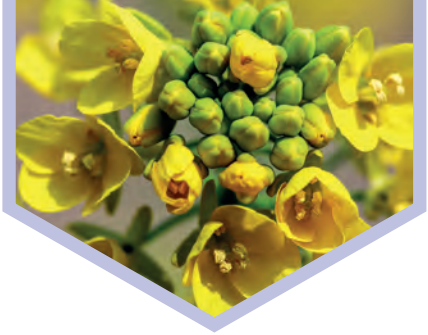
HUTCHINSONS

Crop Production Specialists

Seed & Varieties

INFORMATION BOOK 2024



Contents

Message
from the Seed Team

"Having experienced extreme weather patterns and a pandemic in the last two years" was the opening line last year... The pandemic duly receded; however, our weather patterns and changeable climate remain as fickle as ever. In fact, when the heavens opened in November 2023, we didn't foresee that they would still be in full flow in January of this year!

The adverse conditions strongly suggest that seed crops will be challenged both in terms of volume and in what was indeed planted at all. Therefore, ordering of new key varieties is something that will potentially need an earlier focus for the autumn of 2024.

The oilseed rape market dipped back in 2023 as both end market pricing and the all too familiar flea beetle challenge impacted sharply. Achieving fullest establishment is still paramount and ensuring that conditions are appropriate at the time of planting.

The key OSR traits should remain Hybrid, TuYV resistance, Pod Shatter resistance, robust disease scores and vigour. All can be found within the hybrid portfolio on offer, with our key offer of **LG Academic** ticking the boxes (**KWS Hinsta** which is a candidate for this autumn also offers similar potential and there are only 300 packs for this coming season). The offer for conventional varieties will also remain essential, with this market having decreased again last autumn but still very much key to many growers given the preference for home saving.

New genetics mean that Barley Yellow Dwarf Virus (BYDV) tolerant hybrid barley is available commercially for autumn 2024 in the guise of **SY Harrier** and candidate variety **SY Kestrel**. Circa 30% will continue to be the likely Hyvido market share. Of the conventional 2-row barleys, note should be taken of **LG Capitol**, newly recommended last autumn, which has yield to match the best Hyvido varieties and in the East outperforms both Hyvido and conventional barley - its grain quality is excellent too, reducing risk at end user destinations.

As far as BYDV management is concerned, then it should be considered in the form of **RGT Grouse**, which offers the potential to be insecticide free with both BYDV and Orange Wheat Blossom Midge (OWBM) resistance.

Crusoe and **RGT Illustrious** will remain the millers' preferred quality options in the wheat market, with both reasonably tight in the marketplace. However, **SY Cheer** is a newly recommended Group 1 with far superior disease resistance to its contemporaries within the sector, which at time of writing is awaiting full miller support. On the back of a very successful introduction of **KWS Dawsum** (19% of UK wheat market) and **Champion** in 2022, **LG Beowulf** sets the new benchmark for hard Group 4's with excellent Yellow Rust resistance and OWBM packaged together. It also stands well and is significantly higher yielding in the North. A candidate from 2023 worth noting is **Bamford**, which is now fully recommended in the group 3 sector, with a step change in yield within the sector coupled with multiple end user options.

We would strongly advise that if you wish to engage specifically with either Beowulf and Bamford, that you do so sooner rather than later to secure your required volume. The same would be true of varieties that have shrinking market shares but still work well individually for you.

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LG Academic

With a realistic view of the OSR market perhaps reaching no more 300,000ha in the autumn of 2024, given appropriate growing conditions at time of drilling and of course a grain market that supports the venture, then the need to find ideal varieties that suit both region and soil types is key. For this purpose, we are highlighting the newly recommended variety on the AHDB list with huge potential for this year which is LG Academic.

With this universal ability to perform across the regions, coupled with RLM 7+ Phoma resistance, Academic has very decent light leaf spot resistance coupled with TuYV which is now a key consideration in oilseed rape and the addition of pod shatter resistance.

LG Academic can be the early drilled and mainstream option (but also very comfortable first half September), or indeed later if the soils remain warm and there is moisture to utilise. We would have no concern if drilled up to mid-September. The variety possesses excellent autumn and spring vigour, enabling good establishment and the ability to grow away post winter.

If OSR is a key part of your rotation or purely an *academic* proposition at present, then there is no doubt that as far as varietal choice is concerned, LG Academic should be a key part of that crop portfolio for autumn 2024.

AHDB RECOMMENDED

NEW

	LG Aviron	LG Academic
Variety type	Hybrid	Hybrid
Scope of recommendation	UK	UK
Gross output, yield adjusted for oil content (% TREATED CONTROL)		
United Kingdom (5.3 t/ha)	102	106
East/West region (5.2 t/ha)	102	106
North region (5.9 t/ha)	103	107
Seed yield (% treated control) (% TREATED CONTROL)		
United Kingdom (4.9 t/ha)	103	106
East/West region (4.8 t/ha)	103	106
North region (5.4 t/ha)	104	107
United Kingdom (5.4 t/ha)	-	-
United Kingdom (5.0 t/ha)	-	-
Agronomic features		
Resistance to lodging (1–9)	[7.8]	[7.9]
Stem stiffness (1–9)	7	8
Shortness of stem (1–9)	6	5
Plant height (cm)	147	152
Earliness of flowering (1–9)	8	7
Earliness of maturity (1–9)	6	5
Pod shatter resistance	R	R
Disease resistance		
Light leaf spot (1–9)	7	7
Stem canker (1–9)	6	6
TuYV	R	R
Oil Content, fungicide-treated %		
	44.4	45.2

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RECOMMENDED LIST CHART PAGES 44 - 45

Oilseed Rape

Variety Notes 2024

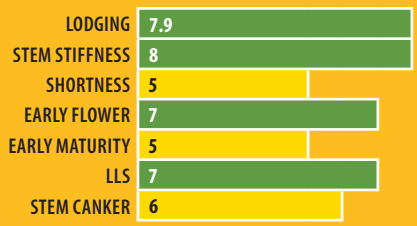
LG ACADEMIC
WINTER OILSEED RAPE

LIMAGRAIN

RESTORED HYBRID

Gross Output: 106 (UK) • Oil content: 45.2
TuYV resistant • Recommended for UK

- **NEW** - A restored hybrid variety, recommended for the UK for 2024
- Pod shatter resistance



- VERY HIGH output variety with TuYV resistance
- Excellent standing ability
- Performs across the UK.

HUTCHINSONS RECOMMENDED

NEW

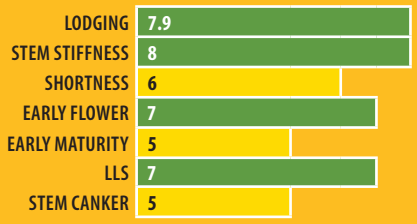
LG ATTICA
WINTER OILSEED RAPE

LIMAGRAIN

RESTORED HYBRID

Gross Output: 105 (UK) • Oil content: 45.3
TuYV resistant • Recommended for UK

- A restored hybrid variety, first recommended for the UK in 2023



- Pod shatter resistance
- High gross output variety with TuYV resistance.

HUTCHINSONS RECOMMENDED

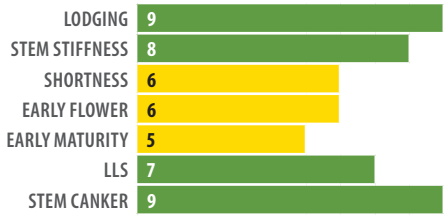
MAVERICK

LSPB

RESTORED HYBRID

Gross Output: 108 • Oil content: 46.1
Candidate for 2024

- Restored hybrid candidate for the UK, first listed for autumn 2024
- Good resistance to light leaf spot and stem canker
- RlmS and Rlm 7 double Phoma resistance



- Excellent autumn vigour and has good resistant to lodging
- No Pod Shatter but with TuYV, good LLS and exceptional Phoma resistance traits
- AHDB candidate list trial data.

LG AURELIA
WINTER OILSEED RAPE

LIMAGRAIN

RESTORED HYBRID

Gross Output: 103 (UK) • Oil content: 44.8
TuYV resistant • Recommended for UK

- TuYV resistance coupled with Pod shatter
- Most widely drilled variety in autumn 2022

LODGING	7.9
STEM STIFFNESS	7
SHORTNESS	6
EARLY FLOWER	7
EARLY MATURITY	5
LLS	7
STEM CANKER	5

- Excellent disease resistance, so in essence a good all-round variety with excellent vigour.

LG AVIRON
WINTER OILSEED RAPE

LIMAGRAIN

RESTORED HYBRID

Gross Output: 102 (UK) • Oil content: 44.4
TuYV resistant • Recommended for UK

- Added to the list in 2021
- Offers highest untreated seed yield on the Recommended List
- Exceptional autumn and spring vigour

LODGING	7.8
STEM STIFFNESS	7
SHORTNESS	6
EARLY FLOWER	8
EARLY MATURITY	6
LLS	7
STEM CANKER	6

HUTCHINSONS RECOMMENDED

- **Suited for a main to late drilling window**
- Fully loaded hybrid N-Flex, RLM7+, POSH, TuYV
- Consistent high yield performance across all regions
- Semi exclusive to Hutchinsons.

DK Excentric

DEKALB

RESTORED HYBRID

Gross Output: 101 (UK) • Oil content: 44.8
Breeder's information

- **SEMI EXCLUSIVE to Hutchinsons**
- **Suitable for both the early and mainstream drilling window**
- Excellent autumn vigour

LODGING	9
STEM STIFFNESS	8
SHORTNESS	5
EARLY FLOWER	5
EARLY MATURITY	5
LLS	6
STEM CANKER	7

- Good spring vigour
- TuYV resistant
- Has pod shatter resistance
- Good for withstanding verticillium.

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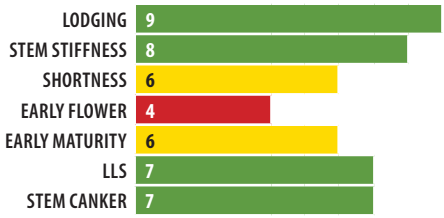
HINSTA

KWS

RESTORED HYBRID

Gross Output: 106 (UK) • Oil content: 46.2
Candidate for 2024 • Breeder's information

- Very capable verticillium resistance
- TuYV resistant



- New KWS Hybrid to be considered for 2024
- Stiff strawed with pod shatter resistance and TuYV.

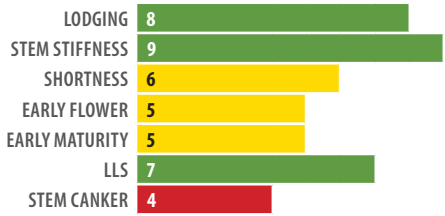
PI PINNACLE

Mike Pickford

CONVENTIONAL

Gross Output: 102 (UK) • Oil content: 44.4
Recommended for UK

- **NEW** - A conventional variety added to the 2024/25 Recommended List
- Suitable for main drilling window
- Good autumn vigour
- Good LLS (7)



- New conventional option with very good yields in East/West.
- Slightly more challenged on stem canker
- Highest yielding conventional variety

NEW

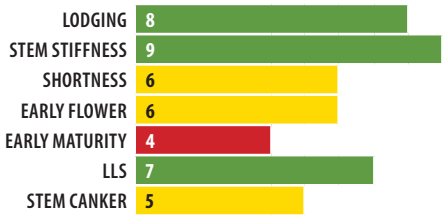
LG ANNIKA
WINTER OILSEED RAPE

LIMAGRAIN

CONVENTIONAL

Gross Output: 99 (UK) • Oil content: 44.9
Recommended for East/West

- First added to the Recommended List in 2022
- Performs well in all regions



- Good autumn vigour and better than some of its contemporaries
- TuYV resistance trait in a conventional variety.

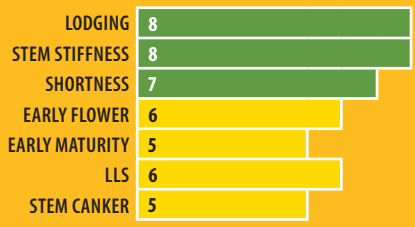
LG ACACIA
WINTER OILSEED RAPE

LIMAGRAIN

CONVENTIONAL

Gross Output: 98 (UK) • Oil content: 44.9
Recommended for UK

- Added to the RL in 2020 - a later maturing variety, with high treated gross output
- Recommended for all regions



- Very stiff stemmed, with a high resistance to lodging and excellent agronomics
- Excellent autumn and spring vigour for a conventional type.

HUTCHINSONS RECOMMENDED

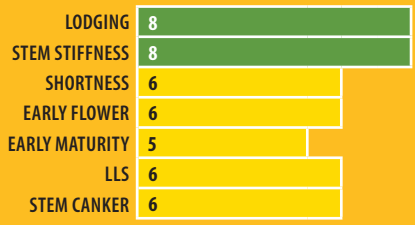
CAMPUS

KWS

CONVENTIONAL

Gross Output: 101 • Oil content: 45.4
UK VARIETY • Breeder's information

- No longer on AHDB Recommended list
- Remarkably consistent
- Good disease resistance
- Second in terms of area to Acacia



HUTCHINSONS RECOMMENDED

- Short stiff strawed
- Still a very capable and consistent conventional variety
- Growers' favourite, yet to let anyone down with better ability to withstand verticillium wilt.

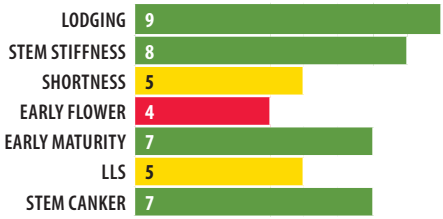
PT312 PROTECTOR

PROTECTOR SCLEROTINIA

PIONEER® VARIETY

Gross Output: 103 UK • Oil content: 47.6
UK variety • Breeder's information

- **From the Protector® Sclerotinia hybrid portfolio launched in Europe**
- TuYV resistance
- Multi genetic Phoma resistance



- Unique in the current market place
- Exceptionally high oil content
- Not on AHDB list but a step on from PT303.

MATRIX CL

Oilseed Rape

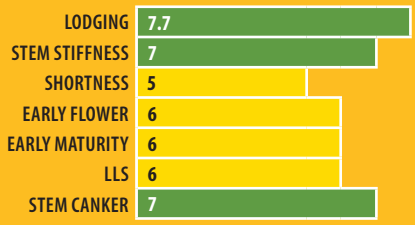
DSV

CLEARFIELD® HYBRID

Gross Output: 96 (UK) • Oil content: 45.6

Recommended for UK • TuYV resistant

- Clearfield® hybrid with TuYV resistance first added to 2022 Recommended List
- High oil content
- First quad trait stacked variety from DSV



- Still the highest yielding UK recommended Clearfield variety
- Pod shatter resistance.

PT279 CL

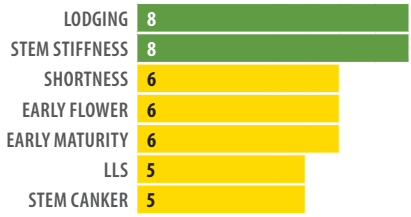
PIONEER

CLEARFIELD® VARIETY

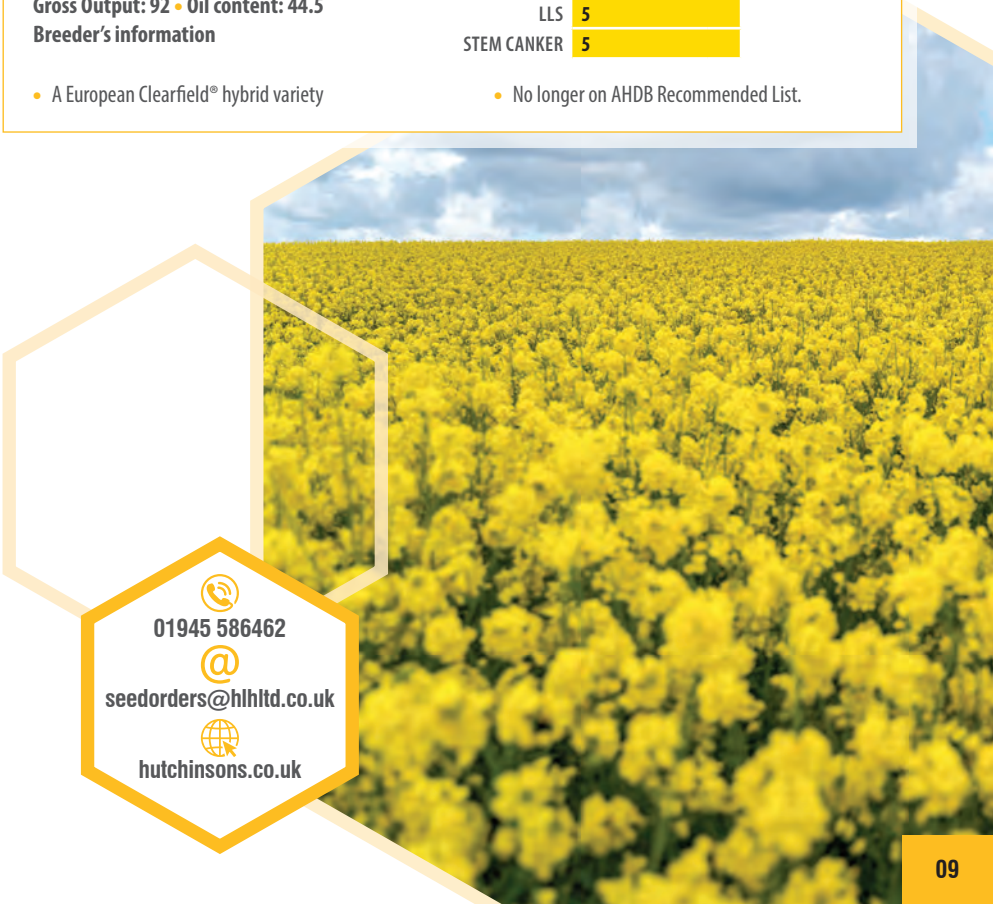
Gross Output: 92 • Oil content: 44.5

Breeder's information

- A European Clearfield® hybrid variety



- No longer on AHDB Recommended List.



