



SEED AND DRESSINGS 2019





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ABOUT US

James Mortimer Limited are independent grain, seed and fertiliser merchants in Driffield, East Yorkshire who produce the highest quality seed at their new production facility. The state of the art plant 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.

AUTUMN 2019/20

We are delighted to give you some thoughts for another Autumn seed campaign. This year we celebrate our 150th anniversary, a milestone which we are extremely proud of. Since moving to our new site in December 2014 we have seen our sales grow in line with our expectations.

We are selling seed throughout Yorkshire on a retail basis, our wholesale business covers a much wider area, from Northumberland to Essex.

Within the company there is a great deal of experience in the seed trade, this covers every aspect from sales, crop inspection, processing and certification. Phil Naylor and Chris Johnson deserve a special mention in the seed plant. We built the plant with a no expense spared philosophy;

future proofing was a very important consideration. Both Phil and Chris strive for the same results on every lot of certified or farm saved seed, they simply want to produce the best sample possible every time.

Although we use a full range of seed treatments our Bayer Evolution treater is covered at the highest level by the manufacturer. Within the cover we have been selected for various enhancements to the treater, all designed to achieve the best possible results.

The level of service we give has helped us grow our sales, using our own haulage for seed intake and, wherever possible deliveries keeps us in control.

Grahame Clark, our transport manager works closely with Phil Naylor, ensuring the plant keeps running. Phil is in charge of bagged seed deliveries, using two of our own vehicles makes for a very efficient service.

Over the past four years we have invested in a bespoke computer programme for seed. Many hours of work have been spent developing a system to suit our needs. A special mention to Helen Overend for her work and patience, both in the development and staff training!

We also welcome Georgina Beevers to our team. Many of you will know Georgina from her time at Bayer and latterly Agrii. Georgina has mainly been involved in trials work, her knowledge will complement our existing team.

There is no doubt the seed trade faces many challenges in the years ahead. The loss of the Galmano range and Jockey were a significant blow

to the industry. Life without Deter is a massive blow. We must look to use combinations of existing material to give crops the best possible start.

At Mortimers we work with all the leading seed treatment manufacturers, and will strive to offer you the best possible advice.

Thank you for your continued support, we look forward to continuing to build on our recent success.

