

AUTUMN SEED BROCHURE 2023





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## DRILL DATES AUTUMN 2023

Variety	Drilling Window	Second Wheat Performance
KWS Zyatt	20th Sept - End Jan	Excellent
Skyfall	Mid Oct - End Jan (Latest safe sowing date 7th March)	Good
Crusoe	Mid Sept - End Jan	1st wheat preferred
KWS Ladum	1st Nov - April	No Data
Nissaba	1st October - April	No Data
KWS Extase	25th Sept - End Jan	1st wheat preferred
KWS Ultimatum	20th Sept - End Jan	Good
KWS Palladium	7th Sept - Mid Feb	Good
Mayflower	20th Sept - End Feb	Good
LG Astronomer	15 Sept - Mid Feb	Good
LG Illuminate	15 Sept - Mid Feb	Good
KWS Zealum	13th Sept - End Jan	Excellent
LG Skyscraper	25th Sept - End Jan	Good
RGT Bairstow	Mid Sept - End Feb	Good
LG Spotlight	25th Sept - End Feb	1st wheat preferred
Champion	20th Sept - Mid Feb	Good
KWS Dawsum	7th Sept - End Jan	Good
Gleam	1st Sept - Mid Feb	Excellent
Graham	1st Sept - End Jan	1st wheat preferred
KWS Cranium	Mid Sept - End Jan	Excellent
LG Typhoon	Mid Sept - End Feb	Good
Costello	12th Sept - End Jan	1st wheat preferred

### HARVEST 2023

Harvest 2022 will be remembered for being one of the hottest, driest and earliest on record. For Mortimers, Harvest 2022 was a huge success, processing more seed than ever before. Many farmers made the most of the long gap between harvest and drilling by farm saving seed, knowing that at Mortimers, it is processed to the same very high standards as our certified seed, with every grain passing through the colour sorter.

Since last harvest we have continued to invest, building a new seed storage shed, which will make seed dispatch even more straightforward for Harvest 2023. We have also continued to invest in our haulage fleet, giving us a broader range of delivery options for getting your seed onto farm as quickly as possible.

We are continuing with our hugely successful independent trials at the Beevers' Farm at Cottam Warren. The trials day last year was incredibly well received, and we will be doing the same again, with even more breeders present, end home user analysis and more trade stands. The plots remain farm scale, honest assessments, to allow us all to scrutinise together the best varieties to grow.

New, interesting varieties which have impressed us this year include the new highest yielding feed barley on the recommended list, LG Caravelle, which yields at 109 in our region, 3% more than any of the hybrids! This, coupled with its

excellent grain quality (a bushel weight of 71.8) and robust disease package, means it should be very popular.

To all of our winter malting barley growers, Muntons preference for Harvest 2024 is SY Vessel. Demand for barley varieties which are classed as nil GN is increasing. Distilling varieties can also be used for brewing but brewing varieties cannot be used for distilling. SY vessel is a distilling winter barley that has performed well both on farm and in the maltings over the last two seasons. Winter barley growers need to move to SY Vessel for Harvest 2024 to reflect the increasing local maltster demand for distilling barley. The target is low nitrogen grain for this market.

On the wheats, there is an interesting option for Group 1 milling wheat growers. Nissaba is categorised as a spring wheat as it has no vernalisation, but it can be drilled from 1st October through to April. When sown in Autumn, it yields the same as skyfall, but benefits from a more robust disease package with 5 for yellow rust, 9 for brown rust, 6 for Septoria tritici and is OWBM. This variety can be seen at the crop trails for anybody who is interested.

Thank you for your ongoing support and we look forward to doing business in the coming Harvest 2023 season.

From all at Mortimers.



# AGRICULTURAL LABORATORY SERVICES - NEW IN 2023

Mortimers has established a new Official DEFRA Seed Testing Laboratory - Agricultural Laboratory Services Ltd (ALS), here in Driffield.

We have created ALS to meet our own needs as a professional seed producer and to offer the same service to the wider industry and our farmer customers as well.

Simon and Josie who now run the ALS laboratory are both fully qualified licenced seed analysts and have worked in the local area in a number of agricultural businesses for many years, including most recently at SGS.

ALS is a fully DEFRA (OSTS) licenced seed laboratory and will offer both official DEFRA and advisory seed and germination analysis, disease analysis, grain analysis and mycotoxin analysis. Please see the advert on the back cover of the brochure for more details.

Mortimers already has a fantastic reputation for its locally produced seed backed by significant investment in colour sorting, storage and handling facilities, its own haulage and an outstanding team of people.

Having ALS on site will remove any delays to testing, so speeding up the delivery of seed to farm at Harvest.

All of ALS's services will also be available to our customers for their farm saved seed, whether produced through our plant, or treated by a mobile on farm. Putting Simon and Josie's experience to work in the new business, but running it alongside Mortimers, means that you benefit from all of Simon and Josie's skills, with the confidence that comes from Mortimers existing 150 year reputation for service, financial stability and local knowledge.

Looking into the future, it is my belief that staying local and independent, whilst also investing in and developing the services we offer are essential: you cannot stand still

From all at ALS.

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### ABOUT US

Mortimers are independent grain, seed and fertiliser merchants in Driffield, East Yorkshire who produce the highest quality seed at their new production facility. The state of the art plant, built in 2014, has been further enhanced in 2021, with the installation of a new large treater, a precleaner and an optical (colour) sorter. This ensures the best possible cleaning and accurate chemical application of all cereals and pulses and Mortimers offer a service for both certified and farm saved seed.

#### FARM SAVED SEED

Included in the farm saved seed service is an option to haul your tonnage to and from our plant. Alternatively, we can arrange for your grain to be collected and brought back to farm. We can also test seed for germination and TGW. If a Glyphosate type product has been used, a full grow-on test would be required. Collection of any BSPB royalty is typically undertaken by us and paid over on your behalf. Alternatively, you are free to pay royalty on a hectarage basis. Full guidance is available on request.

We have our own on site weighbridge: farm saved seed will be weighed in and screenings will be credited with their feed value at the time. Our emphasis is on quality when cleaning and treating your farm saved seed. Our Cimbria seed cleaning equipment and optical sorter ensures the seed is cleaned to the highest standard, and accurate chemical application through the Bayer Evolution seed treatment applicator, results in the best possible start to your crop.

#### **CERTIFIED SEED**

Certified Seed wherever possible will be selected from one of our own local quality growers. Our staff regularly inspect the growing crops to ensure they are grown to the highest standard and in the best possible conditions. Once harvested, we undertake full germination, purity and screening tests on all lots. During intake, the seed is checked again before it is allowed to tip.

Once cleaned, a representative sample is taken to an Official Seed Testing Station for a germination and purity test. We are always competitive on price and service. While it is impossible to stock every variety, we will be very pleased to offer impartial advice on varietal selection and chemical applications.



# MORTIMERS COMMERCIAL CLEANING

During 2022 and 2023, our plant and colour sorter has been busy undertaking commercial cleaning of crops. We can clean ergot out of milling wheat, barley out of milling wheat, fusarium out of malting barley and the general cleaning up of wheat.

#### The Optical (Colour) Sorter



If in future you need to clean up an otherwise valuable crop please get in touch.

# JAMES MORTIMER LTD CROP TRIALS 2023

Mortimer's have our own independent crop trials, very kindly hosted on one of our customers farms, close to Driffield on the Yorkshire Wolds. We have drilled a wide range of winter barley and wheat varieties, both new and existing. The trials are on a farm scale, to give our customers a realistic

view for future selection. Please let your farm representative know if you would like to look around the trials at any point.

In June, Mortimers are holding a trials day, please let your farm representative know if you would like to attend.



#### Some of the varieties at the trials include:

#### **BARLEYS:**

Malting: Craft, SY Vessel

2-Row Feed: LG Caravelle, KWS Tardis, KWS Orwell, KWS Cassia

Hybrid: SY Kingsbarn, SY Canyon

#### WHEATS:

**Group 1:** Skyfall, Crusoe, Nissaba

Group 2: KWS Extase, KWS Palladium, KWS Ultimatum

Group 3 Soft: LG Astronomer, LG Illuminate

 $\textbf{Group 4 Soft:} \ \mathsf{LG} \ \mathsf{Redwald}, \ \mathsf{KWS} \ \mathsf{Zealum}, \ \mathsf{RGT} \ \mathsf{Bairstow}, \ \mathsf{LG} \ \mathsf{Skyscraper},$ 

LG Spotlight

Group 4 Hard: KWS Dawsum, Champion, KWS Cranium, Gleam, Costello,

LG Typhoon

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#### THE FORGOTTEN WHEAT DISEASES

#### Why do we use seed treatments?



**BUNT** Higher risk in farm saved seed repeatedly sown without a SPD



**SEPTORIA SEEDLING BLIGHT** Reduces plant establishment

Risk to health and

grain rejections

**ERGOT** 



Higher risk sowing untreated seed



**MICRODOCHIUM** NIVALE Causes significant reduction in crop establishment



**LOOSE SMUT** 



**LOOSE SMUT** 

Why do we use seed treatments?

THE FORGOTTEN BARLEY DISEASES



Higher risk from growing repeatedly farm saved, untreated seed



**LEAF STRIPE** Can build up rapidly in repeatedly homesaved seed



**ERGOT** Risk to health and grain rejections



**MICRODOCHIUM** NIVALE Causes significant reduction in crop establishment



**COVERED SMUT** Higher risk from growing repeatedly farm saved, untreated seed



# OUR TOP TIPS FOR WINTER BARLEY VARIETY SELECTION THIS AUTUMN...

#### TOP YIELDERS

LG Caravelle KWS Tardis

THE FARMERS FRIEND'S OF THE WINTER BARLEY VARIETIES...

#### **KWS Cassia**

Bold grain Good straw quality. CONSISTENT PERFORMERS...

KWS Tardis KWS Orwell KWS Cassia

MARKET LEADERS FROM AUTUMN 2022

KWS Tardis SY Kingsbarn

EXCITING
OPPORTUNITY FOR
MALTING BARLEY
GROWERS!

#### **SY Vessel**

The first dual purpose Non-GN winter malting barley with strong interest from maltsters. WHICH HYBRID VARIETY IS THE BEST CHOICE FOR BLACKGRASS COMPETITION?

Bazooka

BEST HYBRID PERFORMER ON HEAVY LAND...

**SY Thunderbolt** 

OUR PICK OF THE HYBRIDS FOR AUTUMN 2022

**SY Canyon** 



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# WINTER BARLEY



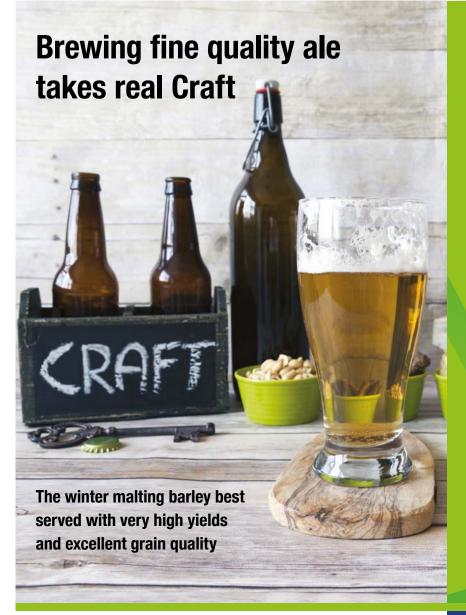
#### Winter barley 2023/24

Market options, yield and grain quality

AHDB	
RECOMMENDED	

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	Electrum	Craft	Ca	Bolivia	٧S٦	Bolton	Lightning	
Fad use seems	ŭ	δ	9		<u>≩</u> row feed	B B	ij	
End-use group				I WO-I	low reeu			-
Fungicide-treated grain yield (% treated control)	00	94	400	104	103	400	400	_
United Kingdom (9.8 t/ha)	96 96	94	106 109	104	103	103 105	103 104	
East region (9.5 t/ha)	90	94	109	105	105	105	104	
Untreated grain yield (% treated control)	=0		00		0.5			_
United Kingdom (9.8 t/ha)	79	79	89	89	85	86	90	
Main market options								
MBC malting approval for brewing use	F	F	-	-	-	-	-	
Grain quality								
Specific weight (kg/hl)	70.5	70.7	71.8	70.2	70.6	69.9	69.4	
Screenings (% through 2.25 mm)	2.3	2.2	1.5	1.1	1.7	1.5	1.9	
Screenings (% through 2.5 mm)	6.6	6.7	4.3	2.6	5.2	4.7	5.5	
Nitrogen content (%)	1.76	1.71	-	-	-	-	-	
Agronomic features								
Resistance to lodging without PGR (1-9)	7	7	-	-	8	7	[6]	
Resistance to lodging with PGR(1-9)	7	8	7	8	8	8	6	
Straw length without PGR (cm)	98	96	[93]	[91]	95	94	92	
Straw length with PGR (cm)	90	89	85	89	85	83	88	
Ripening (days +/- KWS Orwell)	-1	0	0	0	0	0	0	
Disease resistance								
Mildew (1-9)	6	6	7	7	5	6	7	
Brown rust (1–9)	7	7	-	-	6	6	8	
Rhynchosporium (1–9)	5	6	6	6	6	5	7	
Net blotch (1–9)	5	5	[5]	[6]	5	5	5	
BaYMV	R	R	R	R	R	R	R	
Breeder/UK contact								
Breeder	SyP	SyP	LimEur	NS	KWS	Ack	Ack	
UK contact	Syn	Syn	Lim	Agr	KWS	ElsAck	ElsAck	
Soil type (about 50% of trials are medium soils)								
Light soils (9.7 t/ha)	96	95	103	104	102	103	102	
Heavy soils (9.3 t/ha)	97	95	[106]	[104]	107	105	103	
Agronomic characteristics								
Lodging without PGR (%)	6	3	-	-	2	4	[11]	
Lodging with PGR (%)	5	2	2	2	1	1	9	
Brackling (%)	9	9	7	12	6	8	11	
Status in RL system								
Year first listed	18	16	23	23	21	21	22	
							<del></del>	

