falling No.	267	Resistance to lodging (–PGR)	7
Height Without PGR cm	84	Resistance to lodging (+PGR)	8

RGT SKYFALL — C4148 x Hurricane — UK Market Share 9.3% — UK Yield 97% — East 97% — North 96% — Untreated Yield 74%

The biggest selling Group 1 variety offers growers excellent grain quality coupled with medium height, stiff straw and OWBM resistance.

The variety is however now rated as a 3 for Yellow Rust, therefore growers need to taper their spraying programmes accordingly. A fast developer it is best suited to the traditional mid-late September drilling slot and should the need arise can be safely drilled until the end of February.

1st Wheat %	97	OWBM Resistance	YES
2nd Wheat %	97	Mildew	6
Light Soils %	97	Yellow Rust	3
Heavy Soils %	97	Brown Rust	8
Specific wt kg/hl	78.4	Septoria Tritici	5.8
Maturity	0	Fusarium	7
Protein Content %	12.5	Eyespot	6
Hagberg Falling No.	279	Resistance to lodging (–PGR)	8
Height Without PGR cm	83	Resistance to lodging (+PGR)	8

EXCELLENT DISEASE RESISTANCE

KWS EXTASE — Boisseau x Sorehio — UK Market Share 11.5% — UK Yield 100% — East 100% — North 98% — Untreated Yield 93%

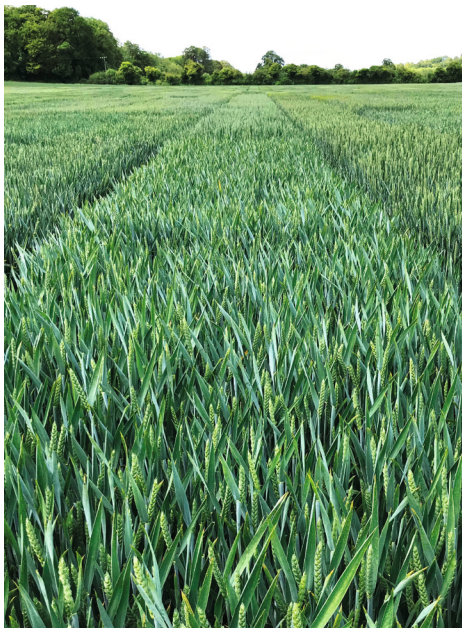
This variety may not have the yield of the perceived big hitters, however it makes up for it in spades by offering growers unrivalled levels of disease resistance.

These include scores of 8 for both Yellow Rust and Septoria tritici, consequently the variety has the highest untreated yield available. The variety is one of the earliest to ripen and coupled with its high specific weight offers grower's good levels of harvest security, an important consideration for northern growers.

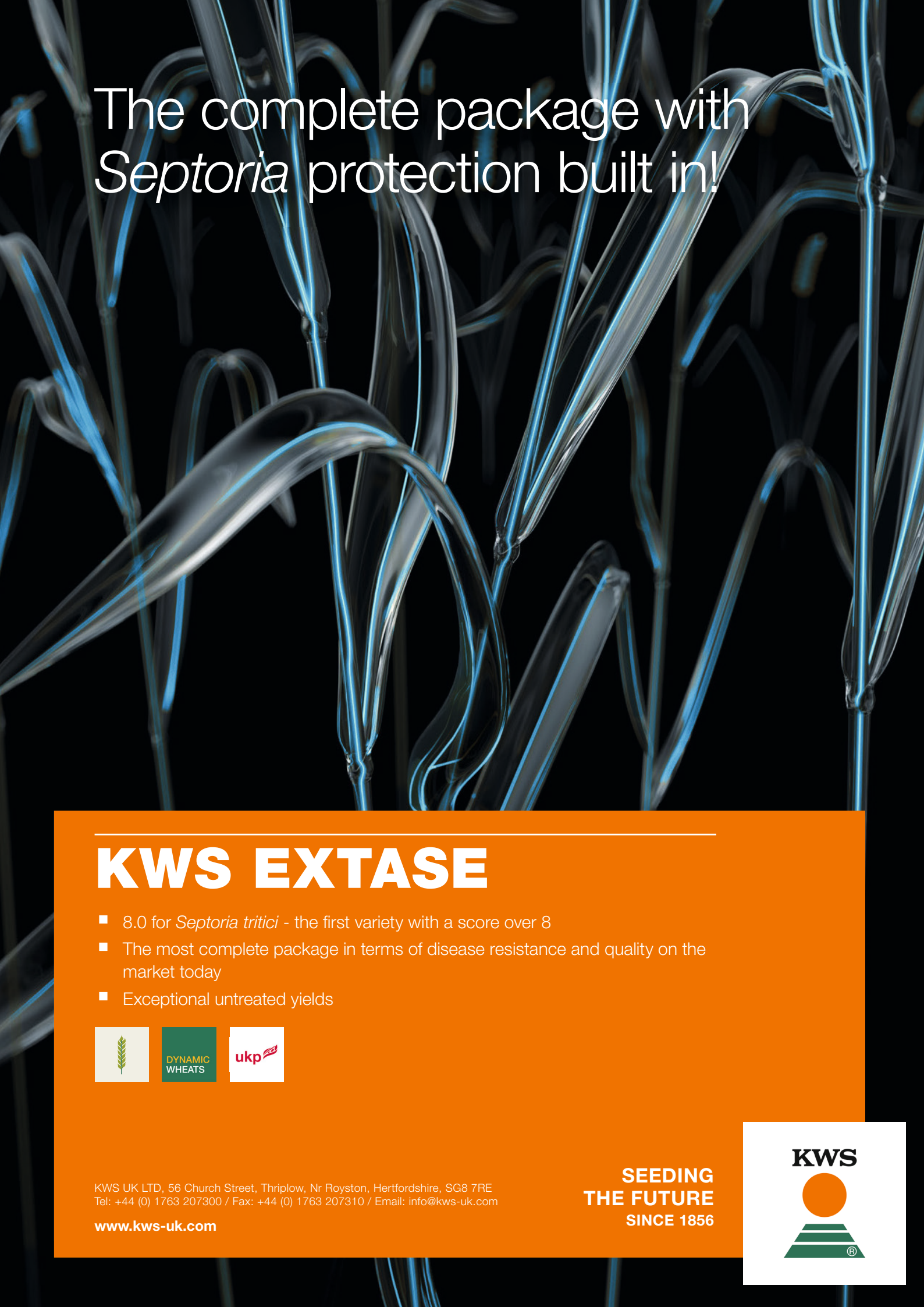
1st Wheat %	100	OWBM Resistance	NO
2nd Wheat %	101	Mildew	7
Light Soils %	101	Yellow Rust	8
Heavy Soils %	100	Brown Rust	7
Specific wt kg/hl	78.4	Septoria Tritici	8
Maturity	-1	Fusarium	6
Protein Content %	12.1	Eyespot	4
Hagberg Falling No.	299	Resistance to lodging (–PGR)	7
Height Without PGR cm	90	Resistance to lodging (+PGR)	8

A taller variety with reasonably stiff straw, its best suited to later drillings due to its vigorous autumn growth habit.