Brewing fine quality ale takes real Craft

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



syngenta

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BARLEY

James Mortimer Ltd – Winter Barley Recommended List 2019/20

Market options, yield and grain quality

AHDB RECOMMENDED																																
End-use group Scope of recommendation	Electrum		Craft		KWS Ginet		LG Mountain		LG Flynn		KWS Orwell		Valerie		Surge		KWS Infinity		KWS Creswell		KWS Cassia		Belmont \$		SY Kingsham \$		Barzooka \$		Sunningdale \$		Belfy \$	
	Two-row malting				Two-row feed																Six-row feed											
	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK
Fungicide-treated grain yield (% treated control)																																
United Kingdom (9.9 t/ha)	97	97	104	104	104	103	102	101	101	101	98	109	108	107	107	107	107	107	107	107	107	107	109	108	107	107	107	107	107	107	107	107
North region (9.8 t/ha)	95	97	100	105	[101]	102	[101]	98	102	103	98	108	106	106	109	105	102	103	106	109	105	108	106	106	107	107	107	107	107	107	107	107
Untreated grain yield (% treated control)																																
United Kingdom (9.9 t/ha)	80	77	84	83	82	81	87	86	79	74	81	78	89	89	88	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Main market options																																
MBC malting approval for brewing use	P	F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grain quality																																
Specific weight (kg/hl)	69.5	69.3	68.1	68.9	69.8	67.8	70.2	69.3	68.0	67.9	71.0	68.5	69.9	68.8	67.8	68.2	68.2	68.2	68.2	68.2	68.2	68.5	69.9	68.8	67.8	67.8	68.2	68.2	68.2	68.2	68.2	68.2
Screenings (% through 2.5 mm)	2.4	2.1	2.5	2.8	1.8	2.1	1.0	2.1	2.7	2.4	1.8	2.9	1.9	2.7	2.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
Screenings (% through 2.5 mm)	6.8	6.8	7.7	9.2	5.5	6.0	2.5	6.4	8.2	8.6	5.7	10.3	6.9	9.6	10.3	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
Nitrogen content (%)	1.66	1.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Year first listed	18	16	19	19	19	16	19	16	15	17	10	18	19	16	17	16	16	16	16	16	16	18	19	16	17	16	16	16	16	16	16	16
Agonomic features																																
Resistance to lodging (1-9)	7	8	7	7	7	8	8	7	7	7	8	7	8	7	7	8	7	8	7	7	7	7	7	8	7	7	7	7	7	7	7	7
Straw height without PGR (cm)	93	90	99	85	95	87	90	88	91	88	91	110	112	115	110	109	107	107	107	107	107	110	112	115	110	109	107	107	107	107	107	107
Straw height with PGR (cm)	90	88	95	87	91	85	87	85	88	87	89	107	103	109	105	102	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
Ripening (+/-KWS Orwell, -ve = earlier)	-1	0	+1	-1	+1	0	-1	0	0	0	+1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Winter hardiness #	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Disease resistance																																
Mildew (1-9)	6	6	6	5	4	3	6	6	4	4	4	6	6	4	5	5	5	5	5	5	5	5	6	6	4	5	5	5	5	5	5	5
Yellow rust (1-9)	[8]	[8]	-	-	-	[7]	-	[7]	[7]	[8]	6	[8]	-	[9]	[7]	[8]	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Brown rust (1-9)	6	6	6	7	7	7	9	7	6	6	7	4	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Rhynchosporium (1-9)	6	6	6	5	6	6	6	7	6	6	5	6	7	7	7	7	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
Net blotch (1-9)	5	6	5	5	6	5	6	7	6	4	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
BaYMV	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Breeder/UK contact																																
UK contact	Syn	Syn	KWS	Lim	Lim	KWS	Sen	Syn	KWS	KWS	KWS	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn	Syn
Annual treated yield (% control)																																
2014 (9.9 t/ha)	-	97	-	-	-	102	-	101	101	102	97	-	-	107	108	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
2015 (10.5 t/ha)	96	96	-	-	-	101	-	99	100	101	96	107	-	107	106	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
2016 (9.3 t/ha)	98	96	103	105	104	104	102	102	102	102	101	99	111	109	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
2017 (9.7 t/ha)	96	97	105	104	103	103	103	101	102	101	99	109	109	108	107	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
2018 (10.0 t/ha)	97	98	102	104	103	103	102	101	102	102	98	109	108	105	107	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Soil type (about 50% of trials are medium soils)																																
Light soils (10.0 t/ha)	96	97	102	105	102	102	102	100	102	102	97	107	106	106	107	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Heavy soils (10.0 t/ha)	98	95	[105]	[107]	[106]	102	[101]	102	100	99	98	109	[108]	109	105	109	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Agonomic characteristics																																
Lodging without PGR (%)	6	3	9	11	5	2	3	5	5	7	3	9	4	5	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Lodging with PGR (%)	3	1	3	4	2	1	1	3	2	3	2	7	1	2	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Malting quality																																
Hot water extract (l deg/kg)	305.7	307.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Status in RL system																																
Year first listed	18	16	19	19	19	16	19	16	15	17	10	18	19	16	17	16	16	16	16	16	16	18	19	16	17	16	16	16	16	16	16	16
RL status	P2	P1	P1	P1	P1	P1	P1	P1	P1	P1	P1	P2	P1	P1	P1	P1	P1	P1	P1	P1	P1	P2	P1	P1	P1	P1	P1	P1	P1	P1	P1	

FEED – 2 ROW CONVENTIONAL



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



LG Mountain (parentage Harlequin x KWS Glacier). A new two row feed barley added to the AHDB Recommended List. The second highest yielding variety for both treated and untreated yields. It is early maturing, short strawed and benefits from good all round disease resistance profile, including BaYMV resistance but moderately susceptible to both Rhynchosporium and net blotch.



