



# Seed Varieties Information 2022/23

# Introduction

**Well, what a year once again! Brexit border delays, haulage shortages and a late harvest have all raised challenges for the certified seed industry. The 'just in time' supply chain is clearly now unsustainable, making detailed planning a necessity for 2022.**

The unseasonably late harvest, especially in the east where a large proportion of our seed crops are grown, caused an unavoidable supply delay for autumn 2021 sowings. This put more pressure on seed processors who were trying to clean cereal seed for early September sowings, compounded by limited haulage availability which further slowed the turnaround compared to previous years.

Additional checks at our borders on post-Brexit seed imports from the continent had severe implications for growers waiting to sow new hybrid OSR varieties that had to be produced in the EU. As such, the quantity of OSR seed supplied from overyeared stock will increase, enabling it to be treated and dispatched to farm in early July. However, this is likely to take new

varieties an additional year to reach UK growers.

Looking forward, preparation is key. Confirming varieties, treatments and quantities as early as possible will ensure growers secure what they want and need. This enables us, as the supplier, to be able to plan the varieties and tonnages being processed through our plant, ensuring the correctly treated stock is available for transport as soon as possible.

Crops have generally established well and there are some exciting new varieties across all species. We are better briefed than ever, given the continually evolving disease strains/races, especially of yellow rust and Septoria tritici, which this guide focuses on heavily. This catalogue highlights varieties which we believe offer UK growers something new and different and, above all, are reliable choices for commercial production.

I wish you a very prosperous harvest 2022, and I hope good forward prices are supported by strong yields, so that we can maximise farm incomes over this period of change we are seeing in UK agriculture.

**James Barlow, head of seed**

## Contents

Agronomic data taken from the 22/23 AHDB Recommended List (RL) for wheat, barley, oilseed rape and oats. Winter bean data comes from the PGRO Descriptive List 2022.

Data for varieties not in the above lists are supplied by breeders.

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# Meet the team

## Our Team

### **JAMES BARLOW** *Head of seed*

James leads all aspects of the seed department and has overall responsibility for the team. James is a big advocate of certified seed and sits on the AIC Seeds Committee to promote responsible and effective practices for all seed-related products with growers.



### **DAVE COOPER** *Wholesale seed manager*

Dave looks after wholesale seed sales and leads seed production through our processing facility at Long Sutton. Dave is also a certified crop inspector and likes nothing more than to spend hot summer days walking through our wheat and barley crops ensuring everything is as it should be.



### **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.



### **BETH MOSES** *Seed trader*

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.



### **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** *Administration assistant*

Rosie joined ADM in autumn 2021 as a seed and malting barley administrative assistant. When Rosie isn't keeping the seed team organized she is inputting and overseeing sales contracts, answering small seed enquiries and dealing with admin-related queries.



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From reading this publication, you can claim:

2 NRoSO points with reference **NO470634f** and  
2 BASIS points with **CP/117547/2122/g**  
up until 31.05.22, then  
**CP/119773/2223/g** thereafter.

# Winter Wheat - Group 1

The 2021 growing season has highlighted some significant changes within wheat varieties and once again challenges growers' perceptions of their most valued trait. We have seen most varieties perform below the five-year mean against Septoria tritici, whilst yellow rust remains fairly similar to last year, with no new varieties being raised as a concern. Across the Recommended List we have seen five varieties dropped and 10 added, so yet again the list gets bigger. The distinct lack of new quality wheats continues for a further year, so Group 1 growers need to make existing varieties stretch a few more years yet. The Group 3 sector has increased again, yet its market share has significantly reduced year-on-year. There are some exciting new feed wheats in Champion and KWS Dawsum, both offering something very different from each other for feed wheat growers.

 <p>Breeder KWS UK Ltd Parentage KWS Quartz x Hereford</p>	Agronomics																																										
<p><b>ADM's view</b> - 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. Untreated yields are very high, reflecting its good all-round disease resistance.</p>	<table> <tbody> <tr> <td>Mildew</td><td>7</td><td>███████</td></tr> <tr> <td>Yellow rust</td><td>4</td><td>████</td></tr> <tr> <td>Brown rust</td><td>6</td><td>██████</td></tr> <tr> <td>Septoria tritici</td><td>6.1</td><td>███████</td></tr> <tr> <td>Fusarium</td><td>6</td><td>██████</td></tr> <tr> <td>Resistance to lodging with PGR</td><td>8</td><td>████████</td></tr> <tr> <td>Maturity</td><td>-2 -1 0 1 2 3</td><td>███████</td></tr> </tbody> </table>	Mildew	7	███████	Yellow rust	4	████	Brown rust	6	██████	Septoria tritici	6.1	███████	Fusarium	6	██████	Resistance to lodging with PGR	8	████████	Maturity	-2 -1 0 1 2 3	███████	<table> <tbody> <tr> <td>United Kingdom</td><td>98</td></tr> <tr> <td>East region</td><td>98</td></tr> <tr> <td>West region</td><td>99</td></tr> <tr> <td>North region</td><td>98</td></tr> <tr> <td>Untreated yield</td><td>76</td></tr> <tr> <td>First cereal</td><td>98</td></tr> <tr> <td>Second plus</td><td>99</td></tr> <tr> <td>Light soils</td><td>97</td></tr> <tr> <td>Heavy soils</td><td>99</td></tr> <tr> <td>Specific weight</td><td>77.5</td></tr> </tbody> </table>	United Kingdom	98	East region	98	West region	99	North region	98	Untreated yield	76	First cereal	98	Second plus	99	Light soils	97	Heavy soils	99	Specific weight	77.5
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 <p>Breeder RAGT Seeds UK Parentage C4148 x Hurricane</p>	<p><b>ADM's view</b> - RGT 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. RGT Skyfall is best suited to end of September/early October sowings onwards, with an extremely wide sowing window courtesy of its low vernalisation requirements. RGT Skyfall can successfully be sown through until February and into early March, providing flexibility in adverse conditions. The variety is very susceptible to yellow rust, so a thorough preventative approach should be used with fungicides.</p>	<p><b>Agronomics</b></p>    <table> <tbody> <tr> <td>Mildew</td><td>6</td><td>██████</td></tr> <tr> <td>Yellow rust</td><td>3</td><td>██</td></tr> <tr> <td>Brown rust</td><td>8</td><td>██████</td></tr> <tr> <td>Septoria tritici</td><td>5.3</td><td>██████</td></tr> <tr> <td>Fusarium</td><td>7</td><td>██████</td></tr> <tr> <td>Resistance to lodging with PGR</td><td>8</td><td>██████</td></tr> <tr> <td>Maturity</td><td>-2 -1 0 1 2 3</td><td>██████</td></tr> </tbody> </table>	Mildew	6	██████	Yellow rust	3	██	Brown rust	8	██████	Septoria tritici	5.3	██████	Fusarium	7	██████	Resistance to lodging with PGR	8	██████	Maturity	-2 -1 0 1 2 3	██████																				
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 <p>Breeder Limagrain UK Ltd Parentage Cordiale x Gulliver</p>	<p><b>ADM's view</b> - 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 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.</p>	<p><b>Agronomics</b></p>  <table> <tbody> <tr> <td>Mildew</td><td>7</td><td>██████</td></tr> <tr> <td>Yellow rust</td><td>9</td><td>████████</td></tr> <tr> <td>Brown rust</td><td>3</td><td>██</td></tr> <tr> <td>Septoria tritici</td><td>6.2</td><td>██████</td></tr> <tr> <td>Fusarium</td><td>7</td><td>██████</td></tr> <tr> <td>Resistance to lodging with PGR</td><td>7</td><td>██████</td></tr> <tr> <td>Maturity</td><td>-2 -1 0 1 2 3</td><td>██████</td></tr> </tbody> </table>	Mildew	7	██████	Yellow rust	9	████████	Brown rust	3	██	Septoria tritici	6.2	██████	Fusarium	7	██████	Resistance to lodging with PGR	7	██████	Maturity	-2 -1 0 1 2 3	██████																				
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# Winter Wheat - Group 2



## ADM Field to Flour Growers Club Linking the Supply Chain

Creating a closer relationship between the farmer, miller and customer

As a company we are committed to meeting our environmental obligations, while pursuing ways to continually improve our efforts in both protecting the environment and enhancing environmental sustainability.