KWS EXTASE

- 8.0 for *Septoria tritici* - the first variety with a score over 8
- The most complete package in terms of disease resistance and quality on the market today
- Exceptional untreated yields

DYNAMIC WHEATS

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KWS

Nabim Group 3 – Biscuit Making Potential

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

KWS FIREFLY

Cougar x Rowen

UK Market Share 5.5% | UK Yield 101% | East 102% | North 98% | Untreated Yield 80%

KWS Firefly is an excellent choice for growers looking for a high yielding, high tillering first wheat that can offer a combination of exceptionally stiff straw (Twin 8's) and a good combination of disease resistance ratings. These include both seedling and adult resistance to yellow rust and an impressive 6.8 rating for septoria tritici.

KWS Firefly can be drilled relatively early making it an ideal choice for those growers keen to make an early start and to complete the package the variety offers growers Orange Wheat Blossom Midge resistance.

1st Wheat %	101
2nd Wheat %	101
Light Soils %	101
Heavy Soils %	103
Specific wt kg/hl	75.6
Maturity	+1
Protein Content %	12
Hagberg Falling No.	243
Height Without PGR cm	83

OWBM Resistance	NO
Mildew	5
Yellow Rust	7
Brown Rust	5
Septoria Tritici	6.8
Fusarium	5
Eyespot	4
Resistance to lodging (–PGR)	8
Resistance to lodging (+PGR)	8







Grainco's Mike Temple inspecting our KWS Firefly crop.

Nabim Group 4 – Soft Wheats

HIGHEST YIELDING VARIETY

LG SKYSCRAPER

Cassius x Santiago

UK Market Share 8.6% | UK Yield 105% | East 105% | North 103% | Untreated Yield 81%

The joint highest yielding wheat variety on the RL in both 1st wheat and 2nd wheat situations. In addition its performances on both light and heavy land are almost unrivalled. It's a taller variety which responds well to PGR treatments and is best suited to the main drilling window. The variety offers early maturity, good grain characteristics and a solid disease resistance profile including OWBM resistance. You can well understand why it sold out in 2020 increasing its market share by nearly 50% and is certain to be in high demand once again.

1st Wheat %	104	OWBM Resistance	YES
2nd Wheat %	104	Mildew	7
Light Soils %	104	Yellow Rust	8
Heavy Soils %	105	Brown Rust	6
Specific wt kg/hl	76.8	Septoria Tritici	5.1
Maturity	0	Fusarium	7
Protein Content %	11.6	Eyespot	4
Hagberg Falling No.	214	Resistance to lodging (–PGR)	7
Height Without PGR cm	92	Resistance to lodging (+PGR)	7

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

RGT SAKI

Cougar x Santiago

UK Market Share 4.2% | UK Yield 104% | East 104% | North 102% | Untreated Yield 85%

The joint highest yielding wheat variety in 2020 and also the joint highest yielding variety in both 1st wheat and 2nd wheat situations, in addition the variety is equally at home on both light and heavy soils.

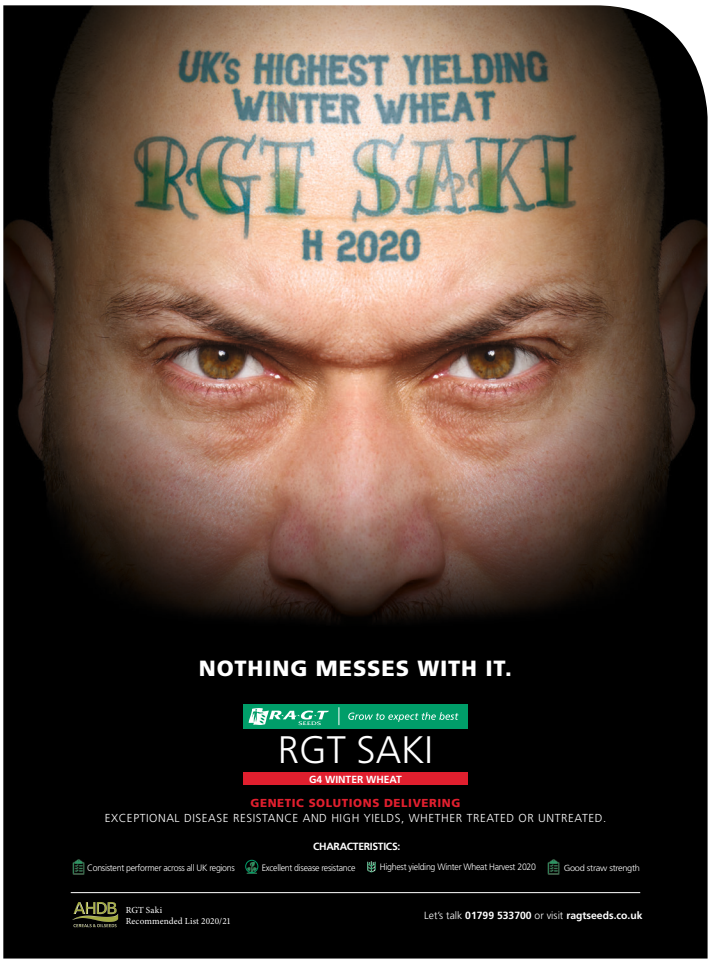
A very strong disease resistance package including seedling and adult resistance to yellow rust and a score of 6.5 for Septoria contribute to giving this variety one of the highest untreated yields available, in addition it comes with built in resistance to OWBM.

Medium tall with stiff straw, the variety can be drilled relatively early giving growers the opportunity to bring forward the varieties ripening dates.