LG Flynn (Captain x KWS Tower) is a new high yielding two row winter barley, offering growers agronomic attributes of good straw strength and disease resistance, combined with a very high specific weight. LG Flynn is a taller strawed variety, but has very good lodging resistance. It has a strong disease resistance package with a 7 against Rhynchosporium and 6 for Net Blotch with resistance for Barley Yellow Mosaic Virus (BaYMV).



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 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 and offers a high specific weight and low screenings.



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.



KWS Infinity (parentage Cassia x Retriever) is a high yielding big, bold two-row feed variety with short, stiff straw and excellent wet weather disease resistance. KWS Infinity has resistance to BaYMV and is moderately resistant to Rhynchosporium.



KWS Creswell (parentage KWS Tower x KWS Cassia) is a relatively new variety added to the AHDB Recommended List and is ideally suited to the Northern farmer with its early maturing and ease of harvest inherited from its KWS Cassia parentage. It has good Rhynchosporium resistance, but net blotch needs watching. KWS Creswell will benefit from a robust fungicide programme.



KWS Cassia (parentage (Eden x Carat) x Saffron) is a two row feed variety with moderately high yields. KWS Cassia offers a good 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. KWS Cassia is a consistent performer and very popular on the Yorkshire Wolds.



The UK's most popular winter barley!

KWS ORWELL

- Highly consistent across regions
- Stiffest 2-row variety
- Good combination of wet weather disease resistance



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HYBRID



Belmont is the highest yielding six row feed hybrid barley on the AHDB Recommended List, a new addition, 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 has out-yielded Bazooka and produced exceptionally high specific weight while being earlier-maturing. It has also delivered consistent percentage yields, similar lodging resistance to Bazooka but longer straw. A good all round package for those seeking high yields at relatively low risk.



Bazooka (parentage F1 hybrid) is a six row hybrid feed variety, high yielding with tall but stiff straw. It has good disease resistance with excellent resistance to Rhynchosporium, resistance to BaYMV and moderate resistance to net blotch. Bazooka produces grain with a good specific weight. Bazooka is selected by some growers to suppress Black-Grass.



Hyvido Sunningdale is a hybrid barley, offering good overall qualities, with a treated yield of 107, a good disease profile with a rating of 6 for mildew and yellow rust, with 7 for brown rust, Rhynchosporium and net blotch. It offers black grass suppression, has good grain quality with a stiff, shorter straw than its rival Bazooka.



Belfry is a six row hybrid feed variety offering very high yields and tall but stiff straw. It has a solid disease profile across the range with no major weaknesses. Belfry has a good specific weight as well as resistance to BaYMV.

