



# AUTUMN SEED BROCHURE 2021





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# HARVEST 2021

**Significant investment in our seed plant to increase our processing speed and further enhance our quality, including a new optical (colour) sorter, combined with some strong new varieties mean we are very excited about the Autumn 2021 seed season.**

## Investing in Quality

A huge new pre cleaner, extensions to our bins, the addition of an extra cleaning cylinder and a brand new Bayer treater will give us a 40% increase in throughput and an even finer level of cleaning. For you this means faster delivery of an even better quality seed, still grown by trusted local growers, or for your own Farm Saved Seed.

In addition, we have now added a new optical (colour) sorter, which gives you the purest, cleanest seed possible to produce. Anywhere. The optical sorter comes into play after the mechanical cleaning process and works by using cameras to detect anything (to 0.06mm) of abnormal size, shape or colour and then blows these out of the seed using jets of dried air. In combination with the care we take in selecting our growers and the rest of our seed cleaning process, it means it is impossible to buy cleaner, purer seed anywhere.

We have also significantly increased our planted area to give us more stock and variety choice, including new varieties.

On staffing, we have added to our team in the seed plant and our seed delivery drivers. Lucy, Georgina, Stuart and Dan have completed their seed sampling, Cereal and Pulses inspector training, to finish this year's round of improvements to our business.

## A view over the hedge...

2021 also sees our own independent trials, being run at Cottam Warren Farm, kindly hosted by Ralph Beevers. These are designed to provide a local, completely independent perspective on cereal varieties, to assist you in selecting varieties for your year ahead.

Challenging farming conditions also call for the best genetics and at our trials you will be able to see winter wheat and both conventional and hybrid barleys, all on a farm scale including some of the new varieties, such as KWS Tardis, LG Astronomer and KWS Cranium, alongside trusted stalwarts Gleam and KWS Cassia.

As a team we are investing to stay at the leading edge of seed production, in order to continue to provide a unique, independent service to you, our local customers well into the future. Thank you for your ongoing support and we look forward to doing business in the coming Harvest 2021 season.

**From all at Mortimers.**

# ABOUT US

**Mortimers are independent grain, seed and fertiliser merchants in Drifffield, 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 hectare 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

We have deliberately designed our seed plant enhancements to allow us to also complete fast commercial cleaning of high value crops outside seed season, for example to remove ergot in milling wheat or fusarium in malting barley, if required.

### The Optical (Colour) Sorter



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

## MORTIMERS CROP TRIALS 2021

New for 2021, Mortimers have our own independent crop trials, very kindly hosted on one of our customer's 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 with a plot size of 0.25ha, 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 new varieties at the trials include:

### BARLEY'S:

**Malting:** Craft, SY Vessel

**2-Row Feed:** KWS Tardis, Bolton, Bordeaux, Valerie, KWS Hawking, KWS Creswell, KWS Cassia

**Hybrid:** SY Kingsbarn, SY Thunderbolt, Bazooka

### WHEATS:

**Group 1:** Skyfall, KWS Zyatt

**Group 2:** KWS Extase, KWS Siskin

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

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

**Group 4 Hard:** KWS Cranium, Champion, RGT Wolverine (BYDV tolerant), KWS Parkin, Gleam, Graham, RGT Gravity, Costello, KWS Kerrin, SY Insitor

# WEATHER PATTERNS

As an industry and within our own company, the weather dominates a lot of our conversations from being stood in a field with a customer, on phone calls with end users discussing grain prices to trying to estimate tonnages of seed crops!

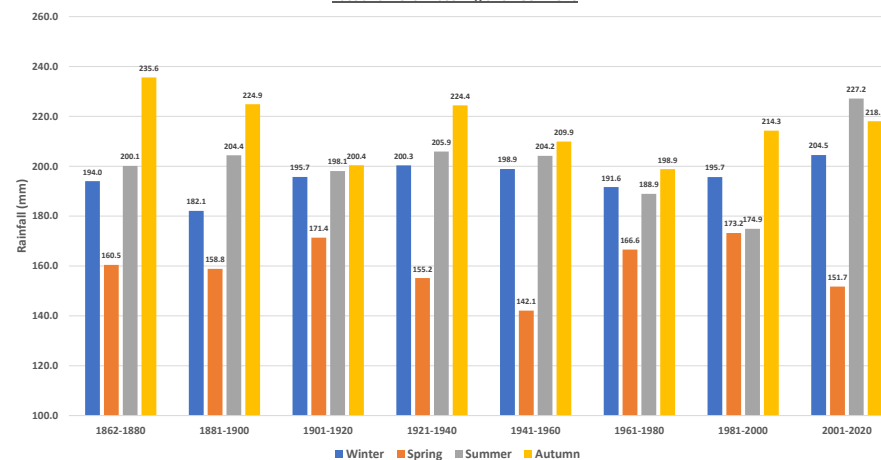
Below are 2 graphs using the Met Office historic weather data for the East and North-East of England from 1882-2020. Whilst there have always been periods of time where certain seasons have been wetter/drier than the average, there is no doubt that weather patterns have changed over the last 20 years - higher temperatures, drier springs and wetter summers and winters.

Agriculture is an ever-evolving industry with adapting to change a constant challenge and opportunity. With these more erratic weather patterns bring the need to choose varieties that can spread the workload over the farm offering a wide drilling window as well as some flexibility with maturity at harvest. We believe this is something that growers are now looking more carefully at when making cropping decisions.

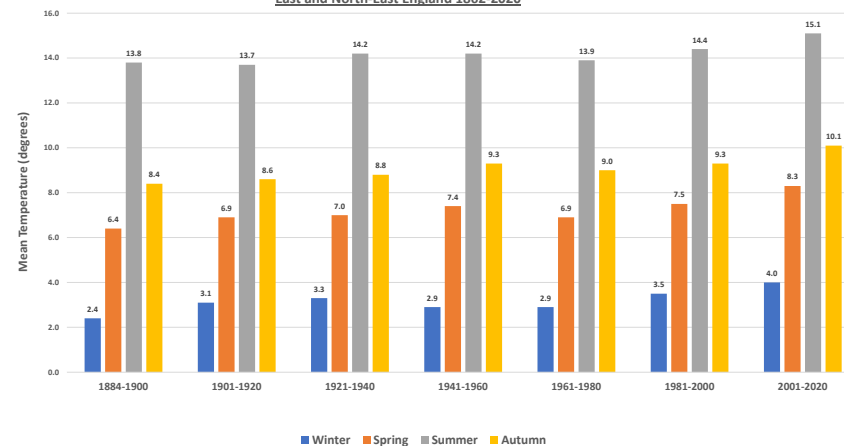
Alongside this comes recognising the value of varieties with strong genetic traits from disease resistance to BYDV and OWBM resistance to help with both the unpredictable weather challenges, and the loss of many key fungicides and seed treatments.

Here at Mortimers, we try and select the varieties we believe will offer customers on farm flexibility in the field through strong genetics and consistent yield performance as well as suitability for a range end-market uses for growers to be able to add value to their product as much as possible. Our independent crop trials are an invaluable tool for our seed business, as it allows us to evaluate both old and new material throughout the season to ensure we are offering the best variety options to our customers for the following season. We are very much looking forward to being able to show customers around the plots this summer and we hope that you find them beneficial for your cropping decisions for the season ahead.

