

Agrii-Seed

Agri intelligence



Spring Crops 2024 National Yearbook



www.agrii.co.uk

Agrii™

Dear Grower

Welcome to the 2024 edition of the Agrii Spring Crops Yearbook, your go-to resource for information on topics related to spring seed.

If you have any questions, please don't hesitate to get in touch.



John Miles
Agrii Seed
Technical Manager

This year, we are delighted to report a significant increase in the number of customers benefiting from our reserved seed offer. At Agrii, we take great care in selecting varieties that are in high demand, ensuring their safe storage, and early preparation during the summer months to ensure your seeds are ready to go. It is certainly one less hassle for the busy autumn period.

It has become the key to success for growers further North where the window to turn seed around is smaller. While further South where OSR continues to be drilled earlier and earlier, getting seed on farm from reserved sources helps this important timing. Rye, known for its suitability for early drilling, offers the potential for higher yields when adhering to a more traditional drilling date.

For those of you who, like me, enjoy podcasts during your time in the cab or car, our **Tramlines podcast** continues to gain momentum. It's not only an informative listening experience, but it also offers NRoSO and BASIS points with certain episodes; tune in to the podcast on page 35.

David Leaper, our **Seed Technical Agronomist**, provides comprehensive summaries of all Agrii's spring barley trials, offering essential insights into key variety selections for both spring pulses and spring cereals. These insights serve as a helpful reminder when making your varietal choices.

Agrii continues to screen **nutritional and biostimulant seed treatments** to make sure growers have the best products available to them. Our extensive trials work evidences the yield and margin returns which you can find on page 36.

If you're in need of guidance when it comes to your spring grass needs, our **Master Leys mix selector** offers a clear overview of the choices available. Don't hesitate to reach out to our team if you require further assistance.

Finally, our **Farm Saved Seed** service details can be found on page 38-40. You will find contact details for your local regional person and also a Q&A video where we answer all your commonly asked questions.

Have a great season.

An introduction to Agrii-Seed



A science-based approach to variety selection

- + Varieties are selected using Agrii's extensive trials network
- + Variety Sustainability Ratings give a balanced view of performance



Master Seeds quality

- + Tested more rigorously than Higher Voluntary Standard seed



Supporting our future seed business

- + Continued investment in statics and mobile seed plants and our Farm Saved Seed operations



Sustainable production of seed

- + Seed grown as close to seed plants as is practically possible



Investing in our people

- + Training of staff to ensure advice and service exceed industry standards



Regional expertise

- + Our Seed Specialists are embedded within our local agronomy teams



We work with the best suppliers in the industry

- + Our seed treatments are rigorously tested through our own trials network



Seeking new markets

- + We are continually looking to introduce innovation crops to the UK market



Buy-back opportunities

- + We work with partners to identify suitable buy-back contracts

NEW!

View the yearbook on your mobile or laptop here



Contents

Building Farm Resilience	4
RHIZA	6
Master Seeds Reserved Seed	7
Spring Barley	8
Spring Oats – Covered	17
Spring Oats – Naked	18
Spring Wheat	20
Spring Beans	22
Combining Peas	24
Linseed	26
Spring Oilseed Rape	28
Lupins	30
Grass, Maize and Cover Crops	31
Tramlines Podcast	35
Seed Treatments	36
Farm Saved Seed	38
Market Opportunities	41
iFarms – 2023 Results	42
Your local contacts	Back page

Working together for a sustainable future

GREEN HORIZONS What has been achieved since 2020?

2020

Since 2020 we have increased the sales of high-sustainability varieties by 41% – SDG 2.

2021

Sponsorship of the ADAS Yen Zero network to reduce GHG emissions in crop production – SDG 13.



Throws Farm became a LEAF innovation centre – SDG 9.



2022

Launch of Agrii's Soil Resilience Strategy to help growers improve soil health – SDG 15.



Set internal environmental standards for Agrii events – SDG 12.

Moved to 100% renewable energy across all sites – SDG 7 & 13.

Developed the Vegetable Seed Enhancement service for treating vegetable seed – SDG 12 & 2.



Move towards 100% recyclable seed bags containing 30% recycled materials – SDG 12.

2023

Delivered sustainable farming courses to 150 advisors – SDG 4 & 8.



SDG = Sustainable Development Goal set by the United Nations to be achieved by 2030.

Are you thinking about **recycling your waste?**

Our surveys suggest that **67% of customers recycle everything possible on their farm through local recycling specialists.**

As a member of The Green Tractor Scheme, we can offer a **5% discount to customers to recycle their waste with select recycling specialists.** Simply use the code **AGRII5** and quote your Agrii account number when speaking to your local recycling specialist.

The Green Tractor Scheme is a group of environmentally focused businesses aiming to have all farm plastic recycled by 2030.

With an ambition to minimise waste in agriculture, Agrii is working to improve the recyclable content of product packaging.

An example includes our seed bags, which are 100% recyclable. By joining the scheme, we are working with recycling businesses in the UK to ensure that all waste we produce in the supply chain is recycled where possible.



Agrii seed bags are 100% recyclable

Agrii Advisory List

We run a nationwide network of field trials to help our customers and agronomists select the best variety for the right situation. The trials are carried out at our Technology Centres and iFarm sites extending from Angus to Cornwall and South Wales to Essex.

The trials results are then used to create the Agrii Advisory List. This complements the AHDB Recommended List with extra analysis and statistically-robust data. The scores provided in this Yearbook are from the Agrii Advisory List, unless otherwise stated.

Your Agrii agronomist has access to the latest Agrii Advisory List data – please speak to them for more information.

OUR VARIETY TRIALS:

- + Evaluate the performance of potential, new and existing varieties on a regional basis.

THE AGRII ADVISORY LIST:

- + Provides detailed performance data from our trials and external data.

AGRII ADVISORY LISTS ARE AVAILABLE FOR:

1. Winter wheat
2. Winter and spring barley
3. Winter oilseed rape

RHIZA

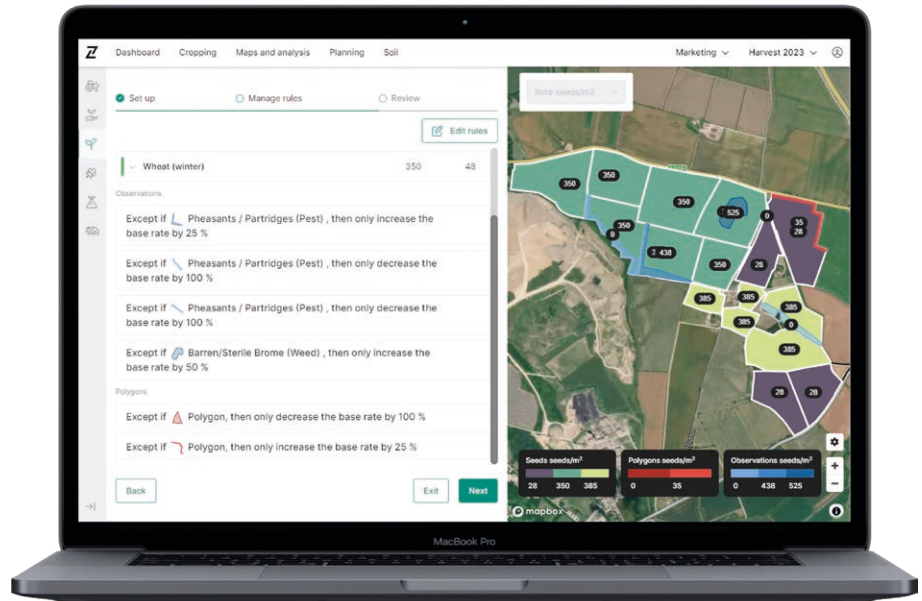
RHIZA's Whole Field Seed Planning tool is now available in Contour, enabling all customers to experience the benefits of digital seed planning and calculate the precise amount of seed to order.

Users can now create a single multi-crop plan for the whole farm in an easy process that offers accuracy, control and simplicity.

