

2023 edition

www.grainco.co.uk

GrainCo
seed special

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

The UK's No 1 Wheat Variety
KWS DAWSUM

Barley Shortages Predicted

Welcome to the 2023 edition of the GrainCo Seeds Special

Which is a warning to us all that harvest will soon be here and drilling close behind that



Dave Young, GrainCo Seed Specialist

The war in Ukraine has had a major effect on cereal farming, with the rise and subsequent fall of the prices of grain, fertiliser and fuel leaving us all scratching our heads and wishing we had done things differently. Who knows what lies ahead, but all we can do is farm as efficiently as possible and hope we make a profit.

Of course we all hope that harvest 2023 will be equal or better than harvest 2022.

Last year's dry sunny summer helped us achieve the best yields ever, with good specific weights of barley and wheat and high oil contents in the rape. Autumn 2022 drilling conditions were good with crops looking to have the potential to repeat last year's performance.

The recent announcement by the UK government that they have simplified gene editing rules is good news and will help to make it easier for researchers to develop new varieties of combinable crops better able to

cope in drought situations and require fewer pesticides which is great news for farmers.

Of course we already have pod shatter and Phoma resistance in Oilseed rape as well as BYDV resistance in some varieties of barley and wheat, but cutting the need for fungicides will be a giant step forward, unless you are an agronomist or a sprayer contractor of course.

Most of the seed supplied by GrainCo is grown locally by a collection of seed growers with a long association with us. The local aspect is a massive bonus, with the cost and availability of reliable haulage a major issue at the busiest time of the year.

We can offer **Vibrance Duo** and **Kick Off** seed treatments, both of which are growing in popularity. **Vibrance Duo** combats seed borne diseases, aids improved rooting and encourages the crop to get up and away faster. **Kick Off** is a mixture of 19 Amino Acids and 8 key nutrients including Phosphites, Zinc, Manganese, Sulphur and Nitrogen which boosts healthy growth, improves root biomass for stronger winter hardiness and drought tolerance. Indeed in our own trials last year it showed a 0.7t/ha yield increase, an impressive performance, further trialling is being carried out this year.

Keeping up with variety changes is an on-going challenge for our production manager Peter Collins and the GrainCo seed team as they strive to ensure we have the best available varieties on offer for the North of England and Scotland, with good disease resistances, stiff straw and good bushel weights essential for us all as we strive to control costs and meet marketing standards.

With ag-chem prices rising, and many of the older cheaper fungicides now consigned to the history books, selecting varieties with good resistances has never been more important. Many cereal farmers are trying to cover bigger acreages than before, and coupling that with irregular weather patterns at key spraying timings means selecting a cleaner variety is a no-brainer. The other side to this is the risk of putting a large acreage into a single variety, even if it has got the best ratings. If your neighbours do the same thing, then this variety will become under immense pressure, and more than likely break down to one or more of the foliar diseases.

Winter Barley

The two row barley market welcomes a new variety this year, **LG Caravelle** from **Limagrain** ahead of farm favourites **Bolton** and **Tardis** on the recommended list.

The RL data shows a 3% yield advantage for **LG Caravelle** as well as a better mildew score at 7 and an improvement on spec weight at 71.8, just behind **Cassia**, which has for a long time been favoured by those who crush their own barley. In addition the variety will also put more pressure on the sales of 6 row hybrids, with RL data also suggesting that it is equal in yield to the **Syngenta** hybrids such as **Thunderbolt** and **Kingsbarn**.

Just one further thing that growers should take note of is that the barley area entered for seed certification has fallen by nearly 20% for this coming harvest which points to supplies of certified barley seed being exceptionally tight.



KWS Tardis, Market Weighton, June 2022.

Winter Wheat

With 39 varieties of wheat on the AHDB recommended list, it can be quite daunting trying to work out which ones to grow with the **Grainco** team having narrowed that down to 9.

The hard group 4,s dominate the winter wheat acreage in Northern England.

Dawsum from **KWS** took a large acreage in autumn 2022 – 16% nationally in fact and is likely to be even more dominant this coming autumn. We have removed long time top seller **Gleam** from our list of varieties that we offer due to its break down to yellow rust. To spread the risk in the hard group 4 category and take the pressure off **Dawsum** we have **Champion** from **DSV**, and old but proven favourites **Costello** and **Graham**.

We have for the first time added **LG Typhoon** from **Limagrain** to our seed production. This variety has almost sneaked in under the radar and when you look at its attributes there isn't anything not to like about it.

It produces good yields, a high spec weight, excellent disease ratings that include a 9 for yellow rust and an impressive 7.3 for Septoria tritici. It is

well suited to that early drilling slot and appears to be a very good second wheat.

The quality varieties are dominated by **KWS Extase**, a group 2 which has good disease ratings and performs well as both a 1st or 2nd wheat. **KWS Palladium** is another sound group 2 which can also be drilled early. **LG Skyscraper** from **Limagrain** and **RGT Bairstow** remain the firm favourites in the soft group 4 category, with **LG Skyscraper** a big seller north of the border.

Oilseed Rape

Growers have voted with their feet in recent years by switching to hybrid rape varieties instead of conventional. Hybrids account for 78% of the seed market, with **Aurelia** being the top selling variety in the UK.

There are few reasons why growers have moved to hybrids. Firstly the higher vigour and faster establishment is seen by most as the way forward since the neonicotinoid ban of 2018. More recently breeders have been able to stack more traits onto the hybrids, with the RLM7 phoma resistance, pod shatter resistance and stem strength being the current norm. Why would you take the risk when this technology is available?

The new hybrid to look at this time is **Attica** also from **Limagrain** and new



KWS Extase.

to the recommended list. **Attica** has all the added traits like **Aurelia** and a slight yield advantage in the North. There is no reason not to stick to **Acacia** if a conventional variety is your choice.

Field Demo Days

Once again during the month of June we will be holding our popular variety field days at **Boroughbridge** in North Yorkshire (21st June) and **Wylam** in Northumberland (28th June) so I look forward to seeing you there.

Thanks for the continued support.



Boroughbridge Plot Tour, June 2022.

Oil seed rape opportunities for 2023



Dave Young, GrainCo Seed Specialist

The rapeseed market is well-known for its volatility. In fact, it is a characteristic that can be said to almost define the market.

When last year's Seed Special went to press, the price of OSR stood at a peak of over £700 per tonne. This year (in March) the price is well below that record price.

But growers should bear in mind that not long before the price reached the dizzy heights of over £700 per tonne, it was down at a price similar to its value today.