ADM Milling Ltd | 01277 262525 | 4flour.co.uk | ukmillinginfo@adm.com

ADM Agriculture Ltd | 01427 421200 | adm-agri.co.uk

KWS KWS <b>EXTASE</b>	Breeder	Momont, France/KWS UK Ltd	Agronomics	no till																																								
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<b>ADM's view</b> - KWS Extase now has bragging rights as the most widely sown wheat variety across the country, making up around 15% of the certified seed tonnage for harvest 2022. KWS Extase offers something very different in terms of growth habit, being incredibly vigorous in 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.																																												

LG DETROIT 	Breeder	Limagrain UK Ltd	Agronomics	Midge resistant																																								
Parentage		(Kingdom x KWS Santiago) x Crusoe	<small>***Variety data from a different trial set so cannot be directly compared***</small> <table> <tr> <td>Mildew</td><td>6</td> <td>United Kingdom</td><td>99</td> </tr> <tr> <td>Yellow rust</td><td>8</td> <td>East region</td><td>99</td> </tr> <tr> <td>Brown rust</td><td>5</td> <td>West region</td><td>99</td> </tr> <tr> <td>Septoria tritici</td><td>5.4</td> <td>North region</td><td>93</td> </tr> <tr> <td>Fusarium</td><td>7</td> <td>Untreated yield</td><td>75</td> </tr> <tr> <td>Resistance to lodging with PGR</td><td>8</td> <td>First cereal</td><td>98</td> </tr> <tr> <td>Maturity</td><td>-2 -1 0 (1) 2 3</td> <td>Second plus</td><td>99</td> </tr> <tr> <td></td><td></td><td>Light soils</td><td>97</td> </tr> <tr> <td></td><td></td><td>Heavy soils</td><td>101</td> </tr> <tr> <td></td><td></td><td>Specific weight</td><td>77.6</td> </tr> </table>		Mildew	6	United Kingdom	99	Yellow rust	8	East region	99	Brown rust	5	West region	99	Septoria tritici	5.4	North region	93	Fusarium	7	Untreated yield	75	Resistance to lodging with PGR	8	First cereal	98	Maturity	-2 -1 0 (1) 2 3	Second plus	99			Light soils	97			Heavy soils	101			Specific weight	77.6
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<b>ADM's view</b> - LG Detroit offers a unique opportunity through ADM's closed loop supply network to obtain Group 2 yields with a Group 1 premium. LG Detroit is a Crusoe cross, which gives it exceptional milling characteristics. This is a stiff-strawed variety, well suited to the East and West regions, and is the only quality wheat apart from RGT Skyfall to have OWBM resistance. LG Detroit can successfully be sown from early September onwards, which allows an earlier planting date compared with other quality wheats, but Septoria tritici should be monitored when drilled early.																																												

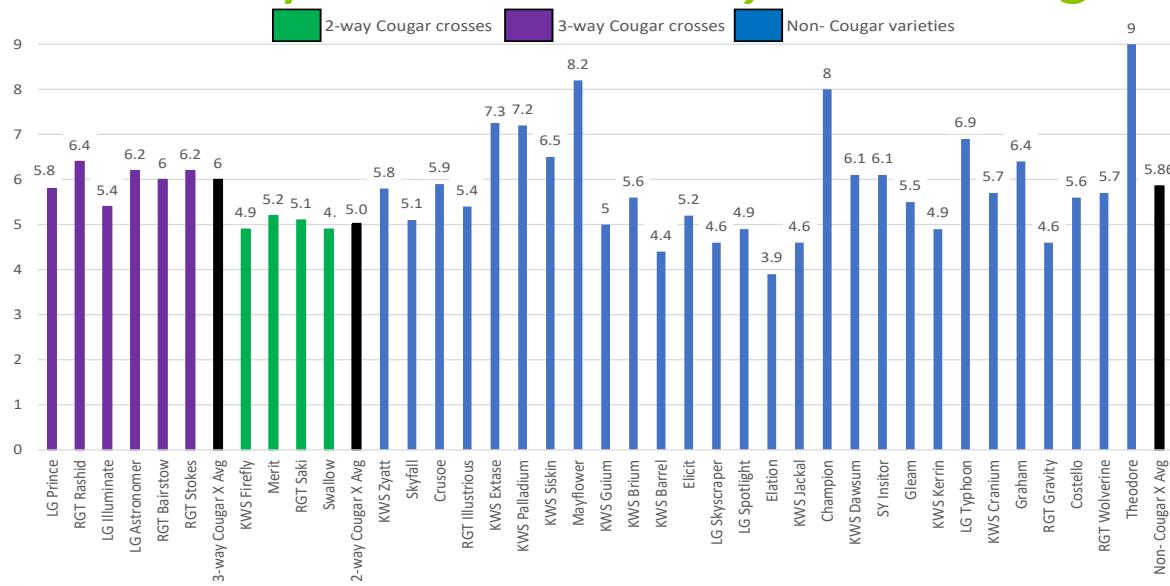
# Winter Wheat - Group 3

	Breeder	RAGT Seeds UK	Agronomics	Midge resistant
	Parentage	Icebreaker / Solo // Cougar		
<b>ADM's view - RGT Rashid</b>	RGT Rashid		<p>Mildew 4</p> <p>Yellow rust 8</p> <p>Brown rust 6</p> <p>Septoria tritici 6.9</p> <p>Fusarium 7</p> <p>Resistance to lodging with PGR 8</p> <p>Maturity -2 -1 0 1 2 (3)</p>	<p>United Kingdom 100</p> <p>East region 102</p> <p>West region 97</p> <p>North region [97]</p> <p>Untreated yield 79</p> <p>First cereal 100</p> <p>Second plus 100</p> <p>Light soils [99]</p> <p>Heavy soils 100</p> <p>Specific weight 76.4</p>

	Breeder	Limagrain UK Ltd	Agronomics	Midge resistant
	Parentage	(Cougar x Leeds) x Britannia		
<b>ADM's view - LG Astronomer</b>	LG Astronomer		<p>Mildew 4</p> <p>Yellow rust 8</p> <p>Brown rust 8</p> <p>Septoria tritici 6.8</p> <p>Fusarium 6</p> <p>Resistance to lodging with PGR 9</p> <p>Maturity -2 -1 0 (1) 2 3</p>	<p>United Kingdom 100</p> <p>East region 100</p> <p>West region 99</p> <p>North region 97</p> <p>Untreated yield 86</p> <p>First cereal 99</p> <p>Second plus 100</p> <p>Light soils 100</p> <p>Heavy soils 101</p> <p>Specific weight 77.4</p>