Met Office Rainfall Historic Data  
East and North-East England 1862-2020



Met Office Historic Temperature Data  
East and North-East England 1862-2020





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

### TOP MALTING BARLEY CHOICE...

#### **Craft**

*Reliable on farm performance  
and demand from end-users.*

### MARKET LEADERS FROM AUTUMN 2020

**KWS Orwell**  
**KWS Hawking**  
**Craft**

### BEST HYBRID VARIETY FOR HARVEST 2021

**SY Kingsbarn**

### CONSISTENT PERFORMERS...

**KWS Orwell**  
**KWS Hawking**  
**Valerie**

### EXCITING OPPORTUNITY FOR MALTING BARLEY GROWERS!

#### **SY Vessel**

*The first dual purpose Non-  
GN winter malting barley with  
strong interest from maltsters.*

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

**Valerie**  
**KWS Cassia**

*Bold grain  
Good straw quality*

### WHICH HYBRID VARIETY IS THE BEST CHOICE FOR BLACKGRASS COMPETITION?

**Bazooka**

### MORTIMERS CHOICE

**KWS Tardis**  
**Bolton**

*Both compete with hybrids  
on yield – give them a try this  
Autumn.*

### TOP YIELDERS

**KWS Tardis**  
**Bolton**

*Both NEW for harvest 2021*



# BARLEY

## AHDB Recommended List

### Winter barley 2021/22

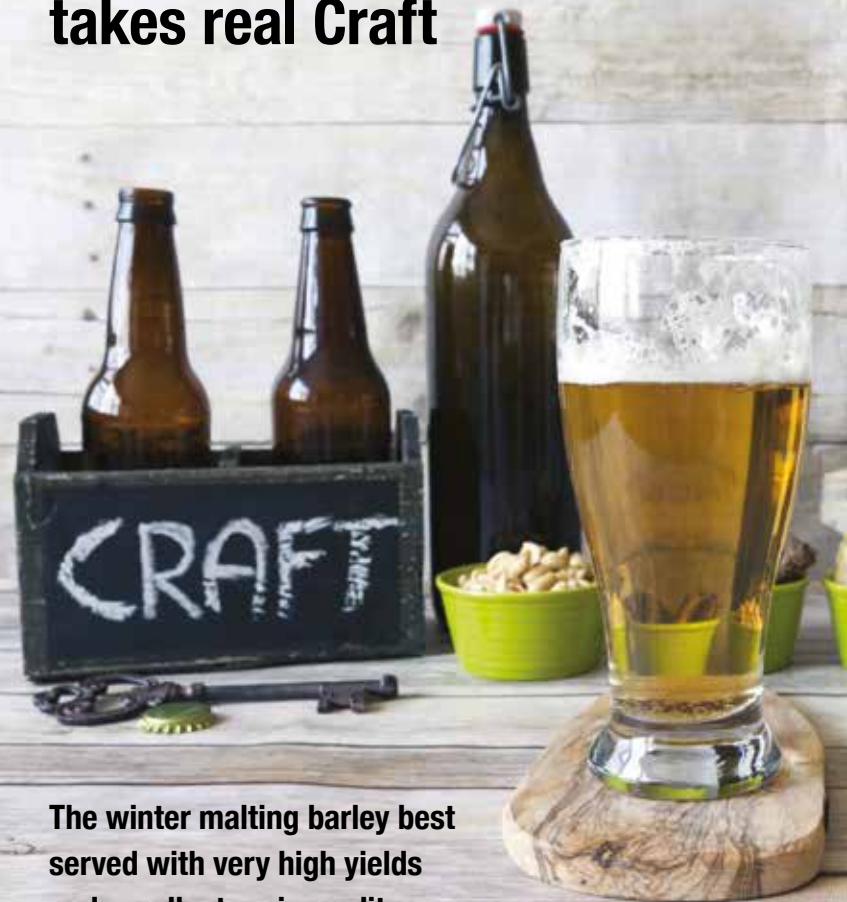
#### Market options, yield and grain quality



	Electrum	Craft	KWS Tardis	Bolton	KWS Hawking	KWS Orwell
End-use group	Two-row malting		Two-row feed			
Scope of recommendation	UK	UK	UK	UK	UK	UK
	C	C	NEW	NEW	C	C
Fungicide-treated grain yield (% treated control)						
United Kingdom (9.7 t/ha)	97	96	106	106	103	102
East region (9.5 t/ha)	97	96	107	107	105	102
Untreated grain yield (% treated control)						
United Kingdom (9.7 t/ha)	77	76	83	83	81	80
Main market options						
MBC malting approval for brewing use	F	F	-	-	-	-
Grain quality						
Specific weight (kg/hl)	69.2	69.5	69.1	68.6	68.7	68.1
Screenings (% through 2.25 mm)	2.3	2.1	2.2	1.9	2.3	2.1
Screenings (% through 2.5 mm)	6.8	6.6	7.2	6.8	7.3	6.3
Nitrogen content (%)	1.69	1.67	-	-	-	-
Agronomic features						
Resistance to lodging (1–9)	7	8	8	8	8	8
Straw height without PGR (cm)	95	93	[92]	[88]	[92]	89
Straw height with PGR (cm)	91	89	86	84	87	86
Ripening (+/-KWS Orwell, -ve = earlier)	-1	+1	0	+1	+1	0
Winter hardiness #	-	-	-	-	-	-
Disease resistance						
Mildew (1–9)	6	6	5	6	5	3
Brown rust (1–9)	7	6	6	5	6	7
Rhynchosporium (1–9)	6	6	7	5	6	6
Net blotch (1–9)	6	6	[5]	[5]	6	5
BaYMV	R	R	R	R	R	R
Breeder/UK contact						
Breeder	SyP	SyP	KWS	Ack	KWS	KWS
UK contact	Syn	Syn	KWS	ElisAck	KWS	KWS
Soil type (about 50% of trials are medium soils)						
Light soils (9.3 t/ha)	96	97	104	105	101	101
Heavy soils (9.6 t/ha)	97	94	[110]	[106]	107	103
Agronomic characteristics						
Lodging without PGR (%)	7	3	1	2	5	2
Lodging with PGR (%)	4	2	2	1	2	2
Brackling (%)	16	13	10	11	8	10
Status in RL system						
Year first listed	18	16	21	21	20	16

Valerie	KWS Cassia	Belmont \$	SY Kingsbarn \$	SY Thunderbolt \$	Bazooka \$
		Six-row feed			
UK	UK	UK	UK	UK	UK
				NEW	C
101	98	107	107	107	106
101	98	108	107	107	106
83	81	76	85	88	85
-	-	-	-	-	-
70.0	71.4	68.7	69.7	69.6	69.2
0.9	1.7	2.8	1.8	2.3	2.5
3.1	5.1	9.6	7.0	7.9	8.7
-	-	-	-	-	-
8	7	7	7	6	7
92	94	112	113	[114]	117
87	91	105	103	106	110
0	+1	0	0	-1	0
-	-	-	-	-	-
6	5	5	7	8	5
6	7	4	5	7	5
6	5	7	6	6	6
[6]	5	5	5	[6]	6
R	R	R	R	R	R
Bre	KWS	SyP	SyP	SyP	SyP
Sen	KWS	Syn	Syn	Syn	Syn
100	98	106	105	103	105
[101]	98	107	108	[111]	107
4	5	13	13	37	7
1	3	9	2	14	4
7	12	17	16	14	11
19	10	18	19	21	16

# Brewing fine quality ale takes real Craft



The winter malting barley best  
served with very high yields  
and excellent grain quality



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BARLEY

## The 2-row that yields like a 6-row

### KWS TARDIS

- Exceptional yields across the UK for a 2-row barley with a very high specific weight
- Outstanding yields in the East
- Excellent disease package



[www.kws-uk.com](http://www.kws-uk.com)

SEEDING  
THE FUTURE  
SINCE 1856





## MALTING



**Craft** (parentage SY208-56 x SY Venture) has high yields, potential malting quality and good disease resistance (all 6 or above), with resistance to BaYMV. Craft has good grain quality with a high specific weight and the lowest screenings of all the winter malting barley varieties. There is strong demand from Maltsters for Craft.



**Electrum** (parentage SY208-56 x SY208-59) Electrum has moderately high yields combined with malting potential and has full MBC approval. It has moderate disease spectrum as well as resistance to BaYMV and is one of the earliest of the winter barleys to mature.