It is worth remembering that markets do go up as well as down and rapeseed prices have a very long track record of fluctuation. The market price of rapeseed at the time you drill it, may not be the same 12 months later.

Looking at the bigger picture, it is useful to know that the UK's annual domestic demand for rapeseed remains consistently high at around two million tonnes – whilst domestic production has been as low as just one million tonnes and would only meet half the national requirement.

This means that UK farmers have the opportunity to grow a break crop that is always in high demand – and for a home market.

There are other bullish drivers for the OSR market too.

US biodiesel demand for soy oil and canola is strong and European rapeseed oil is being sold to China. The drought stricken Argentinian soya crop could produce less than expected and any OSR imported to Europe from Australia faces a minimum 35-day journey to our shores, a significant carbon footprint!

All this means there is likely to be opportunities to take advantage of any renewed demand.



Aurelia, Middlesbrough, April 2022.

But no one can (or has ever been able) to predict market movements.

The wisest policy is to give yourself the best chance at the outset by choosing to drill the best possible OSR variety.

A good, dependable variety will deliver the best crop with profitable yields and good quality bonuses, enabling you to make the best return on your crop.

So which varieties fit the bill?

Well growers have certainly voted with their feet in recent years by switching over to hybrid varieties which now account for 78% of the market and there are several reasons for that. Firstly the higher vigour and faster establishment is seen by many as the way forward since the neonicotinoid ban came into force back in 2018.

The breeders are now able to stack more traits into the hybrids, with the RLM7 phoma resistance, Pod shatter resistance and stem strength being the current norm. Why would you take the risk when this new technology is available?

Taking all of this into consideration we have decided this year to recommend three varieties to our growers; a conventional and two hybrids. All three are from the top seed breeder **Limagrain**, which has the majority of the top 10 varieties in the new AHDB Recommended List for 2023/2024.

Aurelia – Hybrid

Aurelia, a hybrid, is the star performer. Since its first listing in 2020, it has become the UK's top selling OSR variety – and with good reason. **Aurelia** is a fully-loaded hybrid with high autumn vigour and robust disease resistance.

Suitable for all regions of the UK, **Aurelia** boasts a gross output of 105% in the East/West and 104% in the North and it has 44.9% oil content.

Key agronomic traits include resistance to pod shatter, RLM7 and TuYV. Its solid ratings for light leaf spot and stem canker are "7" and "6" respectively. It is durable and stands well at harvest with an "8" rating for both stem stiffness and lodging resistance

Perhaps most significant, **Aurelia** is a proven performer on many of our farms over the past two seasons, consistently delivering big yields, good oils and healthy crops.

Attica – Hybrid

Attica is a newly recommend variety from **Limagrain** and has the joint highest gross output of any variety on the Recommended List at 107% – in both the North and East/West regions of the UK.

Attica offers very high oil at 45.3% making it an ideal variety for growers looking to maximise quality bonuses.

Another fully loaded variety, **Attica's** disease resistance package is strong with both RLM7 and TuYV resistance, plus pod shatter resistance. Both its Light Leaf Spot and Stem Canker resistance are highly rated with "7" scores.

Of particular note, **Attica** is one of **Limagrain's** top "Stem Health" varieties.

This means it offers higher resistance to phoma/stem canker, cylindrosporium and Verticillium Wilt. **Limagrain's** Stem Health helps to maintain green, healthy plant stems enabling the crop to reach its genetic yield potential.

With very high autumn vigour, **Attica** establishes quickly and grows away from potential pest attack. Like **Aurelia**, it has twin "8" ratings for stem stiffness and lodging resistance making it strong and durable.

Acacia – Conventional

If a conventional is what you prefer well in our opinion it has to be **Acacia** which is the UK's most popular conventional variety and has been the dominant market leader on the Recommended List since its listing in 2020.

With a wide sowing window, a good disease resistance profile and a high oil content of 45%, **Acacia** offers growers a flexible and reliable high-yielding alternative to the hybrid varieties.

Like its hybrid stablemate **Aurelia**, **Acacia** has an outstanding track record on farm and has proven itself in all regions of the UK. It is particularly appreciated for its autumn vigour and spring growth.

A robust plant type with good straw strength, its AHDB stem stiffness rating is a maximum "9" score with lodging resistance rated at "8".

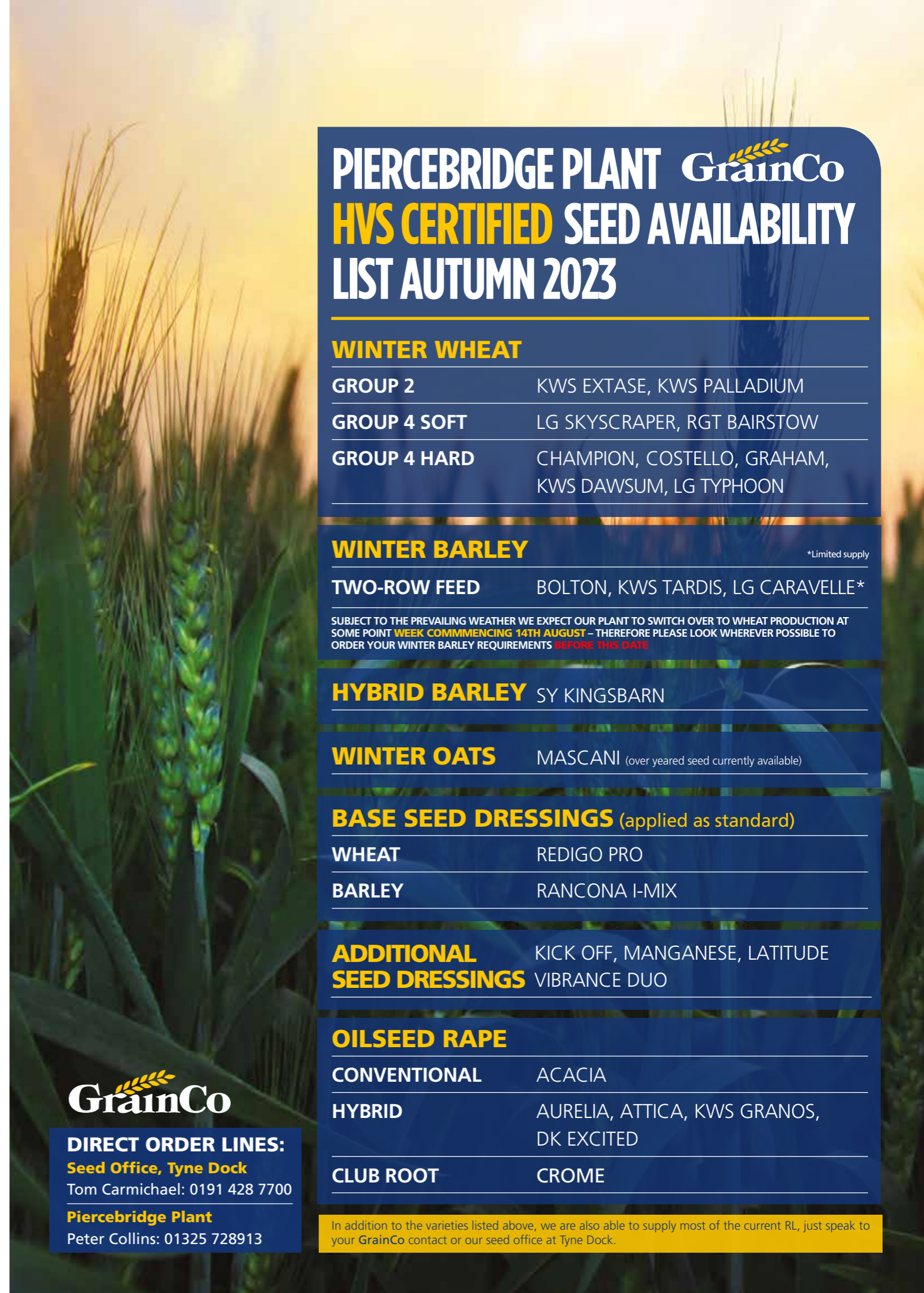
One of downsides of the push to drill rape early however is the increased likelihood of getting Club Root Infection, especially when rape is grown in ever tighter rotations, i.e. every four years or less. Therefore growing a club root resistant variety is advisable, but please remember that if everyone goes down that route then we potentially could see the resistance start to break down.