## 2-way vs 3-way Cougar crosses vs non-Cougar varieties

### AHDB Septoria tritici 1 year rating

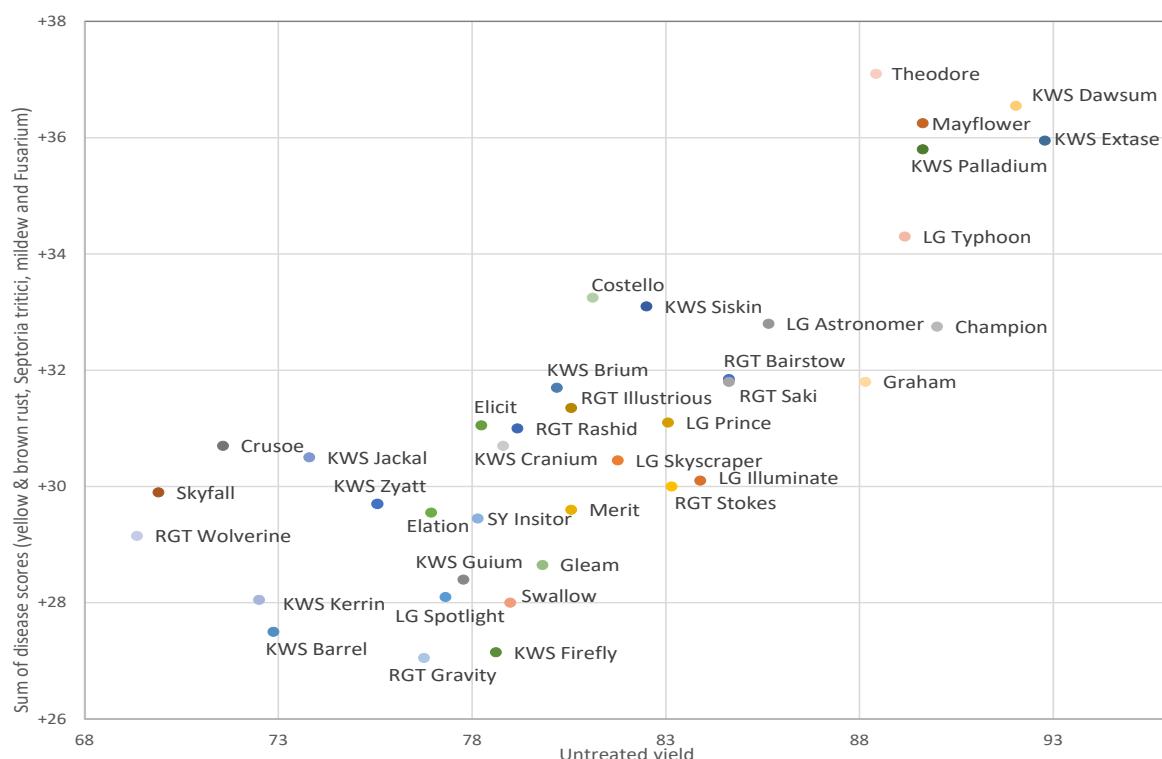


# Winter Wheat - Group 4 Softs

 <p>Breeder RAGT Seeds UK Parentage Revelation / Santiago // Cougar</p>	Agronomics		
	Mildew	6	United Kingdom 103
	Yellow rust	7	East region 103
	Brown rust	6	West region 103
	Septoria tritici	6.4	North region [103]
	Fusarium	6	Untreated yield 85
	Resistance to lodging with PGR	6	First cereal 103
	Maturity	-2 -1 0 1 2 3	Second plus 104
			Light soils [104]
			Heavy soils 104
			Specific weight 75.9

 <p>Breeder Limagrain UK Ltd Parentage (Cassius x NAWW 29) x KWS Santiago</p>	Agronomics		 
	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 82
	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 76.5

## Disease scores vs untreated yield



# Winter Wheat - Group 4 Hards

<p><b>Champion</b></p> <p>Breeder DSV UK Ltd Parentage Reflection x DSV20122</p> <p><b>ADM's view</b> - 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 one of the highest on the Recommended List. 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. The specific weight is lower than some of its direct competitors, and this is a variety with a strong tillering ability, so reducing seed rates below farm standard should be considered for best results.</p>	<p><b>Agronomics</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">✓ no till</th> <th>Midge resistant</th> </tr> </thead> <tbody> <tr> <td>Mildew</td> <td style="text-align: center;">7</td> <td>United Kingdom 106</td> </tr> <tr> <td>Yellow rust</td> <td style="text-align: center;">8</td> <td>East region 107</td> </tr> <tr> <td>Brown rust</td> <td style="text-align: center;">5</td> <td>West region 105</td> </tr> <tr> <td>Septoria tritici</td> <td style="text-align: center;">7.7</td> <td>North region [103]</td> </tr> <tr> <td>Fusarium</td> <td style="text-align: center;">6</td> <td>Untreated yield 90</td> </tr> <tr> <td>Resistance to lodging with PGR</td> <td style="text-align: center;">7</td> <td>First cereal 105</td> </tr> <tr> <td>Maturity</td> <td style="text-align: center;">-2 -1 0 1 2 3</td> <td>Second plus 107</td> </tr> <tr> <td></td> <td></td> <td>Light soils [105]</td> </tr> <tr> <td></td> <td></td> <td>Heavy soils 106</td> </tr> <tr> <td></td> <td></td> <td>Specific weight 74.8</td> </tr> </tbody> </table>		✓ no till	Midge resistant	Mildew	7	United Kingdom 106	Yellow rust	8	East region 107	Brown rust	5	West region 105	Septoria tritici	7.7	North region [103]	Fusarium	6	Untreated yield 90	Resistance to lodging with PGR	7	First cereal 105	Maturity	-2 -1 0 1 2 3	Second plus 107			Light soils [105]			Heavy soils 106			Specific weight 74.8
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<p><b>KWS DAWSUM</b></p> <p>Breeder KWS UK Ltd Parentage KWS Kerrin x Costello</p> <p><b>ADM's view</b> - 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 spec weight (79.4kg/hl) variety behind Costello (80.6kg/hl). 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 drawback is that it has no midge resistance.</p>	<p><b>Agronomics</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">✓ no till</th> <th>Midge resistant</th> </tr> </thead> <tbody> <tr> <td>Mildew</td> <td style="text-align: center;">8</td> <td>United Kingdom 104</td> </tr> <tr> <td>Yellow rust</td> <td style="text-align: center;">9</td> <td>East region 103</td> </tr> <tr> <td>Brown rust</td> <td style="text-align: center;">7</td> <td>West region 106</td> </tr> <tr> <td>Septoria tritici</td> <td style="text-align: center;">6.3</td> <td>North region [106]</td> </tr> <tr> <td>Fusarium</td> <td style="text-align: center;">6</td> <td>Untreated yield 92</td> </tr> <tr> <td>Resistance to lodging with PGR</td> <td style="text-align: center;">7</td> <td>First cereal 105</td> </tr> <tr> <td>Maturity</td> <td style="text-align: center;">-2 -1 0 1 2 3</td> <td>Second plus 104</td> </tr> <tr> <td></td> <td></td> <td>Light soils [105]</td> </tr> <tr> <td></td> <td></td> <td>Heavy soils 104</td> </tr> <tr> <td></td> <td></td> <td>Specific weight 79.4</td> </tr> </tbody> </table>		✓ no till	Midge resistant	Mildew	8	United Kingdom 104	Yellow rust	9	East region 103	Brown rust	7	West region 106	Septoria tritici	6.3	North region [106]	Fusarium	6	Untreated yield 92	Resistance to lodging with PGR	7	First cereal 105	Maturity	-2 -1 0 1 2 3	Second plus 104			Light soils [105]			Heavy soils 104			Specific weight 79.4
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		Specific weight 79.4																																

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ADM Agriculture Ltd

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# Winter Wheat - Group 4 Hards