- + Available to all RHIZA customers from the Contour seed homepage.
- + Multiple crops can be included in a single whole farm plan.
- + Plan unit can be set to use kg/ha, seeds/m², or seeds/ha.
- + Base rates for the plan can be set by crop, variety, or field.
- + Export seed requirement and jobsheet reports.
- + Upgrade to Whole Field Plus to get GPS files for basic VR planning.

For more information on the Seed Planner tool or any other functionality in Contour, please contact a member of the RHIZA team:

info@rhizadigital.co.uk | 03300 949150
www.rhizadigital.co.uk



MasterSeeds™

PRIORITY SEED DELIVERY



ON TIME



ON SPECIFICATION



PEACE OF MIND

WINTER WHEAT

WINTER OILSEED RAPE

WINTER BARLEY

WINTER RYE

Priority delivery for early seed supply

Master Seeds **RESERVED** seed is held back from the previous harvest for growers who require early seed supply for the following year.

It is cleaned, then germination tested and treated in June/July and delivered immediately. **It has all of the usual Master Seeds benefits**, but with the peace of mind of being able to reserve your priority seed, ready and tailored as you need it, to meet your early drilling requirements.

Securing your seed supply with **RESERVED** seed means that it will arrive on-farm, in advance, at a convenient time for you – avoiding logistical problems at the time of drilling.

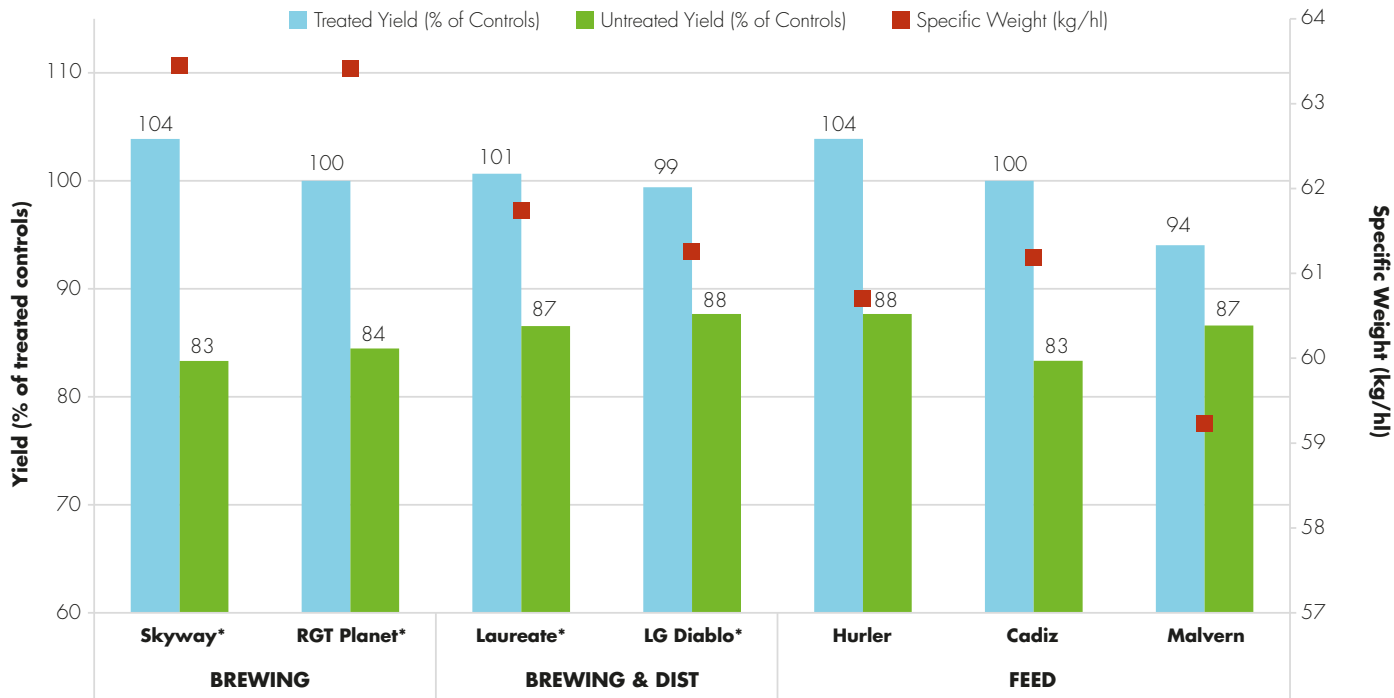
THE MASTER SEEDS BENEFITS

- + The most extensive trials network in the UK used to create the Agrii Advisory List – a balanced view of what different varieties can offer.
- + Master Seeds certified seed is processed using our own or Agrii approved production facilities.
- + It is fully traceable and undergoes rigorous quality control.
- + Seed treatment solutions that are meticulously tested through our own trials network to provide the best proven products available in the industry.

FIND OUT MORE...

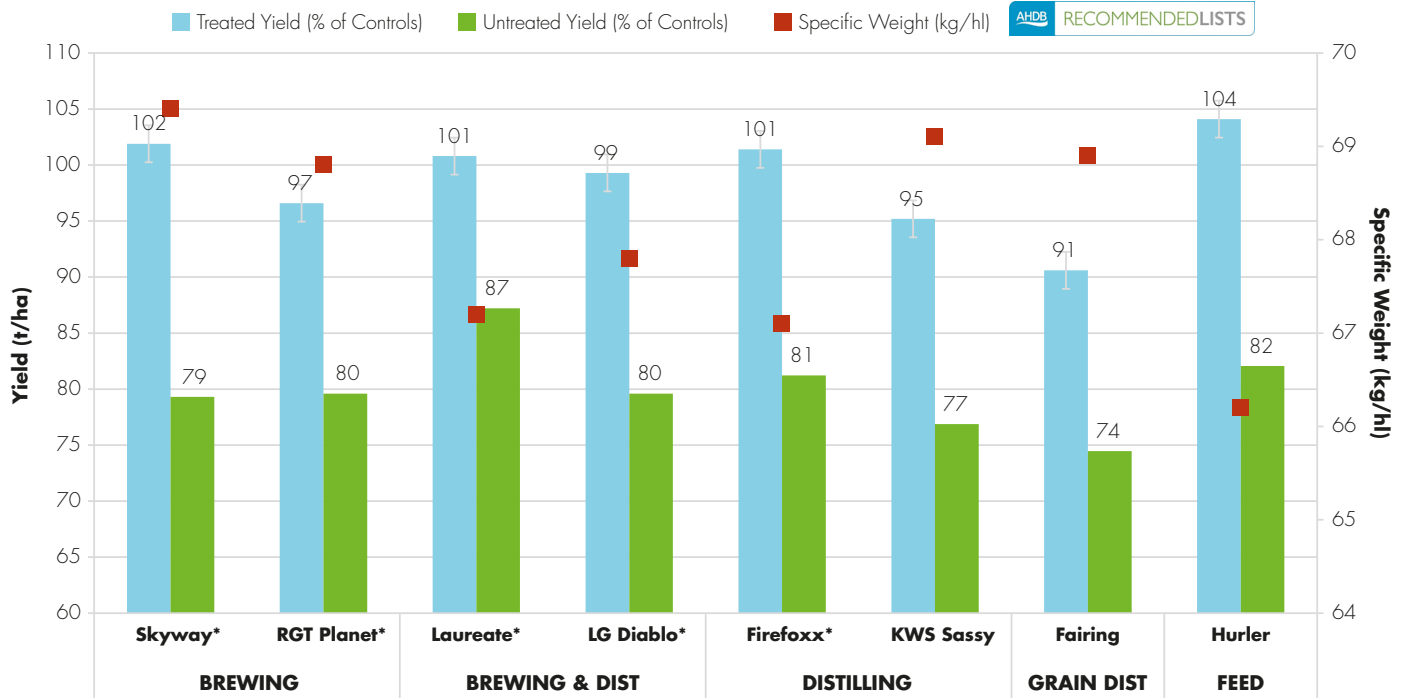
Please get in touch with your usual Agrii Agronomist or Seed Specialist for more information, or contact the Agrii Seed Desk on **01277 898202** or email info@agrii.co.uk.

