



Seed Varieties Information 2023/24



Introduction

Over the past 12 months and over the next 12, we have seen and will see further advancements in wheat breeding specifically targeting BYDV resistance and other major diseases. This is huge news for the industry and follows the government's rhetoric of reducing chemical inputs, especially insecticides, within food production.

Another area of significant growth and government support is the 'small seeds' industry. We use small seeds as a term to describe mainly mixtures of grass, cover crop species, wildflowers and other non-combinable crops.

The UK Government is committed to 'public money for public good' and the options to take areas out of

arable production in favour of areas that can provide a wide range of economic benefits that are very attractive to growers, especially on areas of low productivity.

Despite being a merchant majoring on broad-acre cereal, oilseed and pulses seed, we also have a dedicated team to help you choose the right mixture for your environmental scheme, as this is a task that can often cause some confusion.

A big part of ADM Agriculture is vertical integration with our ADM partners' businesses, including the flour mills, Erith oilseed crush and pulse production at Long Sutton.

We are in a unique position to provide the end consumer of raw agricultural commodities the ability to trace their commodities' journey from a single seed lot from the breeder through to a delivery of a bulk load on intake. This process can often be over multiple years and harvests, which is of great importance to the consumer.

May I take this opportunity to wish you all a good harvest and to thank you for your custom again a year down the line.

Dave Cooper, head of seed

Meet the team



DAVE COOPER
Head of seed

Dave has recently become head of seed for ADM Agriculture, bringing with him 41 years of experience. Dave also looks after wholesale seed sales and leads production through our processing facility at Long Sutton.



BETH MOSES
Retail seed manager

Beth started working at ADM in 2015 as a laboratory assistant before joining the seed team in April 2020. Beth works predominantly on the retail side, and is the farm traders' first port of call for pricing enquiries.



PETER BUSFIELD
Contracts manager

Peter is responsible for placing our contracts with seed growers and maintaining our supply. He ensures we have the best varieties and growers producing high quality seed for our customers.



AMY GILBERT
Seed assistant

Amy joined the company in 2010 and has assisted in all areas of the retail desk during this time. Amy works in the administration of seed contracts and is the 'go to' problem solver.



ROSIE WRAY
Seed administrator and small seeds specialist

Rosie joined ADM in autumn 2021 as a seed administrative assistant. When Rosie isn't keeping the seed team organised she is inputting and overseeing sales contracts and dealing with admin-related queries. Rosie also drives sales of small seeds through our team of farm traders, including but not limited to countryside stewardship, grass seed and cover crops.

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Agronomic data taken from the 23/24 AHDB Recommended List (RL) for wheat, barley, rye, oilseed rape and oats. Pea and bean data comes from the PGRO Descriptive List 2023. Data for varieties not in the above lists are supplied by breeders.

From reading this publication, you can claim:
2 NRoSO points with reference **NO500448f** and 2 BASIS points with **CP/126102/2324/g**

Winter Wheat

Winter Wheat

KWS Zyatt	Breeder	KWS UK Ltd	Agronomics
	Parentage	KWS Quartz x Hereford	

ADM's view - KWS Zyatt remains the highest yielding Group 1 with good baking qualities which seem to be very consistent across seasons. Agronomically, KWS Zyatt is now very susceptible to yellow rust but remains moderately resistant to Septoria tritici. Second wheat performance remains strong and the variety has the Pch1 eyespot resistance. KWS Zyatt has a moderate speed of development so is best suited to the main drilling window.

Mildew	7	United Kingdom	99
Yellow rust	3	East region	98
		West region	99
Brown rust	7	North region	98
Septoria tritici	6.1	Untreated yield	75
		First cereal	98
Fusarium	6	Second plus	99
Resistance to lodging with PGR	8	Light soils	97
		Heavy soils	99
Maturity	-2 (-1) 0 1 2 3	Specific weight	78.4

Group 1




KWS Extase	Breeder	KWS UK Ltd	Agronomics
	Parentage	Boisseau x Solheio	

ADM's view - KWS Extase offers something very different in terms of growth habit, being incredibly vigorous in both the autumn and spring. As such, input timings need to be carefully monitored in February/ March, as growers can be caught out with how much faster this variety develops compared to others. Disease resistances are holding up well, with Septoria tritici and yellow rust scores remaining very high. Rotationally, KWS Extase is more suited to the first cereal position and should not be sown before October for best results. For those growers aiming for 13%+ proteins, remember that protein dilutes with yield so more N will be required than with Group 1's.

Mildew	7	United Kingdom	102
Yellow rust	8	East region	102
		West region	102
Brown rust	6	North region	100
Septoria tritici	7.8	Untreated yield	97
		First cereal	101
Fusarium	6	Second plus	102
Resistance to lodging with PGR	8	Light soils	102
		Heavy soils	101
Maturity	-2 (-1) 0 1 2 3	Specific weight	79.4

Group 2



Skyfall	Breeder	RAGT Seeds UK	Agronomics	OWBM resistance 
	Parentage	C4148 x Hurricane		

ADM's view - Skyfall remains the only winter-recommended Group 1 with OWBM resistance. Stiff straw, early maturity and Pch1 eyespot resistance make the variety a consistent choice and very well suited to marginal soils. Skyfall is best suited to end of September/ early October sowings onwards, with an extremely wide sowing window courtesy of its low vernalisation requirements. Skyfall can successfully be sown until early March, providing flexibility in adverse autumns. The variety is very susceptible to yellow rust, so a thorough preventative approach should be used with fungicides.

Mildew	6	United Kingdom	97
Yellow rust	3	East region	97
		West region	97
Brown rust	9	North region	96
Septoria tritici	5.4	Untreated yield	70
		First cereal	96
Fusarium	7	Second plus	97
Resistance to lodging with PGR	7	Light soils	96
		Heavy soils	97
Maturity	-2 -1 0 1 2 3	Specific weight	79.2

Group 1



KWS Ultimatum	Breeder	KWS UK Ltd	Agronomics
	Parentage	KWS Zyatt x Costello	

ADM's view - Newly recommended KWS Ultimatum brings a totally different wheat to grow alongside stablemate KWS Extase. Unlike KWS Extase, which has come from French breeding, KWS Ultimatum has been bred and selected in the UK so has a more familiar growth habit. As such, KWS Ultimatum can be sown a lot earlier than KWS Extase. KWS Ultimatum boasts a particularly high specific weight to aid its yield potential, but also offers slightly later maturity than other Group 2's for those growers wanting to grow large area but keep storage simple.

Mildew	7	United Kingdom	101
Yellow rust	9	East region	101
		West region	102
Brown rust	6	North region	[103]
Septoria tritici	6.4	Untreated yield	93
		First cereal	101
Fusarium	7	Second plus	[102]
Resistance to lodging with PGR	7	Light soils	[[101]]
		Heavy soils	100
Maturity	-2 -1 0 1 2 3	Specific weight	79.6

Group 2




Crusoe	Breeder	Limagrain UK Ltd	Agronomics
	Parentage	Cordiale x Gulliver	

ADM's view - Crusoe remains the benchmark for quality with consistent high proteins across years. Disease resistance in Crusoe is holding up incredibly well given the variety has now been on the Recommended List over 10 years. We know that Crusoe has a susceptibility to brown rust late in the season, but yellow rust resistance remains very strong, and its Septoria tritici score is holding up well too. Overall, despite its age, Crusoe still has an awful lot to offer Group 1 growers until we see the next generation of quality wheats arrive.

Mildew	7	United Kingdom	96
Yellow rust	9	East region	96
		West region	97
Brown rust	3	North region	94
Septoria tritici	6.2	Untreated yield	76
		First cereal	96
Fusarium	7	Second plus	94
Resistance to lodging with PGR	7	Light soils	94
		Heavy soils	96
Maturity	-2 -1 0 1 2 3	Specific weight	78.5

Group 1





RGT Rashid	Breeder	RAGT Seeds UK	Agronomics	OWBM resistance 
	Parentage	Icebreaker / Solo // Cougar		

ADM's view - RGT Rashid is one of ADM's trusted biscuit varieties within a group of relative newcomers to the sector. Septoria tritici resistance is a big topic in soft wheats currently and RGT Rashid is leading the way in the Group 3 sector with a score of 6.4. RGT Rashid is most suited to the south and east of England, as yield performance sits highest there, and the late maturity is aided by being positioned in those regions. RGT Rashid is a slow developing wheat, but still performs well in late sown trials so offers a very flexible sowing window.

Mildew	4	United Kingdom	100
Yellow rust	8	East region	101
		West region	97
Brown rust	6	North region	98
Septoria tritici	6.4	Untreated yield	81
		First cereal	99
Fusarium	7	Second plus	99
Resistance to lodging with PGR	8	Light soils	100
		Heavy soils	99
Maturity	-2 -1 0 1 2 3	Specific weight	77.0

Group 3




LG Astronomer	Breeder	Limagrain UK Ltd	Agronomics	OWBM resistance 
	Parentage	(Cougar x Leeds) x Britannia		

ADM's view - Despite being second to last for yield on the Recommended List, LG Astronomer offers soft wheat growers one of the most reliable options in the sector. Having the highest untreated yield in the group as well as a very high specific weight and stiffest straw, LG Astronomer ticks a lot of boxes for a lot of growers. LG Astronomer will suit a wide variety of growing circumstances and is particularly suited to reduced-input systems. Overall LG Astronomer offers biscuit wheat growers a very good combination of grain quality, disease scores and yield potential and should not be overlooked.

Mildew	4	United Kingdom	99
Yellow rust	9	East region	99
		West region	99
Brown rust	8	North region	97
Septoria tritici	6.2	Untreated yield	88
		First cereal	99
Fusarium	6	Second plus	98
Resistance to lodging with PGR	9	Light soils	99
		Heavy soils	100
Maturity	-2 -1 0 1 2 3	Specific weight	78.2