The OSR market will almost certainly continue its pattern of volatility, but this does mean there will be opportunities for growers to sell their crops for a good price. The demand is there, but the best way to ensure you have a profitable crop is to start with the right variety.

If you would like any further advice about rapeseed varieties for drilling this autumn, please get in touch with your **GrainCo** contact.



	Group 4 Hard				Group 4 Soft				Group 2	
	CHAMPION	KWS DAWSUM	GRAHAM	LG TYPHOON	COSTELLO	RGT BAIRSTOW	LG SKYSCRAPER	KWS EXTASE	KWS PALLADIUM	
UK Yield %	106	104	102	101	99	103	103	102	100	
East	107	103	101	101	99	103	103	102	100	
North	102	105	102	101	101	103	102	100	99	
Untreated Yield %	93	95	93	-	86	87	86	97	94	
Spt Wt	75.5	80	77.6	77.1	81.2	76.8	77.3	79.4	77.6	
Ripening	0	1	-1	1	2	2	0	-1	-1	
Straw Length with PGR (cm)	82	76	80	78	75	83	83	85	78	
Lodging without Pgr	6	7	7	7	7	6	6	7	7	
Lodging with Pgr	6	7	8	7	8	6	6	8	8	
Resistance to Spouting	6	7	6	5	6	6	6	6	6	
Mildew	7	8	6	6	8	6	7	7	8	
Yellow Rust	8	9	8	9	9	8	7	8	9	
Yellow Rust Seedling Resistance	Yes	Yes	No	Yes	Yes	Yes	No	Yes	Yes	
Brown Rust	5	7	5	6	5	6	5	6	5	
Septoria Tritici	8.1	6.4	6.7	7.3	5.8	6	4.9	7.8	7.4	
Eyespot	5	6	4	6	4	4	6	4	6	
OWBM	Yes	No	No	Yes	No	Yes	Yes	No	No	
First Wheat	106	104	102	100	99	103	103	101	100	
Second Wheat	107	105	102	103	99	103	104	102	100	
Light Land	106	105	102	102	99	105	103	102	99	
Heavy Land	107	104	102	100	99	104	103	101	99	
Early Drilling Potential	No	Yes	Yes	Yes	Yes	No	No	No	Yes	



DIRECT ORDER LINES:
Seed Office, Tyne Dock
 Tom Carmichael: 0191 428 7700
Piercebridge Plant
 Peter Collins: 01325 728913

PIERCEBRIDGE PLANT HVS CERTIFIED SEED AVAILABILITY LIST AUTUMN 2023

WINTER WHEAT

GROUP 2 KWS EXTASE, KWS PALLADIUM

GROUP 4 SOFT LG SKYSCRAPER, RGT BAIRSTOW

GROUP 4 HARD CHAMPION, COSTELLO, GRAHAM, KWS DAWSUM, LG TYPHOON

WINTER BARLEY *Limited supply

TWO-ROW FEED BOLTON, KWS TARDIS, LG CARAVELLE*

SUBJECT TO THE PREVAILING WEATHER WE EXPECT OUR PLANT TO SWITCH OVER TO WHEAT PRODUCTION AT SOME POINT **WEEK COMMENCING 14TH AUGUST** – THEREFORE PLEASE LOOK WHEREVER POSSIBLE TO ORDER YOUR WINTER BARLEY REQUIREMENTS **BEFORE THIS DATE**

HYBRID BARLEY SY KINGSBARN

WINTER OATS MASCANI (over yeared seed currently available)

BASE SEED DRESSINGS (applied as standard)

WHEAT REDIGO PRO

BARLEY RANCONA I-MIX

ADDITIONAL SEED DRESSINGS KICK OFF, MANGANESE, LATITUDE VIBRANCE DUO

OILSEED RAPE

CONVENTIONAL ACACIA

HYBRID AURELIA, ATTICA, KWS GRANOS, DK EXCITED

CLUB ROOT CROME

In addition to the varieties listed above, we are also able to supply most of the current RL, just speak to your GrainCo contact or our seed office at Tyne Dock.

The GrainCo View

Which Wheat Varieties You Should Consider this Autumn?

IDEAL 1st WHEATS FOR EARLY DRILLING

- Graham
- LG Typhoon
- KWS Dawsum
- KWS Palladium

IDEAL 1st WHEATS FOR LATER DRILLING

- Champion
- KWS Dawsum
- KWS Extase
- LG Skyscraper

For obvious reasons we don't recommend that you should put the whole farm down to one variety.

Top Tip: For those of you who are using a direct drill we would suggest that you don't use a slow developer. More vigorous varieties such as Champion and KWS Extase for example would be a better option.