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CROME

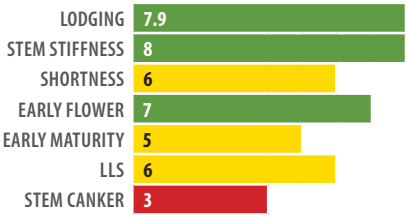
LSPB

RESTORED HYBRID

CLUBROOT RESISTANT

Gross Output: 96 (UK) • Oil content: 45.7

Recommended for Clubroot infected land only (UK)



- Clubroot resistance
- Suitable for sites where the Clubroot pathogen is a limitation to varieties without resistance.

LG SCORPION WINTER OILSEED RAPE

LIMAGRAIN

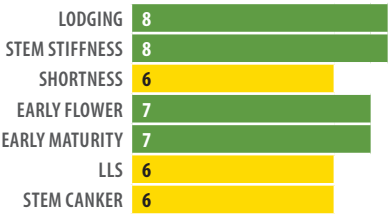
RESTORED HYBRID

Gross Output: 102.5 • Oil content: 45.8

CLUBROOT RESISTANT

For Clubroot infected land only

Breeder's information



- For Clubroot situations in East/West regions
- Good yields in East/West
- **Should only be grown in areas where Clubroot is a threat!**
- Weaker on Phoma, but has good standing power
- TuYV resistant.

Wheat

Variety Notes 2024

KWS ZYATT

KWS

GROUP 1 HARD

UK 99 • EAST 98 • WEST 99 • NORTH 97

Parentage: Hereford x Quartz

MILDEW	7
YELLOW RUST	3
BROWN RUST	7
SEPTORIA TRITICI	6.3
EYESPOT	6
FUSARIUM	6

- Group 1 variety with high yields, milling quality characteristics and a now average agronomic package
- Starting to be challenged significantly by yellow rust
- Now well-liked by multiple end users, careful N management required to ensure full protein specification
- Good eyespot rating
- UKp bread export potential.

NOTES: Performs very well as a second wheat. Relatively short and a good stander.

SY Cheer

Winter wheat

SYNGENTA

GROUP 1 HARD

UK 97 • EAST 97 • WEST 98 • NORTH (98)

Parentage: KWS Trinity x Expert

MILDEW	8
YELLOW RUST	7
BROWN RUST	6
SEPTORIA TRITICI	6
EYESPOT	4
FUSARIUM	7

- **NEW** - Group 1 variety with reasonable yields, milling quality characteristics and a better than average agronomic package
- Yellow rust a significant improvement on the Zyatt and Skyfall axis
- Awaiting end user support in its first commercial year in the market place at time of writing
- Poorer for eyespot
- Good grain quality with excellent bushel weight and useful protein levels.

HUTCHINSON'S RECOMMENDED

NOTES: Best untreated yield in the group 1 sector.

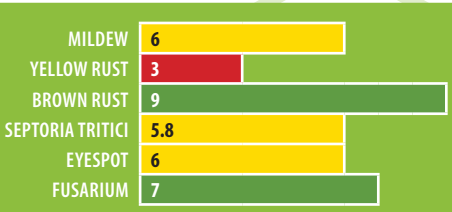
NEW

RGT SKYFALL

RAGT

GROUP 1 HARD

UK 96 • EAST 96 • WEST 96 • NORTH 95
Parentage: C4148 x Hurricane



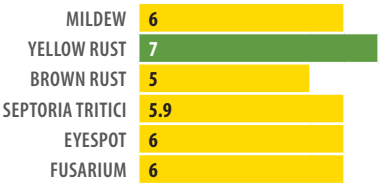
- Good yielding, awned Group 1 variety
- Relativity short and a good stander, better drilled towards the end September due to its rapid speed of development in the spring
- It is an early maturing variety
- High Fusarium rating makes it especially suited to be grown after maize. Yellow rust now a major concern and needs monitoring closely
- Has Pch1 eyespot resistant gene, good 2nd wheat, performs well on light soils
- **The only quality wheat to have OWBM resistance, giving it a definite advantage over its counterparts**
- Higher N applications needed to achieve full protein specification
- Good Hagbergs (although has a tendency to sprout, so priority must be given to it at harvest), it also has a good specific weight
- Most flexible drilling dates currently available.

NOTES: Grown specifically for milling and flexibility in drilling date. Starting to be challenged annually by Yellow Rust.

RGT ILLUSTRIOUS

RAGT

GROUP 1 HARD



UK 95 • EAST 95 • WEST 96 • NORTH 94 • Parentage: Qplus x Battalion

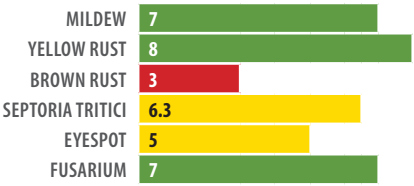
- Short and stiff strawed with high Hagberg and with a specific weight of 78.0kg/hl
- Excellent milling quality and likely to find more demand this autumn as concerns grow for alternatives
- Second highest untreated yield of the group one.

NOTES: Useful group 1 option for 2024

CRUSOE WINTER WHEAT

LIMAGRAIN

GROUP 1 HARD



UK 95 • EAST 95 • WEST 96 • NORTH 94 • Parentage: Cordiale x Gulliver

- Good agronomics apart from a growing susceptibility to brown rust and eyespot, average Septoria score
- An established, consistent milling variety becoming very popular with end users for its specific quality attributes
- Best converter of Nitrogen to Protein currently available
- Meets the specifications for UKp bread wheat for export, good specific weight and Hagbergs
- Still a very well-respected variety by the millers and maintains a niche market share.

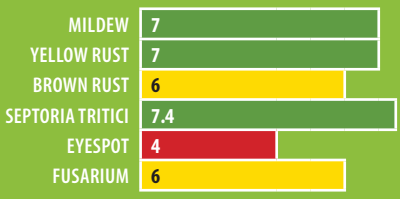
KWS EXTASE

KWS

GROUP 2 HARD

UK 101 • EAST 101 • WEST 102 • NORTH 99

Parentage: Boisseau x Solheio



- Group 2 added to the recommended list in 2019
- Still the highest untreated yield on the RL and high treated yields in the West
- Very good yellow rust rating with very good septoria resistance
- Has done particularly well relative to others on the light soils
- Better suited to mid drilling slot (relatively tall but good stander)
- Attracting good milling premiums in current marketplace.

NOTES: Third highest Septoria Tritici resistance rating on the recommended list at 7.4.

KWS PALLADIUM

KWS

GROUP 2 HARD

UK 100 • EAST 99 • WEST 101 • NORTH 99

Parentage: KWS Zyatt x KWS Trinity

- Added to RL in 2022 – a short and stiff strawed variety
- One of the highest untreated UK yields on the RL
- Good overall disease package. Has done well as a first or second wheat
- Meets the specifications for bread making but not export
- Newly recommended and worth consideration in this sector.

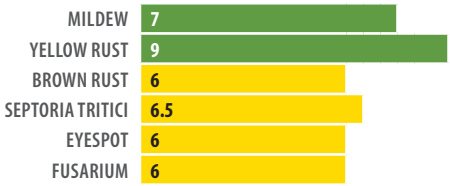
ULTIMATUM

KWS

GROUP 2 HARD

UK 101 • EAST 101 • WEST 101 • NORTH 101

Parentage: KWS Zyatt x Costello



- Group 2 variety added to the Recommended List for 2023/24
- Moderately strawed with high resistance to yellow rust
- Possibly better suited to an earlier drilling slot
- Good Fusarium resistance so a variety that will perhaps fit in a maize rotation
- Limited data would suggest it has UKs export potential.

MAYFLOWER

ELSOMS

GROUP 2 HARD

UK 97 • EAST 97 • WEST 97 • NORTH 96

Parentage: Ascott x Armada

MILDEW	7
YELLOW RUST	9
BROWN RUST	6
SEPTORIA TRITICI	8.9
EYESPOT	5
FUSARIUM	6

- Group 2 variety with good all-round disease resistance
- UK bread making and export markets
- Excellent resistance to Septoria and Yellow Rust
- Limited yield potential.

BAMFORD

ELSOMS

GROUP 3 SOFT

UK 106 • EAST 105 • WEST 107 • NORTH (105)

Parentage: Moulton x EW129

MILDEW	6
YELLOW RUST	7
BROWN RUST	6
SEPTORIA TRITICI	6.7
EYESPOT	6
FUSARIUM	5

- **NEW** - Group 3 variety with VERY high yields
- Good yellow rust resistance
- Multiple end users for distilling, biscuit making and UK soft export
- Good eyespot rating with Pch 1 gene
- Useful standing ability
- Exceptional bushel weight in the group 3 sector at 78.5.

HUTCHINSONS RECOMMENDED

NOTES: Game changer in the group 3 market with yield potential as good as any current recommended variety.

NEW

RGT WILKINSON

RAGT

GROUP 3 SOFT

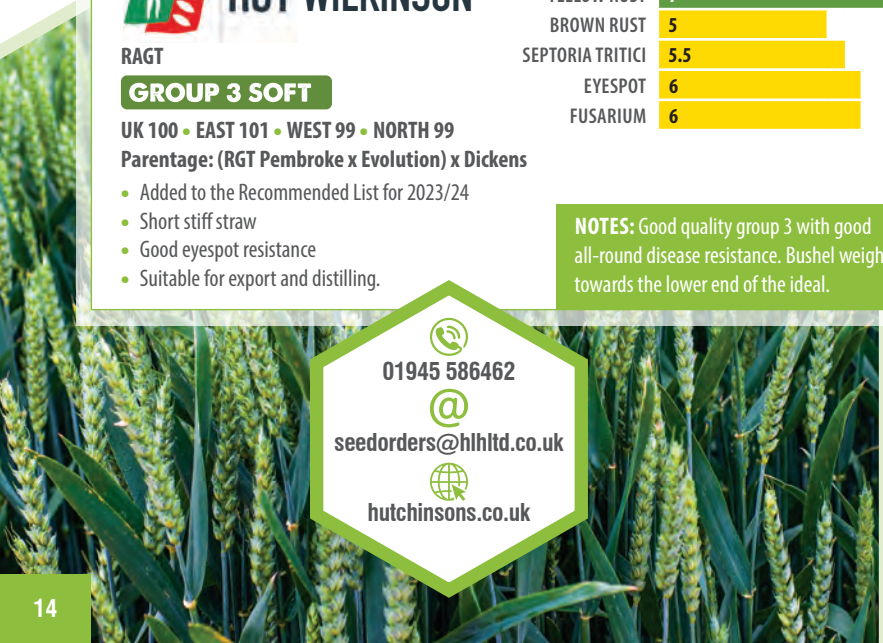
UK 100 • EAST 101 • WEST 99 • NORTH 99

Parentage: (RGT Pembroke x Evolution) x Dickens

MILDEW	7
YELLOW RUST	7
BROWN RUST	5
SEPTORIA TRITICI	5.5
EYESPOT	6
FUSARIUM	6

- Added to the Recommended List for 2023/24
- Short stiff straw
- Good eyespot resistance
- Suitable for export and distilling.

NOTES: Good quality group 3 with good all-round disease resistance. Bushel weight towards the lower end of the ideal.



ASTRONOMER
WINTER WHEAT

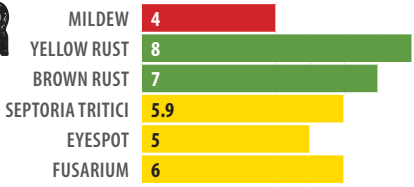
LIMAGRAIN

GROUP 3 SOFT

UK 98 • EAST 98 • WEST 98 • NORTH 97

Parentage: (Cougar x Leeds) x Britannia

- Added to the Recommended List in 2021



NOTES: • Excellent bushel weight. • Strong agronomic package with only Mildew a weakness. • Suitable for biscuit making and distilling home end markets. • Very good standing ability with a 9 when treated with PGR.

REDWALD
WINTER WHEAT

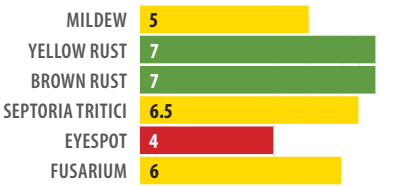
LIMAGRAIN

GROUP 4 SOFT

UK 106 • EAST 105 • WEST 107 • NORTH 104

Parentage: LG Sundance x Generation

- Added to Recommended List in 2023
- Will require robust PGR programme to realise full potential
- Performs well in all regions but especially in the East and West
- Suitable for distilling
- Slightly lower bushel weight so optimise site choice to negate the challenge accordingly
- Susceptible to Eyespot.



NOTES: Highest yielding variety in the soft Group 4 list for autumn 2024. A horse for a course with careful management required.

SKYSCRAPER
WINTER WHEAT

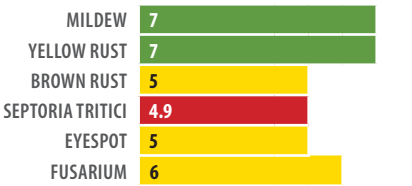
LIMAGRAIN

GROUP 4 SOFT

UK 102 • EAST 103 • WEST 101 • NORTH 101

Parentage: (Cassius x NAWWW29) x KWS Santiago

- A high yielding Group 4 soft variety first added to the 2019 Recommended List
- A relatively tall variety, but with acceptable straw strength nonetheless. Good PGR management and later drilling will assist with any minor concerns
- Weaker on Septoria, but above average score for yellow rust and with OWBM resistance
- Very consistent yield performance (Season v Regional).



NOTES: Soft milling feed variety with excellent grain quality. "Good" distilling quality (+ve) in last two years.

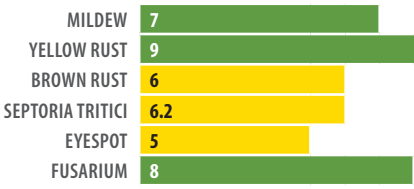
BLACKSTONE

ELSOMS

GROUP 4 SOFT

UK 103 • EAST 103 • WEST 101 • NORTH (103)

Parentage: Panacea x KW Tempo



- **NEW** - added to the 2024/25 Recommended List, a group 4 soft with very good yields
- Very good disease resistance particularly Yellow Rust and Fusarium
- Decent standing ability
- Slightly later maturing +2.

NOTES: OWBM resistant.

NEW

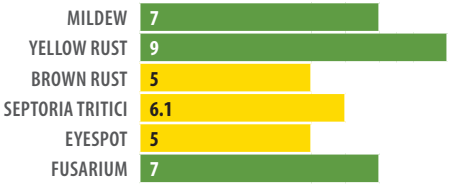
ZEALUM

KWS

GROUP 4 SOFT

UK 102 • EAST 103 • WEST 102 • NORTH 102

Parentage: KWS Basset x Reflection

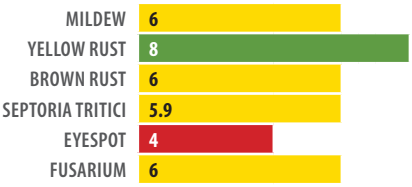


- Group 4 feed soft wheat variety - added to the Recommended List 2023
- Consistent performer across all regions
- Solid disease resistance and OWBM resistant and excellent yellow rust
- Good grain quality and straw strength is very good with a PGR.