	Bordeaux	LG Mountain	KWS Hawking	KWS Orwell	Valerie	KWS Cassia	SY Thunderbolt	# # Wingsbam # SY Kingsbam Six-ro	** SY Canyon w feed	Bazooka #	Average LSD (5%)
_											_
	103	102	100	100	99	97	106	106	106	104	2.4
	105	102	102	100	100	97	106	106	106	104	2.9
											_
	83	83	83	82	78	82	89	85	91	84	4.7
	-	-	-	-	-	-	-	-	-	-	
	71.1	71.1	69.8	69.3	71.2	72.4	70.9	70.9	71.7	70.5	0.7
	1.2	1.9	2.0	1.8	0.8	1.5	2.1	1.4	2.0	2.4	0.7
	3.5	5.8	5.9	5.5	1.9	4.1	7.5	5.4	6.4	8.1	1.7
	-	-	-	-	-	-	-	-	-	-	0.14
	7	6	7	7	7	7	5	6	[7]	6	1.7
	8	7	8	8	8	7	5	7	5	6	1.4
	93	91	95	94	93	95	111	111	115	117	3.9
	84	84	86	86	87	90	104	104	107	108	2.4
	0	-1	+1	0	-1	0	-1	0	0	0	1.0
	6	5	6	3	7	5	7	7	7	5	1.2
	6	7	7	7	4	7	6	5	7	5	1.0
	4	5	6	6	6	5	6	6	6	7	1.2
	5	5	5	5	5	5	6	5	5	5	0.9
	R	R	R	R	R	R	R	R	R	R	-
	NS	LimEur	KWS	KWS	Bre	KWS	SyP	SyP	SyP	SyP	
	Sen	Lim	KWS	KWS	Sen	KWS	Syn	Syn	Syn	Syn	
							-,	-,	-,	-,	
	102	102	99	99	99	95	104	105	105	103	3.4
	104	102	102	101	[100]	99	107	105	105	105	6.0
					[]						2.0
	3	8	3	3	4	5	20	11	[6]	8	
	1	5	1	2	1	4	15	5	15	6	
	9	22	5	8	6	8	14	13	9	10	
			- 0			-	•		Ū		
	21	10	20	16	10	10	21	10	22	16	







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## **BARLEY**

#### WINTER BARLEY - MALTING

#### **CRAFT (SY 208-56 X SY VENTURE)**

Craft remains the most popular winter malting variety which has had strong demand from maltsters over the last few years.

However, locally we are starting to see a shift in demand from local maltsters to SY Vessel. If you are a regular winter malting barley grower, please speak to us to discuss the best option for you this autumn to maximise marketing oppportunites.

Mildew	6	
Brown Rust	7	
Rhynchosporium	6	
Net blotch	5	
Resistance to lodging (+PGR)	8	
Straw Height (+PGR)	89.0	
Specific Weight (kg/hl)	70.7	
Maturity	-2 -1 0 1	2

REGION	YIELD
UK	94
EAST	94
WEST	94
NORTH	94
Untreated yield	79
Light soils	95
Heavy soils	95

Many growers achieve very good yields with Craft despite its offcial yield figures reading lower than many other 2row varieties.

#### WINTER BARLEY - MALTING

#### **SY VESSEL**

SY Vessel is a specialist winter malting barley which has seen a surge in demand from maltsters over the last 12 months due to its ability to both brew and distill.

SY Vessel attracts a larger premium than Craft. We advise regular winter malting barley growers to try some SY Vessel this autumn - please give us a ring to discuss.

Rhynchosporium 5

Net blotch 7

UK Treated Yield (%) 95.0

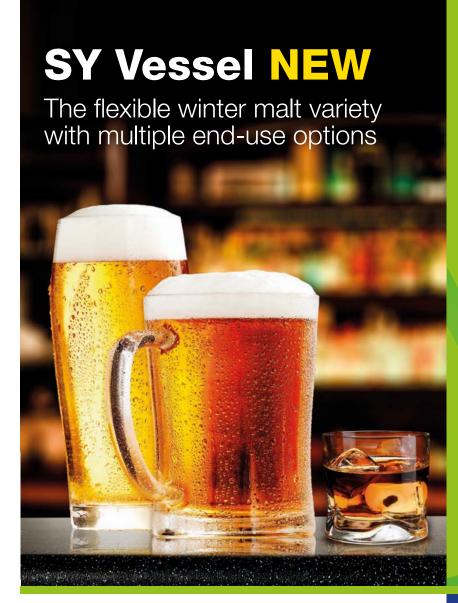
UK Untreated Yield (%) 83.0

Specific Weight (kg/hl) 71.1

Maturity -2 -1 0 1 2

Mildew 5

We had several customers grow both Craft and SY Vessel for harvest 2022. The yield of SY Vessel was comparable to that of Craft.







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#### LG CARAVELLE (LGBU11-5493-B x KWS MOSELLE)

NEW for autumn 2023! LG
Caravelle is the highest
yielding feed barley on
the market with
particularly good
performance in the East.

Excellent grain quality and disease package.

LG Caravelle is a great barn filler, offering growers a low risk, high yielding feed barley.

For those growing the likes of KWS Tardis, it might worth trying some LG Caravelle alongside it on farm this autumn.

Mildew	7				
Brown Rust	No da	ata			
Rhynchosporium	6				
Net blotch	[5]				
Resistance to lodging (+PGR)	7				
Straw Height (+PGR)	85.0				
Specific Weight (kg/hl)	71.8				
Maturity	-2 -1	0	1	2	

REGION	YIELD
UK	106
EAST	109
WEST	[105]
NORTH	[104]
Untreated yield	89
Light soils	103
Heavy soils	[106]



#### **KWS TARDIS - (11-12 X KWS ORWELL)**

New to the market last autumn, KWS Tardis is a very high yielding feed variety.

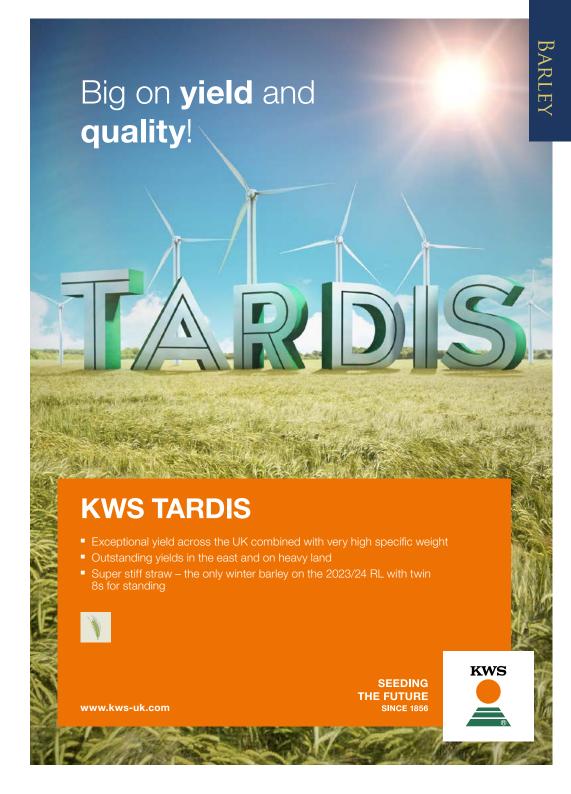
KWS Tardis had 34% of the conventional feed barley market in autumn 2022.

Excellent grain quality, stiff strawed and good agronomics - KWS Tardis is a step on for the traditional KWS Cassia and KWS Orwell growers.

Mildew	5						
Brown Rust	6						
Rhynchosporium	6						
Net blotch	5						
Resistance to lodging (+PGR)	8						
Straw Height (+PGR)	85	.0					
Specific Weight (kg/hl)	70.6	5					
Maturity	-2	-1	0	1	2		

We had some excellent KWS Tardis samples through the lab last harvest. We received some good feedback from growers who had KWS Tardis on the farm last season.

REGION	YIELD
UK	103
EAST	105
WEST	104
NORTH	102
Untreated yield	89
Light soils	102
Heavy soils	107



#### WINTER BARLEY FEED – 2 ROW CONVENTIONAL

#### KWS ORWELL (KWS TOWER X KWS SALSA)

KWS Orwell has been the most popular feed barley variety over the last few years and represented 7% of the UK market in autumn 2022.

Its consistent performance has gained KWS Orwell a loyal following but its market share is now in decline due to likes of KWS Tardis and LG Caravelle.

						_	_
Mildew	3						
Brown Rust	7						
Rhynchosporium	6						
Net blotch	5						
Resistance to lodging (+PGR)	8						
Straw Height (+PGR)	86.0						
Specific Weight (kg/hl)	69.3						
Maturity	-2 -1	0	1	2			

REGION	YIELD
UK	100
EAST	100
WEST	101
NORTH	98
Untreated yield	82
Light soils	99
Heavy soils	101

Good grain quality and good standing ability in the field but it does need watching for mildew.

some this autumn.

#### KWS CASSIA ( (EDEN X CARAT) X SAFFRON )

Despite 12 years on the market, KWS Cassia still	Mildew	5		REGION	YIELD
has the highest specific weight on the 2023/24 RL.	Brown Rust	7		UK	97
	Rhynchosporium	5		EAST	97
Consistent yields, bold grain and low screenings	Net blotch	5		WEST	97
keep KWS Cassia a very popular variety on farm.	Resistance to lodging (+PGR)	/		NORTH	95
	Straw Height (+PGR)	90.0		Untreated yield	82
Good quality straw and solid disease package.	Specific Weight (kg/hl)	72.4		Light soils	95
KWS Cassia seed supply is limited - please let us know if you would like	Maturity	-2 -1 0	1 2	Heavy soils	99

#### WINTER BARLEY - HYBRID

#### **SY CANYON - HYBRID**

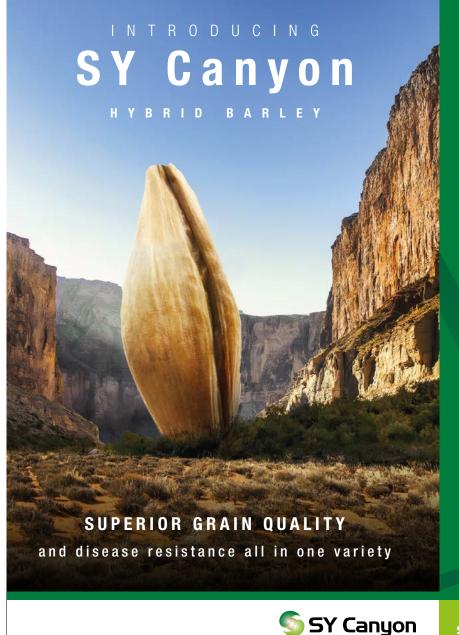
SY Canyon was a new hybrid to the market for	Mildew	7		REGION	YIELD
autumn 2022 which Mortimers have exclusive	Brown Rust	7		UK	106
access to.	Rhynchosporium	6		EAST	106
It is very high yielding with the best grain quality	Net blotch	5		WEST	107
of all the hybrid varieties with a specific weight of	Resistance to lodging (+PGR)	5		NORTH	105
71.7 kg/hl.	Straw Height (+PGR)	107.0		Untreated yield	91
SY Canyon has the highest untreated yield of all the	Specific Weight (kg/hl)	/1./		Light soils	105
hybrids of 91%.	Maturity	-2 -1 0	1 2	Heavy soils	105

SY Canyon performs particularly well on lighter soils.