WHEAT

James Mortimer Ltd – Winter Wheat Recommended List 2019/20

End-use group	KWS Zyatt			KWS Skislin			KWS Exase		KWS Lili		LG Detroit		KWS Firefly		KWS Barrel		Elicit	
Scope of recommendation	nabim Group 1			nabim Group 2			nabim Group 3		nabim Group 4		nabim Group 5		nabim Group 6		nabim Group 7		nabim Group 8	
	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK
	C	C	C	C	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW	NEW
Untreated grain yield (% treated control)																		
United Kingdom (11.2 t/ha)	101	99	97	102	101	100	100	102	101	101	101	101	102	101	101	101	101	101
Main market options (The specific attributes of varieties are different so, whenever possible, varieties should not be mixed in store)																		
Grain quality																		
Endosperm texture	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Soft	Soft	Soft	Soft	Soft	Soft
Protein content (%)	12.1	12.1	12.7	11.7	11.7	11.4	12.2	11.7	11.2	11.5	11.7	11.2	11.5	11.7	11.2	11.5	11.7	11.2
Protein content (%) - Milling spec	13.2	13.3	13.6	12.8	12.6	12.4	13.2	12.8	12.2	12.5	12.8	12.2	12.5	12.8	12.2	12.5	12.8	12.2
Hagberg Falling Number	283	293	281	300	307	303	280	248	227	222	248	227	222	248	227	222	248	227
Specific weight (kg/hl)	78.3	78.6	78.3	77.5	78.6	77.5	77.8	75.9	77.3	77.3	75.9	77.3	77.3	75.9	77.3	77.3	75.9	77.3
Untreated grain yield (% treated control)																		
United Kingdom (11.2 t/ha)	86	81	74	85	95	72	77	86	72	82	86	72	82	86	72	82	86	72
Agonomic features																		
Resistance to lodging without PGR (1-9)	7	8	7	6	7	7	8	8	7	7	8	7	7	8	7	7	8	7
Resistance to lodging with PGR (1-9)	8	8	8	7	8	8	7	8	8	8	8	8	8	8	8	8	8	8
Height without PGR (cm)	83	82	81	83	89	81	84	81	82	84	81	82	84	81	82	84	81	82
Ripening (days +/- JB Diego, -ve = earlier)	0	0	+1	+1	0	+2	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1	+1
Resistance to sprouting (1-9)	[5]	5	6	[5]	-	7	-	-	[6]	[5]	-	[6]	[5]	-	[6]	[5]	-	[6]
Disease resistance																		
Mildew (1-9)	7	5	6	8	6	8	5	5	6	6	5	6	6	5	6	6	5	6
Yellow rust (1-9)	8	5	9	9	9	7	9	9	9	9	9	9	9	9	9	9	9	9
Brown rust (1-9)	6	8	3	5	7	4	5	8	5	7	8	5	7	8	5	7	8	5
Septoria nodorum (1-9)	[6]	[6]	6	[7]	-	[6]	-	-	[5]	[6]	-	[5]	[6]	-	[5]	[6]	-	[5]
Septoria tritici (1-9)	6.4	5.9	6.5	6.7	8.1	5.9	5.7	7.0	4.5	6.0	6.7	8.1	5.9	5.7	7.0	4.5	6.0	6.7
Eyespot (1-9)	7@	6@	5	4	[4]	5	[5]	[4]	4	4	4	4	4	4	4	4	4	4
Fusarium ear blight (1-9)	6	7	6	5	6	6	7	5	6	7	5	6	7	5	6	7	5	6
Orange wheat blossom midge	-	R	-	-	-	-	R	R	R	R	R	R	R	R	R	R	R	R
Breeder/UK contact																		
UK contact	KWS	RAGT	Lim	KWS	KWS	KWS	Lim	KWS	KWS	Els	KWS	KWS	Els	KWS	KWS	Els	KWS	KWS
Rotational position																		
First cereal (11.6 t/ha)	100	99	97	102	101	101	100	102	102	101	102	102	101	102	102	101	102	102
Second and more (9.9 t/ha)	101	99	95	102	101	99	100	101	101	101	101	101	101	101	101	101	101	101
Sowing date (most trials were sown in October)																		
Early sown (before 15 Sept) (11.2 t/ha)	-	98	96	[[104]]	-	[[103]]	-	-	98	[102]	-	98	[102]	-	98	[102]	-	98
Late sown (mid-Nov to end-Jan) (10.2 t/ha)	98	97	94	101	[[102]]	101	[[98]]	[[101]]	102	[98]	101	[[101]]	102	[[101]]	102	[98]	101	[[101]]
Soil type (about 50% of trials are on medium soils)																		
Light soils (11.1 t/ha)	99	98	95	100	[103]	102	[98]	[102]	103	101	100	103	101	100	103	101	100	103
Heavy soils (11.5 t/ha)	101	99	97	102	101	101	101	103	101	100	103	101	100	103	101	100	103	101
Agonomic features																		
Lodging % without PGR	3	1	2	12	3	2	2	1	2	5	1	2	5	1	2	5	1	2
Lodging % with PGR	1	1	2	6	1	2	4	1	2	3	1	2	3	1	2	3	1	2
Latest safe sowing date #	Mid Feb	End Feb	End Jan	End Jan	[[End Jan]]	Mid Feb	[[End Jan]]	[[Mid Feb]]	End Jan	[[End Jan]]	[[Mid Feb]]	End Jan	[[End Jan]]	[[Mid Feb]]	End Jan	[[End Jan]]	[[Mid Feb]]	End Jan
Speed of development to growth stage 31 (days +/- average)																		
Early Sept sown	-2	-2	0	-9	[-7]	-1	[+3]	[-5]	+3	[-2]	-2	-2	0	-9	[-7]	-1	[+3]	[-5]
Early Oct sown	-2	-3	+1	-5	[-7]	0	[+5]	[-2]	+3	[+6]	-2	-3	+1	-5	[-7]	0	[+5]	[-2]
Early Nov sown	[-2]	-1	-1	-3	[-1]	+3	[+1]	[0]	+3	[+1]	-2	-3	+1	-3	[-1]	+3	[+1]	[0]
Status in RL system																		
Year first listed	17	14	12	16	19	15	19	19	16	18	17	14	12	16	19	15	19	17