RGT BAIRSTOW

RAGT

GROUP 4 SOFT



UK 102 • EAST 102 • WEST 103 • NORTH 102 • Parentage: (Revelation x Santiago) x Cougar

- First added to the Recommended List for 2022
- Good standing ability
- Performs well in all regions
- Suitable for distilling
- PGR programme will be needed for twin lodging 6's
- Preferred to RGT Stokes for OWBM resistance.

NOTES: Group 4 without offering anything outstanding other than being a suitable option for the North and its distilling market.

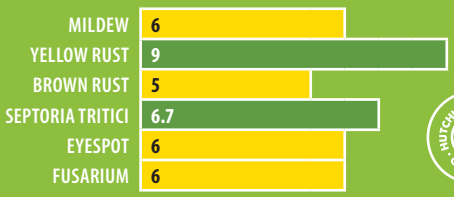
BEOWULF WINTER WHEAT

LIMAGRAIN

GROUP 4 HARD

UK 106 • EAST 106 • WEST 106 • NORTH (107)
Parentage: Gleam x Costello

- **NEW** - added to the 2024/25 Recommended List, a Group 4 hard with very high yield
- OWBM resistant
- Excellent Yellow Rust resistance



- Useful septoria resistance at 6.7
- Consistent across all regions.

NOTES: Looks to be an exceptionally good stander.

NEW

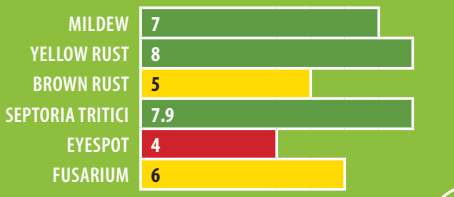
DSV CHAMPION Winter Wheat

DSV

GROUP 4 HARD

UK 106 • EAST 106 • WEST 106 • NORTH 103
Parentage: DSV20122 x Reflection

- Very high yielding hard group 4 recommended in 2022
- Has performed well in first and second wheat situations on light or heavy soils
- Very good in the West with accomplished Septoria resistance



- Very high yielding in the East
- A weaker strawed variety that will reach maximum potential with a robust PGR programme
- OWBM resistant.

NOTES: Excellent potential but care needed on lighter soils.

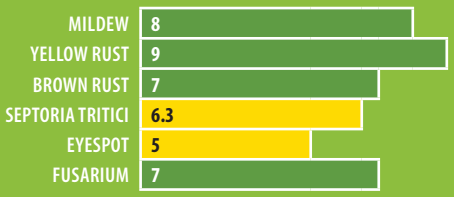
KWS DAWSUM

KWS

GROUP 4 HARD

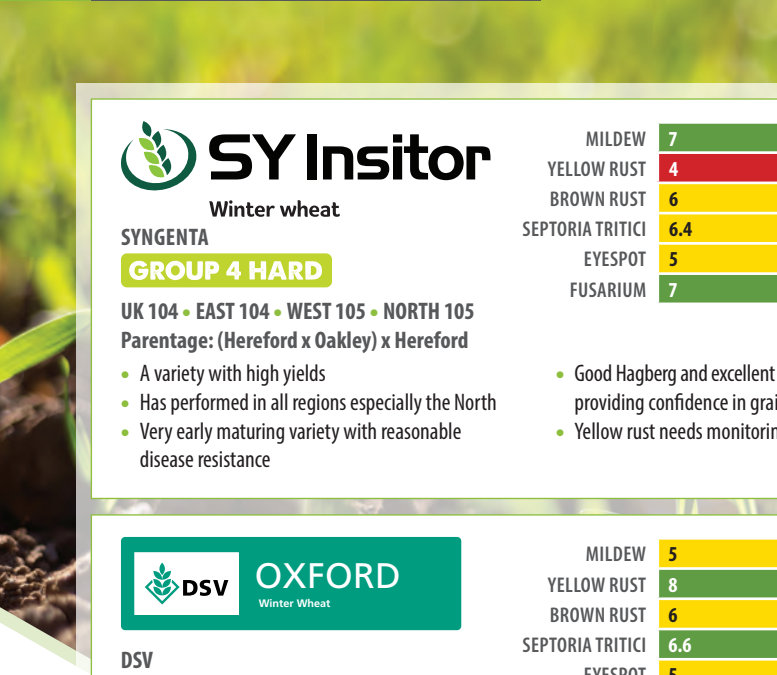
UK 103 • EAST 103 • WEST 104 • NORTH 105
Parentage: KWS Kerrin x Costello

- High yielding feed variety added to the Recommended List in 2022
- Produced consistent high yields
- Good standing ability with strong twin lodging 7's
- High yield potential in all regions



- Very good Hagberg and specific weight
- Stiff strawed and performs particularly well on heavy soils.

NOTES: A very safe looking wheat in the same vein as Costello.



SY Insitor

Winter wheat

SYNGENTA

GROUP 4 HARD

UK 104 • EAST 104 • WEST 105 • NORTH 105

Parentage: (Hereford x Oakley) x Hereford

- A variety with high yields
- Has performed in all regions especially the North
- Very early maturing variety with reasonable disease resistance
- Good Hagberg and excellent bushel weight, providing confidence in grain quality
- Yellow rust needs monitoring.

DSV OXFORD

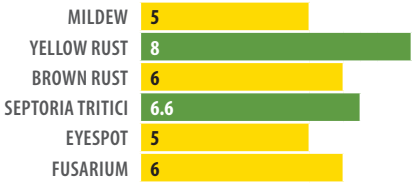
Winter Wheat

DSV

GROUP 4 HARD

UK 104 • EAST 104 • WEST 104 • NORTH 101

Parentage: DSV20122 x Reflection



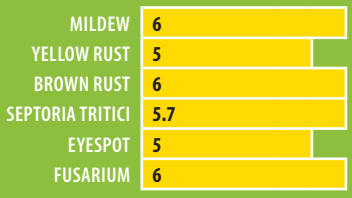
- Group 4 hard feed wheat variety added to the Recommended List in 2023
- This variety has produced consistent treated UK yields – good first wheat, potentially a second wheat too
- Only average resistance to lodging, although has done relatively better from later drilling
- Excellent yellow rust and a capable performer elsewhere across the disease profile
- OWBM resistance
- From the same breeder as Champion and probably not quite as good an option.

Gleam

Winter wheat

SYNGENTA

GROUP 4 HARD



UK 103 • EAST 103 • WEST 103 • NORTH 103 • Parentage: Hereford x KWS Kielder

- A very consistent performer across the regions
- Robust agronomics and high untreated yields will offer easier management in most situations
- Performs well on all soil types, in either first or second wheat situations
- It is a short and stiffer strawed variety
- OWBM resistant
- Good grain quality and early to mature.

NOTES: Particularly flexible wheat, first or second, early or late drilled, good grain characteristics, has started to be affected by yellow rust due to the Hereford in its parentage.

Graham

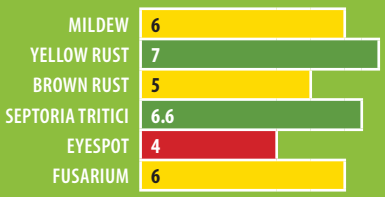
Winter wheat

SYNGENTA

GROUP 4 HARD

UK 102 • EAST 101 • WEST 104 • NORTH 102

Parentage: Premio x Expert



- A variety with high untreated yields
- Has performed best in the West - less suitable North of the borders
- Very early maturing variety with good all-round disease resistance and good Septoria Tritici resistance, although only weakness being a poor Eyespot rating
- Suitable for early drilling in first wheat situations
- Good resistance to sprouting
- Good Hagberg and bushel weight, providing confidence in grain quality.

NOTES: Good for Septoria with little breakdown to date making it a good geographical fit for the South West and West, whilst not undermining its national ability as a clean variety. Looks to be a suitable early drilling option.

LG TYPHOON WINTER WHEAT

LIMAGRAIN

GROUP 4 HARD

UK 100 • EAST 100 • WEST 100 • NORTH 101

Parentage: LG Garrus x LGW88

- Added to the RL in 2022
- Good standing ability
- Performs consistently across all regions
- No disease weaknesses
- Good Septoria resistance
- OWBM resistant.

NOTES: A hard group 4, without offering anything outstanding in yield but a safe disease profile.

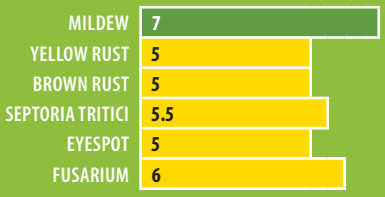
RGT GROUSE

RAGT

GROUP 4 HARD

Parentage: – coded PD lines

BYDV Resistance Trait • Breeder's information



- **BYDV resistance** and by definition a useful management tool
- Weaker yellow rust score advocates tighter crop management particularly in the East
- Acceptable grain quality without being outstanding
- Suitable for drilling from early September onwards.

NOTES: BYDV and OWBM resistant variety.

RECOMMENDED LIST CHART PAGES 48 - 49

Winter Barley

Variety Notes 2024

BUCCANEER

MILDEW	6
BROWN RUST	8
RHYNCHOSPORIUM	7
NET BLOTCH	6

SAATEN UNION UK

TWO ROW MALTING

UK 99 • EAST 100 • WEST 98 • NORTH 100 • BaYMV Resistant • Parentage: Zophia x SJ128225

- Two row malting variety with provisional approval for brewing
- Performed well in all regions
- Has good potential in Scotland
- Suited to heavier soils and has high brown rust rating
- Good disease resistance
- Resistant to BaYMV strains.

Electrum Winter barley

MILDEW	6
BROWN RUST	7
RHYNCHOSPORIUM	5
NET BLOTCH	5

SYNGENTA

TWO ROW MALTING

UK 96 • EAST 96 • WEST 96 • NORTH 96 • BaYMV Resistant • Parentage: SY208-56 x SY208-59

- Two row malting variety, has full approval from MBC for brewing
- Performed well in all regions
- Has produced high specific weights
- Suited to heavier soils and has high brown rust rating
- Has been seen to be relatively early maturing
- Resistant to BaYMV strains.

NOTES: Malting variety suited to the East and West regions with full MBC approval.

Craft Winter barley

MILDEW	6
BROWN RUST	7
RHYNCHOSPORIUM	6
NET BLOTCH	5

SYNGENTA

TWO ROW MALTING

UK 93 • EAST 93 • WEST 93 • NORTH 93 • BaYMV Resistant • Parentage: SY 208-56 x SY Venture

- Malting variety, has full approval from the MBC for brewing with good agronomic characteristics
- Stiff-strawed and has performed better on light soils
- Resistant to common strains of BaYMV.

NOTES: Electrum has the nudge on yield, but consumers will have the final say on quality.

CARAVELLE WINTER BARLEY

LIMAGRAIN

TWO ROW FEED

MILDEW	7
BROWN RUST	7
RHYNCHOSPORIUM	6
NET BLOTCH	6

UK 106 • EAST 107 • WEST 105 • NORTH 104 • BaYMV Resistant
Parentage: LGBU11-5493-B x KWS Moselle

- The highest yielding two row feed barley variety for the UK, first added in 2023
- Very high bushel weight 71.4
- Reasonable standing ability (7).

NOTES: Performs well on all soil types and across the regions. Exceptional in the East where it is the joint highest yielding variety on the AHDB list with LG Capitol.

CAPITOL WINTER BARLEY

LIMAGRAIN

TWO ROW FEED

MILDEW	6
BROWN RUST	7
RHYNCHOSPORIUM	6
NET BLOTCH	5

UK 106 • EAST 107 • WEST (103) • NORTH (105) • BaYMV Resistant
Parentage: LGBU11-5493-B x KWS Moselle

- **NEW** - A very high-yielding two row feed variety for the UK
- This variety has performed well in all regions to date and highest yielding in the East
- Bushel weight 69.9
- Has shown no weaknesses in disease profile to date
- Resistant to common strains of BaYMV
- Good brackling resistance
- **Semi exclusive variety to Hutchinsons.**

NOTES: Newly recommended for 2024, quite accomplished, and maybe the one to beat this year.

NEW

LIGHTNING

Elsoms ACKERMANN BARLEY

ELSOMS ACKERMANN

TWO ROW FEED

MILDEW	6
BROWN RUST	8
RHYNCHOSPORIUM	6
NET BLOTCH	6

UK 103 • EAST 104 • WEST 102 • NORTH 103 • BaYMV Resistant

- A two row feed variety added to the Recommended List in 2022
- Very high untreated yield
- Taller strawed
- Highest yields in the East where it performs very solidly. Good in the North and West too.

NOTES: Looks to offer excellent management opportunity, coupled with good yields across the UK.

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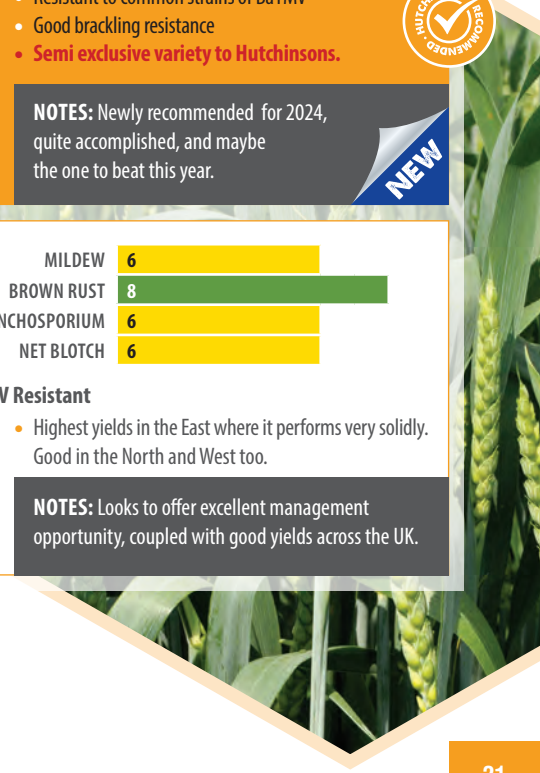


KWS TARDIS

KWS

TWO ROW FEED

MILDEW	5
BROWN RUST	6
RHYNCHOSPORIUM	6
NET BLOTCH	6

UK 103 • EAST 104 • WEST 101 • NORTH 103 • BaYMV Resistant • Parentage: 11-12 x KWS Orwell

- High yielding two row barley
- Stiff strawed
- Very good resistance to Rhynchosporium
- Most widely grown in 2023 with 32% market share.

Notes: Sold exceptionally well again in autumn 2023 but under pressure from the higher yielding LG Capitol and LG Caravelle, but likely to remain market leader.

BOLTON

Elsoms ACKERMANN BARLEY

ELSOMS ACKERMANN

TWO ROW FEED

MILDEW	6
BROWN RUST	7
RHYNCHOSPORIUM	5
NET BLOTCH	5

UK 103 • EAST 105 • WEST 101 • NORTH 101 • BaYMV Resistant • Parentage: KWS Cassia x KWS California

- A high yielding two row feed barley variety for the UK
- Performs well across all regions but best in the East
- Excellent grain quality with low screenings
- Consistent performer since listing in 2021
- Good disease resistance.

SY Quantock

Hyvido®

SYNGENTA

SIX ROW FEED

MILDEW	7
BROWN RUST	6
RHYNCHOSPORIUM	7
NET BLOTCH	5

UK 108 • EAST 106 • WEST (116) • NORTH (108)
BaYMV Resistant • Parentage: F1 Hybrid • Candidate for 2024

- Very high yielding candidate hybrid variety
- Good untreated yield and high resistance to rusts and Rhynchosporium – BaYMV resistant
- Very high specific weight and low screenings
- Performed exceptionally in the West on limited data set.

SY Thunderbolt

Hyvido®

SYNGENTA

SIX ROW FEED

MILDEW	7
BROWN RUST	6
RHYNCHOSPORIUM	7
NET BLOTCH	6

UK 107 • East 106 • West 108 • North 107 • BaYMV Resistant • Parentage: F1 hybrid

- **Highest yielding** six row hybrid feed variety on the AHDB Recommended List
- Resistant to common strains of BaYMV
- Good bushel weight
- Taller variety with weaker straw
  Will respond to a robust PGR programme
- Overyeared seed and likely to be its last autumn.

NOTES: Excellent variety from Syngenta with sound grain quality and very high yield. Taller than some, so attention to preferred PGR programme will assist in achieving fullest potential.