 <p>Breeder Syngenta Parentage Hereford x AB111-1101</p> <p><b>ADM's view</b> - SY Insitor 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 Insitor 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 these diseases should be monitored, and the variety would benefit from a robust fungicide programme. Positionally SY Insitor is a very strong second wheat, courtesy of its rooting architecture and suits sowing medium/late sowings.</p>	<b>Agronomics</b>		
	Mildew	6	United Kingdom 104
	Yellow rust	5	East region 104
	Brown rust	5	West region 104
	Septoria tritici	6.5	North region 105
	Fusarium	7	Untreated yield 78
	Resistance to lodging with PGR	7	First cereal 104
	Maturity	-2 -1 0 (1) 2 3	Second plus 104
			Light soils 106
			Heavy soils 104
			Specific weight 78.2
 <p>Breeder Syngenta Parentage KWS Kielder x Hereford</p> <p><b>ADM's view</b> - 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, but its yellow rust ratings have seen a gradual decline, so this disease should be monitored in the crop. Gleam still has fantastic market share, second to only KWS Extase, which is testament to its reliability for growers.</p>	<b>Agronomics</b>		
	Mildew	6	United Kingdom 103
	Yellow rust	5	East region 103
	Brown rust	6	West region 103
	Septoria tritici	5.8	North region 103
	Fusarium	6	Untreated yield 80
	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 76.3
 <p>Breeder KWS UK Ltd Parentage KWS Crispin x KWS Kielder</p> <p><b>ADM's view</b> - KWS Cranium is a relative newcomer to the market, with limited seed availability in its first commercial year last season. A KWS Crispin cross, KWS Cranium inherits fantastic late-drilled vigour, which is traced to its grandparent Conqueror. After root crops or maize, KWS Cranium is a default choice for growers. It is 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.</p>	<b>Agronomics</b>		 
	Mildew	6	United Kingdom 102
	Yellow rust	8	East region 102
	Brown rust	4	West region 101
	Septoria tritici	5.9	North region 101
	Fusarium	6	Untreated yield 79
	Resistance to lodging with PGR	8	First cereal 102
	Maturity	-2 -1 0 1 2 (3)	Second plus 102
			Light soils 103
			Heavy soils 100
			Specific weight 75.1
 <p>Breeder Syngenta Parentage Premio x Expert</p> <p><b>ADM's view</b> - 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>	<b>Agronomics</b>		
	Mildew	7	United Kingdom 102
	Yellow rust	7	East region 100
	Brown rust	5	West region 104
	Septoria tritici	6.7	North region 102
	Fusarium	7	Untreated yield 88
	Resistance to lodging with PGR	8	First cereal 102
	Maturity	-2 (-1) 0 1 2 3	Second plus 101
			Light soils 102
			Heavy soils 101
			Specific weight 76.9

# Winter Barley - Malting Varieties

Winter barley proves to be a useful agronomic tool for growers requiring early entry for OSR, and as such, we've seen the planted area for harvest 2022 remain near the five-year average. Variety wise, the line up remains largely unchanged, with one notable exception in KWS Feeris. Up until this point, ADM has largely avoided six-row conventional types due to poor grain quality, but KWS Feeris bucks this trend, and looks set to seriously question if a two-row is now the right way forward for feed growers. KWS Feeris also brings BYDV tolerance into the offering, so growers will be hard pushed to overlook this variety.

Craft Winter barley	Breeder Syngenta	Agronomics	BaYMV resistant			
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.	Parentage SY 208-56 x SY Venture					
<b>End-market suitability</b> - Craft has full approval for brewing from MAGB and is the preferred winter malting barley for most UK maltsters. Craft has so far produced reasonably low nitrogen and bold grain.						
			United Kingdom 95 East region 95 West region 94 North region 96 Untreated yield 78 Light soil yield 96 Heavy soil yield 93 Straw height 88 Nitrogen 1.67 Specific weight 70.1			

## BYDV explained

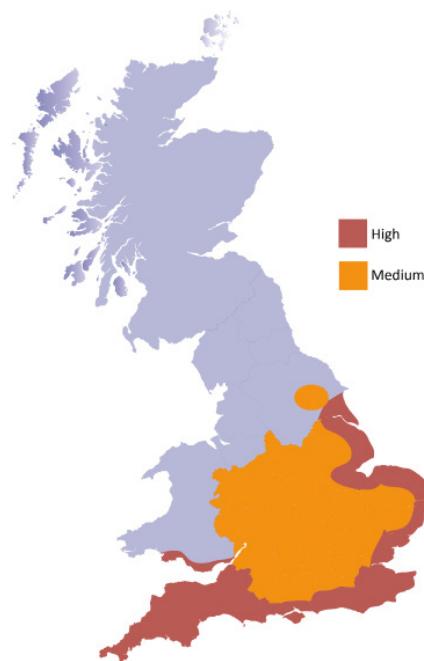
**Vectors:** Aphids; made worse in mild winters and early sown crops.

**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 it's too late!

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



### Tolerance:

- The plant still gets the infection
- but shows little to no symptoms

### Resistance:

- The plant can't be infected

# Winter Barley - Feed Varieties

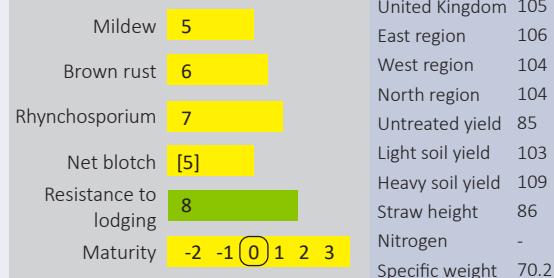


Breeder KWS UK Ltd  
Parentage (11-12 x KWS Orwell)

**ADM's view** - After another outstanding year, both on farm and in trials, KWS Tardis remains unbeaten as the highest yielding two-row on the AHDB Recommended List for 22/23. With yields rivalling the hybrids, we expect Tardis to once again be a popular choice this autumn. Tardis ticks all the boxes with a short and stiff straw, resulting in great lodging resistance and an exceptional disease package, including a 7 for Rhynchosporium.

## Agronomics

BaYMV  
resistant

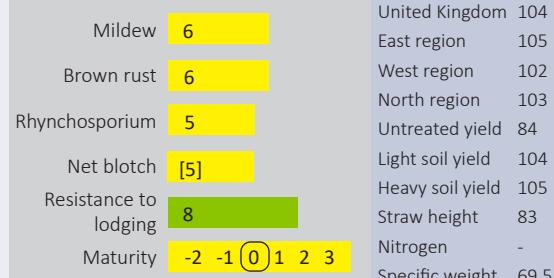


Breeder Elsoms Ackermann Barley  
Parentage KWS Cassia x California

**ADM's view** - Bolton is now in its second year of recommendation, and keeps its position as the second highest yielding two-row variety. It continues in its stablemates' footsteps, driving forward two-row feed barley yields and closing the gap on the hybrids. Bolton is well adapted to all of the UK, but performs particularly well in the East. Bolton also boasts a strong all-round disease package.

## Agronomics

BaYMV  
resistant

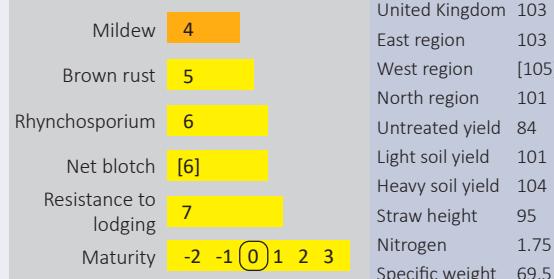


Breeder KWS UK Ltd  
Parentage Amistar x KWS Kosmos

**ADM's view** - Six-row conventional KWS Feeris is a brand new addition to the 22/23 Recommended List, with specific recommendation for BYDV tolerance. KWS Feeris has entered the list only a couple of percent below the highest yielding two-row, 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 an exceptionally stiff straw and a great all-round disease resistance.