AGRII SPRING BARLEY VARIETY TRIALS ENGLAND – 3 YEAR SUMMARY



Source: Mean of ten trials (Wilts x 3, Cambs x 3, Lincs x 3, Cornwall x 1). Mean yield of controls* = 6.7 t/ha.

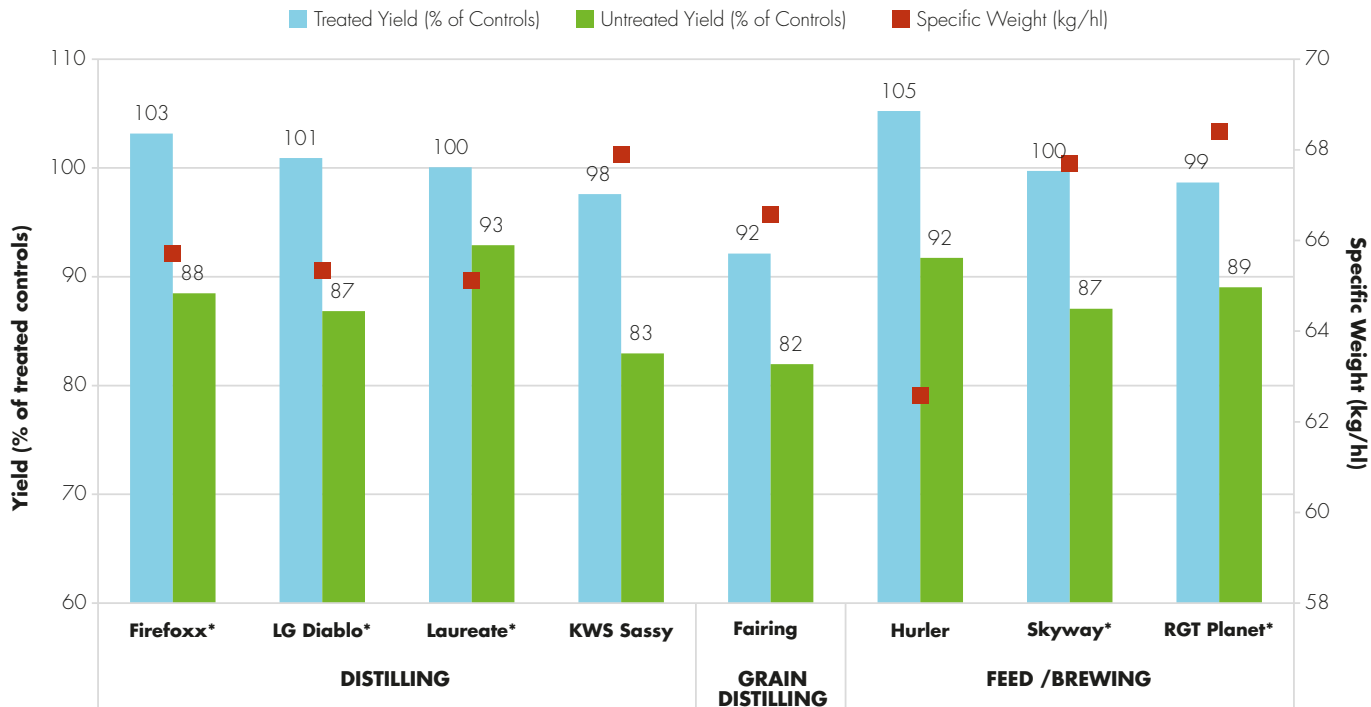
AHDB SPRING BARLEY RECOMMENDED LIST – 5 YEAR SUMMARY



Source: AHDB UK Harvest Results, 2023 (6th October). Mean yield of controls* = 7.95 t/ha.

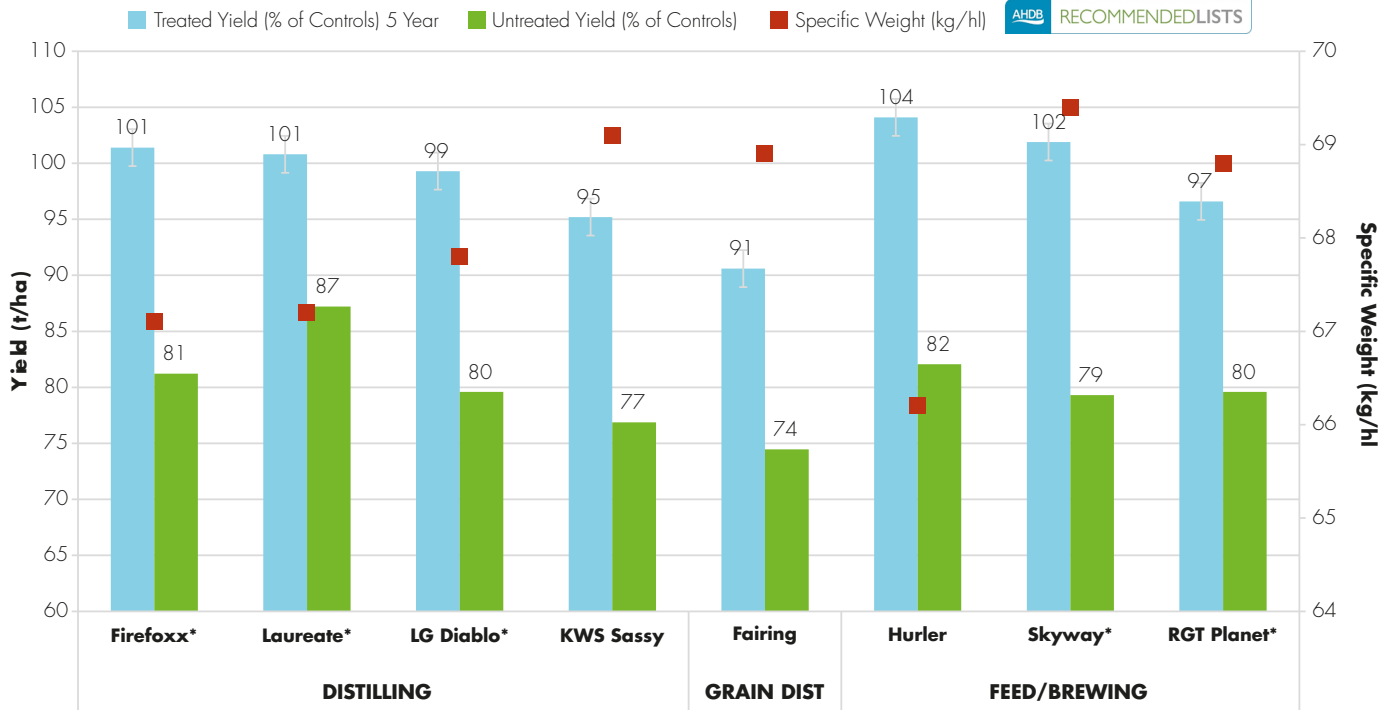
Partial extraction but the full data set are available from www.ahdb.org.uk

SPRING BARLEY VARIETY TRIALS SCOTLAND – 2 YEAR (2022-23) SUMMARY



Source: Mean of three trials (Moray x 2 and Angus x 1). Mean yield of controls* = 8.2 t/ha.

AHDB SPRING BARLEY RECOMMENDED LIST SCOTLAND – 5 YEAR SUMMARY



Source: AHDB UK Harvest Results, 2023 (6th October). Mean yield of controls* = 7.95 t/ha.

Partial extraction but the full data set are available from www.ahdb.org.uk

Laureate

BREWING, DISTILLING, EXPORT & FEED



Laureate continues to dominate the spring barley market with over 60% market share of the UK malting types in 2023.

Fully approved by the MBC for brewing and malt distilling since 2017, it is favoured in both the English and northern end markets as a non-GN variety, with strong support from end users for both brewing and distilling.

It has consistent high treated yields across the UK and is suitable for all soil types. It has produced high yields in Agrii trials (101% treated, 87% untreated) over the past three years but tends to give a relatively low specific weight compared with other varieties like Skyway, RGT Planet and KWS Sassy.

