



**senova**

# *Varieties* *of distinction* 2024

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



## Almara is a new Group 3 addition to the AHDB RL for the North.

It combines high northern yields with other desired characteristics – stiff straw, early ripening, very good disease resistance, a high specific weight and distilling potential.

Almara has excellent disease resistance, particularly to yellow rust and mildew which is an increasing problem in the North. Almara is suitable for all Group 3 markets, distilling, biscuit, export and feed.



### GRAIN QUALITY

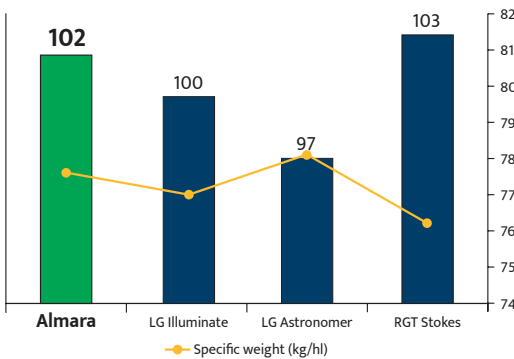
Specific weight (kg/hl)	77.6
Hagberg Falling Number	186
Protein content %	11.1
Protein content % – milling spec	12.2

### AGRONOMICS

Resistance to lodging (-PGR)	6
Resistance to lodging (+PGR)	7
Straw length with PGR (cm)	79
Ripening (days ± RGT Skyfall)	+1

### NORTH TREATED YIELDS

as % T C, 11.3 t/ha



### DISEASE RESISTANCE

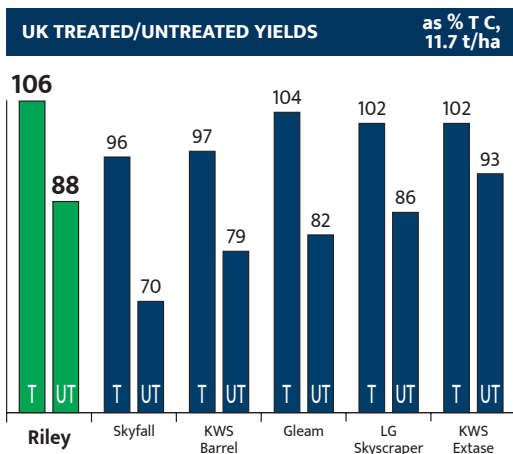
Mildew	[6]
Yellow rust	8
Brown rust	6
<i>Septoria tritici</i>	6.0
Eyespot	4
Fusarium	[6]
OWBM	R

AHDB Winter Wheat Recommended List 2024/25

## Riley is a hard Group 4 Candidate for 2024.

It produces superb yields in all regions, particularly the East and West and combines this performance with excellent agronomics and disease resistance.

With short, exceptionally stiff straw, excellent all-round disease resistance, including a 9 for yellow rust and early ripening, Riley will be a popular feed choice.



**REGIONAL YIELDS**

	East (11.7 t/ha)	West (12.1 t/ha)	North (10.8 t/ha)
<b>Riley</b>	<b>106</b>	<b>[106]</b>	<b>[[103]]</b>
Skyfall	96	[96]	[[97]]
KWS Barrel	97	[94]	[[103]]
Gleam	104	[105]	[[102]]
LG Skyscraper	102	[102]	[[98]]
KWS Extase	102	[104]	[[99]]

### GRAIN QUALITY

Specific weight (kg/hl)	76.7
Hagberg Falling Number	292
Protein content %	10.8

### AGRONOMICS

Lodging % Untreated	1
Lodging % Treated	0
Straw length without PGR (cm)	81
Ripening (days ± RGT Skyfall)	0

### DISEASE RESISTANCE

Mildew	8
Yellow rust	9
Brown rust	4
<i>Septoria tritici</i>	6.2
Eyespot	7
OWBM	-

AHDB Winter Wheat Candidates 2024

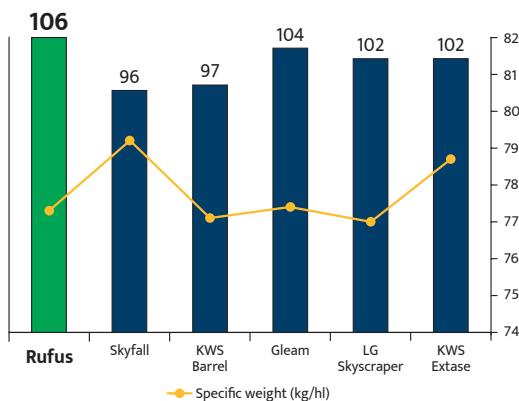
## Rufus is a new hard Group 4 RL Candidate 2024.

It combines high UK yields with excellent agronomics and grain quality.

Rufus performs particularly well in the East and West, with exceptional yields. It has moderate height, very stiff straw, is early to ripen and has a very good specific weight.

With excellent resistance to yellow rust, *Septoria tritici* and OWBM resistance, Rufus is a good choice for all farms.

### UK TREATED YIELD as % T C, 11.7 t/ha



### GRAIN QUALITY

Specific weight (kg/hl)	77.3
Hagberg Falling Number	296
Protein content %	10.9

### AGRONOMICS

Resistance to lodging (-PGR)	0
Resistance to lodging (+PGR)	0
Straw length with PGR (cm)	89
Ripening (days ± RGT Skyfall)	0

### REGIONAL YIELDS

	East (11.7 t/ha)	West (12.1 t/ha)	North (10.8 t/ha)
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Rufus	106	[107]	[[100]]
Skyfall	96	[96]	[[97]]
KWS Barrel	97	[94]	[[103]]
Gleam	104	[105]	[[102]]
LG Skyscraper	102	[102]	[[98]]
KWS Extase	102	[104]	[[99]]

### DISEASE RESISTANCE

Mildew	6
Yellow rust	9
Brown rust	3
<i>Septoria tritici</i>	6.3
Eyespot	4
OWBM	R

AHDB Winter Wheat Candidates 2024

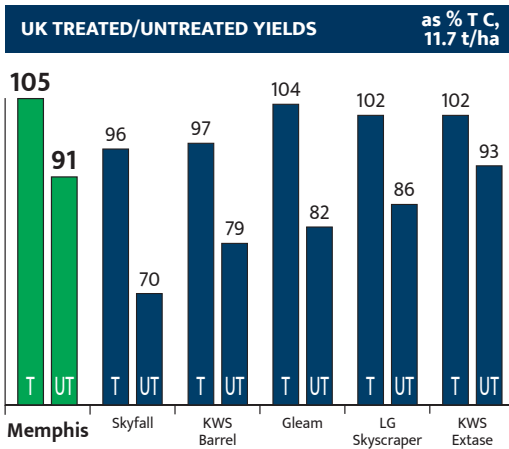
# WINTER WHEAT Memphis

AHDB  
CANDIDATE

## Memphis is a hard Group 4 Candidate for 2024.

It produces superb yields in all regions. Memphis has short, exceptionally stiff straw and excellent all-round disease resistance, including a 9 for yellow rust and as shown by its exceptionally high untreated yield. Memphis is also early to ripen.

Memphis should prove popular with growers in all regions of the UK.



**GRAIN QUALITY**

Specific weight (kg/hl)	76.7
Hagberg Falling Number	290
Protein content %	10.6

**AGRONOMICS**

Lodging % (-PGR)	0
Lodging % (+PGR)	0
Straw length without PGR (cm)	82
Ripening (days ± RGT Skyfall)	-1

**REGIONAL YIELDS**

	East (11.7 t/ha)	West (12.1 t/ha)	North (10.8 t/ha)
<b>Memphis</b>	<b>106</b>	<b>[105]</b>	<b>[[103]]</b>
Skyfall	96	[96]	[[97]]
KWS Barrel	97	[94]	[[103]]
Gleam	104	[105]	[[102]]
LG Skyscraper	102	[102]	[[98]]
KWS Extase	102	[104]	[[99]]

**DISEASE RESISTANCE**

Mildew	8
Yellow rust	9
Brown rust	5
<i>Septoria tritici</i>	6.3
Eyespot	7
OWBM	-

AHDB Winter Wheat Candidates 2024

# FIVE REASONS TO GROW

# Costello

WINTER WHEAT



STILL NUMBER 1 FOR  
GRAIN QUALITY

- 1 **OUTSTANDING GRAIN QUALITY – HIGHEST SPECIFIC WEIGHT ON RL**
- 2 **CONSISTENT PERFORMANCE IN ALL SITUATIONS**
- 3 **SUPERB DISEASE RESISTANCE**
- 4 **SHORT, VERY STIFF STRAW**
- 5 **RESISTANT TO SOIL-BORNE MOSAIC VIRUS**

*Costello will reduce your risk and enhance your profit*

**Costello remains a popular hard Group 4 wheat combining all the features desired on farm – exceptional, consistent grain quality in all conditions, excellent disease resistance, very high yields and short, stiff straw.**

Costello produces consistent yields in all locations, rotations and on all soil types.

Costello performs well in all weather conditions and maintains its excellent quality, an important asset on UK farms.

Costello has excellent all-round disease resistance, particularly to the important diseases yellow rust, *Septoria tritici* and Fusarium. The robust disease resistance package of Costello reduces the risk for growers in high disease seasons and could help to manage costs, which is particularly important in the second wheat situation.