LG Skyscraper	LG Spotlight	KWS Jackal	LG Sundance	LG Motown	Revelation	RGT Gravity	Gleam	KWS Kerrin	Shabraz	Graham	Costello	Grafton	KWS Gator	LG Jigsaw
UK	UK	N	UK	UK	UK	UK	UK	E&W	UK	UK	UK	UK	UK	UK
NEW	NEW													
106	104	102	101	100	97	104	104	104	103	102	100	99	103	102
Soft	Soft	Soft	Soft	Soft	Soft	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard	Hard
11.2	11.1	10.9	11.2	11.3	11.5	11.3	11.1	10.7	11.2	11.3	11.8	11.6	10.9	11.1
12.0	12.1	12.2	12.3	12.2	12.6	12.2	12.0	11.6	12.1	12.1	12.7	12.6	12.1	12.1
221	290	177	187	226	257	211	223	150	219	283	330	324	201	210
77.2	78.3	76.1	74.4	76.0	76.5	76.4	76.6	76.5	76.4	76.9	80.9	79.1	75.4	76.4
84	82	77	86	84	80	80	85	81	82	88	82	74	83	82
7	7	7	6	6	7	7	7	7	6	7	7	8	8	7
7	8	7	7	6	8	7	7	7	7	8	8	8	8	8
90	91	85	86	83	85	86	85	84	85	86	82	75	84	88
0	+1	+1	+2	0	+3	+1	0	+1	0	0	+2	-1	1	2
-	-	[5]	[4]	[6]	5	[4]	[5]	[5]	[4]	[7]	7	5	6	
7	6	7	7	7	6	4	6	7	6	7	8	[7]	6	4
8	8	9	9	9	9	8	7	7	7	8	9	6	9	8
5	6	5	6	7	8	6	6	7	5	6	5	6	3	7
-	-	[5]	[7]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[6]	[5]	6	
5.2	5.2	4.9	7.9	5.7	6.3	5.0	6.4	5.0	6.2	6.9	6.1	5.4	5	5.5
[4]	[5]	4	3	4	8@	4	4	5	4	4	4	4	4	6
6	7	6	7	6	7	6	6	6	6	6	7	5	6	7
R	R	R	R	R	-	R	R	R	-	-	-	-	R	R
Lim	Lim	KWS	Lim	Lim	Lim	RAGT	Syn	KWS	Syn	Syn	Sen	KWS	KWS	Lim
106	103	102	101	100	98	104	104	104	103	103	101	99	103	
105	102	103	103	101	97	105	105	105	104	100	99	[97]	105	
-	[[103]]	[102]	[[97]]	[[97]]	97	[[101]]	[104]	-	-	103	99	97	104	100
[[103]]	[[100]]	[103]	[101]	99	[[98]]	[104]	[103]	105	[99]	[100]	99	-	103	100
[105]	[100]	103	101	101	98	104	103	104	103	101	100	[96]	105	100
106	104	102	101	100	97	104	104	103	102	103	101	[99]	101	104
6	3	4	8	14	2	6	3	5	9	5	3	1	1	
10	2	6	11	15	2	7	4	8	8	2	1	1	1	
[[End Jan]]	[[Mid Feb]]	[End Jan]	End Jan	End Jan	End Jan	[End Jan]	[End Jan]	End Jan	End Jan	End Jan	End Jan	End Jan		
[-5]	[-9]	[+5]	+9	-4	+3	[+3]	[+9]	-2	+4	+3	-1	+6	+1	
[+3]	[-5]	[+4]	+4	-5	+3	[+4]	[+4]	+2	+1	+1	0	+2	+3	
[-2]	[-1]	[+1]	[+4]	[-1]	+3	[-3]	[+4]	[-1]	[-1]	-4	-3	+0	+0	
19	19	18	17	17	13	18	18	17	17	16	15	09	12	