Group 3



ADM's seed processing plant at Long Sutton





RGT Bairstow	Breeder Parentage	RAGT Seeds UK Revelation / Santiago // Cougar	Agronomics	OWBM resistance 																																								
<p>ADM's view - RGT Bairstow has been knocked off the highest yielding Group 4 soft spot now by LG Redwald but still offers growers a very good soft wheat option. RGT Bairstow gives growers an excellent partner variety to LG Skyscraper and LG Redwald as it has a slower growth habit and later maturity. Overall, the variety is fairly similar to LG Skyscraper agronomically, but with one significant benefit of a higher resistance to Septoria tritici. RGT Bairstow gives growers a wide choice of rotational positions and soil type options with no clear preference, however growers should manage the straw on more fertile sites.</p>			<table border="1"> <tr><td>Mildew</td><td>6</td><td>United Kingdom</td><td>103</td></tr> <tr><td>Yellow rust</td><td>8</td><td>East region</td><td>103</td></tr> <tr><td>Brown rust</td><td>6</td><td>West region</td><td>103</td></tr> <tr><td>Septoria tritici</td><td>6.0</td><td>North region</td><td>103</td></tr> <tr><td>Fusarium</td><td>6</td><td>Untreated yield</td><td>87</td></tr> <tr><td>Resistance to lodging with PGR</td><td>6</td><td>First cereal</td><td>103</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 (2) 3</td><td>Second plus</td><td>103</td></tr> <tr><td></td><td></td><td>Light soils</td><td>105</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>104</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>76.8</td></tr> </table>		Mildew	6	United Kingdom	103	Yellow rust	8	East region	103	Brown rust	6	West region	103	Septoria tritici	6.0	North region	103	Fusarium	6	Untreated yield	87	Resistance to lodging with PGR	6	First cereal	103	Maturity	-2 -1 0 1 (2) 3	Second plus	103			Light soils	105			Heavy soils	104			Specific weight	76.8
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LG Skyscraper	Breeder Parentage	Limagrain UK Ltd (Cassius x NAWW 29) x KWS Santiago	Agronomics	OWBM resistance 																																								
<p>ADM's view - LG Skyscraper is now cemented as one of the most widely grown feed varieties in the UK, and for good reason. As a variety, LG Skyscraper remains one of the most consistent and best performers on farm. It's never had the highest Septoria tritici rating since being recommended, but yellow rust is holding up OK and yield performance is not dropping off, so consider this a classic 'high-input, high-output' wheat. LG Skyscraper has a fast speed of development in the spring, so is useful where a workload spread is required or if you need competition against grass weeds.</p>			<table border="1"> <tr><td>Mildew</td><td>7</td><td>United Kingdom</td><td>103</td></tr> <tr><td>Yellow rust</td><td>7</td><td>East region</td><td>103</td></tr> <tr><td>Brown rust</td><td>5</td><td>West region</td><td>103</td></tr> <tr><td>Septoria tritici</td><td>4.9</td><td>North region</td><td>102</td></tr> <tr><td>Fusarium</td><td>6</td><td>Untreated yield</td><td>86</td></tr> <tr><td>Resistance to lodging with PGR</td><td>6</td><td>First cereal</td><td>103</td></tr> <tr><td>Maturity</td><td>-2 -1 (0) 1 2 3</td><td>Second plus</td><td>104</td></tr> <tr><td></td><td></td><td>Light soils</td><td>103</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>103</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>77.3</td></tr> </table>		Mildew	7	United Kingdom	103	Yellow rust	7	East region	103	Brown rust	5	West region	103	Septoria tritici	4.9	North region	102	Fusarium	6	Untreated yield	86	Resistance to lodging with PGR	6	First cereal	103	Maturity	-2 -1 (0) 1 2 3	Second plus	104			Light soils	103			Heavy soils	103			Specific weight	77.3
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LG Redwald	Breeder Parentage	Limagrain UK Ltd LG Sundance x LG Generation	Agronomics	OWBM resistance 																																								
<p>ADM's view - LG Redwald is a new addition to the Recommended List for the 2023 sowing season but has made an immediate impact by being the highest yielding variety available. Being an LG Sundance cross it shows a very good resistance to Septoria tritici and exceptional late-sown performance owing to its innate amounts of vigour. We recommend not to sow LG Redwald much before the start of October to best suit its growth rates. We would also suggest LG Redwald is best placed on medium / heavy soil types. Due to the height of the straw we recommend a full programme of growth regulators to be used with LG Redwald to maintain maximum yield potential.</p>			<table border="1"> <tr><td>Mildew</td><td>6</td><td>United Kingdom</td><td>107</td></tr> <tr><td>Yellow rust</td><td>7</td><td>East region</td><td>107</td></tr> <tr><td>Brown rust</td><td>6</td><td>West region</td><td>109</td></tr> <tr><td>Septoria tritici</td><td>6.7</td><td>North region</td><td>[103]</td></tr> <tr><td>Fusarium</td><td>6</td><td>Untreated yield</td><td>92</td></tr> <tr><td>Resistance to lodging with PGR</td><td>5</td><td>First cereal</td><td>107</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 (2) 3</td><td>Second plus</td><td>[109]</td></tr> <tr><td></td><td></td><td>Light soils</td><td>[105]</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>107</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>75.5</td></tr> </table>		Mildew	6	United Kingdom	107	Yellow rust	7	East region	107	Brown rust	6	West region	109	Septoria tritici	6.7	North region	[103]	Fusarium	6	Untreated yield	92	Resistance to lodging with PGR	5	First cereal	107	Maturity	-2 -1 0 1 (2) 3	Second plus	[109]			Light soils	[105]			Heavy soils	107			Specific weight	75.5
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RGT Highgrove	Breeder Parentage	RAGT Seeds UK Undisclosed	Agronomics	OWBM resistance 																												
<p>ADM's view - RGT Highgrove isn't a name that will be instantly recognisable and you won't see it on the Recommended List. However, it has stood out in trials over the past couple of years so strongly we couldn't afford to overlook it. On any trial site that has suffered from drought or prolonged periods of stress RGT Highgrove has consistently stood out as looking far superior to anything else. Coming from a French breeding programme RGT Highgrove is very early to mature and holds novel Septoria tritici resistance, not seen in any other varieties on sale in the UK, so is less likely to break down over time.</p>			<p><i>Variety data from a different trial set so cannot be directly compared</i></p> <table border="1"> <tr><td>Mildew</td><td>8</td><td>United Kingdom</td><td>107</td></tr> <tr><td>Yellow rust</td><td>9</td><td>Untreated yield</td><td>114</td></tr> <tr><td>Brown rust</td><td>6</td><td>Specific weight</td><td>78.8</td></tr> <tr><td>Septoria tritici</td><td>6.5</td><td></td><td></td></tr> <tr><td>Fusarium</td><td>7</td><td></td><td></td></tr> <tr><td>Resistance to lodging with PGR</td><td>0%</td><td></td><td></td></tr> <tr><td>Maturity</td><td>-2 -1 0 (1) 2 3</td><td></td><td></td></tr> </table>		Mildew	8	United Kingdom	107	Yellow rust	9	Untreated yield	114	Brown rust	6	Specific weight	78.8	Septoria tritici	6.5			Fusarium	7			Resistance to lodging with PGR	0%			Maturity	-2 -1 0 (1) 2 3		
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Champion	Breeder Parentage	DSV UK Ltd Reflection x DSV20122	Agronomics	OWBM resistance 																																								
<p>ADM's view - Champion by name, Champion by every measure! The yield potential of Champion is exceptional and its disease scores are very strong, especially Septoria tritici which is the highest of all the mainstream feed varieties. Champion has a very vigorous growth habit and is suited to later sowing or in reduced/no-till situations as a variety with good inherent vigour. Champion has a strong tillering ability, so reducing seed rates below farm standard should be considered for best results and to help increase specific weight.</p>			<table border="1"> <tr><td>Mildew</td><td>7</td><td>United Kingdom</td><td>106</td></tr> <tr><td>Yellow rust</td><td>8</td><td>East region</td><td>107</td></tr> <tr><td>Brown rust</td><td>5</td><td>West region</td><td>106</td></tr> <tr><td>Septoria tritici</td><td>8.1</td><td>North region</td><td>102</td></tr> <tr><td>Fusarium</td><td>6</td><td>Untreated yield</td><td>93</td></tr> <tr><td>Resistance to lodging with PGR</td><td>6</td><td>First cereal</td><td>106</td></tr> <tr><td>Maturity</td><td>-2 -1 (0) 1 2 3</td><td>Second plus</td><td>107</td></tr> <tr><td></td><td></td><td>Light soils</td><td>106</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>107</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>75.5</td></tr> </table>		Mildew	7	United Kingdom	106	Yellow rust	8	East region	107	Brown rust	5	West region	106	Septoria tritici	8.1	North region	102	Fusarium	6	Untreated yield	93	Resistance to lodging with PGR	6	First cereal	106	Maturity	-2 -1 (0) 1 2 3	Second plus	107			Light soils	106			Heavy soils	107			Specific weight	75.5
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KWS Dawsum	Breeder Parentage	KWS UK Ltd KWS Kerrin x Costello	Agronomics	OWBM resistance 																																								
<p>ADM's view - KWS Dawsum is the latest blockbuster feed wheat from KWS, boasting an impressive all-round performance. Its Costello heritage brings fantastic grain quality, making this the highest rated specific weight variety behind Costello. Disease scores are excellent across the board, and a particular strength is yellow rust resistance, like many Costello derivatives. KWS Dawsum has a slow speed of development in the autumn, so suits earlier sowings. The only Achilles heel for KWS Dawsum is that it doesn't have midge resistance. If this is a trait you desire then perhaps look elsewhere, but if not this may just be the perfect variety for a lot of growers.</p>			<table border="1"> <tr><td>Mildew</td><td>8</td><td>United Kingdom</td><td>104</td></tr> <tr><td>Yellow rust</td><td>9</td><td>East region</td><td>103</td></tr> <tr><td>Brown rust</td><td>7</td><td>West region</td><td>105</td></tr> <tr><td>Septoria tritici</td><td>6.4</td><td>North region</td><td>105</td></tr> <tr><td>Fusarium</td><td>7</td><td>Untreated yield</td><td>95</td></tr> <tr><td>Resistance to lodging with PGR</td><td>7</td><td>First cereal</td><td>104</td></tr> <tr><td>Maturity</td><td>-2 -1 0 (1) 2 3</td><td>Second plus</td><td>105</td></tr> <tr><td></td><td></td><td>Light soils</td><td>105</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>104</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>80.0</td></tr> </table>		Mildew	8	United Kingdom	104	Yellow rust	9	East region	103	Brown rust	7	West region	105	Septoria tritici	6.4	North region	105	Fusarium	7	Untreated yield	95	Resistance to lodging with PGR	7	First cereal	104	Maturity	-2 -1 0 (1) 2 3	Second plus	105			Light soils	105			Heavy soils	104			Specific weight	80.0
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SY Insector	Breeder Parentage	Syngenta Hereford x AB111-1101	Agronomics	OWBM resistance 																																								
<p>ADM's view - SY Insector is king of the light land, with its incredible ability to build root structures and fill grain courtesy of its very high specific weight. SY Insector is tall strawed, providing a valuable additional income, and its Septoria tritici resistance has held up well. It has seen a reduction in rust scores since its first year of recommendation, so this should be monitored, and the variety would benefit from a robust fungicide programme. Positionally SY Insector is a very strong second wheat, courtesy of its rooting architecture and suits medium/late sowings.</p>			<table border="1"> <tr><td>Mildew</td><td>7</td><td>United Kingdom</td><td>104</td></tr> <tr><td>Yellow rust</td><td>5</td><td>East region</td><td>104</td></tr> <tr><td>Brown rust</td><td>6</td><td>West region</td><td>105</td></tr> <tr><td>Septoria tritici</td><td>6.4</td><td>North region</td><td>105</td></tr> <tr><td>Fusarium</td><td>7</td><td>Untreated yield</td><td>82</td></tr> <tr><td>Resistance to lodging with PGR</td><td>7</td><td>First cereal</td><td>104</td></tr> <tr><td>Maturity</td><td>-2 -1 0 (1) 2 3</td><td>Second plus</td><td>105</td></tr> <tr><td></td><td></td><td>Light soils</td><td>106</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>104</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>78.9</td></tr> </table>		Mildew	7	United Kingdom	104	Yellow rust	5	East region	104	Brown rust	6	West region	105	Septoria tritici	6.4	North region	105	Fusarium	7	Untreated yield	82	Resistance to lodging with PGR	7	First cereal	104	Maturity	-2 -1 0 (1) 2 3	Second plus	105			Light soils	106			Heavy soils	104			Specific weight	78.9
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Gleam	Breeder Parentage	Syngenta KWS Kielder x Hereford	Agronomics	OWBM resistance 																																								
<p>ADM's view - Gleam is the benchmark variety in terms of consistency and flexible use on farm. Whether sowing early, late, on light land or heavy land, Gleam is easily adaptable in nearly all situations. Septoria tritici resistance remains reasonable considering how long it's been recommended, but its yellow rust ratings have seen a gradual decline so this should be monitored in the crop. Gleam still has fantastic market share which is testament to its reliability for growers. If you want a tried and tested feed wheat variety, you can't go far wrong with Gleam.</p>			<table border="1"> <tr><td>Mildew</td><td>7</td><td>United Kingdom</td><td>103</td></tr> <tr><td>Yellow rust</td><td>5</td><td>East region</td><td>103</td></tr> <tr><td>Brown rust</td><td>6</td><td>West region</td><td>104</td></tr> <tr><td>Septoria tritici</td><td>5.7</td><td>North region</td><td>103</td></tr> <tr><td>Fusarium</td><td>6</td><td>Untreated yield</td><td>84</td></tr> <tr><td>Resistance to lodging with PGR</td><td>7</td><td>First cereal</td><td>103</td></tr> <tr><td>Maturity</td><td>-2 -1 (0) 1 2 3</td><td>Second plus</td><td>103</td></tr> <tr><td></td><td></td><td>Light soils</td><td>103</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>103</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>77.3</td></tr> </table>		Mildew	7	United Kingdom	103	Yellow rust	5	East region	103	Brown rust	6	West region	104	Septoria tritici	5.7	North region	103	Fusarium	6	Untreated yield	84	Resistance to lodging with PGR	7	First cereal	103	Maturity	-2 -1 (0) 1 2 3	Second plus	103			Light soils	103			Heavy soils	103			Specific weight	77.3
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Winter Wheat