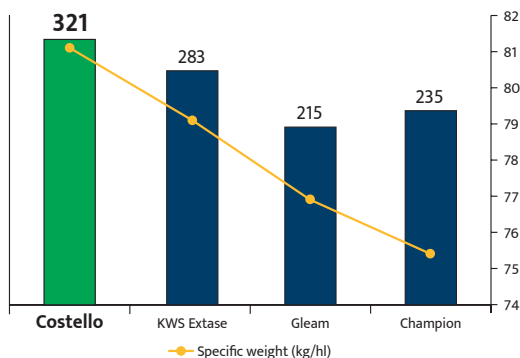
The grain quality of Costello is truly exceptional, with once again, both the highest specific weight and HFN on the AHDB RL 2024/25.

It also has a high protein content and shows excellent resistance to sprouting in difficult seasons. Superb, reliable grain quality provides growers with security at harvest and widens market opportunities for Costello which has been key to its success.

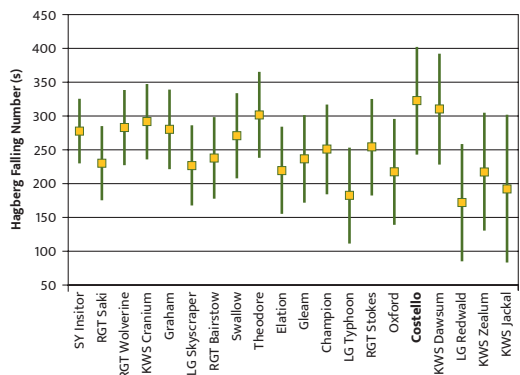
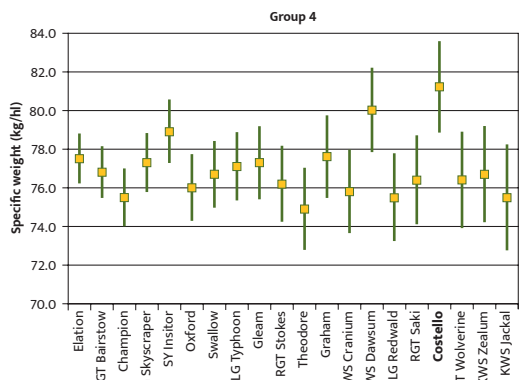
## REGIONAL YIELDS

UK Treated Yield % (11.0 t/ha)	98
East Treated Yield (10.9 t/ha)	99
West Treated Yield (11.2 t/ha)	98
North Treated Yield (11.3 t/ha)	99
First cereal (11.3 t/ha)	99
Second cereal (10.2 t/ha)	97

## HAGBERG FALLING NUMBER/SPECIFIC WEIGHT



Costello has sustained its popularity due to its consistency of performance and grain quality, as shown in the graphs, where its exceptional specific weight in particular stands out with low variability. Costello provides growers with a reliable, lower risk option with increased marketability.



Source: NIAB Variety Interactions Handbook 2023

## GRAIN QUALITY

Specific weight (kg/hl)	81.1
Hagberg Falling Number	321
Protein content %	11.4
Protein content % – milling spec	12.3

## AGRONOMICS

Resistance to lodging (-PGR)	7
Resistance to lodging (+PGR)	8
Height without PGR (cm)	85
Ripening (days ± RGT Skyfall)	+2
Resistance to sprouting	6

## DISEASE RESISTANCE

Mildew	8
Yellow rust	9
Yellow rust (young plant)*	r
Brown rust	5
<i>Septoria tritici</i>	5.8
Eyespot	5
Fusarium	7
OWBM	-

AHDB Winter Wheat Recommended List 2024/25

\*See AHDB RL for more information

Costello is a hard milling feed variety offering moderate yields. Costello has good straw characteristics but its real strengths lie in its good grain quality, with an excellent specific weight and Hagberg Falling Number, as well as its solid disease profile, particularly when looking at yellow rust.

NIAB Cereals Guide, Autumn 2023

# Swallow

## WINTER WHEAT

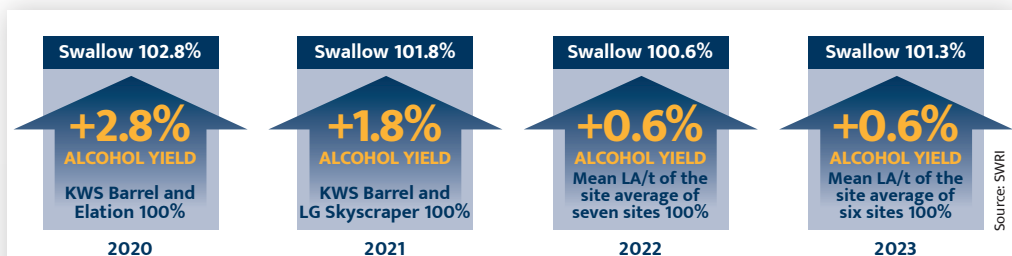
AHDB  
RECOMMENDED

**Swallow is a soft wheat for the North. It is a superb distilling variety, with all of the desired attributes for this region; excellent grain quality, short, stiff straw, early maturity and a solid disease resistance package.**

Swallow tillers well and produces high yields, particularly in the North. It has notably shorter, stiffer straw than the leading Scottish varieties and is in fact the shortest variety on the AHDB RL. Swallow is early to ripen, an important attribute for the Northern market.

Swallow has good all round disease resistance and resistance to OWBM and has maintained a good level of resistance year on year. It also shows excellent potential for early drilling, which should also appeal to many growers.

With very high, consistent yields over several years of SWRI testing, Swallow sets new standards for distilling and is an exciting new variety for distillers.



### SWRI on Swallow 2022

Swallow gave its expected performance producing high and consistent alcohol yields across the seven sites tested. A clearly Good variety for distilling.

### SWRI on Swallow 2023

Swallow gave the best mean alcohol yield performance of all varieties assessed across the six sites, typical of this excellent distilling variety.

### GRAIN QUALITY

Specific weight (kg/hl)	76.6
Hagberg Falling Number	255
Protein content %	10.9

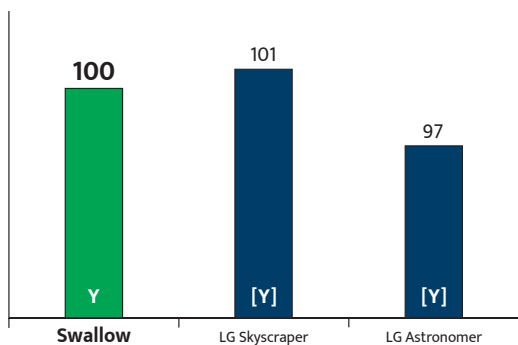
### AGRONOMICS

Resistance to lodging (-PGR)	8
Resistance to lodging (+PGR)	9
Height without PGR (cm)	80
Ripening (days ± RGT Skyfall)	+1
Resistance to sprouting	[5]



## NORTH TREATED YIELD

as % C, 11.3 t/ha



## DISEASE RESISTANCE

Mildew	6
Yellow rust	7
Yellow rust (young plant)*	r
Brown rust	5
<i>Septoria tritici</i>	5.1
Eyespot	4
Fusarium	6
OWBM	R

AHDB Winter Wheat Recommended List 2024/25. Distilling ratings Y-suitable, [Y] may be suitable. \*See AHDB RL for more information.



# MULIKA

## SPRING WHEAT

AHDB  
RECOMMENDED

### Mulika remains a very popular Group 1 spring wheat variety.

It was the first Group 1 wheat with orange blossom midge resistance. Mulika continues to have a considerable loyal following and remains a popular variety on farm.

Mulika combines a good yield potential from both autumn and spring sowings, with moderate length straw, robust disease resistance and superb grain quality. It is early to ripen and has always shown good resistance to sprouting.

Mulika performs well in baking tests giving the potential for good market premiums. These attributes ensure that Mulika is the perfect flexible spring crop option to achieve excellent gross margins.

#### TREATED YIELD

Spring sown (7.1 t/ha)	95
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#### GRAIN QUALITY (Spring sowing)

Specific weight (kg/hl)	77.3
Hagberg Falling Number	332
Protein content %	14.0

#### Agronomy tips

Mulika can be successfully grown from November to April. On seed rate we can only give general guidance as this depends on drilling date, soil type, seed bed quality, geographic location etc. In general, aim for around 600 ears per m<sup>2</sup>. For late autumn sowings seed rates should be around 300 to 325 seeds/m<sup>2</sup>. For spring sowings, taking into account the variations mentioned above, an approximate seed rate recommendation based on available information would be 350 to 400 seeds/m<sup>2</sup>. If the drilling date gets later and moves into April then a rate toward the higher end of this or possibly slightly over may be wise. Little lodging has been seen in trials over recent years and so no data is available from AHDB on lodging. Although Mulika stands well it is advisable to apply a PGR programme, especially on late autumn sowings and growers should consult their agronomist.