A short-strawed variety (70 cm) and, while on the lower end of lodging resistance (6 treated), its brackling resistance is good (7). Its maturity is +1 which becomes more attractive as you go further north, compared with varieties like LG Diablo (+2).

Laureate is considered to have relatively low straw yields compared with some other varieties. It has a strong disease profile with no obvious weaknesses with scores for brown rust (6), *Rhynchosporium* (6) and excellent resistance to mildew (9). It is moderately resistant to net blotch in Agrii trials.

BREEDER:	SYNGENTA UK LTD
PARENTAGE:	SANETTE X CONCERTO

Skyway

BREWING & FEED



One of the highest yielding spring barley varieties on the UK Recommended List (105% treated, 94% untreated) with a significant performance advantage over Laureate in the East (+3%) and West (+2%).

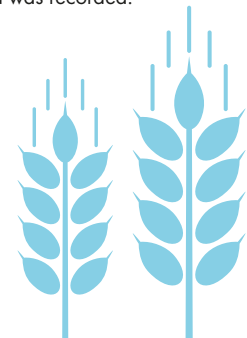
It is now fully approved for brewing by the MBC and buy-back contracts are available for harvest 2024. It has performed at a similarly high level in Agrii trials over the past three years (104% treated, 83% untreated). It has one of the highest specific weights (69.4 kg/hl) of any spring barley, even higher than that of RGT Planet, combined with low screening losses.

Suitable for all regions and soil types. Excellent agronomic characteristics with medium height (75 cm), reasonably stiff straw, average lodging (6) and brackling resistance (6) and medium maturity.

Good disease package with a very high resistance to mildew (9) and *Rhynchosporium* (7) but it is susceptible to brown rust (4) and moderately susceptible to net blotch. As a result It has given high untreated yields in both Agrii and official results.

Direct drill farm trials across 6 sites in 2022 in the South showed good performance compared with RGT Planet. Grain quality improvements were seen and an average yield advantage of 0.6 t/ha was recorded.

BREEDER:	NORDIC SEED
UK AGENT:	AGRII
PARENTAGE:	RGT PLANET X NOS 2105-11



LG Diablo

DISTILLING & FEED



Fully approved by the MBC for malt distilling use in 2019 and accounts for about 12% of the UK spring barley market.

High treated yields in Agrii northern trials (101% treated, 87% untreated) put it at the same level as Laureate. It has a medium specific weight (67.8 kg/hl) and relatively low screenings and is often grown as a high yielding feed barley.

Medium in height (71 cm), stiffer straw (7) to Laureate with similar brackling resistance (7) and it produces reasonably high straw yields but it is the latest variety to mature (+2). A good disease resistance package is reflected in its high untreated yield with mildew (9), brown rust (5), *Rhynchosporium* (5), and moderate resistance to net blotch.

BREEDER: LIMAGRAIN UK

PARENTAGE: OVERTURE X SANETTE

KWS Sassy

DISTILLING



KWS Sassy has had full MBC approval for distilling since 2017 and has taken about 16% of the Scottish market.

Agrii northern trials over the last two years have put yields (97% treated, 87% untreated) a bit below those of Laureate which is consistent with the results from official trials. KWS Sassy produces a grain of a high specific weight (69.1 kg/hl) and has the lowest screening losses of any malt distilling variety. It is liked by end users for its excellent hot water extract and low grain nitrogen.

Relatively tall straw (78 cm) with average standing ability (4) and average brackling resistance (5). Disease resistance is fairly good with mildew (9), brown rust (5) and one of the best ratings for *Rhynchosporium* resistance (6). Early indications suggest that it is moderately susceptible to net blotch. Maturity is similar to Laureate (+1).

BREEDER: KWS

PARENTAGE: CONCERTO X PUBLICAN

RGT Planet

FEED & BREWING

Once the leading brewing variety in the English market and widely grown for feed too, it accounts for 15% of the UK spring barley market. It has already lost significant market share to Laureate and Skyway and it is expected to decline further in 2024.

It has given consistent high yields across all regions and soil types and is relatively straightforward to manage. It has displayed consistent yield performance over the years (99% treated, 89% untreated in Agrii trials) with a decent specific weight (68.8 kg/hl).

Medium height (73 cm), relatively stiff straw (7), high brackling resistance (7) and medium maturity. It produces intermediate straw yields.

High untreated yields reflect the good all-round disease resistance, with excellent mildew resistance (8), but average on brown rust (5) and *Rhynchosporium* (6). It is moderately resistant to net blotch in Agrii trials.

BREEDER:	RAGT SEEDS, UK
PARENTAGE:	TAMTAM X CONCERTO



Hurler

FEED

Hurler was a new introduction to the UK Recommended List in 2023. It has the highest yields on the list (107% treated, 94% untreated).

Grain quality is on the lower end (66.2 kg/hl) and 1 kg/hl lower than that of Laureate but its screenings are in line with other feed types (1.5% through 2.25 mm and 4.4% through 2.5 mm screens).

It has given consistent high yields across all regions and soil types and is straightforward to manage. It has shown consistent yield performance in Agrii trials over the past two years (104% treated, 88% untreated). Relatively short (65 cm) with very stiff straw (7), outstanding brackling resistance (9) and medium maturity (+1).

Hurler shows excellent mildew resistance (9) but average on brown rust (4) and *Rhynchosporium* (5) and its resistance to net blotch is still under evaluation.

BREEDER:	SECOBRA, FRANCE
UK AGENT:	AGRII
PARENTAGE:	(RGT PLANET X KWS BECKIE) X LAUREATE



ENGLAND & WALES ONLY

Explorer

BREWING (CONTRACTS ONLY)



A specialist brewing variety grown on contract for the production of Budweiser beer.

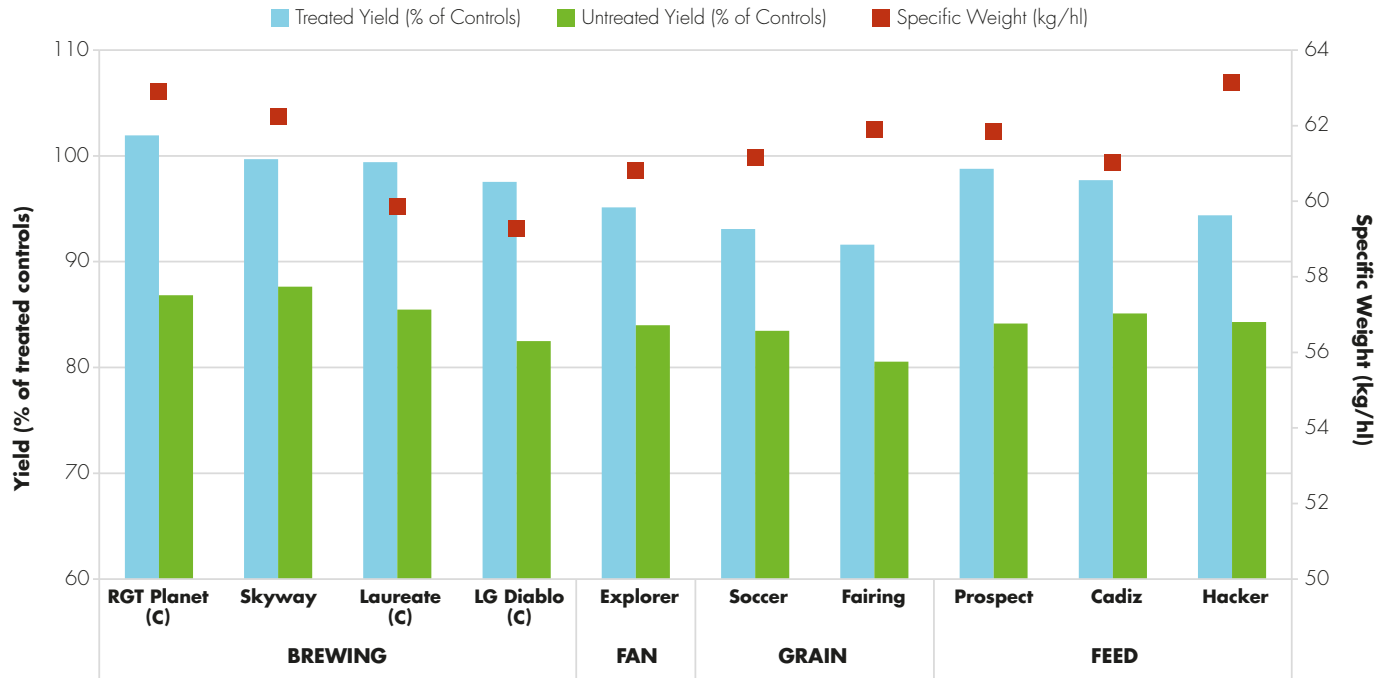
It has specific grain characteristics with the combination of high Free Amino Nitrogen (FAN) and high Diastatic Power (DP) which suits the production of this globally renowned beer. Growers need to target nitrogen levels around 1.8-1.9% and it attracts premiums to help offset its lower yield. Contracts are generally limited to the East and East Midlands.

