



SEED BROCHURE 2020





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HARVEST 2020

After one of the wettest autumns on record, many farms across the country still have winter seed sat in the shed which will now have to wait until autumn 2020 to be drilled. For those in this situation, we recommend that any over-year seed is kept dry and on pallets over the coming months to preserve quality and germ. Some seed dressings do impact the germination ability of seed when sat in a bag for a significant period of time, therefore we advise growers to send samples for a full grow on test prior to drilling in the coming autumn.

Please contact the office if you would like a test arranging for your over-year seed, please note that it takes 2 weeks to get the results.

Due to the weather challenges of autumn 2019 and the lack of both commercial and seed crop winter cereals drilled, some varieties are likely to be in short supply this year – in particular KWS Firefly and

KWS Extase. For growers fortunate enough to have these varieties in the ground, we recommend farm saving as a good option for autumn 2020, as long as the germination meets requirements.

Farm saved seed is cleaned and treated to the same specification as our certified seed, which is of a very high quality in comparison to farm saved seed done through a mobile dresser. Haulage can be arranged both in and out or alternatively farmers may haul with a tractor and trailer.

To prepare for autumn 2020, we have over-year seed some of our 2019 seed crops in order to offer early delivery of seed onto farm, prior to harvest for those that want it. Please contact the office if this is something you are interested in.

As many of you are aware, Phil Naylor retired after 22 years at Mortimers at the end of autumn 2019. Mark Denley, who previously worked for Clugstons at Bradshaw's flour mill, worked closely with Phil last harvest and is now working directly with Chris Johnson in the warehouse to ensure our seed is produced to the highest standards.

We are delighted to announce that Stuart Rowley will be joining us in July this year. Stuart will spend time learning all aspects of our business over the coming years - we look forward to introducing you to him over the coming months.

At Mortimer's, we work with all the leading seed breeders and seed treatment manufacturers in the industry to offer our customers the highest quality seed, produced by quality Wolds growers.

Our fully qualified crop inspectors regularly walk and inspect the growing seed crops throughout the season to ensure the cleanliness and quality of our seed.

With ever increasing regulation changes in the agro-chemical industry and the loss of many key active ingredients, the genetics of seed is becoming increasingly important for control of disease, increasing yields and the quality of both grain and straw. Here at Mortimer's we are currently planning our own crop trials for next season to ensure we can offer you the best varieties coming through the plant breeding programmes, as well as a platform for our customers to see varieties on a farm scale to assist with agronomic decisions for their business.

We would like to take this opportunity of thanking you for your continued support and look forward to doing business in harvest 2020.

ABOUT US

James Mortimer Limited 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 ensures thorough cleaning and accurate chemical application of all cereals and pulses and James Mortimer Ltd 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, or alternatively we can arrange for your grain to be collected and brought back to farm. We can also arrange for germination and thousand grain weight testing. If 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.

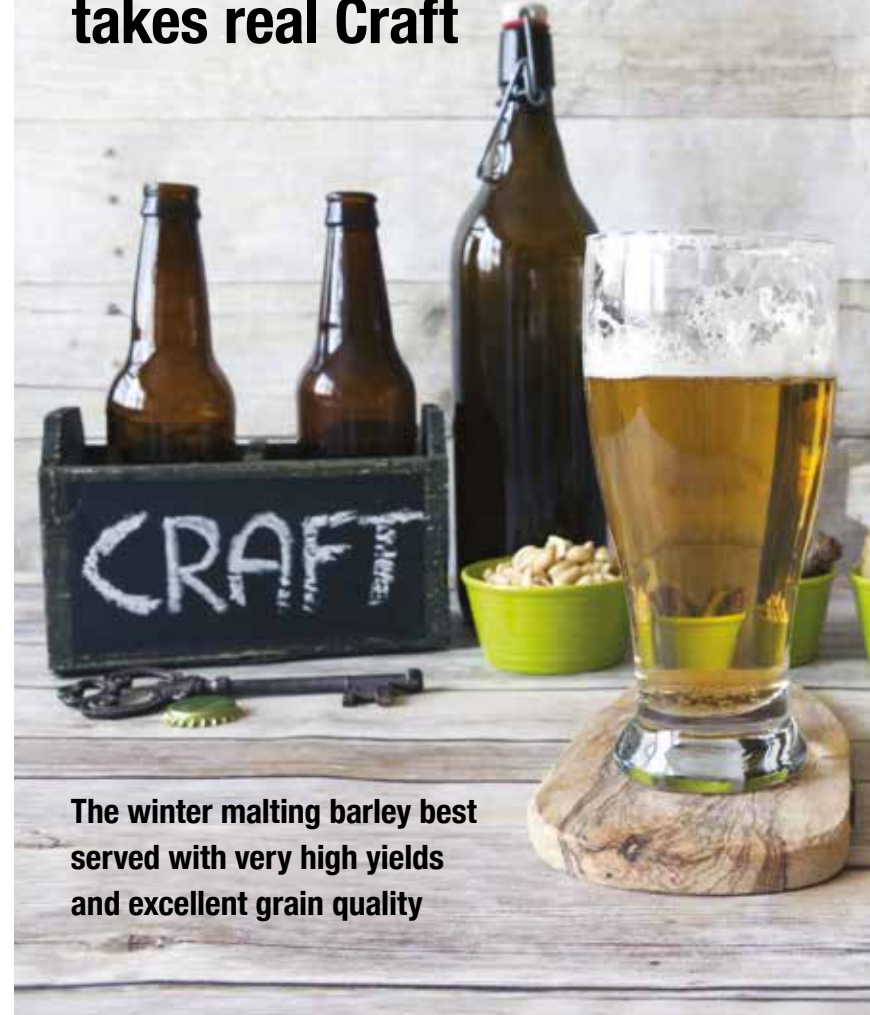
Alternatively, you are free to pay royalty on a hectare basis. Full guidance is available on request. We have our own on site weighbridge: farm saved seed will be weighed in and screenings will be credited with their feed value at the time. Our emphasis is on quality when cleaning and treating your farm saved seed. Our Cimbria seed cleaning equipment ensures the seed is cleaned to a very high 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 will be offering a very comprehensive selection of wheat, barley, oilseed rape, oat and bean varieties. 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.

