

AUTUMN SEED BROCHURE 2022





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HARVEST 2022

Local, not national - Focused here, not "over there". Committed to independence and continuing to improve for the next generation. Mortimers.

A year of significant change and global strife which we can't control, requires a year of guaranteed local delivery from us.

Our investment in seed quality and an outstanding team speaks for itself. Equally important, as last year showed, is end-to-end control of seed production in the local area; from brilliant long-term, local growers, to our own haulage fleet and hugely experienced and committed drivers. This complete, local control of production will always be how we work, but in a tough year like last year it really showed its value, as we got everything on farm early whilst others failed.

We can't stand still, and this year we are investing in a new shed and lorry to improve delivery even further, and welcome a number of new faces to our growing team. We have also increased our planted area to give us more stock, and for the first time we have started high grade pre basic seed production for the breeders themselves. This is a real recognition of the standards and capability that we have now reached, and validates your decision to invest in quality seed when you deal with Mortimers.

On the topic of quality, all farm saved seed is cleaned to the same standards as our certified seed, with every grain passing through the colour sorter. To ensure the best quality possible.

A view over the hedge... 2022 sees the expansion of our hugely successful independent trials, being run at Beevers' Farm, at Cottam Warren. These remain

farm scale, honest assessments, to allow us all to scrutinise together, what works here, not "over there". We have also ripped up part of the car park and created some small scale ELMS trial plots at the office for when you pop in.

New, interesting varieties which have impressed us this year include the new highest yielding wheat on the Recommended List, Champion, which is a new Group 4 hard with an excellent disease package (and OWBM resistance). KWS Dawsum, also a Group 4 hard, is exciting for growers wanting a quality grain with excellent bushel weight. There are two new Group 1 Spring wheats available this year, included in our Autumn brochure because they can be drilled in late Autumn: Nissaba, can be drilled from the end of October and KWS Ladum from Mid November onwards. An option worth considering for some milling wheat growers. We also are exclusively selling the hybrid barley, SY Canyon, which is new on the Recommended List this year and is a real step on in terms of specific weight and grain quality in the hybrid market.

The world will continue to change and behave as unpredictably as it always has. As a team at Mortimers we remain committed to steadily and continually improving our capability, and remaining an independent, family-owned business focused on Yorkshire farmers and no one else, for the next generation.

Thank you for your ongoing support and we look forward to doing business in the coming Harvest 2022 season, and hope to see you in person at the office as we used to before covid. Welcome back.

From all at Mortimers.

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.

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MORTIMERS COMMERCIAL CLEANING

During 2022, 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 2022

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:

BARLEY'S:

Malting: Craft, SY Vessel

2-Row Feed: KWS Tardis, Valerie, KWS Hawking, KWS Orwell, KWS Cassia, LG Dazzle, LG Caiman, KWS Ferris

Hybrid: SY Kingsbarn, Bazooka, SY Canyon

WHEATS:

Group 1: Skyfall, Crusoe, KWS Zyatt

Group 2: KWS Extase, KWS Siskin, KWS Palladium

Group 3 Soft: KWS Firefly, LG Astronomer, LG Illuminate

Group 4 Soft: LG Skyscraper, RGT Saki, LG Spotlight, RGT Bairstow

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

Costello, Theodore, 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



ERGOTRisk to health and grain rejections



LOOSE SMUT Higher risk sowing untreated seed



MICRODOCHIUM NIVALE Causes significant reduction in crop establishment

THE FORGOTTEN BARLEY DISEASES

Why do we use seed treatments?



LOOSE SMUT Higher risk from growing repeatedly farm saved, untreated seed



ERGOTRisk to health and grain rejections



LEAF STRIPECan build up rapidly in repeatedly homesaved seed



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 MALTING BARLEY CHOICE...

Craft

Reliable on farm performance and demand from end-users.

TOP YIELDERS

KWS Tardis

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

> **Valerie KWS Cassia**

Bold grain Good straw quality.

CONSISTENT PERFORMERS...

KWS Orwell KWS Hawking Valerie KWS Cassia

MARKET LEADERS FROM AUTUMN 2021

> **SY Kingsbarn KWS Orwell KWS Hawking**

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

OUR PICK OF THE HYBRIDS FOR **AUTUMN 2022**

SY Canyon

BEST HYBRID PERFORMER ON HEAVY LAND...

SY Thunderbolt



WINTER BARLEY



Winter barley 2022/23

Market options, yield and grain quality



RECOMMENDED	Electrum	Craft	(WS Tardis	Bolton	ightning	Sordeaux	Dazzle	G Mountain
Fad use seems		v malting	Ş	8		å	<u>O</u>	
End-use group Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	ow feed UK
Variety status	C	C	OK	OK	NEW	OK	NEW	C
Fungicide-treated grain yield (% treated control)								
United Kingdom (9.8 t/ha)	96	95	105	104	104	103	103	102
East region (9.6 t/ha)	96	95	106	105	104	105	104	103
Untreated grain yield (% treated control)								
United Kingdom (9.8 t/ha)	78	78	85	84	88	81	87	82
Main market options								
MBC malting approval for brewing use	F	F	_	_	_	_	_	_
Grain quality								
Specific weight (kg/hl)	70.0	70.1	70.2	69.5	68.6	70.7	68.9	70.5
Screenings (% through 2.25 mm)	2.0	2.0	1.4	1.3	1.9	0.9	1.8	1.9
Screenings (% through 2.5 mm)	5.9	6.2	4.3	4.2	5.6	2.7	5.4	6.0
Nitrogen content (%)	1.73	1.67	-	-	-	-	-	-
Agronomic features								
Resistance to lodging without PGR (1–9) - see note below	7	7	8	7	[6]	7	[7]	6
Resistance to lodging with PGR(1–9) - see note below	7	8	8	8	6	8	7	6
Straw height without PGR (cm)	97	97	95	95	[92]	94	[92]	92
Straw height with PGR (cm)	90	88	86	83	88	85	85	83
Ripening (+/-KWS Orwell, -ve = earlier)	-1	0	0	0	0	0	0	-1
Disease resistance								
Mildew (1–9)	6	6	5	6	7	6	6	5
Brown rust (1–9)	7	7	6	6	8	6	8	7
Rhynchosporium (1–9)	6	6	7	5	6	4	7	6
Net blotch (1–9)	5	6	[5]	[5]	[5]	[5]	[4]	5
BaYMV	R	R	R	R	R	R	R	R
Breeder/UK contact								
Breeder	SyP	SyP	KWS	Ack	Ack	NS	Lim	LimEur
UK contact	Syn	Syn	KWS	ElsAck	ElsAck	Sen	Lim	Lim
Soil type (about 50% of trials are medium soils)		,						
Light soils (9.5 t/ha)	95	96	103	104	102	103	102	102
Heavy soils (9.5 t/ha)	97	93	109	105	102	104	105	103
Agronomic characteristics								
Lodging without PGR (%)	6	3	2	4	[12]	3	[5]	8
Lodging with PGR (%)	5	2	1	1	10	1	5	6
Brackling (%)	12	11	7	10	11	10	8	27
Status in RL system								
Year first listed	18	16	21	21	22	21	22	19
	10	10						1.0

						25-					9
	D					=	#	46			(2)
	Ř	<u></u>		SS		gerç	barı	# 6	#	S	LSC
	Ŧ	6	<u>e</u> .	Ö		를	ings	any	8	T.	age
	KWS Hawking	KWS Orwell	/alerie	KWS Cassia		SY Thunderbolt #	SY Kingsbarn #	SY Canyon #	Bazooka #	KWS Feeris	Average LSD (5%)
	· ·	The second second		· ·		()	" s	ix-row fee	d	· ·	•
	UK	UK	UK	UK		UK	UK	UK	UK	Sp	
								NEW	С	NEW	
	101	100	99	97		107	106	106	104	103	2.7
	102	100	100	97		106	106	105	104	103	3.2
	81	80	82	81		87	84	89	84	84	5.0
1	-	-	-	-	_	-	-	-	-	-	
					_						
	69.4	68.8	70.9	72.1	_	70.5	70.4	71.2	70.0	69.5	0.8
	1.8	1.6	0.4	1.2		1.8	1.4	1.8	2.2	0.7	0.7
	5.6	4.9	1.0	3.5		7.2	5.7	6.4	7.7	3.7	1.8
	-	-	-	-			-	-		1.75	0.20
					_					1.70	0.20
,	-	-	-	-	_	-		(7)		[0]	
	7	7 8	7	7		5	6	[7]	6	[8]	1.4
	8		8	7		5	7	5		7	1.0
	94	93	94	96		114	112	[118]	117	[102]	3.9
	85	85	86	89		104	103	106	107	95	2.7
	1	0	-1	1		-1	0	-1	0	0	1.1
	5	3	6	5		8	7	8	5	4	1.2
	6	7	5	7		6	5	6	5	5	1.0
	6	6	6	5		6	5	6	6	6	1.4
	6	5	[6]	5		[6]	5	[5]	5	[6]	1.2
	R	R	R	R		R	R	R	R	R	-
	KWS	KWS	Bre	KWS		SyP	SyP	SyP	SyP	KWS	
	KWS	KWS	Sen	KWS		Syn	Syn	Syn	Syn	KWS	
	99	99	99	97	Т	103	105	105	104	101	3.6
	104	100	[99]	98		107	104	105	104	104	5.9
1	3	3	3	5	_	20	12	[6]	8	[1]	_
	1	2	2	4		16	5	15	6	4	_
	6	9	6	10		17	15	11	12	9	_
1	20	16	19	10	_	21	19	22	16	22	