Suitable for a range of soil types but is often grown on heavier land where grain nitrogen tends to be higher. It is a continental type with a very fast speed of development so it should not be sown before the beginning of March and it has very early maturity, which offers rotational benefits.



Slightly taller than average (76 cm), and while its lodging resistance (7 treated) is in line with RGT Planet, its brackling resistance is low (4) so it must be combined as a priority. Good lodging resistance and very early maturity make it an ideal entry for oilseed rape. Sound disease resistance with net blotch and brown rust (5) similar to that of RGT Planet but mildew needs watching (4) and *Rhynchosporium* (5) is on the lower side. Moderately resistant to net blotch in Agrii trials.



BREEDER:	SECOBRA, FRANCE
UK AGENT:	AGRII
PARENTAGE:	BEATRIX X MARNIE



AGRII SPRING BARLEY VARIETY TRIALS HIGH NITROGEN SITES, 3 YEAR SUMMARY



Source: Mean of seven trials over three years (Essex x 2, Lincs x 2, Warks and Derbys x 2). Mean yield of controls (C) = 9.0 t/ha.

SPRING BARLEY NPKS PLAN						
TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
1st Dose	 Agrii-Start Replenish	350	60	40	79	39
2nd Dose	 Agrii-Start Enhance	195	90	0	0	0
Total kgs/ha			150	40	79	39

SPRING BARLEY NKS PLAN						
TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
1st Dose	 Agrii-Start Nourish	345	60	0	81	50
2nd Dose	 Agrii-Start Enhance	195	90	0	0	0
Total kgs/ha			150	0	81	50

SPRING BARLEY NPS PLAN						
TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
1st Dose	 Agrii-Start Establish	180	60	40	0	0
2nd Dose	 Agrii-Start Enhance	180	60	0	0	54
Total kgs/ha			120	40	0	54

Nutrient rates are for guidance purposes only. For more info on nutrition, email info@agrii.co.uk.



Agrii-Start Replenish

A size matched formulation designed for broadcast systems up to 36m. Developed specifically for use across all cereals to fulfil nitrogen, phosphorus, potassium and sulphur requirements in one pass.



Agrii-Start Nourish

Agrii-Start Nourish NKS+ is a size matched formulation designed for broadcast systems up to 36m. The Enhance treated nitrogen reduces nitrogen losses. The product also reduces nitrous oxide losses and has a lower carbon footprint compared with other fertiliser combinations.



Agrii-Start Enhance

Enhance Granular Urea is Agrii's range of high quality granular N & NS fertilisers. Enhance is powered by Nutrisphere-N which stabilises the nitrogen and reduces the risks from volatilisation, leaching and nitrification.



Agrii-Start Release

A unique soil phosphorus complexing agent. Agrii-Start Release can be used where growers are looking to omit or reduce phosphorus in fertiliser applications.



Agrii-Start Establish

A starter fertiliser for cereal crops designed to fulfil seedbed requirements of nitrogen and phosphorus. Containing Agrii Protected Phosphate (A.P.P) and Enhance to increase phosphate availability, NUE and speed of emergence.



WPB Isabel



Expected to continue to be the market-leading spring oat, WPB Isabel is amongst the top yielders in official trials and shows good yields in Agrii trials.

Very good kernel content and top specific weight, with low screenings. End-users remain positive on the milling capacity of this oat. Similar height to Canyon but with stiffer straw, this variety should stand well on farm under a standard PGR programme. Average resistance against crown rust and mildew mean this is a manageable variety that needs a standard agronomic programme. With decent agronomics whilst delivering a good chance to hit quality specification, expect this line to sell out and perform well on farm.

BREEDER: WIERSUM BV

UK AGENT: KWS

Canyon



Still commanding a reasonable UK market share and most widely grown further north, Canyon sits in the middle of the pack for yield with average kernel content and screenings.

It has continued to impress on farm. It is still the “go-to” oat for those looking for consistency. However, UK stock levels remain low, and it is not accepted by all mills, so availability and market potential will need checking. Tall straw of average strength means this is manageable with PGRs. Marginally earlier to mature than other varieties and offering excellent mildew resistance but is susceptible to crown rust, so a standard fungicide programme should see this variety stay clean and perform well.

BREEDER: NORDSAAT

UK AGENT: SAATEN UNION

Merlin



A new addition to the Recommended List (RL) and to our portfolio with a lot of potential.

Currently the second highest yielding variety in official trials, and one of highest yielding in Agrii trials. Average kernel content, good specific weight and the lowest screenings on the list. Similar maturity and disease package to Canyon but with stiffer straw. Early indication from mills is positive with some commenting on wanting to see more of this. Expect this variety to start to take serious market share as it grows and develops in the system.

BREEDER: SELGEN

UK AGENT: COPE SEEDS



Spring Naked Oats

As the name implies, naked oats naturally thresh free from the husk during harvest. This natural groat is nutrient dense with high digestible energy, and gives itself into a range of different sectors demonstrating the versatility and respect this crop has gained.

Our naked oats are marketed under our Superioats brand into our various end users. They are used as a whole grain, for flaking, malting and in animal feeds. Industries include wild bird food, dog food, poultry, and horses, with their versatility reaching as far as cosmetics.

We have looked into improving agronomic performance through Agrii trials, aiming at increasing on farm gross margins. In addition, our Agrii blackgrass trials at Stow Longa have shown that spring oats, including our Superioats, are a great option for grass weed control situations.

Contract area is limited this year so please get in contact with your requirements.



GB Seeds is the Specialist Grain Marketing division of Agrii, and specialises in working with added value crops and grains.

Please see page 41 for more information on buy-backs through GB Seeds.

Lennon



The most well-established spring naked oat variety with yields slightly higher than Oliver in more northern sites.

Lennon has been tried and tested with end-users and is widely accepted. This is the benchmark spring naked oat. Lennon is shorter than most conventional spring oats, with decent standing power. However, as with all oats, if placing on heavier or more fertile ground, growers will need to be aware that PGRs should be included in the programme on all oats. Moderately resistant to crown rust and mildew, which means that a standard fungicide programme will keep this line clean.

BREEDER: IBERS

UK AGENT: SENOVA

Oliver



A spring naked oat that has produced slightly higher yields in more southern sites in Agrii trials when compared to Lennon.



Oliver has also shown to have slightly larger grain size with better screenings and a good specific weight. Fully accepted by our end-users, Oliver is a great addition to the portfolio and offers growers a different type to Lennon. Taller than Lennon, expect similar height to Canyon, with moderate straw strength, which means that growers need to keep PGRs in the tank. In a standard programme situation Oliver has stood and performed well. Susceptible to crown rust and moderately resistant to mildew, a standard fungicide program will be required.