#### AGRONOMICS

Resistance to lodging (+PGR)	[4]
Straw height (cm) -PGR	78
Ripening (days ± Mulika)	0

#### DISEASE RESISTANCE

Mildew	6
Yellow rust	6
Brown rust	8
<i>Septoria tritici</i>	6
OWBM	R

AHDB Spring Wheat Recommended List 2024



# Valerie

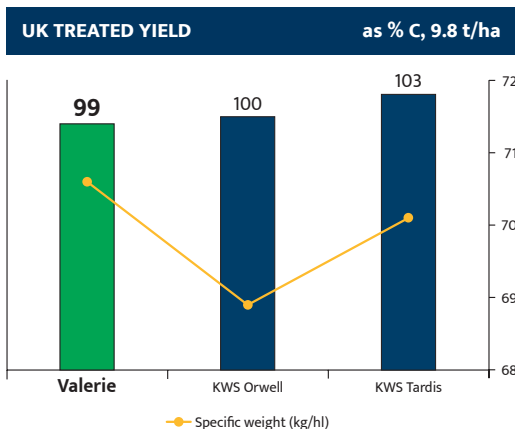
## WINTER BARLEY

AHDB  
RECOMMENDED

### Valerie offers growers the complete package of superb grain quality, high yields and impressive agronomics.

It is a very attractive two row feed variety, which produces a sea of bright ears and big bold grain. Valerie boasts an exceptional agronomic package, with the features desired on farm, excellent resistance to lodging, early ripening and robust resistance to the major diseases. Valerie is the only RL variety to have resistance to both strain 1 and 2 BaYMV.

Valerie has big, bold grains with a high TGW and the lowest screening losses on the winter barley RL – all important characteristics required by the market. It is proving to be a very popular choice for all regions.



**GRAIN QUALITY**

Specific weight (kg/hl)	70.6
Screenings % (<2.25mm)	0.8
Screenings % (<2.5mm)	2.1

**AGRONOMICS**

Resistance to lodging (-PGR)	8
Resistance to lodging (+PGR)	8
Straw height (cm) -PGR	95
Straw height (cm) +PGR	87
Brackling %	8
Ripening (days ± KWS Orwell)	-1

**REGIONAL YIELDS**

	East (9.5 t/ha)	West (9.7 t/ha)	North (10.5 t/ha)
<b>Valerie</b>	<b>99</b>	<b>97</b>	<b>100</b>
KWS Orwell	99	100	99
KWS Tardis	104	101	103

**DISEASE RESISTANCE**

Mildew	7
Brown rust	4
<i>Rhynchosporium</i>	6
Net Blotch	5
BaYMV1 and BaMMV	R
BaYMV2	R

AHDB Winter Barley Recommended List 2024/25

# BORDEAUX

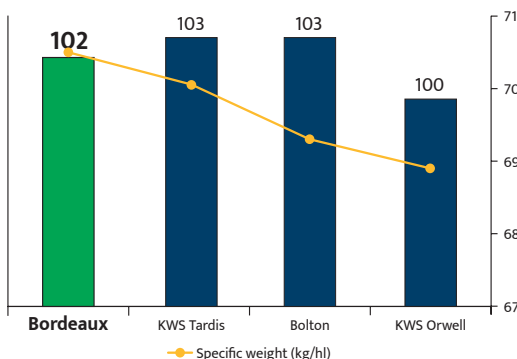
## WINTER BARLEY



### Bordeaux is a high yielding variety with superb grain quality.

Importantly, Bordeaux has a superb specific weight and very low screenings. Bordeaux is a taller-strawed variety, useful in dry years, but has very good resistance to lodging. It also boasts early maturity and finishes well in the field.

#### UK TREATED YIELD as % C, 9.8 t/ha



REGIONAL YIELDS	East (9.5 t/ha)	West (9.7 t/ha)	North (10.5 t/ha)
<b>Bordeaux</b>	<b>104</b>	<b>100</b>	<b>102</b>
KWS Tardis	104	101	103
Bolton	105	101	101
KWS Orwell	99	100	99

#### GRAIN QUALITY

Specific weight (kg/hl)	70.5
Screenings % (<2.25mm)	1.3
Screenings % (<2.5mm)	3.7

#### AGRONOMICS

Resistance to lodging (-PGR)	8
Resistance to lodging (+PGR)	8
Straw height (cm) -PGR	95
Straw height (cm) +PGR	85
Brackling %	9
Ripening (days ± KWS Orwell)	0

#### DISEASE RESISTANCE

Mildew	6
Brown rust	6
<i>Rhynchosporium</i>	4
Net Blotch	5
BaYMV1 and BaMMV	R

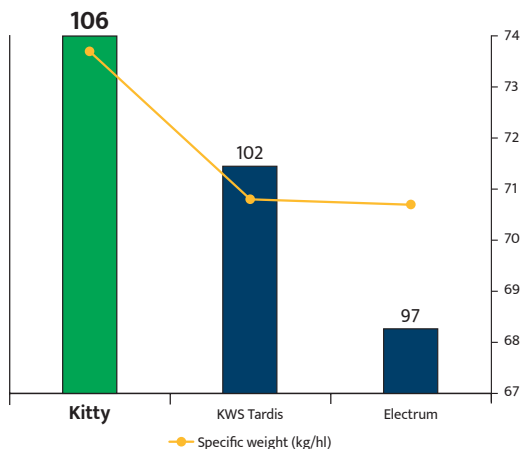
AHDB Winter Barley Recommended List 2024/25

## Kitty is a very high yielding feed barley with an exceptional specific weight and is an RL Candidate for 2024.

Kitty has a very strong performance in all regions and combines this with very stiff straw, low brackling and solid disease resistance. Kitty has the added advantage of resistance to both strain 1 and strain 2 BaYMV, important at a time when strain 2 prevalence is increasing. The grain quality of Kitty is superb, with a specific weight higher than any RL variety. Kitty looks set to be a very popular variety for the UK.

### UK TREATED YIELD

as % C, 10.0 t/ha



### REGIONAL YIELDS

	East (9.6 t/ha)	West (9.5 t/ha)	North (11.4 t/ha)
<b>Kitty</b>	<b>105</b>	<b>[104]</b>	<b>[108]</b>
KWS Tardis	102	[100]	104
Electrum	98	[97]	95

### GRAIN QUALITY

Specific weight (kg/hl) 73.7

### AGRONOMICS

Lodging T % [0]

Lodging UT % [0]

Brackling % 3

Straw length UT (cm) [87]

Ripening (days ± KWS Orwell) [+2]

### DISEASE RESISTANCE

Mildew 6

Brown rust 5

*Rhynchosporium* 6

Net Blotch 6

BaYMV1 and BaMMV R

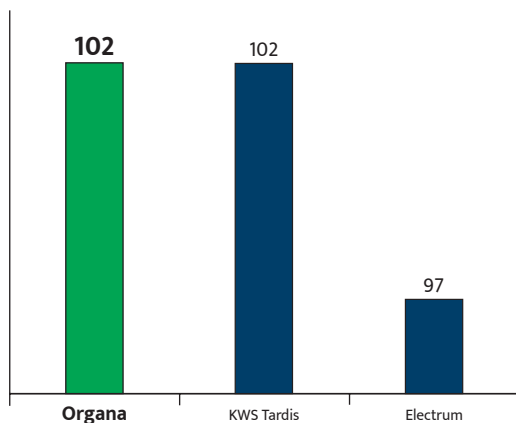
BaYMV2 R

## Organa is a groundbreaking BYDV tolerant, two row feed barley candidate for 2024.

It is a high yielding variety with very stiff straw, low brackling and excellent disease resistance. Organa is a BYDV tolerant two-row barley. There are currently no BYDV tolerant two-rows on the RL. With the loss of chemicals, Organa is an exciting step forward and offers growers all of the attributes of a leading feed barley with the added security of protection from BYDV.

### UK TREATED YIELD

as % C, 10.0 t/ha



### REGIONAL YIELDS

East  
(9.6 t/ha)

West  
(9.5 t/ha)

North  
(11.4 t/ha)

	East (9.6 t/ha)	West (9.5 t/ha)	North (11.4 t/ha)
<b>Organa</b>	<b>103</b>	<b>[102]</b>	<b>[99]</b>
KWS Tardis	102	[100]	104
Electrum	98	[97]	95

### GRAIN QUALITY

Specific weight (kg/hl) 70.0

### AGRONOMICS

Lodging T % [2]

Lodging UT % [0]

Brackling % 18

Straw length T (cm) [104]

Straw length UT (cm) [98]

Ripening (days ± KWS Orwell) [0]

### DISEASE RESISTANCE

Mildew 7

Brown rust 7

*Rhynchosporium* 6

Net Blotch 5

BaYMV1 and BaMMV R

BYDV Tolerance Y

## NOS Olena is a winter barley RL Candidate for 2024.

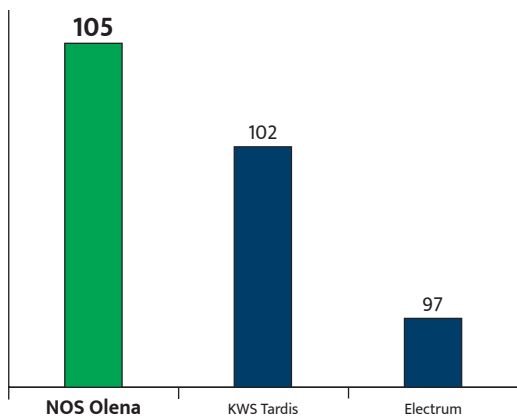
It is a two-row feed variety combining exceptionally high yields with excellent agronomics and very good grain quality.

NOS Olena yields well in all regions of the UK, performing particularly well in the East and North. It has excellent resistance to lodging, low brackling, good resistance to all diseases and medium maturity.

NOS Olena should appeal to growers across the UK.