IDEAL 2nd WHEATS

- Champion
- Costello
- KWS Dawsum
- KWS Extase
- RGT Bairstow
- LG Skyscraper

TOP RATED FOR GRAIN QUALITY

- Costello
- KWS Dawsum
- KWS Extase
- KWS Palladium
- Graham
- LG Typhoon

BEST GENETIC DISEASE RESISTANCE

- KWS Extase
- KWS Dawsum
- KWS Palladium
- Champion
- Graham
- LG Typhoon

GOOD ALL ROUND SECURITY

- KWS Dawsum
- KWS Extase
- LG Typhoon
- KWS Palladium
- Graham
- Costello

Farmer spotlight: Andrew Morelee from Co. Durham



Andrew Morelee, Lowfield Farm, Willington.

Lowfield Farm, Willington, County Durham is the operating base for the Tynegrain member of the year Andrew Morelee.

Three generations of the Morelee family have lived and worked at Lowfield Farm, with Andrew guided by his father Andrew and ably assisted by his son, Jack.

They farm in total 2,150 acres, 1,350 of which is arable and 800 acres of grass with the family owning 95% of the land they work.

In addition to the family members, they also employ two full time farm workers on the farm along with a part time fitter.

All the work is done in-house with their own machinery, the only exception being for the picking up of the silage

where a local contractor is employed using a self-propelled forager.

The bonus of having a fitter on the farm means that much of the repairs and maintenance of the farm machinery is done in-house, reducing down time with the only exception to this being the newer equipment which to fulfil warranty rules is carried out by the main dealers.

The rotation is fairly traditional, wheat, barley and oilseed rape, as well as short term grass as a break crop.

All of the grain produced is collected and delivered to the Tynegrain store at South Shields or as and when required delivered by tractor to the Grainco site at Pierceridge. With the exception being for any barley that is kept back for feeding to the cattle.

The vast majority of the grain is marketed via the GrainCo Pools which Andrew is a huge fan of.

Spring barley is also grown on the farm as part of a stewardship scheme for over-wintered stubbles, Andrew however whole-crops this.

The stewardship scheme includes field margins and corners enabling them to qualify for points, the scheme also includes woodland management.

All of the straw is baled, with half kept for their own use, the rest is sold of the farm.

The oilseed rape straw is kept back however and is burnt in the on farm boiler, which produces heat for the houses and farm workshop.

In recent years Andrew has used digestates and fibrohos to reduce his reliance on bagged fertilisers.

In addition the family also run a 300 suckler cow herd, selling over half of the calves in the local store marts at Darlington and Hexham. The remainder are finished at Lowfield and go away fat.

The muck produced has helped improve the soil organic matter across the farm.

Other sources of income for the farm are a wind turbine and a livery business with twenty horses catered for.

Andrew's hobbies include shooting and following the South Durham hunt.

We are grateful to Andrew and the family for the many years of continued support, his success on becoming the Tynegrain member of the year and for taking the time to put this article together.

KWS Extase and KWS Dawsum setting new standards for UK



Kirsty Richards, Director, KWS

Not only is **KWS Extase** the most exciting variety to join the Recommended List since the turn of the millennium, **KWS Dawsum** has rapidly established itself as the UK's most popular Hard Group 4 wheat since its debut on the 2022/23 RL, she says.

KWS Extase is a superb example of the new generation of wheats capable of combining market value, high yield and outstanding disease resistance.

A specific weight of 79.4 kg/hl, a HFN of 294 seconds – one of the highest scores for both characteristics of any recommended breadmaking wheat – and a milling specification protein of 12.5% make it the outstanding choice in this market group.

It is also the only Group 2 variety to be supported by a buy-back contract for full milling specification through to lower protein flours by many national millers.

Its exceptional untreated yield of 97% of treated controls is 2% ahead of the next best-performing variety and owes much to its unprecedented resistance to Septoria tritici.

For this resistance, **Extase** has a score of 7.8 and was the first UK variety to be awarded a score over an 8.0 when it was first recommended. It also boasts an 8 for yellow rust and a 6 for brown rust.

KWS Extase is a French-bred, quality wheat that is performing well across northern Europe. It brings new genetics to the UK, but just as with **Skyfall**, it fits well with the growing conditions we have, she points out.

With stiff, strong straw and as one of the earliest maturing varieties on the RL, it will appeal strongly to those in the East

and those looking for complementary varieties to spread the harvest workload.

This maturity and good wet-weather disease resistance will also support its appeal to those in the West and in Northern England.

Its speed of movement through stem extension is faster than average and closer to that of varieties such as **Gallant**, so growers will want to prioritise it ahead of others when planning spring fertiliser schedules.

Reliable grain quality

Care must be taken in planning sowing to take the biggest advantage of its earliness, she explains.

Sowing later maturity crops before earlier ones can nullify any advantage. We would suggest sowing **KWS Extase** towards the very end of September in many regions, after varieties like **KWS Palladium** and **Ultimum**.

Early maturity is a key characteristic for any milling type, ensuring that grain quality is preserved, especially in a catchy harvest.

Since the 20th of May 2020, growers can no longer apply Chlorothalonil™, which puts a hole in Septoria control for many growers, Kirsty Richards points out.

Increasingly good genetics are being realised on farm as a key part of the solution, with **KWS Extase** being the variety of choice for many.

KWS recommend a spray programme tailored to the situation and season with at least two modes of action in each tank-mix at the two main timings. Growers are urged to protect genetics, so preserving **KWS Extase** as a key variety on farm today and in the future.

Awesome Dawsum

Whilst **KWS Extase** has been rewriting the rules in Group 2, **KWS Dawsum** has been setting some new standards in Group 4, Kirsty Richards points out.

New in 2022, **KWS Dawsum** has quickly established itself as the most popular hard Group 4 in the UK, offering ultimate flexibility on farm and fantastic yields right across the rotation.

KWS Dawsum has taken 15% of all wheat sales in the UK this year, but for **Grainco** this is 30%, which underlines its superb fit for the growing conditions in this area.

In the 2023/24 AHDB Recommended List, for example, **KWS Dawsum** achieves a yield of 104% for the UK as a whole but for the North this rises to 105%.

One of its biggest advantages is real on-farm flexibility resulting from a combination of outstanding production, agronomic and marketing potential.

It's a bankable barn filler delivering great yields with an exceptional specific weight of 80.0 kg/hl - one of the highest on the market today. Plus, it's a really clean, nice plant type with one of the widest sowing windows available.