Spring Wheat & Rye

KWS Cranium	Breeder Parentage	KWS UK Ltd KWS Crispin x KWS Kielder	Agronomics	OWBM resistance 																																								
<p>ADM's view - A KWS Crispin cross, KWS Cranium inherits fantastic late-drilled vigour, which is traced back to its grandparent Conqueror. After root crops or maize, KWS Cranium is a default choice for growers and is also well adapted to reduced / no-till systems. Septoria tritici resistance is holding up reasonably and KWS Cranium remains strong on yellow rust. Later maturity will naturally favour sites in the midlands and south. For those growers battling grass weeds, KWS Cranium has the right growth habit to help overcome these troublesome weeds.</p>			 <table border="1"> <tr><td>Mildew</td><td>6</td><td>United Kingdom</td><td>102</td></tr> <tr><td>Yellow rust</td><td>9</td><td>East region</td><td>103</td></tr> <tr><td>Brown rust</td><td>4</td><td>West region</td><td>101</td></tr> <tr><td></td><td></td><td>North region</td><td>102</td></tr> <tr><td>Septoria tritici</td><td>5.9</td><td>Untreated yield</td><td>82</td></tr> <tr><td>Fusarium</td><td>7</td><td>First cereal</td><td>102</td></tr> <tr><td>Resistance to lodging with PGR</td><td>8</td><td>Second plus</td><td>103</td></tr> <tr><td></td><td></td><td>Light soils</td><td>103</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>101</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Specific weight</td><td>75.8</td></tr> </table>		Mildew	6	United Kingdom	102	Yellow rust	9	East region	103	Brown rust	4	West region	101			North region	102	Septoria tritici	5.9	Untreated yield	82	Fusarium	7	First cereal	102	Resistance to lodging with PGR	8	Second plus	103			Light soils	103			Heavy soils	101	Maturity	-2 -1 0 1 2 3	Specific weight	75.8
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Graham	Breeder Parentage	Syngenta Premio x Expert	Agronomics	OWBM resistance 																																								
<p>ADM's view - Graham is a stalwart of the Syngenta breeding programme and has been a solid variety choice for growers in the West, or those looking for an early-sown wheat variety. Yellow rust and Septoria tritici resistances have held up exceptionally well, aiding its consistency of performance on farm. Yield is starting to fall back now compared to some newer varieties, but still remains more than acceptable, and grain quality has proven to be good too. The only criticism you can throw Graham's way is that it doesn't have midge resistance. Otherwise it's a sure bet still after five years of recommendation.</p>			 <table border="1"> <tr><td>Mildew</td><td>6</td><td>United Kingdom</td><td>102</td></tr> <tr><td>Yellow rust</td><td>8</td><td>East region</td><td>101</td></tr> <tr><td>Brown rust</td><td>5</td><td>West region</td><td>105</td></tr> <tr><td></td><td></td><td>North region</td><td>102</td></tr> <tr><td>Septoria tritici</td><td>6.7</td><td>Untreated yield</td><td>93</td></tr> <tr><td>Fusarium</td><td>7</td><td>First cereal</td><td>102</td></tr> <tr><td>Resistance to lodging with PGR</td><td>8</td><td>Second plus</td><td>102</td></tr> <tr><td></td><td></td><td>Light soils</td><td>102</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>102</td></tr> <tr><td>Maturity</td><td>-2 (-1) 0 1 2 3</td><td>Specific weight</td><td>77.6</td></tr> </table>		Mildew	6	United Kingdom	102	Yellow rust	8	East region	101	Brown rust	5	West region	105			North region	102	Septoria tritici	6.7	Untreated yield	93	Fusarium	7	First cereal	102	Resistance to lodging with PGR	8	Second plus	102			Light soils	102			Heavy soils	102	Maturity	-2 (-1) 0 1 2 3	Specific weight	77.6
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LG Typhoon	Breeder Parentage	Limagrain UK Ltd Garrus x LGW88	Agronomics	OWBM resistance 																																								
<p>ADM's view - New to the ADM portfolio for this year, LG Typhoon provides growers with an exceptionally slow developing wheat suitable for early sowing. Yield sits a way down the feed varieties but this variety isn't about yield, it's about slow speed of development and ultimate disease protection, scoring very highly for yellow rust and Septoria tritici whilst offering midge resistance. Another key strength for LG Typhoon is its second wheat performance which shouldn't be overlooked.</p>			 <table border="1"> <tr><td>Mildew</td><td>6</td><td>United Kingdom</td><td>101</td></tr> <tr><td>Yellow rust</td><td>9</td><td>East region</td><td>101</td></tr> <tr><td>Brown rust</td><td>6</td><td>West region</td><td>100</td></tr> <tr><td></td><td></td><td>North region</td><td>101</td></tr> <tr><td>Septoria tritici</td><td>7.3</td><td>Untreated yield</td><td>92</td></tr> <tr><td>Fusarium</td><td>6</td><td>First cereal</td><td>100</td></tr> <tr><td>Resistance to lodging with PGR</td><td>7</td><td>Second plus</td><td>103</td></tr> <tr><td></td><td></td><td>Light soils</td><td>102</td></tr> <tr><td></td><td></td><td>Heavy soils</td><td>100</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Specific weight</td><td>77.1</td></tr> </table>		Mildew	6	United Kingdom	101	Yellow rust	9	East region	101	Brown rust	6	West region	100			North region	101	Septoria tritici	7.3	Untreated yield	92	Fusarium	6	First cereal	100	Resistance to lodging with PGR	7	Second plus	103			Light soils	102			Heavy soils	100	Maturity	-2 -1 0 1 2 3	Specific weight	77.1
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RGT Grouse	Breeder Parentage	RAGT Seeds UK Undisclosed	Agronomics	BYDV  OWBM resistance 																												
<p>ADM's view - RGT Grouse offers an exciting opportunity for feed wheat growers to remove the need for autumn insecticides thanks to its genetic resistance to BYDV. RGT Grouse has been specifically bred to target the early sowing window with a slow and very prostrate growth habit. If you take up the Integrated pesticide management (IPM) option with the Environmental Land Management Scheme (ELMS) and opt to the no insecticide option you can also benefit from £45/ha, which makes RGT Grouse the best-value seed currently available in the market.</p>			 <table border="1"> <tr><td>Mildew</td><td>7</td><td>United Kingdom</td><td>114</td></tr> <tr><td>Yellow rust</td><td>5</td><td>Untreated yield</td><td>108</td></tr> <tr><td>Brown rust</td><td>5</td><td>Specific weight</td><td>76.7</td></tr> <tr><td>Septoria tritici</td><td>5.5</td><td></td><td></td></tr> <tr><td>Fusarium</td><td>6.2</td><td></td><td></td></tr> <tr><td>Resistance to lodging with PGR</td><td>0%</td><td></td><td></td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td></td><td></td></tr> </table>		Mildew	7	United Kingdom	114	Yellow rust	5	Untreated yield	108	Brown rust	5	Specific weight	76.7	Septoria tritici	5.5			Fusarium	6.2			Resistance to lodging with PGR	0%			Maturity	-2 -1 0 1 2 3		
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KWS Ladum	Breeder Parentage	KWS UK Ltd KWS Sywell x KWS Talland	Agronomics	OWBM resistance 																				
<p>ADM's view - KWS Ladum finally offers growers an alternative Group 1 milling option to Mulika. KWS Ladum offers fantastic grain quality and the ability for growers to have the flexibility to sow from November all the way through to the end of spring.</p>			 <table border="1"> <tr><td>Mildew</td><td>[7]</td><td>United Kingdom</td><td>102</td></tr> <tr><td>Yellow rust</td><td>6</td><td>Specific weight</td><td>78.0</td></tr> <tr><td>Brown rust</td><td>7</td><td></td><td></td></tr> <tr><td>Septoria tritici</td><td>[7]</td><td></td><td></td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td></td><td></td></tr> </table>		Mildew	[7]	United Kingdom	102	Yellow rust	6	Specific weight	78.0	Brown rust	7			Septoria tritici	[7]			Maturity	-2 -1 0 1 2 3		
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KWS Alicium	Breeder Parentage	KWS UK Ltd KWS 13-21 x Astrid	Agronomics	OWBM resistance 																				
<p>ADM's view - KWS Alicium is about as close to the perfect spring wheat variety as we can get. It has fantastic grain quality, the highlight being a specific weight of over 80kg/hl. Good agronomics and an early maturity mean that KWS Alicium is a sure bet for any spring-sown or late winter-sown wheat.</p>			 <table border="1"> <tr><td>Mildew</td><td>[8]</td><td>United Kingdom</td><td>105</td></tr> <tr><td>Yellow rust</td><td>6</td><td>Specific weight</td><td>80.3</td></tr> <tr><td>Brown rust</td><td>6</td><td></td><td></td></tr> <tr><td>Septoria tritici</td><td>[7]</td><td></td><td></td></tr> <tr><td>Maturity</td><td>-2 (-1) 0 1 2 3</td><td></td><td></td></tr> </table>		Mildew	[8]	United Kingdom	105	Yellow rust	6	Specific weight	80.3	Brown rust	6			Septoria tritici	[7]			Maturity	-2 (-1) 0 1 2 3		
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KWS Serafino	Breeder Parentage	KWS UK Ltd F1 Hybrid	Agronomics	OWBM resistance 																				
<p>ADM's view - KWS Serafino is a high yielding grain-orientated hybrid rye on the AHDB Descriptive List, a market growing year on year as growers look for additional species to maximise diversity in the rotation. Interest is really picking up in the UK as growers look for viable alternatives to second wheat and more reliable options on light land. Rye needs much less water to reach to grain maturity compared with other cereals, so is well suited to lighter soil types. However crops can successfully be grown on heavier soil types, with yield potential exceeding that of a second wheat or winter barley. A true dual-purpose variety, KWS Serafino's wholecrop yield is not compromised so it really is a one-stop shop for growers looking to maximise their marketing options from the crop, or needing flexibility should wholecrop contracts be disputed post planting. The major disease rye is susceptible to is brown rust, but KWS Serafino has the highest rating against this particular disease.</p>			 <table border="1"> <tr><td>Brown rust</td><td>7</td><td>Fungicide-treated grain yield</td><td>101</td></tr> <tr><td>Ripening</td><td>-2 -1 0 1 2 3</td><td>Straw length</td><td>131</td></tr> <tr><td></td><td></td><td>Protein content</td><td>9.1</td></tr> <tr><td></td><td></td><td>Hagberg</td><td>269</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>77.3</td></tr> </table>		Brown rust	7	Fungicide-treated grain yield	101	Ripening	-2 -1 0 1 2 3	Straw length	131			Protein content	9.1			Hagberg	269			Specific weight	77.3
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Craft	Breeder	Syngenta	Agronomics	BaYMV resistance																																								
	Parentage	SY 208-56 x SY Venture																																										
<p>ADM's view - The market-leading winter malting barley, Craft continues to deliver consistent performance on farm, with good grain quality and acceptable all-round disease resistance. The variety has the stiffest straw in its category. It favours lighter sites and looks highly likely to continue to dominate this market segment.</p>			<table border="1"> <tr><td>Mildew</td><td>6</td><td>United Kingdom</td><td>94</td></tr> <tr><td>Brown rust</td><td>7</td><td>East region</td><td>94</td></tr> <tr><td>Rhynchosporium</td><td>6</td><td>West region</td><td>94</td></tr> <tr><td>Net blotch</td><td>5</td><td>North region</td><td>94</td></tr> <tr><td>Resistance to lodging</td><td>8</td><td>Untreated yield</td><td>79</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Light soil yield</td><td>95</td></tr> <tr><td></td><td></td><td>Heavy soil yield</td><td>95</td></tr> <tr><td></td><td></td><td>Straw height</td><td>89</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>1.71</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>70.7</td></tr> </table>		Mildew	6	United Kingdom	94	Brown rust	7	East region	94	Rhynchosporium	6	West region	94	Net blotch	5	North region	94	Resistance to lodging	8	Untreated yield	79	Maturity	-2 -1 0 1 2 3	Light soil yield	95			Heavy soil yield	95			Straw height	89			Nitrogen	1.71			Specific weight	70.7
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<p>Two-row malting</p>																																												