### UK TREATED YIELD

as % C, 10.0 t/ha



### GRAIN QUALITY

Specific weight (kg/hl) 70.7

### AGRONOMICS

Lodging T % [0]

Lodging UT % [0]

Brackling % 5

Straw length T (cm) [88]

Straw length UT (cm) [85]

Ripening (days ± KWS Orwell) [1]

### REGIONAL YIELDS

East  
(9.6 t/ha)

West  
(9.5 t/ha)

North  
(11.4 t/ha)

NOS Olena	105	[102]	[106]
KWS Tardis	102	[100]	104
Electrum	98	[97]	95

### DISEASE RESISTANCE

Mildew 6

Brown rust 6

*Rhynchosporium* 6

Net Blotch 6

BaYMV1 and BaMMV R

# nos Gambit

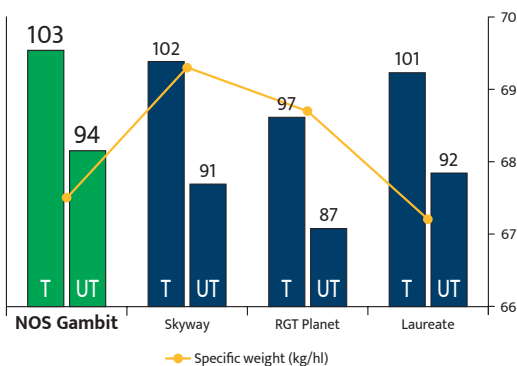
## SPRING BARLEY



**NOS Gambit joins the AHDB RL 2024 as one of the highest yielding malting varieties. It is currently under test by the MBC for brewing.**

It is also commercially available in other European countries, including Scandinavia where it is in testing for Danish Preferred as a candidate. NOS Gambit produces very high yields in all regions of the UK. It has short, stiff straw with excellent brackling resistance and is relatively early to ripen. With excellent grain quality – a high specific weight and very low screenings, NOS Gambit should be a popular choice.

### UK TREATED/UNTREATED YIELDS as % C, 7.8 t/ha



### GRAIN QUALITY

Specific weight (kg/hl)	67.5
Screenings % (<2.25mm)	0.9
Screenings % (<2.5mm)	2.0

### AGRONOMICS

Resistance to lodging (T)	[8]
Straw height (cm)	70
Ripening (days ± RGT Planet)	+1
Resistance to brackling (1-9)	9

### REGIONAL YIELDS

	East (7.9 t/ha)	West (7.4 t/ha)	North (8.2 t/ha)
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<b>NOS Gambit</b>	<b>104</b>	<b>[105]</b>	<b>101</b>
Skyway	103	103	101
Laureate	101	102	100
RGT Planet	97	96	97

### DISEASE RESISTANCE

Mildew	8
Brown rust	5
<i>Rhynchosporium</i>	[6]

### ANNUAL YIELDS

	2021 (8.0 t/ha)	2022 (7.9 t/ha)	2023 (7.5 t/ha)
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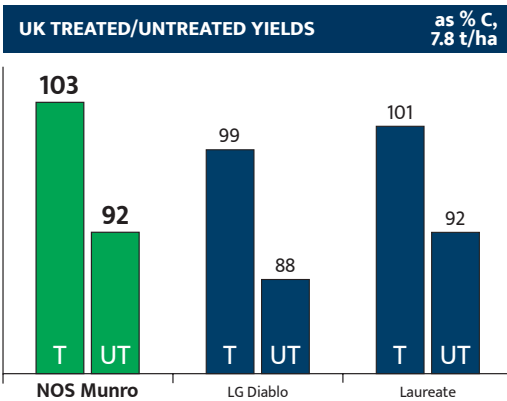
<b>NOS Gambit</b>	<b>103</b>	<b>104</b>	<b>104</b>
Skyway	101	102	102
Laureate	101	101	102
RGT Planet	95	97	96

AHDB Spring Barley Recommended List 2024



## NOS Munro is a new addition to the AHDB spring barley RL 2024.

It is a malting variety, under test for distilling. NOS Munro produces high yields in all regions, with a strong performance in the North. This excellent performance is combined with very good disease resistance, stiff straw and excellent brackling resistance.



REGIONAL YIELDS	East (7.9 t/ha)	West (7.4 t/ha)	North (8.2 t/ha)
<b>NOS Munro</b>	<b>102</b>	<b>[103]</b>	<b>103</b>
LG Diablo	99	98	100
Laureate	101	102	100

ANNUAL YIELDS	2021 (8.0 t/ha)	2022 (7.9 t/ha)	2023 (7.5 t/ha)
<b>NOS Munro</b>	<b>103</b>	<b>103</b>	<b>102</b>
LG Diablo	99	99	99
Laureate	101	101	102

**GRAIN QUALITY**

Specific weight (kg/hl)	65.7
Screenings % (<2.25mm)	2.1
Screenings % (<2.5mm)	6.5
Predicted spirit yield 2018-22	435.6

**AGRONOMICS**

Resistance to lodging (T)	[7]
Straw height (cm)	73
Ripening (days ± RGT Planet)	+2
Resistance to brackling (1-9)	8

**DISEASE RESISTANCE**

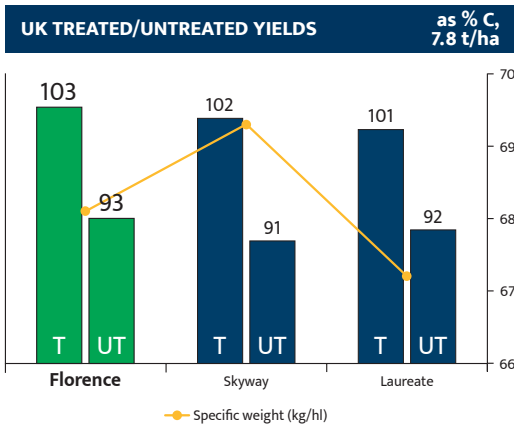
Mildew	8
Brown rust	5
<i>Rhynchosporium</i>	[5]

AHDB Spring Barley Recommended List 2024

# SPRING BARLEY Florence

## Florence is a very high yielding feed spring barley with yields above all malting barleys.

Florence is in tests and trials in several European countries. With yield advantages across all UK regions over the market leading varieties, combined with superb brackling and lodging resistance, early ripening, very good disease resistance and excellent grain quality, Florence will be in demand.



REGIONAL YIELDS	East (7.9 t/ha)	West (7.4 t/ha)	North (8.2 t/ha)
<b>Florence</b>	<b>103</b>	<b>103</b>	<b>102</b>
Skyway	103	103	101
Laureate	101	102	100

ANNUAL YIELDS	2021 (8.0 t/ha)	2022 (7.9 t/ha)	2023 (7.5 t/ha)
<b>Florence</b>	<b>105</b>	<b>102</b>	<b>102</b>
Skyway	101	102	102
Laureate	101	101	102

### GRAIN QUALITY

Specific weight (kg/hl)	68.1
Screenings % (<2.25mm)	1.1
Screenings % (<2.5mm)	3.1

### AGRONOMICS

Resistance to lodging (no PGR)	[8]
Straw height (cm)	70
Ripening (days ± RGT Planet)	0
Resistance to brackling (1-9)	9

### DISEASE RESISTANCE

Mildew	[8]
Brown rust	5
<i>Rhynchosporium</i>	5

AHDB Spring Barley RL Trials 2023, no longer listed

# Mascani

## WINTER OAT

AHDB  
RECOMMENDED

• No 1 UK winter oat variety

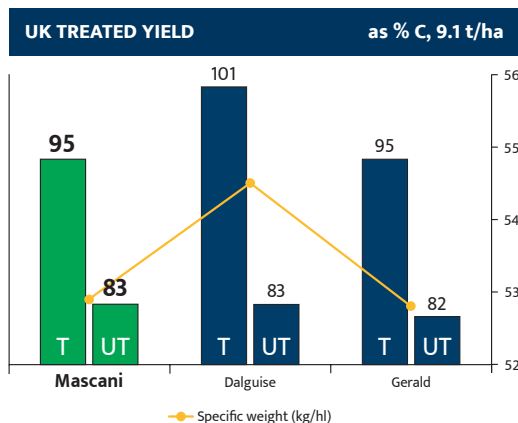
• Superb grain quality

• Large grains

**Mascani is the most widely grown winter oat in the UK, and is well established as the favourite of millers and growers alike.**

It is a stiff strawed variety with excellent resistance to mildew and good resistance to crown rust.

With its exceptionally high kernel content, excellent specific weight, large grains and low screening losses, Mascani remains the leading top quality milling variety.



### GRAIN QUALITY

Kernel content (%)	75.3
Specific weight (kg/hl)	52.9
Screenings % (<2.0mm)	2.0
Kernel colour	yellow

### AGRONOMICS

Resistance to lodging (1-9)	7
Straw length without PGR (cm)	125
Ripening (days ± Mascani)	0

### DISEASE RESISTANCE

Mildew	6
Crown rust	5

AHDB Winter Oat Recommended List 2024/25

# Cromwell

## WINTER OAT

AHDB  
RECOMMENDED

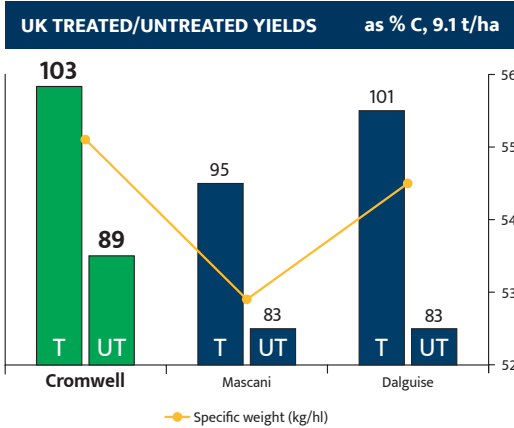
**Cromwell is an exciting winter husked oat with great potential for the milling markets. It is a Mascani cross but produces significantly higher yields.**

Cromwell combines all of the attributes desired by the millers – high yields, excellent kernel content and specific weight, high hullability and acceptable screening losses. With the added benefit of short, exceptionally stiff straw, Cromwell is a very promising variety and milling feedback continues to be incredibly positive.