SY Kingsbarn Hyvido®

SYNGENTA

SIX ROW FEED

MILDEW	7
BROWN RUST	5
RHYNCHOSPORIUM	7
NET BLOTCH	5

UK 107 • East 106 • West 107 • North 107 • BaYMV Resistant • Parentage: F1 Hybrid

- High yielding six row hybrid feed variety
- Most widely grown variety within the hybrid sector
- Good overall disease resistance
- High specific weight and good resistance to lodging
- Resistant to common strains of BaYMV.

SY Nephin Hyvido®

SYNGENTA

SIX ROW FEED

MILDEW	6
BROWN RUST	7
RHYNCHOSPORIUM	7
NET BLOTCH	6

UK 104 • East 105 • West 102 • North 105 • BaYMV Resistant • Parentage: F1 Hybrid

- A high yielding six row hybrid feed variety added to 2023/24 Recommended List
- Resistant to common strains of BaYMV
- Consistent across all regions of the UK but slightly weaker in the West
- Best resistance to Rhynchosporium.

SY Buzzard Hyvido®

SYNGENTA

SIX ROW FEED

MILDEW	6
BROWN RUST	6
RHYNCHOSPORIUM	6
NET BLOTCH	7

UK 103 • East 104 • West (101) • North (102) • BYDV Tolerant • 2023 Candidate

- **NEW** - six row hybrid feed variety added to 2024/25 Recommended List
- High yielding hybrid barley
- Lower untreated yields but responds well to fungicides
- BYDV Tolerant – new trait for management of high pressure aphid levels
- Performs well on heavier soils but with robust PGR programme.

NEW

SY Kestrel Hyvido® Neo

SYNGENTA

SIX ROW FEED

MILDEW	7
BROWN RUST	6
RHYNCHOSPORIUM	7
NET BLOTCH	6

UK 103 • EAST 102 • WEST (107) • NORTH (103)
BYDV Resistant • Candidate for 2024
Parentage: F1 Hybrid

- Candidate variety for 2024
- High yielding hybrid barley
- BYDV Resistant - new trait for management of high-pressure aphid levels
- Performs well on all soils, with reasonable standing ability.

KWS FEERIS

MILDEW	5
BROWN RUST	6
RHYNCHOSPORIUM	6
NET BLOTCH	6

KWS

SIX ROW FEED

UK 102 • EAST 102 • WEST 102 • NORTH 100

BaYMV Resistant • BYDV Tolerant • Parentage: Amistar x KWS Kosmos

- Added to list in 2021/22 a high yielding conventional six row feed barley variety for the UK
- Highest yielding barley with BYDV tolerance currently available in the marketplace
- Stiff strawed
- Good resistance to Rhynchosporium.

Notes: Recommended and able to offer added protection against BYDV with little detriment to yield and quality. Should be considered as a management tool for barley growers this autumn. Stewardship on BYDV needed to reach full potential.

SENSATION Barley

MILDEW	6
YELLOW RUST	8
BROWN RUST	8
RHYNCHOSPORIUM	6
NET BLOTCH	5

DSV

6 ROW CONVENTIONAL BARLEY

UK 104 • EAST 104 • WEST 104 • NORTH 104

BaYMV Resistant • BYDV Tolerant • Breeder's information

- Introduced in 2021 to the UK
- Tolerant to BYDV
- Strong disease resistance
- Very competitive with blackgrass
- Not on the AHDB list but will find support given lack of seed treatment for BYDV.

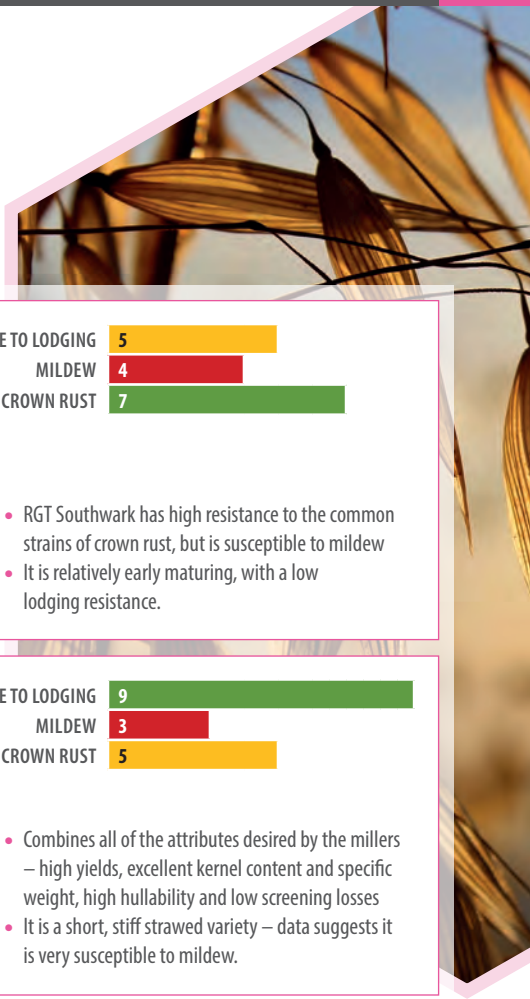
NOTES: Tolerance to BYDV with early maturity.

Malting Barley Committee Approved List of Winter Varieties Harvest 2024

	Winter Varieties for Brewing Use
Full Approval:	**CRAFT** **ELECTRUM**
Provisional Approval:	**BUCCANEER**

Winter Oat

Variety Notes 2024



RGT SOUTHWARK

RESISTANCE TO LODGING 5
MILDEW 4
CROWN RUST 7

RAGT - UK 105

- RGT Southwark is the highest yielding winter oat on the 2024/25 Recommended List
- It combines high yield and quality, notably specific weight
- RGT Southwark has high resistance to the common strains of crown rust, but is susceptible to mildew
- It is relatively early maturing, with a low lodging resistance.

Cromwell WINTER OAT

RESISTANCE TO LODGING 9
MILDEW 3
CROWN RUST 5

Senova - UK 103

- First added to the 2023 Recommended List, a winter husked oat with great potential for the milling markets
- Cromwell is a Mascani cross but produces significantly higher yields
- Combines all of the attributes desired by the millers – high yields, excellent kernel content and specific weight, high hullability and low screening losses
- It is a short, stiff strawed variety – data suggests it is very susceptible to mildew.

Dalguise WINTER OAT

RESISTANCE TO LODGING 4
MILDEW 4
CROWN RUST 4

SENOVA - UK 101

- Dalguise is a very consistent variety with relatively low screenings and a high specific weight
- It has relatively long straw with low lodging resistance
- Needs robust management due to poor agronomic characteristics.

Gerald WINTER OAT

RESISTANCE TO LODGING	6
MILDEW	4
CROWN RUST	5

SENOVA - UK 95

- Gerald's consistent yields and good field characteristics ensure it remains a popular variety choice for growers, although it is now being superseded
- Top quality milling variety – data suggests it is susceptible to mildew
- A late maturing variety, with a low kernel content and moderate straw strength.

Mascani WINTER OAT

RESISTANCE TO LODGING	7
MILDEW	6
CROWN RUST	5

SENOVA - UK 95

- Mascani remains by far the most popular variety with oat millers and growers
- It is less susceptible to mildew than most recommended varieties and has moderate resistance to crown rust, although a race exists to which it could be susceptible
- Mascani delivers moderate yields, but this is compensated by its combination of high kernel content and specific weight.

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DESCRIPTIVE LIST CHART PAGES 43

Hybrid Rye

Variety Notes 2024

Agronomic benefits:

- An economic alternative to second wheat
- Reduced fertiliser, herbicide and fungicide requirements
- High straw yield
- Grows well on marginal land
- Good drought tolerance
- Competitive against grass weeds due to high tillering capacity
- Expanding end use markets

Key Varieties:

POSEIDON

HYBRID RYE

As well as high yields and good grain quality, its fast plant development in the autumn and spring produces a high tillering, dense crop. Good for blackgrass suppression.

SU BARESI

HYBRID RYE

A further step forward in breeding from its predecessor **SU Arvid**, with standout gas yield and quality.
A shorter plant type, with impressive standing ability.

HELLTOP

HYBRID RYE

Despite being an older variety it offers good weed suppression, a powerful rooting system and bold grain size with high dry matter yield.

SU KARLSSON

HYBRID RYE

New for 2024/25 a dual-purpose variety with improved genetics that delivers high dry matter yields and consistently high methane content.

SU PERFORMER

HYBRID RYE

A consistent high yielding variety with good resistance to lodging. A mainstay variety in the Elsoms portfolio.

SERAFINO

Offers a leading harvest index (grains/ear), with excellent Hagberg (HFN) and sample quality. A good option for pig finishing or sow rations. Food industry uses include flour, breakfast cereals and distilling or malt.

SU PERSPECTIV

HYBRID RYE

Successor to the extremely popular **SU PERFORMER** with slightly earlier maturity and significantly better brown rust tolerance.

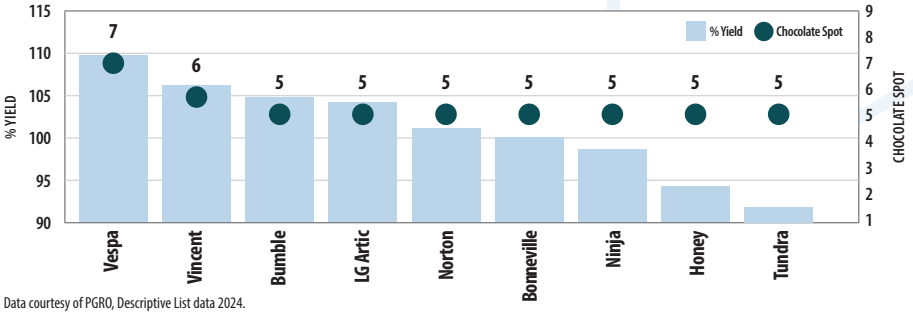
TAYO

Has high grain and straw yields, plus low growing costs. Also offers robust stem stiffness compared to older hybrids and good Brown Rust resistance. Good for pig finishing.

DESCRIPTIVE LIST CHART PAGES 51

Winter Bean
Variety Notes 2024

DL WINTER BEANS 2024



Data courtesy of PGRO, Descriptive List data 2024.

Beans provide a useful break to reduce cereal pests and diseases and an opportunity to control grass weeds in an arable rotation. In wet years and on heavy soils, beans perform better than peas. Beans also suffer less from pigeon damage, they are easier to combine, and growing costs can sometimes be lower.

Winter beans are generally a large-seeded crop with a thousand seed weight normally above 530 grams Downy mildew can cause yield loss in some seasons, but varieties with good resistance are available.

Early maturing spring beans can mature before winter beans. However, winter beans, given an end market demand by the consumer, are a low input crop offering valuable rotational properties.

Winter beans do not have a vernalisation requirement, although they are more winter hardy than spring types. In moisture-retentive and fertile fields that produce tall, lush crops, short-strawed varieties could be an asset. Ascochyta is most likely to be a problem in wet conditions and varieties with good resistance are available.

Beans, however, are harvested later than peas, and time of harvest is very dependent on seasonal weather in the August/September period. This is a consideration to take, given the uncertainties of our wonderful climate.

Vespa (best chocolate spot resistance) remain the go to variety followed by **Vincent** (best downy mildew resistance) and **Bumble**. All three are varieties from Senova. This is followed by **LG Artic** from Limagrain as one of only two varieties recommended from this breeder. **Vespa** accounts for a very significant part of the crop area accounting for circa 70% of the current season. This is unlikely to change in the short term.

For further agronomic characteristics please refer to the descriptive list within the seed guide.

Seed Rate Charts

Oil Seed Rape seeds/m²	30	40	50	60	70	80	90	100
TGW								
4	1.2	1.6	2	2.4	2.8	3.2	3.6	4
4.5	1.35	1.8	2.25	2.7	3.15	3.6	4.05	4.5
5	1.5	2	2.5	3	3.5	4	4.5	5
5.5	1.65	2.2	2.75	3.3	3.85	4.4	4.95	5.5
6	1.8	2.4	3	3.6	4.2	4.8	5.4	6
6.5	1.95	2.6	3.25	3.9	4.55	5.2	5.85	6.5

Cereals seeds/m²	250	275	300	325	350	375	400	425
TGW								
45	113	124	135	147	158	169	180	192
46	115	127	138	150	161	173	184	196
47	118	130	141	153	165	177	188	200
48	120	132	144	156	168	180	192	204
49	123	135	147	160	172	184	196	209
50	125	138	150	163	175	188	200	213
51	128	141	153	166	179	192	204	217
52	130	143	156	169	182	195	208	221

Winter Beans seeds/m²	20	22	24	26	28
TGW					
500	100	110	120	130	140
525	105	116	126	137	148
550	110	121	132	143	154
575	115	127	138	150	162
600	120	132	144	156	168
625	125	138	150	163	175
650	130	143	156	169	182
675	135	149	162	176	189
700	140	154	168	182	196

Spring Beans seeds/m²	44	46	48	50	52	54	56
TGW							
500	220	230	240	250	260	270	280
525	231	242	252	263	274	284	295
550	242	253	264	275	286	297	308
575	253	265	276	288	300	311	323
600	264	277	288	301	313	325	337
625	275	288	300	313	326	338	351
650	286	300	312	326	339	352	365

Spring Peas seeds/m²	74	76	78	80	82	84	86	88
TGW								
250	186	191	196	200	205	210	215	220
260	194	199	204	208	213	218	224	234
270	201	206	211	216	221	227	232	238
280	208	213	218	224	230	235	241	247
290	216	221	226	232	238	244	250	256
300	223	228	233	240	246	252	258	265

01945 586462
seedorders@hlhltd.co.uk
hutchinsons.co.uk

Units: kg/ha *- The seed rates in kg/ha highlighted assume 100% establishment.* To amend these figures to reflect your own expectations of establishment (to include germination and field losses), multiply the relevant figure (from the seed chart below) by 100 and divide by your **expected establishment percentage**.

Helix Technology Farms

Hutchinsons Helix and Regional Trial Centres

Summer Open Days

Here is a preview of our activities at the forthcoming Helix and Regional Trial Centre summer open days taking place around the country.

Our Regional Trial Centres

At nine combinable crop trial centres around the country, there will be demonstrations and presentations from our specialists focusing on **"knowing your numbers"** - working with and managing your farm data, to help you understand what you put in and what you get out.

- Which cereal variety is right for your situation?
- Understanding your farm business with **Omnia**, the next generation farm management system
- Implementing the Sustainable Farming Incentive (SFI)
- How healthy is your soil and how can you measure/ monitor and manage it?

Variety demonstrations

Most locations will feature treated and untreated comparisons of a wide range of new and established winter wheat and winter barley varieties, providing a great opportunity to evaluate agronomic performance under local conditions and soil type. Variety selection to meet market demands and to perform well on your own farm is a major decision and there is an increasing focus on using genetics to ease crop management.

Omnia Digital Farming

Specialists will be able to practically demonstrate our next generation farm management system, Omnia, including the forthcoming Omnia with **EasyPlan** upgrade, which focusses on farm management records, gross margin analysis, recommendations, and stock levels.

Maximising the Sustainable Farming Incentive (SFI)

Our environmental team will explore ways growers can boost environmental benefits from unproductive areas of land and successfully integrate the latest SFI options on farm, to maximise income by applying the right option in the right place.

Our Helix Technology Farms

Our Helix farms will also feature many of the above topics under a core message of **"measure to manage"** - using technology and innovation to analyse your farm business, to maximise output.

The demonstrations at six Helix farms around the country show how the hosts are practically and successfully collaborating with new technology and specialists to improve their business decision making. At these sites we are continuing to evaluate new technologies, to develop beneficial business tools, for the wider farming community, that have been tried and tested.

This summer's programme of events at Hutchinsons Helix and Regional Trial Centres promises an exciting insight into the ways farm income can be improved.

HUTCHINSONS
Crop Production Specialists

Helix Demonstration Farms and Regional Trial Centres

Locations & Events Summer 2024

1 **Carlisle** – Tuesday 11th June
2 **Alnwick** – Wednesday 12th June
3 **Grayingham** – Tuesday 2nd July
4 **Harleston** – Thursday 4th July
5 **Stowbridge** – Friday 28th June
6 **Brockhampton** – Wednesday 10th July
7 **Castle Donington** – Tuesday 25th June
8 **Bourne** – Thursday 13th June
9 **DKB** – Tuesday 25th June
10 **Helix National Technology Farm** – Tuesday 2nd July
11 **Helix Yorkshire** – Thursday 13th June
12 **Helix Oxfordshire** – Wednesday 19th June
13 **Helix Northumberland** – Tuesday 25th June
14 **Helix Cornwall** – 17th/18th June evenings
15 **Helix Wiltshire** – Thursday 20th June
16 **Helix Fife** – Thursday 18th July
17 **Potato Demonstration Event** – Tuesday 9th July

Please look out for an invitation to your local event, which will be sent out during May.