## FEED – 2 ROW CONVENTIONAL



**KWS Tardis** (parentage 11-12xKWS Orwell) is a new variety at the top of the AHDB Recommended List. It offers very high yields of 107% of controls, comparable with hybrid varieties, coupled with a high specific weight. It has stiff straw and is moderately resistant to rhynchosporium, although has shown some susceptibility to both mildew and net blotch.



**Bolton** (parentage KWS Cassia x California) is a new variety added to the AHDB Recommended List. It has very high yields of 107% of controls and benefits from short, stiff straw. It has a strong agronomic package, although shows some susceptibility to both rhynchosporium and net blotch.



**KWS Hawking** (parentage (11-12 x California) x KWS Tower) is a high yielding winter barley with a treated yield of 105% in our region. It has short, relatively stiff straw and moderate disease resistance, with 6 for brown rust, rhynchosporium and net blotch with BaYMV resistance. It is moderately susceptible to mildew. It has good grain quality and was the second most popular 2 row last autumn.



**KWS Orwell** (parentage KWS Tower x KWS Salsa) is a high yielding feed variety with stiff straw. It is moderately resistant to Rhynchosporium and has resistance to BaYMV, but is weak on mildew. KWS Orwell is still very popular on farm due to its consistent performance over the last four years.

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

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

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

Speak to your seed merchant today about availability.

**BOLTON**  
Winter Barley

**Elsoms**  
The Seed Specialists

01775 715000 [www.elsoms.com](http://www.elsoms.com)

The low risk, high yielding  
2-row winter barley

## KWS HAWKING

- High yielding 2-row winter barley, performing especially well in the AHDB East and West
- Stiff strawed
- Early to mature with excellent grain quality



[www.kws-uk.com](http://www.kws-uk.com)

SEEDING  
THE FUTURE  
SINCE 1856



BARLEY

# Valerie

WINTER BARLEY

THE  
**STRONG  
PERFORMER**



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.



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[www.senova.uk.com](http://www.senova.uk.com)



## FEED – 2 ROW CONVENTIONAL (CONT.)



**Valerie** (parentage 207-589 x Sandra) is a relatively new variety added to the AHDB recommended list, offering high yields. It has moderately short, stiff straw and is one of the earlier varieties to ripen. Valerie has good disease resistance with a rating of 6 for Rhynchosporium, Net Blotch and mildew. It offers a high specific weight of 70.2kg/hl and low screenings – the first variety to compete with KWS Cassia for grain quality. In our opinion this is a great farmers feed barley and worth trying for growers looking for something new.



**KWS Cassia** (parentage (Eden x Carat) x Saffron) is a two row feed variety with consistent yields. Despite being on the recommended list for over 10 years KWS Cassia is still popular on farm due to its quality bold grain with a very good specific weight and low screenings. It has a medium height, moderately stiff straw and a relatively good resistance to net blotch and brown rust, but can be susceptible to Rhynchosporium and mildew.

## HYBRID



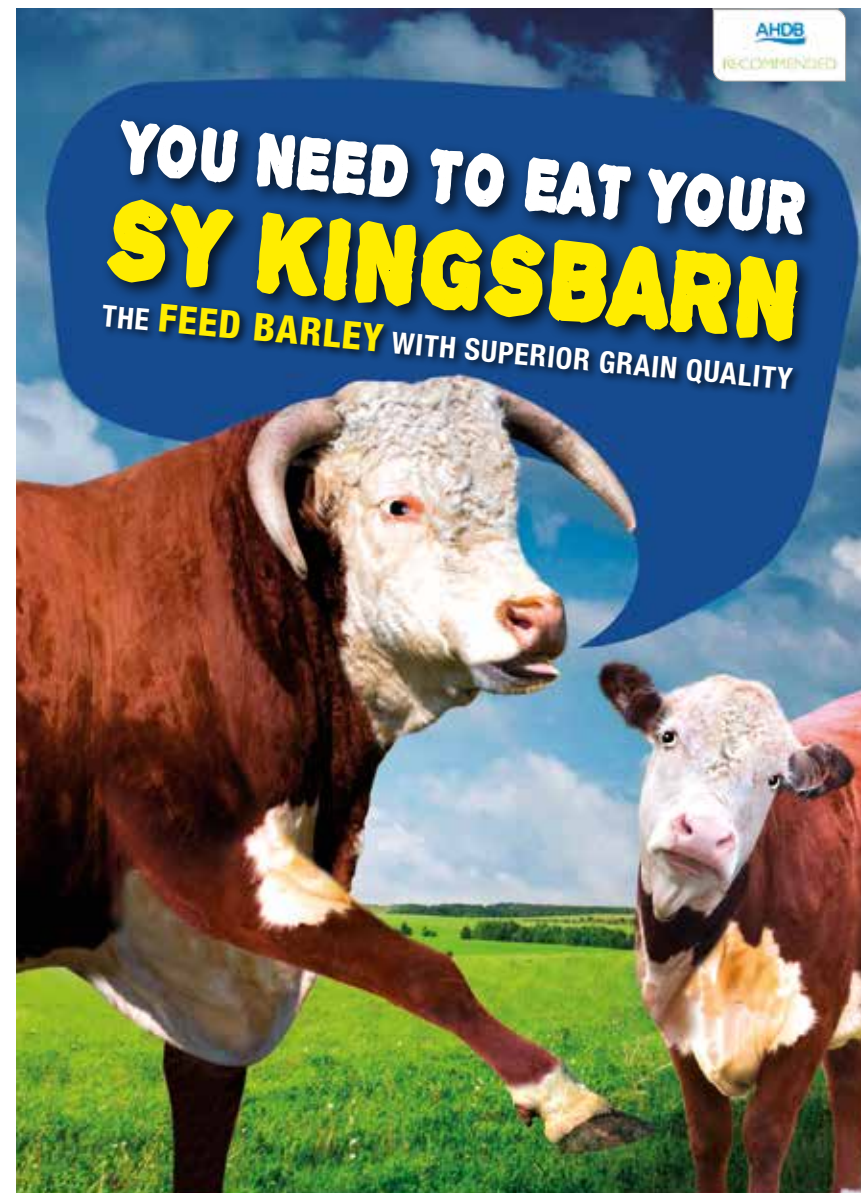
**SY Kingsbarn** is a 6 row hybrid with very high yields and tops the specific weight of all hybrids at 69.7 hg/hl. It has relatively stiff straw in comparison to some of the other hybrid varieties. It also has a strong disease package with 6 for mildew and resistance to BaYMV.



**SY Thunderbolt** is a new variety added to the AHDB Recommended List which offers high yields, particularly on heavier soils. It has tall straw of only moderate strength but good resistance to mildew coupled with moderate resistance to both Rhynchosporium and net blotch.



**Bazooka** (parentage F1 hybrid) is a well established six row hybrid feed variety with high yields. It has tall but stiff straw and reasonable disease resistance. Bazooka produces grain with a good specific weight but requires a careful PGR programme. Bazooka is the best of the hybrids for grass weed suppression.