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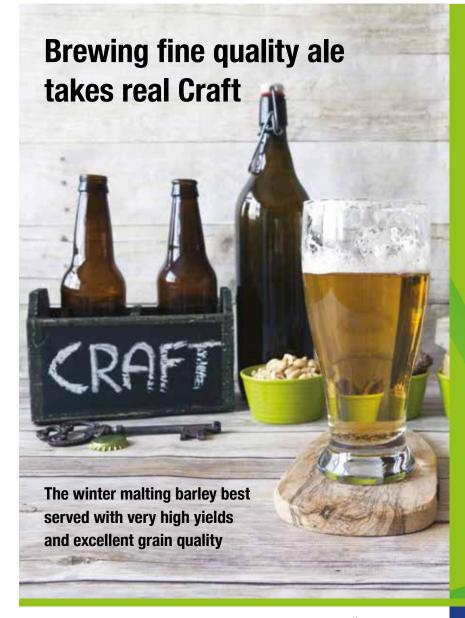
WINTER BARLEY - MALTING

CRAFT (SY 208-56 X SY VENTURE)

•					
Craft remains the most popular winter malting variety with strong demand from the maltsters.	Mildew	6		REGION	YIELI
	Brown Rust	7		UK	95
	Rhynchosporium	6		EAST	95
Good grain quality and	Net blotch	6		WEST	94
overall disease package.	Resistance to lodging (+PGR)	8		NORTH	96
Many growers achieve very good yields with	Straw Height (+PGR)	88.0		Untreated yield	78
Craft despite its offcial yield figures reading	Specific Weight (kg/hl)	70.1		Light soils	96
lower than many other 2- row varieties.	Maturity	-2 -1 0 1	2	Heavy soils	93

SY VESSEL

SY Vessel is a specialist Mildew 5 winter malting barley which has strong demand Brown Rust 6 from local maltsters due to its ability to both brew Rhynchosporium 5 and distill. SY Vessel attracts a larger Net blotch 7 premium than other UK Treated Yield 95.0 winter malting barley varieties. For more information on **UK Untreated Yield** SY Vessel please give us a Specific Weight 71.1 ring. (kg/hl) Maturity -2 -1 0 1 2









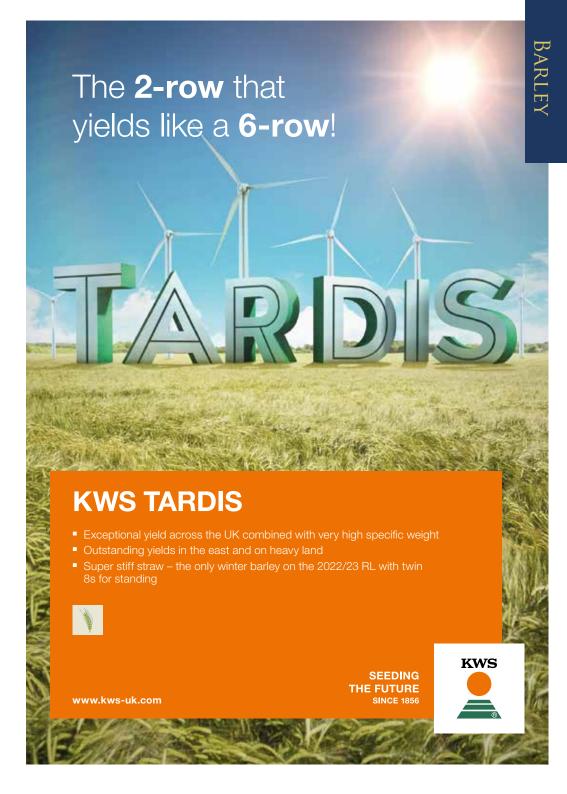
WINTER BARLEY FEED – 2 ROW CONVENTIONAL

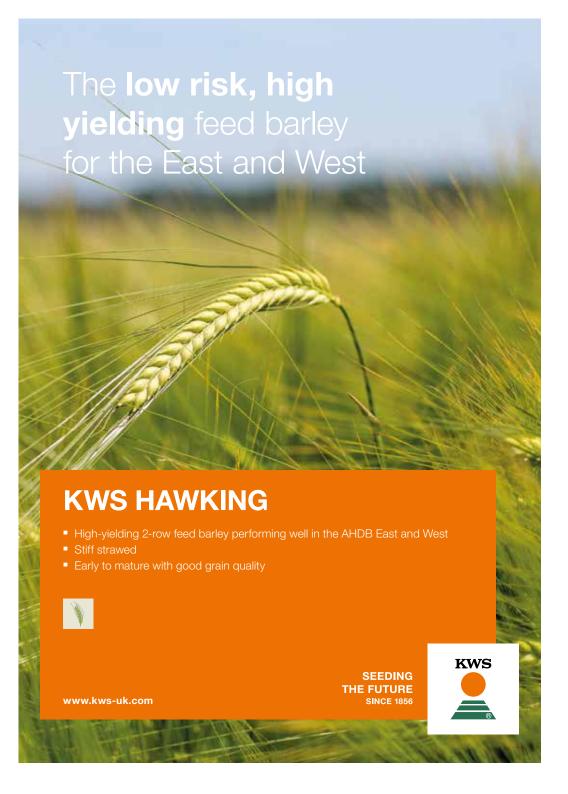
KWS TARDIS - (11-12 X KWS ORWELL)

New to the market last autumn, KWS Tardis is the	Mildew	Mildew 5					
highest yielding 2-row variety on the market.	Brown Rust	6				UK	105
Excellent grain quality, stiff strawed and good	Rhynchosporium	7				EAST	106
agronomics - KWS Tardis is a step on for the	Net blotch	[5]				WEST	104
traditional KWS Cassia and KWS Orwell growers.	Resistance to lodging (+PGR)	8				NORTH	104
Last year, our seed crop of	Straw Height (+PGR)	Untreated yield	85				
KWS Tardis was the best barley sample we had through the lab with a	Specific Weight (kg/hl)	70.2				Light soils	103
bushel weight of 71.2.	Maturity	-2 -1	0 1 2	2		Heavy soils	109

KWS HAWKING ((11-12 X CALIFORNIA) X KWS TOWER)

barley which was the successor to KWS Orwell. Good disease package and performs well on One of best varieties for brackling resistance. KWS Hawking had 10% of the UK market share in autumn 2021. Specific Weight (kg/hl) Brown Rust 6 UK 101 EAST 102 WEST 101 WEST 101 WEST 101 NORTH 99 Untreated yield 81						
Successor to KWS Orwell. Good disease package and performs well on One of best varieties for brackling resistance. KWS Hawking had 10% of the UK market share in autumn 2021. Specific Weight (kg/hl) Brown Rust 6 UK 101 EAST 102 WEST 101 WEST 101 NORTH 99 Untreated yield 81	0, 0	Mildew	5		REGION	YIELD
and performs well on One of best varieties for brackling resistance. KWS Hawking had 10% of the UK market share in autumn 2021. Specific Weight (kg/hl) Rhynchosporium 6 EAST 102 WEST 101 WEST 101 NORTH 99 Untreated yield 81	•	Brown Rust	6		UK	101
brackling resistance. KWS Hawking had 10% of the UK market share in autumn 2021. Specific Weight (kg/hl) Net blotch 6 WEST 101 NORTH 99 Untreated yield 81 Light soils 99		Rhynchosporium	6		EAST	102
the UK market share in autumn 2021. Iodging (+PGR) 8		Net blotch	6		WEST	101
autumn 2021. Straw Height (+PGR) Specific Weight (kg/hl) 69.4 Light soils 99	•		8		NORTH	99
(Kg/ni)		(+PGR)				81
Maturity -2 -1 0 1 2 Heavy soils 104		Specific Weight (kg/hl)	69.4		Light soils	99
		Maturity	-2 -1 0 1	2	Heavy soils	104





WINTER BARLEY FEED – 2 ROW CONVENTIONAL

KWS CASSIA ((EDEN X CARAT) X SAFFRON)

Despite 12 years on the market, KWS Cassia still has the highest specific weight on the 2022/23 RL.	Mildew	5		REGION	YIELD
	Brown Rust	7		UK	97
	Rhynchosporium	5		EAST	97
Consistent yields, bold grain and low screenings keep KWS Cassia a very	Net blotch	5		WEST	98
	Resistance to lodging (+PGR)	7		NORTH	96
popular variety on farm.	Straw Height (+PGR)			Untreated yield	81
Good quality straw and solid disease package.	Specific Weight (kg/hl)	72.1		Light soils	97
	Maturity	-2 -1 0 1	2	Heavy soils	98



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 had 13% of the UK market in autumn 2021.