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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Winter barley 2020/21



	KWS Hawking	KWS Gimlet	KWS Orwell	Valerie	Surge	KWS Cassia
End-use group	Two-row feed					
Fungicide-treated grain yield (% treated control)						
United Kingdom (10.0 t/ha)	104	103	102	101	101	97
East region (9.9 t/ha)	106	106	102	102	102	97
Untreated grain yield (% treated control)						
United Kingdom (10.0 t/ha)	83	83	80	86	87	81
Main market options						
MBC malting approval for brewing use	-	-	-	-	-	-
Grain quality						
Specific weight (kg/hl)	68.5	68.3	67.9	70.2	69.3	71.2
Screenings (% through 2.25 mm)	2.7	2.5	2.0	0.8	1.9	1.6
Screenings (% through 2.5 mm)	8.3	7.9	6.3	2.0	6.0	5.3
Nitrogen content (%)	-	-	-	-	-	-
Year first listed	20	19	16	19	16	10
Fungicide-treated grain yield (% treated control)						
United Kingdom (10.0 t/ha)	104	103	102	101	101	97
East region (9.9 t/ha)	106	106	102	102	102	97
Untreated grain yield (% treated control)						
United Kingdom (10.0 t/ha)	83	83	80	86	87	81
Agronomic features						
Resistance to lodging (1–9)	7	7	8	8	7	7
Straw height without PGR (cm)	[90]	98	86	89	86	91
Straw height with PGR (cm)	84	92	84	85	84	88
Ripening (+/-KWS Orwell, -ve = earlier)	0	0	0	-1	-1	0
Disease resistance						
Mildew (1–9)	5	6	3	6	6	4
Yellow rust (1–9)	-	-	[7]	-	[8]	[5]
Brown rust (1–9)	6	6	7	9	8	7
Rhynchosporium (1–9)	6	6	6	6	7	5
Net blotch (1–9)	6	6	5	6	6	6
BaYMV	R	R	R	R	R	R
Breeder/UK contact						
Breeder	KWS	KWS	KWS	Bre	SyP	KWS
UK contact	KWS	KWS	KWS	Sen	Syn	KWS
Annual treated yield (% control)						
2018 (10.2 t/ha)	104	102	101	102	100	98
2019 (9.9 t/ha)	103	104	101	-	102	98
Soil type (about 50% of trials are medium soils)						
Light soils (9.9 t/ha)	102	102	100	101	100	97
Heavy soils (9.8 t/ha)	106	104	102	[101]	102	97
Agronomic characteristics						
Lodging without PGR (%)	8	16	2	4	4	4
Lodging with PGR (%)	2	6	2	1	3	3
Year first listed	20	19	16	19	16	10



	Belmont \$	SY Kingsham \$	Bazooka \$	Electrum	Craft
End-use group	Six-row feed			Malting	
Fungicide-treated grain yield (% treated control)					
United Kingdom (10.0 t/ha)	108	108	106	97	96
East region (9.9 t/ha)	108	108	107	98	96
Untreated grain yield (% treated control)					
United Kingdom (10.0 t/ha)	77	88	87	79	77
Main market options					
MBC malting approval for brewing use	-	-	-	P	F
Grain quality					
Specific weight (kg/hl)	68.5	69.8	68.9	69.3	69.4
Screenings (% through 2.25 mm)	2.5	1.8	2.4	2.2	1.9
Screenings (% through 2.5 mm)	9.5	7.0	8.8	6.7	6.4
Nitrogen content (%)	-	-	-	1.68	1.66
Year first listed	18	19	16	18	16
Fungicide-treated grain yield (% treated control)					
United Kingdom (10.0 t/ha)	108	108	106	97	96
East region (9.9 t/ha)	108	108	107	98	96
Untreated grain yield (% treated control)					
United Kingdom (10.0 t/ha)	77	88	87	79	77
Agronomic features					
Resistance to lodging (1–9)	7	7	7	7	8
Straw height without PGR (cm)	109	111	114	92	89
Straw height with PGR (cm)	104	101	107	88	87
Ripening (+/-KWS Orwell, -ve = earlier)	-1	-1	-1	-2	0
Disease resistance					
Mildew (1–9)	5	6	5	6	6
Yellow rust (1–9)	-	-	[9]	-	[8]
Brown rust (1–9)	4	5	5	6	6
Rhynchosporium (1–9)	6	6	6	7	6
Net blotch (1–9)	6	5	6	6	6
BaYMV	R	R	R	R	R
Breeder/UK contact					
Breeder	SyP	SyP	SyP	SyP	SyP
UK contact	Syn	Syn	Syn	Syn	Syn
Annual treated yield (% control)					
2018 (10.2 t/ha)	108	107	104	97	97
2019 (9.9 t/ha)	107	108	106	98	96
Soil type (about 50% of trials are medium soils)					
Light soils (9.9 t/ha)	106	106	105	96	96
Heavy soils (9.8 t/ha)	107	108	107	97	94
Agronomic characteristics					
Lodging without PGR (%)	9	7	5	7	3
Lodging with PGR (%)	9	2	4	4	2
Year first listed	18	19	16	18	16