KWS Dawsum suits a wide range of drilling slots to help producers fit it to their own individual circumstances and delivers fantastic yields right across the rotation.

In the latest RL, for example, early drilling yield is 107% whilst mainstream and late sown slots are still 104% which offers real versatility, especially for growers in the North of the country.

That lack of yield penalty in the later drilling slots will be of real benefit to many growers, particularly in view of the more variable growing conditions we now face.

It's also very unusual for such a high yielding variety to have such flexibility with many other big hitters rapidly losing yield potential the later they are sown. That's not the case with **KWS Dawsum**.

It's a great second wheat too, delivering 105% of controls in the latest RL compared to the 102% seen in some of the other popular Group 4s when they are drilled as second wheats.

The complete package

Although grown mainly as feed wheats, some Group 4s can be used by millers in general-purpose grists if they achieve contractual standards and **KWS Dawsum** is showing significant potential in this area, she points out.

It's always a good idea to choose varieties with a robust grain package for protein, HFN and specific weight to take advantage of any milling opportunities.

KWS Dawsum is capable of producing consistently high yields whilst offering a range of marketing opportunities for growers.

These benefits are combined with an excellent disease resistance, she adds.

KWS Dawsum delivers an untreated yield of 95%, second only to **KWS Extase**, and includes diseases resistance scores of 6.4 for Septoria and 9 for yellow rust.

Such overall versatility is going to be a really big advantage to growers, especially as this agronomic package means you can drill it earlier, if needed, without yellow rust, Septoria or poor standing becoming issues later.

It's the complete package with a foundation of strong genetics and no obvious weaknesses. It's a truly awesome variety that will earn itself a place on many farms this season!



KICK-OFF

What you need on your seed



Helps convert a good yield into a **GREAT ONE!**

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



Trial site highlights from harvest 2022

Dawsum comes out on top at the GrainCo Wylam Trial Site in Northumberland!

Bred by KWS, Dawsum was the highest yielding wheat variety in the 2022 trial at our Wylam site in the Tyne Valley.

It has already established itself as the market leader nationally taking a 16% share of the certified seed area. Here in the North of England demand for the variety was particularly strong with the variety being the top selling variety through our Piercebridge based plant near Darlington taking 28% of our throughput.

It is more than likely to become even more popular again for this coming autumns plantings.

Just behind Dawsum was Graham, a variety that continues to perform well for a number of years in our region. It really should only be grown as a first wheat and has a very robust disease resistance package and is ideally suited to that early drilled slot, it's also very early to harvest.

Champion came onto the RL at the same time as Dawsum and yielded a

Variety	Yield T/ Ha	Spec WT	Protein
KWS Dawsum	12.0	80.8	11.3
Graham	11.8	77.8	11.1
Champion	11.8	76.2	11.2
Gleam	11.7	77.6	10.7
RGT Bairstow	11.5	77.5	11.7
LG Illuminate	11.5	79.2	11.6
KWS Extase	11.4	79.6	11.5
Oxford	11.4	76.8	11.7
LG Skyscraper	11.3	77.3	11.6
LG Astronomer	11.3	79.0	11.4
Costello	11.2	81.2	11.8
KWS Palladium	11.0	77.5	11.3

fraction lower. Growers should note that its specific weight is a touch on the lower side which could be an issue in poorer summers than 2022. Seed production was very limited in comparison and therefore sold out very quickly. This variety now holds the world record for yield!

Gleam has done a great job for growers over a number of years and although it performed well again at our Wylam trial site, those who visited will have noticed the variety has now broken down to yellow rust and we would therefore suggest moving on from this variety and look at trying LG Typhoon as a possible alternative.

Another new variety to mention that performed well was RGT Bairstow. This soft Group 4 variety is establishing itself as a popular choice with biscuit wheat growers. It stands on the list with a +2 for ripening which may be a touch late for some growers but does aid spreading the workload at harvest time for let's face it despite our best efforts we cannot be in two places at once!

Kick Off Seed Treatment delivers very promising results at our Boroughbridge Trial site!

At our Boroughbridge continuous wheat demonstration site, Kick Off seed treatment which is a plant growth stimulant containing 19 important amino acids and generous levels of Phosphite, Zinc, Manganese, Phosphate, Potassium, Nitrogen and Sulphur out yielded the controls.

Two half acre plots of Graham winter wheat were grown side by side, one drilled just with the market leading single purpose dressing Redigo Pro and the other with the addition of Kick Off.

Host Farmer Stephen Buckle reported that from the combine seat the plot



Dave combining the plots at Wylam, Northumberland – he never stops!

treated with Kick Off appeared much thicker and this was borne out with some impressive yield results. The combine meter reading recorded a difference of 0.7t/ha with the Kick Off treated plot yielding 10.3t/ha compared to the non-treated plot at 9.6t/ha.

Stephen commented that the yield increase was very impressive especially when you factor in the additional cost of Kick Off was only £10/ha (£4/ac) and feed wheat currently around £215p/t, a very healthy return indeed.

We do have to bear in mind however that this is just one trial and that further trial work is needed to see if this yield increase will be repeated on his farm.

Therefore this year we have two 1.5 acre plots side by side in the adjacent field using the variety KWS Dawsum, again one plot dressed with Redigo Pro and the other with the addition of Kick Off.

We await the results!

ESTABLISH A STRONG AND RESILIENT CROP WITH VIBRANCE® DUO THIS SEASON

PROVEN TO:

- ▶ CONTROL KEY SEED-BORNE DISEASES
- ▶ IMPROVE ESTABLISHMENT
- ▶ INCREASE ROOTING
- ▶ PROTECT YIELD



VISIT OUR WEBSITE TO SEE THE VIBRANCE EFFECT®
www.syngenta.co.uk



LG Typhoon – a wheat delivering security



LG Typhoon is a high yielding Group 4 hard wheat from breeders Limagrain UK, that joined the AHDB Recommended List in 2022–23.

The variety offers the package that growers have been asking for in a hard wheat; a high yielding, consistent and resilient variety with a solid all-round disease package and OWBM resistance.

“LG Typhoon delivers a good consistency of performance across very different seasons and regions of the UK, yielding 101% – a great attribute to have in any variety,” says Ron Granger, Limagrain UK’s arable technical manager.

Mr Granger acknowledges that whilst yield is important, growers fundamentally like to grow robust varieties that deliver time and again across seasons and rotations. “This is exactly what LG Typhoon does.”

He attributes LG Typhoon’s consistency of performance across locations, seasons and rotations, mostly down to the variety’s excellent

all-round foliar disease resistance and agronomic characteristics.