Its consistent performance has gained KWS Orwell a loyal following but we are expecting KWS Tardis to take some of its market share this autumn.

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

					,	
Mildew	3					
Brown Rust	7					
Rhynchosporium	6					
Net blotch	5					
Resistance to lodging (+PGR)	8					
Straw Height (+PGR)	85.0					
Specific Weight (kg/hl)	68.8					
Maturity	-2 -1	0	1	2		

REGION	YIELD
UK	100
EAST	100
WEST	101
NORTH	99
Untreated yield	80
Light soils	99
Heavy soils	100

VALERIE - 2 ROW (207-589 X SANDRA)

Valerie is known for its big bold grain and low screenings - a natural successor to KWS Cassia due to its higher yield.

Excellent lodging and brackling resistance with stiff straw.

One of the earliest feed barley's to mature. A good overall disease package - needs watching for Brown Rust.

An all round good farmers barley, ideal for those feeding their own grain on farm.

Mildew	6					
Brown Rust	5					
Rhynchosporium	6					
Net blotch	6					
Resistance to lodging (+PGR)	8					
Straw Height (+PGR)	86.	.0				
Specific Weight (kg/hl)	70.	.9				
Maturity	-2	_1	n	1	2	

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

senova

AHDB

With superb grain quality, low screenings, high yields,

early ripening and stiff straw, Valerie has all of the

desired attributes and is a real competitor in the market.

WINTER BARLEY

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



WINTER BARLEY - HYBRID

SY CANYON - HYBRID

SY Canyon is a new hybrid to the market for autumn	Mildew	8	REGI
2022 which Mortimers have exclusive access to.	Brown Rust	6	UK
	Rhynchosporium	6	EAST
It is very high yielding with the best grain quality	Net blotch	[5]	WEST
of all the hybrid varieties with a specific weight of	Resistance to lodging (+PGR)	–	NOR
71.2.	Straw Height (+PGR)	106.0	Untre yield
SY Canyon has the highest untreated yield of all the	Specific Weight (kg/hl)	71.2	Light

It is one of the earlier maturing hybrid varieties well worth a try this autumn if you are a hybrid barley grower!

hybrids of 89%.

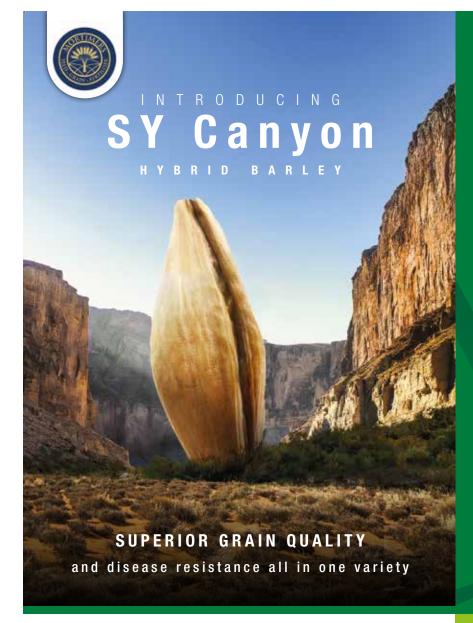
UK	106
EAST	105
WEST	[108]
NORTH	105
Untreated yield	89
Light soils	105
Heavy soils	105

YIELD

SY THUNDERBOLT - HYBRID

New to the market in	Mildew	8	REGION	YIELD
autumn 2021, SY Thunderbolt is the highest yielding hybrid barley	Brown Rust	6	UK	107
variety.	Rhynchosporium	6	EAST	106
Performs particularly well on heavier land.	Net blotch	[6]	WEST	108
Good disease ratings with	Resistance to lodging (+PGR)	5	NORTH	106
and Rhyncosporium.	Straw Height (+PGR)	104.0	Untreated yield	87
Early to mature to provide	Specific Weight (kg/hl)	70.5	Light soils	103
flexibility at harvest.	Maturity	-2 -1 0 1 2	Heavy soils	107

Maturity -2 -1 0 1 2









WINTER BARLEY - HYBRID

SY KINGSBARN - HYBRID

SY Kingsbarn is the leading hybrid barley variety with with 13% UK market share of the total barley market in autumn 2021.

A good all-rounder that perfomrs well on all soil types.

High yields, good grain quality and disease package.

Competitive growth habit good for grassweed suppression.

Mildew	7					
Brown Rust	5					
Rhynchosporium	5					
Net blotch	5					
Resistance to lodging (+PGR)	7					
Straw Height (+PGR)	10	3.0				
Specific Weight (kg/hl)	70	.4				
Maturity	-2	-1	0	1	2	

REGION	YIELD
UK	106
EAST	106
WEST	107
NORTH	106
Untreated yield	84
Light soils	105
Heavy soils	104

BAZOOKA - HYBRID

Bazooka is one of the older hybrid barley's on	Mildew	5			REGION	YIELD
the market but still performs very well on	Brown Rust	5			UK	104
farm.	Rhynchosporium	6			EAST	104
The best hybrid for grassweed suppression.	Net blotch	5			WEST	104
	Resistance to lodging (+PGR)	0			NORTH	104
It has reasonably stiff straw but requires a	Straw Height (+PGR)				Untreated yield	84
careful PGR program to manage its height.	Specific Weight (kg/hl)	70			Light soils	104
	Maturity	-2 -1 0	1 2		Heavy soils	104



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

CHOOSING VARIETIES TO SPREAD HARVEST WORKLOAD

Early to harvest:
KWS Parkin
KWS Extase
KWS Palladium
Graham

Later to harvest:

RGT Saki Costello KWS Cranium

WHICH VARIETIES CAN I DRILL FROM EARLY SEPTEMBER?

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

Champion

Highest yielding wheat on the market with an excellent disease package and vigorous growth habit – a great barn filler!

KWS Dawsum

The second highest yielding wheat on the RL, suited to early drilling and excellent grain quality.

GOOD 2ND WHEAT OPTIONS:

LG Skyscraper Gleam KWS Cranium KWS Palladium RGT Gravity WHICH VARIETIES GIVE ME THE MOST FLEXIBILITY FOR LATE DRILLING?

Skyfall
LG Astronomer
LG Illuminate
LG Spotlight
KWS Cranium
Gleam
RGT Gravity
Champion

TOP PICKS FOR
FEED VARIETIES WITH
EXCELLENT GRAIN
QUALITY

Costello
LG Spotlight
LG Astronomer
KWS Dawsum

WHICH VARIETIES OFFER ME THE BEST GENETIC DISEASE RESISTANCE?

> KWS Extase KWS Palladium Champion Graham

TOP YIELDERS:

Champion KWS Dawsum LG Skyscraper RGT Saki Gleam

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WINTER WHEAT



Winter wheat 2022/23

Market options, yield and grain quality

AHI	OB	
COMM	EN	DED

RECOMMENDED	KWS Zyatt	Skyfall	Crusoe	KWS Extase	KWS Palladium	Mayflower	KWS Guium	LG Prince	KWS Brium	KWS Firefly
End-use group	Uł	(FM Grou		U	KFM Grou	ıp 2			UK	FM Group
Fungicide-treated grain yield (% treated control)										
United Kingdom (10.8 t/ha)	98	97	96	101	100	97	102	101	100	100
East region (10.7 t/ha)	98	97	96	100	99	98	102	102	101	101
Grain quality										
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft
Protein content (%)	12.2	12.2	12.7	11.9	11.8	11.9	11.3	11.1	11.5	11.7
Protein content (%) - Milling spec	13.1	13.2	13.5	12.7	[13.1]	[12.9]	[12.0]	11.9	[12.3]	12.6
Hagberg Falling Number	260	273	274	289	315	294	255	253	268	240
Specific weight (kg/hl)	77.5	78.3	77.8	78.5	76.9	78.5	78.1	74.0	77.3	75.3
Chopin Alveograph W	[175]	[251]	230	190	[179]	198	[56]	[71]	[74]	90
Chopin Alveograph P/L	[0.7]	[0.9]	0.6	0.6	[0.6]	0.7	[0.3]	[0.2]	[0.3]	0.3
Agronomic features										
Resistance to lodging without PGR (1–9) - see note below	8	8	8	7	7	6	7	7	7	8
Resistance to lodging with PGR (1–9) - see note below	8	8	7	8	8	7	7	8	7	8
Height without PGR (cm)	85	84	82	90	84	89	90	83	92	83
Ripening (days +/- Skyfall, -ve = earlier)	0	+0	+1	-1	-1	-0	+3	+2	+2	+1
Resistance to sprouting (1–9)	5	5	6	[7]	-	-	-	[6]	-	[6]
Disease resistance										
Aildew (1–9)	7	6	7	7	8	8	5	4	7	5
'ellow rust (1–9)	4	3	9	8	9	9	9	8	9	6
Brown rust (1–9)	6	8	3	7	5	6	3	7	5	5
Septoria tritici (1–9)	6.1	5.3	6.2	7.8	7.4	8.4	4.7	6.4	5.4	5.7
Septoria tritici (1–9) - one-year rating	5.8	5.1	5.9	7.3	7.2	8.2	5.0	5.8	5.6	4.9
Eyespot (1–9)	6@	7@	5	3	[6]	[6]@	[4]	5	[6]	3
susarium ear blight (1–9)	6	7	7	6	6	6	7	6	6	5
Orange wheat blossom midge	-	R		-	-	-	R	R		R
Breeder/UK contact										
Breeder	KWS	RAGT	Lim	Mom	KWS	ElsW	KWS	LimEur	KWS	KWS
JK contact	KWS	RAGT	Lim	KWS	KWS	Els	KWS	Lim	KWS	KWS
Rotational position										
First cereal (11.1 t/ha)	98	96	96	101	100	97	[103]	100	100	100
Second and more (9.6 t/ha)	99	98	94	101	100	99	101	103	101	101
Sowing date (most trials were sown in October)										
Early sown (before 25 Sept) (11.3 t/ha)	[100]	96	96	[[97]]	-	-	[103]	102	[101]	101
ate sown (after 1 Nov) (9.2 t/ha)	98	97	95	102	[99]	[95]	[101]	101	[101]	101
Soil type (about 50% of trials are on medium soils)										
ight soils (10.9 t/ha)	97	97	94	102	[98]	[97]	[101]	102	[100]	100
Heavy soils (10.9 t/ha)	99	97	97	100	98	97	102	101	99	101
Agronomic features										
odging % without PGR	2	1	2	4	4	8	3	5	3	1
odging % with PGR	1	3	3	2	2	6	4	3	5	1
atest safe-sowing date ¤	End Jan	End Feb	End Jan	End Jan	[[Mid Feb]]	[[Mid Feb]]	[[Mid Feb]]	[End Jan]	[[End Feb]]	End Feb
Speed of development to growth stage 31 (days +/- a	verage)									
Early sown (Sept)	-2	-2	-1	-4	[-2]	[-4]	[+2]	[-2]	[+2]	-2
Med sown (Oct)	-4	-4	-2	-7	-	-	-	[-1]	100	-3
Late sown (Nov)	-2	-2	+0	-4	-	-	[0]	[+1]		-1
Status in RL system										

RGT Rashid	LG Illuminate	LG Astronomer	RGT Bairstow	LG Skyscraper	RGT Saki	RGT Stokes	LG Spotlight	Champion	KWS Dawsum	Gleam	KWS Cranium	Graham	RGT Gravity	Costello	Average LSD (5%)
				3	oft Grou	p 4				Har	d Group	4			ı
100	100	400	400	100	400	100	100	100	101	100	100	400	101	400	
100 102	100 100	100 100	103 103	103 103	103 103	102 101	102 101	106 107	104 103	103 103	102 102	102 100	101 102	100 99	2.3
102	100	100	103	103	103	101	101	107	103	103	102	100	102	99	2.0
					-										
Soft 11.1	Soft 11.8	Soft 11.7	Soft 11.2	Soft 11.3	Soft 11.4	Soft 11.3	Soft 11.3	Hard 11.4	Hard 11.2	Hard 11.2	Hard 11.2	Hard 11.3	Hard 11.3	Hard 11.8	0.2
[11.8]	12.7	12.6	[12.2]	12.2	12.2	[12.5]	12.1	[12.4]	[12.1]	12.0	12.0	11.9	12.0	12.7	0.5
226	249	232	228	214	220	248	286	239	304	220	279	275	193	322	25.6
76.4	76.2	77.4	75.9	76.5	75.6	75.3	77.7	74.8	79.4	76.3	75.1	76.9	75.6	80.6	0.6
[72]	82	[132]	[50]			[61]	-								25.1
[0.3]	0.3	[0.4]	[0.3]	-	-	[0.3]	-	-	-		-			-	0.2
8	7	7	6	6	6	5	7	6	7	7	8	7	6	8	1.1
8	7	9	6	6	7	7	8	7	7	7	8	8	7	8	1.0
86 +3	83 +1	88	91	92 +0	88 +3	91 +2	93 +1	88 +0	84 +1	87 -0	89 +3	88	89 +1	83 +2	1.7 0.7
+3	[7]	+1 [7]	-	[5]	[6]	+2	[7]	+0	*1	-0 5	[6]	-1 7	5	6	1.3
-	[/]	[/]		[0]	[O]		[/]	-		3	[o]	- '	3	0	1.3
				_			-	_				_			
4 8	5 7	4 8	6 7	7	5 8	5 7	6 5	7 8	8 9	6 5	6 8	7	5 6	8	1.3 0.6
6	7	8	6	5	7	5	6	5	7	6	4	5	6	5	1.0
6.9	6.1	6.8	6.4	4.9	5.9	6.9	5.1	7.7	6.3	5.8	5.9	6.7	4.7	5.8	1.3
6.4	5.4	6.2	6.0	4.6	5.1	6.2	4.9	8.0	6.1	5.5	5.7	6.4	4.6	5.6	1.2
[4]	5	5	[4]	4	4	[4]	5	[4]	[5]	4	5	3	4	4	2.9
7	5	6	6	6	6	6	6	6	6	6	6	7	6	6	0.4
R	R	R	R	R	R		R	R	100	R	R		R		
RAGT	LimEur	LimEur	RAGT	LimEur	RAGT	RAGT	LimEur	DSV	KWS	SyP	KWS	SyP	R2n	KWS	
RAGT	Lim	Lim	RAGT	Lim	RAGT	RAGT	Lim	DSV	KWS	Syn	KWS	Syn	RAGT	Sen	
TOTO	Liiii	Cilli	TOTO	Liiii	IVACI	TOAGT	Citt	DOV	IWO	Oyli	1010	Oyn	TUNOT	OGII	
100	100	99	103	103	103	103	102	105	105	103	102	102	101	100	2.3
100	100	100	103	103	103	103	102	105	105	103	102	102	101	99	3.6
100	100	100	101	101	100	100	101	101	101	100	102	101	100	- 00	0.0
-	104	[103]		103	104	-	101	[106]	[108]	103	[[102]]	100	100	99	5.4
[103]	98	100	[104]	103	104	[100]	101	[106]	[104]	103	104	100	103	102	3.7
[100]		100	[ioij	100	101	[100]	102	[100]	[ioij	100	101	100	100	102	0.7
[99]	101	100	[104]	103	102	[104]	101	[105]	[105]	103	103	102	102	99	3.5
100	100	101	104	103	102	102	102	106	104	103	100	101	101	99	3.0
2	4	3	12	9	9	30	4	11	5	5	2	7	8	3	1
2	5	1	10	13	4	8	2	8	3	5	3	2	8	2	
		[Mid Feb]				[[End Jan]]			[[End Jan]]						
[+2]	[-2]	[-8]	[+3]	-4	+7	[+2]	-2	[-2]	[0]	+6	[-3]	+1	+4	-2	8.0
-	[-3]	[0]	- [-0]	-1	[-2]	-	-3	-	- [0]	+3	[-3]	+0	+2	-2	9.3
-	[-2]	[+1]	-	-3	+0	-	-1	[-5]	[+3]	+2	[-4]	-3	-1	-2	5.3
22	21	21	22	19	20	22	19	22	22	18	21	16	18	15	

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	8
Eyespot	7@
Septoria Tritici (1-year rating)	5.1
Septoria Tritici (3-year average)	5.3
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	8
OWBM	Yes
Specific Weight	78.3
Maturity	-2 -1 0 1 2 3

REGION	YIELD
UK	97
EAST	97
WEST	96
NORTH	96
Untreated yield	70
Light soils	97
Heavy soils	97
First Cereal	96
Second Cereal	98

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.