• High yielding milling oat

• Excellent grain quality

• Stiff straw



### GRAIN QUALITY

Kernel content (%)	74.7
Specific weight (kg/hl)	55.1
Screenings % (<2.0mm)	4.8
Kernel colour	white

### AGRONOMICS

Resistance to lodging (1-9)	[9]
Straw length without PGR (cm)	106
Ripening (days ± Mascani)	0

### DISEASE RESISTANCE

Mildew	3
Crown rust	5

AHDB Winter Oat Recommended List 2024/25

# Valentine

## WINTER OAT

AHDB  
CANDIDATE

### Valentine is a new AHDB year 4 candidate for 2024.

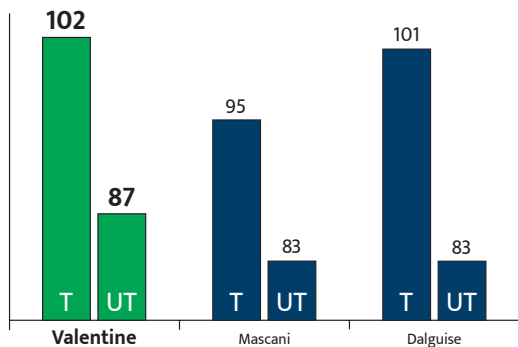
It produces high yields and is early to ripen. Valentine has good disease resistance, particularly to mildew. It stands well with taller straw. Valentine has good grain quality, with a high kernel content, good hullability and low screening losses.

• High yielding milling oat

• Excellent grain quality

• Early to ripen

#### UK TREATED/UNTREATED YIELDS as % C, 9.1 t/ha



#### GRAIN QUALITY

Kernel content (%)	73.3
Specific weight (kg/hl)	50.3
Screenings % (<2.0mm)	3.4
Kernel colour	white

#### AGRONOMICS

Resistance to lodging (1-9)	-
Straw length without PGR (cm)	[127]
Ripening (days ± Mascani)	-1

#### DISEASE RESISTANCE

Mildew	7
Crown rust	[4]

AHDB Winter Oat RL 2024/25 (online only)

# Dalguise

## WINTER OAT

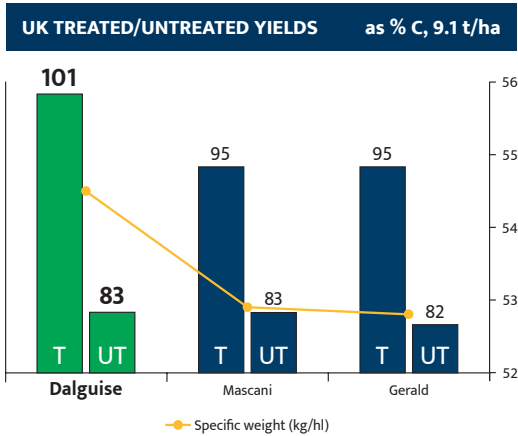
### Dalguise is a high yielding, consistent variety.

The excellent specific weight, high kernel content and early maturity of Dalguise continue to ensure its popularity on farm and with the millers.

• Popular, consistent variety

• Early maturity

• Good grain quality



### GRAIN QUALITY

Kernel content (%)	72.6
Specific weight (kg/hl)	54.5
Screenings % (<2.0mm)	3.3
Kernel colour	white

### AGRONOMICS

Resistance to lodging (1-9)	4
Straw length without PGR (cm)	131
Ripening (days ± Mascani)	-1

### DISEASE RESISTANCE

Mildew	4
Crown rust	4

AHDB Winter Oat Recommended List 2024/25

# Zenith

## SPRING OAT

### Zenith is a high yielding, husked milling spring oat.

It has consistently produced exceptionally high yields, above all RL varieties. This performance is combined with a high kernel content and low screenings losses, very early ripening and good mildew resistance.

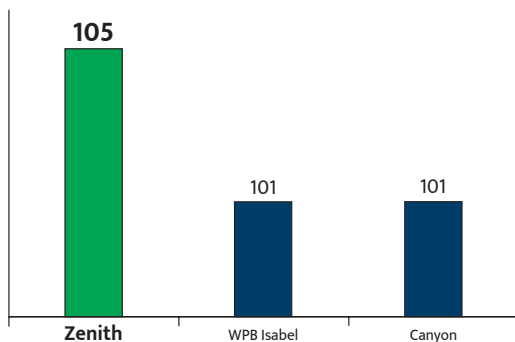
- Exceptionally high yields

- Early to ripen

- High kernel content

#### UK TREATED YIELD

as % C, 7.3 t/ha



#### GRAIN QUALITY

Kernel content (%)	73.0
Specific weight (kg/hl)	49.8
Screenings % (<2.0mm)	2.9

#### AGRONOMICS

Resistance to lodging (1-9)	[6]
Straw length (cm)	107
Ripening (days ± WPB Isabel)	-2

#### ANNUAL YIELDS

Zenith

WPB Isabel

Canyon

2020 (6.2 t/ha)	[108]	[102]	[103]
2021 (7.8 t/ha)	[105]	[102]	[101]
2022 (7.9 t/ha)	[105]	[100]	[101]
2023 (7.4 t/ha)	[102]	[103]	[98]

#### DISEASE RESISTANCE

Mildew	4
Crown rust	[6]

AHDB Spring Oat RL 2024, varieties not added

# Aspen

## SPRING OAT



**Aspen is an established, high yielding spring oat variety.**

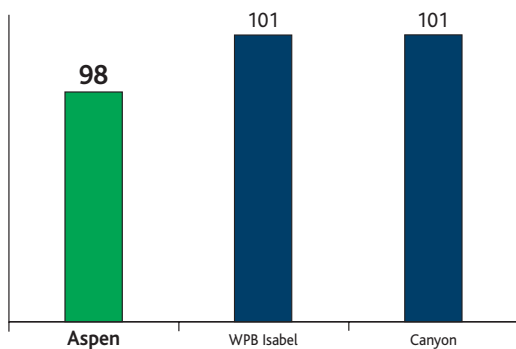
It has shorter, stiff straw, early ripening and good grain quality. Aspen remains a popular variety with growers.

- Early to ripen

- High yields

- Good grain quality

### UK TREATED YIELD as % C, 7.3 t/ha



### GRAIN QUALITY

Kernel content (%)	72.1
Specific weight (kg/hl)	50.4
Screenings % (<2.0mm)	2.6

### AGRONOMICS

Resistance to lodging (1-9)	7
Straw length (cm)	100
Ripening (days $\pm$ WPB Isabel)	-1

### DISEASE RESISTANCE

Mildew	4
Crown rust	5

AHDB Spring Oat Recommended List 2024, varieties not added - RT control



# Conway

## Spring Oat

AHDB  
RECOMMENDED

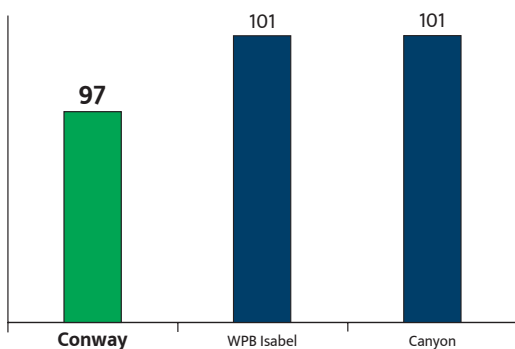
Conway is a spring husked oat producing consistent yields, with good disease resistance, excellent resistance to lodging and early ripening.

Conway has a good kernel content and specific weight and its grain quality and on-farm performance has given it market appeal.

• Superb grain quality

• Very stiff straw

### UK TREATED YIELD as % C, 7.3 t/ha



### GRAIN QUALITY

Kernel content (%)	71.7
Specific weight (kg/hl)	49.1
Screenings % (<2.0mm)	2.6

### AGRONOMICS

Resistance to lodging (1-9)	7
Straw length (cm)	103
Ripening (days ± WPB Isabel)	-1

### DISEASE RESISTANCE

Mildew	6
Crown rust	4

AHDB Spring Oat Recommended List 2024

# Lumaco

## WINTER TRITICALE

**Lumaco is the highest yielding triticale variety on the AHDB DL. It combines this superb performance with taller but stiff straw, early ripening and a very high specific weight. Lumaco has a 9 rating for yellow rust resistance and will be a popular choice in the market going forward.**

• Highest yielding DL variety

• Superb yellow rust resistance

• Early to ripen

• Excellent specific weight

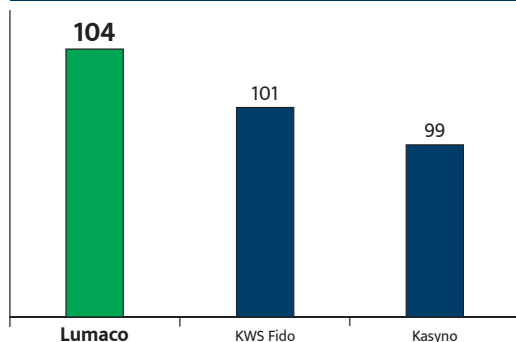
The performance of triticale in a second cereal situation has for many years been underestimated. Interest is now increasing on farm in this flexible, high yielding crop. Second cereal yields on farm can compare favourably with other crops, including wheat.