#### **SY THUNDERBOLT - HYBRID**

New to the market in autumn 2021, SY	Mildew	7			REGION	YIELD
Thunderbolt is the highest yielding hybrid barley	Brown Rust	6		_	UK	106
variety.	Rhynchosporium	6			EAST	106
Performs particularly well on heavier land.	Net blotch	6			WEST	108
Good disease ratings with a 6 for both Brown Rust	Resistance to lodging (+PGR)	5			NORTH	105
and Rhyncosporium.	Straw Height (+PGR)	104.0			Untreated yield	89
Early to mature to provide flexibility at harvest.	Specific Weight (kg/hl)	70.9			Light soils	104
	Maturity	-2 -1 0	1 2		Heavy soils	107

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syngenta

AHDB RECOMMENDED

#### SY KINGSBARN - HYBRID

SY Kingsbarn is the leading hybrid barley	Mildew	7	REGION	YIELD
variety, with 12% market share of the total UK	Brown Rust	5	UK	106
barley market in autumn 2022.	Rhynchosporium	6	EAST	106
A good all-rounder that performs well on all soil	Net blotch	5	WEST	106
types.	Resistance to lodging (+PGR)	7	NORTH	107
High yields, good grain quality and disease	Straw Height (+PGR)	104.0	Untreated yield	85
package.	Specific Weight (kg/hl)	70.9	Light soils	105
Competitive growth habit good for grassweed suppression.	Maturity	-2 -1 0 1 2	Heavy soils	105

#### **BAZOOKA - HYBRID**

Bazooka is one of the older hybrid barley's on	Mildew	5	REGION	YIELC
the market but still performs very well on	Brown Rust	5	UK	104
farm.	Rhynchosporium	7	EAST	104
The best hybrid for grassweed suppression.	Net blotch	5	WEST	103
	Resistance to lodging (+PGR)	6	NORTH	104
It has reasonably stiff straw but requires a	Straw Height (+PGR)	108.0	Untreated yield	84
careful PGR program to manage its height.	Specific Weight (kg/hl)	70.5	Light soils	103
	Maturity	-2 -1 0 1 2	Heavy soils	105

# OUR TOP TIPS FOR WINTER WHEAT VARIETY SELECTION THIS AUTUMN...

CHOOSING VARIETIES TO SPREAD HARVEST WORKLOAD

Early to harvest:
KWS Extase
KWS Palladium
Graham
Mavflower

Costello
KWS Cranium
KWS Zealum

WHICH VARIETIES CAN I DRILL FROM EARLY SEPTEMBER?

Graham KWS Dawsum Gleam KWS Palladium WHICH NEW VARIETIES SHOULD I TRY THIS AUTUMN?

#### **KWS Zealum**

A NEW high yielding feed wheat with the potential for soft biscuit premium. Suitable for earlier drilling and good 2nd wheat performance.

#### **KWS Ultimatum**

A NEW Group 2 variety with an untreated yield of 93% and excellent grain quality.

GOOD 2ND WHEAT OPTIONS:

LG Skyscraper
Gleam
KWS Cranium
KWS Palladium
LG Typhoon
Champion
KWS Zealum

WHICH VARIETIES GIVE ME THE MOST FLEXIBILITY FOR LATE DRILLING?

Skyfall
LG Astronomer
LG Illuminate
LG Spotlight
LG Typhoon
KWS Cranium
Gleam
RGT Bairstow
Champion
Nissaba

TOP PICKS FOR FEED VARIETIES WITH EXCELLENT GRAIN QUALITY

Costello
LG Spotlight
KWS Dawsum

WHICH VARIETIES OFFER ME THE BEST GENETIC DISEASE RESISTANCE?

KWS Extase
KWS Palladium
Champion
Graham
Mayflower

#### **TOP YIELDERS:**

Champion KWS Dawsum LG Skyscraper KWS Zealum

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# WINTER WHEAT



#### Winter wheat 2023/24

Market options, yield and grain quality

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RECOMMENDED	KWS Zyatt	Skyfall	Crusoe	KWS Extase	KWS Ultimatun	KWS Palladium	Mayflower	KWS Gulum	RGT Wilkinson	ONTEN CO	KWS Brium
End-use group	UI	KFM Grou	ıp 1		UKFM	Group 2				UKFM G	roup 3
Fungicide-treated grain yield (% treated control)											
United Kingdom (10.9 t/ha)	99	97	96	102	101	100	97	101	101	101	100
East region (10.7 t/ha)	98	97	96	102	101	100	97	102	102	101	101
Untreated grain yield (% treated control)											
United Kingdom (10.9 t/ha)	75	70	76	97	93	94	93	80	87	85	83
Grain quality											
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft
Protein content (%)	12.0	12.0	12.5	11.7	11.6	11.6	11.8	11.0	11.2	11.0	11.3
Protein content (%) – milling spec	12.6	13.1	13.4	12.5	12.3	12.4	12.8	11.8	[12.0]	12.1	11.9
Hagberg Falling Number	271 78.4	290 79.2	279 78.5	294 79.4	287 79.6	320 77.6	304 79.2	257 78.8	264 75.4	266 75.0	278 78.0
Specific weight (kg/hl) Chopin Alveograph W	[180]	268	239	198	189	[189]	209	[56]	96	[74]	[74]
Chopin Alveograph P/L	[0.7]	1.0	0.6	0.6	0.7	[0.7]	0.8	[0.3]	0.3	[0.2]	[0.3]
Onopin / incograph / / E	[0.1]	1.0	0.0	5.0		[0.1]		[e.e.]		[]	[0.0]
Agronomic features											
Resistance to lodging without PGR (1-9)	8	8	8	7	[7]	7	6	7	[8]	7	7
Resistance to lodging with PGR (1-9)	8	7	7	8	7	8	7	7	8	8	7
Straw length without PGR (cm)	85	85	82	91	85	83	89	90	83	83	92
Straw length with PGR (cm)	75	77	75	85	75	78	82	82	77	75	85
Ripening (days +/- Skyfall)	-1 6	6	+1 6	-1 6	+1	-1 [6]	-1 [6]	+3	+2 [5]	+2 [5]	+2 [6]
Resistance to sprouting (1–9)	0	0	0	0	[/]	[O]	[o]	[0]	[0]	[0]	[O]
Disease resistance											
Mildew (1–9)	7	6	7	7 8	7 9	8	7 9	5 9	8 7	4 8	7 9
Yellow rust (1–9) Yellow rust (young plant) – see note below	s	s	r	r	ı	r	r	ı	s	r	ı
Brown rust (1–9)	7	9	3	6	6	5	6	3	5	7	5
Septoria tritici (1–9) – see note below	6.1	5.4	6.2	7.8	6.4	7.4	8.9	5.1	5.5	5.9	5.6
Eyespot (1-9) - see note below	[6]@	[5]@	[5]	[4]	[5]	[6]	[6]@	[5]	[7]@	[4]	[6]
Fusarium ear blight (1-9)	6	7	7	6	7	6	6	7	6	6	6
Orange wheat blossom midge	-	R	-	-	-	-	-	R	-	R	-
Breeder/UK contact											
Breeder	KWS	RAGT	Lim	Mom	KWS	KWS	ElsW	KWS	R2n	LimEur	KWS
UK contact	KWS	RAGT	Lim	KWS	KWS	KWS	Els	KWS	RAGT	Lim	KWS
Annual treated yield (% control)											
2018 (10.7 t/ha)	98	97	95	101	-	-	-	-	-	100	-
2019 (11.6 t/ha)	96	95	98	100	-	100	98	100	-	100	100
2020 (10.3 t/ha)	97	96	94	100	[103]	[100]	[96]	[103]	[102]	102	[102]
2021 (10.9 t/ha)	100	97 97	96	102	101	99	96	100	100	99	99
2022 (11.5 t/ha)	101	9/	94	103	102	101	97	101	101	98	100
Rotational position						100		101			
First cereal (11.2 t/ha) Second and more (9.7 t/ha)	98 99	96 97	96 94	101 102	101 [102]	100 100	97 99	101 101	101 [101]	100 102	100 101
Sowing date (most trials were sown in October)	33	31	04	102	[102]	100	99	101	[IUI]	102	101
	[101]	96	[95]	[99]	-	[[98]]	[100]	[102]	-	103	100
Early sown (before 25 Sept) (11.3 t/ha) Late sown (after 1 Nov) (9.2 t/ha)	98	97	95	102	[[101]]	[99]	[95]	[102]	[[103]]	103	[102]
Soil type (about 50% of trials are on medium soils)	00	0,	00	102	[[101]]	[oo]	[oo]	[102]	[[100]]	102	[102]
	97	96	94	102	[[101]]	99	97	101	[102]	102	99
Light soils (10.8 t/ha) Heavy soils (11.1 t/ha)	99	97	96	102	100	99	96	101	101	101	99
Agronomic features	00	0,	00	101	100	00	00	102	101	101	00
Lodging % without PGR	1	1	2	4	[4]	3	9	3	[2]	4	2
Lodging % without PGR Lodging % with PGR	1	3	3	3	4	3	8	5	1	3	7
											[End Fel
Latest safe-sowing date " Speed of development to growth stage 31 (days +/- ave		End Feb	End Jan	End Jan	[[End Jan]]	[End Jan]	[Mid Feb]	[End Jan]	[[End Jan]]	End Jan	[End Fel
Early sown (Sept)	-4	-2	-2	-4		[-2]	[-4]	[+2]		[-2]	[+2]
Early sown (Sept) Med sown (Oct)	-4	-4	-2 -1	-6		[-2]	[ <del>-4</del> ]	[+2]		[0]	[+2]
Late sown (Nov)	-2	-3	-2	-4				[+1]		[+1]	-
Status in RL system	_	-								,	
Year first listed	17	14	12	19	23	22	22	22	23	21	22