KWS Feeris	Breeder	KWS UK Ltd	Agronomics	BYDV BaYMV resistance																																								
	Parentage	Amistar x KWS Kosmos																																										
<p>ADM's view - With specific recommendation for BYDV tolerance, six-row conventional KWS Feeris sits only a few of percent below the highest yielding variety, and delivers an excellent risk management tool for barley growers in high-pressure BYDV hotspots. Along with its outstanding yield potential, KWS Feeris has fantastic grain quality, really pushing the six-rows forward in this area. KWS Feeris also has exceptionally stiff straw and great disease resistance.</p>			<table border="1"> <tr><td>Mildew</td><td>4</td><td>United Kingdom</td><td>103</td></tr> <tr><td>Brown rust</td><td>6</td><td>East region</td><td>103</td></tr> <tr><td>Rhynchosporium</td><td>6</td><td>West region</td><td>103</td></tr> <tr><td>Net blotch</td><td>6</td><td>North region</td><td>100</td></tr> <tr><td>Resistance to lodging</td><td>7</td><td>Untreated yield</td><td>85</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Light soil yield</td><td>101</td></tr> <tr><td></td><td></td><td>Heavy soil yield</td><td>105</td></tr> <tr><td></td><td></td><td>Straw height</td><td>95</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>1.76</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>69.8</td></tr> </table>		Mildew	4	United Kingdom	103	Brown rust	6	East region	103	Rhynchosporium	6	West region	103	Net blotch	6	North region	100	Resistance to lodging	7	Untreated yield	85	Maturity	-2 -1 0 1 2 3	Light soil yield	101			Heavy soil yield	105			Straw height	95			Nitrogen	1.76			Specific weight	69.8
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<p>Six-row feed</p>																																												

LG Caravelle	Breeder	Limagrain UK Ltd	Agronomics	BaYMV resistance																																								
	Parentage	LGBU11 - 5493B x KWS Moselle																																										
<p>ADM's view - Newly recommended LG Caravelle has joined the 23/24 AHDB Recommended List not only as the highest yielding two-row, but as the highest yielding winter barley FULL STOP. With yields rivalling the hybrids, we expect LG Caravelle to be a popular choice this autumn. LG Caravelle also has an exceptional disease package, and is early to mature.</p>			<table border="1"> <tr><td>Mildew</td><td>7</td><td>United Kingdom</td><td>106</td></tr> <tr><td>Brown rust</td><td>7</td><td>East region</td><td>109</td></tr> <tr><td>Rhynchosporium</td><td>6</td><td>West region</td><td>[105]</td></tr> <tr><td>Net blotch</td><td>[5]</td><td>North region</td><td>[104]</td></tr> <tr><td>Resistance to lodging</td><td>7</td><td>Untreated yield</td><td>89</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Light soil yield</td><td>103</td></tr> <tr><td></td><td></td><td>Heavy soil yield</td><td>[106]</td></tr> <tr><td></td><td></td><td>Straw height</td><td>85</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>-</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>71.8</td></tr> </table>		Mildew	7	United Kingdom	106	Brown rust	7	East region	109	Rhynchosporium	6	West region	[105]	Net blotch	[5]	North region	[104]	Resistance to lodging	7	Untreated yield	89	Maturity	-2 -1 0 1 2 3	Light soil yield	103			Heavy soil yield	[106]			Straw height	85			Nitrogen	-			Specific weight	71.8
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<p>Two-row feed</p>																																												

SY Kingsbarn	Breeder	Syngenta	Agronomics	BaYMV resistance																																								
	Parentage	F1 Hybrid																																										
<p>ADM's view - SY Kingsbarn is currently the most widely grown hybrid barley variety in the UK. SY Kingsbarn is the market leader for good reason, with consistently high yields in all regions. Solid disease resistance scores and excellent grain characteristics mean SY Kingsbarn has definitely set the bar high for any new hybrids joining the RL. Along with other hybrids, the early maturity is a positive for harvest workload and OSR entry. We expect SY Kingsbarn to continue to be a popular choice on farm.</p>			<table border="1"> <tr><td>Mildew</td><td>7</td><td>United Kingdom</td><td>106</td></tr> <tr><td>Brown rust</td><td>5</td><td>East region</td><td>106</td></tr> <tr><td>Rhynchosporium</td><td>6</td><td>West region</td><td>106</td></tr> <tr><td>Net blotch</td><td>5</td><td>North region</td><td>107</td></tr> <tr><td>Resistance to lodging</td><td>7</td><td>Untreated yield</td><td>85</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Light soil yield</td><td>105</td></tr> <tr><td></td><td></td><td>Heavy soil yield</td><td>105</td></tr> <tr><td></td><td></td><td>Straw height</td><td>104</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>-</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>70.9</td></tr> </table>		Mildew	7	United Kingdom	106	Brown rust	5	East region	106	Rhynchosporium	6	West region	106	Net blotch	5	North region	107	Resistance to lodging	7	Untreated yield	85	Maturity	-2 -1 0 1 2 3	Light soil yield	105			Heavy soil yield	105			Straw height	104			Nitrogen	-			Specific weight	70.9
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<p>Hybrid six-row feed</p>																																												

KWS Tardis	Breeder	KWS UK Ltd	Agronomics	BaYMV resistance																																								
	Parentage	(11-12 x KWS Orwell)																																										
<p>ADM's view - After another outstanding year, both on farm and in trials, KWS Tardis will remain a popular choice with growers. KWS Tardis ticks all the boxes with high yields, accommodating a good all-round disease package and short stiff straw, resulting in great lodging resistance.</p>			<table border="1"> <tr><td>Mildew</td><td>5</td><td>United Kingdom</td><td>103</td></tr> <tr><td>Brown rust</td><td>6</td><td>East region</td><td>105</td></tr> <tr><td>Rhynchosporium</td><td>6</td><td>West region</td><td>102</td></tr> <tr><td>Net blotch</td><td>5</td><td>North region</td><td>102</td></tr> <tr><td>Resistance to lodging</td><td>8</td><td>Untreated yield</td><td>85</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Light soil yield</td><td>102</td></tr> <tr><td></td><td></td><td>Heavy soil yield</td><td>107</td></tr> <tr><td></td><td></td><td>Straw height</td><td>85</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>-</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>70.6</td></tr> </table>		Mildew	5	United Kingdom	103	Brown rust	6	East region	105	Rhynchosporium	6	West region	102	Net blotch	5	North region	102	Resistance to lodging	8	Untreated yield	85	Maturity	-2 -1 0 1 2 3	Light soil yield	102			Heavy soil yield	107			Straw height	85			Nitrogen	-			Specific weight	70.6
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Bolton	Breeder	Elsoms Ackermann Barley	Agronomics	BaYMV resistance																																								
	Parentage	KWS Cassia x California																																										
<p>ADM's view - Bolton is well adapted to all of the UK, but performs particularly well in the East, delivering consistently high yields. Bolton is also supported by a strong disease package and exceptionally stiff straw, boasting a score of 8 for lodging resistance.</p>			<table border="1"> <tr><td>Mildew</td><td>6</td><td>United Kingdom</td><td>103</td></tr> <tr><td>Brown rust</td><td>6</td><td>East region</td><td>105</td></tr> <tr><td>Rhynchosporium</td><td>5</td><td>West region</td><td>101</td></tr> <tr><td>Net blotch</td><td>5</td><td>North region</td><td>102</td></tr> <tr><td>Resistance to lodging</td><td>8</td><td>Untreated yield</td><td>86</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Light soil yield</td><td>103</td></tr> <tr><td></td><td></td><td>Heavy soil yield</td><td>105</td></tr> <tr><td></td><td></td><td>Straw height</td><td>83</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>-</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>69.9</td></tr> </table>		Mildew	6	United Kingdom	103	Brown rust	6	East region	105	Rhynchosporium	5	West region	101	Net blotch	5	North region	102	Resistance to lodging	8	Untreated yield	86	Maturity	-2 -1 0 1 2 3	Light soil yield	103			Heavy soil yield	105			Straw height	83			Nitrogen	-			Specific weight	69.9
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BYDV explained

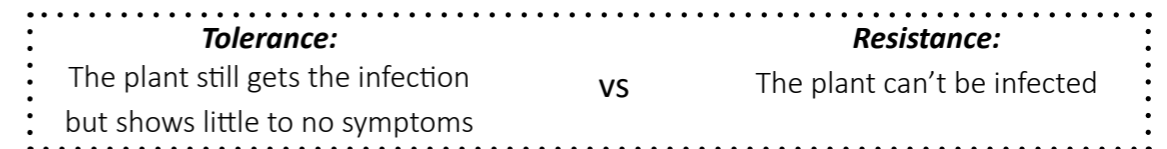
Vectors: Aphids; made worse in mild winters and early sown crops.

Symptoms: Yellowing, wilting; resulting in yield loss.

Where: Traditionally coastal areas in the south/south east/south west. However, when autumn and winters are mild, almost anywhere in the UK can be affected.

Control: Pyrethroids just before peak infection - once symptoms appear its too late!

Resistance is building to pyrethroids so the answer is varietal **Tolerance** or **Resistance**.