GROUP 1



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 (offers 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.



KWS Zyatt (parentage Hereford x Quartz) is a high yielding variety with a yield 1% above that of Skyfall, with full Group 1 milling approval. It has relatively stiff straw and a good disease profile giving a high untreated yield of 91%. KWS Zyatt has a relatively good resistance to yellow rust and good resistance to 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.



Crusoe (parentage Cordiale x Gulliver) has the highest protein content of the Recommended Group 1 wheats with good grain quality characteristics and excellent milling. 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 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 7).



KWS Extase (parentage Boisseau x Solheio) is a new variety added to the AHDB Recommended List for 2019/20, with impressive yields and quality grain characteristics. A strong disease resistance package, with a rating of 8.1 for septoria tritici and 9 for yellow rust. It has the best lodging scores for either untreated or treated straw of any variety on the Recommended List. It is one of the earlier varieties to mature.



KWS Lili (parentage KWS Horizon x Timaru) benefits from Group 2 breadmaking quality with very high yields and good grain quality. It has relatively short, stiff straw and a solid profile across all diseases including 6 for septoria tritici, 9 for mildew and 7 for yellow rust.



LG Detroit (parentage (Kingdom x KWS Santiago) x Crusoe). New to the 2019/20 AHDB Recommended List, LG Detroit is a very high yielding, hard 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.

Unrivalled *Septoria*
protection built in

KWS EXTASE

- 8.1 for *Septoria tritici* – a new era in disease resistance
- Superb grain quality, providing access to a range of markets
- Early maturing Group 2 variety



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GROUP 3



KWS Firefly (parentage Cougar x KWS Rowan) is 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.



KWS Barrel (parentage Bantam x Viscount) is the second highest yielding Group 3 with good physical grain quality for biscuit making and export. It has stiff straw and good resistance to yellow rust with the added benefit of resistance to OWBM.



Elicit (parentage Cassius x Viscount) is a very 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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LG SKYSCRAPER
WINTER WHEAT

TOWERING YIELDS



AHDB
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WHEAT

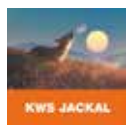
GROUP 4 – SOFT



LG Skyscraper (parentage **Cassius x NAWW29**) x **KWS Santiago**) is new to the AHDB List for 2019/20. It is a soft milling Group 4 wheat which is the highest yielding winter wheat on the recommended list for both hard and soft categories. It offers a great combination of agronomic merits and grain quality attributes. It is tall strawed with good resistance for both yellow rust and septoria tritici and is OWMB resistant. One of the earlier varieties to ripen.



LG Spotlight (parentage **Scribe x Horatio**) is 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.



KWS Jackal (parentage **KWS Santiago x KWS W177**) is a soft milling Group 4 wheat, rated as 'medium' for distilling. The variety has a very high yield potential, good resistance to yellow rust and mildew, combined with resistance to OWBM.



LG Sundance (parentage **Hereford x Viscount**) x **Cassius**) is a very high yielding, soft milling feed variety with distilling options. It has relatively stiff straw and a good disease profile, with excellent resistance to yellow rust and good resistance to septoria tritici. LG Sundance also has resistance to OWBM, although it may be susceptible to eyespot. With a medium rating for distilling, LG Sundance offers high yield and good marketability combined with low risk.



LG Motown (parentage **Bantam x Huntress**) x **Denman**) is a high 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, resistance to OWBM, although possible susceptibility to eyespot.



Revelation (parentage **Alchemy x Claire**) x **Shepherd**) is a high yielding, 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.