	LG Illuminate	LG Astronomer	LG Redwald	KWS Zealum	LG Skyscraper	RGT Bairstow	RGT Stokes	Champion	KWS Dawsum	Oxford	E B B B B B B B B B B B B B B B B B B B	meyes 4	KWS Cranium	LG Typhoon	Costello	Average LSD (5%)
	100	99	107	103	103	103	102	106	104	104	103	102	102	101	99	2.3
	100	99	107	103	103	103	101	107	103	104	103	101	103	101	99	2.7
	87	88	92	86	86	87	87	93	95	89	84	93	82	92	86	5.6
_																
	Soft 11.5	Soft 11.5	Soft 11.1	Soft 10.9	Soft 11.2	Soft 11.1	Soft 11.1	Hard 11.2	Hard 11.1	Hard 11.3	Hard 11.1	Hard 11.1	Hard 11.1	Hard 11.0	Hard 11.6	0.2
	12.6	12.5	[11.5]	[12.0]	12.1	12.0	12.1	12.1	11.9	[12.4]	11.8	11.9	11.9	11.9	12.4	0.5
	262	245	172	218	227	239	255	251	311	218	237	281	293	183	324	22.6
	77.0	78.2	75.5	76.7	77.3	76.8	76.2	75.5	80.0	76.0	77.3	77.6	75.8	77.1	81.2	0.6
	84	[137]	-	[63]	-	[50]	[61]	-	-	-	-	-	-	-	-	30.4
	0.3	[0.4]	-	[0.4]	-	[0.3]	[0.3]	-	-	-	-	-	-	-	-	0.2
	7	7	[5]	[6]	6	6	5	6	7	[6]	7	7	8	7	7	1.4
	7	9	5	8	6	6	6	6	7	7	7	8	8	7	8	1.2
	83	88	94	88	92	91	91	88	84	85	87	88	89	87	84	1.6
	76	79	89	81	83	83	82	82	76	79	77	80	80	78	75	1.7
	+1	+1	+2	+2	0	+2	+2	0	+1	+2	0	-1	+3	+1	+2	0.7
	[6]	[6]	[6]	[6]	6	[6]	[6]	[6]	[7]	[6]	6	6	[6]	[5]	6	1.0
	5	4	6	7	7	6	5	7	8	6	7	6	6	6	8	1.4
	7	9	7	9	7	8	7	8	9	9	5	8	9	9	9	0.6
	r	r	S	r	s	r	r	r	r	r	s	s	r	r	r	
	6 5.8	8 6.2	6 6.7	5 5.8	5 4.9	6.0	5 6.3	5 8.1	7 6.4	6.4	6 5.7	5 6.7	4 5.9	6 7.3	5 5.8	0.9
	[6]	[5]	[6]	[6]	4.9 [6]	[4]	[5]	[5]	[6]	[5]	[5]	[4]	5.9	[6]	[4]	2.0
	6	6	6	7	6	6	6	6	7	6	6	7	رد <sub>ا</sub> 7	6	7	0.4
	R	R	R	R	R	R	-	R		R	R		R	R		0.4
-	LimEur	LimEur	LimEur	KWS	LimEur	RAGT	RAGT	DSV	KWS	DSV	SyP	SyP	KWS	LimEur	KWS	
	Lim	Lim	Lim	KWS	Lim	RAGT	RAGT	DSV	KWS	DSV	Syn	Syn	KWS	Lim	Sen	
											,					
-	100	99	-	-	102	-	-	-	-	-	103	101	102	-	100	_
	101	99	-	-	103	103	104	104	104	-	103	102	101	102	99	-
	101	99	[105]	[103]	103	[104]	[102]	[105]	[105]	[104]	103	102	103	[101]	100	-
	98	98	107	102	102	102	103	106	105	103	105	104	100	101	100	-
	99	97	107	103	103	103	102	106	104	103	103	104	103	99	98	-
	100	99	107	103	103	103	102	106	104	103	103	102	102	100	99	2.3
	100	98	[109]	[104]	104	103	103	107	105	[104]	103	102	103	103	99	3.5
	103	100	[106]	[106]	103	[[104]]	[[105]]	106	107	[103]	103	101	[[102]]	103	99	4.8
	98	99	[[108]]	[[105]]	103	[105]	[101]	[107]	[104]	[[105]]	103	100	105	[101]	102	4.3
	101	99	[105]	[[102]]	103	105	104	106	105	[102]	103	102	103	102	99	3.3
	100	100	107	104	103	104	102	107	104	104	103	102	101	100	99	3.1
	3	2	[19]	[5]	7	11	25	11	4	[6]	4	5	2	3	2	-
	4	0	33	3	13	14	9	13	5	8	5	3	2	5	2	-
ıl	Mid Feb	End Jan	[[Mid Feb]]	[[End Jan]]	End Jan	[End Feb]	[End Jan]	[Mid Feb]	[End Jan]	[[Mid Feb]]	Mid Feb	End Jan	Mid Feb	[End Jan]	End Jan	
,																
-	[ 2]	[ 0 ]	-		-4	[12]	[12]	10.1	ro1	-	+6	0	[4]	[+5]	-3	7.8
	[-3] [-2]	[-8] [0]	-		-4	[+3]	[+2]	[-2]	[0]	-	+6	+2	[-4] [-3]	[+5]	-3	7.8 8.8
	[-2]	[+1]			-3		-	[-5]	[+3]		+2	-2	[-4]		-1	4.8
	[*4]	[-1]			-5			[-0]	[.0]			-2	[**]		-1	4.0
-	21	21	23	23	19	22	22	22	22	23	18	16	21	22	15	
	21	21	23	23	19	22	22	22	22	23	18	10	21	22	15	



# A WHEAT FOR ALL SEASONS

Recomended by AHDB as a Spring Wheat (AHDB 22-23). Nissaba has no vernalisation requirement and can be sown in the Spring like any other Spring Wheat. When sown in the Autumn, anytime from October onwards it remains Winter dormant until the Spring Equinox.

- Competitive to winter Group 1's from October onwards
- Wide drilling window October to April
- UKFM Group 1
- OWBM resistant
- Not prone to Yellow Rust races attacking current Winter UKFM Group 1 (Zyatt & Skyfall)
- High protein content enhancing opportunity of full Group 1 specification
- Excellent baking performance at a wide range of protein contents
- High seedling vigour and rapid emergence



## **WHEAT**

#### WINTER WHEAT GROUP 1

#### **SKYFALL (C4148 X HURRICANE)**

Skyfall has been the most popular milling wheat on farm since 2014, and is likley to remain the Group 1 of choice this Autumn.

Very wide drilling window as it can be drilled from end September through to the 7th of March.

Reasonable 2nd wheat performance.

Needs watching for yellow rust and can be susceptible to sprouting so should be given priority at harvest.

Mildew	6			
Yellow Rust	3			
Brown Rust	9			
Eyespot	[5]@			
Septoria Tritici	5.4			
Resistance to lodging (+PGR)	7			
Resistance to lodging (- PGR)	8			
OWBM	Yes			
Specific Weight	79.2			
Maturity	-2 -1 0	1	2	;
Seedling Yellow Rust Resistance	No			

REGION	YIELD
UK	97
EAST	97
WEST	97
NORTH	96
Untreated yield	70
Light soils	96
Heavy soils	97
First Cereal	96
Second Cereal	97

#### **CRUSOE (CORDIALE X GULLIVER)**

Crusoe was first introduced in 2012, and is still very popular with milling wheat growers due its consistent grain quality and ability to meet milling specifications.

Suits the main drilling window of mid september onwards through to the end of January.

A solid disease package except for its weakness to Brown Rust which needs watching.

After a very variable season in protein content in milling wheat samples harvest, Crusoe was the most consistent out of all varieties we had through the laboratory.

Mildew	7				
Yellow Rust	9				
Brown Rust	3				
Eyespot	[5]				
Septoria Tritici	6.2				
Resistance to lodging (+PGR)	7				
Resistance to lodging (- PGR)	8				
OWBM	No				
Specific Weight	78.5				
Maturity	-2 -1 0	1	2	3	

Seedling Yellow

Rust Resistance

YIELD
96
96
97
94
76
94
96
96
94

#### KWS LADUM (KWS SYWELL X KWS TALLAND)

KWS Ladum was new to the RL as a spring Group 1 milling wheat last season

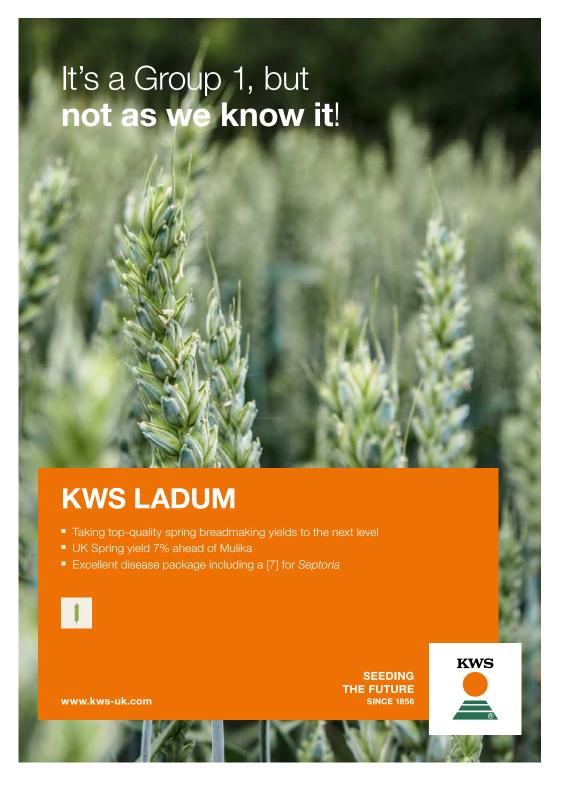
Whilst it is recommended as a spring wheat, it can be drilled from 1st
November onwards and has out performed other
Group 1 winter milling wheats such as Skyfall,
Crusoe and KWS Zyatt in the January drilling slot.

With many Group 1 milling wheats now breaking down to diseases such as yellow rust and very little material in the pipeline, KWS Ladum is worth considering for those milling wheat growers that are able to drill later on in the autumn.

Mildew	[7]					
Yellow Rust	6					
Brown Rust	[7]					
Septoria Tritici	[7]					
Straw Height without PGR	75.0					
OWBM	No					
Specific Weight	78.0					
Maturity	-2 -1	0	1	2	3	

REGION	YIELD
UK Yield as % control (Autumn Sowing)	
UK Yield as % control (Spring Sowing)	102





#### **NISSABA (MULIKA X PREMIO X W45)**

Nissaba was another new Group 1 spring wheat added to the AHDB RL in 2022/23.

Nissaba has no vernalisation requirement and can be sown in the Spring. When sown in the Autumn from October onwards it remains Winter dormant until the Spring Equinox.

Nissaba is yield competitive against Winter Group 1 varieties from October drilling over 3 years of breeder assessment trialling.

With some G1 winter wheats starting to have disease issues, Nissaba is worth trying for milling wheat growers this autumn.

Locally, Bradshaw's flour mill based in Driffield are interested in taking some Nissaba next season providing samples meet milling specification requirements.

Mildew	5					
Yellow Rust	5					
Brown Rust	9					
Septoria Tritici	6					
Straw Height without PGR	77.0					
OWBM	Yes					
Specific Weight	76.4					
Maturity	-2 -1	0	1	2	3	

REGION	YIELD
UK Yield as % control (Autumn Sowing)	97
UK Yield as % control (Spring Sowing)	94



#### **KWS EXTASE (BOISSEAU X SOLHEIO)**

KWS Extase was the most popular variety sold in the UK last harvest, alongside KWS Dawsum with a market share of 14.5%.

It has the highest untreated yield on the recommended list at 97% of control.

It is a tall variety that needs a good PGR programme and early to mature.

KWS Extase must not be drilled too early (not before 25th September) as it has a fast speed of development due to its french parentage.

7	
8	
6	
[4]	
7.8	
8	
7	
No	
79.4	
-2 <mark>-1</mark> 0 1 2 3	,
	8 6 [4] 7.8 8 7 No 79.4

Seedling Yellow Rust Resistance

	REGION	YIELD
	UK	102
	EAST	102
	WEST	102
	NORTH	100
	Untreated yield	97
	Light soils	102
ŀ	Heavy soils	101
F	First Cereal	101
	Second Cereal	102

#### **KWS ULTIMATUM (KWS ZYATT X COSTELLO)**

KWS Ultimatum is a new
variety for the Group 2
market in Autumn 2023.

Its parentage combines good grain quality with relatively stiff straw and good sprouting resistance.

With an untreated yield of 93%, KWS Ultimatum offers growers a good risk manager with flexibility of chemistry timings, aswell as various marketing options for the milling market with respectable premiums over feed.

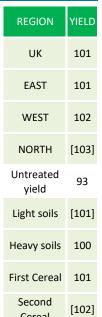
Further North, KWS Ultimatum rivals some of the feed varieties on yield such as Champion and Gleam.

Mildew	7				
Yellow Rust	9				
Brown Rust	6				
Eyespot	[5]				
Septoria Tritici	6.4				
Resistance to lodging (+PGR)	7				
Resistance to lodging (- PGR)	7				
OWBM	No				
Specific Weight	79.6				
Maturity	-2 -1 0	1	2	3	

Seedling Yellow

Rust Resistance

REGION	YIELD
LIIK	
UK	101
EAST	101
WEST	102
NORTH	[103]
Untreated yield	93
Light soils	[101]
Heavy soils	100
First Cereal	101
Second Cereal	[102]



# The ultimate wheat on-farm and for the market

## **KWS ULTIMATUM**

- Excellent resistance to sprouting and Fusarium
- High untreated yields supported by very good disease resistance



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SEEDING THE FUTURE **SINCE 1856** 



#### **KWS PALLADIUM (KWS ZYATT X KWS TRINITY)**

A new variety added to the AHDB Recommended List last season.

Very high untreated yield of 94% of control with short, stiff straw and good all-round disease resistance.

Can be drilled slightly earlier than KWS Extase and performs well as a 2nd wheat.

Excellent grain quality with milling potential, accepted by the millers as a Group 2 grade.

KWS Palladium is a great all-rounder which is suitable for earlier drilling with very stiff straw and good performance on heavier land.