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.



Electrum (parentage SY208-56 x SY208-59) Electrum has moderately high yields combined with malting potential and has provisional 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 Hawking (parentage 11-12 x California) x KWS Tower) KWS Hawking is a new variety added to the AHDB Recommended List and is the highest yielding winter barley with a treated yield of 106% in our region. It has short, relatively stiff straw and moderate disease resistance, with 6 for brown rust, ryhnchosporuim and net blotch with BaYMV resistance. It is moderately susceptible to mildew. It also has a good specific weight.



KWS Gimlet (parentage (California x Matros) x KWS Glacier). A new variety added to the AHDB Recommended List in 2019. KWS Gimlet is a very high yielding two row feed variety with good quality tall, stiff straw requiring management. It has a moderate disease package with resistance to BaYMV and a good specific weight.



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 susceptible to mildew.



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 moderate resistance to both Rhynchosporium and Net Blotch with a rating of 6 for 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



KWS Cassia (parentage (Eden x Carat) x Saffron) is a two row feed variety with moderately high 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.



Surge (parentage SJO53088 x Flight) is a high yielding feed variety with relatively good straw strength. It has good resistance to both Rhynchosporium and net blotch. Surge also benefits from resistance to BaYMV and a good specific weight

HYBRID



Belmont is the highest yielding six row feed hybrid barley on the AHDB Recommended List. It has stiff straw making it one of the easiest hybrids to manage, suitable for all soil types and performs well even on marginal land. Belmont has high resistance to Rhynchosporium but is susceptible to brown rust. It is resistant to the common strains of barley mosaic viruses.



SY Kingsbarn New to the AHDB list in 2019, SY Kingsbarn is a 6 row hybrid with very high yields and tops the specific weight of all hybrids at 69.8kg/hl. With slightly taller, but relatively stiff straw in comparison to Belmont, it also has a strong disease package with 6 for mildew and resistance to BaYMV.



Bazooka (parentage F1 hybrid) is a six row hybrid feed variety, high yielding with tall but stiff straw. It has good disease resistance with moderate resistance to Rhynchosporium, resistance to BaYMV and moderate resistance to net blotch. Bazooka produces grain with a good specific weight but requires a careful PDR programme. Bazooka is a useful hybrid for grass weed suppression.

The next step in winter barley
headline yield!

KWS HAWKING

- The UK's highest yielding 2-row winter barley, performing especially well in the AHDB East and West
- Early to mature
- Excellent grain quality



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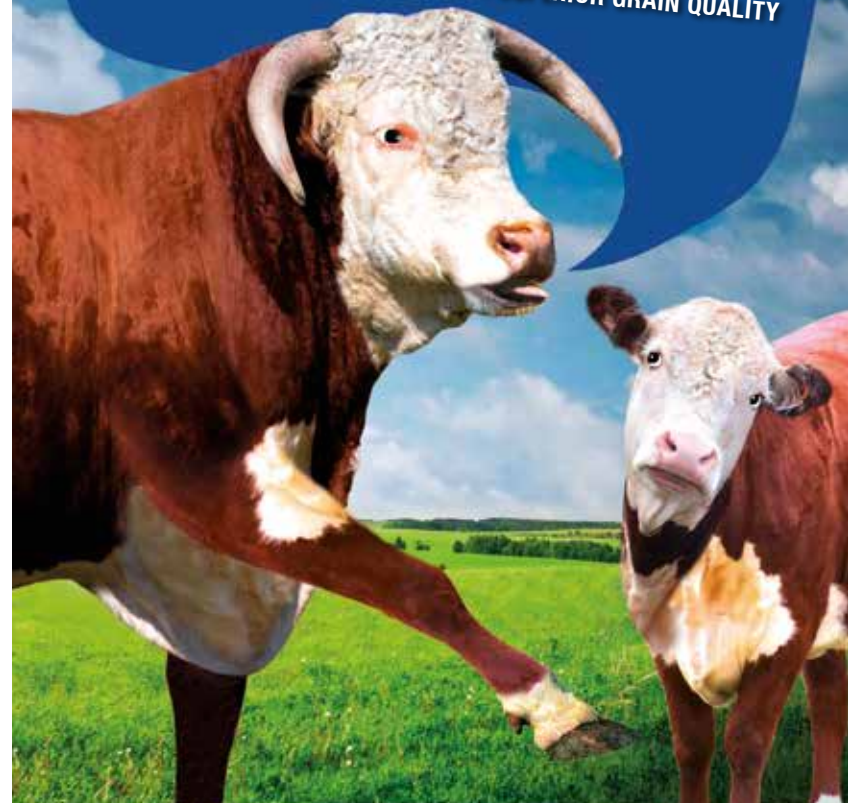
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WHEAT