A principle market for triticale is for grain and for on farm feeding. There is an expanding market in anaerobic digestion, where triticale's low costs, ease of management and dry matter yields are attractive. Senova's leading varieties are proving popular for AD plants.

Triticale is also well suited for bioethanol production, with its inherently high fermentable carbohydrates and soluble proteins. In addition, triticale is very productive in NVZs and under lower input systems.

### UK TREATED YIELD

as % C, 10.7 t/ha



### GRAIN QUALITY

Specific weight (kg/hl)	73.4
Protein content %	10.8

### AGRONOMICS

Lodging %	[6]
Straw length (cm)	121
Ripening (days ± KWS Fido)	-1

### DISEASE RESISTANCE

Yellow rust	9
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AHDB Winter Triticale Descriptive List 2024/25

# KWS Fido

## WINTER TRITICALE

**KWS Fido remains the leading UK triticale variety. It is high yielding with taller, but stiff straw. KWS Fido is early to ripen and has a superb specific weight. The excellent performance and superb agronomics make KWS Fido the perfect choice for the second cereal slot on farm.**

• **Leading UK variety**

• **Stiff, taller straw**

• **Early to ripen**

• **Excellent specific weight**

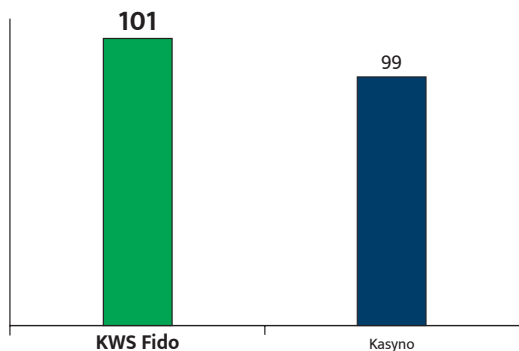
The performance of triticale in a second cereal situation has for many years been underestimated. Interest is now increasing on farm in this flexible, high yielding crop. Second cereal yields on farm can compare favourably with other crops, including wheat.

A principle market for triticale is for grain and for on farm feeding. There is an expanding market in anaerobic digestion, where triticale's low costs, ease of management and dry matter yields are attractive. Senova's leading varieties are proving popular for AD plants.

Triticale is also well suited for bioethanol production, with its inherently high fermentable carbohydrates and soluble proteins. In addition, triticale is very productive in NVZs and under lower input systems.

### UK TREATED YIELD

as % C, 10.7 t/ha



### GRAIN QUALITY

Specific weight (kg/hl)	73.8
Protein content %	10.4

### AGRONOMICS

Lodging %	[0]
Straw length (cm)	115
Ripening (days ± KWS Fido)	0

### DISEASE RESISTANCE

Yellow rust	6
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AHDB Winter Triticale Descriptive List 2024/25

# Kasyno

## WINTER TRITICALE

**Kasyno is a high yielding, consistent variety. It is a short, stiff-strawed attractive variety, finishing well in the field. This combination of consistent yields and excellent standing power make Kasyno suitable for all soil types to maximise performance. Kasyno has excellent resistance to yellow rust and a high specific weight.**

• Superb yields

• Short, stiff straw

• Superb yellow rust resistance

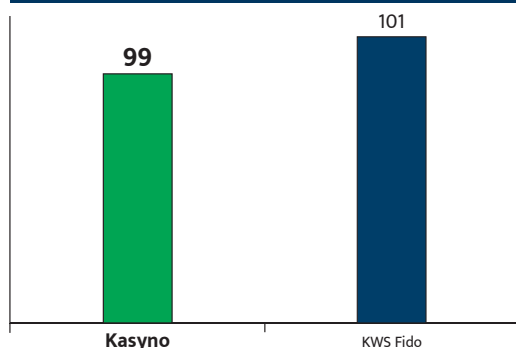
The performance of triticale in a second cereal situation has for many years been underestimated. Interest is now increasing on farm in this flexible, high yielding crop. Second cereal yields on farm can compare favourably with other crops, including wheat.

A principle market for triticale is for grain and for on farm feeding. There is an expanding market in anaerobic digestion, where triticale's low costs, ease of management and dry matter yields are attractive. Senova's leading varieties are proving popular for AD plants.

Triticale is also well suited for bioethanol production, with its inherently high fermentable carbohydrates and soluble proteins. In addition, triticale is very productive in NVZs and under lower input systems.

### UK TREATED YIELD

as % C, 10.7 t/ha



### GRAIN QUALITY

Specific weight (kg/hl)	71.9
Protein content %	10.9

### AGRONOMICS

Lodging %	[2]
Straw length (cm)	104
Ripening (days ± KWS Fido)	+2

### DISEASE RESISTANCE

Yellow rust	8
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AHDB Winter Triticale Descriptive List 2024/25

# Astranos

## WINTER HYBRID RYE

**Astranos joins the AHDB DL 2024/25 as the joint highest yielding variety.**

It has an excellent agronomic package, showing good resistance to lodging and early ripening similar to most varieties. Astranos has a high specific weight. It is the first hybrid rye from Senova and is a dual purpose variety, offering potential for use in both the grain and wholecrop markets.

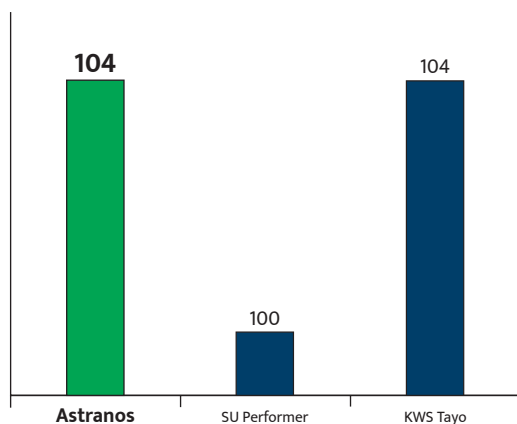
• Joint highest yielding variety on DL

• Stiff straw

• Excellent specific weight

### UK TREATED YIELD

as % C, 10.2 t/ha



### GRAIN QUALITY

Specific weight (kg/hl)	77.0
Protein content %	9.6

### AGRONOMICS

Resistance to lodging (1-9)	[8]
Straw length (cm)	[130]
Ripening (days ± SU Performer)	0

### DISEASE RESISTANCE

Brown rust	[3]
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AHDB Winter Rye Descriptive List 2024/25

# Kameleon

## FIELD PEA



**Kameleon remains the market leader, producing very high yields.**

It is a yellow pea with large, bold grains and is suitable for use in animal feed and for human consumption for split peas. With exceptional yields, good standing ability and early maturity, Kameleon remains the leading yellow pea and a very popular variety..

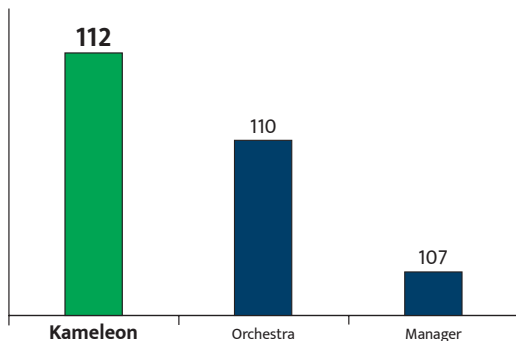
• Very high yielding yellow pea

• Early to ripen

• Good standing ability

### UK TREATED YIELD

as % C, 3.81 t/ha



### AGRONOMICS

Earliness of maturity (1-9)	6
Straw length (cm)	74
Standing ability at harvest (1-9)	7

### DISEASE RESISTANCE

Pea wilt (Race 1)	R
Downy mildew (1-9)	5
Powdery mildew	[S]

### ANNUAL YIELDS

2019 (5.06 t/ha)	118
2020 (2.99 t/ha)	116
2021 (4.28 t/ha)	106
2022 (3.70 t/ha)	111
2023 (3.08 t/ha)	109

### QUALITY

1000 seed weight (g)	304
Protein content (% dry)	21.8

PGRO Descriptive List 2024

# Batist

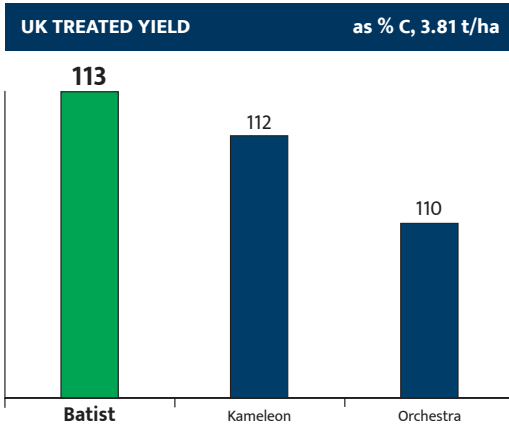
## FIELD PEA



- Very high yielding yellow pea
- Early to ripen
- Good standing ability

### Batist is a new addition to the PGRO DL 2024.

It is a very high yielding yellow pea with large grains. Batist has taller, but stiff straw, is early to mature and has good resistance to downy mildew. It is suitable for animal feed and human consumption.