10 <b>2</b> 17111 71	
Mildew	8
Yellow Rust	9
Brown Rust	5
Eyespot	[6]
Septoria Tritici	7.4
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	7
OWBM	No
Specific Weight	77.6
Maturity	-2 -1 0 1 2 3
Seedling Yellow Rust Resistance	Yes

REGION	YIELD
UK	100
EAST	99
WEST	101
NORTH	[99]
Untreated yield	94
Light soils	[98]
Heavy soils	98
First Cereal	100
Second Cereal	100

#### **MAYFLOWER (ASCOTT X ARMADA)**

Mayflower was new to	)
the market in Autumn	
2022.	

It has an excellent agronomic package with an untreated yield of 93%, Yellow Rust score of 9, and a Septoria Tritici rating of 8.9.

It offers increased marketing opportunites in comparison to some of the other Group 2 varieties, due to less protein dilution and ability to reach the 13% protein specification for milling grades.

Some recent nitrogen use efficiency trials suggest

Mildew	7
Yellow Rust	9
Brown Rust	6
Eyespot	[6]@
Septoria Tritici	8.9
Resistance to lodging (+PGR)	7
Resistance to lodging (- PGR)	6
OWBM	No
Specific Weight	79.2

REGION	YIELD
UK	97
EAST	97
WEST	98
NORTH	96
Untreated yield	93
Light soils	97
Heavy soils	96
First Cereal	97
Second Cereal	99

that when N levels are reduced, Mayflower's relative yield increases compared to other established varieties.

Seedling Yellow Yes Rust Resistance

Maturity -2 -1 0 1 2 3

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This season choose the lower input variety. It could just deliver a higher impact on your bottom line.

Speak to your seed merchant today about availability.





#### WINTER WHEAT GROUP 3

#### LG ASTRONOMER ((COUGAR X LEEDS) X BRITANNIA)

In our opinion, LG Astronomer is the best Group 3 on the market, with excellent grain quality and disease profile.

Can be drilled from 15th September - Mid Feb and performs well across all soil types.

Although a relatively tall variety, LG Astronomer is very stiff strawed.

There is concern around a lot of the soft wheat varieties due to the presence of Cougar in their parentage, and its breakdown in Septoria Tritici resistance over the last couple of seasons. It is a complex issue as not all varieties are affected to the same extent. At present, LG Astronomer is holding up its resistance to Septoria Tritici well in comparison to others.

Mildew	4					
Yellow Rust	9					
Brown Rust	8					
Eyespot	[5]					
Septoria Tritici	6.2					
Resistance to lodging (+PGR)	9					
Resistance to lodging (- PGR)	7					
OWBM	Yes					
Specific Weight	78.2					
Maturity	-2 -1	0	1	2	3	
Seedling Yellow Rust Resistance	Yes					

_	<i>1</i>	
	REGION	YIELD
	UK	99
	EAST	99
	WEST	99
	NORTH	97
	Untreated yield	88
	Light soils	99
	Heavy soils	100
	First Cereal	99
	Second Cereal	98



#### LG ILLUMINATE ((COUGAR X LEEDS) X BRITANNIA)

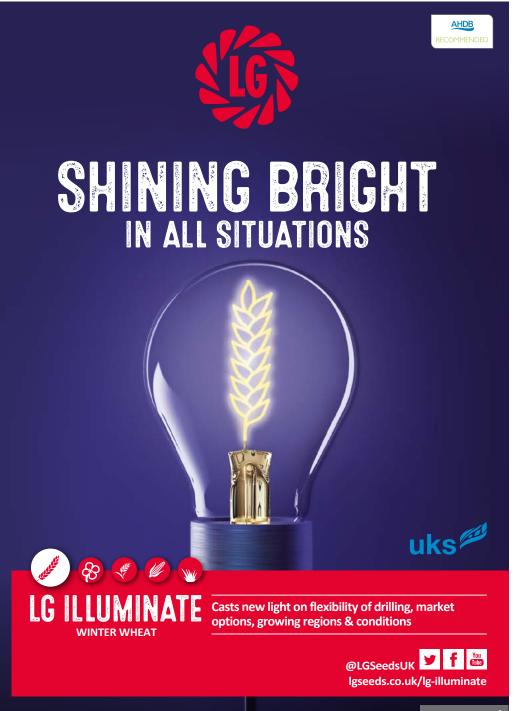
A sister variety to LG Astronomer which is slightly higher yielding and will drill slightly earlier.

LG Illuminate is one of the shorter wheat varieties on the market and is stiff strawed.

Solid all-round disease package and good resistance to sprouting.

Mildew	5			
Yellow Rust	7			
Brown Rust	6			
Eyespot	[6]			
Septoria Tritici	5.8			
Resistance to lodging (+PGR)	7			
Resistance to lodging (- PGR)	7			
OWBM	Yes			
Specific Weight	77.0			
Maturity	-2 -1 0	1	2	3
Seedling Yellow Rust Resistance	Yes			

REGION	YIELD
UK	100
EAST	100
WEST	100
NORTH	100
Untreated yield	87
Light soils	101
Heavy soils	100
First Cereal	100
Second Cereal	100



#### WINTER WHEAT GROUP 4 (SOFT)

#### **KWS ZEALUM (KWS BASSET X REFLECTION)**

KWS Zealum is NEW to the Group 4 Soft market this autumn.

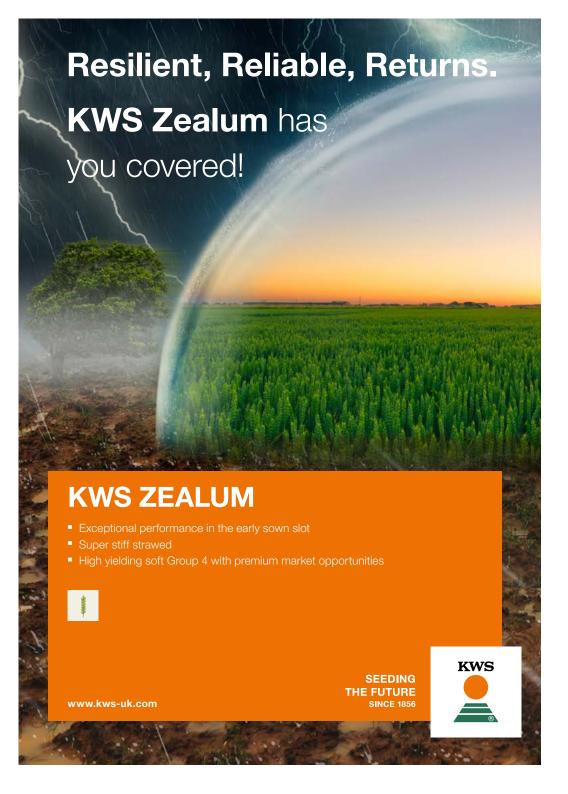
It is suitable for earlier drilling, stiff strawed and performs well on heavier land as well as good performance in the 2nd wheat position.

It is slightly later to mature with excellent sprouting resistance which is a big advantage the further North it is grown.

It has a good alcohol yield for the distilling market with attractive premiums over feed.

Mildew	7			
Yellow Rust	9			
Brown Rust	5			
Eyespot	[6]			
Septoria Tritici	5.8			
Resistance to lodging (+PGR)	8			
Resistance to lodging (- PGR)	6			
OWBM	Yes			
Specific Weight	76.7			
Maturity	-2 -1 0	1	2	3

REGION	YIELD
UK	103
EAST	103
WEST	103
NORTH	102
Untreated yield	86
Light soils	102
Heavy soils	104
First Cereal	103
Second Cereal	104



#### WINTER WHEAT GROUP 4 (SOFT)

#### LG SKYSCRAPER ((CASSIUS X NAWW 29) X KWS SANTIAGO)

LG Skyscraper has been on the RL since 2019 and has been one of the most popular varieties over the last few seasons with 10% market share in autumn 2022.

It has given consistently high yields across all regions and soil types. Performs particularly well on lighter land.

Excellent performance in both the first and second wheat slot.

It is a tall variety (92cm without PGR) but is stiff strawed.

LG Skyscraper has a high tillering capacity so is very competitive against grassweeds.

Mildew	7
Yellow Rust	7
Brown Rust	5
Eyespot	[6]
Septoria Tritici	4.9
Resistance to lodging (+PGR)	6
Resistance to lodging (- PGR)	6
OWBM	Yes
Specific Weight	77.3
Maturity	-2 -1 0 1 2 3

THAGO	
REGION	YIELD
UK	103
EAST	103
WEST	103
NORTH	102
Untreated yield	86
Light soils	103
Heavy soils	103
First Cereal	103
Second Cereal	104

#### RGT BAIRSTOW ((REVELATION X SANTIAGO) X COUGAR)

RGT Bairstow new to the RL last autumn, and is one of the highest yielding wheats on the market.

Performs well across all soil types and is a very good second wheat.

RGT Bairstow is later to mature which should be considered, but for those needing to spead the workload at harvest it is a useful variety.

It is a tall variety with average straw stiffness which is something to bear in mind on the heavier, more fertile land.

Mildew	6		
Yellow Rust	8		
Brown Rust	6		
Eyespot	[4]		
Septoria Tritici	6.0		
Resistance to lodging (+PGR)	6		
Resistance to lodging (- PGR)	6		
OWBM	Yes		
Specific Weight	76.8		
Maturity	-2 -1 0	1 2	2 3

JUAN	
REGION	YIELD
UK	103
EAST	103
WEST	103
NORTH	103
Untreated yield	87
Light soils	105
Heavy soils	104
First Cereal	103
Second Cereal	103



# **RGT BAIRSTOW**

Joint highest yielding soft wheat on the RL\*



Recommended List

- **⊘** Consistent performer
- ✓ Approved for distilling
- **⊘** Good disease ratings
- Wide sowing window and excels when drilled late
- **⊘** Excellent second wheat performance

+ Call us on **01799 533700**, or visit us at **ragtseeds.co.uk** 

\* Results base on yield performance across all UK regions.





#### **LG SPOTLIGHT (SCRIBE X HORATIO)**

LG Spotlight is a high yielding wheat which has given very consisent performance on farm over the last few years.

Exceptional grain qualityits good resistance to sprouting means it holds onto its HFN well in the field during challenging harvests.

LG Spotlight is tall but very stiff strawed. A reasonable disease package but needs watching for Yellow Rust.

In our opinion, LG Spotlight has been overshadowed by LG Skyscraper since making the RL in 2019 and is an under-valued variety on the market. Whilst it needs looking after for yellow rust, its on farm consistency and superb grain quality is hard to

Mildew	6			
Yellow Rust	5			
Brown Rust	6			
Eyespot	[5]			
Septoria Tritici	5.1			
Resistance to lodging (+PGR)	8			
Resistance to lodging (- PGR)	7			
OWBM	Yes			
Specific Weight	77.7			
Maturity	-2 -1 0	1 2	3	

REGION	YIELD
UK	102
EAST	101
WEST	103
NORTH	101
Untreated yield	77
Light soils	101
Heavy soils	102
First Cereal	102
Second Cereal	101



#### **CHAMPION (DSV20122 X REFLECTION)**

A new wheat in Autumn 2022, Champion is one of the highest yielding wheats on the market.

Performs very well on all soil types, particularly heavier land and is also a good second wheat (watch for eyespot in this slot).

Champion is a very clean variety with good disease scores all round.

It is relatively tall (88cm) so a good PGR program is advised and not to be drilled before midseptember.

Its vigorous growth habit makes it competitive against grassweeds.

Champion was a farm favourite for sowing last season and we expect it will be a popular choice again this autumn.

		_				
Mildew	7					
Yellow Rust	8					
Brown Rust	5					
Eyespot	[5]					
Septoria Tritici	8.1					
Resistance to lodging (+PGR)	6					
Resistance to lodging (- PGR)	6					
OWBM	Yes					
Specific Weight	75.5					
Maturity	-2 -1	0	1	2	3	
Seedling Yellow Rust Resistance	Yes					

REGION	YIELD
UK	106
EAST	107
WEST	106
NORTH	102
Untreated yield	93
Light soils	106
Heavy soils	107
First Cereal	106
Second Cereal	107

# WORLD CHAMPION

THE WHEAT TO BEAT



## 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

dsv-uk.co.uk

\* 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.

#### **KWS DAWSUM (KWS KERRIN X COSTELLO)**

Along with Champion, KWS Dawsum was a very popular variety last autumn with 16% market share and excellent yields.

Many of you will know its parents KWS Kerrin and Costello, combining excellent yield and grain quality as well as its suitability as a second wheat.