1st Wheat %	104	OWBM Resistance	YES
2nd Wheat %	104	Mildew	5
Light Soils %	103	Yellow Rust	8
Heavy Soils %	103	Brown Rust	7
Specific wt kg/hl	75.9	Septoria Tritici	6.5
Maturity	+3	Fusarium	6
Protein Content %	11.6	Eyespot	5
Hagberg Falling No.	227	Resistance to lodging (–PGR)	7
Height Without PGR cm	88	Resistance to lodging (+PGR)	7



Grainco's Mike Temple pictured in our crop of RGT Saki.



LG Skyscraper Remains the Highest Yielding Recommened Wheat for the Third Year Running



Ron Granger, Arable Technical Manager, Limagrain

Soft wheat LG Skyscraper remains the highest yielding wheat variety on the AHDB 2021/22 Recommended List for the third year running, yielding 105% over control.

LG Skyscraper has joined an elite group of varieties that have topped the Recommended List for three successive seasons. Only three other varieties (KWS Santiago, Oakley CL and Glasgow) have achieved this feat since 2004, showing how impressive this achievement is.

It is the highest yielding variety in the east and very competitive for yield in both the west and north, where it is comparable with the best varieties available, which demonstrates LG Skyscraper's versatility across differing regions and soil types.

"Whilst several varieties have joined the Recommended List since LG Skyscraper's recommendation in 2018, the variety continues to dominate and demonstrate its ability to achieve the very highest yields across a wide range of situations and environments," says Tom Barker, Limagrain's cereals and pulses product manager.

"The variety does this as it develops a good foundation in the early season, which it then converts into a consistently top yield of sound bold grain."

"It is a moderately high tillering variety that moves early in the spring, similar to Evolution and is relatively early to mature which is useful, particularly for growers in the North."

Agronomically, LG Skyscraper has held up well over the last three years. "Its rating for yellow rust has held fast when many around have fallen, and its brown rust is still an acceptable 6. It also offers Orange Wheat Blossom Midge (OWBM) resistance."

LG Skyscraper's excellent performance across the UK shows once again to dispel any myths surrounding soft wheats being lower yielding than hard wheats, points out Limagrain's arable technical manager, Ron Granger.

"Not only has the variety held onto its yield, but its excellent quality attributes remain intact, offering a large grain with a specific weight of 76.8 kg/hl and a Hagberg of 214."

"The additional benefit of distilling, and the fact that small premiums are being offered for its use in grists by other manufacturers, is a very valuable attribute. Of course, if you're growing feed wheat, it is the highest yielding wheat available, so it's a win, win situation," he adds.

"For those looking to drill their wheat later, it is worth noting that in Limagrain trials, LG Skyscraper was the highest performing variety in the late drilled slot, for the past three seasons."

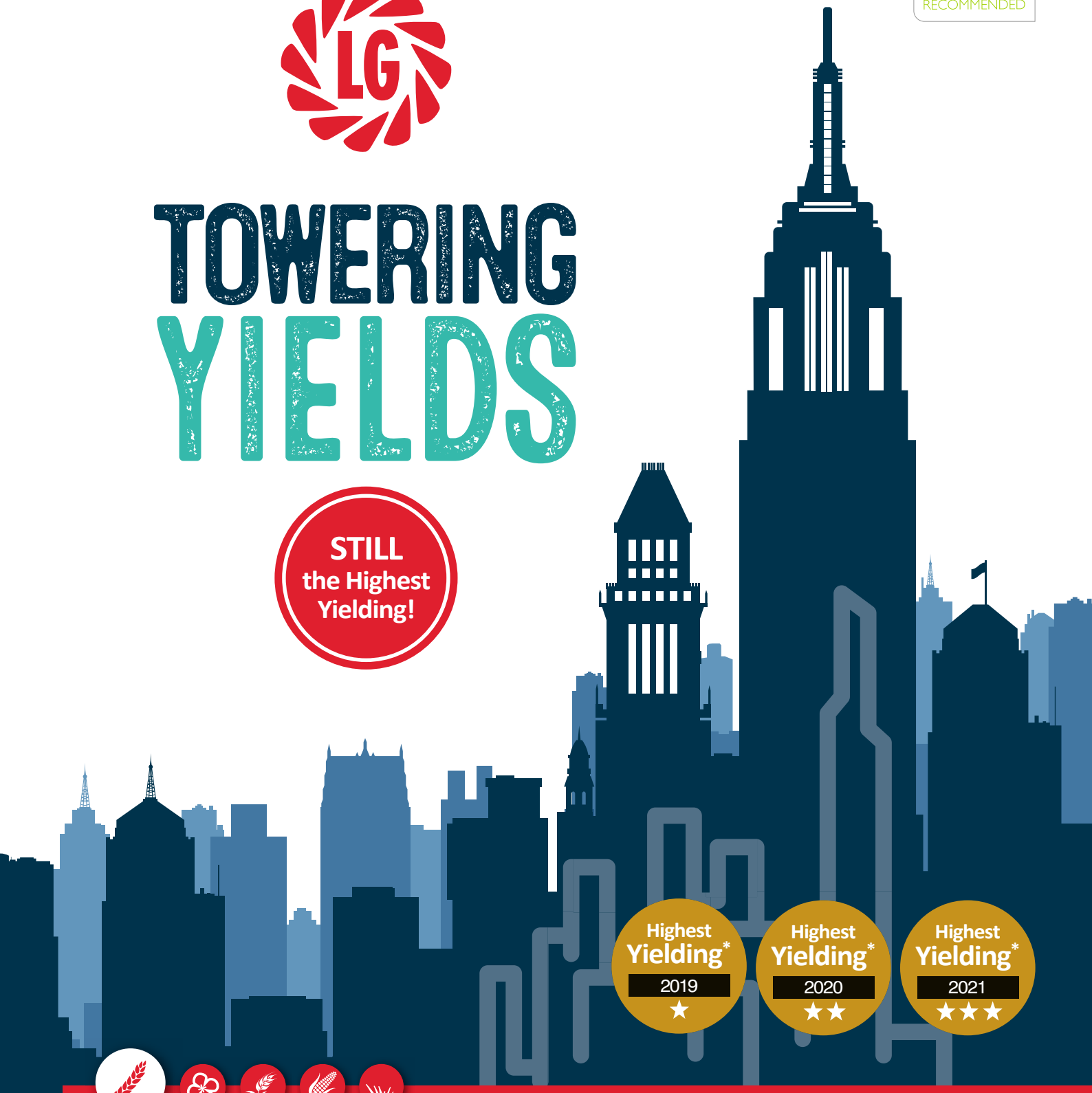
"LG Skyscraper is also one of the highest yielding wheats available in a second wheat situation, and has suitable attributes and competitiveness for the blackgrass situation."