**AGRONOMICS**

Earliness of maturity (1-9)	6
Straw length (cm)	85
Standing ability at harvest (1-9)	7

**DISEASE RESISTANCE**

Pea wilt (Race 1)	R
Downy mildew (1-9)	6
Powdery mildew	[S]

**ANNUAL YIELDS**

2021 (4.28 t/ha)	108
2022 (3.70 t/ha)	117
2023 (3.08 t/ha)	114

**QUALITY**

1000 seed weight (g)	304
Protein content (% dry)	21.6

PGRO Descriptive List 2024

# Karioka

## FIELD PEA



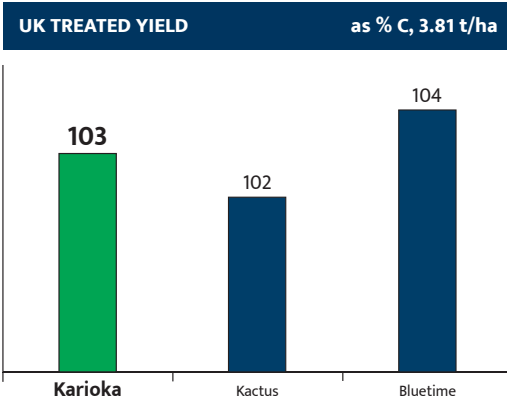
• High yielding green pea

• Early to ripen

• Excellent disease resistance

**Karioka is a leading, high yielding green pea variety.**

Karioka is a taller variety with good standing ability, is relatively early to ripen and has very good resistance to downy mildew and pea wilt.



**ANNUAL YIELDS**

2019 (5.06 t/ha)	105
2020 (2.99 t/ha)	100
2021 (4.28 t/ha)	111
2022 (3.70 t/ha)	95
2023 (3.08 t/ha)	99

**AGRONOMICS**

Earliness of maturity (1-9)	6
Straw length (cm)	84
Standing ability at harvest (1-9)	7

**DISEASE RESISTANCE**

Pea wilt (Race 1)	R
Downy mildew (1-9)	7
Powdery mildew	[S]

**QUALITY**

1000 seed weight (g)	259
Protein content (% dry)	22.2

PGRO Descriptive List 2024



# Kactus

## FIELD PEA



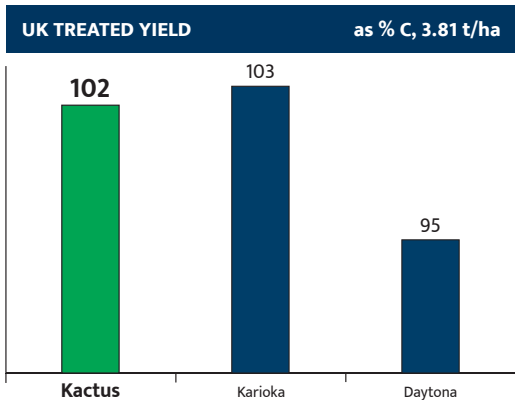
**Kactus is a high yielding green pea with excellent disease resistance.**

Kactus has good standing ability and superb downy mildew resistance and remains popular in the market.

• High yielding green pea

• Excellent standing ability

• Superb downy mildew resistance



### AGRONOMICS

Earliness of maturity (1-9)	5
Straw length (cm)	76
Standing ability at harvest (1-9)	7

### DISEASE RESISTANCE

Pea wilt (Race 1)	R
Downy mildew (1-9)	7
Powdery mildew	[S]

### ANNUAL YIELDS

2019 (5.06 t/ha)	108
2020 (2.99 t/ha)	108
2021 (4.28 t/ha)	100
2022 (3.70 t/ha)	95
2023 (3.08 t/ha)	99

### QUALITY

1000 seed weight (g)	289
Protein content (% dry)	21.9

PGRO Descriptive List 2024



# VESPA

## Winter Bean



**Vespa remains the market leader and the highest yielding variety on the PGRO winter bean DL, some 16% ahead of Tundra.**

It has short straw with good standing ability, a large seed size and excellent resistance to diseases. Vespa is firmly established as the market leader with over 70% of the winter bean market and is well accepted for the feed and export market.

• Market leader

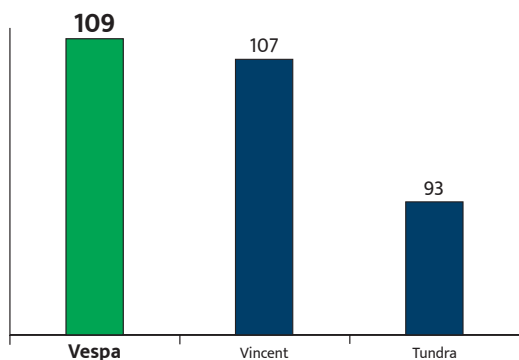
• Highest yielding variety

• Large seed size and pale hilum

• Short, stiff straw

### UK TREATED YIELD

as % C, 4.4 t/ha



### AGRONOMICS

Flower colour	C
Earliness of maturity (1-9)	5
Straw length (cm)	113
Standing ability at harvest (1-9)	8

### DISEASE RESISTANCE

Downy mildew (1-9)	5
Rust (1-9)	5
Chocolate spot (1-9)	7

### ANNUAL YIELDS

2019 (5.55 t/ha)	108
2020 (2.82 t/ha)	113
2021 (5.29 t/ha)	113
2022 (4.58 t/ha)	110
2023 (3.69 t/ha)	99

### QUALITY

1000 seed weight (g)	675
Protein content (% dry)	25.4

PGRO Descriptive List 2024



# Vincent

WINTER BEAN



**Vincent is a high yielding, large seeded variety with a high protein content.**

Vincent shows good resistance to downy mildew and chocolate spot. It has a pale hilum, exceptionally large seed and a very high protein content, which should ensure its popularity for feed and export markets.

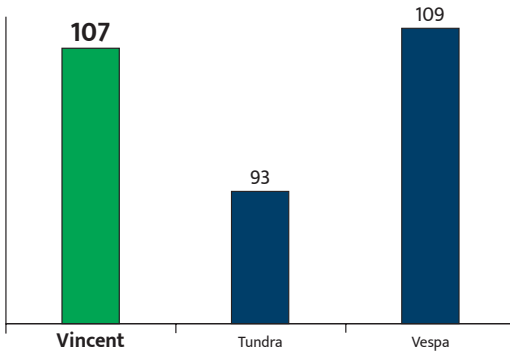
• Very high yields

• Exceptional seed size

• Very good standing ability

### UK TREATED YIELD

as % C, 4.4 t/ha



### AGRONOMICS

Flower colour	C
Earliness of maturity (1-9)	5
Straw length (cm)	114
Standing ability at harvest (1-9)	8

### DISEASE RESISTANCE

Downy mildew (1-9)	6
Rust (1-9)	4
Chocolate spot (1-9)	6

### ANNUAL YIELDS

2019 (5.55 t/ha)	107
2020 (2.82 t/ha)	112
2021 (5.29 t/ha)	103
2022 (4.58 t/ha)	110
2023 (3.69 t/ha)	106

### QUALITY

1000 seed weight (g)	779
Protein content (% dry)	26.8

PGRO Descriptive List 2024

# Norton

## WINTER BEAN



**Norton is a high yielding relatively early ripening variety, with yields higher than Tundra and other early varieties.**

With shorter straw, excellent standing ability and early maturity Norton is suited to higher fertility, wetter areas of the UK. Its large seed size, very good protein content and pale hilum should make it a popular choice for home markets and export.

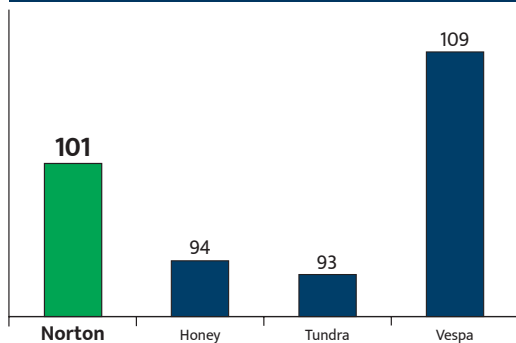
• Early to mature

• Excellent standing ability

• Large seed size

### UK TREATED YIELD

as % C, 4.4 t/ha



### ANNUAL YIELDS

2019 (5.55 t/ha)	105
2020 (2.82 t/ha)	104
2021 (5.29 t/ha)	91
2022 (4.58 t/ha)	100
2023 (3.69 t/ha)	107

### AGRONOMICS

Flower colour	C
Earliness of maturity (1-9)	6
Straw length (cm)	109
Standing ability at harvest (1-9)	8

### DISEASE RESISTANCE

Downy mildew (1-9)	6
Rust (1-9)	5
Chocolate spot (1-9)	5

### QUALITY

1000 seed weight (g)	666
Protein content (% dry)	25.6

PGRO Descriptive List 2024

# Ninja

## WINTER BEAN



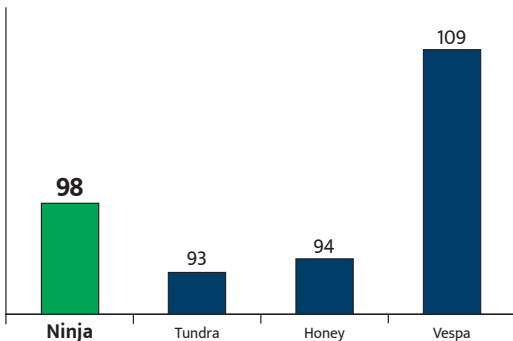
- Very early to ripen
- Short, very stiff variety
- Highest protein content on DL

### Ninja joins the new PGRO DL 2024.

It is a shorter variety with excellent standing ability and the earliest maturity on the PGRO DL. Ninja produces higher yields than Tundra and other early varieties and we believe its yield potential is higher. It is a strong choice for higher fertility, wetter areas of the UK.