Check our website
www.hutchinsons.co.uk/event for more information and to reserve your place.

Our Specialist Seed Mixes

Scan the QR code for more information on our specialist seed mixes:

- Environmental mixes
- Catch and cover crop mixes
- Maize varieties.

Ensure you get the best mix for your situation and speak to us before deciding.

RECOMMENDED LIST CHART PAGES 50

Spring Cropping
OVERVIEW

Cereals

In spring 2024 we have seen a high demand for spring cereals, where available, after the heavens opened at the end of October and subsequently are yet to fully turn the tap off! Unfortunately, we know that when it happens, then nature will generally balance the books.

Spring Barley

LAUREATE is still the undoubted number one in the marketplace, outselling its competitors whilst offering dual purpose end markets, as does **LG DIABLO** but not as widely grown. **RGT PLANET** has seemingly had its day as its market share continues to decline. It will still have support from growers who have seen very consistent performance but accept it is on the wane. **FIREFOXX** now also offers full approval for malt and distilling.

SKYWAY offers potential brewing ability and has full approval whilst **SY SIGNET** and **SY TENNYSON** are available with provisional approval at the time of writing.

Feed variety **HURLER** is the only true feed variety recommended, but arguably the malting varieties offer better yield. **FAIRING** offers grain distilling in a specific category.

BOUNTY, **GAMBIT** and **BELTER** all under test for malting look to be offering some competition but until approved will be lesser in demand.

Spring Wheat

KWS HARSUM and **KWS LADUM** are the group 1 offer, **KWS LADUM** has no major disease weaknesses, with high resistance to mildew, brown rust and Septoria tritici. It will be a major consideration for next spring.

KWS ALICIUM now supersedes **KWS COCHISE** with new variety **WPB MYLO** providing an alternative in the group 2 sector which is dominated at present by the KWS portfolio.

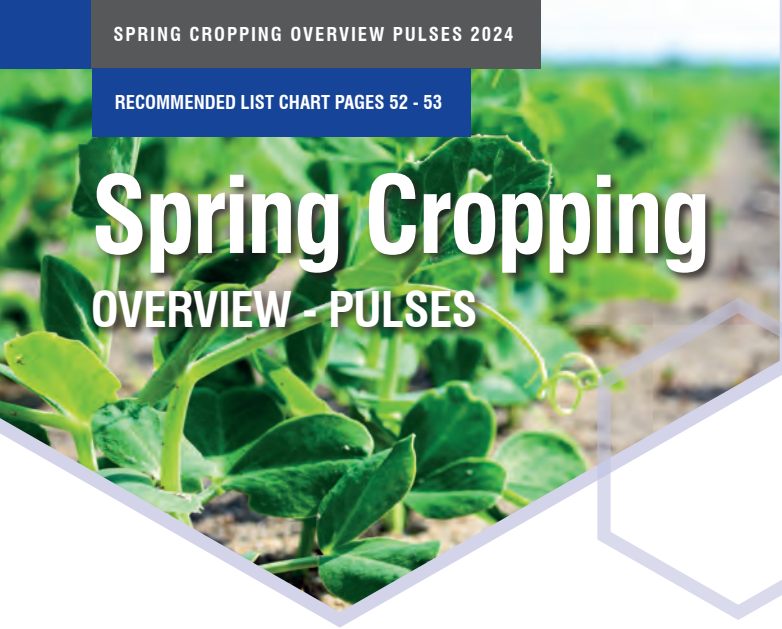
WPB ESCAPE and **KWS FIXUM** since its arrival within the sector are the current market leaders, with new highest yielding **SEW19-3003SW1** providing a snappy named edition to the group 4's from COPE SEEDS with highest yield to date at 107.

Spring Oats

Little change for **WPB ISABEL**, which is the current market leader, with **MELRIN** making significant headway. **CANYON** still has support within the market place. Essentially the key to growing spring oats is rainfall in June (key for all oat crops) and timeliness of harvest. New variety **ASTERION** will continue under evaluation and has good disease resistance.

The end market will dictate the preferred variety in almost all the spring quality cereals.

RECOMMENDED LIST CHART PAGES 52 - 53



Spring Cropping

OVERVIEW - PULSES

Combining Peas

A new classification has been added to the descriptive list for 2024 in the form of **Pinks** although only one variety is currently in this classification. The changes from last year remain in place with Large Blues now classified as **Greens** and Whites classified as **Yellows**. The **Maple** and **Marrowfats** classifications remain unchanged. **There have been six new additions again this year to the descriptive list.**

DL PEAS 2024

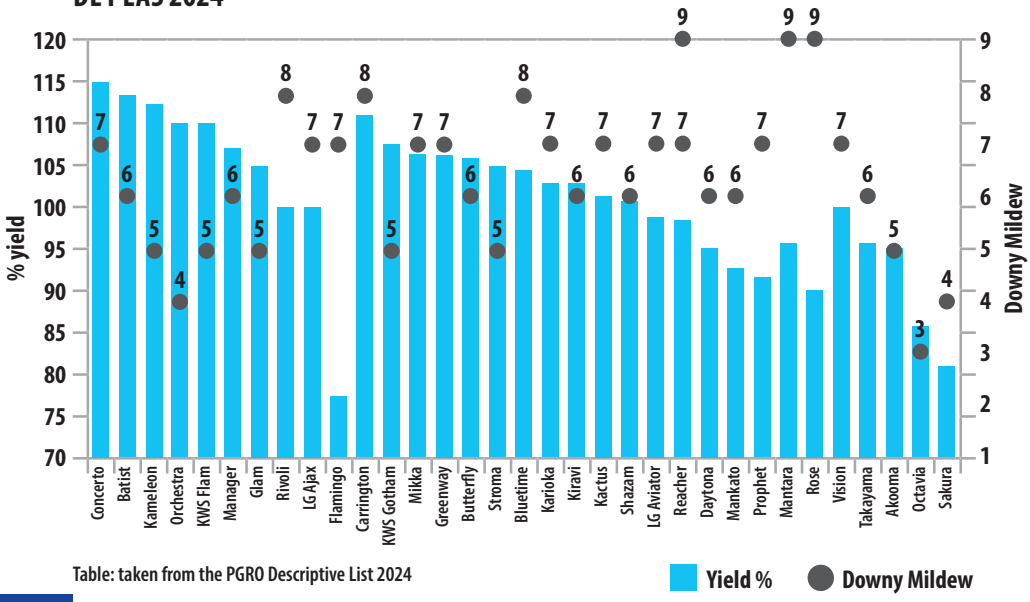


Table: taken from the PGRO Descriptive List 2024

Pinks: New category for 2024.
Visibly different from Yellows with a light pink colouration. Currently only one variety in this category.

- **Flamingo (78)** LS Plant Breeding maintains its top yielding variety status (yielding 6% above its nearest rival). It also the highest rating along with Bluetime for downy mildew (8). A small-seeded variety.

Greens: Remain the largest sector if gauged by the seed production at around 50% of the market.
There are **two new additions** this year, these are **Reacher** (IAR Agri) & **Shazam** (Senova).

- **Carrington (111)** LS PIPlant Breeding maintains its top yielding variety status (yielding 4% above its nearest rival). A small-seeded variety.
- **KWS Gotham (107)** KWS.
- **Mikka (106) & Greenway (106)** IA Agri. Both Y5 data with consistent yields year on year and very similar agronomics.
- **Butterfly (106)** LS Plant Breeding. Dropped back in terms of yield, but still an early maturing variety.
- **Stroma (105)** LS Plant Breeding. Drops back again on yield for the second year by 2%.
- **Bluetime (104)** LS Plant Breeding (2018).
- **Karioka (103)** & Kiravi (103) Senova.
- **Kactus (102)** Senova.
- **Shazam (101)** Senova. **NEW VARIETY 2024**
- **LG Aviator (98)** Limagrain.
- **Reacher (97)** IAR Agri. **NEW VARIETY 2024**

Marrowfats: the second largest sector has now been overtaken by the Yellows, with only one new addition this year, **Vision** Elsoms Seeds.

- **Vision (100)** Elsoms Seeds. New variety this year and straight in as the highest yielding in the category and strongest downy mildew rating at 7.
- **Takayama (96)** LS Plant Breeding. Second highest yielding on the list, just losing out to Vision in both yield and DM rating.
- **Akooma (95)** LS Plant Breeding.
- **Octavia (86)** IAR Agri continues to year five of trials, has a medium straw with a better standing ability than most marrowfats, although late maturing with low rating for downy mildew. Highest rated protein content.
- **Sakura (86)** Daltons entered the list back in 2008. Its agronomics are good, regarding quality, although not the boldest seed relative to its counterparts.

Yellow: Three NEW additions for 2024, **Concerto** (LS Plant Breeding), **Batist** (Senova), **KWS Flam** (KWS).

- **Concerto (115)** LS Plant Breeding. **NEW VARIETY.** Enters the category strongly as the highest yielding variety, 3% higher than Kameleon the previous highest yielding. High Downy Mildew rating (7) although lowest protein content in category.
- **Batist (113)** Senova. **NEW VARIETY.** Second highest yielding in first year. Similar to Concerto as second lowest protein content.
- **Kemeleon (112)** Senova. Knocked off the top spot, but still a high yielding variety. Once again, higher yielding, lower protein.
- **Orchestra (110)** LS Plant Breeding. Lowest downy mildew resistance (4).
- **KWS Flam (102)** KWS. **NEW VARIETY.** A moderate yielder with the tallest straw length in the category.
- **Manager (107)** KWS.
- **Glam (105)** Senova.
- **Rivoli (100)** Senova. Highest downy mildew resistance (8).
- **LG Ajax (100)** Limagrain.

Maple peas:

- **Mantara (95)** Limagrain and **Rose (90)** Daltons remain the only two recommended varieties in this category. Mantra has slightly smaller pea size and protein content and a later maturing variety, otherwise better agronomics, it has shorter straw, is a better stander and resistance to pea wilt. Both have excellent ratings for downy mildew at 9.

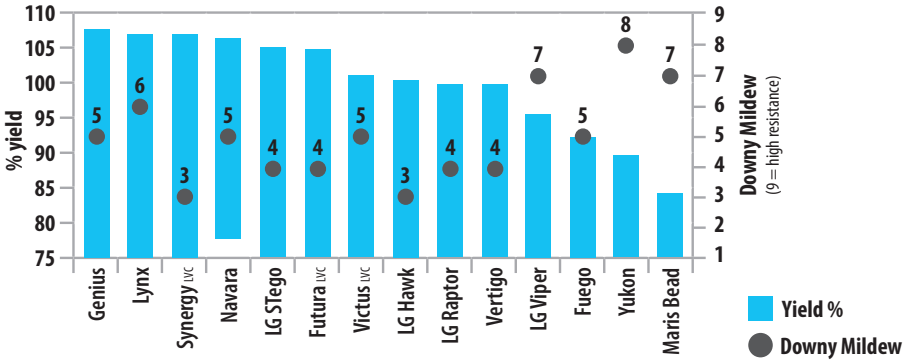
RECOMMENDED LIST CHART PAGE 54

Spring Beans

The descriptive list for 2024

Three new spring bean varieties have been added to the list this year.
The varieties are **Synergy** Saaten Union, **Navara** Senova & **LG Hawk** Limagrain.

DL SPRING BEANS 2024



Tables: taken from the PGRO Descriptive List 2024.

Pale Hilum

Genius 108 LS plant breeding. For the second year since joining the list, it is the highest yielding variety. It has comparable agronomics to Lynx.

Lynx 107 LS plant breeding. Remains "joint" highest yielding variety for 2024. One of the best varieties for Downy mildew. Has performed well over the years since joining the list in 2016.

Synergy *LVC* **(107)** Saaten Union. **NEW VARIETY 2024.** A Low Vicine and Low Convicine variety (introduced 2023). It has joined the list as joint second highest yielding, with good protein content (28.2), however, joint lowest downy mildew resistance in the category at 3.

Navara (106) Senova. **NEW VARIETY 2024.** Good yield for a first-year variety, moderate agronomics across the board.

LG Stego (105) Limagrain.

Futura *LVC* **(104) & Victus** *LVC* **(102)** LS Plant Breeding. Both LVC Varieties added in 2023.

LG Hawk (101) Limagrain. **NEW VARIETY 2024.** Joint lowest downy mildew rating (3).

LG Raptor (99) Limagrain & **Vertigo (99)** LS Plant Breeding. Vertigo one of the oldest varieties on the list, first added 2013.

LG Viper (96) Limagrain. Good downy mildew resistance (7) and highest protein content (28.6).

Fuego (93) Limagrain. Oldest variety in category, first added in 2005! Mainly used as control in trials, but still requested on farm.

Yukon (89) LS Plant Breeding. Lowest yielding but highest downy mildew resistance (8).

Maize Variety Options

Demand for maize seed in the UK is likely to remain high as it is used for forage, AD feedstock and grain.

Our portfolio is selected from material produced by the top breeders, suitable for the British climate. Supplier performance data is supplemented by our regional trials and feedback from our national network of agronomists. This enables us to offer independent advice on the range of varieties best suited to individual farm location and conditions.

We provide varieties from all of the main maize breeders, varieties are selected for their consistency, yield, quality and agronomics.

Scan the QR code to download our 2024 guide

Best-selling varieties for 2024 by maturity class

		FAO	FORAGE	BIOGAS	GRAIN
Very early maturing varieties	KWS TEMPRANO	150	✔		
	RGT DUXXBURY	160	✔		
	P7179	165	✔	✔	✔
Early maturing varieties	PROSPECT	170	✔	✔	✔
	KWS AUTENS	170	✔	✔	✔
	ABILITY	180	✔	✔	
	P7326	180	✔	✔	✔
	P7034	185	✔	✔	✔
	KWS ANASTASIO	180 / 190	✔	✔	✔
Intermediate maturing varieties	P7647	190 / 200	✔	✔	
	DK2684/DK3218	190 / 200	✔	✔	
	MOVANNA	210	✔	✔	
	KWS KEOPS	210	✔	✔	
	MANTILLA	215	✔	✔	
	P7948	220	✔	✔	✔
Late maturing varieties	NEUTRINO	230	✔	✔	
	PETROSCHKA	230	✔	✔	
	AMAROC	240	✔	✔	

Our Services

We have an unrivalled range of specialist services and experts to take your business to the next level. Our services support the agronomy advice at the core of your business.

Omnia

Digital Farming

The next generation farm management system.

Omnia is a revolutionary cloud based system that analyses information from a variety of sources.

With all your information in one place, Omnia allows you to make efficient management decisions and save time.

TerraMap

Digital Soil Mapping

TerraMap produces the highest resolution soil mapping layers at over 800 data reference points per hectare.
We can help you understand your data and create tailored management and variable rate plans quickly and easily.

Healthy Soils

Building Resilience

Understand your soil and make soil management decisions that optimise crop nutrition and productivity.

Environmental Services

Plan the best way forward to benefit from the agri-environment opportunities available, including Sustainable Farming Incentive, with our practical advice and support.

Agroecology Services

Deliver management plans focusing on soil and plant health to produce profitable crops with minimal, targeted inputs, whilst delivering an uplift in biodiversity.

Farm Business Consultancy

We appraise your business to implement change and increase profitability, building a business that's fit for your future.

Carbon Services

Measure and manage carbon on your farm. TerraMap provides an accurate baseline measurement of carbon in the soil and Omnia is unique in providing the ability to map carbon use efficiency per ha or per tonne.

Whatever your question, we have the answer. Speak to us and see how we can help you.

Scan the QR code to find out more.

Forage Options

Grass Wise - Quality Grass Seed

Fastgrass

A short-term mixture for up to 18 months productivity. Will produce large volumes of silage from a high input system with a winter grazing option. Suitable for any livestock class and an excellent choice for short term grass break in arable rotation.

Clamp Buster

A highly productive short term mixture suited to high input, intensive systems relying on large volumes of high quality forage. CLAMP BUSTER is suitable for red meat and dairy systems which can take advantage of long growing seasons.

Complies with NUM2

Clamp Buster red

Red Clover has been added to this mixture for use with less intensive fertiliser regimes. CLAMP BUSTER RED produces large volumes of high protein silage with an aftermath ideal for lamb finishing.

Suppressor

Suppressor is a flexible short-term grass seed option created by the HLH Grasswise and Technical Teams to out compete and suppress blackgrass in arable rotations.