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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**  
**Graham**

*Later to harvest:*

**RGT Saki**  
**Costello**  
**KWS Cranium**  
**RGT Wolverine**

### TOP PICKS FOR FEED VARIETIES WITH EXCELLENT GRAIN QUALITY

**Costello**  
**LG Spotlight**  
**LG Astronomer**

### TOP YIELDERS

**LG Skyscraper**  
**LG Spotlight**  
**RGT Saki**  
**KWS Cranium**  
**Gleam**  
**RGT Gravity**

### GOOD 2ND WHEAT OPTIONS:

**KWS Zyatt**  
**KWS Siskin**  
**KWS Firefly**  
**LG Skyscraper**  
**Gleam**  
**KWS Kerrin**  
**KWS Cranium**

### WHICH NEW VARIETIES SHOULD I TRY THIS AUTUMN?

#### **LG Astronomer**

*New G3 wheat, excellent agronomics and grain quality.*

#### **LG Illuminate**

*High yielding G3 with good disease resistance.*

#### **RGT Wolverine**

*BYDV tolerant G4 hard feed variety.*

#### **KWS Cranium**

*Very high yielding G4 hard feed wheat, suited to later drilling and good 2nd wheat performance.*

### WHICH VARIETIES CAN I DRILL FROM EARLY SEPTEMBER?

**RGT Saki**  
**KWS Parkin**  
**KWS Firefly**  
**Graham**  
**Gleam**  
**LG Astronomer**

### WHICH VARIETIES OFFER ME THE BEST GENETIC DISEASE RESISTANCE?

**KWS Extase**  
**KWS Firefly**  
**LG Astronomer**  
**RGT Saki**  
**Graham**

### WHICH VARIETIES GIVE ME THE MOST FLEXIBILITY FOR LATE DRILLING?

**Skyfall**  
**KWS Cranium**  
**KWS Siskin**  
**Gleam**  
**KWS Firefly**  
**RGT Gravity**  
**LG Spotlight**  
**KWS Kerrin**



# WHEAT

## AHDB Recommended List

### Winter wheat 2021/22

Market options, yield and grain quality



	KWS Zyatt	Skyfall	Crusoe	KWS Exase	KWS Siskin	KWS Firefly	LG Astronomer	LG Illuminate
End-use group	UKFM Group 1			UKFM Group 2		Group 3		
<b>Fungicide-treated grain yield (% treated control)</b>								
United Kingdom (10.8 t/ha)	98	97	96	100	100	101	101	102
East region (10.7 t/ha)	98	97	96	100	99	102	102	102
<b>Untreated grain yield (% treated control)</b>								
United Kingdom (10.8 t/ha)	79	74	69	93	80	80	86	85
<b>Grain quality</b>								
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft
Protein content (%)	12.4	12.5	13.0	12.1	12.0	12.0	11.9	12.0
Protein content (%) - Milling spec	13.1	13.2	13.6	12.7	12.7	12.5	[12.4]	[12.4]
Hagberg Falling Number	267	279	274	299	289	243	238	251
Specific weight (kg/hl)	77.8	78.4	77.9	78.4	76.9	75.6	77.8	76.6
Chopin Alveograph W	177	-	220	191	162	91	[134]	84
Chopin Alveograph P/L	0.7	-	0.6	0.6	0.5	0.3	[0.4]	0.3
<b>Agonomic features</b>								
Resistance to lodging without PGR (1-9)	7	8	7	7	6	8	[7]	[7]
Resistance to lodging with PGR (1-9)	8	8	8	8	7	8	8	8
Height without PGR (cm)	84	83	81	90	84	83	88	82
Ripening (days +/- Skyfall, -ve = earlier)	0	0	0	-1	0	+1	+1	+1
Resistance to sprouting (1-9)	5	5	6	[7]	5	[6]	[6]	[7]
<b>Disease resistance</b>								
Mildew (1-9)	7	6	6	7	7	5	4	5
Yellow rust (1-9) - see note below	5	3	9	8	9	7	9	7
Brown rust (1-9) - see note below	6	8	3	7	5	5	9	8
Septoria tritici (1-9)	6.4	5.8	6.3	8.0	6.5	6.8	7.4	7.0
Eyespot (1-9)	7@	6@	5	[4]	5	[4]	[5]	[5]
Fusarium ear blight (1-9)	6	7	6	6	5	5	6	5
Orange wheat blossom midge	-	R	-	-	-	R	R	R
<b>Breeder/UK contact</b>								
Breeder	KWS	RAGT	Lim	Mom	KWS	KWS	LimEur	LimEur
UK contact	KWS	RAGT	Lim	KWS	KWS	KWS	Lim	Lim
<b>Rotational position</b>								
First cereal (11.1 t/ha)	98	97	96	100	100	101	101	102
Second and more (9.5 t/ha)	99	97	95	101	98	101	100	102
<b>Sowing date (most trials were sown in October)</b>								
Early sown (before 25 Sept) (11.0 t/ha)	[102]	97	95	-	101	103	[105]	[109]
Late sown (after 1 Nov) (9.5 t/ha)	97	97	95	101	99	101	[101]	[103]
<b>Soil type (about 50% of trials are on medium soils)</b>								
Light soils (10.8 t/ha)	97	97	94	101	98	101	[99]	[102]
Heavy soils (10.9 t/ha)	99	97	97	100	100	103	103	103
<b>Agonomic features</b>								
Lodging % without PGR	4	2	3	4	21	2	3	3
Lodging % with PGR	1	2	2	1	7	1	1	4
Latest safe-sowing date #	End Jan	End Feb	End Jan	End Jan	End Jan	End Feb	[Mid Feb]	[Mid Feb]
<b>Speed of development to growth stage 31 (days +/- average)</b>								
Early sown (Sept)	-2	-2	+1	-3	-7	-2	-	-
Med sown (Oct)	-4	-3	0	-6	-5	-3	-	-
Late sown (Nov)	-2	-2	0	-3	-2	0	-	-
<b>Status in RL system</b>								
Year first listed	17	14	12	19	16	19	21	21

	Lo Skyscraper	RGT Saki	Lo Spotlight	KWS Cranium	Gleam	KWS Kerrin	Graham	RGT Wolverine	Costello	KWS Parkin
Soft Group 4	Soft Group 4			Hard Group 4						
101	105	104	103	104	103	102	102	102	99	102
103	105	104	102	104	103	102	101	101	99	102
80	81	85	78	78	81	74	87	72	80	81
Soft	Soft	Soft	Soft	Hard	Hard	Hard	Hard	Hard	Hard	Hard
11.7	11.6	11.6	11.5	11.3	11.5	10.9	11.5	11.2	12.1	11.3
[12.1]	12.2	12.0	12.1	[11.4]	12.0	11.4	11.9	[11.8]	12.7	11.9
255	214	227	288	277	217	148	279	274	326	259
76.5	76.8	75.9	78.0	75.4	76.3	76.2	76.8	75.9	80.8	76.3
87	-	-	[73]	-	-	-	-	[143]	-	-
0.2	-	-	[0.4]	-	-	-	-	[0.7]	-	-
[7]	7	7	7	[8]	7	7	7	[7]	7	8
7	7	7	8	8	7	7	8	8	8	8
88	92	88	93	88	87	86	88	86	82	79
+1	0	+3	+1	+2	0	+1	-1	+2	+2	-1
[6]	[5]	[6]	[7]	[6]	[5]	6	6	[6]	7	[6]
3	7	5	6	5	6	7	7	5	8	6
8	8	8	6	8	5	4	8	5	9	9
8	6	7	6	5	6	7	5	8	5	5
6.6	5.1	6.5	5.2	6.0	6.1	4.8	6.8	5.3	6.0	5.5
[4]	[4]	[5]	[5]	[5]	4	5	3	[5]	5	-
6	7	6	6	6	6	6	7	6	7	6
R	R	R	R	R	R	R	-	-	-	-
ElisW	LimEur	RAGT	LimEur	KWS	SyP	KWS	SyP	R2n	KWS	KWS
Els	Lim	RAGT	Lim	KWS	Syn	KWS	Syn	RAGT	Sen	KWS
101	104	104	103	104	103	102	102	102	100	100
102	104	104	101	103	103	103	101	101	98	100
-	[103]	[108]	101	-	103	[102]	100	-	98	100
[105]	103	[105]	101	[108]	103	103	99	[101]	100	100
[101]	104	103	102	[105]	102	103	102	[99]	98	101
103	105	103	103	103	103	101	102	102	99	103
11	9	11	5	1	5	8	7	4	3	-
4	10	4	2	3	4	9	2	3	1	-
[Mid Feb]	End Jan	[End Jan]	End Feb	[Mid Feb]	Mid Feb	End Jan	End Jan	[End Jan]	End Jan	End Jan
-	-5	[+8]	-4	-	+7	0	+3	-	-2	-
-	0	[+1]	-3	-	+2	+2	0	-	-1	-
-	-4	[0]	-1	-	+3	0	-3	-	-2	-
21	19	20	19	21	18	17	16	21	15	21

## GROUP 1



**KWS Zyatt** (parentage Hereford x Quartz) is the highest yielding Group 1 variety with full milling approval. It has relatively stiff straw and a good disease profile with a 5 for yellow rust and 6.4 for septoria tritici. It has performed well as a second wheat and on heavier land. It has a good specific weight and acceptable protein and hagberg levels. It is a well supported variety from local flour mills.