Mildew	7					
Yellow Rust	9					
Brown Rust	3					
Eyespot	5					
Septoria Tritici (1-year rating)	5.9					
Septoria Tritici (3-year average)	6.2					
Resistance to lodging (+PGR)	8					
Resistance to lodging (- PGR)	7					
OWBM	No					
Specific Weight	77.8					
Maturity	-2 -1	0	1	2	3	

REGION	YIELD
UK	96
EAST	96
WEST	97
NORTH	94
Untreated yield	72
Light soils	94
Heavy soils	97
First Cereal	96
Second Cereal	94

NISSABA

Nissaba is a NEW Group 1 spring wheat on the AHDB RL for 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 trialing.

Mildew	5					
Yellow Rust	5					
Brown Rust	9					
Septoria Tritici	6					
Straw Height without PGR	77					
OWBM	Yes					
Specific Weight	76.4					
Maturity	-2 -1	0	1	2	3	

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

REGION	YIELD
UK Yield as % control (Autumn Sowing)	97
UK Yield as % control (Spring Sowing)	95



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 planting
- 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





KWS LADUM (KWS SYWELL X KWS TALLAND)

KWS Ladum is NEW to the RL as a spring Group 1 milling wheat for 2022/23.

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	[8]					
Yellow Rust	6					
Brown Rust	[7]					
Septoria Tritici	[7]					
Straw Height without PGR	75					
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

WINTER WHEAT GROUP 2

KWS EXTASE (BOISSEAU X SOLHEIO)

KWS Extase was the most popular variety sold in the UK last harvest with a market share of 14.2%.

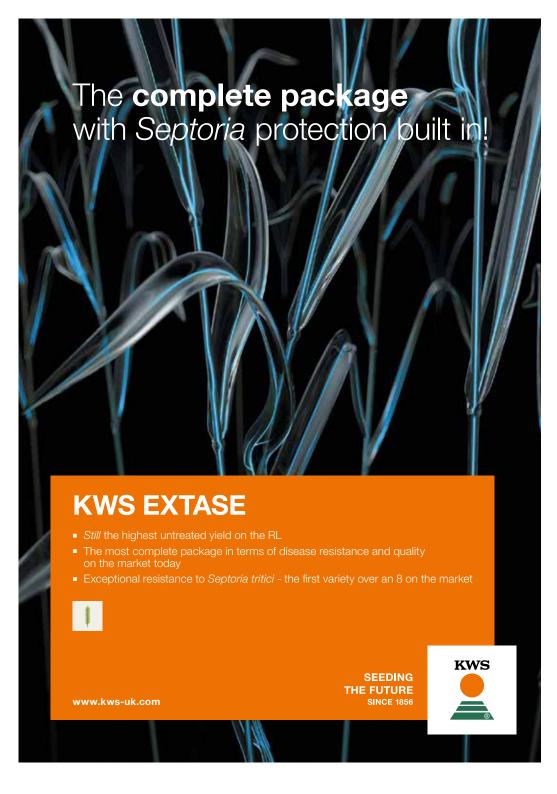
It has the highest untreated yield on the recommended list at 93% of control.

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.

Mildew	7
Yellow Rust	8
Brown Rust	7
Eyespot	3
Septoria Tritici (1-year rating)	7.3
Septoria Tritici (3-year average)	7.8
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	7
OWBM	No
Specific Weight	78.5
Maturity	-2 -1 0 1 2 3

REGION	YIELD
UK	101
EAST	100
WEST	102
NORTH	99
Untreated yield	93
Light soils	101
Heavy soils	101
First Cereal	102
Second Cereal	100



KWS PALLADIUM (KWS ZYATT X KWS TRINITY)

A new variety added to the AHDB Recommended List.

Very high untreated yield of 90% 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.

Mildew	8
Yellow Rust	9
Brown Rust	5
Eyespot	[6]
Septoria Tritici (1-year rating)	7.2
Septoria Tritici 3-year average)	7.4
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	7
OWBM	No
Specific Weight	76.9
Maturity	-2 -1 0 1 2 3

REGION	YIELD
UK	100
EAST	99
WEST	101
NORTH	[99]
Untreated yield	90
Light soils	[98]
Heavy soils	98
First Cereal	100
Second Cereal	100



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	8					
Brown Rust	8					
Eyespot	5					
Septoria Tritici (1-year rating)	6.2					
Septoria Tritici						
(3-year average)	6.8					
Resistance to lodging (+PGR)	9					
Resistance to lodging (- PGR)	7					
OWBM	Yes					
Specific Weight	77.4					
Maturity	-2 -1	0	1	2	3	

^	()	
	REGION	YIELD
	UK	100
	EAST	100
	WEST	99
	NORTH	97
	Untreated yield	86
	Light soils	100
	Heavy soils	101
	First Cereal	99
	Second Cereal	100



LG ILLUMINATE ((COUGAR X LEEDS) X BRITANNIA)

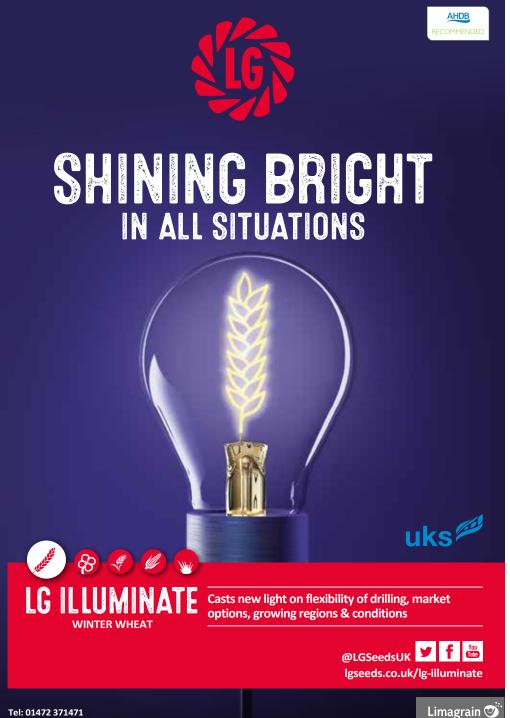
A sister variety to LG Astronomer which is slightly higher yielding and will drill slightly earlier.

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	7			
Eyespot	5			
Septoria Tritici (1-year rating)	5.4			
Septoria Tritici				
(3-year average)	6.1			
Resistance to lodging (+PGR)	7			
Resistance to lodging (- PGR)	7			
OWBM	Yes			
Specific Weight	76.2			
Maturity	-2 -1 0	1	2	3

REGION	YIELD
UK	100
EAST	100
WEST	100
NORTH	101
Untreated yield	84
Light soils	101
Heavy soils	100
First Cereal	100
Second Cereal	100



WINTER WHEAT GROUP 4 (SOFT)

RGT BAIRSTOW ((REVELATION X SANTIAGO) X COUGAR)

RGT Bairstow is new onto the RL for this 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 spread 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	7
Brown Rust	6
Eyespot	[4]
Septoria Tritici (1-year rating)	6.0
Septoria Tritici (3-year average)	6.4
Resistance to lodging (+PGR)	6
Resistance to lodging (- PGR)	6
OWBM	Yes
Specific Weight	75.9
Maturity	-2 -1 0 1 2 3

UGAK)	
REGION	YIELD
UK	103
EAST	103
WEST	103
NORTH	103
Untreated yield	85
Light soils	[104]
Heavy soils	104
First Cereal	103
Second Cereal	104

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

LG Skyscraper has been on the RL since 2019 and held 11% market share in autumn 2021.

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	4				
Septoria Tritici (1-year rating)	4.6				
Septoria Tritici 3-year average)	4.9				
Resistance to lodging (+PGR)	6				
Resistance to lodging (- PGR)	6				
OWBM	Yes				
Specific Weight	76.5				
Maturity	-2 -1	0	1	2	3

REGION	YIELD
UK	103
EAST	103
WEST	103
NORTH	102
Untreated yield	82
Light soils	103
Heavy soils	103
First Cereal	103
Second Cereal	104



WINTER WHEAT GROUP 4 (SOFT)

RGT SAKI (COUGAR X KWS SANTIAGO)

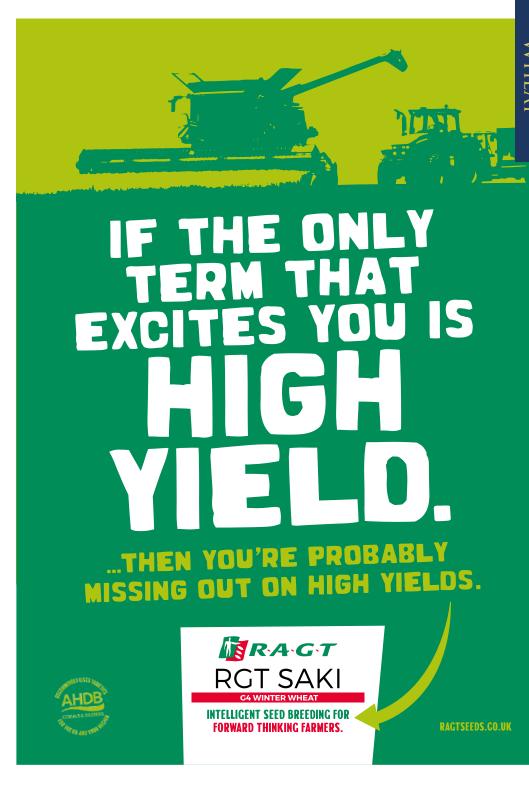
RGT Saki is a high yielding wheat with a reasonable disease package and an untreated yield of 85%.