WHEAT

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WINTER WHEAT

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G4 (HARD) WINTER WHEAT

AT THE ROOT OF COMPLETE CONFIDENCE.
ACHIEVING TOP 3 VARIETY STATUS IN ITS FIRST COMMERCIAL YEAR.

CHARACTERISTICS:

UK's highest yielding hard feed wheat Delivers as a first and second wheat Consistent across all regions OWMB resistant



RGT Gravity.
Highest Yielding fully approved
hard feed wheat 2019.

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GROUP 4 – HARD



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 OWMB. It has performed well as a second wheat, when late sown and on all soils. A high input, high output type feed variety.



Gleam (parentage KWS Kielder x Hereford) is a very high yielding, hard milling variety which has performed well in both first and second rotations. This variety is relatively stiff strawed with high resistance to OWMB and has high untreated yields in trials. A useful variety for growers looking to maximise feed yield whilst looking to reduce risk.



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 OWMB. KWS Kerrin has performed well as a second wheat, as well as on light land and when late drilled.



Shabras (parentage Cassius x Hereford) is a very high yielding, hard milling feed variety. It has good resistance to both yellow rust and septoria tritici although it is susceptible to brown rust. Shabras has performed well as a second wheat and on lighter soils and does not appear suitable for late autumn drilling.



Graham (parentage Premio x Expert) is a very 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.



LG Jigsaw (parentage KWS Santiago x Revelation) is a hard feed variety offering high yields. It has a strong disease resistance profile, with OWM resistance and eyespot but is susceptible to Mildew. It has relatively stiff straw.



Costello (parentage W151 x Timaru) is a high yielding, hard milling feed variety. Costello has outstanding grain quality, excellent specific weight, as well as its solid disease profile with the exception of eyespot. It has a short, very stiff straw and is early to ripen.



KWS Gator (parentage Oakley x CPBT W89) is a hard milling Group 4 feed variety. It produces very high yields and is a true second wheat, where its aggressive, competitive nature comes into force, especially on light land. It has stiff straw, resistance to OWM and has a good resistance to yellow rust, but is susceptible to brown rust. Despite not being on the AHDB recommended list, it has a loyal following.




Grafton (parentage Cordiale x CPBT W97) is a hard milling Group 4 feed wheat which is ideal for early drilling and is very early to harvest, ideally suited to very fertile sites. It has very short, stiff straw a moderate disease profile, susceptible to brown rust although has the benefit of the Pch1 eyespot resistance gene. Despite not being on the AHDB Recommended List, it is still very popular.





WHEAT

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in RL trials



BLAZEN

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



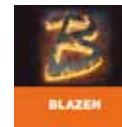
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WINTER OILSEED RAPE

CONVENTIONAL



Blazen Marketed under the Oilseed Establishment Partnership (OEP). Good resistance to lodging with a stiff straw. Relatively late flowering. It has a very good multigene resistance to stem canker. Blazen has performed well across the main OSR regions of England and excellent performance in KWS UK trials. The OEP offers a practical solution to growers with concerns around the establishment of oilseed rape crops. The OEP shares the risk of establishment between the grower, merchant and breeder. The initial seed cost is lower for the grower, allowing better cashflow and the opportunity for flexible seed rates. For further information on the scheme, please contact the office. For further information please contact the office or visit the website www.kws.com/gb/en/products/oilseed-rape/blazen



Barbados is a very high 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 moderately good resistance to light leaf spot and stem canker.



Campus is a conventional variety, with a high gross output and medium tall plants with good standing power, medium early flowering and medium late maturity. Moderate resistance to light leaf spot and stem canker.

HYBRID



DK Exalte benefits from an excellent performance with medium tall plants with good lodging resistance and moderately stiff stemmed at maturity. DK Exalte is early to flower and medium late to mature with moderately good resistance to light leaf spot and good resistance to stem canker and pod shatter.