"LG Skyscraper can be drilled comfortably up until the end of January and even later into February further North, but seed rates will need to be adjusted accordingly."

AHDB RECOMMENDED

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Highest Yielding* 2020 ★★

Highest Yielding* 2021 ★★★

LG SKYSCRAPER

Highest Yielding Recommended Winter Wheat

@LGSeedsUK

lgseeds.co.uk/lg-skyscraper

* On AHDB Recommended Lists: 2019/20, 2020/21 & 2021/22

Tel: 01472 371471
lgseeds.co.uk enquiries@limagrain.co.uk

Limagrain

Group 4 – Hard Wheats

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

SENOVA COSTELLO — Timaru x W151

UK Market Share 3.3% | UK Yield 99% | East 99% | North 99% | Untreated Yield 80%

Despite not initially being perceived as a high yielder, this variety continues to be extremely popular with growers in the north of England and when you see what else the variety brings to the table you can understand why.

It's short with super stiff straw, exceptional grain quality including a specific weight unrivalled by any other variety on the RL at 80.8, a valuable asset that shouldn't be forgotten about in the challenging seasons we have seen in recent years.

1st Wheat %	100	OWBM Resistance	NO
2nd Wheat %	99	Mildew	8
Light Soils %	98	Yellow Rust	9
Heavy Soils %	99	Brown Rust	5
Specific wt kg/hl	80.8	Septoria Tritici	6
Maturity	+2	Fusarium	7
Protein Content %	12.1	Eyespot	5
Hagberg Falling No.	326	Resistance to lodging (–PGR)	7
Height Without PGR cm	82	Resistance to lodging (+PGR)	8

In addition despite the continued threat of new races of Yellow rust evolving over recent years **Costello** still maintains its seedling and adult resistance to Yellow Rust with a score of 9, insuring it has one of the most robust disease resistance profiles available.

MARKET LEADER

SYNGENTA GLEAM — Kielder x Hereford



UK Market Share 12% | UK Yield 103% | East 103% | North 102% | Untreated Yield 81%

2020 saw this variety retain its position as the UK's most widely grown winter wheat for the 2nd year running, a remarkable feat considering the wide range of varieties growers have available to them.

The varieties flexibility has played a huge part in its success, drill it early, drill it late, 1st wheat, 2nd wheat, light soils, heavy soils no problem. It's a medium height variety with stiff straw, good grain characteristics and importantly for northern grower's early maturity.

1st Wheat %	103	OWBM Resistance	YES
2nd Wheat %	103	Mildew	6
Light Soils %	102	Yellow Rust	5
Heavy Soils %	103	Brown Rust	6
Specific wt kg/hl	76.3	Septoria Tritici	6.1
Maturity	0	Fusarium	6
Protein Content %	11.5	Eyespot	4
Hagberg Falling No.	217	Resistance to lodging (–PGR)	7
Height Without PGR cm	87	Resistance to lodging (+PGR)	7

Growers should note that the varieties YR score is now rated as a 5 following the AHDB adjustment to the way it calculates its YR ratings. Overall the varieties Untreated Yield however remains one of the best of the Group 4 hards and consequently the variety will remain very popular in 2021.

EXCELLENT DISEASE RESISTANCE

SYNGENTA GRAHAM — Primo x Expert

UK Market Share 8.1% | UK Yield 102% | East 101% | North 101% | Untreated Yield 87%

Ideally suited to the first wheat slot, this medium tall, stiff strawed variety offers growers consistently high yields coupled with good grain quality. In addition the variety has excellent levels of disease resistance including scores of 8 for Yellow Rust and 6.8 for Septoria trici, as a result it offers growers one of the best untreated yields available.

Two additional benefits for northern growers are the varieties ability to be drilled early and its early maturity at harvest.

1st Wheat %	102	OWBM Resistance	NO
2nd Wheat %	101	Mildew	7
Light Soils %	102	Yellow Rust	8
Heavy Soils %	102	Brown Rust	5
Specific wt kg/hl	76.8	Septoria Tritici	6.8
Maturity	-1	Fusarium	7
Protein Content %	11.5	Eyespot	3
Hagberg Falling No.	279	Resistance to lodging (–PGR)	7
Height Without PGR cm	88	Resistance to lodging (+PGR)	8

EARLIEST MATURITY OF ANY RL VARIETY

KWS PARKIN — Costello x Reflection

UK Market Share 1.7% | UK Yield 101% | East 101% | North 100% | Untreated Yield 79%

Initially identified as a **Grafton** replacement, this early maturing variety has very short stiff straw- 78.6cm - and is ideal for drilling relatively early on fertile soils. It cannot however be drilled quite as early as **Grafton** due to its more vigorous nature but trials show it perform best when sown before the 25th September.

The variety is early to mature and unlike **Grafton** there is no evidence of shy tillering, therefore if needed the variety could take higher seed rates. The varieties Yellow Rust scores have remained strong, due in no small part to one of its parents being **Costello**.

1st Wheat %	101	OWBM Resistance	NO
2nd Wheat %	99	Mildew	5
Light Soils %	100	Yellow Rust	9
Heavy Soils %	102	Brown Rust	4
Specific wt kg/hl	76.2	Septoria Tritici	5.5
Maturity	-1	Fusarium	6
Protein Content %	11.5	Eyespot	4
Hagberg Falling No.	266	Resistance to lodging (–PGR)	8
Height Without PGR cm	79	Resistance to lodging (+PGR)	8

Growers looking to drill early are advised to order early to catch production runs.



GLEAM adapts to all soils, all regions, all seasons.

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Group 4 – Hard Wheats

NEW VARIETY *EUROPE'S FIRST BYDV RESISTANT VARIETY*

RGT WOLVERINE

09TC2654 x Panorama x Coronation

UK Yield 102% East 101% North 103% Untreated Yield 72%

1st Wheat %	102
2nd Wheat %	101
Light Soils %	99
Heavy Soils %	102
Specific wt kg/hl	75.9
Maturity	+2
Protein Content %	11.2
Hagberg Falling No.	274
Height Without PGR cm	86

OWBM Resistance	NO
Mildew	5
Yellow Rust	5
Brown Rust	8
Septoria Tritici	5.3
Fusarium	6
Eyespot	5
Resistance to lodging (–PGR)	7
Resistance to lodging (+PGR)	8

Europe's first BYDV-resistant wheat is a major breakthrough in European plant breeding, offering farmers an alternative to chemical control.