Null-Lox

Null-Lox was originally a term to describe the first non (null) lipoxygenase (lox) spring barley varieties. The beer benefits from a fresher taste, increased storage times and improved flavour and foam stability. In recent years the original Null-Lox varieties have been enhanced to produce a line of varieties known as 3G and 4G. Both of these carry the original Null-Lox traits but 3G adds the '0-DMS' trait which stops the formation of dimethyl sulphide (DMS) during the malting and brewing processes. This allows the maltsters to reduce their kiln temperatures whilst also reducing the time per batch. In addition it allows the brewer to use less water so overall there is a significant carbon saving from using 3G and 4G barley. Finally, 4G stacks another trait on top of all of these making the barley / malt proanthocyanidin-free. Removal of this gives the final beer a much clearer appearance and reduces the need for brewers to rely on stabilisation agents to achieve the same result.

CB Score	Breeder Parentage	ADM Agriculture Ltd (CB China x RGT Planet) x (Lauxana x Laureate)	Agronomics																																
ADM's view	ADM's view - CB Score is a variety that has been specifically bred for Carlsberg, and comes from a new generation of Null-Lox, Null-Lox4G, giving improved beer quality among other benefits. Not only is CB Score a unique offering, it is a great variety in its own right. CB Score sits on the AHDB Recommended List as a described variety, with yields 3% higher than RGT Planet. This variety boasts a 7 for Rhynchosporium and has excellent agronomics.		<table border="1"> <tr><td>Mildew</td><td>9</td><td>United Kingdom</td><td>101</td></tr> <tr><td>Brown rust</td><td>5</td><td>East region</td><td>101</td></tr> <tr><td>Rhynchosporium</td><td>7</td><td>West region</td><td>101</td></tr> <tr><td>Resistance to lodging</td><td>7</td><td>North region</td><td>101</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Untreated yield</td><td>92</td></tr> <tr><td></td><td></td><td>Straw height</td><td>71</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>[1.53]</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>67.8</td></tr> </table>	Mildew	9	United Kingdom	101	Brown rust	5	East region	101	Rhynchosporium	7	West region	101	Resistance to lodging	7	North region	101	Maturity	-2 -1 0 1 2 3	Untreated yield	92			Straw height	71			Nitrogen	[1.53]			Specific weight	67.8
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UK Null-Lox																																			

Laureate	Breeder Parentage	Syngenta Sanette x Concerto	Agronomics																																
ADM's view	ADM's view - With full MBC approval for brewing and malt distilling, Laureate largely dominates the UK spring barley market. Seven years on from first appearing on the Recommended List, Laureate remains consistently high yielding across all regions. This variety is supported by an excellent agronomic package and disease profile, particularly for Rhynchosporium, which is reflected in the variety's high untreated yields.		<table border="1"> <tr><td>Mildew</td><td>9</td><td>United Kingdom</td><td>103</td></tr> <tr><td>Brown rust</td><td>5</td><td>East region</td><td>103</td></tr> <tr><td>Rhynchosporium</td><td>7</td><td>West region</td><td>104</td></tr> <tr><td>Resistance to lodging</td><td>6</td><td>North region</td><td>102</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Untreated yield</td><td>94</td></tr> <tr><td></td><td></td><td>Straw height</td><td>70</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>1.52</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>67.2</td></tr> </table>	Mildew	9	United Kingdom	103	Brown rust	5	East region	103	Rhynchosporium	7	West region	104	Resistance to lodging	6	North region	102	Maturity	-2 -1 0 1 2 3	Untreated yield	94			Straw height	70			Nitrogen	1.52			Specific weight	67.2
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		Specific weight	67.2																																
Malting																																			

SY Tennyson	Breeder Parentage	Syngenta SY Splendor x LG Diablo	Agronomics																																
ADM's view	ADM's view - A new and exciting edition to the 2023/24 AHDB Recommended List, SY Tennyson is currently under test for MBC approval for both brewing and malt distilling. As the second highest yielding option on the list, this variety is also likely to be a popular choice for feed, particularly in the east where it excels with yields at 107% of control. Agronomically SY Tennyson has great lodging resistance and maturity similar to Laureate. The Rhynchosporium score could be a weak point for this variety, but we may see the rating increase slightly once we have more years of data.		<table border="1"> <tr><td>Mildew</td><td>9</td><td>United Kingdom</td><td>105</td></tr> <tr><td>Brown rust</td><td>4</td><td>East region</td><td>107</td></tr> <tr><td>Rhynchosporium</td><td>[3]</td><td>West region</td><td>[104]</td></tr> <tr><td>Net blotch</td><td>[7]</td><td>North region</td><td>106</td></tr> <tr><td>Maturity</td><td>-2 -1 0 1 2 3</td><td>Untreated yield</td><td>92</td></tr> <tr><td></td><td></td><td>Straw height</td><td>[69]</td></tr> <tr><td></td><td></td><td>Nitrogen</td><td>1.47</td></tr> <tr><td></td><td></td><td>Specific weight</td><td>66.6</td></tr> </table>	Mildew	9	United Kingdom	105	Brown rust	4	East region	107	Rhynchosporium	[3]	West region	[104]	Net blotch	[7]	North region	106	Maturity	-2 -1 0 1 2 3	Untreated yield	92			Straw height	[69]			Nitrogen	1.47			Specific weight	66.6
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Acacia	UK Agent Parentage	Limagrain UK Ltd	Agronomics																								
ADM's view	ADM's view - Acacia has had another good year in trials and remains one of the highest yielding conventionals on the 2023/24 Recommended List. Acacia has recommendation for the whole of the UK, but performs particularly well in the East/West region. Acacia is not as vigorous as some of its hybrid competitors, but its yield and consistency cannot be ignored. It exhibits moderate disease resistance, with relatively short stiff stems.		<table border="1"> <tr><td>Light leaf spot</td><td>6</td><td>E/W Gross output</td><td>101</td></tr> <tr><td>Stem canker</td><td>6</td><td>E/W Seed yield</td><td>102</td></tr> <tr><td>Resistance to lodging</td><td>8</td><td>N Gross output</td><td>101</td></tr> <tr><td>Stem stiffness</td><td>9</td><td>N Seed yield</td><td>101</td></tr> <tr><td>Maturity</td><td>1 2 3 4 5 6 7</td><td>Oil Content</td><td>45.0</td></tr> <tr><td></td><td></td><td>Plant height</td><td>141</td></tr> </table>	Light leaf spot	6	E/W Gross output	101	Stem canker	6	E/W Seed yield	102	Resistance to lodging	8	N Gross output	101	Stem stiffness	9	N Seed yield	101	Maturity	1 2 3 4 5 6 7	Oil Content	45.0			Plant height	141
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		Plant height	141																								
Conventional																											

Campus	UK Agent Parentage	KWS UK Ltd	Agronomics																								
ADM's view	ADM's view - Campus has been one of the most widely grown conventional varieties for the past seven years. The variety has very good vigour for a conventional variety, along with high oil content and moderate disease resistance. Campus will still be a popular choice for UK growers again for the 2023/24 season.		<table border="1"> <tr><td>Light leaf spot</td><td>6</td><td>E/W Gross output</td><td>99</td></tr> <tr><td>Stem canker</td><td>6</td><td>E/W Seed yield</td><td>99</td></tr> <tr><td>Resistance to lodging</td><td>8</td><td>N Gross output</td><td>102</td></tr> <tr><td>Stem stiffness</td><td>8</td><td>N Seed yield</td><td>102</td></tr> <tr><td>Maturity</td><td>1 2 3 4 5 6 7</td><td>Oil Content</td><td>45.2</td></tr> <tr><td></td><td></td><td>Plant height</td><td>147</td></tr> </table>	Light leaf spot	6	E/W Gross output	99	Stem canker	6	E/W Seed yield	99	Resistance to lodging	8	N Gross output	102	Stem stiffness	8	N Seed yield	102	Maturity	1 2 3 4 5 6 7	Oil Content	45.2			Plant height	147
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Companion cropping variety selection

Companion cropping can benefit oilseed rape crops by reducing weed pressure, fixing nitrogen and protecting against flea beetle, thereby improving establishment and yield. ADM's companion crop portfolio consists of Fix and Protect, Shielder and Beetle Blaster.



FIX AND PROTECT

40% TABOR Berseem Clover
60% LIFAGO Buckwheat



SHIELDER

50% LIFAGO Buckwheat
25% TABOR Berseem Clover
25% Fenugreek



BEETLE BLASTER

70% LIFAGO Buckwheat
30% Fenugreek


***TABOR berseem clover** (*Trifolium alexandrinum*) is an annual, nitrogen fixing legume that is the only single-cut berseem clover variety, which means it will not regrow after frost kill.

***LIFAGO Buckwheat** (*Fagopyrum tataricum*) is a different species to conventional buckwheat (*Fagopyrum esculentum*), it has rapid establishment, high vigour and creates a dense canopy to protect the oilseed rape plants.


***Fenugreek** (*Trigonella foenum-graecum*) produces a natural odour which deters the flea beetle from the oilseed rape crop. It also has fast establishment, high vigour and is frost killed.

DK Excited	UK Agent	Bayer CropScience	Agronomics <i>Variety data from a different trial set so cannot be directly compared</i>																																								
<p>ADM's view - DK Excited is proving to be well suited to early drilling and boasts very high vigour in both the autumn and spring. This hybrid features TuYV resistance, a key part of ADM's varietal selection criteria for new portfolio additions. It also has pod shatter resistance and excellent disease resistance, including a high stem canker score from the double-phoma resistance trait. Thanks to DK Excited's superb balance of traits and agronomic performance, we expect it to once again be a popular variety on farm for 2023 sowings. DK Excited is also supported by Bayer's industry-leading establishment scheme.</p>			<table border="1"> <tr> <td>Light leaf spot</td> <td>6</td> <td>UK Gross output</td> <td>5.56</td> </tr> <tr> <td>Stem canker</td> <td>8</td> <td>(based on data</td> <td>t/ha</td> </tr> <tr> <td>Resistance to lodging</td> <td>8</td> <td>from 2 trials sites)</td> <td></td> </tr> <tr> <td>Stem stiffness</td> <td>7</td> <td>UK Seed yield</td> <td>5.06</td> </tr> <tr> <td>Maturity</td> <td>4 5 (6)</td> <td>(based on data</td> <td>t/ha</td> </tr> <tr> <td></td> <td></td> <td>from 4 trials sites)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Oil Content</td> <td>46.91</td> </tr> <tr> <td></td> <td></td> <td>(based on data</td> <td></td> </tr> <tr> <td></td> <td></td> <td>from 2 UK trials sites)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>4</td> </tr> </table>	Light leaf spot	6	UK Gross output	5.56	Stem canker	8	(based on data	t/ha	Resistance to lodging	8	from 2 trials sites)		Stem stiffness	7	UK Seed yield	5.06	Maturity	4 5 (6)	(based on data	t/ha			from 4 trials sites)				Oil Content	46.91			(based on data				from 2 UK trials sites)				Plant height	4
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<p>Hybrid</p> 																																											