Suitable for all soil types but needs a good PGR program on heavier soils.

RGT Saki is slow to develop and late to mature which is something that should be considered on higher ground. However, for those needing to spread workload, it can be a very useful variety as part of the mix on farm.

Mildew	5
Yellow Rust	8
Brown Rust	7
Eyespot	4
Septoria Tritici (1-year rating)	5.1
Septoria Tritici (3-year average)	5.9
Resistance to lodging (+PGR)	7
Resistance to lodging (- PGR)	6
OWBM	Yes
Specific Weight	75.6
Maturity	-2 -1 0 1 2 3

REGION	YIELD
UK	103
EAST	103
WEST	103
NORTH	102
Untreated yield	85
Light soils	102
Heavy soils	102
First Cereal	103
Second Cereal	103



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 quality - its 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 beat!

Mildew	6				
Yellow Rust	5				
Brown Rust	6				
Eyespot	5				
Septoria Tritici (1-year rating)	4.9				
Septoria Tritici (3-year average)	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)

NEW for Autumn 2022, Champion is the highest yielding wheat on the market!

Performs very well on all soil types, particularly heavier land and is also a good second wheat

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 is definitely worth a try for those wanting to try something new this autumn!

Mildew	7				
Yellow Rust	8				
Brown Rust	5				
Eyespot	[4]				
Septoria Tritici (1-year rating)	8.0				
Septoria Tritici (3-year average)	7.7				
Resistance to lodging (+PGR)	7				
Resistance to lodging (- PGR)	6				
OWBM	Yes				
Specific Weight	74.8				
Maturity	-2 -1	0	1	2	3

REGION	YIELD
UK	106
EAST	107
WEST	105
NORTH	[103]
Untreated yield	90
Light soils	[105]
Heavy soils	106
First Cereal	105
Second Cereal	107

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



dsv-uk.co.uk

KWS DAWSUM (KWS KERRIN X COSTELLO)

NEW for Autumn 2022, KWS Dawsum is the second highest yielding wheat on the market after Champion.

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.

If you are looking for a new variety this autumn give KWS Dawsum a try!

Mildew	8								
Yellow Rust	9				_				
Brown Rust	7								
Eyespot	[5]								
Septoria Tritici (1-year rating)	6.1								
Septoria Tritici (3-year average)	6.3								
Resistance to lodging (+PGR)	7								
Resistance to lodging (- PGR)	7								
OWBM	No								
Specific Weight	79.4								
Maturity	-2 -1	0	1	2	3				

REGION	YIELD
UK	104
EAST	103
WEST	106
NORTH	[106]
Untreated yield	92
Light soils	[105]
Heavy soils	104
First Cereal	105
Second Cereal	104

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



KWS DAWSUM

- Exceptional specific weight (79.4 kg/hl
- Very high yield potential across all regions of the UK
- Super flexible on farm with a wide sowing window



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SEEDING THE FUTURE SINCE 1856



GLEAM (HEREFORD X KWS KIELDER)

Despite being on the market since 2018, Gleam is still one of the most popular varieties on farm which once again held its market share of 12% in autumn 2021.

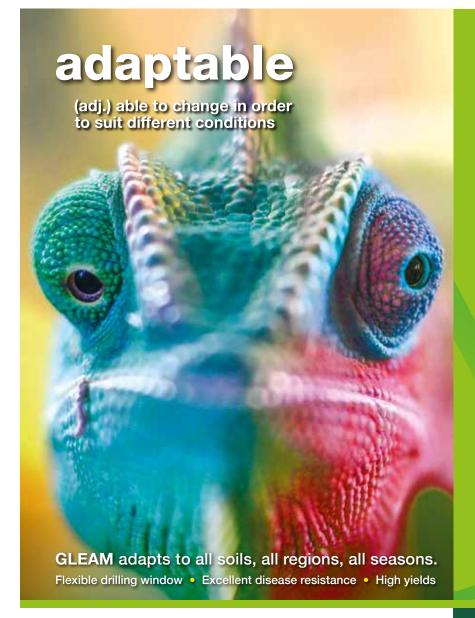
Wide drilling window from 1st September - Mid February.

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 80% but needs watching for yellow rust.

Mildew	6				
Yellow Rust	5				
Brown Rust	6				
Eyespot	4				
Septoria Tritici (1-year rating)	5.5				
Septoria Tritici (3-year average)	5.8				
Resistance to lodging (+PGR)	7				
Resistance to lodging (- PGR)	7				
OWBM	Yes				
Specific Weight	76.3				
Maturity	-2 -1	0	1	2	3

REGION	YIELD
UK	103
EAST	103
WEST	103
NORTH	103
Untreated yield	80
Light soils	103
Heavy soils	103
First Cereal	103
Second Cereal	103







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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.

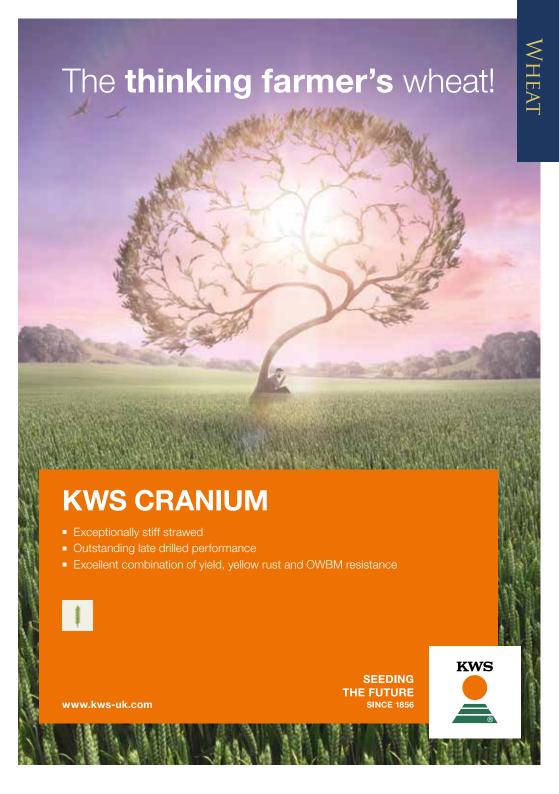
It performs exceptionally well in the later drilled slot - an ideal choice after later harvested crops such as potatoes.

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	8
Brown Rust	4
Eyespot	5
Septoria Tritici (1-year rating)	5.7
Septoria Tritici (3-year average)	5.9
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	8
OWBM	Yes
Specific Weight	75.1
Maturity	-2 -1 0 1 2 3

YIELD
102
102
101
101
79
103
100
102
102

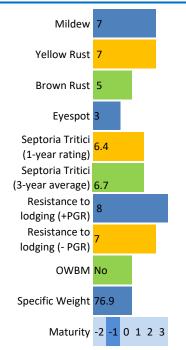


GRAHAM (PREMIO X EXPERT)

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 88%.

Good grain quality and reasonably early to mature.



REGION	YIELD
UK	102
EAST	100
WEST	104
NORTH	102
Untreated yield	88
Light soils	102
Heavy soils	101
First Cereal	102
Second Cereal	101

RGT GRAVITY (SCOUT X OAKLEY) X SANTIAGO)

RGT Gravity has been on
the RL since 2018, but is
still a very consistent
performer on farm in
either the 1st or 2nd
wheat slot.

It is not the cleanest variety, but for those growers who have had RGT Gravity on farm for several years and know how to grow it, it consistently produces high yields.

Suitable for all soil types but should not be drilled early and needs a good PGR program.