Suitable for early drilling from the 7th September onwards.

One of the shorter, stiff strawed varieties (84cm) making it a good choice on heavier land.

With a strong agronomic package, KWS Dawsum is a low risk variety and an excellent barn filler!

71	
Mildew	8
Yellow Rust	9
Brown Rust	7
Eyespot	[6]
Septoria Tritici	6.4
Resistance to lodging (+PGR)	7
Resistance to lodging (- PGR)	7
OWBM	No
Specific Weight	80.0
Maturity	-2 -1 0 1 2 3
Seedling Yellow Rust Resistance	Yes

REGION	YIELD
UK	104
EAST	103
WEST	105
NORTH	105
Untreated yield	95
Light soils	105
Heavy soils	104
First Cereal	104
Second Cereal	105

# Now that's a **special** combination!



## **KWS DAWSUM**

- Exceptional specific weight (80.0 kg/h
- Very high yield potential across all regions of the Uk
- Super flexible on farm with a wide sowing window



www.kws-uk.com

SEEDING THE FUTURE SINCE 1856

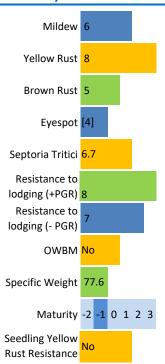


#### **GRAHAM (PREMIO X EXPERT)**

Graham has been on the RL since 2016 but still has a loyal following on farm due to its consistancy.

An excellent first wheat, suitable for early drilling with a very stable disease package and untreated yield of 93%.

Good grain quality and reasonably early to mature.



REGION	YIELD
UK	102
EAST	101
WEST	105
NORTH	102
Untreated yield	93
Light soils	102
Heavy soils	102
First Cereal	102
Second Cereal	102

#### **GLEAM (HEREFORD X KWS KIELDER)**

Despite being on the market since 2018, Gleam is still one of the most popular varieties on farm which held a respectable market share of 7% in autumn 2021.

Wide drilling window from 1st September - Mid February.

Gleam offers great flexibilty on farm due to its high yields and excellent performance in both the first and second wheat position.

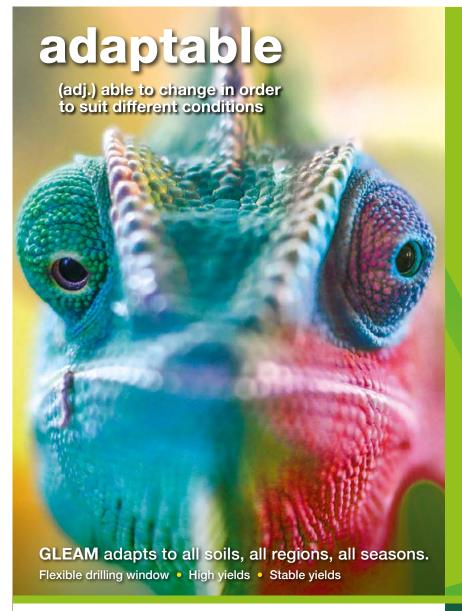
Good disease package with an untreated yield of 84% but needs watching for yellow rust.

Mildew	7					
Yellow Rust	5					
Brown Rust	6					
Eyespot	[5]					
Septoria Tritici	5.7					
Resistance to lodging (+PGR)	7					
Resistance to lodging (- PGR)	7					
OWBM	Yes					
Specific Weight	77.3					
Maturity	-2 -1	0	1	2	3	
Seedling Yellow	No					

Rust Resistance

REGION	YIELD
UK	103
EAST	103
WEST	104
NORTH	103
Untreated yield	84
Light soils	103
Heavy soils	103
First Cereal	103
Second Cereal	103

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#### WINTER WHEAT GROUP 4 (HARD)

#### KWS CRANIUM (KWS CRISPIN X KWS KIELDER)

KWS Cranium was added to the RL in for autumn 2021 and should not be overlooked by some of the higher yielding wheats.

With a double 8 for standing, KWS Cranium is the stiffest variety on the RL.

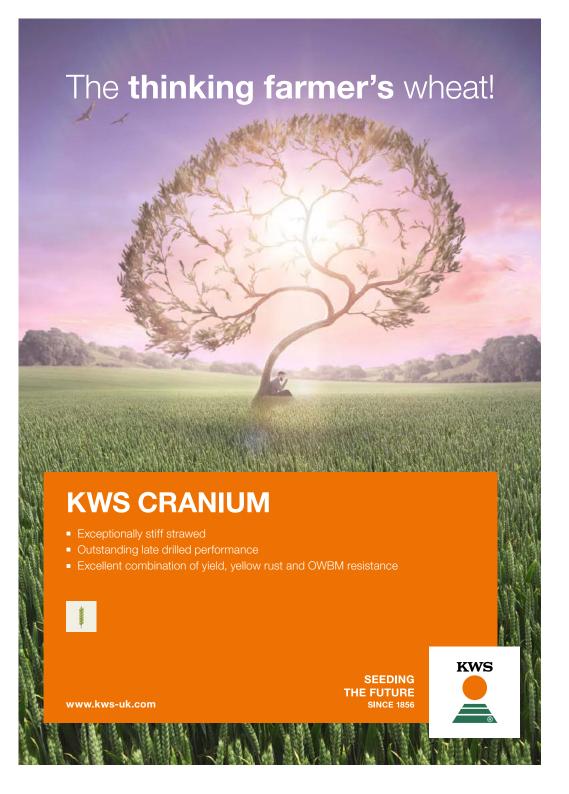
It performs exceptionally well in the later drilled slot - an ideal choice after later harvested crops such as potatoes.

Its fast speed of development and vigorous growth habit makes it very competitive against grassweeds.

A later maturing variety which helps spread the workload at harvest.

Mildew	6
Yellow Rust	9
Brown Rust	4
Eyespot	[5]
Septoria Tritici	5.9
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	8
OWBM	Yes
Specific Weight	75.8
Maturity	-2 -1 0 1 2 3
Seedling Yellow Rust Resistance	Yes

REGION	YIELD
UK	102
EAST	103
WEST	101
NORTH	102
Untreated yield	82
Light soils	103
Heavy soils	101
First Cereal	102
Second Cereal	103



#### **LG TYPHOON (LG GARUS X LGW88)**

LG Typhoon was new to the market last autumn and is an excellent allrounder which offers a low risk variety to have in the mix on farm.

It's slower growth habit in the autumn makes it suitable for early drilling, and it performs very well in the second wheat position.

LG Typhoon performs particularly well on lighter soils.

With an untreated yield of 92% and a rating of 7.3 for Septoria Tritici, LG Typhoon is a useful variety to have on farm for hard/feed wheat growers.

Mildew	6	
Yellow Rust	9	
Brown Rust	6	
Eyespot	[6]	
Septoria Tritici	7.3	
Resistance to lodging (+PGR)	7	
Resistance to lodging (- PGR)	7	
OWBM	Yes	
Specific Weight	77.1	
Maturity	-2 -1 0 1	2 3
Seedling Yellow	Voc	

Rust Resistance

REGION	YIELD
UK	101
EAST	101
WEST	100
NORTH	101
Untreated yield	92
Light soils	102
Heavy soils	100
First Cereal	100
Second Cereal	103



#### **COSTELLO (W151 X TIMARU)**

Like Graham, Costello has been on farm since 2015 but still remains a popular choice on farm.

Its solid disease resistance and superb grain quality, has given Costello many loyal growers and strong demand from end users.

Performs well across all soil types and stiff straw.

Whilst the market share of Costello is now diminishing, it still performs very well on farm and we are starting to see it being used in breeding programmes which have produced varieties such as KWS Dawsum and KWS Ultimatum.

Mildew	8
Yellow Rust	9
Brown Rust	5
Eyespot	[4]
Septoria Tritici	5.6
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	7
OWBM	No
Specific Weight	81.2
Maturity	-2 -1 0 1 2 3
Seedling Yellow Rust Resistance	Yes

REGION	YIELD
UK	99
EAST	99
WEST	98
NORTH	101
Untreated yield	86
Light soils	99
Heavy soils	99
First Cereal	99
Second Cereal	99

### WINTER OATS

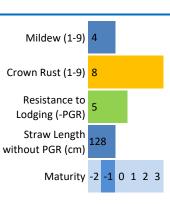
#### **RGT SOUTHWARK**

The highest yielding winter oat variety on the AHDB Recommended List.

Offers a good specific weight.

It is a tall strawed variety which needs watching but is early to mature and harvest.

It has very good resistance to the common strains of Crown Rust which contributes to its high untreated yield of 96% but it is susceptible to mildew.



REGION	YIELD
Breeder	RAGT
UK yield (% treated control)	104
Unt. yield (% treated control)	96
Kernel content (%)	72.6
Specific Weight (kg/hl)	53.9
Screenings (2.0mm)	6.0
Screenings (1.8mm)	N/A

#### **DALGUISE**

An early maturing variety with good specific weight and decent grain quality.

It is a tall variety with relatively weak straw so needs careful management.

Dalguise is susceptible to crown rust and mildew - a robust fungicide program is required for it to reach its full potential.

Mildew (1-9)	4						
Crown Rust (1-9)	4						
Resistance to Lodging (-PGR)	4						
Straw Length without PGR (cm)	12	7					
Maturity	-2	-1	0	1	2	3	

REGION	YIELD
Breeder	Senova
UK yield (% treated control)	101
Unt. yield (% treated control)	84
Kernel content (%)	70.9
Specific Weight (kg/hl)	54.7
Screenings (2.0mm)	3.6
Screenings (1.8mm)	N/A

#### **CROMWELL**

Cromwell is a NEW variety from Senova for Autumn 2023.

It is a Mascani cross which gives it a high specific weight and kernel content.

It has short, stiff straw but needs watching for mildew.

We hope Cromwell will attract demand from the millers, which will give growers a higher yielding option to Mascani but still producing the good grain quality which Mascani has been renowned for.

Mildew (1-9)	3					
Crown Rust (1-9)	5					
Resistance to Lodging (-PGR)	[8]					
Straw Length without PGR (cm)	10	3				
Maturity	-2	-1	0	1	2	

REGION	YIELD
Breeder	Senova
UK yield (% treated control)	102
Unt. yield (% treated control)	86
Kernel content (%)	74.9
Specific Weight (kg/hl)	55.3
Screenings (2.0mm)	5.2
Screenings	N/A

#### **MASCANI**

Mascani remains the most popular milling oat variety with strong demand from millers.

The highest kernel content of all varieties.

Very low screenings.

Mascani has the best all round disease package of all the husked winter oats.

Mildew (1-9)	6				
Crown Rust (1-9)	5				
Resistance to Lodging (-PGR)	6				
Straw Length without PGR (cm)	122				
Maturity	-2 -1	0	1	2	3

REGION	YIELD
Breeder	Senova
UK yield (% treated control)	95
Unt. yield (% treated control)	84
Kernel content (%)	75.7
Specific Weight (kg/hl)	53.5
Screenings (2.0mm)	2
Screenings (1.8mm)	N/A

## WINTER RYE

Brown Rust (1-9) 7

Straw Length (cm) 129

Maturity -2 -1 0

#### HYBRID WINTER RYE

#### **KWS TAYO**

The highest yielding hybrid rye variety on the market.

KWS Tayo is a multipurpose hybrid suitable for AD or grain.

Excellent stem stiffness with high straw yields.

Benefits from the KWS PollenPlus technology to minimise ergot infection.

Good Drought tolerance and high harvest index (grains/ear).

Seed Rates (seeds/m2):

Sept - 200-220 seeds/m2 Oct - 250+ seeds/m2

	REGION	YIELD
	Breeder	KWS
2 3	UK yield (% treated control)	104
	Protein (%)	9.1
	HFN	267
	Specific Weight (kg/hl)	77.0
	Wholecrop	

silage maturity

(% DM)

30-40

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## **KWS TAYO**

- Highest grain yielding rye on the AHDB Descriptive List
- New generation PollenPlus® hybrid with excellent stem
- Multi-purpose hybrid (AD or grain; feed, flour and distilling)



No.1

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#### HYBRID WINTER RYE

#### **KWS SERAFINO**

High yielding variety offering maximum performance for both wholecrop or grain production.

Multi-purpose variety suitable for both AD and grain.

Benefits from the KWS PollenPlus technology to minimise ergot infection.

Excellent stem stiffness and brown rust resistance.