James Mortimer Ltd – Winter Wheat Recommended List 2020/21



	KWS Zyatt	Skyfall	Crusoe	KWS Extase	KWS Siskin	LG Detroit	KWS Firefly	Elicit
End-use group	nabim Group 1			nabim Group 2			nabim Group 3	
Fungicide-treated grain yield (% treated control)								
United Kingdom (11.2 t/ha)	99	97	96	101	101	100	102	100
East	99	97	96	100	101	100	102	99
Grain quality								
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft
Protein content (%)	12.4	12.4	12.9	12.0	11.9	12.3	11.9	11.7
Protein content (%) - Milling spec	13.2	13.3	13.5	12.6	12.6	12.9	12.6	12.3
Hagberg Falling Number	269	278	273	297	286	279	245	216
Specific weight (kg/hl)	77.8	78.3	77.9	78.4	77.2	77.6	75.8	76.9
Chopin alveograph W	181	-	217	199	164	212	[90]	90
Chopin alveograph P/L	0.7	-	0.6	0.6	0.5	0.7	[0.3]	0.3
Untreated grain yield (% treated control)								
United Kingdom (11.2 t/ha)	83	78	71	95	83	77	84	81
Agronomic features								
Resistance to lodging without PGR (1-9)	7	8	7	7	6	8	8	7
Resistance to lodging with PGR (1-9)	8	8	8	8	7	7	8	8
Height without PGR (cm)	84	83	81	90	84	85	82	85
Ripening (days +/- Skyfall, -ve = earlier)	0	0	0	0	0	+1	+1	+1
Resistance to sprouting (1-9)	[5]	5	6	[7]	5	[6]	[6]	[5]
Disease resistance								
Mildew (1-9)	7	6	6	6	8	5	5	6
Yellow rust	7	5	9	9	9	9	9	9
Brown rust	6	8	3	7	5	5	6	7
Septoria nodorum (1-9)	[6]	[6]	[6]	-	[6]	-	-	[6]
Septoria tritici (1-9)	6.4	5.8	6.2	8.1	6.6	5.3	7.0	5.5
Eyespot (1-9)	7@	6@	5	[4]	5	[5]	[4]	4
Fusarium ear blight (1-9)	6	7	6	6	5	7	5	6
Orange wheat blossom midge	-	R	-	-	-	R	R	R
Breeder/UK contact								
Breeder	KWS	RAGT	Lim	Mom	KWS	LimEur	KWS	ElsW
UK contact	KWS	RAGT	Lim	KWS	KWS	Lim	KWS	Els
Rotational position								
First cereal (11.6 t/ha)	98	97	96	101	100	99	102	100
Second and more (9.8 t/ha)	99	98	93	100	100	100	100	100
Sowing date (most trials were sown in October)								
Early sown (before 25 Sept) (11.2 t/ha)	[104]	98	95	-	102	-	[103]	100
Late sown (after 1 Nov) (9.6 t/ha)	97	97	94	[102]	100	[99]	[102]	97
Soil type (about 50% of trials are on medium soils)								
Light soils (11.1 t/ha)	97	97	94	103	99	99	101	99
Heavy soils (11.3 t/ha)	100	97	97	101	101	101	103	99
Agronomic features								
Lodging % without PGR	3	1	2	3	17	1	1	5
Lodging % with PGR	1	2	3	2	7	4	1	3
Latest safe sowing date #	End Jan	End Feb	End Jan	[End Jan]	End Jan	[End Jan]	[End Feb]	End Jan
Speed of development to growth stage 31 (days +/- average)								
Early sown (Sept)	-3	-3	0	[-5]	-8	[+6]	[-4]	-2
Med sown (Oct)	-4	-3	-1	[-8]	-5	[+3]	[-3]	+3
Late sown (Nov)	-2	-2	-1	[-2]	-3	[+1]	[+1]	+2
Status in RL system								
Year first listed	17	14	12	19	16	19	19	18