**Skyfall** (parentage C4148 x Hurricane) is a high yielding Group 1 bread-making variety, with short but stiff straw, it is the only Group 1 with resistance to OWBM but requires careful management for yellow rust. Skyfall develops very quickly, and must not be sown before the third week in September. It has good hagberg and specific weight. It is suitable for later drilling into March. It remains very popular on farm as both a milling and feed variety due to its flexibility.



**Crusoe** (parentage Cordiale x Gulliver) has the highest protein content of the Recommended Group 1 wheats with good grain quality characteristics and excellent milling potential. It has a rating of 9 for yellow rust and has good resistance to septoria tritici and mildew although it is very susceptible to Brown Rust. It has good lodging resistance and a short, stiff straw. Crusoe is still very popular with milling wheat growers due to its reliable grain quality.



# The Dynamic Wheat that's out of this world!



## KWS ZYATT

- Still the UK's highest yielding Group 1 breadmaking wheat
- Excellent disease resistance including best *Septoria* of Group 1s and Pch1
- Superb second wheat performance



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## GROUP 2



**KWS Extase** (parentage Boisseau x Solheio) was a new variety added to the AHDB Recommended List for 2019/20, with the highest untreated yield on the recommended list of 93% and high quality grain characteristics. A strong disease package, with a rating of 8.1 for septoria tritici and 9 for yellow rust. It is captivating growers in a world where genetic resistance is increasingly important. It is one of the earlier varieties to mature and has a wide drilling window.



**KWS Siskin** (parentage KWS Sterling x Timaru) is a very high yielding Group 2 variety. It has a relatively stiff straw and a good disease profile with good resistance to mildew, yellow rust, particularly septoria tritici (a rating of 6.6). It is suitable for the late drilling slot and is a very good 2nd wheat.

The complete package with  
*Septoria* protection built in!

WHEAT

## KWS EXTASE

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



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## GROUP 3



**KWS Firefly** (parentage Cougar x KWS Rowan) was a new variety on the AHDB Recommended List 2019/20 and has performed well in previous harvests. It is a high yielding variety, with a yield of 102% of controls in the East region. It has good all round resistance with a rating of 6.8 for Septoria tritici, 7 for yellow rust and is OWBM resistant.



**LG Astronomer** (parentage (Cougar x Leeds) x Britannia) is a new variety added to the AHDB Recommended List and in our opinion is superior to LG illuminate with an untreated yield of 86%, which is one of the highest on the recommended list behind KWS Extase. It has excellent resistance to both yellow and brown rust (9 for both) and a Septoria rating of 7.4. It has excellent grain quality and a high specific weight. We think this is a great all round variety which soft wheat growers should try this autumn.



**LG Illuminate** (parentage (Cougar x Leeds) x Britannia) is a new variety added to the AHDB Recommended List, with high treated and untreated yields, reflecting its strong disease package including Septoria and resistance to OWBM. It performs particularly well when sown early.

## MERIT

**Merit** (Britannia x Cougar) is a new variety added to the AHDB Recommended List. It offers a good yield and stiff straw. It has good resistance to brown, yellow rust, Septoria tritici and OWBM although is susceptible to mildew. It performs well in the late drilling slot and particularly suits heavier soils.

WHEAT

# WRITTEN IN THE STARS

# SECURITY

## LG ASTRONOMER

WINTER WHEAT

Agronomics and Quality you've been looking for

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Illuminate your wheat  
with a touch of magic!



## KWS FIREFLY

- Super wide sowing window with great yield potential from mid September to end of February
- Good disease package, including 6.8 for *Septoria* and OWBM resistance
- One of the stiffest varieties on the Recommended List



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WHEAT

## SHINING BRIGHT IN ALL SITUATIONS



**LG ILLUMINATE**  
WINTER WHEAT

Casts new light on flexibility of drilling, market  
options, growing regions & conditions

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Limagrain 

NEW

**Great disease package****Easier** to plan for spray inputs.**Higher Hagberg****Easier** to hit the right grain quality.**Flexible end use****Easier** to profit from the best market.**Thrives in the East****Easier** to manage all-round.

# Choosing a Group 3 soft?

## Merit makes it easier.

New Merit has huge potential as one of the easier to grow Group 3 soft wheats. Especially in the East, where it is highly recommended. Grain quality, yield consistency and, like its predecessors from Elsoms, flexible market access make it the easier-to-choose soft option. Grow it on its merits.

### MERIT

Winter Wheat

Speak to your seed merchant  
today about availability.

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The Seed Specialists

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## GROUP 4 – SOFT



**LG Skyscraper** (parentage (Cassius x NAWW29) x KWS **Santiago**) was new to the AHDB List in 2019/20. It is a soft milling Group 4 wheat which is the highest yielding winter wheat on the recommended list for soft categories. It offers a great combination of agronomic merits and grain quality. It is tall strawed requiring careful placement with good resistance for both yellow rust and septoria tritici and is OWMB resistant. One of the earlier varieties to ripen it performs very well on lighter land and is well suited to the 2nd wheat slot.



**RGT Saki** is a new variety added to the AHDB Recommended List in 2020. It is a soft milling feed variety offering very high yields. It has relatively stiff straw and is one of the later varieties to mature (+3). It has good resistance to both yellow and brown rust as well as septoria tritici with a rating of 6.8 and is OWMB resistant. For those looking for strong genetic resistance, RGT Saki is a good choice with an untreated yield of 86% suited to early drilling.



**LG Spotlight** (parentage **Scribe** x **Horatio**) was a new variety added to the AHDB Recommended List for 2019/20. A very high yielding, soft feed wheat, offering growers a strong agronomic package of disease resistance (OWBM resistant) combined with stiff straw and excellent grain quality. The variety has a very good specific weight, comparable with the best varieties on the AHDB Recommended List. LG Spotlight also has the highest Hagberg Falling Number of any soft wheat, an unusual but positive characteristic for a soft feed wheat, giving growers security when erratic weather conditions delay harvest. It performs well on heavier land.



# TOWERING YIELDS

STILL  
the Highest  
Yielding!

Highest  
Yielding\*  
2019  
★

Highest  
Yielding\*  
2020  
★★

Highest  
Yielding\*  
2021  
★★★



## LG SKYSCRAPER

Highest Yielding Recommended Winter Wheat

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

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WHEAT

## NOTHING MESSES WITH IT.

**RGT SEEDS** | Grow to expect the best

# RGT SAKI

G4 WINTER WHEAT

EXCEPTIONAL DISEASE RESISTANCE AND HIGH YIELDS,  
WHETHER TREATED OR UNTREATED.

CHARACTERISTICS:

- Consistent performer across all UK regions
- Excellent disease resistance
- One of the highest yielding G4 wheats
- Good straw strength



RGT Saki  
Recommended List 2020/21

Let's talk 01799 533700 or visit [ragtseeds.co.uk](http://ragtseeds.co.uk)



# LG SPOTLIGHT

WINTER WHEAT

“QUALITY, QUALITY, QUALITY”

“DON'T MISS THIS”

“GROUNDBREAKING”



## LG SPOTLIGHT

Soft feed wheat, with exceptional grain security

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\* AHDB Recommended List 2021/22

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## GROUP 4 – HARD



**KWS Cranium** (parentage KWS Crispin x KWS Kielder) is a new variety added to the AHDB Recommended List. It is a very high yielding feed variety with a good disease package. It performs particularly well when late drilled so would particularly suit growers with sugar beet or potatoes in the rotation and where drilling is delayed for grassweed control. It performs well in the 2nd wheat slot and is stiff strawed.