Seed Rates (seeds/m2):

Sept- 200-220 seeds/m2

Brown Rust (1-9) 7	7	REGION	YIELD
Straw Length (cm) 1	131	Breeder	KWS
Maturity -	-2 -1 0 1 2 3	UK yield (% treated control)	101
		Protein (%)	9.1
		HFN	269
		Specific Weight (kg/hl)	77.3
		Wholecrop silage maturity	30-40

(% DM)



#### **SU PERFORMER**

SU Performer has been on the market since 2017 and is an established variety in the market.

It can be grown for either AD or grain production.

Good lodging resistance.

Brown Rust (1-9)	4				
Straw Length (cm)	130				
Maturity	-2 -1	0	1	2	

REGION	YIELD
Breeder	Saaten Union
UK yield (% treated control)	100
Protein (%)	9.2
HFN	245
Specific Weight (kg/hl)	77.9

Wholecrop

(% DM)

silage maturity

30-40



Mortimers Autumn Seed Brochure 2023 71 70 Mortimers Autumn Seed Brochure 2023

## OILSEED RAPE

#### **CONVENTIONAL OILSEED RAPE**

#### **ACACIA - CONVENTIONAL**

Acacia is the most popular conventional variety on the market at present, with good autumn and spring vigour.

It is a Anastasia cross which has attracted many traditional Anastasia growers over the last couple of seasons.
Suitable for drilling from end July - mid Septmber.

Consistent performance on farm with good yields and straw strength.

Light Leaf Spot (1-9)	6
Stem Canker (1-9)	6
TuYV Resistance	No
Pod Shatter Resistance	No
Earliness of flowering (1-9)	6
Earliness of maturity (1-9)	5
Recommended	All

Regions

AGRONOMIC DATA		
Breeder	LG	
UK Output (%)	101	
E/W Output (%)	101	
Lodging Resistance	8	
Plant Height (cm)	141	
Oil Content	45.0%	
RL status	2023/24	

#### **ANNIKA - CONVENTIONAL**

Annika was new to the market in Autumn 2022. It offers growers good yields with a strong disease package and TuYV resistance.

It is suited to earlier drilling than the Acacia, it can be drilled from mid-July through to mid-September.

Relatively early to flower but slightly later to mature with excellent stem stiffness.

Light Leaf Spot (1-9)	7
Stem Canker (1-9)	6
TuYV Resistance	Yes
Pod Shatter Resistance	No
Earliness of flowering (1-9)	6
Earliness of maturity (1-9)	4
Recommended Regions	All

AGRONOMIC DATA		
Breeder	LG	
UK Output (%)	101	
E/W Output (%)	101	
Lodging Resistance	8	
Plant Height (cm)	143	
Oil Content	45.0%	
RL status	2023/24	



Igseeds.co.uk/acacia



#### CONVENTIONAL OILSEED RAPE

#### **DK IMPRINT CL - CLEARFIELD**

DK Imprint is a clearfield variety with good agronomic characteristics, although there are some other higher yielding options.

Rapid autumn and spring vigour to help grow away from CSFB adult, larvae or any other threats.

Double Phoma and Pod

Shatter Resistance.

Light Leaf Spot (1-9)	6
Stem Canker (1-9)	7
TuYV Resistance	No
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	6
Earliness of maturity (1-9)	5
Recommended Regions	UK

AGRONOMIC DATA		
Breeder	Dekalb	
AHDB UK Output (%)	4.78t/ha	
Lodging Resistance	8	
Plant Height (cm)	153	
Oil Content	43.6%	
RL status	2023/24	

#### **MATRIX CL - CLEARFIELD**

Matrix CL is the most popular and highest yielding clearfield variety on the market.

It has good autumn vigour, relatively early to flower and strong lodging resistance.

With pod shatter resistance, RLM7+ resistance to stem canker and TuYV resistance, Matrix CL has an excellent overall agronomic package.

Light Leaf Spot (1-9)	6	
Stem Canker (1-9)	8	
TuYV Resistance	Yes	
Pod Shatter Resistance	Yes	
Earliness of flowering (1-9)	7	
Earliness of maturity (1-9)	5	
Recommended	UK	

Regions

AGRONOMIC DATA		
Breeder	DSV	
UK Output (%)	98	
E/W Output (%)	99	
Lodging Resistance	[8]	
Plant Height (cm)	152	
Oil Content	45.6%	
RL status	2023/24	

#### HYBRID OILSEED RAPE

#### **TURING - HYBRID**

Turing is NEW for autumn 2023 - it is joint highest for yield with Attica on the AHDB RL for 2023/24.

It is short and stiff with excellent standing power.

It is a very early flowering variety with good resistance to Light Leaf Spot but moderately susceptible to Stem Canker.

Good Verticilium Wilt resistance.

Light Leaf Spot (1- 9)	7	AGRO
Stem Canker (1- 9)	5	Breeder
TuYV Resistance	No	UK Outpu
Pod Shatter Resistance	No	E/W Outp (%)
Earliness of flowering (1-9)	8	Lodging Resistance
Earliness of maturity (1-9)	5	Plant Hei

AGRONOMIC DATA	
Breeder	LSPB
UK Output (%)	107
E/W Output (%)	107
Lodging Resistance	[8]
Plant Height (cm)	144
Oil Content	44.3%
RL status	2023/24

#### **ATTICA - HYBRID**

NEW for this autumn, Attica is joint top for gross output alongside Turing.

TuYV, RLM7 and pod shatter resistance.It has has good Verticilium Wilt resistance.

Good stem stiffness and lodging resistance. Early to flower but medium for maturity. Attica is another solid, all round performer out of the current Limagrain oilseed rape portfolio. It is suitable for drilling from beginning of August through to early

September.

Light Leaf Spot (1- 9)	7
Stem Canker (1- 9)	7
TuYV Resistance	Yes
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	7
Earliness of maturity (1-9)	5
Recommended Regions	All

Recommended

Regions

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	107
E/W Output (%)	107
Lodging Resistance	[8]
Plant Height (cm)	149
Oil Content	45.3%
RL status	2023/24



## **CRACK THE YIELD CODE**



TURING OILSEED RAPE

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#### HYBRID OILSEED RAPE

#### **VEGAS - HYBRID**

NEW for this autumn, Vegas is a high yielding hybrid with particularly good gross output in the East/West at 106%.

It is an early flowering variety with medium maturity and good stem stiffness.

Excellent all round disease resistance - Vegas has the NEW RImS phoma resistance gene making it the best variety for stem canker with a rating of 9.

Light Leaf Spot (1- 9)	8
Stem Canker (1-9)	9
TuYV Resistance	No
Pod Shatter Resistance	No
Earliness of flowering (1-9)	7
Earliness of maturity (1-9)	5
Recommended Regions	All

AGRONOMIC DATA	
Breeder	LSPB
UK Output (%)	105
E/W Output (%)	106
Lodging Resistance	[8]
Plant Height (cm)	144
Oil Content	45.3%
RL status	2023/24

#### **DK EXSTAR - HYBRID**

DK Exstar benefits from the Dekalb pod shatter resistance gene and Double Phoma Resistance.

Suitable for early drilling.

Rapid autumn and spring development to combat CSFB and larvae pressure.

Available on establishment scheme.
DK Exstar has proven itself on farm over the last few seasons with very consistent performance

Light Leaf Spot (19)	8
Phoma Resistance (1-9)	8
TuYV Resistance	No
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	6
Earliness of maturity (1-9)	6
Recommended Regions (Dekalb Data)	All

AGRONOMIC DATA	
Breeder	Dekalb
Dekalb Gross Output 2022	5.68 t/ha
Lodging Resistance	9
Plant Height (cm)	162
Oil Content	45.9%
RL status	No

**DK Exstar ESTABLISHMENT SCHEME** ED RAPE For reliability that really adds up choose DK Exstar • Class-leading phoma & light leaf spot resistance 8+8 • Exceptional lodging resistance & stem stiffness 9+8 • Ideal autumn and spring growth habit Rapid + Rapid The #DEKALBdifference in OSR The first choice for early drilling

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#### HYBRID OILSEED RAPE

#### **LG AUCKLAND - HYBRID**

LG Auckland is a high yielding hybrid variety which was added to the RL in Autumn 2022.

Good autumn vigour and fast to grow away in the spring - can be drilled from early August through to the end of Septmeber. It is early to flower and relatively early to mature.

Light Leaf Spot (1- 9)	7
Stem Canker (1-9)	7
TuYV Resistance	Yes
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	7
Earliness of maturity (1-9)	5
Recommended Regions	UK

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	106
E/W Output (%)	106
Lodging Resistance	[8]
Plant Height (cm)	150
Oil Content	45.3%
RL status	2023/24

LG Auckland benefits from the fully loaded traits from the Limagrain breeding program - TuYV, pod shatter and RLM7 phoma resistance genes.

#### **AMBASSADOR - HYBRID**

Ambassador has been on
the market since 2020
and is now one of the
most popular varieties
last autumn.

It has excellent autumn and spring vigour suited for drilling from mid August - mid September.

Ambassador benefits from the fully loaded traits from the Limagrain breeding program - TuYV, pod shatter and RLM7 phoma resistance genes.

BRID	
Light Leaf Spot (1- 9)	7
Stem Canker (1-9)	7
TuYV Resistance	Yes
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	7
Earliness of maturity (1-9)	6
Recommended Regions	UK

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	106
E/W Output (%)	106
Lodging Resistance	8
Plant Height (cm)	148
Oil Content	44.8%
RL status	2023/24



## DART from DSV – Right on target

DART – A significant step forward in DSV's reliable, simple to grow, high output oilseed rape varieties.

- High yield and impressive oil content.
- TuYV protection with good tolerance to Verticillium wilt.
- HarvestMax technology to minimise pre harvest seed losses.
- Low biomass variety for early maturity and easy harvest.

Source: AHDB Recommended List (E/W) 2023/24

Phone 01295 757003 www.dsv-uk.co.uk



#### HYBRID OILSEED RAPE

#### **DART - HYBRID**

Dart joined the RL in Autumn 2022, it is a high yielding variety with particularly good peformance in the East/West region.

Rapid autumn development and strong spring vigour which makes it suitable for later drilling if situations require.

Stiff strawed and good lodging resistance along with TuYV resistance. Dart also benefits from DSV's Harvest Max yield protection traits to reduce seed loss at harvest due to its long, large pod physiology.

Light Leaf Spot (1-9)	7
Stem Canker (1-9)	6
TuYV Resistance	Yes
Pod Shatter Resistance	No
Earliness of flowering (1-9)	7
Earliness of maturity (1-9)	5
Recommended Regions	East/West

AGRONOMIC DATA	
Breeder	DSV
UK Output (%)	102
E/W Output (%)	103
Lodging Resistance	[8]
Plant Height (cm)	145
Oil Content	45.2%
RL status	2023/24

#### **FLEMMING - HYBRID**

Flemming was new to the market in autumn 2022 as a hybrid for the East/West region offering high seed yield and oil content.

RImS resistance to stem canker and TuYV resistance.

Excellent disease resistance. Good stem stiffness and

resistance to lodging.

Light Leaf Spot (1 9)	7
Stem Canker (1-9)	8
TuYV Resistance	Yes
Pod Shatter Resistance	No
Earliness of flowering (1-9)	6
Earliness of maturity (1-9)	4
Recommended Regions	East/West

AGRONOMIC DATA	
Breeder	LSPB
UK Output (%)	101
E/W Output (%)	101
Lodging Resistance	[8]
Plant Height (cm)	151
Oil Content	44.5%
RL status	2023/24

#### **AURELIA - HYBRID**

Aurelia remains one of the most popular hybrids with very consistent performance on farm and high yields.

Excellent autumn and spring vigour to aid establishment and grow away from early season pest and disease pressure. Suitable for drilling from early August mid September.

Aurelia benefits from TuYV, pod shatter and RLM7 phoma resistance genes.

Light Leaf Spot (1- 9)	7
Stem Canker (1-9)	6
TuYV Resistance	Yes
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	7
Earliness of maturity (1-9)	5
Recommended Regions	All

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	105
E/W Output (%)	105
Lodging Resistance	8
Plant Height (cm)	145
Oil Content	44.9%
RL status	2023/24

#### **LG AVIRON - HYBRID**

LG Aviron is Limagrain's most vigorous variety with exceptional autumn and spring vigour.

Suited for drilling from 2nd week in August - end September.

TuYV, Pod Shatter and RLM7 phoma resistance aswell as Limagrain's N-Flex technology.