## Agronomics

BaYMV  
resistant



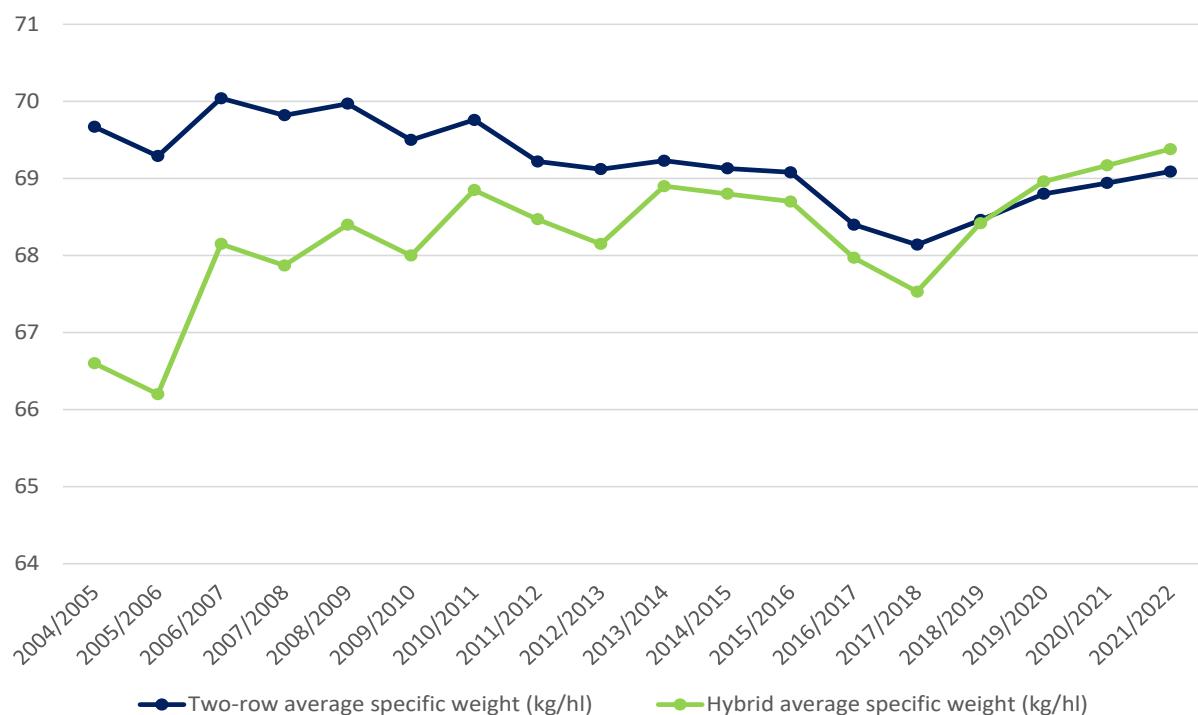
## KWS Feeris trait protection scheme

KWS Feeris has been added to the 22/23 Recommended List with specific recommendation for BYDV tolerance. When buying certified seed, nothing additional needs to be done by the grower.

However, if a grower farms saves the seed, BSBP will collect an extra £30/t trait protection fee - in addition to the farm-saved seed royalty, which will be paid in the usual way.

# Winter Barley - Hybrids

## Grain quality of modern hybrids



Breeder Parentage	Syngenta F1 Hybrid	Agronomics		BaYMV resistant
		***Variety data from a different trial set so cannot be directly compared***		
<b>ADM's view</b> - Exclusive to ADM Agriculture, SY Baracooda has very high yields and consistent performance across all regions and soil types. SY Baracooda is very tall strawed, complemented by good straw strength leading to excellent lodging resistance. This variety also has very attractive all-round disease resistance. Like other hybrids, SY Baracooda also offers a good option for grass weed suppression.	Mildew 7 Brown rust 5 Rhynchosporium 6 Net blotch 5 Resistance to lodging 7 Maturity -2 -1 (0) 1 2 3	United Kingdom 107 East region 107 West region 107 North region 107 Untreated yield 85 Light soil yield 105 Heavy soil yield 106 Straw height 110 Nitrogen - Specific weight 68.7		

Breeder Parentage	Syngenta F1 Hybrid	Agronomics		BaYMV resistant
		***Variety data from a different trial set so cannot be directly compared***		
<b>ADM's view</b> - 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.	Mildew 7 Brown rust 5 Rhynchosporium 5 Net blotch 5 Resistance to lodging 7 Maturity -2 -1 (0) 1 2 3	United Kingdom 106 East region 106 West region 107 North region 106 Untreated yield 84 Light soil yield 105 Heavy soil yield 104 Straw height 103 Nitrogen - Specific weight 70.4		



Breeder KWS UK Ltd

Parentage F1 Hybrid

**ADM's view** - KWS Serafino is a high yielding grain 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. Winter rye can also be grown successfully on heavier soil, but will need good soil structure to get the most out of it. Being 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 brown rust, but KWS Serafino has the highest rating against this particular disease, and yield potential remains in the top three of the descriptive list.

## Agronomics

Brown rust	7
Ripening	-2 -1 0 (1) 2 3

Fungicide-treated grain yield	102
Straw length	130
Protein content	9.5
Hagberg	258
Specific weight	76.7

## KWS SERAFINO

### Why Rye?

#### As Grain

- Unique Pig Feeding attribute
- Bread making
- Malt and Distilling

#### Biogas or Wholecrop

- 35-50T/Ha fresh weight
- 20-25% Starch content

#### Agronomics

- Yields comparative to any second cereal
- 100kg/Ha less Nitrogen needed than second wheat
- High Take-all resistance
- Excellent Blackgrass suppression
- Needs 25% less water than either wheat or barley
- Lowest Carbon footprint of any cereal

### Why KWS SERAFINO?

- KWS Pollen Plus genetics
- Significantly reducing ergot
- True dual purpose variety
- Grain and Biomass/wholecrop
- Second highest grain yield on descriptive list
- Second lowest lodging score on descriptive list
- Best Brown Rust resistance of any Rye

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

**SEEDING  
THE FUTURE  
SINCE 1864**



# Oilseed Rape - Hybrids

The OSR area has increased for the first time in years this season thanks to good establishment in summer 2020 and 2021 which, along with better weather, gave growers renewed confidence. One thing last year highlighted is how growers wanting to establish OSR behind wheat can still come unstuck in a late harvest, so winter barley remains the best entry for OSR. Work continues with companion cropping with, on the whole, good results, and certainly none that are negative. Buckwheat and Berseem Clover are the two species that are giving the best results currently. OSR varieties in the ADM portfolio remain largely unchanged since last year, as our top-performing hybrids continue to impress both us and growers.

DK Excited	 UK Agent	Bayer CropScience	Agronomics																					
<b>ADM's view</b> - DK Excited is proving to be well suited to early drilling and boasts very high vigour in both the autumn and spring. This hybrid also features TuYV resistance, a key part of ADM's varietal selection criteria for new portfolio additions, as well as 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 2022 sowings. DK Excited is also supported by Bayer's industry-leading establishment scheme.			<p>***Variety data from a different trial set so cannot be directly compared***</p> <table> <tbody> <tr> <td>Light leaf spot</td> <td><span style="background-color: yellow;">6</span></td> <td>DEKALB gross output</td> <td></td> </tr> <tr> <td>Stem canker</td> <td><span style="background-color: green;">8</span></td> <td>2021</td> <td>5.2t/ha</td> </tr> <tr> <td>Resistance to lodging</td> <td><span style="background-color: green;">8</span></td> <td>Oil content</td> <td>45.6</td> </tr> <tr> <td>Stem stiffness</td> <td><span style="background-color: yellow;">7</span></td> <td>Plant height</td> <td>4</td> </tr> <tr> <td>Maturity</td> <td><span style="background-color: yellow;">4 5 (6)</span></td> <td></td> <td></td> </tr> </tbody> </table>	Light leaf spot	<span style="background-color: yellow;">6</span>	DEKALB gross output		Stem canker	<span style="background-color: green;">8</span>	2021	5.2t/ha	Resistance to lodging	<span style="background-color: green;">8</span>	Oil content	45.6	Stem stiffness	<span style="background-color: yellow;">7</span>	Plant height	4	Maturity	<span style="background-color: yellow;">4 5 (6)</span>			
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Maturity	<span style="background-color: yellow;">4 5 (6)</span>																							