BREEDER: SELGEN

UK AGENT: COPE SEEDS



SPRING OATS NPKS PLAN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
Seedbed	 Agrii-Start Replenish	350	60	40	79	39
Top Dress	 Agrii-Start Enhance	100	46	0	0	0
Total kgs/ha			106	40	79	39



Agrii-Start Replenish



A size matched formulation designed for broadcast systems up to 36m. Developed specifically for use across all cereals to fulfil nitrogen, phosphorus, potassium and sulphur requirements in one pass.



Agrii-Start Nourish

Agrii-Start Nourish NKS+ is a size matched formulation designed for broadcast systems up to 36m. The Enhance treated nitrogen reduces nitrogen losses. The product also reduces nitrous oxide losses and has a lower carbon footprint compared with other fertiliser combinations.

SPRING OATS NKS PLAN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
Seedbed	 Agrii-Start Nourish	345	60	0	81	50
Top Dress	 Agrii-Start Enhance	100	46	0	0	0
Total kgs/ha			106	0	81	50



Agrii-Start Enhance

Enhance Granular Urea is Agrii's range of high quality granular N & NS fertilisers. Enhance is powered by Nutrisphere-N which stabilises the nitrogen and reduces the risks from volatilisation, leaching and nitrification.



Agrii-Start Release

A unique soil phosphorus complexing agent. Agrii-Start Release can be used where growers are looking to omit or reduce phosphorus in fertiliser applications.

Nutrient rates are for guidance purposes only. For more info on nutrition, email info@agrii.co.uk.

KWS Ladum

GROUP 1, BREAD



The joint highest yielding milling spring wheat in both official trials (102%) and in an Agrii trial (110%). It also has very bold grain (78.3 kg/hl). It is similar in height to Mulika (78 cm) and shows similar maturity. Its disease resistance is reasonable with mildew (7), yellow rust (6), brown rust (7) and *Septoria tritici* (7) but, unlike Mulika and Nissaba, it is not resistant to orange wheat blossom midge.

BREEDER:	KWS UK
PARENTAGE:	KWS SYWELL X KWS TALLAND

Mulika

GROUP 1, BREAD



A Group 1 spring milling wheat with a lower-than-average yield (95%). It produces tall straw (79 cm) and a full PGR programme is advisable especially on fertile land. Good disease resistance with *Septoria tritici* (7), brown rust (9), mildew (6) and yellow rust (6). Resistant to orange wheat blossom midge.

BREEDER:	BLACKMAN AG (UK)
UK AGENT:	SENOVA
PARENTAGE:	PARAGON X (TYBALT X ROBIGUS)

Nissaba

GROUP 1, BREAD



Nissaba is best sown in the late autumn but it has out-performed Mulika by 10% in a spring-drilled trial. It has a similar height (77 cm) to Mulika but is slightly later to mature (+2). Disease resistance is similar to Mulika on brown rust (9) but is weaker against *Septoria tritici* (5), mildew (5) and yellow rust (5). Resistant to orange wheat blossom midge.

BREEDER:	BLACKMAN AG (UK)
UK AGENT:	PAUL NICKERSON LTD
PARENTAGE:	PREMIO X MULIKA X W45

Cochise

GROUP 2, BREAD



A consistently high yielding Group 2 variety with a 7% yield advantage over Mulika in official and Agrii trials. Excellent physical grain quality (78.6 kg/hl) but lower than average Hagberg (250s). Similar in height (78 cm) to Mulika and similar maturity (+1). It is very susceptible to yellow rust (4) but is resistant to orange wheat blossom midge. It remains Agrii's biggest selling spring wheat.




BREEDER:	KWS UK
PARENTAGE:	ASHBY X LAPIS



SPRING WHEAT NPKS PLAN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
1st Dose	 Agrii-Start Replenish	350	60	40	79	39
2nd Dose	 Agrii-Start Enhance	150	69	0	0	0
3rd Dose	 Agrii-Start Enhance	150	69	0	0	0
Total kgs/ha			198	40	79	39

SPRING WHEAT NKS PLAN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
1st Dose	 Agrii-Start Nourish	345	60	0	81	50
2nd Dose	 Agrii-Start Enhance	150	69	0	0	0
3rd Dose	 Agrii-Start Enhance	150	69	0	0	0
Total kgs/ha			198	0	81	50

**Agrii-Start Replenish**

A size matched formulation designed for broadcast systems up to 36m. Developed specifically for use across all cereals to fulfil nitrogen, phosphorus, potassium and sulphur requirements in one pass.

**Agrii-Start Nourish**

Agrii-Start Nourish NKS+ is a size matched formulation designed for broadcast systems up to 36m. The Enhance treated nitrogen reduces nitrogen losses. The product also reduces nitrous oxide losses and has a lower carbon footprint compared with other fertiliser combinations.

**Agrii-Start Enhance**

Enhance Granular Urea is Agrii's range of high quality granular N & NS fertilisers. Enhance is powered by Nutrisphere-N which stabilises the nitrogen and reduces the risks from volatilisation, leaching and nitrification.

**Agrii-Start Release**

A unique soil phosphorus complexing agent. Agrii-Start Release can be used where growers are looking to omit or reduce phosphorus in fertiliser applications.

Nutrient rates are for guidance purposes only. For more info on nutrition, email info@agrii.co.uk.

Spring beans

Spring beans are a good break from cereal crops with many excellent rotational crop benefits.

A great contributor of residual nitrogen, spring beans have many plus points, such as enabling growers to take advantage of their excellent soil enhancing capabilities.

Growers should aim to produce a quality marketable crop so that they can target opportunities into all available markets. Key areas to watch out for are bruchid beetle and staining – areas that can be helped with good husbandry and attention to detail.

It is always advisable with larger seeded pulses to handle and dry the product gently to avoid cracking and splitting of grains.

Export uptake varies from year to year and is driven by North African demand. This market also sources supplies from France, the Baltics, Canada and Australia. These competitor crops, like us, also have key issues to manage so patience and good marketing may be required to ensure returns are maximised.

Forward contracts for Harvest 2024 will be available as demand dictates. These usually relate to premiums over the Liffe feed wheat price, with additional premiums over that for achieving reasonable quality criteria.

Choice of variety is a key factor in this process, where demand is strong then most varieties of the right quality will find homes. When demand is less, buyers will prefer the larger seeded and more evenly sized types.

Varieties with low vicene and convicene (LVC) offer additional benefits into animal feed. These will increase in market share as they grow in popularity, particularly as yield performance matches the best conventional types.

Lynx

Lynx is a consistent variety that has performed well over recent seasons of changeable weather patterns.

A top yielding variety, Lynx also offers the best downy mildew resistance available and is one of the stiffest strawed varieties in the marketplace, a combination that is not currently matched by other varieties.

Seed size is slightly smaller than Vertigo and Victus, however other attributes make Lynx a prime candidate for growers to choose.

BREEDER: LS PLANT BREEDING

Vertigo

A well established variety with good yields combined with medium maturity.

Vertigo has one of the largest seed sizes which contributes towards producing the attractive samples needed for premium export markets.

Moderate to good straw stiffness and average resistance to downy mildew.

BREEDER: LS PLANT BREEDING



Futura New

Futura is a high yielding LVC (Low Vicine & Low Convicine) feed bean, making it a bean well suited to include in livestock feed rations.

Futura is relatively early to mature, has good standing ability and good disease resistance, on par with Vertigo, making it a sound choice agronomically. A bold seed size also increases Futura's marketability.

BREEDER: LS PLANT BREEDING

Genius New

Genius is a new addition to the PGRO descriptive list and is currently the highest yielding spring bean.

It sits 3% above current market leader Lynx. It has good all round agronomic traits and would suit any current Lynx growers, looking to try something new.

BREEDER: LS PLANT BREEDING

SPRING BEANS OPTIONS

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA					
			N	P	K	SO ₃	CaO	MgO
Seedbed	 Agrii-Start PKS+ Pulses Poly	210	0	35.7	39.9	39.9	14.7	5.25
Seedbed	 Agrii-Start PKS+ Pulses Mg	210	0	35.7	39.9	31.5	0	31.5



Agrii-Start PKS+ Pulses

Developed by Agrii specifically for use in pulses. Contains Agrii Protected Phosphate (A.P.P) – proven to increase phosphate availability and maximise root growth with chelating activity to free up nutrients from the soil.