“It has a very good untreated yield (92%); and a good specific weight (77.1 kg/hl), both important attributes in the hard feed sector.”

“LG Typhoon’s resistance rating of 7.3 for Septoria, comes from a combination of genetic sources different to those in the majority of current RL varieties, and is a significant factor in protecting this resistance rating going forward. It has an excellent yellow rust resistance of 9, combined with YR seedling resistance; a valuable insurance around the earlier spray windows of T0 & T1, where yellow rust can be the main focus in regional high pressure situations.” LG Typhoon also offers the very valuable bonus of Orange Wheat Blossom Midge (OWBM) resistance, in addition to a (6) for eyespot and a 6 for Fusarium.

Mr Granger believes a lot of second wheats could be drilled this autumn, taking into account the high price of wheat, and highlights LG Typhoon’s excellent performance as a second

wheat – yielding 103% of control, putting it amongst the most popular varieties in this rotational position.

LG Typhoon also offers very valuable on farm agronomics: “Its stiff straw and good lodging resistance is in line with other feed wheats, such as Gleam. It is a high-tillering variety that performs well at lower seed rates, and can be drilled from mid-September to mid-February, however, it exhibits a genuine suitability regarding its slow growth habit, for the earlier sowing situation, yielding 103%.”

“We also found that LG Typhoon appeared to be more robust in a stress situation, as we saw at the end of April 2021, when crops had endured a month of frost and drought. Whilst most crops were turning yellow, LG Typhoon stayed greener and healthier for longer, which may reflect a superior rooting ability.”

LG Typhoon performed very well on farm in the testing season of 2022 and would appear to have the attributes for the direct drilling/ wider row Re-Gen adoption, that is increasing on farm presently.

LG Typhoon at a glance

- LG Typhoon is ‘resilient’ – it performs consistently well in treated trials across seasons and regions.
- Its high untreated yield highlights the excellent foliar disease resistances, particularly for Septoria and both adult and seedling resistances to yellow rust.
- It performs very well as a second wheat, and is a genuine early drilling variety.
- A variety for consideration for the Re-Gen situation of direct drilling and wider row situations.

Email: ron.granger@lgseeds.co.uk



Grainco Seed Manager, Peter Collins (left) pictured in a crop of Typhoon with Limagrain’s Arable Technical Manager, Ron Grainger, April 2022.

Nabim Group 2

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

KWS EXTASE Boisseau x Sorehio UK Market Share 14.5% UK Yield 102% East 102% North 100% Untreated Yield 97%

This extremely popular variety, second only to Dawsum for market share offers growers excellent grain characteristics and unrivalled levels of disease resistance which include scores of 8 for yellow rust and an impressive 7.8 for Septoria tritici.

A taller variety with stiff straw, it is best suited to being drilled from 20th September onwards due to its vigorous autumn growth habit. It is however one of the earliest to ripen and coupled with its high specific weight offers growers good levels of harvest security, an important consideration for northern growers in a catchy season.

Undoubtedly it will once again be on most growers shopping lists this season.



SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

KWS PALLADIUM KWS Trinity x KWS Zyatt UK Market Share 1.7% UK Yield 100% East 100% North 99% Untreated Yield 94%

Newly added to the RL for last autumn this variety has all of the attributes to make it a real farmer friendly variety for while it might not appear to have the yield to match the so called big hitters, it offers growers so much more.

First of all it offers one of the highest untreated yields available which includes scores for Septoria (7.4), mildew (8), yellow rust (9) and eyespot (6).

It has short stiff straw, a good specific weight and is comfortable being drilled in either rotational slot. Indeed for those northern growers who are keen to make an early start to drilling the variety can be drilled from the 10th September onward and crucially it is one of the earliest to mature (-1)



KWS Palladium, Tadcaster, April 2023.

ALL DRESSED UP AND READY TO GROW



Protecting Yield, Quality and Profit

LATITUDE®
The only take-all seed treatment

Nabim Group 4 – Soft Wheats

LG SKYSCRAPER **Cassius x Santiago**

First added to the RL in 2019 this variety has now become the third most popular certified winter wheat variety grown in the UK.

LG Skyscraper is a slightly taller variety with twin 6's for lodging so a good Pgr programme should be considered and consequently is best suited to the main drilling window. The variety is equally at home on both light and heavy soils and can be comfortably drilled in either rotational slot, in fact it's one of the best second wheats available.

A well liked, extremely consistent performer on farm and in trials over the past five years where we have seen a huge variation in weather patterns, its yield performance has not varied by more than one percent.

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

RGT BAIRSTOW **Cougar x Santiago x Revelation**

Newly added to the RL last year, RGT Bairstow is a three way cross that brings a stable set of genetics to the table.

It's a very consistent performer across all the regions and all soil types and demonstrates its flexibility by being comfortable being drilled either as a first or second wheat.

The variety has a very sound set of disease resistance scores no doubt in part to its Revelation parentage which include a score of 8 for yellow rust and a 6 for Septoria tritici which is a marked improvement over its direct competitor in the sector.

A taller variety RGT Bairstow is best suited to the main drilling window.



RGT Bairstow, Malton, June 2022.

Nabim Group 4 – Hard Wheats

SYNGENTA GRAHAM **Primo x Expert** UK Market Share 7.2% UK Yield 102% East 101% North 102% Untreated Yield 93%

First recommended in 2016 this variety continues to offer growers consistency of performance on all soil types and rotational slots and retained its position as the fourth best-selling wheat last season.

The variety's annual treated yield year on year has actually improved averaging an impressive 104% of controls over the past two seasons, up from 101% in 2018.

Ideally suited to the first wheat slot, it's a medium tall, stiff strawed variety with very good grain quality. When we look at disease resistance it has very good scores in particular to Septoria tritici and yellow rust ensuring the variety continues to have one of the best untreated yields available.

Northern farmers in particular appreciate its ability to be drilled from the 1st September onwards and crucially its very early maturity allows growers to make an early start to combining.

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

KWS DAWSUM **Costello x Kerrin** UK Market Share 16.2% UK Yield 104% East 103% North 105% Untreated Yield 95%

Anticipated to take a 10% market share last year, this variety exceeded all expectations with seed merchants posting 'Sold Out' signs very early in the season and ended up taking just over 16% to become the UK's most popular variety in 2022.

Now why would that be?

Well firstly look at its UK and in particular its Northern region yields where it is the joint highest. The varieties first and second wheat performances are amongst the best available and in early sown AHDB trials it remains the highest yielding wheat at 107% of controls.