 UK Agent	Limagrain UK Ltd	Agronomics																									
<b>ADM's view</b> - 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.		<table> <tbody> <tr> <td>Light leaf spot</td> <td><span style="background-color: green;">8</span></td> <td>E/W Gross output</td> <td>105</td> </tr> <tr> <td>Stem canker</td> <td><span style="background-color: yellow;">7</span></td> <td>E/W Seed yield</td> <td>107</td> </tr> <tr> <td>Resistance to lodging</td> <td><span style="background-color: yellow;">[7]</span></td> <td>N Gross output</td> <td>104</td> </tr> <tr> <td>Stem stiffness</td> <td><span style="background-color: yellow;">7</span></td> <td>N Seed yield</td> <td>106</td> </tr> <tr> <td>Maturity</td> <td><span style="background-color: yellow;">4 5 (6)</span></td> <td>Oil content</td> <td>44.3</td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>156</td> </tr> </tbody> </table>	Light leaf spot	<span style="background-color: green;">8</span>	E/W Gross output	105	Stem canker	<span style="background-color: yellow;">7</span>	E/W Seed yield	107	Resistance to lodging	<span style="background-color: yellow;">[7]</span>	N Gross output	104	Stem stiffness	<span style="background-color: yellow;">7</span>	N Seed yield	106	Maturity	<span style="background-color: yellow;">4 5 (6)</span>	Oil content	44.3			Plant height	156	*Limited*
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Duplo	UK Agent	DSV UK Ltd	Agronomics																								
<b>ADM's view</b> - 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>***Variety data from a different trial set so cannot be directly compared***</p> <table> <tbody> <tr> <td>Light leaf spot</td> <td><span style="background-color: yellow;">5</span></td> <td>E/W Gross output</td> <td>109</td> </tr> <tr> <td>Stem canker</td> <td><span style="background-color: green;">9</span></td> <td>E/W Seed yield</td> <td>107</td> </tr> <tr> <td>Resistance to lodging</td> <td><span style="background-color: green;">8</span></td> <td>N Gross output</td> <td>-</td> </tr> <tr> <td>Stem stiffness</td> <td><span style="background-color: green;">8</span></td> <td>N Seed yield</td> <td>-</td> </tr> <tr> <td>Maturity</td> <td><span style="background-color: yellow;">4 5 (6)</span></td> <td>Oil content</td> <td>46.8</td> </tr> <tr> <td></td> <td></td> <td>Plant height</td> <td>146</td> </tr> </tbody> </table>	Light leaf spot	<span style="background-color: yellow;">5</span>	E/W Gross output	109	Stem canker	<span style="background-color: green;">9</span>	E/W Seed yield	107	Resistance to lodging	<span style="background-color: green;">8</span>	N Gross output	-	Stem stiffness	<span style="background-color: green;">8</span>	N Seed yield	-	Maturity	<span style="background-color: yellow;">4 5 (6)</span>	Oil content	46.8			Plant height	146
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# Oilseed Rape - Hybrids

## Establishment schemes *spread the risk*



On select varieties within our portfolio, ADM can offer market-leading establishment schemes, with up to £100/pack rebate upon failure to establish.

Terms and conditions apply. Please contact us for further information.

AURELIA FULLY LOADED HYBRID	UK Agent	Limagrain UK Ltd	Agronomics	E/S *Limited*
<p><b>ADM's view</b> - 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>			<p>Light leaf spot 7 Stem canker 7 Resistance to lodging 8 Stem stiffness 8 Maturity 4 (5) 6</p>	<p>E/W Gross output 105 E/W Seed yield 105 N Gross output 105 N Seed yield 106 Oil content 45.0 Plant height 150</p>

Matrix CL	UK Agent	DSV UK Ltd	Agronomics	
<p><b>ADM's view</b> - 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> <p>***Clearfield variety***</p>			<p>Light leaf spot 6 Stem canker 8 Resistance to lodging [8] Stem stiffness 8 Maturity 4 5 (6)</p>	<p>E/W Gross output 100 E/W Seed yield 99 N Gross output 96 N Seed yield 96 Oil content 45.8 Plant height 159</p>

Crossfit CR	UK Agent	DSV UK Ltd	Agronomics	
<p><b>ADM's view</b> - As we see the risk of clubroot increase in pockets of the UK, demand for a TuYV and clubroot-resistant variety has become more prevalent than ever. Quad-layered Crossfit CR offers exactly that, with the addition of pod shatter resistance and RLM7 resistance to Phoma. Crossfit CR is a new addition to the AHDB RL 2022/23, with recommendation for the East/West as the first variety with these four genetic traits stacked together. This resistance combination ensures it will be a popular choice for growers looking into this market segment.</p> <p>***Clubroot variety***</p>			<p>Light leaf spot 5 Stem canker 9 Resistance to lodging [8] Stem stiffness 7 Maturity 4 5 (6)</p>	<p>E/W Gross output 99 E/W Seed yield 98 N Gross output [92] N Seed yield [91] Oil content 46.4 Plant height 148</p>

# Oilseed Rape - Conventional

	UK Agent	Limagrain UK Ltd	Agronomics
<p><b>ADM's view</b> - Acacia has had another good year in trials and remains the highest yielding conventional variety on the 2022/23 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.</p>	Light leaf spot	6	E/W Gross output 104
	Stem canker	5	E/W Seed yield 104

	UK Agent	KWS UK Ltd	Agronomics	
<p><b>ADM's view</b> - 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 2022/23 season.</p>	***Variety data from a different trial set so cannot be directly compared***	Light leaf spot	6	UK yield 101

## Companion cropping variety selection

Companion cropping can be extremely effective in improving the establishment and yield of oilseed rape crops, by reducing weed pressure, fixing nitrogen and protecting against flea beetle. This range is based on rigorous variety selection to deliver reliable results – accept no imitations!

### \*\* ADM's Top Pick \*\*



**\*TABOR berseem clover** (*Trifolium alexandrinum*) is the only proven 'single-cut' variety of berseem clover available in the UK. All other varieties are 'multi-cut' and will regrow rapidly and readily following frost.

SHIELDER	Sowing rate: 10kg/ha
<ul style="list-style-type: none"> <li>*Potent smell to disguise the oilseed rape crop</li> <li>*Fixes nitrogen</li> <li>*Strong rooting depth to aid establishment</li> <li>*Creates dense protective canopy</li> </ul>	50% LIFAGO Buckwheat 25% TABOR Berseem Clover 25% Fenugreek

**\*LIFAGO buckwheat** (*Fagopyrum tataricum*) is unique from other buckwheat varieties (*Fagopyrum esculentum*) – characterised by more vigorous autumn growth and superior leaf canopy to provide the most effective physical protection from flea beetle.

# Oilseed Rape - HOLL

## HOLL establishment scheme *Security of replacement seed*



ADM is pleased to offer replacement seed **free of charge** for any V367OL seed that fails to establish\*.

\*Terms and conditions apply

V367OL



UK Agent

Bayer CropScience



### Agronomics

\*\*\*Variety data from a different trial set so cannot be directly compared\*\*\*

Light leaf spot	6
Stem canker	6
Resistance to lodging	8
Stem stiffness	7
Maturity	4(5)6

Farm strip trials GO 2021	5.56t/ha
Farm strip trials oil content 2021	45.75
Plant height	5

**ADM's view** - V367OL is the latest HOLL (High Oleic, Low Linolenic) variety to be brought to commercialisation. This variety has replaced sector stalwart V316OL, 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 V367OL now includes pod shatter resistance to help protect the added value seed it provides.

### N FIXER

Sowing rate:  
10kg/ha

- \*Rapid growth and nitrogen fixation in the autumn
- \*Frost-tender varieties that will not regrow
- \*Suppresses weeds
- \*Effective short-term nitrogen-fixing cover crop



### FIX AND BLOCK

Sowing rate:  
10kg/ha

- \*Suppresses common weed growth
- \*Fast-growing annual legumes
- \*Prevents regrowth with frost-tender clover varieties
- \*Deters flea beetle



### BEETLE BLASTER

Sowing rate:  
10kg/ha

- \*Frost-sensitive to guarantee no regrowth
- \*Nutrient scavenging and nitrogen fixing
- \*Rapid establishment and high vigour
- \*Source of nectar for beneficial insects



### FIX AND PROTECT

Sowing rate:  
10kg/ha

- \*Nitrogen-fixing properties
- \*Frost-tender to ease competition over the winter period
- \*Quick, vigorous growth to enhance weed suppression
- \*Provides a source of nectar for beneficial insects



**\*Fenugreek's** odour is a natural flea beetle deterrent. Substituting with other species is not effective.

**\*BINGO red vetch** (*Vicia atropurpurea*) is significantly more frost tender than all common vetch (*Vicia sativa*) varieties and grows much more vigorously in a short period of time. Combines maximum nitrogen fixation with superior weed suppression.