Agrii-Start Release

A unique soil phosphorus complexing agent. Agrii-Start Release can be used where growers are looking to omit or reduce phosphorus in fertiliser applications.

Nutrient rates are for guidance purposes only. For more info on nutrition, email info@agrii.co.uk.

Combining peas and contracting opportunities

Peas remain a good option as a break crop for many reasons relating to rotation, soil enhancing, residual nitrogen and weed control benefits – as well as offering very good gross margin potential.

Given the historical nature of fluctuations in crop areas of peas, processors and end users are increasingly becoming more tuned into forward contracts. These contracts offer supply stability to the market for both growers and the end market. It is vital for break crops to avoid the spikes and dips in values as end user confidence in supply can sometimes be dented, potentially harming longer term crop prospects.

With the lack of a true base price on a world level for peas, then commitments from these processors are generally speculative in nature, which enforces the trade commitment towards having confidence in the whole supply chain.

Growing human consumption pea varieties can produce the highest returns but some varieties may not be as easy to manage and the end value is very much subject to the final quality.

Special attention to care of the crop through its whole life is very important in assuring the best quality is produced and retained through to delivery to the processor. Colour retention is key to this, aligned with the required moisture content but this must be achieved without damage or cracking to the peas, which reduces the options in uses for the processor and ultimately may reduce the value.

Contracts will be available for Harvest 2024 on all pea types. We recommend early registration of interest by growers.

Daytona

GREEN (BLUE) PEA

Daytona has been the leading green pea for quality and colour retention for many years.

It has consistently delivered samples of good colour retention across a range of conditions better than other blue pea varieties. This gives growers the best chance of maximising premiums offered into the human and micronising pet food markets. Daytona is one of the earlier maturing green peas and has good scores for downy mildew resistance and standing ability.

UK AGENT: AGRII

Greenway

GREEN (BLUE) PEA

Greenway is a new high yielding variety with excellent resistance to downy mildew.

It is tall but has relatively strong stem stiffness. Greenway has good colour retention and is suitable for a range of end markets including human consumption and micronising.

UK AGENT: IAR AGRI/ELSOMS

Carrington New

GREEN (BLUE) PEA

Carrington is a new addition to Agrii's pea portfolio.

It is currently the highest yielding green pea on the PGRO's descriptive list. Carrington offers good all round agronomics and has good resistance to downy mildew. Carrington has good colour retention which will make it a suitable choice for premium end markets. Seed is likely to be in demand for spring 2024.

UK AGENT: LS PLANT BREEDING

Kameleon

WHITE (YELLOW PEA)

White peas offer high yields compared to other pea types.

Kameleon is the highest yielding white pea on the Descriptive List and has performed consistently for several years.

It has a large seed size, making it ideal for the splitting market.

With no particular weaknesses, Kameleon is a sound choice for growers choosing this type of pea.

UK AGENT: SENOVA LTD



Mantara

BROWN SEEDED MAPLE PEA

Mantara is a brown seeded maple pea with a wide range of end uses but primarily in the pet/pigeon feed market, due to the unique grain characteristics.

A short-stawed variety with moderate straw stiffness offering moderate to good agronomic characteristics.

Mantara should be grown on a forward contract to maximise returns. GB Seeds can offer more information if required.

UK AGENT: LIMAGRAIN UK

Sakura

MARROWFAT PEA

Sakura is one of the most widely grown pea varieties, driven by forward contracts.

Sakura performs consistently, has good colour retention and a very large seed size.

It can only be grown on a buy-back contract which ensures defined market security for growers. Yields can be within 15-20% of popular green peas (or better), but with attractive premiums for the right sample, this will more than compensate in terms of gross margin.

Standing ability and maturity are relatively good, but disease resistance is poorer than other green or white varieties.

UK AGENT: DALTON SEEDS

Linseed

Linseed fits well with those growers looking for options to manage their grassweeds and with excellent buy-back contracts available, growers can lock in margin right from the start.

Daniel

Average yields but it comes with earlier maturity than Juliet. It has shown consistent performance on-farm and remains Agrii's most popular brown linseed variety.

Buffalo

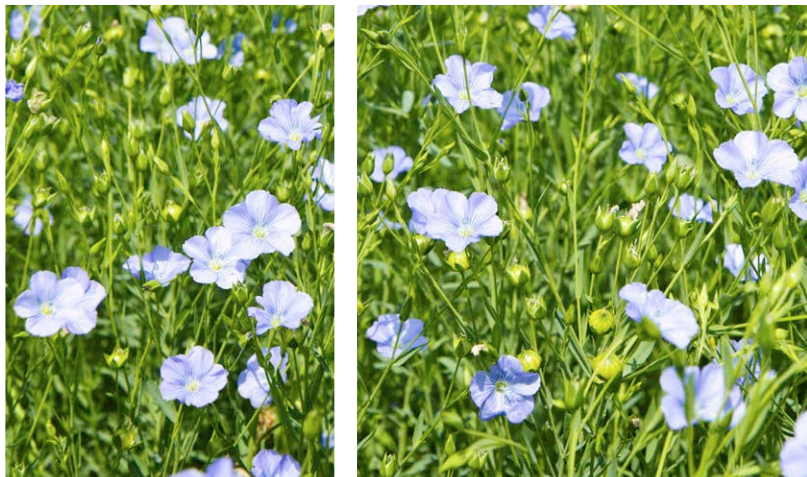
A relative newcomer to the AHDB Descriptive List with a high oil content (42%), excellent disease resistance, stiff straw and early maturity.

Juliet


Consistently very high yielding variety in trials and on-farm, and continues to be the highest yielding variety in AHDB Descriptive List trials. Excellent early vigour and high oil content. Slightly later to mature than most varieties so best suited to Lincolnshire and further south.

Ingot

Ingot is a high yielding yellow linseed with excellent standing power and good agronomic characteristics. It is a preferred variety for the food sector.



LINSEED NP PLAN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
Seedbed	 Agrii-Start Establish	180	60	40	0	0
	Total kgs/ha		60	40	0	0

**Agrii-Start Establish**

A starter fertiliser for cereal crops designed to fulfil seedbed requirements of nitrogen and phosphorus. Containing Agrii Protected Phosphate (A.P.P) and Enhance to increase phosphate availability, NUE and speed of emergence.

**Agrii-Start Release**

A unique soil phosphorus complexing agent. Agrii-Start Release can be used where growers are looking to omit or reduce phosphorus in fertiliser applications.



Nutrient rates are for guidance purposes only.
For more info on nutrition, email info@agrii.co.uk.



Spring oilseed rape

Contra CL

The only Clearfield variety on the AHDB Descriptive List. Early flowering and medium maturity. Agrii's biggest selling spring oilseed rape variety over the past two years.

Lakritz

The highest treated and untreated yields on the AHDB Descriptive List. Early to flower and relatively short.

Lumen



Consistent high yields, relatively short, early flowering and the earliest variety to mature.

Performer



The joint highest gross output variety on the AHDB Descriptive List (103%) with a very high oil content (45.6%). Good early vigour and very consistent performance over the past three years.






OSR STARTER FERTILISER NPKS PLAN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
Seedbed	 Agrii-Start Replenish	175	30	20	40	20
Top Dress 2	 Agrii-Start Enhance NS	212	70	0	0	63
Total kgs/ha			100	20	40	83

OSR STARTER FERTILISER NS PLAN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
Seedbed	 Agrii-Start OSR	139	30	40	0	0
Top Dress 1	 Agrii-Start Enhance NS	212	70	0	0	63
Total kgs/ha			100	40	0	63

OSR STARTER FERTILISER NS PLAN USING FOLIAR NITROGEN

TIMING	PRODUCT	RATE/HA	NUTRIENTS KGS/HA			
			N	P	K	SO ₃
Seedbed	 Agrii-Start OSR	139	30	40	0	0
Top Dress 1	 Agrii-Start Enhance NS	212	70	0	0	63
Green Bud	 Efficie-N28-t	20	7	0	0	0
Total kgs/ha			107	40	0	63

**Agrii-Start Replenish**

A size matched formulation designed for broadcast systems up to 36m. Developed to fulfil nitrogen, phosphorus, potassium and sulphur requirements in one pass.