Super Sward

SUPERSWARD is an intensive 3 – 5 year ley, which expands the shoulders of the season for those who can utilise it. Up to 3 cuts and possible grazing for any livestock class; this ley will yield 10% more than a perennial based ley under a higher nitrogen system.

Emerald

EMERALD is a flexible long-term perennial ryegrass ley suitable for intensive dairy, beef or sheep systems wishing to make use of grass for both grazing and silage. An early bite is ideal for lambing or calving turnout.

Complies with NUM2

Emerald plus

A flexible long-term ley suitable for dairy, beef or sheep systems wishing to make use of grass for both grazing and silage but with a reduced reliance on bagged nitrogen. An early bite is ideal for lambing or calving turnout.

Gold

A muti-purpose, long term mixture for dairy, beef or sheep systems. Varieties included provide season long growth and timothy is added for extra sole and fibre.

Complies with NUM2

Gold plus

A muti-purpose, long term mixture for dairy, beef or sheep systems. Varieties included provide season long growth and timothy is added for extra sole and fibre. The addition of white clover reduces reliance on bagged Nitrogen and improves intakes and protein for stock.

Winter triticale Descriptive List 2024/25

AHDB RECOMMENDEDLISTS

AHDB DESCRIBED

Variety status	Lumaco	RGT Eleac NEW	KWS Fido C	Brehat NEW	SU Askadus NEW	Kasyno C	Cyrkon	DL candidate RT15108[1]	Average LSD (5%)
Grain yield (as % treated control)									
Fungicide-treated (10.7 t/ha)	104	101	101	100	100	99	95	-	7.6
Number of trials	12	8	16	8	8	16	16	-	
Disease resistance									
Yellow rust (1–9)	9	9	6	9	7	8	4	-	0.9
Agronomic features									
Lodging (%)	[6]	[1]	[0]	[20]	[0]	[2]	[0]	-	-
Straw length (cm)	121	[114]	115	[122]	[108]	104	100	-	5.7
Ripening (days +/- KWS Fido)	-1	[0]	0	[+2]	[+1]	+2	0	-	2.3
Grain quality									
Specific weight (kg/hl)	73.4	69.6	73.8	70.5	73.5	71.9	71.7	-	1.3
Protein content (%)	10.8	10.5	10.4	10.7	10.9	10.9	10.8	-	0.4
Breeder/UK contact									
Breeder	Lant	R2n	Lant	Desp	Nord	Dank	Hod	R2n	
UK contact	Sen	RAGT	Sen	Sen	SU	Sen	Dalt	RAGT	
Status in DL system									
Year first listed	23	24	14	24	24	18	16	-	
DL status	P2	P1	-	P1	P1	-	-	-	

Varieties no longer listed: Belcanto, SU Libonious, Temuco, Tender PZO and Tribeca

The data in this table is provided for information only and does not constitute a recommendation.

On the 1–9 scale, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).
Candidate varieties will be considered for the DL 2025/26.

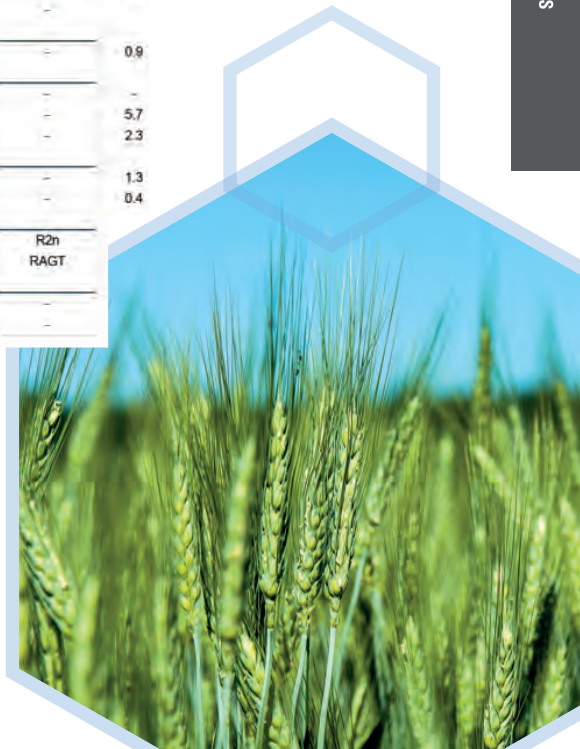
[1] Data cannot be published as variety has not completed GB and NI Variety Lists testing.

C = Yield control
[ ] = Limited data
P1 = First year of listing
P2 = Second year of listing

Dalt = Dalton Seeds (**daltonseeds.co.uk**)
Dank = Danko Hodowla Roslin, Poland (**danko.pl**)
Desp = Maison Florimond Desprez, France (**florimond-desprez.com**)
Hod = Hodowla Roslin Strzelce, Poland (**hr-strzelce.pl**)
Lant = Lantmannen SW Seed BV (**lantmannen.com**)

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

Nord = Nordsaat, Germany (**nordsaat.de**)
R2n = RAGT, France (**ragt.co.uk**)
RAGT = RAGT Seeds (**ragt.co.uk**)
Sen = Senova (**senova.uk.com**)
SU = Saaten Union UK (**saaten-union.co.uk**)



Winter Rye Descriptive List 2024/25

AHDB RECOMMENDEDLISTS

AHDB DESCRIBED	KWS Igor	KWS Tayo	KWS Glimor	Astrancs	SU Baresi	KWS Inspirator	SU Perspectiv	SU Karlsson	KWS Serafino	SU Performer	SU Arvid	SU Bandix	Poseidon	DL candidates: HYH339[1]	DL candidates: KWS Emphor	DL candidates: KWS Baridor	DL candidates: KWS Curator	Average LSD (5%)
Variety type	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	-	Hybrid	Hybrid	Hybrid	
Variety status			NEW	NEW		NEW	NEW	NEW		C								
Grain yield (as % treated control)																		
Fungicide-treated (10.2 t/ha)	104	104	104	104	103	103	102	102	100	100	100	97	95	-	[103]	[100]	[97]	5.3
Number of trials	14	19	8	8	19	8	8	8	19	19	19	18	18	-	3	3	3	-
Disease resistance																		
Brown rust (1–9)	3	7	[2]	[3]	4	[7]	[4]	[7]	7	4	5	5	3	-	-	-	-	3.0
Agronomic features																		
Lodging (%)	[20]	[7]	[1]	[8]	[13]	[16]	[14]	[5]	[11]	[33]	[41]	[15]	[1]	-	[14]	[31]	[35]	-
Straw length (cm)	129	131	[131]	[130]	131	[129]	[131]	[135]	132	132	137	134	132	-	[129]	[134]	[135]	6.6
Ripening (days +/- SU Performer)	0	+1	0	0	0	0	0	0	0	0	0	0	-1	-	[+1]	[+1]	[+1]	1.6
Grain quality																		
Protein content (%)	8.8	9.0	8.9	9.6	8.6	8.6	8.9	9.2	8.9	9.0	8.9	9.5	9.7	-	[8.0]	[8.4]	[8.4]	0.4
Hagberg Falling Number	236	248	251	181	222	265	234	230	256	218	183	194	165	-	[234]	[229]	[231]	26.1
Specific weight (kg/hl)	75.7	76.3	77.2	77.0	77.4	75.1	77.3	77.9	76.5	77.1	76.2	76.9	75.6	-	[75.9]	[76.1]	[77.4]	1.0
Breeder/UK contact																		
Breeder	KWSGmbh	KWSGmbh	KWSGmbh	NS	Hybro	KWSGmbh	Hybro	Hybro	KWSGmbh	Hybro	Hybro	Hybro	NS	Hybro	KWSGmbh	KWSGmbh	KWSGmbh	-
UK contact	KWS	KWS	KWS	Sen	SU	KWS	SU	SU	KWS	SU	SU	SU	Dalt	SU	KWS	KWS	KWS	-
Status in DL system																		
Year first listed	23	22	24	24	22	24	24	24	21	17	21	22	21	-	-	-	-	-
DL status	P2	-	P1	P1	-	P1	P1	P1	-	-	-	-	-	-	-	-	-	-

Varieties no longer listed: SU Elrond and SU Pluralis.
The data in this table is provided for information only and does not constitute a recommendation.

On the 1–9 scale, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).
Candidate varieties will be considered for the DL 2025/26.

[1] Data cannot be published as variety has not completed GB and NI Variety Lists testing.

C = Yield control
[ ] = Limited data

P1 = First year of listing
P2 = Second year of listing

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

Dalt = Dalton Seeds (**daltonseeds.co.uk**)
Hybro = Hybro, Germany (**saaten-union.co.uk**)
KWS = KWS UK (**kws-uk.com**)

KWSGmbh = KWS Lochow GmbH (**kws-uk.com**)
NS = Nordic Seed, Denmark (**nordicseed.com**)

Sen = Senova (**senova.uk.com**)
SU = Saaten Union UK (**saaten-union.co.uk**)

Winter Oilseed Rape 2024/25

AHDB RECOMMENDEDLISTS

YIELD, QUALITY, DISEASE RESISTANCE AND AGRONOMY

AHDB RECOMMENDED	LG Armada	LG Academic	LG Adeline	Turing	Dolphin	LG Auckland	Attica	Murray	Vegas	Ambassador	LG Wagner	Aurelia	LG Aviron	LG Adonis	PT303	Dart	Tennyson	Average LSD (6%)
	Hybrid																	
Variety type	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	
Scope of recommendation	UK	UK	UK	UK	E/W	E/W	UK	E/W	UK	E/W	N	UK	UK	E/W	UK	E/W	E/W	
Variety status	NEW	NEW	NEW		NEW					C		C	*	*	*	*	*	
Gross output, yield adjusted for oil content (% treated control)																		
United Kingdom (5.1 t/ha)	107	106	106	106	105	105	105	105	104	104	103	103	102	101	101	99	96	4.2
East/West region (5.0 t/ha)	106	106	105	105	106	105	105	105	104	104	102	103	102	101	101	100	97	4.8
North region (6.0 t/ha)	107	107	108	105	[102]	103	104	102	102	101	108	102	103	100	100	92	93	4.7
Seed yield (% treated control)																		
United Kingdom (4.8 t/ha)	106	106	106	107	103	104	105	105	104	104	103	103	103	100	100	99	96	4.0
East/West region (4.7 t/ha)	106	106	106	107	103	105	105	106	104	104	102	103	103	100	100	100	97	4.5
North region (5.5 t/ha)	107	107	109	107	[100]	102	104	103	102	102	108	103	104	99	100	92	94	4.6
Untreated yield (% untreated control) – UK																		
Gross output (5.3 t/ha)	-	-	-	103	-	105	102	105	106	103	[106]	104	105	102	100	96	94	6.4
Seed yield (4.9 t/ha)	-	-	-	104	-	104	102	105	105	103	[106]	104	107	101	100	96	94	6.1
Disease resistance																		
Light leaf spot (1–9)	7	7	7	7	6	7	7	7	7	7	7	7	7	7	7	7	7	0.6
Stem canker (1–9)	6	6	6	4	7	5	5	8	9	6	5	5	6	6	6	5	7	1.0
Verticillium	-	-	-	I	[MR]	[I]	[S]	[MR]	[I]	S	[S]	[I]	[S]	[MR]	-	[I]	[MR]	-
TuYV	R	R	R	-	R	R	R	-	-	R	R	R	R	R	R	R	R	-
Agronomic features																		
Resistance to lodging (1–9)	[8.0]	[7.5]	[8.0]	[7.5]	[8.0]	[7.5]	[7.5]	[8.0]	[7.5]	[8.0]	[8.0]	[7.5]	[7.5]	[7.5]	[7.5]	[7.5]	[7.5]	0.1
Stem stiffness (1–9)	8	8	8	8	9	7	8	9	8	8	8	7	7	8	[8]	8	8	0.6
Shortness of stem (1–9)	5	5	6	6	6	6	6	6	6	6	6	6	6	6	5	6	6	0.3
Plant height (cm)	152	152	150	142	143	148	148	148	143	146	142	143	147	140	157	143	143	3.2
Earliness of flowering (1–9)	5	7	7	6	7	7	7	7	7	7	7	7	8	7	5	7	6	0.4
Earliness of maturity (1–9)	5	5	5	5	4	5	5	5	5	6	5	5	6	5	5	5	5	0.4
Pod shatter resistance	R	R	R	-	-	R	R	-	-	R	R	R	R	-	-	-	-	-
Seed quality (at 9% moisture)																		
Oil content, fungicide-treated (%)	45.5	45.2	44.9	44.4	46.6	45.5	45.3	44.5	45.4	44.7	45.0	44.8	44.4	46.1	45.7	45.2	44.8	0.3
Glucosinolate (µmol/g)	12.6	14.1	14.7	10.4	13.0	12.2	12.0	11.1	11.0	10.9	11.7	10.2	11.2	9.7	8.0	10.0	11.1	-

Varieties no longer listed: Crossfit, DK Expectation, DK Imprint CL, Flemming, LG Antigua, PT279CL, Respect and V 316 OL.
For this table, DK Expansion was also a control variety but is no longer listed.
High Erucic Acid (HEAR) and semi-dwarf (SD) varieties are described. Data is provided for information only and does not constitute a recommendation.
Yield figures for regions where the variety is not recommended are provided for information only and are indicated in italics.
Herbicide-tolerant varieties have a specific recommendation for tolerance to specific imidazolinone herbicides (a Clearfield® variety).
Clubroot-resistant varieties have a specific recommendation for growing on land infected with common strains of clubroot.
They are believed to be resistant to common strains of clubroot, but this has not been verified in RL tests. These varieties should only be used in line with AHDB clubroot management guidelines, to reduce the risk of resistance breakdown.

On the 1–9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).
The target (spring) plant population is 40 plants/m^2 for RL trials. Maximum seed rate is 70 seeds/m^2 and may be lower if conditions permit.
Glucosinolate contents are taken from the GB and NI Variety Lists trial data.
Untreated trials are treated for sclerotinia at flowering.
Treatment benefit at co-located sites is calculated from a subset of trial locations where both treated and untreated trials are present. Data is presented as a percentage of the treated control varieties at these sites only.

Winter Oilseed Rape 2024/25

AHDB RECOMMENDEDLISTS

YIELD, QUALITY, DISEASE RESISTANCE AND AGRONOMY

AHDB RECOMMENDED

	Pi Pinnacle	Tom	Annika	Acacia	Aspire	Amarone	Matrix CL	Beatrix CL	Miraculix CL	LG Constructor CL	Crocodile	Crome	Resort	PX131	Average LSD (5%)
	Conventional open-pollinated						Herbicide tolerant				Clubroot resistant		Described		
Variety type	Conv	Conv	Conv	Conv	Conv	Conv	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	Hybrid	
Scope of recommendation	UK	UK	E/W	UK	N	N	UK Sp	N Sp	N Sp	UK Sp	E/W Sp	UK Sp	UK HEAR	UK SD	
Variety status	NEW				C				NEW	*					
Gross output, yield adjusted for oil content (% treated control)															
United Kingdom (5.1 t/ha)	**102**	**102**	*99*	**98**	*96*	*95*	**96**	*96*	*95*	**92**	*98*	**96**	**88**	**88**	4.2
East/West region (5.0 t/ha)	**103**	**101**	**99**	**98**	*96*	*94*	**97**	*96*	*95*	**93**	**99**	**96**	**88**	**88**	4.8
North region (6.0 t/ha)	**101**	**102**	*98*	**99**	**98**	**100**	**94**	**92**	**96**	**89**	*95*	**96**	**87**	**92**	4.7
Seed yield (% treated control)															
United Kingdom (4.8 t/ha)	**104**	**101**	*99*	**98**	*96*	*96*	**96**	*94*	*94*	**93**	*99*	**95**	**88**	**87**	4.0
East/West region (4.7 t/ha)	**104**	**101**	**99**	**98**	*95*	*95*	**96**	*95*	*94*	**94**	**99**	**95**	**88**	**87**	4.5
North region (5.5 t/ha)	**102**	**102**	*98*	**99**	**98**	**100**	**94**	**92**	**96**	**90**	*96*	**95**	**86**	**91**	4.6
Untreated yield (% untreated control) – UK															
Gross output (5.3 t/ha)	-	103	96	98	96	99	95	95	-	87	98	94	87	86	6.4
Seed yield (4.9 t/ha)	-	102	96	99	96	100	94	94	-	88	99	93	87	85	6.1
Disease resistance															
Light leaf spot (1–9)	7	7	7	6	7	7	6	5	5	5	6	6	5	6	0.6
Stem canker (1–9)	4	5	5	5	5	4	7	6	7	4	3	3	4	5	1.0
Verticillium	[I]	[I]	[MR]	[I]	[I]	[S]	[I]	I	[I]	[S]	[I]	[MR]	[I]	[MR]	-
TuYV	-	-	R	-	R	R	R	R	R	R	-	-	-	-	-
Agronomic features															
Resistance to lodging (1–9)	[8.0]	[7.9]	[8.0]	[8.0]	[7.9]	[8.0]	[7.7]	[7.9]	[7.9]	[7.9]	[7.9]	[7.9]	[8.0]	[8.0]	0.1
Stem stiffness (1–9)	9	9	9	8	8	8	7	8	8	8	[8]	8	8	8	0.6
Shortness of stem (1–9)	6	6	6	7	7	7	5	6	5	6	6	6	6	9	0.3
Plant height (cm)	148	140	142	138	134	136	151	145	151	142	141	139	143	110	3.2
Earliness of flowering (1–9)	5	7	6	6	7	7	6	7	7	6	6	7	7	6	0.4
Earliness of maturity (1–9)	5	5	4	5	5	5	6	5	6	6	6	5	5	5	0.4
Pod shatter resistance	-	-	-	-	-	-	R	R	R	R	-	-	-	R	-
Seed quality (at 9% moisture)															
Oil content, fungicide-treated (%)	44.4	45.2	44.9	44.9	45.2	44.7	45.6	45.8	45.6	44.1	44.8	45.8	45.5	46.0	0.3
Glucosinolate (µmol/g)	13.0	11.6	11.6	8.1	9.9	11.9	14.2	15.3	15.2	15.8	12.8	10.8	14.0	9.4	-