Mildew	5	REGION	YIELD
Yellow Rust	6	UK	101
Brown Rust	6	EAST	102
Eyespot	4	WEST	101
Septoria Tritici (1-year rating)	4.6	NORTH	100
Septoria Tritici (3-year average)	4.7	Untreated yield	77
Resistance to lodging (+PGR)	7	Light soils	102
Resistance to lodging (- PGR)	6	Heavy soils	101
OWBM	Yes	First Cereal	101
Specific Weight	75.6	Second Cereal	103
Maturity	-2 -1 0 1 2 3		

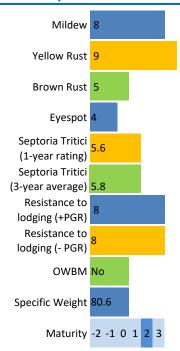
· A · · · · · · · · · · · · · · · · · ·	
	MANAGE STATE

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.



REGION	YIELD
UK	100
EAST	99
WEST	100
NORTH	100
Untreated yield	81
Light soils	99
Heavy soils	99
First Cereal	100
Second Cereal	99



EXCEPTIONAL GRAIN QUALITY, WITH THE HIGHEST SPECIFIC WEIGHT ON THE AHDB RL

> **RESISTANT TO YELLOW RUST**

CONSISTENT **PERFORMANCE IN ALL SITUATIONS**

SHORT, STIFF STRAW

STRONG END MARKET **DEMAND**

AHDB



Tel 01223 890777 · info@senova.uk.com · ♥@SenovaLtd

KWS PARKIN (REFLECTION X COSTELLO)

KWS Parkin narrowly		
missed the RL in 2020 but		
has a unique place on		
farm.		

It has established itself in the market as a Grafton type replacement, due to its suitability to early drilling, short, stiff straw and early maturity.

Excellent variety for fertile sites.
Reasonable disease package but needs watching for brown rust.
KWS Parkin is a great variety for those looking to spread the workload at harvest or for the traditional Grafton grower looking for a replacement.

Mildew	5
Yellow Rust	9
Brown Rust	4
Eyespot	[4]
Septoria Tritici (1-year rating)	No Data
Septoria Tritici (3-year average)	5.5
Resistance to lodging (+PGR)	8
Resistance to lodging (- PGR)	8
OWBM	No
Specific Weight	76.2
Maturity	-2 -1 0 1 2 3

REGION	YIELD		
UK	101		
EAST	101		
WEST	101		
NORTH	100		
Untreated yield	81		
Light soils	100		
Heavy soils	102		
First Cereal	101		
Second Cereal	99		
Data taken from KWS figures			





www.kws-uk.com

SEEDING THE FUTURE SINCE 1856



N/A

DRILL DATES FOR WINTER WHEAT

Variety	Drilling Window	Second Wheat Performance
KWS Zyatt	20th Sept - End Jan	Excellent
Skyfall	Mid Oct - End Jan	Good
	(Latest safe sowing date 7th March)	
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 Palladium	7th Sept - Mid Feb	Good
LG Astronomer	15 Sept - Mid Feb	Good
LG Illuminate	15 Sept - Mid Feb	Good
RGT Bairstow	Mid Sept - End Feb	Good
LG Skyscraper	25th Sept - End Jan	Good
RGT Saki	Mid Sept - End Jan	Good
LG Spotlight	25th Sept - End Feb	1st wheat preferred
Champion	20th Sept - Mid Feb	Good
KWS Dawsum	7th Sept - End Jan	Good
KWS Cranium	Mid Sept - End Jan	Excellent
Gleam	1st Sept - Mid Feb	Excellent
Graham	1st Sept - End Jan	1st wheat preferred
RGT Gravity	End Sept - End Jan	Excellent
Costello	12th Sept - End Jan	1st wheat preferred
KWS Parkin	1st Sept - End Jan	Good

WINTER OATS

RGT SOUTHWARK

Mildew (1-9) 4 REGION The highest yielding winter oat variety on the AHDB Recommended List. Crown Rust (1-9) 8 Breeder **RAGT** Offers a good specific UK yield (% Resistance to 104 Lodging (-PGR) treated control) weight. Straw Length Kernel content 72.9 A very tall variety which is without PGR (cm) (%) early to mature and Specific Weight harvest. Maturity -2 -1 0 1 2 3 53.6 (kg/hl) Screenings 5.5 (2.0mm)

DALGUISE

An early maturing variety with good specific weight	Mildew (1-9)	4			
and decent grain quality.	Crown Rust (1-9)	4			
It has weak lodging resistance.	Resistance to Lodging (-PGR)	4			
Dalguise is susceptible to	Straw Length without PGR (cm)	124			
crown rust and mildew.	Maturity	-2 -1	0 :	L 2	3

REGION	YIELD
Breeder	Senova
UK yield (% treated control)	100
Kernel content (%)	73.0
Specific Weight (kg/hl)	54.2
Screenings (2.0mm)	3.5
Screenings (1.8mm)	N/A

Screenings

(1.8mm)

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WINTER OATS

RGT LINEOUT

A high yielding oat which is early to mature.

It has decent resistence to crown rust but needs watching for mildew.

High yields and moderately stiff straw.

Mildew (1-9)	3					
Crown Rust (1-9)	5					
Resistance to Lodging (-PGR)	6					
Straw Length without PGR (cm)	11	8				
Maturity	-2	-1	0	1	2	3

REGION	YIELD
Breeder	RAGT
UK yield (% treated control)	100
Kernel content (%)	73.1
Specific Weight (kg/hl)	52.2
Screenings (2.0mm)	6.2
Screenings (1.8mm)	N/A

MASCANI

Mascani is the most popular milling oat variety with 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)	97
Kernel content (%)	76.4
Specific Weight (kg/hl)	53.3
Screenings (2.0mm)	1.7
Screenings (1.8mm)	N/A

WINTER RYE

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

Brown Rust (1-9)	[7]			
Straw Length (cm)	128			
Maturity	-2 -1 0	1	2	3

REGION	YIELD
Breeder	KWS
UK yield (% treated control)	104
Protein (%)	9.6
HFN	259
Specific Weight (kg/hl)	76.6
Wholecrop silage maturity (% DM)	30-40



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Join the **#ryevolution**!



KWS TAYO

- New generation PollenPlus® hybrid with excellent stem stiffness



www.kws-uk.com

SEEDING THE FUTURE **SINCE 1856**



HYBRID WINTER RYE

KWS SERAFINO

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

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 Oct - 250+ seeds/m2

Brown Rust (1-9)	7	
Straw Length (cm)	130	

Maturity	-2 -1	0 1	2	3
----------	-------	-----	---	---

REGION	YIELD
Breeder	KWS
UK yield (% treated control)	102
Protein (%)	9.5
HFN	258
Specific Weight (kg/hl)	76.7
Wholecrop silage maturity (% DM)	30-40

RAPE

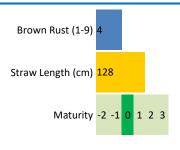
HYBRID WINTER RYE

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.



REGION	YIELD
Breeder	Saaten Union
UK yield (% treated control)	100
Protein (%)	9.5
HFN	244
Specific Weight (kg/hl)	77.4
Wholecrop silage maturity (% DM)	30-40

MORTIMERS O MORTIMERS MICRIMERS MORTIMERS MICRIMERS MICRIMERS

OILSEED RAPE

CONVENTIONAL OILSED 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)	5
TuYV Resistance	No
Pod Shatter Resistance	No
Earliness of flowering (1-9)	6
Earliness of maturity (1-9)	5

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	104
E/W Output (%)	104
Lodging Resistance	8
Plant Height (cm)	145
Oil Content	45.3%
RL status	2022/23

BLAZEN - CONVENTIONAL

Blazen has been on the market since 2020 with reasonable yields.

It is marketed under the

KWS Oilseed Establishment Partnership - an establishment scheme which shares the risk of establishment between KWS and the grower.

Short, stiff straw and good autumn and spring vigour.

Light Leaf Spot (1-9) 7
Stem Canker (1-9) 6

Recommended

Regions

TuYV Resistance No

Resistance
Earliness of flowering (1-9)
Earliness of

maturity (1-9) 5.0

Recommended Regions

AGRONOMIC DATA	
Breeder	KWS
UK Output (%)	99
E/W Output (%)	98
Lodging Resistance	[8]
Plant Height (cm)	148
Oil Content	44.5%
RL status	2022/23

68 Mortimers Autumn Seed Brochure 2022 Mortimers Autumn Seed Brochure 2022 6g

HYBRID OILSEED RAPE

DK EXSTAR - HYBRID

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

Suitable for early drilling.

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

Available on establishment scheme.

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

Data)

AGRONOMIC DATA	
Breeder	Dekalb
AHDB Yield (t/ha)	5.46
Lodging Resistance	9
Plant Height (cm)	162
Oil Content	45.3%
RL status	No

LG AUCKLAND - HYBRID

LG Auckland is a new variety for Autumn 2022 - it sits joint top for yield alongside PT303.

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.