**Gleam** (parentage KWS Kielder x Hereford) is a very high yielding, hard milling variety which has performed well in both first and second rotations and suitable for early drilling. This variety is relatively stiff strawed with a good agronomic disease profile and resistance OWBM. A useful variety for growers looking to maximise feed yields.



**KWS Kerrin** (parentage KWS W177 x KWS Santiago) is a very high yielding, hard milling feed variety with relatively stiff straw and a solid disease profile (a rating of 7 for mildew, 4 for yellow rust and 7 for brown rust) and is resistant to OWBM. KWS Kerrin has performed well as a second wheat, as well as on light land and when late drilled. An older variety, but still popular on farm due to its consistent performance.



**Graham** (parentage Premio x Expert) is a high yielding, hard milling feed variety with relatively stiff straw. Its real strength comes in its disease resistance with a solid overall profile which includes good resistance to both yellow rust and septoria tritici. Graham is one of the earliest maturing wheats on the market for those looking to spread harvest workload. It performs better as a first wheat and is suitable for early drilling.



## GROUP 4 – HARD (CONT.)



**RGT Wolverine (OgTC2654xPanorama) x Coronation)** is an exciting new wheat variety in the Group 4 hard sector with BYDV resistance. It is the Bdv2 resistant gene that originates from a goat grass *Thinopyrum intermedium* (a distant wheat relative) that gives RGT Wolverine protection from BYDV. It has an average disease profile, excellent straw strength and solid grain quality. RGT Wolverine is suitable for early sowing.



**Costello (parentage W151 x Timaru)** is a high yielding, hard milling feed variety. Costello has an excellent specific weight, Hagberg Falling Number as well as a solid disease profile. It has a short, very stiff straw and is later to mature, useful for spreading workload at harvest. Whilst it has been on the market since 2015, it is still very popular with feed growers due to its reliability and grain quality.



**KWS Parkin (parentage Reflection x Costello)** is a high yielding, feed variety with the shortest straw out of all the wheat varieties on the recommended list. It is also earlier to mature than any other recommended variety. With very good yield potential (comparable with Graham or KWS Kerrin), the variety has a solid disease resistance package, with no major agronomic weaknesses and a strong grain profile with a good specific weight (76.3 kg/hl). A great choice for farmers looking to spread the workload at harvest. KWS Parkin is ideal for traditional Grafton growers wanting something that will drill early and is early to mature.



## The thinking farmer's wheat!

### KWS CRANIUM

- Best combination of yield, yellow rust and OWBM on the 2021/22 RL
- Exceptionally stiff strawed
- Outstanding late drilled performance

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# adaptable

(adj.) able to change in order  
to suit different conditions



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

Flexible drilling window • Excellent yield stability • High yields



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WHEAT

**BYDV DOESN'T STAND MUCH OF A CHANCE.**



## RGT WOLVERINE

**BYDV RESISTANT WINTER WHEAT**

**GENETIC SOLUTIONS DELIVERING**

EUROPE'S FIRST BYDV RESISTANT, HIGH YIELDING WINTER WHEAT.

**COMPLETE PACKAGE CHARACTERISTICS:**

- Consistent performer across all UK regions
- Early sowing potential
- Good grain quality
- Excellent straw strength



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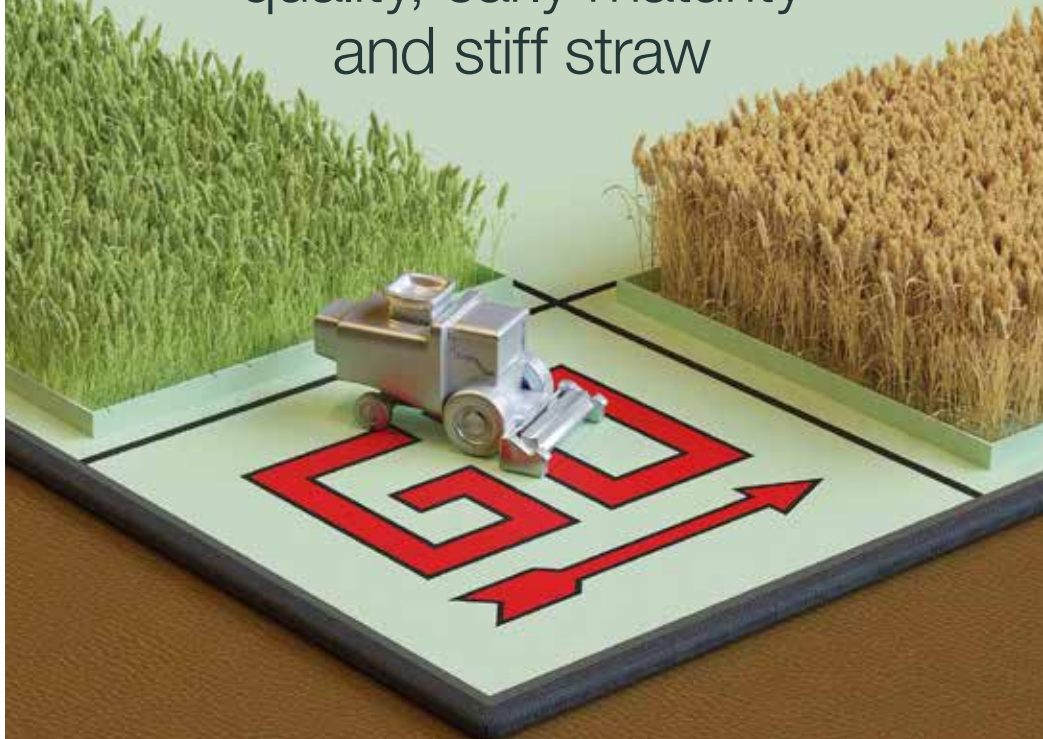


RGT Wolverine.  
Recommended  
list 2021/22.

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The unique wheat with grain quality, early maturity and stiff straw



## KWS PARKIN

- A unique type, unlike any variety on the current RL
- Earlier maturity than any Recommended variety
- Shorter and stiffer strawed than any wheat on the 2021/22 RL



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## 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 Extase	25th Sept - End Jan	Good
KWS Siskin	25th Sept - End Jan	Good
KWS Firefly	15th Sept - End Feb	Good
LG Astronomer	15 Sept - Mid Feb	Good (limited data)
LG Illuminate	15 Sept - Mid Feb	Good (limited data)
Merit	1 Oct - End feb	Very good
LG Skyscraper	25th Sept - End Jan	Good
RGT Saki	Mid Sept - End Jan	Good
LG Spotlight	25th Sept - End Feb	1st wheat preferred
KWS Cranium	Mid Sept - End Jan	Excellent
Gleam	1st Sept - Mid Feb	Excellent
KWS Kerrin	25th Sept - End Jan	Excellent
Graham	1st Sept - End Jan	1st wheat preferred
RGT Wolverine	10 Sept - End Jan	Good
Costello	12th Sept - End Jan	1st wheat preferred
KWS Parkin	1st Sept - End Jan	Good

## WINTER OATS



**Mascani** is the most popular oat milling variety. It benefits from a combination of high kernel content and specific weight with large grains and low screening losses. Mascani has the best disease package of all the husked winter oats on the market. Mascani remains the most popular winter oat with millers.



**RGT Southwark** is the highest yielding winter oat variety on the AHDB Recommended List. It offers a decent specific weight but has relatively weak straw and is susceptible to mildew. It is early to mature and harvest.