LG Aviron is early to flower and relatively early to mature.

Light Leaf Spot (1 9)	8
Stem Canker (1-9)	[7]
TuYV Resistance	Yes
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	8
Earliness of maturity (1-9)	6
Recommended Regions	All

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	105
E/W Output (%)	105
Lodging Resistance	[8]
Plant Height (cm)	150
Oil Content	44.4%
RL status	2023/24



## WINTER BEANS

#### **TUNDRA**

Despite being on the PGRO descriptive list since 2014, Tundra is a firm favourite for growers wanting to achieve export for human consumption.

Yield (% of control) 94

Earliness of maturity

Straw Length (cm) 105

Standing ability at harvest

A large seed size with a pale hilum.

A short plant with good standing ability.

Thousand Seed Weight (g) 607

Protein (% dry) 25.7

#### **VESPA**

Top of the PRGO Descriptive List 2023 for vield.

Slightly later to ripen than Tundra.

Suits both the feed and human consumption market with a good seed size.

Yield (% of control) 111

Earliness of maturity

Straw Length (cm) 115

Standing ability at harvest

Thousand Seed Weight (g)

Protein (% dry) 25.7



#combiningexcellenceinrapeseed

**OILSEED RAPE** 

www.lspb.eu



## The Winter Bean creating a real buzz!

With the highest yields on the PGRO Descriptive List, excellent standing ability and large grain, pale hilum variety Vespa is the perfect choice for your rotation and the feed and export markets.

## Winter beans - the perfect fit

Yield benefit for the following wheat crop

Low growing cost

Good break crop gross margin

Good opportunity to control grass weeds

Ready markets for feed and export use

Other Senova winter bean varieties:











Tel 01223 890777 • info@senova.uk.com • ¥ @SenovaLtd www.senova.uk.com

### SEED DRESSINGS

#### SINGLE PURPOSE



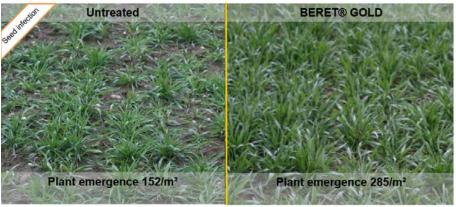
Beret Gold - Single purpose dressing for control of a range of seed and soil borne diseases in wheat, barley, oats, rye and triticale.

Active Ingredients: Fludioxonil

- · Beret Gold is our single purpose dressing for all wheat seed.
- Single purpose treated seed protects from seed borne diseases, reduces the impact of soil-borne pathogens, enhances crop establishment and lays the foundations to maximise crop yield and quality.
- Fludioxonil protects against seedling blight, snow mould, fusarium, foot and root rot, rhizoctonia, Septoria nodorum. bunt, seed and soil-borne common bunt.











Raxil Star – winter barley is a specialist fungicide seed treatment for winter barley (must not be planted between 1 February and 31 August). It protects your crop from a broad spectrum of seed-borne diseases, helping to ensure excellent establishment and improve crop performance and quality. Raxil Star is the best single purpose dressing for winter barley.

- Controls seed-borne net blotch, loose smut, leaf stripe and covered smut
- Reduces Fusarium and microdochium seedling blight and stem-base browning
- Optimises establishment
- · Allows retrieval of infected certified seed stocks

For more information on Raxil Star please see www.bayercropscience.co.uk



#### SPECIALIST DRESSINGS



Vibrance Duo – Winter wheat, winter barley, winter triticale, winter rye, spring barley, spring wheat and spring oats. Vibrance Duo is a fungicide SDHI-based (succinate dehydrogenase inhibitors) seed treatment for better establishment and rooting. Vibrance Duo offers an opportunity to give crops a vibrant start from outstanding control of key diseases, aiding rapid crop establishment with improved rooting.

Vibrance Duo has clear benefits for improving root growth, which combined with its excellent disease control, helps the crop achieve its full genetic potential.

#### Benefits include:

- Improved scavenging for soil moisture
- Improved uptake of nutrients
- More resilient plants to stress, pests and diseases
- · Maximised prospects for successful over-wintering
- Controls a broad spectrum of diseases that threaten crop establishment including Fusarium, Microdochium, Bunt, Loose Smut and Rhizoctonia
- Faster emergence
- SDHI sprays can still be applied sedaxane forms a protective zone around the seed, root and stem base in the soil zone
- · Low dust-off
- · Compatible to be co-applied with Latitude

#### For further information, please see: www.syngenta.co.uk/vibrance-duo



**Kinto Plus –** Winter wheat, winter barley, rye, triticale, oats. Active substances: Xemium 33.3g/L, fludioxonil 33.3g/L and triticonazol 33.3g/L

Kinto Plus was a new from BASF product for Autumn 2022, it offers a unique combination of three complimentary active ingredients which gives outstanding control of all major seed and soil-borne diseases which threaten crop establishment and seed quality. Comprehensive and long lasting efficacy against all seed borne seed diseases. Enhanced rooting and germination ensures better crop establishment. Optimal protection against all weather conditions. Securing yield potential.

In our opinion, Kinto Plus on winter barley is worth considering to aid crop emergence and establishment.

For further information on Kinto Plus, please see: www.agrcentre.basf.co.uk

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syngenta.

#### SPECIALIST DRESSINGS



#### **Latitude – winter wheat & barley**

125 g / litre (11.83% w/w) of Silthiofam. The only specialist takeall seed treatment:

- Maximises yield and quality wherever take-all is a problem
- Increases yield and quality of winter cereals
- Provides facility to drill second wheat earlier
- Improves nutrient and water uptake
- · Reduces take all
- Must be co-applied with a single purpose treatment

#### www.monsanto-ag.co.uk



#### Signal 300 ES - Winter wheat and winter barley

Active Substances: 300 g/l cypermethrin Signal 300 ES is an insecticide seed treatment, which by contact and ingestion, gives protection against wheat bulb fly and wireworm.

It is the only seed dressing available for the control of wheat bulb fly and wireworm after the loss of Austral Plus and provides a 'zone of protection' around the seed, improving crop establishment even under the most challenging of pest infestations. Signal 300 ES provides excellent coverage and distribution on the seed and is compatible with a range of fungicide seed treatments.

#### **NUTRITIONAL SEED DRESSINGS**

#### Where do nutritional seed dressings help?

- · Where soil or lead analysis has shown deficiency
- · High soil pH
- Soils with high organic matter/receive regular manure applications
- Sandy soils
- · Cold/Wet soils

#### Early season nutrient roles within plants

- · Phosphate Key for root and shoot development.
- · Manganese- Essential for chlorophyll synthesis and lignin production.
- · Copper Lignin synthesis and plant respiration.
- Zinc responsible for the utilisation of auxins which regulate plant growth and helps with disease tolerance.



**Manganese Trio** - suitable for all cereals, pulses, oilseed rape and maize.

Treating seed with Manganese is the most effective way to eliminate cereals from early season deficiency to aid plant emergence and crop establishment. It also gives flexibility for foliar autumn applications when field conditions are challenging and travelling is an issue.

Manganese Trio Seed Treatment Analysis

- 10% Soluble Manganese (Mn)
- 16.3% Sulphur Trioxide
- 1.0% Copper (Cu)
- 0.5% Zinc (Zn)





**Kick Off** – suitable for all cereals, pulses, oilseed rape and maize

Kick Off Seed Treatment Analysis

- · 180g/l Phosphate/Phosphite
- 80g/l Manganese
- 16q/l Zinc
- 20g/l Nitrogen
- 40q/l Potassium

Kick Off is a phosphate/phosphite based seed treatment which promotes both root and shoot development to aid plant emergence and establishment. Kick Off is suitable for all soil types and is particularly useful in later drilled situations and where seedbed conditions are challenging.

As well as seedbed conditions, soil pH has a big impact on nutrient availability. For example, the Yorkshire Wolds are renowned for their calcareous, chalky soils and naturally have a high soil pH. Subsequently, nutrients such as phosphate, manganese, copper and zinc are easily locked up from plant available forms, even if soil analysis results show adequate indices.

Applying these nutrients to your seed helps to eliminate early season deficiency, enhance plant emergence and build yield potential.



**Zest** - a phosphite based seed treatment for beans brought to market in 2021. Similar to Kick Off in cereals, it is a phosphite based dressing to aid early rooting. This product contains phosphite, potassium, sulphur, manganese, zinc, amino acids and molybdenum – an important nutrient for successful pollination.

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#### **NEW UPGRADED SEED TREATMENT WITH INCREASED AMINO ACIDS & VITAMINS**

- Kick-Off Plus aids emergence & healthy growth
- Encourages root interaction with beneficial soil microbes and fungi, improving nutrient uptake efficiency
- Increased amino acids + 8 key nutrients including phosphites, manganese & zinc
- Boosts root biomass and stress tolerance

For further details please speak to your Mortimer's contact

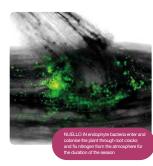




#### What is NUFLLO iN

NUELLO iN (endophytes) + Extender = NUELLO iN Seed Treatment





#### **NUELLO iN** benefit when nutrients become limiting:



clear rooting benefits, clear greening benefits, higher chlorophyll levels and reduced crop stress to extend the grain fill period

2022 was an extremely hot and

dry season. The main nitrogen

timing in both the winter wheat

and hybrid barley nitrogen trials

at our light land, Newark site was

applied during extremely dry April

weather limiting nitrogen uptake NUELLO iN treated plots displayed

NUELLO iN gave an average vield benefit of 0.5 t/ha in the winter wheat and 0.3 t/ha in the hybrid barley

#### When to use **NUELLO IN**

#### 1. Complement current nitrogen strategies:

Apply NUELLO iN to complement standard nitrogen applications as an additional source of N to enhance yields. A great insurance policy especially in situations when nutrients become limiting, for example, dry soil conditions limiting

#### 2. Manage nitrogen limiting situations:

Use NUELLO iN on soil types and in rotational positions where access to nitrogen from the soil may be limited. Trials have shown NUFLLO iN has an excellent yield benefit on light/shallow

#### 3. If synthetic N input reductions are planned

apply NUELLO iN to help maintain yield targets. Trials have shown NUELLO iN can replace up to 30 kg N/ha\*

Consult a FACTS Qualified Adviser for advice and guidance on nitrogen applications. Trials have shown NUELLO IN can replace up to 30 kg N/hs d on a reduction from the standard 100% nitrogen RB209 recommendation. RB209 recommendations are based on a break-ever ratio of 5.1 (cost of fertiliser nitrogen as £/kg N divided by value of grain as £/kg). Recommended not to reduce N in milling whealst to maintain % grain 1

Please do not hesitate in contacting Mortimers to arrange a visit to your farm to discuss individual requirements / objectives. Using the best seed treatment available is a sound investment, especially on varieties with specific weaknesses.

## **SMALL SEEDS**

We sell a full range of grass mixtures, game cover and environmental mixes – please get in touch to discuss your requirements.

#### **COMPANION CROPS**



**COVER CROPS** 





**GAME COVER** 





## **FERTILISERS**

To support your growing crops we sell a full range of fertilisers including:

- Nitrogen and Compounds
- Urea Blends
- · NPK Blends
- Straights
- Liquids















## **USEFUL CONTACTS**

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**Mortimers** 

13 Pexton Road, Kelleythorpe Industrial Estate, Driffield, East Yorkshire YO25 9DJ 01377 253314 www.jamesmortimer.co.uk



#### Official DEFRA & Advisory Seed Analysis

- · Seed Identification
- Germination full grow on or rapid tetrazolium viability
- · Vigour testing
- Purity
- · Thousand grain weight
- Screenings
- Stem Nematode

# INDEPENDENT SEED & GRAIN ANALYSIS

Official DEFRA licensed seed testing station

Tel: 01377 808 105

Unit 13, Pexton Road, Kelleythorpe Industrial Estate, Driffield YO25 9DJ

#### **Disease Analysis**

- Fusarium
- Loose Smut
- Bunt
- · Leaf Stripe
- Ascochyta
- Pea Bacterial Blight

#### **Grain Analysis**

- Moisture
- Protein
- Hagberg
- Gluten
- Admixture
- · Natural Weight
- Oil content
- Nitrogen
- Infestation
- Analysis of borage, Crambe and other oilseeds

#### **Mycotoxin Analysis**

• Don, Zon and Ochratoxin tests

www.agriculturallaboratoryservices.co.uk