# Winter Oats and Beans



Breeder IBERS, Aberystwyth  
Parentage CWO 02/18/05 x 87-42CN1/2/2

**ADM's view** - Mascani remains the most in-demand winter oat variety among end-users and, in many cases, is the only variety oat millers will contract forward. 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.

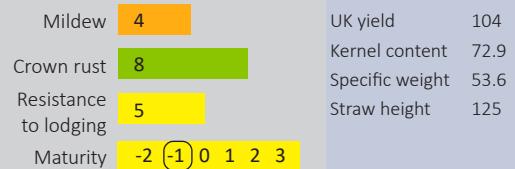
## Agronomics



Breeder RAGT Seeds UK  
Parentage 932536//24062/24082

**ADM's view** - RGT Southwark sits as the highest yielding winter oat on the AHDB RL by four percentage points, and has a massive seven-point margin over benchmark Mascani. RGT Southwark has exceptional resistance to crown rust, which together with early maturity and very high specific weight makes RGT Southwark the go-to variety for any feed grower or home-millers. Its straw yield is also exceptional, making it a wise choice for whole-crop markets or growers needing the straw.

## Agronomics



Breeder Wherry & Sons  
UK Agent Senova Ltd

**ADM's view** - Vespa has now established itself as the highest yielding winter bean variety. It looks to have the right quality for the human consumption premium market and is supported by a good agronomic package, as well as good standing power.

**End-market suitability** - As the new highest yielding commercially available winter bean, Vespa looks set to take on the market. A yield advantage of 13 points over closest benchmark rival Wizard is not something that can be ignored. The quality of the grain 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.

## Agronomics



Breeder Limagrain Europe  
UK Agent Limagrain UK Ltd

**ADM's view** - Tundra remains the market-leading winter bean variety and performs well for all end-use applications. 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.

**End-market suitability** - This 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.

## Agronomics



# Seed Treatments

Seed treatment (Active ingredient(s))	Protects against												
	Approved for use in	Microdochium seedling blight	Fusarium seedling blights	Septoria seedling blight	Loose smut	Bunt	Blue mould	Leaf stripe	Covered smut	Take all	Wheat bulb fly	Wireworm	Growth promoting benefits
<b>Prepper</b> (Fludioxonil)	Wheat, barley, oats, rye and triticale	Wheat Barley	Wheat Barley	Wheat		Wheat		Barley	Barley				
<b>Redigo Pro</b> (Prothioconazole Tebuconazole)	Wheat, barley, oats, durum wheat, rye and triticale	Wheat Barley	Wheat Barley		Wheat Barley	Wheat	Wheat	Barley	Barley				
<b>Vibrance Duo</b> (Fludioxonil Sedaxane)	Barley, spring oats, wheat, winter rye and winter triticale	Wheat Barley	Wheat	Wheat	Wheat	Wheat		Barley	Barley				✓
<b>Latitude</b> (Silthiofam)	Winter and spring wheat and winter barley									✓			
<b>Signal 300ES</b> (Cypermethrin)	Autumn-sown wheat and barley (before Jan 31st)										✓	✓	
<b>Tiros</b> (Bacterial Endophyte)	All crops												✓
<b>Exseed</b> (Rhizobium bacteria)	Pulses												✓

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

**Prepper** ADM's wheat SPD of choice and **Redigo Pro** is our barley SPD- both

offer a wide range of protection against seed and soil-borne diseases.

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

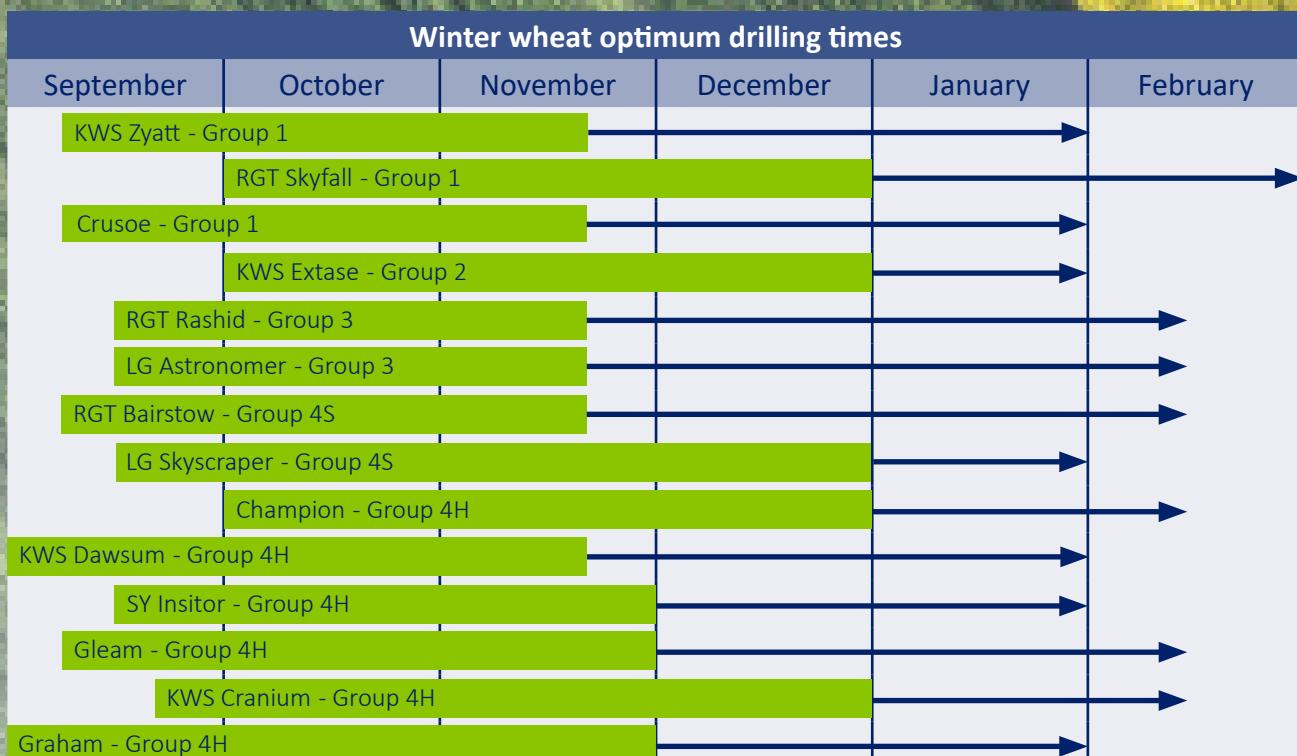
**Latitude** The only seed treatment to help reduce take-all.

**Signal 300ES** The only insecticidal seed treatment.

**Tiros** Enables crops to fix nitrogen, increases nutrient availability, improves plant germination, boosts growth of root and shoot biomass and creates more robust crops which can handle stress throughout the season.

**Exseed** Helps biological fixation of nitrogen in the crop, enhances germination and increases plant hormone production to maximise root formation.

# Helpful Summary Guides



Most winter barleys tend to fit into the same drilling slots, with no major varietal difference. The main determinant of optimum drilling times depends on whether the barley is a conventional or a hybrid.





# Helpful Summary Guides

This table is a quick 'go to' guide when you need to know the seed rate (kg/ha) depending on your seed TGW and sowing rate per m<sup>2</sup>.

Cut out this page and keep it in your tractor for a quick seed rate check!