LG Skyscraper	RGT Saki	LG Spotlight	LG Motown	Revelation	SY Insitor	Gleam	RGT Gravity	KWS Kerrin	Graham	Costello	KWS Parkin
Soft Group 4					Hard Group 4						
105	104	103	99	96	105	103	103	102	102	99	102
106	104	102	99	96	104	103	103	102	101	99	102
Soft	Soft	Soft	Soft	Soft	Hard	Hard	Hard	Hard	Hard	Hard	Hard
11.4	11.6	11.4	11.4	11.8	10.7	11.3	11.4	10.9	11.4	12.0	11.3
12.1	12.1	12.1	12.0	12.5	11.2	12.0	12.0	11.5	11.9	12.5	11.9
218	221	288	223	250	265	219	204	151	276	321	259
76.9	75.7	77.9	75.6	76.4	78.3	76.3	76.0	76.3	76.8	80.7	76.3
-	-	[72]	[65]	-	-	-	-	-	[124]	-	
-	-	[0.3]	[0.3]	-	-	-	-	-	[0.5]	-	
83	86	80	83	77	82	84	79	79	88	81	81
7	7	7	6	7	6	7	7	7	7	7	8
7	8	8	6	8	7	7	7	7	8	8	8
91	87	93	83	85	93	86	87	85	87	82	79
0	+3	+1	0	+3	+1	0	+1	+1	0	+2	-1
[6]	[5]	[7]	[5]	5	[5]	[5]	[4]	[5]	7	6	[6]
7	6	6	7	6	6	6	4	7	7	8	6
8	9	8	9	9	7	7	8	7	8	9	9
6	8	7	7	8	4	6	6	7	6	5	5
-	-	-	[6]	[7]	-	[6]	[6]	[6]	[6]	[6]	
5.0	6.8	5.1	5.4	6.0	6.6	6.3	4.8	4.9	6.8	6.1	5.5
[4]	-	[5]	4	7@	0	4	4	5	4	5	
6	6	6	6	6	6	6	6	6	6	6	6
R	R	R	R	-	R	R	R	R	-	-	
LimEur	RAGT	LimEur	LimEur	Lim	SyP	SyP	R2n	KWS	SyP	KWS	KWS
Lim	RAGT	Lim	Lim	Lim	Syn	Syn	RAGT	KWS	Syn	Sen	KWS
105	103	103	99	96	105	103	103	102	102	100	100
104	[103]	101	99	95	[103]	104	103	103	100	98	100
-	-	103	[96]	96	-	103	[100]	-	100	99	100
[104]	[107]	[102]	97	[97]	[110]	104	103	104	[100]	100	100
105	[102]	101	98	95	[108]	102	103	102	100	98	101
105	104	103	98	96	104	103	102	101	102	100	103
7	8	4	18	2	6	4	5	6	5	2	2
11	4	2	20	3	7	4	7	9	3	2	2
[End Jan]	[End Jan]	[End Feb]	End Jan	End Jan	Mid Feb	Mid Feb	End Jan	End Jan	End Jan	End Jan	End Jan
[-5]	[+10]	[-6]	-3	+2	[-2]	+8	+6	0	+2	-2	
[0]	[+1]	[-3]	-5	+4	[0]	+3	+3	+3	0	-2	
[-4]	[0]	[-1]	0	+3	[+2]	+4	-2	0	-3	-2	
19	20	19	17	13	20	18	18	17	16	15	

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 7 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.



Skyfall (parentage C4148 x Hurricane) is a high yielding Group 1 bread-making variety, with short but stiff straw and has a solid disease profile and the only Group 1 with resistance to OWBM. 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.



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 is resistant to 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.



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 95.1 and quality grain characteristics. A strong disease resistance package, with a rating of 8.1 for septoria tritici and 9 for yellow rust. It is one of the earlier varieties to mature. It has a wide drilling window.



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



LG Detroit (parentage (Kingdom x KWS Santiago) x Crusoe). New to the 2019/20 AHDB Recommended List, LG Detroit is a high yielding, group 2 wheat, that meets specification for UKP bread wheat for overseas markets. The variety has a good disease resistance package, with a strong rating of 6 for Septoria Tritici and 7 for Fusarium and it is the only Group 2 winter wheat variety with resistance to OWBM. LG Detroit has stiff straw and excellent grain quality.

The complete package with
Septoria protection built in!

KWS EXTASE

- 8.1 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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SEEDING
THE FUTURE
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WHEAT

DISTINCTLY DIFFERENT

Group 2 Milling Wheat



LG DETROIT

- WOBM Resistance • Good Fusarium Resistance
- High Protein Content

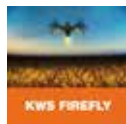
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lgseeds.co.uk/lg-detroit

AHDB Recommended List 2020/21

Tel: 01472 371471
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Limagrains

GROUP 3



KWS Firefly (parentage Cougar x KWS Rowan) was a new variety on AHDB Recommended List 2019/20 and is at the top of the Group 3's with a UK yield of 102% of controls. It has good all-round resistance, especially to *Septoria tritici* (which at a score of 7.0 is the best of the Group 3 varieties), yellow rust and is OWBM resistant.



Elicit (parentage Cassius x Viscount) is a high yielding Group 3 variety with a wide range of end uses including export. It has relatively stiff straw and a comprehensive disease profile including excellent resistance to yellow rust, good resistance to *septoria tritici* and resistance to OWBM.