Attica	UK Agent	Limagrain UK Ltd	Agronomics																								
<p>ADM's view - Attica is loaded with all the traits we have come to expect from Limagrain's portfolio and has joined the new AHDB Recommended List as the second highest yielding variety. With TuYV resistance, pod shatter resistance and the RLM7 gene, Attica is easily the most attractive option on the RL with high yields and traits combined. With consistency in all regions and excellent all-round agronomics we expect Attica to be a natural successor to Aurelia and to be in high demand this autumn.</p>			<table border="1"> <tr> <td>Light leaf spot</td> <td>7</td> <td>E/W Gross output</td> <td>107</td> </tr> <tr> <td>Stem canker</td> <td>7</td> <td>E/W Seed yield</td> <td>107</td> </tr> <tr> <td>Resistance to lodging</td> <td>[8]</td> <td>N Gross output</td> <td>107</td> </tr> <tr> <td>Stem stiffness</td> <td>8</td> <td>N Seed yield</td> <td>106</td> </tr> <tr> <td>Maturity</td> <td>4 (5) 6</td> <td>Oil content</td> <td>45.3</td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>149</td> </tr> </table>	Light leaf spot	7	E/W Gross output	107	Stem canker	7	E/W Seed yield	107	Resistance to lodging	[8]	N Gross output	107	Stem stiffness	8	N Seed yield	106	Maturity	4 (5) 6	Oil content	45.3			Plant height	149
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LG Aviron	UK Agent	Limagrain UK Ltd	Agronomics																								
<p>ADM's view - LG Aviron has excellent yield potential across all regions of the UK and is stacked with traits; with genetic resistance to TuYV, pod shatter and Phoma. LG Aviron also features the N-Flex characteristic, which enables plants to make better use of available nitrogen, improving vigour and enabling higher yields. Its excellent autumn and spring vigour make LG Aviron an excellent option for growers offering flexibility for planting later, after wheat, or into September. Due to its vigorous nature, it performs well, even in challenging seedbeds, and helps the crop to grow away from pest damage. With LG Aviron's taller straw and high vigour, we advise low seed rates and to avoid drilling this variety before mid-August.</p>			<table border="1"> <tr> <td>Light leaf spot</td> <td>8</td> <td>E/W Gross output</td> <td>105</td> </tr> <tr> <td>Stem canker</td> <td>[7]</td> <td>E/W Seed yield</td> <td>106</td> </tr> <tr> <td>Resistance to lodging</td> <td>[8]</td> <td>N Gross output</td> <td>103</td> </tr> <tr> <td>Stem stiffness</td> <td>7</td> <td>N Seed yield</td> <td>105</td> </tr> <tr> <td>Maturity</td> <td>4 5 (6)</td> <td>Oil content</td> <td>44.4</td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>150</td> </tr> </table>	Light leaf spot	8	E/W Gross output	105	Stem canker	[7]	E/W Seed yield	106	Resistance to lodging	[8]	N Gross output	103	Stem stiffness	7	N Seed yield	105	Maturity	4 5 (6)	Oil content	44.4			Plant height	150
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Matrix CL	UK Agent	DSV UK Ltd	Agronomics																								
<p>ADM's view - As the first recommended Clearfield variety with TuYV resistance, pod shatter resistance and RLM7 protection, Matrix CL is a step forward for this segment of the OSR market. Proving to be high yielding in UK trials, Matrix CL is really raising the bar for any future Clearfields, and looks to be a promising variety that will likely become a firm favourite on farm. Matrix CL also has a great agronomic profile, including good light leaf spot scores, a very stiff stem and early maturity.</p>			<table border="1"> <tr> <td>Light leaf spot</td> <td>6</td> <td>E/W Gross output</td> <td>99</td> </tr> <tr> <td>Stem canker</td> <td>8</td> <td>E/W Seed yield</td> <td>98</td> </tr> <tr> <td>Resistance to lodging</td> <td>[8]</td> <td>N Gross output</td> <td>95</td> </tr> <tr> <td>Stem stiffness</td> <td>8</td> <td>N Seed yield</td> <td>95</td> </tr> <tr> <td>Maturity</td> <td>4 5 (6)</td> <td>Oil content</td> <td>45.6</td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>152</td> </tr> </table>	Light leaf spot	6	E/W Gross output	99	Stem canker	8	E/W Seed yield	98	Resistance to lodging	[8]	N Gross output	95	Stem stiffness	8	N Seed yield	95	Maturity	4 5 (6)	Oil content	45.6			Plant height	152
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Duplo	UK Agent	DSV UK Ltd	Agronomics <i>Variety data from a different trial set so cannot be directly compared</i>																				
<p>ADM's view - Triple-layered Duplo from DSV stacks resistance to TuYV, pod shatter and RLM7 resistance to Phoma. Duplo is the first variety with DSV's new N-efficiency, allowing growers to get the highest possible response to nitrogen fertilisers. Duplo also offers exceptional autumn vigour, the best we've seen in a variety so far. Duplo is packed, uniquely, in 1.8 million-seed packs, giving growers an additional 20% seed at no extra cost, to help increase seed rates in the most challenging of establishment areas.</p>			<table border="1"> <tr> <td>Light leaf spot</td> <td>5</td> <td>Gross output</td> <td>109</td> </tr> <tr> <td>Stem canker</td> <td>9</td> <td>Seed yield</td> <td>107</td> </tr> <tr> <td>Resistance to lodging</td> <td>8</td> <td>Oil Content</td> <td>46.8</td> </tr> <tr> <td>Stem stiffness</td> <td>8</td> <td></td> <td></td> </tr> <tr> <td>Maturity</td> <td>4 5 (6)</td> <td></td> <td></td> </tr> </table>	Light leaf spot	5	Gross output	109	Stem canker	9	Seed yield	107	Resistance to lodging	8	Oil Content	46.8	Stem stiffness	8			Maturity	4 5 (6)		
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V3670L	UK Agent	Bayer CropScience	Agronomics <i>Variety data from a different trial set so cannot be directly compared</i>																																								
<p>ADM's view - V3670L is the latest HOLL (High Oleic, Low Linolenic) variety to be brought to commercialisation. This variety has replaced sector stalwart V3160L, and is a step up in performance, giving an increase in yield, along with improved autumn vigour and disease resistance. Phoma resistance is still average, as with most HOLL varieties, but V3670L now includes pod shatter resistance to help protect the added value seed it provides.</p>			<table border="1"> <tr> <td>Light leaf spot</td> <td>6</td> <td>UK Gross output</td> <td>5.52</td> </tr> <tr> <td>Stem canker</td> <td>6</td> <td>(based on data</td> <td>t/ha</td> </tr> <tr> <td>Resistance to lodging</td> <td>8</td> <td>from 2 trials sites)</td> <td></td> </tr> <tr> <td>Stem stiffness</td> <td>7</td> <td>UK Seed yield</td> <td>5.00</td> </tr> <tr> <td>Maturity</td> <td>4 (5) 6</td> <td>(based on data</td> <td>t/ha</td> </tr> <tr> <td></td> <td></td> <td>from 4 trials sites)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Oil Content</td> <td>46.66</td> </tr> <tr> <td></td> <td></td> <td>(based on data</td> <td></td> </tr> <tr> <td></td> <td></td> <td>from 2 UK trials sites)</td> <td></td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>5</td> </tr> </table>	Light leaf spot	6	UK Gross output	5.52	Stem canker	6	(based on data	t/ha	Resistance to lodging	8	from 2 trials sites)		Stem stiffness	7	UK Seed yield	5.00	Maturity	4 (5) 6	(based on data	t/ha			from 4 trials sites)				Oil Content	46.66			(based on data				from 2 UK trials sites)				Plant height	5
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Aurelia	UK Agent	Limagrain UK Ltd	Agronomics																								
<p>ADM's view - Aurelia is proving to be extremely consistent year after year, remaining within a few percent of the highest yielding varieties on the new AHDB RL. This consistent performance gives growers security in a variety that shows high yields, even in difficult seasons. Although Aurelia is suited to all regions, it particularly excels in the north. High yields are supported by a great package of genetic traits, including TuYV resistance, pod shatter resistance, and the RLM7 gene.</p>			<table border="1"> <tr> <td>Light leaf spot</td> <td>7</td> <td>E/W Gross output</td> <td>105</td> </tr> <tr> <td>Stem canker</td> <td>6</td> <td>E/W Seed yield</td> <td>105</td> </tr> <tr> <td>Resistance to lodging</td> <td>8</td> <td>N Gross output</td> <td>104</td> </tr> <tr> <td>Stem stiffness</td> <td>8</td> <td>N Seed yield</td> <td>105</td> </tr> <tr> <td>Maturity</td> <td>4 (5) 6</td> <td>Oil content</td> <td>44.9</td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>145</td> </tr> </table>	Light leaf spot	7	E/W Gross output	105	Stem canker	6	E/W Seed yield	105	Resistance to lodging	8	N Gross output	104	Stem stiffness	8	N Seed yield	105	Maturity	4 (5) 6	Oil content	44.9			Plant height	145
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Lakritz	UK Agent	DSV UK Ltd	Agronomics												
<p>ADM's view - Lakritz not only has the highest gross output on the AHDB Descriptive List for 2023/24, the variety's UK seed yield is an impressive 3% higher than the next nearest competitor and it boasts a high oil content. Agronomically Lakritz is an early-flowering, medium-maturing variety with a good short stem. This is currently ADM's go-to variety for anyone with an opportunity to drill spring rapeseed.</p>			<table border="1"> <tr> <td>Shortness of stem</td> <td>7</td> <td>UK Gross output</td> <td>[103]</td> </tr> <tr> <td>Earliness of flowering</td> <td>[7]</td> <td>UK Seed yield</td> <td>[104]</td> </tr> <tr> <td>Earliness of maturity</td> <td>5</td> <td>Oil Content</td> <td>[44.0]</td> </tr> </table>	Shortness of stem	7	UK Gross output	[103]	Earliness of flowering	[7]	UK Seed yield	[104]	Earliness of maturity	5	Oil Content	[44.0]
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<p>Spring Hybrid</p> 															

Winter & Spring Oats

Mascani	UK Agent Parentage	Senova Ltd CWO 02/18/05 x 87-42CN1/2/2	Agronomics																
<p>ADM's view - Mascani remains the most in-demand winter oat variety among end-users. Although yield is slightly off the pace of newer varieties, quality is still the most important aspect. The variety's good specific weight and very high kernel content leads to high hullability. Mascani's average disease scores are still better than most other varieties on the RL, so it will remain a popular choice on farm.</p>			<table border="0"> <tr> <td>Mildew</td> <td>6</td> <td>UK yield</td> <td>95</td> </tr> <tr> <td>Crown rust</td> <td>5</td> <td>Kernel content</td> <td>75.7</td> </tr> <tr> <td>Resistance to lodging</td> <td>6</td> <td>Specific weight</td> <td>53.5</td> </tr> <tr> <td>Maturity</td> <td>-2 -1 0 1 2 3</td> <td>Straw height</td> <td>122</td> </tr> </table>	Mildew	6	UK yield	95	Crown rust	5	Kernel content	75.7	Resistance to lodging	6	Specific weight	53.5	Maturity	-2 -1 0 1 2 3	Straw height	122
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WPB Isabel	UK Agent Parentage	KWS UK Ltd (LW 03W0383-06 x Husky)	Agronomics																
<p>ADM's view - WPB Isabel has cemented itself as a firm favourite on farm, with consistently high yields and good lodging resistance. With the highest specific weight of all AHDB-recommended husked spring oats for 2023/24, WPB Isabel's grain quality draws demand from end users. Market share is expected to continue to grow this season, bringing both agronomic and quality improvements from its KWS predecessor WPB Elyann.</p>			<table border="0"> <tr> <td>Mildew</td> <td>5</td> <td>UK yield</td> <td>101</td> </tr> <tr> <td>Crown rust</td> <td>5</td> <td>Kernel content</td> <td>73.0</td> </tr> <tr> <td>Resistance to lodging</td> <td>7</td> <td>Specific weight</td> <td>53.5</td> </tr> <tr> <td>Maturity</td> <td>-2 -1 0 1 2 3</td> <td>Straw height</td> <td>109</td> </tr> </table>	Mildew	5	UK yield	101	Crown rust	5	Kernel content	73.0	Resistance to lodging	7	Specific weight	53.5	Maturity	-2 -1 0 1 2 3	Straw height	109
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Winter & Spring Beans