Ninja has the highest protein content on the DL and large seed and should prove popular for all markets.

### UK TREATED YIELD as % C, 4.4 t/ha



### ANNUAL YIELDS

2020 (2.82 t/ha)	101
2021 (5.29 t/ha)	90
2022 (4.58 t/ha)	*
2023 (3.69 t/ha)	106

\* Variety not in trial

### AGRONOMICS

Flower colour	C
Earliness of maturity (1-9)	8
Straw length (cm)	105
Standing ability at harvest (1-9)	8

### DISEASE RESISTANCE

Downy mildew (1-9)	4
Rust (1-9)	5
Chocolate spot (1-9)	5

### QUALITY

1000 seed weight (g)	623
Protein content (% dry)	27.3

PGRO Descriptive List 2024

# Bonneville

## WINTER BEAN



**Bonneville is a large seeded variety with good protein content and excellent standing ability.**

It has produced good yields, is similar in height to Vespa, stands exceptionally well and is relatively early to mature. Bonneville has large seed and a good protein content. It offers more choice to the grower.

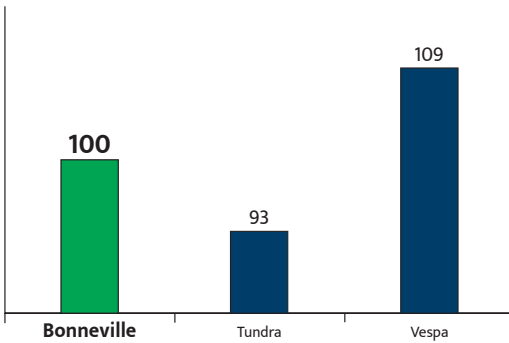
- Excellent standing ability

- Very large seed

- Good protein content

### UK TREATED YIELD

as % C, 4.4 t/ha



### ANNUAL YIELDS

2020 (2.82 t/ha)	106
2021 (5.29 t/ha)	101
2022 (4.58 t/ha)	96
2023 (3.69 t/ha)	99

### AGRONOMICS

Flower colour	C
Earliness of maturity (1-9)	6
Straw length (cm)	113
Standing ability at harvest (1-9)	8

### DISEASE RESISTANCE

Downy mildew (1-9)	5
Rust (1-9)	4
Chocolate spot (1-9)	5

### QUALITY

1000 seed weight (g)	703
Protein content (% dry)	25.8

PGRO Descriptive List 2024

# Bumble



WINTER BEAN



**Bumble is a high yielding, pale hilum winter bean with longer straw but good standing ability.**

Like leading variety Vespa, Bumble has large grain and a pale hilum and is suitable for export, for splitting and falafel, as well as for the feed market.

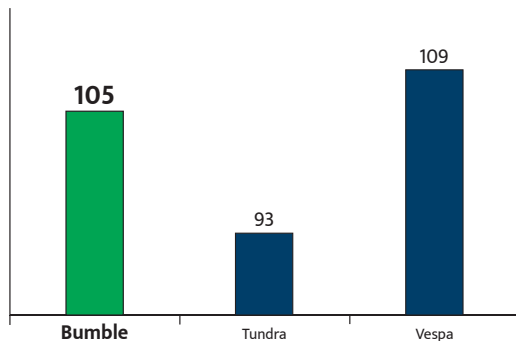
• High yielding winter bean

• Large seed size

• Good standing ability

## UK TREATED YIELD

as % C, 4.4 t/ha



## ANNUAL YIELDS

2019 (5.55 t/ha)	98
2020 (2.82 t/ha)	111
2021 (5.29 t/ha)	105
2022 (4.58 t/ha)	102
2023 (3.69 t/ha)	114

## AGRONOMICS

Flower colour	C
Earliness of maturity (1-9)	5
Straw length (cm)	118
Standing ability at harvest (1-9)	8

## DISEASE RESISTANCE

Downy mildew (1-9)	5
Rust (1-9)	5
Chocolate spot (1-9)	5

## QUALITY

1000 seed weight (g)	671
Protein content (% dry)	25.0

PGRO Descriptive List 2024

# Navara

## SPRING BEAN



• Very high yields

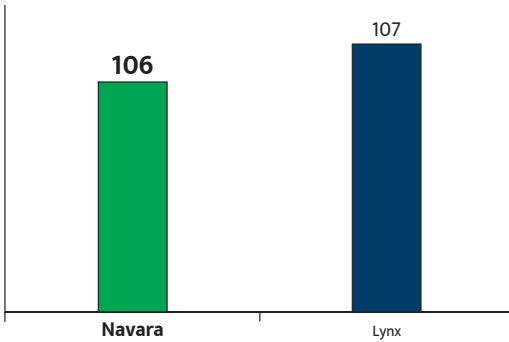
• Good standing ability

### Navara is new to the PGRO spring bean DL 2024.

It has an attractive package of high yields, solid agronomics, pale hilum and the good seed size desired by the markets. With excellent standing ability and good resistance to downy mildew and rust, Navara should be a popular new choice for feed and export markets.

#### UK TREATED YIELD

as % C, 4.27 t/ha



#### AGRONOMICS

Flower colour	C
Earliness of maturity (1-9)	5
Straw length (cm)	109
Standing ability at harvest (1-9)	8

#### DISEASE RESISTANCE

Downy mildew (1-9)	5
Rust (1-9)	[6]*

#### ANNUAL YIELDS

2021 (5.29 t/ha)	107
2022 (3.76 t/ha)	108
2023 (3.64 t/ha)	104

#### QUALITY

1000 seed weight (g)	552
Protein content (% dry)	26.2

PGRO Descriptive List 2024

\* rust data mostly influenced by four sites in 2020



# Fergus

## SPRING OILSEED RAPE

**Fergus is the only conventional spring oilseed rape on the AHDB DL 2024.**

It combines good yields with a very high oil content, the best on the DL.

Fergus is short and stiff with medium maturity.

### GROSS OUTPUT

Gross Output (no fungicide) (3.2 t/ha)	[96]
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### SEED QUALITY

Oil content %	[45.1]
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### SEED YIELD

Seed Yield (no fungicide) (3.0 t/ha)	[95]
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### AGRONOMICS

Shortness of stem (1-9)	7
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Earliness of flowering (1-9)	[7]
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Earliness of maturity (1-9)	[5]
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### ANNUAL YIELDS

2019 (3.8 t/ha)	[[91]]
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2020 (3.0 t/ha)	[101]
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2021 (2.3 t/ha)	[104]
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2022 (4.7 t/ha)	[[88]]
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2023 (2.9 t/ha)	[[93]]
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AHDB Spring Oilseed Rape Descriptive List 2024

[[ ]] 1 trial only

# ABACUS

## SPRING LINSEED

### Abacus spring linseed combines early maturity with good on farm seed yields.

The basis for its yield comes from an intense and prolonged flowering period. Abacus shows excellent resistance to the onset of powdery mildew and is suitable for all areas and conditions. The vigorous lateral branching of Abacus interlocks to provide a self-supporting canopy, with good standing power and even maturity to facilitate combining.

Abacus is a medium height, white flowered variety, which produces medium-small brown seeds.

#### SEED YIELD

UK Untreated Yield (2.1 t/ha)	94
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#### SEED QUALITY

Oil content %	40.2
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#### ANNUAL YIELDS

2019 (2.2 t/ha)	[92]
-----------------	------

2020 (2.7 t/ha)	[95]
-----------------	------

2021 (2.1 t/ha)	[98]
-----------------	------

2022 (2.0 t/ha)	[90]
-----------------	------

2023 (1.7 t/ha)	[94]
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#### AGRONOMICS

Plant height (cm)	49
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Earliness of flowering (1-9)	5
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Earliness of maturity (1-9)	7
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AHDB Spring Linseed Descriptive List 2024



## Creating a real buzz!

With the highest yields on the PGRO Descriptive List, excellent standing ability and large grain, market leader **Vespa** is the perfect choice for your rotation and the feed and export markets.

SCAN ME



## Making the right impression!

New variety **Vincent** brings high yields, exceptionally large grain, a high protein content and excellent downy mildew resistance. It looks set to be a popular choice.

SCAN ME



Senova is a private, independent company with seed marketing and crop development at its core. We are proud of our innovative approach, market knowledge and understanding. The Senova team remains small and personal and is highly motivated with an enthusiasm to succeed.

As representatives for breeders, the Senova portfolio is diverse. We are eager to engage directly with our customers and stakeholders to form meaningful and sustainable relationships. Maintaining customer satisfaction and the pursuit of new market opportunities have been, and remain, key to our business.

## SEED GROWERS WANTED

Our expanding portfolio means that we are always interested to hear from growers contemplating seed contracting of combinable crops.



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