DK Exclaim has a medium speed of autumn development giving a wide drilling window and is suited for early drilling. It has outstanding, durable resistance to phoma stem canker, a good level of protection from light leaf spot and some flexibility in fungicide application. Genetic resistance minimises yield loss and offers some flexibility in fungicide application. It establishes robust, well rooted plants that are best able to cope with challenging UK conditions.



DK Exstar combines high yields and oil content with medium - rapid autumn growth habit, suitable for drilling into early September. Double Phoma resistance giving strong resistance to Stem Canker. Very good resistance to Light Leaf Spot. High yield potential and oil content. Pod shatter resistance.



Windozz The plants are short, particularly so for a hybrid, having good lodging resistance at flowering and stem stiffness at maturity. Very early for flowering and medium late for maturity. Moderately susceptible to both light leaf spot and stem canker. Very early flowering coupled with hybrid vigour should provide the best recovery from pigeon grazing in spring.

We can supply most other 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. Vigorous establishment.



DK Imperial (later sowing) has medium-rapid Autumn growth habit, so is suitable for drilling into early September. It has genetic resistance that minimises yield loss and volunteer issues caused by shedding up to and during harvest. The combination of the RLM7 gene and polygenic resistance provides outstanding, durable resistance to phoma stem canker and some flexibility in fungicide application.

WINTER OATS



RGT Southwark is a relatively new variety added to the AHDB Recommended List. Offers very high yields but has straw of moderate strength. It is relatively early to ripen and has good resistance to crown rust but is very susceptible to mildew. RGT Southwark has a high specific weight.



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



Mascani is a popular husked variety, its moderate yields are compensated for by its combination of high kernel content and specific weight. Mascani is less susceptible to mildew than most varieties and has the best available winter oat resistance to crown rust, though a race exists to which it could be susceptible.

WINTER BEANS



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



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

SEED DRESSINGS



Vibrance Duo – Winter wheat, winter triticale, winter rye 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



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IMPROVED ROOT HEALTH
BROAD SPECTRUM DISEASE CONTROL
OF ESTABLISHMENT DISEASES
REALISE THE POTENTIAL OF YOUR SEED

**BOOST
YOUR
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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 February 2017, G007004.



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



Austral Plus –wheat, barley and oats

Austral Plus is a co-formulation of fludioxonil and tefluthrin for the control of a range of seed and soil borne diseases as well as wheat bulb fly and wireworm, in wheat, barley and oats. Austral plus has a single purpose treatment within its formulation.

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Manganese – winter cereals

Treating seed with Manganese solution is the most effective way to protect the cereal crop from early deficiency problems. Manganese seed treatment is immediately available to the germinating seed. It is compatible for simultaneous co-application with all commonly available seed treatments.



Kick-Off – for cereals, pulses, oilseed rape and maize

Kick-Off contains a high level of phosphite plus a good level of zinc both of which stimulate speedy root growth and development.

What's in Kick-Off: Phosphorous 180g/L as a phosphite/ phosphate mix. Manganese 80g/L; equivalent to a 2/3 rate of a standalone manganese dressing. Potassium 40g/L for enzyme manufacture which then stimulate cell division. Nitrogen 20g/L fundamental for protein synthesis and cell development. Zinc 16g/L important component of plant enzymes. Sulphate 10g/L complements the nitrogen. Amino Acids Assists in protein synthesis.

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.

Our Bayer Evolution seed treater is capable of applying a full range of seed treatments at extremely accurate application rates. If the products are not applied with high levels of accuracy you will lose the advantage of the treatments.

		Barley					Wheat						
Key ✓ = control / suppression (✓) = partial control / suppression		Kick-Off	Manganese	Austral Plus	Latitude	Raxil Star	Redigo Pro	Kick-Off	Vibrance Duo	Manganese	Austral Plus	Latitude	Redigo Pro
Key Diseases	Seedling Blights			✓		✓	✓				✓		✓
	Loose Smut			(✓)		✓	✓		✓				✓
	Covered Smut			✓		✓	✓						
	Bunt (seed & 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												
Seedling Nutrition		✓	✓						✓	✓			

OTHER MIXTURES

We also 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

FERTILISERS

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

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



For all your individual requirements, please contact the office:

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