Illuminate your wheat with a touch of magic



KWS FIREFLY

- The UK's highest yielding Group 3
- Great disease package, including 7.0 for *Septoria tritici* and OWBM resistance
- The stiffest variety available on the Recommended List



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SEEDING
THE FUTURE
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GROUP 4 – SOFT



LG Skyscraper (parentage (Cassius x NAWW2g) 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 attributes. 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.



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. It has good resistance to both yellow and brown rust as well as septoria tritici with a rating of 6.8, is OWBM resistant and this all contributes to a good untreated yield of 86%.



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 is a good second wheat, also performing well on heavier land.



LG Motown (parentage (Bantam x Huntress) x Denman) is a moderate yielding soft milling feed variety with distilling options. It has moderate straw strength and is one of the earlier varieties on the list to ripen. On the disease front it has excellent resistance to mildew and yellow rust, good resistance to septoria tritici and resistance to OWBM.



Revelation (parentage (Alchemy x Claire) x Shepherd) is a soft milling feed variety. It has relatively stiff straw but is late to ripen. It has a good disease profile with excellent resistance to both yellow and brown rust as well as eyespot and Fusarium. Revelation seems to perform relatively better as a first wheat and is suitable for very early sowing.



TOWERING YIELDS



WHEAT

LG SKYSCRAPER

Highest Yielding Recommended Winter Wheat

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AHDB Recommended List 2020/21

Tel: 01472 371471

lgseeds.co.uk enquiries@limagrains.co.uk

RGT SAKI

NOTHING MESSES WITH IT.



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



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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lgseeds.co.uk/lg-spotlight

AHDB Recommended List 2020/21

Tel: 01472 371471
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Limagrain 

WHEAT

GROUP 4 – HARD



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 yield.



RGT Gravity (parentage Scout/Oakley x KWS Santiago) is a relatively new variety. It is a hard milling, very high yielding feed variety. It is susceptible to mildew but has good resistance to yellow rust, combined with resistance to OWBM. It has performed well as a second wheat, when late sown and on all soils. A high input, high output type feed variety.



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, yellow rust, 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.



KWS Parkin (parentage Reflection x Costello) Despite not making the recommended list, KWS Parkin 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 good yield potential, 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).



SY Insector (parentage (Hereford x Oakley) x Hereford) SY Insector is a new variety added to the AHDB recommended List. It is a very high yielding, hard milling feed variety with relatively long straw of moderate strength. It has a mixed disease spectrum and whilst having moderate resistance to septoria tritici it is susceptible to brown rust. It is resistant to OWMB and has a good specific weight. It is suitable for later drilling and performs well on lighter soils.



KWS Kinetic (parentage KWS Silverstone x Reflection) KWS Kinetic is a new variety added to the AHDB Recommended List. It is a very high yielding hard feed variety with short, relatively stiff straw. It has a moderate level of disease resistance, with 6 for mildew, yellow rust, brown rust, fusarium and benefits from resistance to OWBM. Last year, this variety broke down to yellow rust in some regions of the UK. It has a good specific weight and suits later drilling.



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 also an early maturing variety, one of the earliest to ripen. Graham performs better as a first wheat and is suitable for early drilling.



Costello (parentage W151 x Timaru) is a high yielding, hard milling feed variety. Costello has outstanding grain quality, excellent specific weight and Hagberg falling number as well as its solid disease profile. It has a short, very stiff straw and is later to mature, useful for spreading workload at harvest.



RGT Wolverine is an exciting new wheat variety aimed at 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 season long protection from BYDV. It has been put forward for RL Candidate selection this autumn. Farmers will be able to try the variety in autumn 2020 following RGT's decision to fast-track seed production and release a small quantity of C2 seed. It looks to have a good disease profile, excellent straw strength and solid grain quality.

adaptable

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



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

Flexible drilling window • Excellent disease resistance • High yields



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®

WHEAT



THE FORCE OF GRAVITY IS NOW IN YOUR HANDS.



Grow to expect the best

RGT GRAVITY

G4 WINTER WHEAT

CHARACTERISTICS:



Suits all soil types



OWBM resistant



RGT Gravity
Recommended List 2020/21

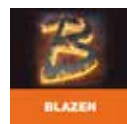
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WINTER OILSEED RAPE



VARIETY CHARACTERISTIC	CLEARFIELD DK Imprint CL	CLEARFIELD DK Imperial CL	CLEARFIELD Phoenix CL	HYBRID DK Exstar	HYBRID DK Exalte	HYBRID DK Platinum (clubroot resistant)
Available on establishment scheme	No	No	No	Yes	No	No
Breeder	DEKALB	DEKALB	DSV	DEKALB	DEKALB	DEKALB
2020/21 recommended list approved	No	No	No	No	No	No
Gross output %	94.4	100	106	105	102	93.6
Oil Content (%)	No data	45.7	43.6	45.3	45.5	45
Pod Shatter Resistance	Yes	Yes	Yes	Yes	Yes	Yes
Double Phoma Resistance	Yes	Yes	No	Yes	Yes	Yes
AGRONOMY						
Lodging Resistance (1-9)	9	8	8	9	8	8
Height (cm)/(1-9)	164	6	147	162	6	6
Stem Stiffness (1-9)	7	6	7.5	8	7	7
Earliness of flowering (1-9)	4	5	5	6	7	6
Earliness of maturity (1-9)	6	5	7	6	5	6
DISEASE RESISTANCE						
Light Leaf Spot (1-9)	6	5	6	8	7	5
Stem Canker (1-9)	8	8	No data	8	8	5

CONVENTIONAL



Blazen is one of the highest yielding conventional varieties on the recommended list, 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 2020. 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.