When it comes to drilling, farmers will love its flexibility as it can be drilled from the 10th September onwards and is equally happy being drilled right through to the end of November.

Dawsum is a high tillering medium short, stiff strawed variety and is more than happy to be drilled into either light or heavy soil situations.

If we switch our focus onto disease resistance, growers will notice its very good scores for Septoria tritici and yellow rust where it has both seedling and adult resistance, all of which go towards giving the variety its impressive untreated yield of 95% of controls, second only to Extase (97%).

The variety also offers growers a huge specific weight and the best score on the RL for sprouting resistance, both of which are an invaluable asset to growers in a catchy season.

NEW TO GRAINCO EXCELLENT SEPTORIA RESISTANCE + SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

LG TYPHOON **LG Garrus x LGW88** UK Market Share 2.4% UK Yield 101% East 101% North 101% Untreated Yield 92%

Newly added to the RL last year, LG Typhoon may well have slipped under the radar of many farmers, however it is a variety that needs serious consideration for this coming autumn's plantings.

At 101% of controls it may not appear at first to be one of the big hitters when it comes to yield, however it is a very consistent performer across all regions and comes with a very respectable specific weight of 77.1.

The variety has also got one of the best untreated yields available, highlighting its excellent foliar disease resistances particularly for Septoria tritici along with both adult and seedling resistance to yellow rust. The variety also looks to have a good level of eyespot resistance which may well go to explain in part why the variety performs well as a second wheat.

For those growers looking to make an early start to drilling, LG Typhoon exhibits a genuine slow growth habit making it an ideal variety for this slot at 103% of controls.

It tillers well, is of medium height with stiff straw and also offers the added bonus of Orange Wheat Blossom Midge resistance.

- LG Typhoon is 'resilient' – it performs consistently well in treated trials across seasons and regions.
- Its high untreated yield highlights the excellent foliar disease resistances, particularly for Septoria and both adult and seedling resistances to yellow rust.
- It performs very well as a second wheat, and is a genuine early drilling variety.

Group 4 – Hard Wheats

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

DSV CHAMPION Reflection x DSV 20122 (Coded Line)



Champion is the ultimate barn buster, previously topping the Candidate List in 2021/22 and then also topping the 2022/23 Recommended List with the highest yield available overall.

On this year's new 2023/24 Recommended List, Champion as you would expect is the highest yielding feed wheat (Group 4) (106.3%) available and unsurprisingly with just one exception is the highest yielding wheat on the list when grown as either a first or second cereal.

In addition Champion is the top variety when drilled on heavy soils and second on light soils, all off which shows its versatility and suitability to a wide range of sites.

It has one of the best untreated yields available with outstanding disease resistance scores for Septoria tritici and yellow rust (seedling and adult) and comes complete with OWBM resistance.

The variety has a powerful high tillering growth habit, being five days faster than average in the later sown period therefore it's best suited to the main drilling window. Accordingly on very fertile soils the seed rate can be cut back by between 10-15%.

Champion has medium length straw, with very little lodging seen over five years of trials in the UK and in common with most other varieties it will benefit from a good PGR programme.

Oh and by the way a crop of Champion grown by a Lincolnshire farmer has been confirmed as a world record, yielding 17.96t/ha beating the existing 17.40t/ha world record achieved in New Zealand in 2020.

Well done to all, impressive stuff.

UK Market Share 6.9%		UK Yield 106%		East 107%		North 102%		Untreated Yield 93%	
1st Wheat %	106	Mildew	7	Yellow Rust Resistance (Young Plant)	R	Yellow Rust	8	Resistance to lodging (-PGR)	6
2nd Wheat %	107	Brown Rust	5	Resistance to lodging (+PGR)	6	Light Soils %	106	Septoria Tritici	8.1
Heavy Soils %	107	Eyespot	5	Specific wt kg/ha	75.5	Resistance to lodging (-PGR)	6	Resistance to lodging (+PGR)	6
Maturity	0	OWBM Resistance	YES						



Grainco Seed Manager Peter Collins pictured inspecting a crop of Champion with Sarah Hawthorn, Sales and Marketing Manager of DSV, April 2022.

SEEDLING AND ADULT RESISTANCE TO YELLOW RUST

SENOVA COSTELLO Timaru x W151

First recommended in 2015 this variety continues to be a popular variety on many farms due in part to its all-round consistency.

First wheat, second wheat, light land, heavy land it just takes everything in its stride.

It's short with super stiff straw and has exceptional grain quality, a valuable asset that shouldn't be forgotten about in a challenging season. The variety also still maintains its seedling and adult resistance to yellow rust despite the continued threat from new races, insuring it continues to offer a solid disease resistance profile.

With the recent addition of newer higher yielding varieties, its market share is understandably now starting to decline.

Costello, Market Weighton, July 2022.

UK Market Share 1.8%		UK Yield 99%		East 99%		North 101%		Untreated Yield 86%	
1st Wheat %	99	Mildew	8	Yellow Rust Resistance (Young Plant)	R	Yellow Rust	9	Resistance to lodging (-PGR)	7
2nd Wheat %	99	Brown Rust	5	Resistance to lodging (+PGR)	8	Light Soils %	99	Septoria Tritici	5.8
Heavy Soils %	99	Eyespot	4	Specific wt kg/ha	81.2	Resistance to lodging (-PGR)	7	Resistance to lodging (+PGR)	8
Maturity	+2	OWBM Resistance	NO						



WORLD CHAMPION

THE WHEAT TO BEAT



THE HIGHEST YIELDING WHEAT IN THE WORLD*

DSV CHAMPION GROUP 4 – HARD

The ultimate barn filler with list topping yields
 Orange blossom midge resistance
 Robust resistance genetics against yellow rust
 Impressive scores for Septoria tritici



Innovation for your growth

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* The highest wheat yield is 17.95 tonnes/ha (39572.97 lbs/ha) and was harvested from 8.2920 ha (20.49 acres) by Tim Lamyman (UK) in Louth, Lincolnshire, UK, on 10 August 2022. Data from Guinness World Records.

Barley drillings rise on back of high yielding feed varieties



Will Compson, Country Manager, KWS UK

better prices encouraged more growers to drill winter barley in Autumn 2022.

Total UK winter barley drillings were up by just over 4% at 454,000ha compared to 436,000ha in 2021 with malting area falling slightly to the benefit of both 2-row and 6-row feed types.