		Seeds /m <sup>2</sup>															
Seed rate (kg/ha)	100	125	150	175	200	225	250	275	300	325	350	375	400	450	500	550	600
TGW	35	44	53	61	70	79	88	96	105	114	123	131	140	158	175	193	210
36	36	45	54	63	72	81	90	99	108	117	126	135	144	162	180	198	216
37	37	46	56	65	74	83	93	102	111	120	130	139	148	167	185	204	222
38	38	48	57	67	76	86	95	105	114	124	133	143	152	171	190	209	228
39	39	49	59	68	78	88	98	107	117	127	137	146	156	176	195	215	234
40	40	50	60	70	80	90	100	110	120	130	140	150	160	180	200	220	240
41	41	51	62	72	82	92	103	113	123	133	144	154	164	185	205	226	246
42	42	53	63	74	84	95	105	116	126	137	147	158	168	189	210	231	252
43	43	54	65	75	86	97	108	118	129	140	151	161	172	194	215	237	258
44	44	55	66	77	88	99	110	121	132	143	154	165	176	198	220	242	264
45	45	56	68	79	90	101	113	124	135	146	158	169	180	203	225	248	270
46	46	58	69	81	92	104	115	127	138	150	161	173	184	207	230	253	276
47	47	59	71	82	94	106	118	129	141	153	165	176	188	212	235	259	282
48	48	60	72	84	96	108	120	132	144	156	168	180	192	216	240	264	288
49	49	61	74	86	98	110	123	135	147	159	172	184	196	221	245	270	294
50	50	63	75	88	100	113	125	138	150	163	175	188	200	225	250	275	300
51	51	64	77	89	102	115	128	140	153	166	179	191	204	230	255	281	306
52	52	65	78	91	104	117	130	143	156	169	182	195	208	234	260	286	312
53	53	66	80	93	106	119	133	146	159	172	186	199	212	239	265	292	318
54	54	68	81	95	108	122	135	149	162	176	189	203	216	243	270	297	324
55	55	69	83	96	110	124	138	151	165	179	193	206	220	248	275	303	330
56	56	70	84	98	112	126	140	154	168	182	196	210	224	252	280	308	336
57	57	71	86	100	114	128	143	157	171	185	200	214	228	257	285	314	342
58	58	73	87	102	116	131	145	160	174	189	203	218	232	261	290	319	348
59	59	74	89	103	118	133	148	162	177	192	207	221	236	266	295	325	354
60	60	75	90	105	120	135	150	165	180	195	210	225	240	270	300	330	360
61	61	76	92	107	122	137	153	168	183	198	214	229	244	275	305	336	366
62	62	78	93	109	124	140	155	171	186	202	217	233	248	279	310	341	372
63	63	79	95	110	126	142	158	173	189	205	221	236	252	284	315	347	378
64	64	80	96	112	128	144	160	176	192	208	224	240	256	288	320	352	384
65	65	81	98	114	130	146	163	179	195	211	228	244	260	293	325	358	390

# Stewardship & Cover Crops

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	Over Winter Use	Nitrogen Fix	Leaching Prevention	Organic Matter	Soil Structure	Biofumigant	Allelopathic	Nematode Control	Weed Control
<b>MUSTARD</b>														
Brown	<i>Brassica juncea</i>	Brassicaceae	5kg	0.5-1cm	Apr-Oct	YES								
White	<i>Sinapsis alba</i>	Brassicaceae	15kg	0.5-1cm	Apr-Sep	NO								
White (type 2)	<i>Sinapsis alba</i>	Brassicaceae	15kg	0.5-1cm	Apr-Sep	NO								
Ethiopian Mustard	<i>Brassica carinata</i>	Brassicaceae	15kg	2-3cm	May-Aug	YES								
<b>VETCH</b>														
Common	<i>Vicia sativa</i>	Legume	50kg	1-2cm	Mar-Oct	YES								
Red	<i>Vicia villosa</i>	Legume	50kg	1-2cm	Mar-Oct	NO								
<b>OIL RADISH</b>														
Classic	<i>Raphanus sativus</i>	Brassicaceae	10-15kg	1-2cm	Apr-Sep	NO								
Type 2	<i>Raphanus sativus</i>	Brassicaceae	10-25kg	1-2cm	Apr-Sep	NO								
Type 1	<i>Raphanus sativus</i>	Brassicaceae	10-25kg	1-2cm	Apr-Sep	NO								
Tillage	<i>Raphanus sativus</i>	Brassicaceae	10-15kg	1-2cm	Apr-Aug	NO								
<b>OTHER SPECIES</b>														
Berseem Clover	<i>Trifolium alexandrinum</i>	Legume	15kg	1cm	Mar-Aug	NO								
Black Oats	<i>Avena strigosa</i>	Cereal	50kg	1-2cm	Aug-Oct	NO								
Buckwheat	<i>Fagopyrum esculentum</i>	Polygonaceae	50kg	2-3cm	May-July	NO								
Crimson Clover	<i>Trifolium incarnatum</i>	Legume	15kg	1cm	Aug-Sep	YES								
Linseed	<i>Linum usitatissimum</i>	Linaceae	50kg	2-3cm	Apr-Aug	NO								
Lucerne	<i>Medicago sativa</i>	Legume	25kg	1-2cm	Apr-Aug	YES								
Niger	<i>Guizotia abyssinica</i>	Asteraceae	10kg	1-2cm	Apr-Aug	NO								
Phacelia	<i>Phacelia tanacetifolia</i>	Boraginaceae	8kg	0.5cm	Mar-Aug	NO								
Rye	<i>Secale cereale</i>	Cereal	50kg	1-2cm	Aug-Oct	YES								
Sunflower	<i>Helianthus annuus</i>	Asteraceae	25kg	2-3cm	Apr-Aug	NO								

# Stewardship & Cover Crops

## Grass seed

ADM can cater for any situation, with our extensive selection of grass seed mixes on offer - from lawn and amenity, to hay and silage mixes.

We strive to offer the best quality mixtures at the most competitive price across our whole portfolio. Get in touch! Our team are on hand to help you select the best options for your situation.

## Stewardship scheme mixes

Countryside Stewardship will continue to be offered until the Environmental Land Management (ELM) Scheme begins in 2024. The scheme is designed to incentivise farmers and land managers to enhance the environment with a more targeted approach.

For further information visit [www.gov.uk/countrysidestewardship](http://www.gov.uk/countrysidestewardship).

Our range of mixtures is designed to keep Countryside Stewardship simple, with products tailored to the various schemes.

<b>GRABBER</b>	Sowing rate: 35-50kg/ha	<b>AUTUMN DM</b>	Sowing rate: 35kg/ha
*Fixes and catches nitrogen *Overwinters *Low cost *Good weed suppression	80% POWERGREEN Rye 20% NACRE Vetch	*Suitable for early sowing *High dry matter *Fixes and catches nitrogen *Good for soil structure	80% POWERGREEN Rye 15% JOSE Vetch 5% STALA Phacelia
			
<b>ECOCOVER</b>	Sowing rate: 25-50kg/ha	<b>SPRINTER</b>	Sowing rate: 25-35kg/ha
*Low cost *Covers ground through winter *Fast establishment *Good weed suppression	80% POWERGREEN Rye 20% SUNSHINE White Mustard	*Best sown in early autumn *Short term, very quick growing *Fixes and catches nitrogen *Winter kill is likely	70% LUXURIAL Black Oats 30% JOSE Vetch
			
<b>SOIL REVIVOR</b>	Sowing rate: 25kg/ha	<b>CATCHMORE</b>	Sowing rate: 25kg/ha
*Diverse mixture *Good for soil structure *High dry matter *Catches nitrogen	80% LUXURIAL Black Oats 15% ROMESA Oil Radish 5% SCALA Brown Mustard	*Very quick growing *Catches nitrogen very quickly *Suitable for catch crop *Covers ground through winter	60% POWERGREEN Rye 25% SUNSHINE White Mustard 10% SCALA Brown Mustard 5% STALA Phacelia
			

## 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 & services include:

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

**3m T**

Combined crops purchased

**6,000**

Supply partner farmers



Certifications:  
SEDEX Members Ethical Trade Audit (SMETA)  
TASCC  
FIAS  
EFIC 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.

**2m T**

Non-grain animal feed supply

**450,000 MT**

UK ports storage



## ADM Agriculture Immingham

Port facility located on the south bank of the Humber Estuary, handling:

- Grains
- Oilseeds
- Fertilisers



## ADM Agriculture Great Yarmouth

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

**20,000 MT**

Total ports grain storage capacity



Tel: 01472 666 211  
Web: [www.adm.com](http://www.adm.com) | [www.adm-agri.co.uk](http://www.adm-agri.co.uk)

### 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](http://www.adm.com).

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