Elevation was added to the Recommended list in 2018. Elevation is a high yielding conventional variety characterised by big seeds, providing germinative energy and a large pack size, great for growers looking for a variety which is fast out of the ground with reliable performance. It has an excellent disease package and with an 8 for both stem stiffness and resistance to lodging, aids harvesting.



Barbados is a moderate yielding conventional variety with medium tall plants and good lodging resistance at flowering and stiff stemmed at maturity. Barbados is medium late flowering and late to mature with excellent resistance to light leaf spot and stem canker.



Anastasia Despite being on the recommended list since 2013, Anastasia remains very popular on farm due to its early vigour, good standing ability due to its short height and high yield output. It has moderate resistance to light leaf spot and stem canker and medium maturity.

High yielding conventional variety



BLAZEN

- Marketed under the Oilseed Establishment Partnership (OEP)
- Good resistance to lodging with stiff straw
- Relatively late flowering with medium maturity



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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 is the natural successor for growers of DK Extrovert, offering 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.



DK Exalte benefits from an excellent performance with medium tall plants, good lodging resistance and moderately stiff stemmed at maturity. DK Exalte is early to flower and medium late to mature with good resistance to light leaf spot, stem canker and benefits from the pod shatter resistant gene. It can be drilled up to mid September and has good autumn vigour and early spring regrowth.



Windozz is short, giving good lodging resistance at flowering and stem stiffness at maturity. Very early to flower, with fast spring regrowth maturity. Moderately susceptible to both light leaf spot and stem canker.



DK Platinum has the clubroot resistance gene to help growers continue to grow oilseed rape successfully that have clubroot issues. It has moderate resistance to both Light Leaf Spot and Stem Canker and scores a 7 for Stem Stiffness. It offers good yields, oil content and is medium for maturity.

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 topped the 2019 NIAB candidate RL trials and is the next step forward in the Clearfield technology. It has a rapid autumn growth habit to help with later drilling, tough conditions and CSFB & slug pressures. It has excellent phoma, stem canker and lodging resistance and scores a 6 for Light Leaf Spot. It is reasonably early to mature and is protected with the pod shatter resistance gene.



DK Imperial CL has rapid Autumn growth habit, so is suitable for early drilling up to early September. With a score of 8 for lodging resistance and stem canker, it is a good standing variety and easy harvest.

PHOENIX CL

Phoenix CL is a DSV Clearfield bred variety with excellent lodging resistance and a good disease package scoring a 6 for both light leaf spot and stem canker. It offers rapid autumn development and good spring vigour with early maturity. It also benefits from the pod shatter resistance gene and can be sown up to late September.

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

WINTER OATS



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

Dalguise
WINTER OAT

Dalguise is an early maturing variety with a high specific weight and good 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.



Mascani is a popular variety, its moderate yields are compensated for by its combination of high kernel content and specific weight. Mascani has a rating of 6 for both mildew and crown rust, which is the best on the AHDB recommended list.



RGT Lineout offers a high yield, moderately stiff straw and is the earliest maturing winter oat on the ADHB Recommended List. It is susceptible to mildew and moderately susceptible to crown rust.

WINTER BEANS



Tundra is the 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 moderately high protein content.



Wizard is a high yielding bean with a short straw and moderately good standing power. With a pale hilum, the best samples achieve export premium for human consumption. Wizard has a high protein content.

CHANGE YOUR PERSPECTIVE FOCUS ON ROOT HEALTH & ENHANCE ESTABLISHMENT

VIBRANCE® Duo performs exceptionally in these situations:

Delayed
drilling

Light
land

Second
wheats

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Website: www.syngenta.co.uk

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SEED 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, enabling rapid crop establishment with the added reassurance of improved rooting.

Vibrance Duo has clear benefits for improving root growth, which combined with its excellent disease control, lets the crop establish closer to 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 snut and rhizoctonia
- Emergence not delayed
- SDHI sprays can still be applied – sedaxane forms a protective zone around the seed, root and stem base
- Low dust-off
- Compatible to be co-applied with Latitude

For further information, please visit the Syngenta website:

www.syngenta.co.uk/vibrance-duo





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

Active substances: Prothiconazole 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 the broadest spectrum of seed-borne diseases, helps ensure excellent establishment and improves crop performance and quality.

- 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.



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

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.



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.

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)

Please do not hesitate in contacting James Mortimer Ltd 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.