This is against just 318,000ha total area drilled in 2019 and reflects how winter barley has bounced back in recent years.

Many see the benefits of using winter barley to increase crop diversity, while others argue that it can be a more profitable option than second wheat. This is due to its higher yield potential and lower input requirements.”

The KWS market share of the winter barley market now stands at just over 50% with KWS Tardis established as a firm favourite amongst growers, he explains.

KWS Tardis is an easy to grow 2-row winter feed barley that has a strong set of features making it attractive to growers, no matter their location.

It's one of the UK's highest yielding 2-row winter feed barleys, with a performance that rivals many of the 6-row hybrid and conventional types.

It is especially strong in the East with a yield of 105% of control in the latest RL and thanks to its super stiff straw, performs well on heavy land where it delivers its best yield at 107% controls.

But it doesn't stop there. KWS Tardis also has an excellent disease package, boasting a score of 6 for Rhynchosporium and 5 for net blotch.

Not only that but it has one of the best untreated yields available at 85% treated controls. It's also early to mature and delivers marketable grain with a very good specific weight at 70.6 kg/hl with low screenings, too.

Winter barley remains an important part of many UK growers' rotations with high yielding feed varieties such as KWS Tardis leading the charge.

Better weather in the autumn, a slight increase in OSR in some rotations and

Big on yield and quality!

TARDIS

KWS TARDIS

- Excellent yields across the UK combined with very high specific weight
- Outstanding yields in the east and on heavy land
- Super stiff straw – the only winter barley on the 2023/24 RL with twin 8s for standing

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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.

Avoid this

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



LG Caravelle – the two-row that yields like a hybrid!



Ron Granger, Arable Technical Manager, Limagrains UK

It offers growers UK yields of 106.3% – which is as good as the top yielding hybrid barley variety – and has shown yields 3% above the best hybrids in the east.

The variety has shown a high consistency of performance across both regional and seasonal data sets and these high yields are backed up by an excellent disease profile, reflected in LG Caravelle's high untreated yields.

Agronomically, the variety is shorter strawed like LG Mountain and offers good lodging and brackling ratings with an earlier maturity (0).

LG Caravelle is an exciting new variety from the Limagrains breeding stable and is the highest yielding two row winter barley to join the 2023/24 Recommended List and the variety dispels any misconception that two row barleys are lower yielding than hybrids.

Importantly, LG Caravelle also offers growers an exceptionally high specific weight for a winter barley, of 71.8 kg/hl.

There is no doubt that LG Caravelle has raised the bar in yield potential and combined with the desirable agronomic attributes of good disease

resistance, stiff straw and an excellent specific weight, it is the ideal winter barley for growers to consider for drilling this Autumn.



Barley growers advised to order early as certified seed barley area drops significantly

A combination of high cereal and oilseed rape prices available to growers last summer coupled with the continuing and ever increasing shortage of experienced seed grower's available saw the certified seed area for winter barley planted last autumn fall quite significantly, in fact by upwards of 20%

Commercial barley plantings however increased quite substantially last autumn with certified seed supplies fortunately being able to meet demand due to the exceptional harvest.

With the continuing challenges that we see related to the growing oilseed rape, coupled with reduced prices, market commentators are predicting the potential for barley plantings to increase again this autumn.

Even if that didn't actually occur and plantings just remained stable, it doesn't take a mathematical genius to work out that if you factor in a known 20% decrease in available product along with the unknown barley yields for this harvest, barley supplies will be extremely tight this coming season.

In fact it's highly likely that we could quite easily see a sell-out situation occurring quite early in the season.

Therefore if you are planning to put some barley in the ground this autumn, please speak to your Grainco contact as soon as possible...



Grainco's Northern Arable Representative, Tom Carmichael pictured in our LG Caravelle seed crop, April 2022.



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

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

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Our Supreme ley mixtures are specifically designed to incorporate some of the best available material, tried and tested across the UK, these include established favourites;

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IN ADDITION WE OFFER;

SUPREME PROTEIN – A 3-4 year ley with red clover to enhance home grown forage.

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In addition to our Supreme Range of grass mixtures we can also supply a wide range of environmental & Countryside Stewardship Mixtures including over 80 species of wild flowers to enhance your farmland which include the ever popular;

AB1 NECTAR FLOWER MIX

AB3 BEETLE BANK MIX

AB8 FLOWER RICH AREAS AND MARGINS

AB9 ONE AND TWO YEAR WILD BIRD COVER – mixtures with an option to include Sunflowers.

GrainCo

So whether it be a specialist grass ley / Wildflowers / Meadow Mix / Stewardship / Pollinators / Cover Crop / Game Cover or Amenity mixtures you are looking for we will do our best to help all delivered within 72 hours with a next day service available should it be required.



Practical steps to maximize your bean returns



Although harvest 2022 was extreme, we have slowly been building towards this eventuality. The most popular spring varieties now grown in the UK all tend to naturally have a low thousand grain weight (TGW) and in a very dry, hot year these characteristics are even more acute, leaving us with a crop that is only suitable for animal feed.

In a bid to combat dry spring weather and ensure an early harvest, more growers have reverted to winter beans. Unfortunately, the human consumption market for winter beans is very limited and so the majority end up adding to the already congested feed heap.

There are fundamental steps growers can take to maintain our access to the human consumption markets in the Middle East North Africa. Variety is the number one priority; growing a variety of spring beans with a high TGW (such as Yukon) will give a far greater chance of producing high quality human consumption beans with the widest market opportunities available. It doesn't matter what crop you produce; if you achieve high quality, you will have far more options available when it comes to selling.

Ensuring beans are sampled at harvest is also of vital importance. The human consumption market can vary enormously from one day to the next



Beans left undried can soon turn mouldy.

and there can often be opportunities for all manner of quality grades. There is nothing more frustrating than receiving a sample of beautiful beans in March when the market for that quality has all but ended and they consequently end up on the feed pile.

Prompt drying and correct storage makes a huge difference to the long-term quality and subsequent market options available. Often it is not always practical to dry beans immediately after harvest or to keep them in a suitable long term store in which case it is better to move them as soon as possible to a third party store for drying and storage.

Wherrys have enjoyed a strong trading relationship with GrainCo and their growers; we will always endeavor to find the best and most suitable home available to suit each individual grower's requirements.

– Mike Temple, Pulse Trader, Wherry & Sons



100 High TGW beans Vs 100 Low TGW beans.

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CF recommends spreaders are set up for both application rate and spread pattern using industry standards before each application. *40% reduction in Nitram production emissions from a 2010 baseline.

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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