**RGT Lineout** offers a high yield, moderately stiff straw and is the earliest maturing winter oat on the AHDB Recommended List. It has a decent resistance to crown rust but needs watching for mildew.



**Dalguise** is an early maturing variety with a good specific weight and decent grain quality. It has a relatively long straw with weak lodging resistance, is susceptible to crown rust and mildew. Requires a managed fungicide programme to attain its potential.

## WINTER RYE



**KWS Serafino** A new hybrid variety added to the AHDB recommended list this year with significantly improved yield potential compared to all its competitors at 111%. It has medium tall straw, a good specific weight and Hagberg falling number and a moderate protein content. It has the best resistance to brown rust of all varieties. KWS Serafino uses the Rfp gene to produce increased volumes of pollen (PollenPlus) which improves the rate of fertilisation, providing protection against ergot. It is a multi-purpose for both grain and AD production.

### SU PERFORMER

**SU Performer** The second highest yielding hybrid rye on the recommended list with a treated yield of 106%. It has medium tall straw, a good specific weight and Hagberg falling number and a moderate protein content. It is a dual purpose variety for grain and AD production.



**KWS Tayo** is a new addition to the KWS hybrid rye lineup for 2020/21 and is currently in UK AHDB grain trials. It has a yield of 112% and good grain quality. It has the new generation pollen plus gene with excellent stem stiffness. It is a dual purpose variety for grain and AD production.

## THE MILLERS' FAVOURITE



# Mascani

WINTER OAT



- Number 1 UK winter oat variety
- Excellent disease resistance
- High kernel content and specific weight
- Large grains and low screening losses
- Top quality milling variety



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## KWS TAYO

- The brand new addition to the AHDB Descriptive List
- New generation PollenPlus® hybrid with excellent stem stiffness
- Multipurpose hybrid (AD or grain; feed, flour and distilling)



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WINTER OATS/RYE

# WINTER OILSEED RAPE

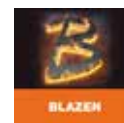
	HYBRID	HYBRID	HYBRID	HYBRID	HYBRID
Variety Characteristic	DK Exstar	Aurelia	Artemis	Avron	Flemming
Available on establishment scheme	Yes	No	No	No	No
Breeder	DEKALB	LIMAGRAIN	LIMAGRAIN	LIMAGRAIN	LSPB
2021/22 Recommended List approved	No	Yes	Yes	Yes	Candidate
Gross output %	105	107	107	108	107
Oil Content (%)	45.3	45.3	45.6	44.5	45
Pod Shatter Resistance	Yes	Yes	Yes	Yes	No
Agronomy					
Lodging Resistance (1-9)	9	8	8	7	9
Height (cm)	162	155	164	161	146
Stem Stiffness (1-9)	8	8	8	6	9
Earliness of flowering (1-9)	6	7	6	8	5
Earliness of maturity (1-9)	6	5	6	6	5
TuYV resistance	No	Yes	Yes	Yes	Yes
Disease Resistance					
Light Leaf Spot (1-9)	8	7	6	7	7
Stem Canker (1-9)	8	7	6	7	8

## CONVENTIONAL



**Acacia** is the highest yielding conventional variety on the recommended list with a very high gross output. Acacia is very vigorous in both the autumn and spring, a very important attribute for the establishment of winter oilseed rape. A short, very stiff stemmed variety and very good lodging resistance, with medium early flowering and medium late maturity, giving the crop a longer grain fill period. It has moderate resistance to light leaf spot and is moderately susceptible to stem canker. It has an above average oil content. Acacia has shown very high consistent annual performance in some very different environmental seasons, an attribute of great importance for on-farm performance. Acacia is an Anastasia cross and was the most popular conventional variety sown last autumn.

	CONVENTIONAL	CONVENTIONAL	CLEARFIELD	CLEARFIELD
Variety Characteristic	Blazen	Acacia	DK Imprint CL	Plurax CL
Available on establishment scheme	Yes	No	No	No
Breeder	KWS	LIMAGRAIN	DEKALB	DSV
2021/22 Recommended List approved	Yes	Yes	No	No
Gross output %	101	107	91	104
Oil Content (%)	44.7	45.7	43.3	45.6
Pod Shatter Resistance	No	Yes	Yes	No
Agronomy				
Lodging Resistance (1-9)	8	8	9	9
Height (cm)/(1-9)	152	150	6	155
Stem Stiffness (1-9)	9	8	7	9
Earliness of flowering (1-9)	6	7	4	7
Earliness of maturity (1-9)	5	5	6	7
TuYV resistance	No	No	No	No
Disease Resistance				
Light Leaf Spot (1-9)	6	7	6	7
Stem Canker (1-9)	6	7	8	6



**Blazen** is a good yielding conventional variety with short, stiff straw and good resistance to stem canker and light leaf spot. One of its key characteristics is its rapid autumn and spring vigour to help with the challenges of flea beetle.

Blazen is marketed under the Oilseed Establishment Partnership (OEP), which shares the risk of establishment between KWS and the grower. The royalty payment is only paid when the established area of crop is registered by 1 November 2021. With the present challenges of growing oilseed rape, we believe this variety reduces upfront financial risk for growers, where oilseed rape is still an important part of the crop rotation. For further information, please contact the office.

**We can supply most of the conventional oilseed rape varieties. Please call the office to discuss your specific requirements.**



DK Exstar

# Risk buster



The #DEKALBdifference in OSR

**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 first choice for early drilling**



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## HYBRID



**DK Exstar** Exstar offers growers a breakthrough variety in all round reliability and flexible agronomy with a score of 8 for Light Leaf Spot, Stem Canker and Stem Stiffness – not forgetting the double phoma and pod shatter resistance genes. It offers a rapid autumn growth habit, early spring re-growth and a wide drilling window. DK Exstar is available on an establishment scheme to help with the financial risk of the increasing challenges of cabbage stem flea beetle (CSFB) to oilseed rape growers. Please enquire for more details.



**Aurelia** is an exceptional, very high yielding hybrid variety (third on the recommended list) showing consistent performance across all regions and seasons. The variety offers an outstanding package of genetic traits including TuYV resistance and pod shatter resistance. Aurelia has very good autumn and spring vigour, allowing the best chance of good establishment. Aurelia has RLM7 plus quantitative resistance, giving the variety a strong 7 rating for protection against stem canker. It also has a 8 rating for light leaf spot. The variety is medium in height with ratings of 7 for stem stiffness and lodging resistance. It is medium – early to flower and medium for maturity, ensuring less damage from any late frosts, as well as allowing maximum green leaf canopy duration for maximum yield potential. Aurelia was very popular on farm last autumn.



**Aviron** is the second highest yielding variety on the 2021/22 Recommended List. Like many of the other Limagrain varieties, it offers growers TuYV and pod shatter resistance as well as a good disease package. Its stand out characteristics are its exceptional autumn vigour and flexibility for later sowing. It is a taller strawed variety with reasonable stem stiffness. An ideal choice for those that drill oilseed rape after crops such as spring barley that will get out the ground very quickly to grow away from pest pressure.



**Artemis** is the fourth highest hybrid variety on the recommended list with a gross output of 107 for the east. The variety offers an outstanding package of genetic traits including TuYV resistance, pod shatter resistance and RLM7 protection against stem canker. Artemis is a very consistent variety with strong autumn and spring vigour. It is one of the taller hybrids with excellent stem stiffness.

## FLEMMING

**Flemming** is a LSPB hybrid variety and is a Candidate on the 21/22 list. It has high resistance to stem canker from a new major Phoma resistance gene called RLmS and is also resistant to TuTV. It has a high gross output, good stem stiffness (9) and resistance to lodging (9).