Vespa	UK Agent Parentage	Senova Ltd	Agronomics																
<p>ADM's view - Vespa is once again the highest yielding winter bean variety on the PGRO Descriptive List and is supported by a good all-round agronomic package, particularly boasting good standing power. The quality has so far been accepted for all end uses, and its larger seed size compared with Tundra is preferred for the splitting market in Egypt, where beans are used for Falafel, a deep-fried fritter. We expect Vespa demand to grow once again this coming season.</p>			<table border="0"> <tr> <td>Downy mildew</td> <td>5</td> <td>Yield</td> <td>111</td> </tr> <tr> <td>Rust</td> <td>5</td> <td>Protein content</td> <td>25.7</td> </tr> <tr> <td>Earliness of maturity</td> <td>5</td> <td>Straw length</td> <td>115</td> </tr> <tr> <td>Standing ability at harvest</td> <td>8</td> <td></td> <td></td> </tr> </table>	Downy mildew	5	Yield	111	Rust	5	Protein content	25.7	Earliness of maturity	5	Straw length	115	Standing ability at harvest	8		
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Tundra	UK Agent Parentage	Limagrain UK Ltd	Agronomics																
<p>ADM's view - Tundra is a universally accepted variety and market leader in the winter bean category. Tundra has smoother skin than some of the more traditional winter beans, so it has greater acceptance as a whole bean in the North Africa market. Historically, the larger, flatter, wrinkled winter beans have only been used for splitting, but Tundra can often fit both markets. Some newer rivals are entering the market with additional yield potential, but Tundra is still likely to maintain a significant sown area again this autumn.</p>			<table border="0"> <tr> <td>Downy mildew</td> <td>5</td> <td>Yield</td> <td>94</td> </tr> <tr> <td>Rust</td> <td>5</td> <td>Protein content</td> <td>25.7</td> </tr> <tr> <td>Earliness of maturity</td> <td>6</td> <td>Straw length</td> <td>105</td> </tr> <tr> <td>Standing ability at harvest</td> <td>8</td> <td></td> <td></td> </tr> </table>	Downy mildew	5	Yield	94	Rust	5	Protein content	25.7	Earliness of maturity	6	Straw length	105	Standing ability at harvest	8		
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LG Viper	UK Agent Parentage	Limagrain UK Ltd	Agronomics																
<p>ADM's view - With a score of 9 for standing ability, LG Viper is the stiffest variety on the PGRO Descriptive List for 2023/24. LG Viper also has the best score for rust by some margin and excellent resistance to downy mildew. Although slightly behind its stablemates for yield, LG Viper offers a strong alternative for spring bean growers with possibly the strongest agronomic package.</p>			<table border="0"> <tr> <td>Downy mildew</td> <td>6</td> <td>Yield</td> <td>100</td> </tr> <tr> <td>Rust</td> <td>7</td> <td>Protein content</td> <td>28.4</td> </tr> <tr> <td>Earliness of maturity</td> <td>5</td> <td>Straw length</td> <td>99</td> </tr> <tr> <td>Standing ability at harvest</td> <td>9</td> <td></td> <td></td> </tr> </table>	Downy mildew	6	Yield	100	Rust	7	Protein content	28.4	Earliness of maturity	5	Straw length	99	Standing ability at harvest	9		
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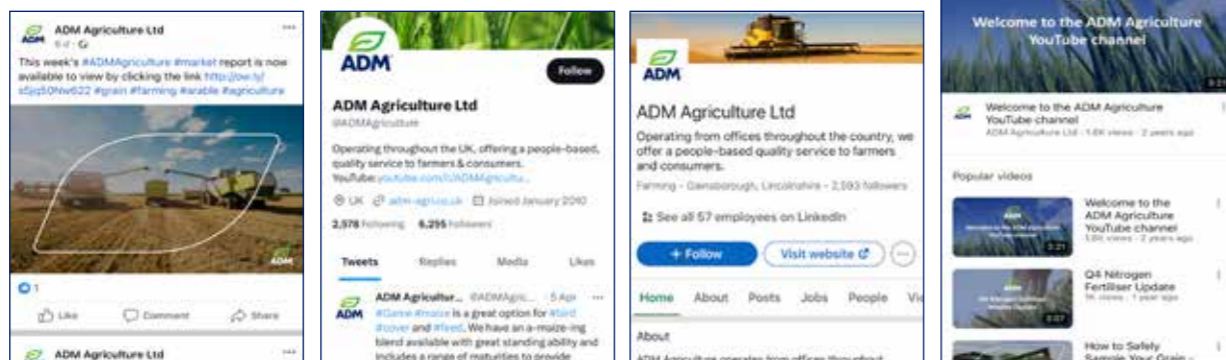
Lynx	UK Agent Parentage	LS Plant Breeding Ltd	Agronomics																
<p>ADM's view - Seven years after being listed, Lynx sits as the second highest yielding spring bean with UK yields at 107% of control on this year's PGRO Descriptive list. Lynx has set the benchmark incredibly high for any new varieties coming forward, and we expect the variety to continue as the market leader in this sector for some time to come. High yields alongside excellent downy mildew resistance and good standing ability make this variety an incredibly attractive all-round package for any spring bean grower.</p>			<table border="0"> <tr> <td>Downy mildew</td> <td>7</td> <td>Yield</td> <td>107</td> </tr> <tr> <td>Rust</td> <td>4</td> <td>Protein content</td> <td>28.1</td> </tr> <tr> <td>Earliness of maturity</td> <td>6</td> <td>Straw length</td> <td>108</td> </tr> <tr> <td>Standing ability at harvest</td> <td>8</td> <td></td> <td></td> </tr> </table>	Downy mildew	7	Yield	107	Rust	4	Protein content	28.1	Earliness of maturity	6	Straw length	108	Standing ability at harvest	8		
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Marrowfats are incredibly important to ADM and the vertical integration through the Long Sutton processing site. Over decades, marrowfat peas have been the preserve of the finest chip-shop peas in the UK as well as providing an essential export market to overseas customers for snack foods such as wasabi peas in Japan. ADM provides a very easy three-step process to enable you to grow one of the best gross margin break crops available.

Step 1 – ADM delivers your seed. We'll also advise what seed treatment to use to make sure you have minimal losses and the crops gets off to as strong start as possible.

Step 2 – The growing season. We'll provide you and your agronomist with all the technical support you need to grow the best crop possible. We also have the VIPea group which meets bi-annually and gives our growers the opportunity to engage with us and identify common areas of concern with the growing crop or future crops.

Step 3 – Storage and delivery. You store the peas on farm until we are ready to move them into Long Sutton. We'll sample and grade your peas before they move to put them on the most suitable production run. Again, if you have any concerns with longer-term storage of the peas our expert team are on hand to help guide you through.

So why not give peas a chance and become part of our exclusive VIPea grower group?

Kabuki UK Agent Limagrain UK Ltd

ADM's view - Kabuki has been the backbone of the marrowfat sector for decades providing the best end user qualities and most marketing flexibility. Marrowfat peas are the jewel in the crown for combinable pea growers being the most valuable of the pulse commodities due to appearance of the final product being vital to the end consumer. All marrowfat peas are supplied against our market-leading buyback contracts which give growers the assurance they have the best outlet lined up for their produce.



Marrowfat

LG Adder <small>UK Agent Limagrain UK Ltd</small>		Agronomics	
<i>Variety data from a different trial set so cannot be directly compared</i>			
ADM's view - LG Adder is a major step forward in marrowfat plant breeding, reaching new levels of resistance for downy mildew. It features reliable standing ability through to harvest.	Pea wilt	Resistant	Straw length 6
	Downy mildew	9	
	Powdery mildew	Resistant	
	Earliness of maturity	5	
	Standing ability at harvest	7	

Marrowfat

Manager <small>UK Agent KWS UK Ltd</small>		Agronomics	
ADM's view - Manager is a yellow pea variety that has stood the test of time. Whilst Manager is a few percent off being the highest yielding yellow, it provides the best mildew resistance in the group, stands well and is early to harvest, making it an ideal start point for growers new to peas.	Pea wilt	Resistant	Yield 108
	Downy mildew	7	Protein content 22.8
	Powdery mildew	Moderate resistance	Straw length 83
	Earliness of maturity	6	
	Standing ability at harvest	7	

Yellow

Kameleon <small>UK Agent Senova Ltd</small>		Agronomics	
ADM's view - Kameleon is the highest yielding yellow pea currently available. A large thousand seed weight, early harvest and good standing ability make it a very good all-round option.	Pea wilt	Resistant	Yield 114
	Downy mildew	5	Protein content 21.8
	Powdery mildew	Susceptible	Straw length 76
	Earliness of maturity	6	
	Standing ability at harvest	7	

Yellow

Daytona <small>UK Agent Agrii</small>		Agronomics	
ADM's view - Daytona has been the stalwart of the blue pea industry now for a considerable time. To get the best premium, blue peas need to hold their colour and provide the buyer with the deepest green/blue appearance as possible. This is a trait we refer to as colour retention, and Daytona has had the most reliable colour retention for a considerable time.	Pea wilt	Resistant	Yield 98
	Downy mildew	7	Protein content 22.1
	Powdery mildew	Susceptible	Straw length 78
	Earliness of maturity	6	
	Standing ability at harvest	7	

Blue

Butterfly <small>UK Agent LS Plant Breeding Ltd</small>		Agronomics	
ADM's view - Butterfly is a very new blue pea which we are looking to develop and learn more about as we go forward. High yields, early harvest and a decent seed size are all good attributes to have and we'll continue to progress Butterfly through the multiplication stages.	Pea wilt	Resistant	Yield 109
	Downy mildew	6	Protein content 21.1
	Powdery mildew	Susceptible	Straw length 83
	Earliness of maturity	7	
	Standing ability at harvest	7	

Blue

Carrington <small>UK Agent LS Plant Breeding Ltd</small>		Agronomics	
ADM's view - Carrington is the highest yielding blue pea with exceptional mildew resistance. Although relatively new, its performance on farm so far has been great so for any grower of older varieties looking to move on to higher yielding alternatives, Carrington looks a good step to take.	Pea wilt	Resistant	Yield 115
	Downy mildew	8	Protein content 21.4
	Powdery mildew	Susceptible	Straw length 86
	Earliness of maturity	5	
	Standing ability at harvest	7	

Blue

Seed treatment (Active ingredient(s))	Protects against												
	Approved for use in	Microdochium seedling blight	Fusarium seedling blights	Septoria seedling blight	Loose smut	Bunt	Leaf stripe	Covered smut	Net blotch	Take all	Wheat bulb fly	Wireworm	Growth promoting benefits
Prepper (Fludioxonil)	Winter and spring: wheat, barley, oats, rye and triticale	Wheat Barley	Wheat Barley	Wheat		Wheat	Barley	Barley					
Rancona i-MIX (Ipconazole, imazalil)	Winter and spring: wheat and barley	Wheat Barley	Wheat Barley		Barley	Wheat	Barley						
Fountain (Fludioxonil, tebuconazole)	Winter: wheat, barley, oats, rye and triticale	Wheat Barley	Wheat Barley		Wheat Barley	Wheat		Barley	Barley				
Vibrance Duo (Fludioxonil Sedaxane)	Winter and spring: wheat and barley. Winter: triticale and rye Spring: oats	Wheat Barley	Wheat	Wheat	Wheat	Wheat	Barley	Barley					✓
Latitude (Silthiofam)	Winter and spring wheat and winter barley								✓				
Signal 300ES (Cypermethrin)	Wheat and barley that is sown before Jan 31st									✓	✓		
NUELLO iN (Bacterial Endophyte)	All crops												✓
Exseed (Rhizobium bacteria)	Pulses												✓

Tick = Label recommendation. Control may only be partial, please refer to product label.