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

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

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	107
E/W Output (%)	108
Lodging Resistance	[8]
Plant Height (cm)	155
Oil Content	45.4%
RL status	2022/23

HYBRID **DK Exstar ESTABLISHMENT** OILS EE 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 DEKALB • 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

AMBASSADOR - HYBRID

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

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

Resistant to TuYV, moderately good resistance to light leaf spot and stem canker.

Light Leaf Spot (1- 9)	7
Stem Canker (1-9)	7

` ′

TuYV Resistance Yes

Pod Shatter Resistance Earliness of

flowering (1-9)
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)	154
Oil Content	45.0%
RL status	2022/ 23

AURELIA - HYBRID

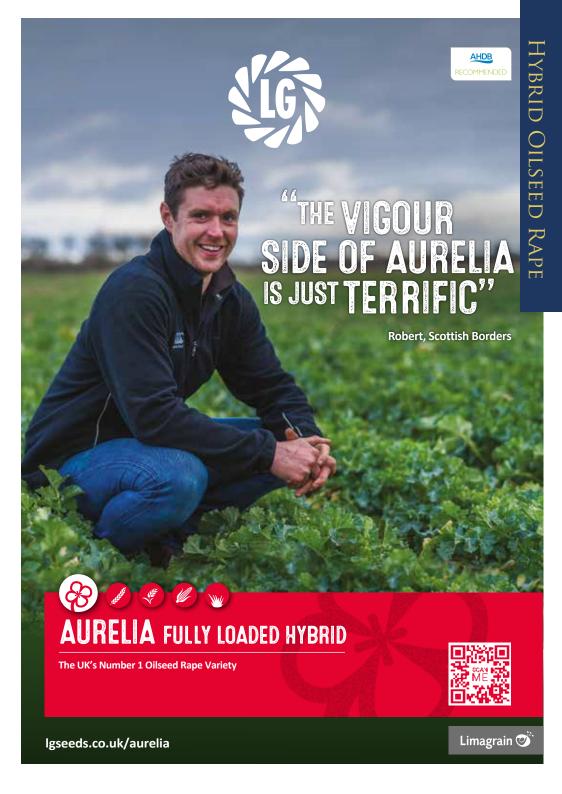
Aurelia was our most popular hybrid last autumn with very consistent performance on farm and high yields.

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)	7
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)	150
Oil Content	45.0%
RL status	2022/23



HYBRID OILSEED RAPE

ARTEMIS - HYBRID

Artemis is a great all rounder out of Limagrain's strong portfolio of rape varieties which we have exclusive access to.

Stiff strawed, relatively early to flower and mature aswell as good oil content.

TuYV, Pod Shatter and RLM7 phoma resistance.

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

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	104
E/W Output (%)	104
Lodging Resistance	8
Plant Height (cm)	157
Oil Content	45.4%
RL status	2022/23

LG AVIRON - HYBRID

LG Aviron is Limagrains most vigorous variety with exceptional autumn and spring vigour.

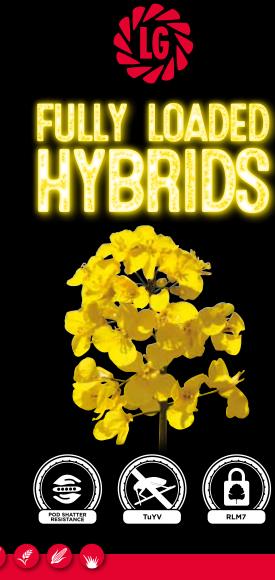
Suited for drilling from 2nd week in August - end September.

Highest Light Leaf Spot score on the RL.

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

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	ΔII
Regions	

AGRONOMIC DATA	
Breeder	LG
UK Output (%)	105
E/W Output (%)	105
Lodging Resistance	[7]
Plant Height (cm)	156
Oil Content	44.3%
RL status	2022/23





ARTEMIS High yielding hybrid with a strong agronomic package and proven on-farm performance



Igseeds.co.uk/artemis



CLEARFIELD 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. Available on establishment scheme.

Light Leaf Spot (1-9)	6
Stem Canker (1-9)	8
TuYV Resistance	No
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	5
Earliness of maturity (1-9)	5
Recommended Regions	UK

AGRONOMIC DATA	
Breeder	Dekalb
UK Output (%)	92
E/W Output (%)	92
Lodging Resistance	[8]
Plant Height (cm)	158
Oil Content	43.7%
RL status	2022/23

DK IMOVE CL - CLEARFIELD

DK Imove is Dekalb's NEW clearfield variety, which is a step on in yield from the likes of DK Imprint.

Good foliar disease resistance, aswell as rapid autumn and spring development.

Benefits from double phoma and pod shatter resistance.

Light Leaf Spot (1-9)	6
Stem Canker (1-9)	8
TuYV Resistance	No
Pod Shatter Resistance	Yes
Earliness of flowering (1-9)	6
Earliness of	
maturity (1-9)	7
Recommended Regions (Dekalb	All
	Dekalb Data

AGRONOMIC DATA	
Breeder	Dekalb
AHDB Yield (t/ha)	5.01
Lodging Resistance	8
Plant Height (1- 9)	3
Oil Content	44.5%
RL status	No

Available on establishment scheme.

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.

A large seed size with a pale hilum.

A short plant, so good standing.

Yield (% of control) 96

Earliness of maturity

Straw Length (cm) 112

Standing ability at harvest

> Thousand Seed Weight (g)

Protein (% dry) 26.2

VESPA

Top of the PRGO Descriptive List 2022 for yield.

Slightly earlier to ripen than Tundra.

Suits both the feed and human consumption market.

Yield (% of control) 108

Earliness of maturity

Straw Length (cm) 122

Standing ability at harvest

Thousand Seed 682 Weight (g)

Protein (% dry) 26.2

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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:











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SEED DRESSINGS

SINGLE PURPOSE



Redigo Pro - winter & spring wheat, spring oats and barley, rve and triticale

Active substances: Prothiconzole and tebuconazole. Its two advanced actives work together by acting inside the germinating seedlings.

Broad -spectrum control:

- · Septoria seedling blight and stem base browning: improves the health of stem base by reducing symptoms caused by Microdochium nivale and Fusarium SPP
- · Loose smut in winter & spring barley
- · Seed-and soil-borne bunt
- Blue mould
- Ergot: reduces germination of treated ergot particles
- · Leaf stripe partial control of Pyrenophora Graminea in winter and spring barley (not crops grown for multiplication)

For more information on Redigo Pro, please see www.bayercropscience.co.uk



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.



The start of a new growing season is your opportunity to control the hidden diseases which can impact your harvest. Redigo Pro provides the broadest protection from all major seed- & soil-borne diseases in your barley & wheat crops and can also help reduce ergot contamination*1. Secure the best protection from day one by specifying Redigo Pro when ordering your seed this season.

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



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

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 is a new product for this Autumn from BASF, offering 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 vield 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

^{*}Based on CRD-approved label recommendations on 6th June 2018. All details correct at time of going to press.

^{*2}MAGB annual survey 2007-2016, http://www.ukmalt.com/annual-survey-rejections-barley-uk-malting-sites Redigo Pro contains prothioconazole and tebuconazole. Redigo is a registered Trade Mark of Bayer. Use plant protection products safely. Always read the label and product information before use. Pay attention to the risk indications and follow the safety precautions on the label For further information, including contact details, visit www.cropscience.bayer.co.uk or call 0808 1969522. © Bayer CropScience Limited 2021





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 q/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
- 16g/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 new phosphite based seed treatment for beans in 2021. Similar to Kick Off in cereals, it is a phosphite based dressing to aid early rooting. This product contains phosphite plus potassium, sulphur, manganese, zinc, amino acids and molybdenum – an important nutrient for successful pollination.

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BIOSTIMULANT SEED DRESSINGS:

TIROS seed treatment is comprised of a unique combination of endophytes which enable all crops to fix nitrogen, sequester phosphorous, potassium and zinc, and better withstand drought stress.

Plants have had associations with micro-organisms since they first appeared on earth. This biological biome confers many properties to the plant – enhanced nutrient availability, growth promotion, abiotic and biotic stress support, in plant detoxification and siderophore production.

The endophytes from the University of Washington have been specially selected to fix atmospheric nitrogen and sequester other nutrients from the soil. They live within the whole plant from root to shoots.

The seed treatment's proven abilities mean that crops require less artificial fertiliser, which is good news for the environment as well as a farmer's bottom line. Please ring us for more details if you are interesting in trying some TIROS this autumn!



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, cover crops and companion mixes – please get in touch to discuss your requirements for Autumn 2022.

Environmental Mixes 2023:

From January 2023, we will be able to mix game cover and environmental mixes on site to order. We will be sending a brochure out for next season with more details!

COMPANION CROPS



COVER CROPS



GRASS MIXES



GAME COVER



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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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