**We can supply most of the hybrid oilseed rape varieties. Please call the office to discuss your specific requirements.**



## CLEARFIELD VARIETIES



Conventionally bred hybrid varieties that tolerate Clearfield herbicides (Cleranda and Cleravo). Specifically bred to combine clearfield technology and Dekalb's yield protecting traits: pod shatter resistance, double phoma resistance and vigorous establishment.



**DK Imprint CL** is a new addition to the recommended list for 21/22 and is the next step forward in the Clearfield technology. It is a very useful option for land with intractable brassica weed problems or with high levels of OSR volunteers. It has a gross output of 95% with a strong combination of disease resistance, pod shatter and lodging resistance. It scores a 6 for light leaf spot and 8 for stem canker. It is medium to flower and has average maturity. DK Imprint CL is available on an establishment scheme to help with the financial risk of the increasing challenges of cabbage stem flea beetle to oilseed rape growers. Please enquire for more details.

### PLURAX CL

**Plurax CL** is one of the latest Clearfield varieties from DSV. It has excellent early vigour, good yield's and oil content, as well as strong tolerance to Verticillium Wilt. It is one of the earliest Clearfield varieties to flower producing very high seed yields from NIAB 2020-21 trials. It offers an excellent disease profile and is stiff strawed. Suitable for sowing on all soil types.

**We can supply most other oilseed rape varieties.**  
Please call the office to discuss your specific requirements.

## WINTER BEANS



**Vespa** is the highest yielding variety on the PGRO Descriptive List 2021, with a moderately short straw, very good standing at harvest and a large seed size. It is slightly earlier to ripen than tundra with a high protein content. Suited for both feed and human consumption markets.



**Tundra** is the second highest yielding winter bean variety with short plants, early maturity and moderately good standing ability. It is a pale hilum variety with a small to medium seed size and a general suitability for export with a high protein content.



# VESPA

## Winter Bean

### The Winter Bean creating a real buzz!

**With the highest available 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

**NOW AVAILABLE**

Download the fifth  
edition of our popular  
winter bean growers guide  
at [www.senova.uk.com](http://www.senova.uk.com) or  
[www.winter-beans.co.uk](http://www.winter-beans.co.uk)



**Other Senova winter bean varieties:**



Tel 01223 890777 • [info@senova.uk.com](mailto:info@senova.uk.com) • [@SenovaLtd](https://twitter.com/SenovaLtd)  
[www.senova.uk.com](http://www.senova.uk.com)

# Your seed treatment *choice matters.*

The start of a new growing season is your opportunity to control the hidden diseases which can impact your harvest. Redigo Pro provides the **broadest protection** from **all major seed- & soil-borne diseases** in your barley & wheat crops and can also help **reduce ergot contamination**<sup>\*1</sup>. 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](http://cropscience.bayer.co.uk/hiddendiseases)



Ergot is the third most common cause of load rejection upon sale for malting barley<sup>\*2</sup>

<sup>\*1</sup>Based on CRD-approved label recommendations on 6th June 2018. All details correct at time of going to press.

<sup>\*2</sup>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](http://www.cropscience.bayer.co.uk) or call 0800 1969522. © Bayer CropScience Limited 2021



**REDIGO  
PRO**

## SEED DRESSINGS

### SINGLE PURPOSE



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

Active substances: Prothioconazole 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](http://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](http://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](http://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 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](http://www.agrcentre.basf.co.uk)

## CHANGE YOUR PERSPECTIVE FOCUS ON ROOT HEALTH & ENHANCE ESTABLISHMENT

Now approved for use  
on the following crops:

- ✓ Winter wheat
- ✓ Spring wheat
- ✓ Winter barley
- ✓ Spring barley



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VIBRANCE® Duo, ROOTING POWER™ and the SYNGENTA logo are Trademarks of a Syngenta Group Company. VIBRANCE® Duo (MAPP 17838) contains fludioxonil and sedaxane. Use plant protection products safely. Always read the label and product information before use. For further product information including warning phrases and symbols refer to [www.syngenta.co.uk](http://www.syngenta.co.uk) March 2021. 11403



## SPECIALIST DRESSINGS



### Latitude – winter wheat & barley

125 g / litre (11.83% w/w) of Silthiofam. The only specialist take-all 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](http://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 leaf 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
- 40g/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

**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.

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.

## CEREAL SEED DRESSINGS AUTUMN 2021

		Cereal Seed Dressings Autumn 2021							
		Manganese Trio	Kick Off	Signal	Latitude	Kinto Plus	Vibrance Duo	Redigo pro	Raxil Star (Winter Barley only)
Key Diseases	Seedling Blights					*	(*)	*	*
	Loose Smut					*	*	*	*
	Covered Smut					*	*	*	*
	Bunt (seed and soil)					*	*		
	Septoria (seedling)						*		
	Leaf stripe					*	*	*	*
	Net Blotch (seedling)								*
	Ergot								
	Blue Moulds							(*)	
	Take-all				*		(*)		
Key Pests	Septoria tritici								
	Wireworm			*					
	Wheat bulb fly			*					
	Gout fly								
	Frit Fly								
Seedling Nutrition		*	*			*	*		

Key: \* = control / suppression  
(\*) = partial control / suppression



## OTHER MIXTURES

### We now sell an even wider range of:

- Soil improvement mixes
- Greening / catch and cover crop mixes
- Root and fodder seed
- Grass seed mixtures
- Game cover mixtures
- Wildflower mixtures

### ENVIRONMENTAL AND GAME COVER MIXTURES

As we enter the BPS '7- year transition phase out period' with payments to be cut between 5-25% in 2021, the government have made it clear that future payment schemes will be more environmentally focused.

The new 'Countryside Stewardship Offers' and 'Environmental Land Management Schemes' (ELMs) are becoming more popular on farms, as businesses prepare for future changes. The new schemes offer a range of options for growers to choose from, so that entering into the new environmental offers can complement existing enterprises within businesses.



### AUTUMN ENVIRONMENTAL MIXES



**Bumblebird Mixes:** Designed to benefit insects during summer months and wild birds in autumn. Autumn sown.



**Pollen and Nectar Mixes:** Designed to benefit butterflies and bees. Spring sown.



**Wild Flower Meadow Mixes:** Mixtures of native flower and grass species to help re-instate the decline in native plant populations and meadows. Provides excellent pollen and nectar sources for birds, butterflies and mammals. Spring sown.

### COVER CROP SPECIES



**Rye:** Good weed suppressant. Excellent nitrogen lifter and holds nitrogen in the soil for subsequent crops. Improves soil structure. It provides good green manure either on its own or with other components such as vetch, mustard and phacelia.



**Oats:** Provides quick ground cover and is an excellent weed suppressant. Mycorrhizal roots and alleopathic compounds help break disease cycles in soil. Improves soil structure and suppresses nematodes.



**Vetch:** Excellent nitrogen fixer and improves soil structure. Ideal companion in mixes with rye and oats. Best results when drilled early.



**Oil/Fodder Radish:** Excellent green manure. Deep roots improve soil structure and break through compaction to improve drainage. Suppresses nematodes. Can be used in game cover.





**Stubble Turnips:** Good soil conditioner – lifts and holds nitrogen for following crops. Good feed source for livestock.



**Brown Mustard:** Good green manure crop that lifts and holds nitrogen for following crops. Improves soil structure and increases organic matter. More winter hardy than yellow mustard and used for its biofumigant activity on weeds and pests – particularly nematodes.



**Mustard:** An excellent source of early season cover – usually used as part of a mix. Wide drilling window from spring through to late September. Mustard makes a good autumn 'Rescue Mix' when sown with other species such as fodder radish, stubble turnips and forage rape. Not very winter hardy (Brown Mustard will maintain cover until February).

## OTHER FEED AND GRASS MIXTURES



**Stubble Turnip:** Fast growing excellent autumn/winter feed source. Several varieties available.



**Grass and Herbal Ley Mixtures:** Various mixes available depending on use.

## 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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