The BYDV virus spread by Aphids is the most economically important virus in UK cereals and the scale of yield loss can vary significantly dependent on Aphid activity. Susceptible lines can be vulnerable to yield losses of up to 18%.

In high pressure situations where susceptible lines are severely affected with BYDV, trace symptoms can occasionally be observed.

At 102% of controls the variety is only 1 point behind the UK's most popular variety **Gleam** and produces these yields whether BYDV is present or not.

For those growers looking to drill before the 15th September **Wolverine** is an ideal variety due to its slow rate of development in the autumn. **RGT Wolverine** is a medium-high tilling variety, with medium height stiff straw and a semi-prostrate growth habit.

Following the poor weather conditions seen in recent years the desire is to drill earlier and earlier which in due course put the crop under more pressure from aphids. With it's built in BYDV resistance this variety offers growers peace of mind and allows growers to concentrate on sowing at a very busy time of the year.

Wolverine is subject to the BIPO Royalty Area Collection Agreement;

BIPO SCHEME EXPLAINED

The BIPO (Breeder's Intellectual Property Office) scheme is an alternative royalty collection scheme to the standard BSPB method. Here the grower will pay the royalty element of their seed directly to BIPO rather than the price being included in the certified seed purchased. It is also on an area basis rather than a tonnage basis. It is a simple process where growers register by going to:

www.bipo.org.uk

and scroll over RAC Grower Agreement before selecting Create New RAC Grower Agreement.

Once submitted you will receive a grower number and then you will just need to quote this number to your **Grainco** contact when ordering any varieties on this scheme such as **Wolverine**.





BAYER

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Your seed treatment *choice matters.*

The start of a new growing season is your opportunity to control the hidden diseases which can impact your harvest.

Redigo Pro provides the **broadest protection** from **all major seed- & soil-borne diseases** in your barley & wheat crops and can also help **reduce ergot contamination**[*1].

Secure the best protection from day one by specifying Redigo Pro when ordering your seed this season.

Discover more about the hidden diseases that could be lurking in your crop at ***cropscience.bayer.co.uk/hiddendiseases***

Bayer

Ergot is the third most common cause of load rejection upon sale for malting barley[*2]

*[*1]Based on CRD-approved label recommendations on 6th June 2018. All details correct at time of going to press.*
*[*2]MAGB annual survey 2007-2016, http://www.ukmalt.com/annual-survey-rejections-barley-uk-malting-sites*

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Seed Treatment Summary

	BARLEY + WHEAT + OATS	BARLEY + WHEAT	BARLEY + WHEAT	BARLEY + WHEAT	ALL CEREALS	ALL CEREALS	BARLEY + WHEAT
DISEASE	**REDIGO PRO** Single Purpose	**RACONA i-MIX** Single Purpose	**VIBRANCE DUO**	**LATITUDE**	**KICK OFF**	**MANGANESE**	**SIGNAL 300**
Fusarium	✓	✓	✓				
Loose Smut	✓	✓	✓				
Bunt (seed borne)	✓	✓	✓				
Seedling Blight	✓	✓					
Blue Mould	✓						
Bunt (soil borne)	✓	✓	✓				
Take-all				✓			
Leaf Stripe	✓~	✓					
Seed Borne Net Botch	✓*						
Ergot #	✓	✓					
PESTS							
Wireworm							✓
Wheat Bulb Fly							✓
Frit Fly							✓~
NUTRITION							
Early Manganese Deficiency					✓	✓	
Improved Establishment/Growth			✓		✓		

Reduction in germination of treated particles / * Not a label claim, based on trials data and field experince / ~ Partial control

Latitude
Always co-applied with a single purpose dressing such as **Redigo Pro**. Enables earlier drilling of 2nd and 3rd white crops where take-all risk is high.

Kick Off
A plant growth stimulant suitable for all cereals to aid establishment and root growth containing generous levels of phosphite, zinc and manganese plus phosphate, nitrogen, sulphur, potassium and 19 important amino acids.

Manganese
Helps to control manganese deficiency in cereals

Vibrance Duo - Wheat
Improves speed of establishment and promotes improved root development.

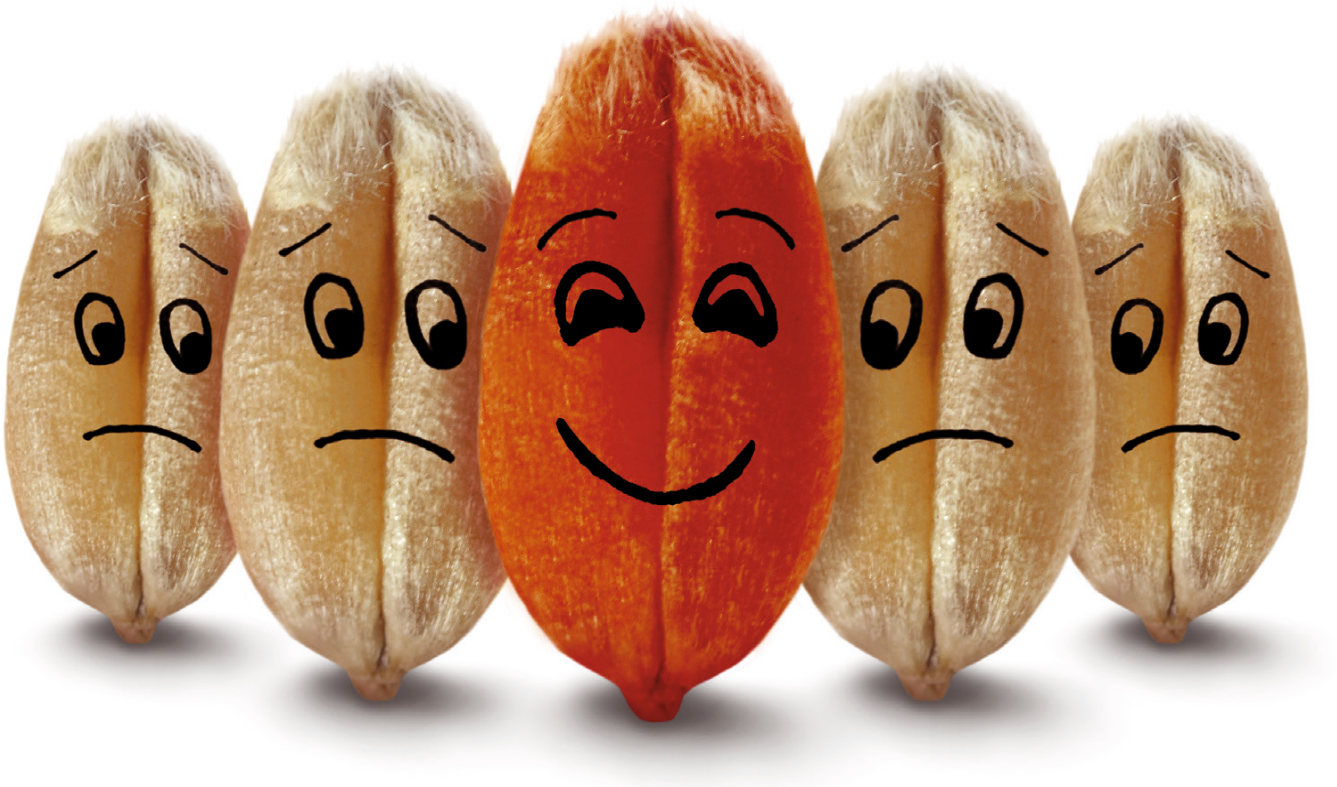
Perticulary useful on lighter soils, later sowings and 2nd white crops where an improved root mass will help plants scavenge better for water and nutrients.