UK = Recommended for the UK
E/W = Recommended for the East/West region
N = Recommended for the North region
Sp = Specific recommendation
Conv = Conventional open-pollinated variety
C = Yield control
* = Variety no longer under test in RL trials

TuYV = *Turnip yellows virus*
[ ] = Limited data
P1 = First year of listing
P2 = Second year of listing

R = Believed to be resistant to the trait, but this has not been verified in RL tests
MR = Moderately resistant
I = Intermediate
S = Susceptible

LSD = Least significant difference
Average LSD (5%):
Varieties that are more than one LSD apart are significantly different at the 95% confidence level

Winter Wheat 2024/25

AHDB RECOMMENDEDLISTS

YIELD, DISEASE RESISTANCE AND AGRONOMY

AHDB RECOMMENDED

	KWS Zyatt	SY Cheer	Skyfall	Crusoe	RGT Illustrious	KWS Extase	KWS Ultimatum	KWS Palladium	Mayflower	Bamford	RGT Wilkinson	KWS Brium	RGT Rashid	Almara	LG Illuminate	LG Astronomer	Average LSD (5%)
End-use group	UKFM Group 1					UKFM Group 2				UKFM Group 3							
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	E	N	UK	UK	
Variety status		NEW	C			C				NEW		*		NEW	*		
Fungicide-treated grain yield (% treated control)																	
United Kingdom (11.0 t/ha)	99	97	96	95	95	101	101	100	97	106	100	100	99	99	98	98	2.3
East region (10.9 t/ha)	98	97	96	95	95	101	101	99	97	105	101	100	100	98	98	98	2.7
West region (11.2 t/ha)	99	98	96	96	96	102	101	101	97	107	99	99	98	99	99	98	3.0
North region (11.3 t/ha)	97	[98]	95	94	94	99	101	99	96	[105]	99	100	98	[102]	100	97	3.4
Untreated grain yield (% treated control)																	
United Kingdom (11.0 t/ha)	71	84	66	75	82	93	90	90	91	92	83	80	78	87	83	85	4.8
Disease resistance																	
Mildew (1–9)	7	[8]	6	7	6	7	7	8	7	[6]	7	7	3	[6]	5	4	1.5
Yellow rust (1–9)	3	7	3	8	7	7	9	9	9	7	7	9	8	8	7	8	0.6
Yellow rust (young plant)	s	-	s	s	s	s	r	r	r	-	s	s	r	-	r	r	
Brown rust (1–9)	7	6	9	3	5	6	6	5	6	6	5	5	5	6	6	7	0.6
Septoria tritici (1–9)	6.3	6.0	5.8	6.3	5.9	7.4	6.5	7.3	8.9	6.7	5.5	5.7	6.1	6.0	5.6	5.9	0.7
Eyespot (1–9)	6@	4	6@	5	6@	4	6	6	5@	6@	6@	5	5	4	5	5	1.5
Fusarium ear blight (1–9)	6	[7]	7	7	6	6	6	6	6	[5]	6	6	7	[6]	6	6	0.4
Orange wheat blossom midge	-	-	R	-	-	-	-	-	-	-	-	-	R	R	R	R	
Agronomic features																	
Resistance to lodging without PGR (1–9)	8	8	8	7	8	7	6	8	6	7	8	8	8	6	7	7	1.4
Resistance to lodging with PGR (1–9)	8	7	7	8	9	8	7	8	7	7	8	7	8	7	7	9	1.0
Lodging without PGR (%)	1	1	1	2	1	3	6	2	6	3	1	2	2	6	3	2	-
Lodging with PGR (%)	1	3	3	2	0	2	4	2	4	4	1	4	2	3	3	0	-
Straw length without PGR (cm)	86	91	87	84	91	92	87	85	90	90	84	93	87	86	85	90	1.5
Straw length with PGR (cm)	76	82	78	77	81	86	77	78	83	83	78	85	80	79	77	80	1.4
Ripening (days +/- Skyfall)	0	+1	0	+1	+1	-1	+1	-1	0	+1	+2	+2	+3	+1	+1	+2	0.7
Resistance to sprouting (1–9)	6	-	5	6	6	6	[6]	[6]	[6]	-	[5]	[6]	[6]	-	[6]	[7]	1.1

Varieties no longer listed: Elation, Elicit, KWS Firefly, KWS Guium, KWS Jackal, KWS Siskin, LG Prince, Merit, RGT Saki and Theodore.
For this table, KWS Barrel was also a control variety but is no longer listed.
SY Cheer is a provisional UKFM Group 1 variety. This rating will be confirmed in Spring 2024 once commercial assessments have been completed.
RGT Wolverine has a specific recommendation for resistance to *Barley yellow dwarf virus* (BYDV). Resistance to BYDV has not been verified in RL tests.

Comparisons of varieties across regions are not valid.
On the 1–9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).

Winter Wheat 2024/25

AHDB RECOMMENDEDLISTS

YIELD, DISEASE RESISTANCE AND AGRONOMY

AHDB RECOMMENDED

	LG Redwald	Blackstone	KWS Zealum	RGT Bairstow	LG Skyscraper	RGT Stokes	Swallow	LG Beowulf	Champion	SY Insitor	Oxford	KWS Dawsum	Gleam	Graham	KWS Cranium	LG Typhoon	RGT Wolverine	Costello	Average LSD (5%)
End-use group	Soft Group 4							Hard Group 4											
Scope of recommendation	E&W	UK	N	UK	UK	N&W	N	UK	UK	UK	E&W	UK	UK	UK	UK	UK	Sp	UK	
Variety status		NEW			C		*	NEW					C						
Fungicide-treated grain yield (% treated control)																			
United Kingdom (11.0 t/ha)	106	103	102	102	102	101	96	106	106	104	104	103	103	102	102	100	99	98	2.3
East region (10.9 t/ha)	105	103	103	102	103	100	96	106	106	104	104	103	103	101	102	100	99	99	2.7
West region (11.2 t/ha)	107	101	102	103	101	103	96	106	106	105	104	104	103	104	100	100	100	98	3.0
North region (11.3 t/ha)	104	[103]	102	102	101	103	100	[107]	103	105	101	105	103	102	102	101	99	99	3.4
Untreated grain yield (% treated control)																			
United Kingdom (11.0 t/ha)	89	87	84	84	83	83	76	91	90	79	88	91	80	89	79	89	72	83	4.8
Disease resistance																			
Mildew (1–9)	5	[7]	7	6	7	6	6	[6]	7	7	5	8	6	6	5	7	6	8	1.5
Yellow rust (1–9)	7	9	9	8	7	7	7	9	8	4	8	9	5	7	9	9	4	9	0.6
Yellow rust (young plant)	s	-	r	r	s	r	r	-	r	s	r	r	s	s	r	r	s	r	
Brown rust (1–9)	7	6	5	6	5	5	5	5	5	6	6	7	6	5	4	6	7	5	0.6
Septoria tritici (1–9)	6.5	6.2	6.1	5.9	4.9	6.0	5.1	6.7	7.9	6.4	6.6	6.3	5.7	6.6	5.8	7.2	6.0	5.8	0.7
Eyespot (1–9)	4	5	5	4	5	4	4	6	4	5	5	5	5	4	5	5	6	5	1.5
Fusarium ear blight (1–9)	6	[8]	7	6	6	6	6	[6]	6	7	6	7	6	6	7	6	6	7	0.4
Orange wheat blossom midge	R	R	R	R	R	-	R	R	R	R	R	-	R	-	R	R	-	-	
Agronomic features																			
Resistance to lodging without PGR (1–9)	5	8	6	6	6	5	8	8	6	6	7	7	7	7	8	7	7	7	1.4
Resistance to lodging with PGR (1–9)	5	7	7	6	6	7	9	8	6	7	7	7	7	8	8	7	7	8	1.0
Lodging without PGR (%)	22	2	6	10	8	12	1	1	6	7	3	3	3	3	2	3	3	2	-
Lodging with PGR (%)	25	3	3	7	10	6	0	2	7	4	3	3	4	2	2	3	3	2	-
Straw length without PGR (cm)	95	92	90	92	93	92	80	90	89	95	86	85	89	91	90	88	88	85	1.5
Straw length with PGR (cm)	88	85	82	82	84	81	74	81	82	84	79	77	78	81	81	79	79	76	1.4
Ripening (days +/- Skyfall)	+2	+2	+2	+2	0	+3	+1	+2	0	+1	+2	+1	0	-1	+3	+2	+2	+2	0.7
Resistance to sprouting (1–9)	[6]	-	[6]	[6]	6	[6]	[5]	-	[6]	5	[6]	[6]	6	6	[6]	[5]	[6]	6	1.1

UKFM = UK Flour Millers
UK = Recommended for the UK
E = Recommended for the East region
W = Recommended for the West region
N = Recommended for the North region

C = Yield control
* = Variety no longer under test in RL trials
PGR = Plant growth regulator
[ ] = Limited data
[[ ]] = Very limited data

P1 = First year of listing
P2 = Second year of listing
Y = Suited to that market
[Y] = May be suited to that market

r = Young plant is resistant to yellow rust as shown by UKCPVS tests and RL trial data
s = Young plant is susceptible to yellow rust as shown by UKCPVS tests and RL trial data
@ = Believed to carry the *Pch1* Rendezvous resistance gene to eyespot, but this has not been verified in RL tests
R = Believed to be resistant to the trait, but this has not been verified in RL tests

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

Winter Barley 2024/25

AHDB RECOMMENDEDLISTS

YIELD, DISEASE RESISTANCE, AGRONOMY, MAIN MARKET OPTIONS AND GRAIN QUALITY

AHDB RECOMMENDED

	Buccaneer	Electrum	Craft	LG Caravelle	LG Capitol	Lightning	Bolivia	KWS Tardis	Bolton	Bordeaux	LG Mountain	LG Dazzle	KWS Orwell	Valerie	Average LSD (5%)
End-use group	Two-row malting			Two-row feed											
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	
Variety status		C	C		NEW			C		*					
Fungicide-treated grain yield (% treated control)															
United Kingdom (9.8 t/ha)	99	96	93	106	106	103	103	103	103	102	101	101	100	99	2.5
East region (9.5 t/ha)	100	96	93	107	107	104	104	104	105	104	102	103	99	99	3.2
West region (9.7 t/ha)	98	96	93	105	[103]	102	102	101	101	100	102	99	100	97	4.1
North region (10.5 t/ha)	100	96	93	104	[105]	103	103	103	101	102	101	101	99	100	3.5
Untreated grain yield (% treated control)															
United Kingdom (9.8 t/ha)	87	80	80	90	89	90	88	85	86	82	84	88	83	74	4.3
Disease resistance															
Mildew (1–9)	6	6	6	7	6	6	8	5	6	6	6	5	3	7	1.3
Brown rust (1–9)	8	7	7	7	7	8	8	6	7	6	7	8	7	4	0.7
Rhynchosporium (1–9)	7	5	6	6	6	6	6	6	5	4	5	7	6	6	1.1
Net blotch (1–9)	6	5	5	6	5	6	6	6	5	5	4	5	5	5	0.8
BaYMV1 & BaMMV	R	R	R	R	R	R	R	R	R	R	R	R	R	R	-
BaYMV2	-	-	-	-	-	-	-	-	-	-	-	-	-	R	-
Agronomic features															
Resistance to lodging without PGR (1–9)	[7]	7	8	[8]	[7]	6	[8]	8	8	8	7	7	8	8	1.4
Resistance to lodging with PGR (1–9)	7	7	8	7	7	6	8	8	8	8	7	7	8	8	1.1
Lodging without PGR (%)	[6]	4	2	[2]	[3]	15	[2]	1	1	1	5	4	2	2	-
Lodging with PGR (%)	3	3	1	2	2	5	1	0	1	1	3	3	1	1	-
Straw length without PGR (cm)	100	102	99	93	[94]	95	93	97	95	95	94	95	96	95	3.7
Straw length with PGR (cm)	91	92	91	86	85	89	90	86	84	85	85	86	87	87	2.3
Brackling (%)	4	9	10	8	11	13	15	6	8	9	27	7	8	8	-
Ripening (days +/- KWS Orwell)	+1	-1	0	0	0	-1	0	0	0	0	-1	+1	0	-1	1.1
Main market options															
MBC malting approval for brewing use	P	F	F	-	-	-	-	-	-	-	-	-	-	-	
Grain quality															
Specific weight (kg/hl)	69.6	69.7	69.9	71.4	69.9	68.8	69.9	70.1	69.3	70.5	70.7	68.9	68.9	70.6	0.8
Screenings (% through 2.25 mm)	2.2	2.4	2.3	1.7	1.9	1.9	1.3	1.7	1.6	1.3	1.9	2.0	1.7	0.8	0.7
Screenings (% through 2.5 mm)	6.4	6.8	6.8	4.5	5.2	5.4	3.3	5.2	4.8	3.7	5.7	5.9	5.4	2.1	1.8
Nitrogen content (%)	1.68	1.71	1.68	-	-	-	-	-	-	-	-	-	-	-	0.11
Malting quality															
Hot water extract (l deg/kg)	307.9	306.9	308.2	-	-	-	-	-	-	-	-	-	-	-	2.2

Varieties no longer listed: Belmont, California, Funky, KWS Cassia, KWS Hawking and Surge.
KWS Feeris and SY Buzzard have a specific recommendation for tolerance to *Barley yellow dwarf virus* (BYDV). Tolerance to BYDV has not been verified in RL tests.
Growers are strongly advised to check with their buyer before committing to a malting variety without full MBC approval.
All winter barley varieties in RL 2024/25 are believed to be resistant to *barley yellow mosaic virus* strain 1 (BaYMV1) and *barley mild mosaic virus* (BaMMV).