All of our base fungicidal seed treatments offer a wide range of protection against seed and soil-borne diseases.

Prepper ADM's wheat fungicidal seed treatment of choice.

Rancona i-MIX and **Fountain** are our barley fungicidal seed treatments of choice.

Vibrance Duo has shown to have a positive effect on root growth, generating an average of 30% increased root mass over prothioconazole.

Latitude is the only chemical option to help reduce take-all in second and successive cereal crops.

Signal 300ES is the only insecticidal seed treatment for control of wireworm and wheat bulb fly.

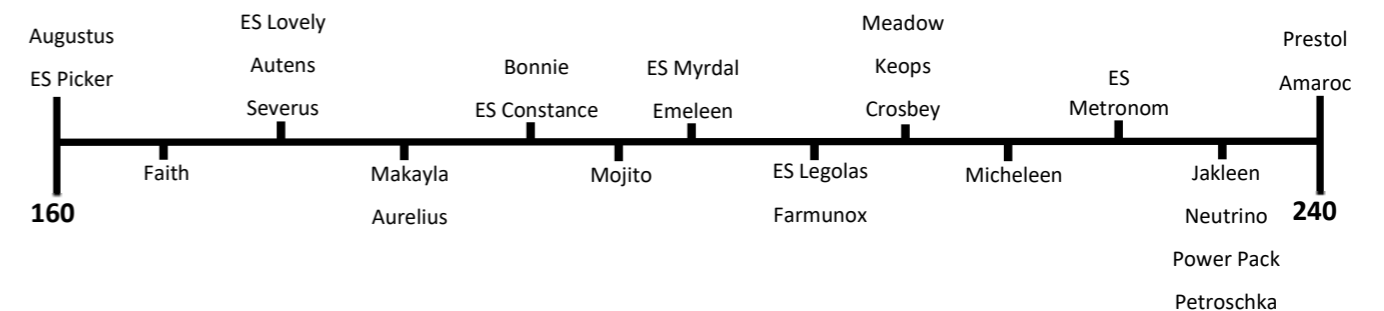
NUELLO iN is an endophytic bacteria which enables all crop species to fix atmospheric nitrogen and has a growth promoting effect throughout the plants life, particularly in periods of stress.

Exseed contains Rhizobium to help increase natural biological fixation of nitrogen in pulse crops.

Maize is a great option for forage production, as a feedstock for AD plants and to grow for grain. It is very high in energy and starch which means it is perfect for AD plants and livestock feed.

Heat units and maturity

The FAO number of a maize variety determines how many heat units will be required to reach the plant's optimum level ready for harvesting.



When deciding what maturity to go for it is important to think about the end use, weather, location and workload.

Weather

If the maize is late to mature, the land may be hard to work on if the weather is bad.

Location

Around the UK, the heat units vary. For instance, there are fewer heat units in the north so a variety will take longer to mature than if it was planted in the south.

Workload

It is important if a lot of maize is going to be planted to spread the harvesting window. This can be achieved by using a range of different maturity varieties.

Drilling

The soil should be 8°C and rising. If maize is drilled too early and the temperature of the soil is not warm enough, crop establishment and germination will be affected.

ADM has a range of cover cropping options available, as both straights and ready-made mixes. We can also offer bespoke mixes in order to suit your individual cropping requirements.

Primary characteristics

Secondary characteristics

This table is a guide only; local conditions, weather and crop rotations will affect performance.

Species	Latin Name	Type	Sowing Rate per ha	Sowing Depth	Sowing Period	Overwinter Use	Nitrogen Fix	Leaching Prevention	Organic Matter	Soil Structure	Biofumigant	Allolopathic	Nematode Control	Weed Control
MUSTARD														
Brown	Brassica juncea	Brassica	5kg	0.5-1cm	Apr-Sept	YES								
White	Sinapis alba	Brassica	15kg	0.5-1cm	Apr-Sept	NO								
VETCH														
Common	Vicia sativa	Legume	50kg	1-2cm	Mar-Oct	YES								
Purple	Vicia atropurpurea	Legume	30kg	1-2cm	Apr-Sept	NO								
OIL RADISH														
Classic	Raphanus sativus	Brassica	10-25kg	1-2cm	Apr-Sept	YES								
Tillage	Raphanus sativus	Brassica	10-25kg	1-2cm	Apr-Aug	YES								
Type 1 and 2	Raphanus sativus	Brassica	10-25kg	1-2cm	Apr-Sept	YES								
CEREALS														
Black Oats	Avena strigosa	Cereal	50kg	1-2cm	Aug-Oct	NO								
Rye	Secale cereale	Cereal	50kg	1-2cm	Aug-Oct	YES								
CLOVER														
Berseem	Trifolium alexandrinum	Legume	15kg	1cm	Apr-Sept	NO								
Crimson	Trifolium incarnatum	Legume	15kg	1cm	Apr-Sept	YES								
Red	Trifolium pratense	Legume	15kg	0.5-1cm	Apr-Sept	YES								
White	Trifolium repens	Legume	10kg	0.5-1cm	Apr-Sept	YES								
OTHER SPECIES														
Buckwheat	Fagopyrum esc. / lat.	Polygonaceae	50kg	2-3cm	May-Aug	NO								
Linseed	Linum usitatissimum	Linum	50kg	2-3cm	Apr-Sept	NO								
Lucerne	Medicago sativa	Legume	20kg	1-2cm	Apr-Sept	YES								
Phacelia	Phacelia tanacetifolia	Boraginaceae	10kg	0.5-1cm	Apr-Sept	NO								
Sunflower	Helianthus annuus	Asteraceae	12.5kg	1-2cm	Apr-Jun	NO								
Westerwolds	Lolium westerwoldicum	Grass	35kg	0.5-1cm	Apr-Sept	YES								
MIXTURES														
Sprinter		Mixture	25-35kg	1-2cm	Aug-Oct	NO								
Grabber		Mixture	35-50kg	1-2cm	Aug-Oct	YES								
Summer Legume		Mixture	15-20kg	1-2cm	Apr-Aug	NO								
Winter N-Fixer		Mixture	15-20kg	1-2cm	Aug-Oct	YES								
Summer Thrive		Mixture	20-25kg	1-2cm	Aug-Sept	NO								
Winter Revivor		Mixture	20-25kg	1-2cm	Aug-Oct	YES								

GRABBER	Sowing rate: 35-50kg/ha
<ul style="list-style-type: none"> Low cost Winter hardy Fixes and catches nitrogen 	80% Winter Rye 20% Winter Vetch

SPRINTER	Sowing rate: 25-35kg/ha
<ul style="list-style-type: none"> Short term, very quick growing Fixes and catches nitrogen Winter kill likely 	70% Black Oats 30% Spring Vetch

SUMMER LEGUME	Sowing rate: 15-20kg/ha
<ul style="list-style-type: none"> Susceptible to frosts Sequesters carbon and replenishes lost nutrients 	50% Spring Vetch 30% Purple Vetch 20% Berseem Clover

WINTER N-FIXER	Sowing rate: 15-20kg/ha
<ul style="list-style-type: none"> Rapid establishment Dense ground cover through the winter Tolerant of poor soils Fixes nitrogen in autumn and spring 	70% Winter Vetch 20% Crimson Clover 10% Berseem Clover

SUMMER THRIVE	Sowing rate: 20-25kg/ha
<ul style="list-style-type: none"> Produces high organic matter Range of rooting depths and types Flowering species provide essential food sources for pollinators 	35% Black Oats 27% Spring Vetch 15% Buckwheat 10% Berseem Clover 10% Linseed 3% Phacelia

WINTER REVIVOR	Sowing rate: 20-25kg/ha
<ul style="list-style-type: none"> Range of frost tolerant species Different root depth and types Fixes and catches nitrogen 	50% Rye 25% Winter Vetch 10% White Mustard 5% Brown Mustard 5% Crimson Clover 2.5% Oil Radish 2.5% Tillage Radish

Grass seed

We aim to offer the best quality mixtures at the most competitive prices across our grass portfolio. Whether it is lawn and amenity or hay and silage, ADM can cater for any situation.

A few of our favourites:

Economy Paddock - Quick to establish, suitable for a range of soil types and excellent value for money.

Italian Ryegrass Blend - A versatile short term mixture with up to two years of intensive cutting and high yields.

Permanent Pasture (with or without clover) - Suitable for grazing or cutting. It has early spring growth, will tolerate hard sheep grazing and is a good palatable mix.

Stewardship scheme mixes

The aim of the countryside stewardship scheme is to incentivise farmers to look after and improve the environment which they can do by growing mixes that provide habitats and food sources for insects, birds etc. as well as mixes that improve soil structure and water infiltration.

ADM has a great selection of Countryside Stewardship mixes designed to keep things simple, with products tailored to the various scheme requirements.

For further information visit- www.gov.uk/countrysidestewardship

ADM Agriculture Hemswell

Grain trading office that sources rapeseed and milling wheat from UK farmers for ADM's processing facilities and supplies wheat, malting barley, feed barley, cereals and pulses to UK-based customers, alongside export markets.

Products and services include:

- All combinable crops
- Fertilisers
- Seeds
- Human consumption pulses
- Laboratory

3,000,000t

Combined crops purchased

6,000

Supply partner farmers

-  Certifications:
- SEDEX Members Ethical Trade Audit (SMETA)
 - TASCC
 - FIAS
 - EFISC GTP
 - BRC
 - ESTA
 - Soil Association Organic ISO 14001:2015

ADM Agriculture Watford

Destination marketing office operating via 19 ports throughout the UK and northern France. Supplying feedstuff to UK compounders and farmers, achieved through ADM's global reach and well established supply chain, giving access to oil processing, grains and cereal by-products with global origination.

2,000,000t

Non-grain animal feed supply

450,000t

UK ports storage

ADM Agriculture Great Yarmouth

Port facility located on the east coast of England, handling grains and oilseeds.

20,000t

Total ports grain storage capacity

ADM Agriculture Long Sutton

A major UK agricultural seed wholesale business and processors of seed, human consumption pulses and dried food ingredients. Services include:

- Pulse processing
- Seed processing
- Pulse trading
- Storage
- Toll processing
- Laboratory

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About ADM:

At ADM, we unlock the power of nature to provide access to nutrition worldwide. With industry-advancing innovations, a complete portfolio of ingredients and solutions to meet any taste, and a commitment to sustainability, we give customers an edge in solving the nutritional challenges of today and tomorrow. We're a global leader in human and animal nutrition and the world's premier agricultural origination and processing company. Our breadth, depth, insights, facilities and logistical expertise give us unparalleled capabilities to meet needs for food, beverages, health and wellness, and more. From the seed of the idea to the outcome of the solution, we enrich the quality of life the world over. Learn more at www.adm.com.

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