Vibrance Duo - Barley
Provides the same benefits to the wheat product, however on barleys it is co-applied with **Rancona i-Mix** to increases its effectivness against loose smut.

Signal
An insecticide seed treatment for the reduction of wheat bulb fly and wireworm in autumn/winter sown barley and wheat crops. Limited evidence suggest some control of Frit Fly.

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ACACIA

Highest yielding conventional variety with performance comparable to hybrids.

Excellent performance across all areas of the UK.



KEY STRENGTHS

- Highest yielding conventional variety
- Highly vigorous variety
- Robust plant type with good straw strength
- Good disease resistance
- Proven on farm and trial performance across a number of years

AHDB UK Recommended

GROSS OUTPUT

UK	**107**
East / West	**107**
North	**104**

Oil Content (@ 9% Moisture)	**45.7**
Plant Height (cm)	**150**

AGRONOMIC PROFILE

Earliness of Flowering	**6**
Earliness of Maturity	**5**
Stem Stiffness	**9**
Resistance to Lodging	**8**
Autumn Vigour*	**6**
Spring Vigour*	**6**
Stem Canker	**5**
Light Leaf Spot	**6**

Data from the AHDB Oilseed Rape Recommended List 2021/22.

On the 1-9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).

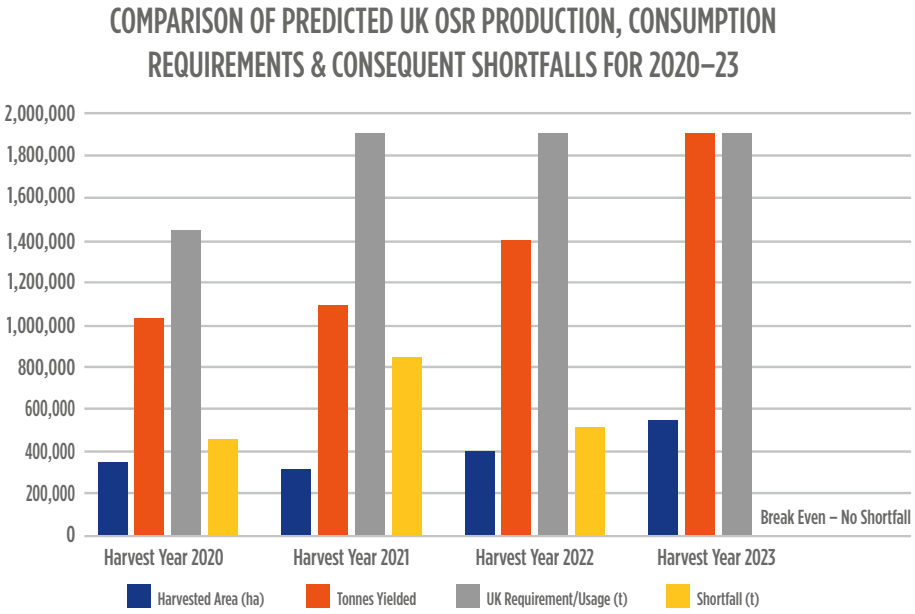
Agronomic features marked with * are breeders perspective.

Contact us: GrainCo Limited, Tyne Dock, South Shields, Tyne & Wear NE34 9PL
Tel: 0191 428 7700 **Fax:** 0191 428 5202 **www.grainco.co.uk**

Profiting from OSR



Dave Young, GrainCo Seed Specialist



Despite the recent challenges of growing Oilseed rape, we are starting to see farmers consider including oilseed rape in their rotation again. Why? The short answer is because of the significant profit opportunities it can offer to growers.

To understand why the profit opportunity is so persuasive, it is important to understand the current global and domestic trends in the supply and demand for oilseed rape.

In the UK and EU, there is a huge shortfall in the supply of OSR with a corresponding bullish pressure on market prices. Demand from crushers far exceeds the available supply and this shortfall situation is likely to continue for the next couple of years at least.

To see the extent of this shortfall in supply versus demand, look at the graph above (calculated assuming an average annual yield of 3.5 tonnes per hectare).

Firmer Market Prices & High Gross Margins

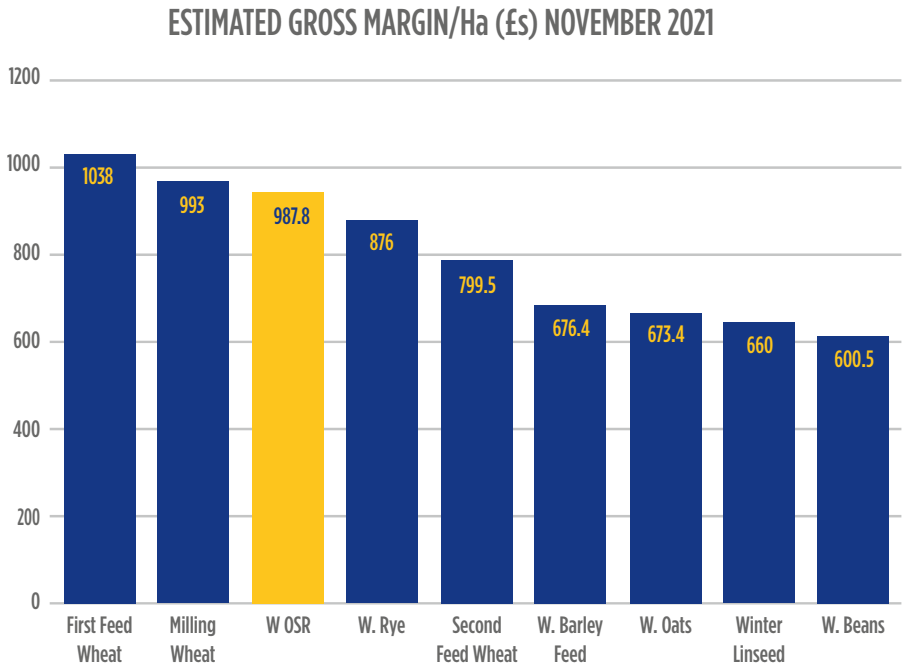
The market has responded to this situation. Market prices for OSR have already leapt, at one stage in March, reaching £428 per tonne ex farm – and that is before the inclusion of additional quality bonuses! No wonder growers are considering drilling OSR again.