Winter Barley 2024/25

AHDB RECOMMENDEDLISTS

YIELD, DISEASE RESISTANCE, AGRONOMY, MAIN MARKET OPTIONS AND GRAIN QUALITY

AHDB RECOMMENDED

	SY Thunderbolt#	SY Kingsbarn#	SY Kingston#	SY Canyon#	Belfry#	SY Nephin#	Bazooka#	SY Buzzard#	KWS Feeris	Average LSD (5%)
End-use group	Six-row feed									
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	Sp	Sp	
Variety status	*	C						NEW	C	
Fungicide-treated grain yield (% treated control)										
United Kingdom (9.8 t/ha)	107	107	107	106	105	104	104	103	102	2.5
East region (9.5 t/ha)	106	106	106	105	105	105	104	104	102	3.2
West region (9.7 t/ha)	108	107	108	106	104	102	104	[101]	102	4.1
North region (10.5 t/ha)	107	107	106	106	105	105	106	[102]	100	3.5
Untreated grain yield (% treated control)										
United Kingdom (9.8 t/ha)	88	83	87	91	87	92	83	82	84	4.3
Disease resistance										
Mildew (1–9)	7	7	7	7	6	6	5	6	5	1.3
Brown rust (1–9)	6	5	6	6	6	7	5	6	6	0.7
Rhynchosporium (1–9)	7	7	7	6	7	7	7	6	6	1.1
Net blotch (1–9)	6	5	6	6	5	6	5	7	6	0.8
BaYMV1 & BaMMV	R	R	R	R	R	R	R	R	R	-
BaYMV2	-	-	-	-	-	-	-	-	-	-
Agronomic features										
Resistance to lodging without PGR (1–9)	5	6	6	6	7	[6]	6	[8]	8	1.4
Resistance to lodging with PGR (1–9)	6	7	5	6	8	7	6	7	7	1.1
Lodging without PGR (%)	25	15	18	13	5	[10]	11	[1]	2	-
Lodging with PGR (%)	8	4	11	6	1	3	5	2	3	-
Straw length without PGR (cm)	115	116	120	119	113	113	120	[115]	102	3.7
Straw length with PGR (cm)	107	106	109	109	104	104	111	107	97	2.3
Brackling (%)	18	16	19	11	11	23	14	10	12	-
Ripening (days +/- KWS Orwell)	-1	0	-1	-1	0	0	0	-1	0	1.1
Main market options										
MBC malting approval for brewing use	-	-	-	-	-	-	-	-	-	
Grain quality										
Specific weight (kg/hl)	70.2	70.2	70.1	71.1	68.8	70.7	69.9	69.0	69.2	0.8
Screenings (% through 2.25 mm)	2.0	1.5	2.7	1.9	2.7	3.5	2.6	3.2	1.4	0.7
Screenings (% through 2.5 mm)	7.2	5.5	9.0	6.2	9.3	12.2	8.3	13.1	5.6	1.8
Nitrogen content (%)	-	-	-	-	-	-	-	-	1.74	0.11
Malting quality										
Hot water extract (l deg/kg)	-	-	-	-	-	-	-	-	295.9	2.2

On the 1–9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).
Comparisons of variety performance across regions are not valid.

UK = Recommended for the UK
Sp = Specific recommendation
C = Yield control
* = Variety no longer under test in RL trials
# = Hybrid variety

PGR = Plant growth regulator
[ ] = Limited data
R = Believed to be resistant to the trait, but this has not been verified in RL tests

MBC = Malting Barley Committee
P = Provisional MBC approval
F = Full MBC approval

P1 = First year of listing
P2 = Second year of listing

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

Spring Barley 2024 AHDB RECOMMENDEDLISTS

YIELD, DISEASE RESISTANCE, AGRONOMY, MAIN MARKET OPTIONS AND QUALITY

AHDB RECOMMENDED

	MBC malting varieties																			
	Skyway	Firefoxx	Laureate	LG Diablo	RGT Planet	KWS Sassy	SY Signet	Diviner	SY Tennyson	Bounty	NOS Gambit	Belter	NOS Munro	LG Aquarius	Olsen	Hurler	Fairing	CB Score	Average LSD (5%)
End-use group	Approved						Provisional			Under test for malting						Feed	Described		
Scope of recommendation	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK	UK Gr.Dis	UK Null-Lox	
Variety status	C	C	C	C	C					NEW	NEW	NEW	NEW	NEW	NEW				
Fungicide-treated grain yield (% treated control)																			
United Kingdom (7.8 t/ha)	102	101	101	99	97	95	102	102	102	105	103	103	103	103	102	104	91	98	2.3
East region (7.9 t/ha)	103	101	101	99	97	93	103	101	102	107	104	104	102	105	103	104	90	98	3.1
West region (7.4 t/ha)	103	102	102	98	96	96	100	101	101	[105]	[105]	[103]	[103]	[102]	[101]	104	93	98	3.6
North region (8.2 t/ha)	101	102	100	100	97	96	103	103	102	105	101	103	103	101	102	104	90	99	2.7
Untreated grain yield (% treated control)																			
United Kingdom (7.8 t/ha)	91	90	92	88	87	86	91	90	88	91	94	94	92	91	92	91	82	90	3.0
Disease resistance																			
Mildew (1–9)	8	8	9	8	8	8	[8]	[9]	[8]	8	8	8	8	8	8	[8]	7	9	0.8
Brown rust (1–9)	4	4	5	5	4	5	5	5	4	4	5	5	5	4	4	5	5	5	1.1
Rhynchosporium (1–9)	7	6	7	6	6	6	5	4	5	[7]	[6]	[6]	[5]	[5]	[6]	6	9	7	1.5
Agronomic features																			
Resistance to lodging without PGR (1–9)	7	7	6	7	7	6	[7]	[7]	[7]	[8]	[8]	[7]	[7]	[6]	[8]	[9]	8	7	1.1
Straw length without PGR (cm)	77	72	72	73	75	80	73	68	72	71	70	70	73	72	72	68	72	72	1.8
Ripening (days +/- RGT Planet)	0	0	+1	+3	0	+1	+2	+1	+2	+2	+1	+2	+2	+1	+2	+1	-2	+1	0.9
Resistance to brackling (1–9)	8	8	8	8	8	6	8	8	7	8	9	9	8	8	8	9	8	8	0.7
Main market options																			
MBC malting approval for brewing use	F	-	F	F	F	Nt	P	Nt	P	T	T	T	-	T	T	-	-	-	-
MBC malting approval for malt distilling use	-	F	F	F	Nt	F	-	P	P	-	-	T	T	-	T	-	-	-	-
Grain quality																			
Specific weight (kg/hl)	69.3	67.0	67.2	67.7	68.7	68.9	67.2	67.5	66.5	65.7	67.5	67.7	65.7	68.4	66.8	66.2	68.8	67.6	0.6
Screenings (% through 2.25 mm)	0.9	1.4	1.3	1.4	1.2	1.0	1.5	1.7	1.4	1.4	0.9	1.0	2.1	1.2	1.6	1.5	1.0	1.4	0.3
Screenings (% through 2.5 mm)	2.3	3.6	3.2	3.5	3.3	2.4	3.5	4.5	3.2	4.3	2.0	2.5	6.5	3.6	4.2	4.3	2.7	3.6	1.0
Nitrogen content (%)	1.52	1.49	1.49	1.50	1.52	-	1.46	1.48	1.44	1.48	1.50	1.53	1.46	1.47	1.47	[1.48]	-	[1.52]	0.05
Malting quality																			
Hot water extract (l deg/kg)	313.3	313.3	313.4	313.4	312.7	-	314.2	314.1	315.5	313.8	313.7	313.5	312.7	313.9	315.2	311.6	-	311.2	2.1
Predicted spirit yield (laa/t)	-	433.4	433.5	435.0	[434.0]	-	[431.5]	435.8	436.8	434.9	-	436.0	435.6	436.7	435.3	[431.5]	-	-	5.7

Varieties no longer listed: Cadiz, Florence, KWS Curtis, Malvern, Prospect and Sun King.

Null-Lox and grain-distilling (Gr.Dis) spring barley varieties are described. Data is provided for information only and does not constitute a recommendation.

Null-Lox varieties lack a gene for lipogenase production.

Growers are strongly advised to check with their buyer before committing to a malting variety without full MBC approval.

Seed supplied for RL trials for SY Tennyson in 2023 was heavily infected with net blotch. This may have negatively impacted yields.

Comparisons of variety performance across regions are not valid.

On the 1–9 scales, high figures indicate that a variety shows the character to a high degree (e.g. high resistance).

UK = Recommended for the UK
C = Yield control
MBC = Malting Barley Committee
[ ] = Limited data
PGR = Plant growth regulator

F = Full MBC approval in this segment
P = Provisional MBC approval in this segment
T = Under test for MBC approval in this segment
Nt = Not approved by MBC in this segment
P1 = First year of listing
P2 = Second year of listing

LSD = Least significant difference
Average LSD (5%): Varieties that are more than one LSD apart are significantly different at the 95% confidence level

Winter Beans PGRO Descriptive List 2024

The control for yield is the mean of 4 & 5 year varieties (4.40t/ha). Yield differences of less than 10.0% are not statistically different.

			Agronomic characters				Resistance to			Seed characters			
	UK Agent see appendix	Yield as % of control	Flower colour	Earliness of maturity (1-9)	Straw length (cm)	Standing ability at harvest (1-9)	Downy mildew (1-9)	Rust* (1-9)	Chocolate spot (1-9)	Thousand seed weight (g) (@15%mc)	Protein content (% dry)	No. Years in matrix	Year first listed
Pale Hilum													
Vespa	Sen	109	C	5	113	8	5	5	7	675	25.4	5	18
Vincent	Sen	107	C	5	114	8	6	4	6	779	26.8	5	21
Bumble	Sen	105	C	5	118	8	5	5	5	671	25.0	5	16
LG Arctic	LUK	104	C	5	113	8	6	4	5	652	26.0	3	**24**
Norton	Sen	101	C	6	109	8	6	5	5	666	25.6	5	21
Bonneville	Sen	100	C	6	113	8	5	4	5	703	25.8	4	23
Ninja	Sen	98	C	8	105	8	4	5	5	623	27.3	3	**24**
Honey	Sen	94	C	7	104	8	5	4	5	674	25.8	5	12
Tundra	LUK	93	C	6	104	8	5	5	5	605	25.6	5	14

(1-9) A high rating indicates that the variety shows the character to a high degree. The scales of characters of winter beans do not necessarily correspond with those for spring beans.

Combining Peas PGRO Descriptive List 2024

The control for yield is the mean of 4 and 5 year varieties (3.81 t/ha). Yield differences of less than 11.4% are not statistically different.

			Agronomic characters			Resistance to			Seed characters			
	UK Agent see appendix	Yield as % of control	Earliness of maturity (1-9)	Straw length (cm)	Standing ability at harvest (1-9)	Pea wilt (Race1)	Downy mildew (1-9)	Powdery mildew *	Thousand seed weight (g) (@15%mc)	Protein content (% dry)	No. Years in matrix	Year first listed
Yellow												
Concerto	LSPB	115	6	77	7	R	7	[S]	351	21.4	3	**24**
Batist	Sen	113	6	85	7	R	6	[S]	304	21.6	3	**24**
Kameleon	Sen	112	6	74	7	R	5	[S]	304	21.8	5	20
Orchestra	LSPB	110	6	77	7	R	4	[S]	316	22.2	5	20
KWS Flam	KWS	110	6	87	7	R	5	[S]	254	21.5	3	**24**
Manager	KWS	107	6	81	7	R	6	[MR]	283	22.4	5	18
Glam	Sen	105	3	84	7	R	5	[S]	256	22.4	4	23
Rivoli	Sen	100	5	78	7	[S]	8	[S]	283	22.1	5	22
LG Ajax	LUK	100	6	73	7	R	7	[HR]	265	22.5	4	23
Pink												
Flamingo	CSG	78	4	84	6	R	7	-	261	23.4	3	**24**
Green												
Carrington	LSPB	111	5	84	7	R	8	[S]	253	21.4	5	22
KWS Gotham	KWS	107	3	84	6	-	5	[S]	292	22.5	4	23
Mikka	IARA	106	5	86	7	R	7	[S]	300	22.5	5	21
Greenway	IARA	106	5	85	7	R	7	[S]	303	22.1	5	21

Butterfly	**LSPB**	**106**	**7**	**80**	**7**	**R**	**6**	**[S]**	**291**	**21.3**	**4**	**23**
Stroma	**LSPB**	**105**	**6**	**80**	**7**	**R**	**5**	**[S]**	**324**	**21.4**	**5**	**21**
Bluetime	**LSPB**	**104**	**3**	**87**	**7**	**R**	**8**	**[S]**	**286**	**21.5**	**5**	**18**
Karioka	**Sen**	**103**	**6**	**84**	**7**	**R**	**7**	**[S]**	**259**	**22.2**	**5**	**18**
Kiravi	**Sen**	**103**	**4**	**81**	**7**	**R**	**6**	**[S]**	**278**	**22.0**	**4**	**23**
Kactus	**Sen**	**102**	**5**	**76**	**7**	**R**	**7**	**[S]**	**289**	**21.9**	**5**	**20**
Shazam	**Sen**	**101**	**4**	**87**	**7**	**R**	**6**	**[S]**	**261**	**22.2**	**3**	**24**
LG Aviator	**LUK**	**98**	**4**	**75**	**7**	**R**	**7**	**[HR]**	**284**	**22.0**	**4**	**20**
Reacher	**IARA**	**97**	**6**	**74**	**5**	**R**	**7**	**[HR]**	**270**	**21.1**	**3**	**24**
Daytona	**Agrii**	**95**	**7**	**76**	**7**	**R**	**6**	**[S]**	**271**	**21.8**	**4**	**10**
Mankato	**KWS**	**93**	**4**	**81**	**7**	**R**	**6**	**[S]**	**255**	**21.9**	**4**	**19**
Prophet	**LUK**	**92**	**4**	**74**	**7**	**R**	**7**	**[S]**	**301**	**21.4**	**3**	**07**
Maple												
Mantara	**LUK**	**96**	**6**	**63**	**6**	**R**	**9**	**[S]**	**242**	**23.5**	**3**	**10**
Rose	**Dalt**	**90**	**8**	**77**	**7**	**S**	**9**	**[S]**	**258**	**23.9**	**3**	**03**
Marrowfat												
Vision	**EL**	**100**	**5**	**75**	**7**	**R**	**7**	**-**	**357**	**22.3**	**3**	**24**
Takayama	**LSPB**	**96**	**5**	**85**	**6**	**R**	**6**	**[S]**	**350**	**22.5**	**4**	**23**
Akooma	**LSPB**	**95**	**5**	**80**	**6**	**R**	**5**	**[S]**	**407**	**22.7**	**5**	**21**
Octavia	**IARA**	**86**	**3**	**76**	**8**	**R**	**3**	**[S]**	**400**	**23.2**	**5**	**20**
Sakura	**Dalt**	**82**	**5**	**77**	**7**	**R**	**4**	**[S]**	**382**	**22.9**	**5**	**08**

(1-9) A high rating indicates that the variety shows the character to a high degree.
All varieties are semi-leafless. Downy mildew: Varietal resistance may vary in different regions as race structure of the disease changes. Pea wilt (Fusarium oxysporum f. sp. pisi) (race 1) R = Resistant; S = Susceptible. *Powdery mildew Trials & Breeders information - HR = High resitsance, MR = Moderate resistance, S = Susceptible. © PGRO 2023 27.11.2023

Agent Code	UK Agent
Agrii	Agrii
CSG	Cope Seeds & Grain
Dalt	Dalton Seeds
EL	Elsoms Seeds
IARA	IAR Agri
KWS	KWS UK Ltd

Agent Code	UK Agent
LSPB	LS Plant Breeding
LUK	Limagrain UK Ltd
SU	Saaten Union (UK) Ltd
Sen	Senova Ltd
WAC	WA Church (Bures) Ltd

Spring Beans PGRO Descriptive List 2024

The control for yield is the mean of 4 and 5 year varieties (4.27 t/ha). Yield differences of less than 7.5% are not significantly different.

			Agronomic characters				Resistance to		Seed characters			
	UK Agent see appendix	Yield as % of control	Flower colour	Earliness of maturity (1-9)	Straw length (cm)	Standing ability at harvest (1-9)	Downy mildew (1-9)	Rust* (1-9)	Thousand seed weight (g) (@15%mc)	Protein content (% dry)	No. Years in matrix	Year first listed
Pale Hilum												
Genius	LSPB	108	C	6	105	8	5	4	559	26.8	4	23
Lynx	LSPB	107	C	6	104	8	6	4	521	27.6	5	16
Synergy[LVC]	SU	107	C	7	107	8	3	[5]	555	28.2	3	**24**
Navara	Sen	106	C	5	109	8	5	[6]	552	26.2	3	**24**
LG Stego	LUK	105	C	6	106	8	4	5	577	28.3	4	23
Futura[LVC]	LSPB	104	C	7	106	8	4	4	549	27.1	4	23
Victus[LVC]	LSPB	102	C	7	100	7	5	4	551	27.8	5	19
LG Hawk	LUK	101	C	7	105	8	3	[5]	575	26.8	3	**24**
LG Raptor	LUK	99	C	7	105	8	4	5	539	27.5	5	20
Vertigo	LSPB	99	C	7	105	7	4	4	581	27.6	4	13
LG Viper	LUK	96	C	5	94	9	7	7	585	28.6	5	21
Fuego	LUK	93	C	7	101	8	5	4	573	28.0	3	05
Yukon	LSPB	89	C	8	98	8	8	5	622	27.0	5	20
Black Hilum, Tic												
Maris Bead	WAC	85	C	5	111	7	7	[5]	409	29.6	3	64

(1-9) A high rating indicates that the variety shows the character to a high degree. The scales of characters of spring beans do not necessarily correspond with those for winter beans. The export market usually requires pale hilum types. LVC = Low Vicine & Low Convicine (<0.15%DM).
*Rust data influenced mostly by 4 trials in 2020. The lsd is approx 1 rating point. [] = Limited Data.

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