		Barley					Wheat					
		Kick Off	Vibrance Duo	Manganese	Latitude	Raxil Star	Redigo Pro	Kick Off	Vibrance Duo	Manganese	Latitude	Redigo Pro
Key Diseases	Seedling Blights					✓	✓					✓
	Loose Smut		✓			✓	✓		✓			✓
	Covered Smut					✓	✓					
	Bunt (seed and soil)		✓						✓			✓
	Septoria (seedling)											
	Leaf Stripe		✓			✓	✓		✓			
	Net Blotch (seedling)					✓						
	Ergot											☑
	Blue Moulds						✓					☑
	Take-all		☑		✓				☑		✓	
	Septoria tritici											
	Brown rust											
	Yellow rust											
Key Pests	Wireworm											
	BYDV (aphids)											
	Wheat bulb fly											
	Slug hollowing											
	Gout fly											
	Frit fly											
Seeding Nutrition		✓	✓	✓					✓	✓		

Key: ✓ = control / suppression ☑ = partial control / suppression

OTHER MIXTURES

We sell a full 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.

HIGH LEVEL DELIVERY TIMETABLE										
	2020	2021	2022	2023	2024	2025	2026	2027	2028	
ELM		ELM Scheme Design								
		ELM Tests and Trials								
		ELM National Pilot								
						ELM Scheme				
TRANSITION		Direct Payments phased out 2021-2027								
		Countryside Stewardship Scheme (no new agreements post 2024)								
<div><div>Direct Payment reduction begins</div><div>ELM full roll out</div><div>Direct Payments removed</div></div>										

ENVIRONMENTAL MIXES



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



Wild Bird Mixes: Mixes specifically designed to provide various food sources for seed-eating birds throughout the year.



Pollen and Nectar Mixes: Designed to benefit butterflies and bees.



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.

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.

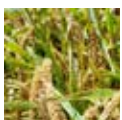


Linseed: Produces deep roots to improve soil structure and organic matter. Attracts pollinators and beneficials. Often used in gamecover for its excellent seed shedding. Its open canopy is ideal for partridges.

GAME COVER SPECIES



All Seasons Maize: Blend of 3 maize varieties to provide cover throughout the season. Winter hardy and good standing power. Drill when soil temperatures are above 10°C into non-compacted seedbeds.



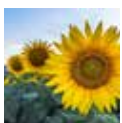
Millet: provides an excellent feed source to keep game interested in cover. Often used in blocks as flushing points. White and Red millet are often used as a blend to spread shed of seed due to difference in maturity dates. Millet is a good partner to both maize and sorghum in covers.



Sorghum: Provides warmth to covers to help hold birds. Very effective when sown adjacent to maize strips – excellent flushing points. Can make excellent controlled driving cover. Soil temperatures need to be above 14°C before sowing.



Quinoa: Provides warm cover throughout the season. Large seed shed, high in protein – particularly later in the season. Often sown with Kale to give a good 2-year cover.



Sunflower: Used as part of a mix or on its own to provide a plentiful seed source in autumn. Good standing power and attracts beneficials when flowering. Sow when soil temperatures have reached at least 10°C.



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).



Kale: Very winter hardy and will provide cover for 2 years. Gives warmth to covers in exposed sites. Excellent feed source for livestock. Several varieties available.



Phacelia: Fast growing and excellent provider of pollen and nectar for beneficials. Used as part of an overall game cover mix. Good catch/cover crop due to its weed suppression and ability to lift and hold nitrogen in the soil. Phacelia will readily re-seed itself.



Chicory: is a perennial crop that provides excellent cover from year 2 onwards. Best used as part of a longer term mix. Its deep roots help to improve soil structure and is very drought tolerant. Don't sow on wet ground.

OTHER FEED AND GRASS MIXTURES:



Fodder Beet: Fantastic feed source for livestock throughout autumn and winter. Winter hardy. Several varieties available.



Swede: Extremely palatable, high energy winter feed source. Suitable for a wide range of soils. Several varieties available.



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



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

Please enquire for details of all mixes.

FERTILISERS

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

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



Winter Wheat 2020/21 - Breeder Recommendations

VARIETY	DRILLING WINDOW	SECOND WHEAT PERFORMANCE
KWS Zyatt	20th Sept - End Jan	Excellent
Skyfall	Mid Oct - End Jan (latest safe sowing date 7th March)	Good
Crusoe	Mid Sept - End Jan	1st wheat preferred
KWS Extase	25th Sept - End Jan	Good
KWS Siskin	26th Sept - End Jan	Good
LG Detroit	Mid Sept - End Jan	1st wheat preferred
KWS Firefly	15th Sept - End Feb	Good
Elicit	Mid Sept - Mid 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
LG Motown	Mid Sept - End Jan	1st wheat preferred
LG Sundance	Mid Sept - End Jan	Good
Revelation	1st Sept - End Jan	Good
SY Insitor	14th Sept - End Jan	Good
KWS Kinetic	20th Sept - End Jan	Limited Data
Gleam	1st Sept - Mid Feb	Excellent
RGT Gravity	Mid Oct - End Jan	Good
KWS Kerrin	25th Sept - End Jan	Excellent
Graham	1st Sept - End Jan	1st wheat preferred
Shabras	14th Sept - End Jan	Excellent
Costello	12th Sept - End Jan	1st wheat preferred
KWS Parkin (Limited data)	1st Sept - End Jan	Good



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