Furthermore, gross margins for the crop also make it the most profitable combinable crop to grow after first feed and milling wheat, as you can see from the graph of comparative gross margins below.

So we can see why there is scope to make such a significant profit from your OSR crop. Remember, by growing oilseed rape, British farmers are growing a commodity for our home market, for which, unlike some other crops, there is a huge and continuing market demand.

Which OSR Varieties?

If you are considering drilling oilseed rape this autumn, then it is prudent to



choose a variety that will give you the best chance of producing a viable and valuable crop.

If you prefer hybrid varieties, I would recommend you consider **Aurelia**, which is now the UK's biggest selling OSR variety, accounting for an incredible 11% of all OSR hectares drilled in the UK (including both hybrid and conventional) and 16% of the total UK's hybrid OSR area.

Aurelia has become the UK's No.1 selling variety for a combination of reasons. Proven on farm across all regions, trait loaded **Aurelia** offers growers high gross output, high oil content (45.3%), high autumn and spring vigour, plus robust disease resistance.

The key traits that have made it such a huge success include:

resistance to pod shatter and TuYV, gene-specific resistance to phoma stem canker and the highest resistance rating to light leaf spot on the AHDB Recommended List.

Aurelia's excellent vigour is a very crucial feature, as this helps it to grow away from pest attack and establish successfully.

If you are considering conventionals, then the optimum variety is **Acacia**, which is the highest yielding conventional variety on the latest AHDB Recommended List and offers an outstanding performance that is comparable with hybrids.

Acacia is in its second year of Recommendation and is the top conventional for the UK on the AHDB list. It has consistent, proven performance on farm, showing strong autumn and spring vigour, solid disease resistance and short, stiff straw combined with a high oil content (45.7%).

There are of course other varieties available, including **Clubroot** and **Clearfield** options.

Choosing the right variety, whether "00" or specialist, is a key element of stacking the odds firmly in your favour and will go a long way to helping you establish and manage a successful crop that could achieve a really significant financial return.

As always if you have any questions please feel free to speak to your Grainco contact.

AURELIA LG WINTER OILSEED RAPE

AHDB RECOMMENDED

AGRONOMIC PROFILE	
Stem Canker	7
Light Leaf Spot	7
Earliness of Maturity	5
Earliness of Flowering	7
Stem Stiffness	8
Lodging Resistance	8
Autumn Vigour*	9
Spring Vigour*	8

GROSS OUTPUT	
UK	107%
East/West	107%
North	106%

Data from the AHDB Oilseed Rape Recommended List 2021/22.

One the 1–9 scales, high figures indicate that a variety shows the character to a high degree (eg figh resistance)

Agronomic features market with * are breeders perspective.

ACACIA LG WINTER OILSEED RAPE

AHDB RECOMMENDED

AGRONOMIC PROFILE	
Stem Canker	5
Light Leaf Spot	6
Earliness of Maturity	5
Earliness of Flowering	6
Stem Stiffness	9
Lodging Resistance	8
Autumn Vigour*	6
Spring Vigour*	6

GROSS OUTPUT	
UK	107%
East/West	107%
North	106%

Data from the AHDB Oilseed Rape Recommended List 2021/22.

One the 1–9 scales, high figures indicate that a variety shows the character to a high degree (eg figh resistance)

Agronomic features market with * are breeders perspective.



AURELIA

Fully loaded hybrid with a proven performance across all regions, high autumn vigour and robust disease resistance. Britain's biggest selling OSR variety.



KEY STRENGTHS

- Exceptional autumn and spring vigour
- Solid disease resistance – best LLS available
- Highest yielding variety in the north
- Fully loaded hybrid with RLM7, POSH, TuYV
- Proven on farm and trial performance across a number of years

AHDB UK Recommended

Resistance protects against the symptoms of TuYV: a virus transmitted by aphids which can cause up to 30% yield drop and 3% loss of oils.

Has gene-specific resistance to phoma stem canker and is included in combination with quantitative resistance in all our fully loaded hybrids.

Resistance helps protect against untimely seed losses around harvest caused by weather or combine passing through the crop.

GROSS OUTPUT

UK	**107**
East / West	**107**
North	**106**

Oil Content (@ 9% Moisture)	**45.3**
Plant Height (cm)	**155**

AGRONOMIC PROFILE

Earliness of Flowering	**7**
Earliness of Maturity	**5**
Stem Stiffness	**8**
Resistance to Lodging	**8**
Autumn Vigour*	**9**
Spring Vigour*	**8**
Stem Canker	**7**
Light Leaf Spot	**7**

Data from the AHDB Oilseed Rape Recommended List 2021/22.

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.

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*40% reduction in nitram production emissions from a 2010 baseline.

New Winter Bean Varieties Show Promise



Tom Yewbrey, Sales Manager, **Senova UK**

Senova has two new winter beans, Vincent and Norton, on the revamped PGRO Descriptive Lists for 2021.

Both are lining up with established Senova varieties such as Vespa, Bumble and Honey, bringing yield and seed size improvements over existing choices as well as agronomic strengths.

For the time being, **Vespa** will remain the company's main winter bean variety in the market, offering very high yields of 109 and having the joint best standing ability on the list, with a score of 8.

Now having a 10% yield advantage over **Tundra**, **Vespa** was first listed in 2018 and became fully recommended last year. In that time, it has met both market and farmer requirements, showing good performance across different growing seasons.

The two newcomers were both bred by **IBERS Aberystwyth**. **Vincent** is the highest yielding winter bean on the latest list on 110, while **Norton**, which has a yield of 107, is an earlier variety.

Their arrival strengthens **Senova's** winter bean portfolio and demonstrates the progress that is being made in bean breeding.

The company's existing choice, **Vespa**, offers the bigger seed size and pale hilum favoured by the human consumption market. Slightly taller than **Tundra** at 126cm, it is similar to it in terms of maturity.

A protein content of 26.1% puts **Vespa** on a par with other winter bean varieties and makes it suitable for both the export market and for contracts that reward protein.

According to Tom Yewbrey at **Senova**, the new PGRO Descriptive Lists allow a wider range of varieties to be included, but independent testing continues to be behind the assessment of varieties.

WINTER BEANS – PGRO Descriptive List 2021

The control for yield is the mean of 4 & 5 year varieties (4.54t/ha). Yield differences of less than 9.9% are not statistically different.

	Agronomic characters						Seed characters			
	UK Agent see appendix	Yield as % Control	Flower colour	Earliness of maturity (1-9)	Straw length (cm)	Standing ability at harvest (1-9)	Thousand seed weight (g) (@15%mc)	Protein content (% dry)	No. Years in matrix	Year first listed
Pale Hilum										
Vincent	Sen	110	C	4	129	7	849	28.1	3	**21**
Vespa	Sen	109	C	5	126	8	686	26.1	5	18
Norton	Sen	107	C	7	125	7	726	26.2	3	**21**
Bumble	Sen	104	C	4	132	6	703	25.6	5	16
Tundra	LUK	99	C	6	119	7	650	26.0	5	14
Wizard	Sen	96	C	6	122	7	682	26.4	5	03
Honey	Sen	92	C	7	116	8	699	25.9	5	12

(1-9) A high rating indicates that the variety shows the character to a high degree. The scales of characters of winter beans do not necessarily correspond with those for spring beans. Wizard has resistance to leaf & pod spot (Ascochyta fabae). **Varieties Vincent & Norton will be added subject to confirmed NL status.** © PGRO 2020 19.11.20

Oat Appeal

Market-leading winter oat variety Mascani continues to be the oat variety of choice for its superior grain quality and performance in the mill, with seed stocks expected to sell rapidly ahead of this autumn.

With demand for human consumption oats still growing for both established and new, innovative markets, **Mascani** now commands as much as 75% of winter oat plantings in England and remains the frontrunner for autumn 2021 drillings.

Another variety to be bred by **IBERS**, **Mascani** has reached this dominance by being both the miller's favourite and a reliable performer on-farm.

Described as rock solid by Tom Yewbrey of **Senova**, it has benefited from the increase in UK-wide oat plantings and the development work being done by researchers and food manufacturers into alternative oat markets.

While spring oats have risen in popularity as farmers have used spring cropping to help with weed control and deal with rotational issues, their inconsistent performance in the mill and variable yield results on farm have been issues, he acknowledges.

"This situation has only served to highlight **Mascani's** consistency and its dependable reputation – no wonder it is still in such high demand."

Agronomically, **Mascani** has a strong disease resistance package – including the best mildew score - and good straw strength, while its early maturity helps with harvest workload planning.

"There have been other winter oat varieties added to the Recommended List in the last few years," ends Tom. "For various reasons, none of them have suited the end market or been as reliable on farm as **Mascani**.

"However, growers should keep an eye out for **Cromwell**, a new winter oat variety currently coming through the testing system."



Winter Oats 2021/22

AHDB RECOMMENDED

	RGT Southwark	RGT Lineout	Dalguise	Mascani	Gerald	Peloton	Fusion $	Grafton	Average LSD (5%)
Variety type	Husked varieties					Naked varieties			
Scope of recommendation	UK C	UK	UK C	UK C	UK	UK	UK	UK	
UK yield (% treated control)									
Fungicide-treated (8.7 t/ha)	104	100	99	97	96	76	72	72	3.6
Grain quality									
Kernel content (%)	73.3	73.6	73.3	76.6	71.1	-	-	-	1.5
Specific weight (kg/hl)	53.7	51.9	54.0	53.1	52.3	62.2	60.9	63.4	1.4
Screenings (% through 2.0 mm)	6.0	6.7	3.9	1.8	4.8	27.8	32.0	12.9	3.0
Agronomic features									
Resistance to lodging (1–9)	5	6	4	6	6	6	8	7	1.3
Straw length (cm)	122	114	121	117	119	114	79	120	4.5
Ripening (days +/- Mascani, -ve = earlier)	-1	-1	-1	0	+2	+1	+3	-1	1.2
Disease resistance									
Mildew (1–9)	3	3	4	6	4	7	4	3	1.3
Crown rust (1–9)	8	5	4	5	4	6	3	4	1.1
Treated yields with and without PGR (% treated control)									
With PGR (8.7 t/ha)	104	100	100	97	96	76	72	71	3.9
Without PGR (8.7 t/ha)	104	99	99	97	95	77	73	73	4.6
Annual treated yield (% control)									
2016 (8.6 t/ha)	106	100	97	97	94	73	68	70	4.8
2017 (8.0 t/ha)	102	100	98	100	93	78	69	69	5.6
2018 (9.3 t/ha)	101	100	102	97	99	76	76	74	3.9
2019 (9.3 t/ha)	105	100	99	96	98	78	76	77	7.0
2020 (8.3 t/ha)	105	99	101	95	94	75	73	70	5.1
Breeder/UK contact									
Breeder	R2n	R2n	Sen	IBERS	IBERS	IBERS	IBERS	IBERS	
UK contact	RAGT	RAGT	Sen	Sen	Sen	Sen	Sen	Sen	
Status in RL system									
Year first listed	18	16	03	04	93	17	10	00	
RL status	-	-	-	-	-	-	-	-	

On the 1–9 scales, high figures indicate that a variety shows the character to a high degree (e.g. disease resistance).

C = Yield control (for current table)
$ = Dwarf variety
PGR = Plant growth regulator

IBERS = Institute of Biological, Environ. & Rural Sciences (**aber.ac.uk**)
R2n = RAGT, France (**ragt.co.uk**)
RAGT = RAGT Seeds (**ragt.co.uk**)
Sen = Senova (**senova.uk.com**)

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

The variety that makes your spare time grow...



Graham
Winter wheat

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AHDB RECOMMENDED

Source: AHDB Recommended List. The full database can be consulted at www.cereals.ahdb.org.uk