**Agrii-Start Enhance**

Enhance Granular Urea is Agrii's range of high quality granular N & NS fertilisers. Enhance is powered by Nutrisphere-N which stabilises the nitrogen and reduces the risks from volatilisation, leaching and nitrification.

**Agrii-Start OSR**

This starter fertiliser is designed to supply the correct autumn nutrients for OSR with the addition of boron and Agrii Protected Phosphate (A.P.P) to improve speed of emergence.

**Agrii-Start Efficie-N28-t
28% Foliar Nitrogen**

Liquid Foliar Nitrogen Fertiliser. A unique Amide Nitrogen (NH₂) formulation designed to provide effective crop uptake whilst maximising crop safety.

**Agrii-Start Release**

A unique soil phosphorus complexing agent. Agrii-Start Release can be used where growers are looking to omit or reduce phosphorus in fertiliser applications.

Nutrient rates are for guidance purposes only. For more info on nutrition, email info@agrii.co.uk.

Lupins

Lupins are an alternative break crop offering high protein levels, ideal for incorporating into feed rations. They are a relatively low input crop which, like peas and beans, do not have a requirement for nitrogen fertiliser.

There are different types of lupin that are capable of being grown in the UK, but in Agrii trials blue lupins, the determinate types, have been identified as best suited to UK arable rotations as they mature much quicker than the white, indeterminate types.

Lupins can be grown on a range of soil types with pH 4.8 to 6.5 but it is best to avoid really heavy clay sites with poor drainage. They should be sown into a fine seedbed any time from mid-March to the end of April and should be sown with a Rhizobium inoculant to aid nodulation. Sowing beyond April can have a detrimental impact on the maturity date and the yield potential. Lupins can be harvested in July for clamping or taken through to combining in August/September.

Lupins can be a valuable protein alternative to imported soya for livestock rations. With developments in maturity, identified within Agrii screening trials, typical protein content of 28%-32% has been achieved from commercial crops with UK growers when combined. Once harvested, lupins can be utilised within any home mixed ration and for any type of livestock.

Although there is a long way to go for UK-grown lupins to replace imported soya altogether, they could be part of the long-term solution whilst reducing inputs within rotations, fixing nitrogen in soils and of course reducing the carbon footprint of your farming enterprise.

Please get in touch with your usual Agrii agronomist for more information.



Maize

Whether it's the data needed to choose a new maize variety for your system, material suitable for where you're farming within the UK, or practical advice and post-cropping options, we can help.

It's becoming more important than ever that maize crops grown in the UK are reliable, consistent, high performing and sustainable due to the ever-changing seasons and legislation that the industry faces on an annual basis.

Please request a copy of our 2024 Maize Guide for more information or download the digital version by scanning the QR code. Our Maize Guide also contains information on growing maize more sustainably.

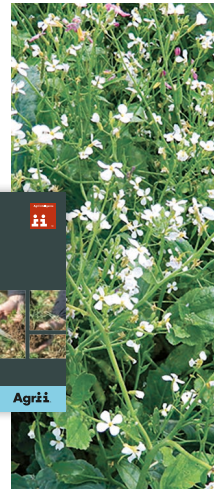


Thinking about cover crops?

Cover crops used correctly as part of your soil management strategy can deliver a range of benefits.

The key element in improving soil health and productivity in the long term, is to increase your soil organic matter content. This is best done by selecting the correct cover crops for your farming operation.

Please get in touch for details of the varieties that we have available, or for a copy of our Cover Crops Guide. Download the digital version by scanning the QR code.



Master Leys

The Master Leys range of grass mixtures offers full and comprehensive options for all types of farming systems and regions of the UK.

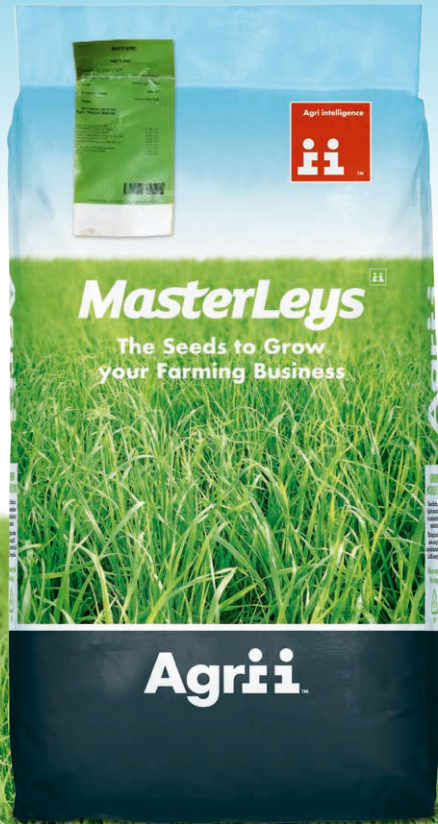
Working closely with leading grass seed breeders throughout the UK and Europe, Agrii is able to access the best varieties for the Master Leys portfolio. In addition to this, Agrii grows and produces more than 80% of the seed used to produce Master Leys.

This gives us greater control over the quality of the seed we use and ensures that what goes into a Master Leys bag is of the highest possible standard. The best varieties from the Grass and Clover Recommended List are specifically chosen for each Master Leys mix.

We're continually developing and innovating our variety choices and mixtures – ensuring that we provide the most resilient and best performing grass mixtures for your specific requirements and current climates.

The story doesn't stop with the seed in the bag.

Agrii agronomists and crop input specialists provide advice throughout the lifetime of the ley to ensure the best possible returns from your grass. This covers nutrition, weed control and forage nutrient analysis, together with support on animal health and advice on storage. This integrated approach to making your grass work harder will help drive on farm profitability from your home grown forage.



Please get in touch for more information about our grass mixtures, or for a copy of the Agrii Guide to Grass & Roots, or the Agrii Livestock Directory.

You can also scan the QR codes for the digital versions.

England, Wales and Northern Ireland

Grass & Roots 2024

Agrii

Livestock 2023/24

Agrii

Master Leys Mixture Selector – England & Wales

SHORT TERM	MEDIUM TERM	LONG TERM	OVERSEEDING	HORSE & PONY
<p>BULK MASTER One to two year cutting Grazing: ★ Cutting: ★★★★★ Hay: ★★★★★ </p>	<p>CUT MASTER Three to four year cutting Grazing: ★★★ Cutting: ★★★★★ Hay: ★ </p>	<p>SWARD MASTER Six year plus intensive grazing Grazing: ★★★★★  Cutting: ★★★ Hay: ★★★ </p>	<p>ST OVER MASTER Rejuvenate one to two year Grazing: ★ Cutting: ★★★★★ Hay: ★ </p>	<p>HORSE AND PONY PLUS PERENNIAL RYEGRASS Six plus years</p>
<p>SILAGE MASTER Two year cutting Grazing: ★★ Cutting: ★★★★★ Hay: ★★★ </p>	<p>PROTEIN MASTER Three year cutting Grazing: ★★ Cutting: ★★★★★ Hay: ★ </p>	<p>SWARD MASTER PLUS Multi-species grazing mix Grazing: ★★★★★ Cutting: ★★ Hay: ★ </p>	<p>MT OVER MASTER Rejuvenate three to four year Grazing: ★★★  Cutting: ★★★★  Hay: ★ </p>	<p>LAMI-LESS HORSE AND PONY Six plus years</p>
<p>DROUGHT MASTER Five to six year cutting & grazing Grazing: ★★★★★  Cutting: ★★★★★ Hay: ★ </p>	<p>STOCK MASTER Six year plus cutting/grazing Grazing: ★★★★★  Cutting: ★★★★★ Hay: ★★ </p>	<p>LT OVER MASTER Rejuvenate five plus years Grazing: ★★★  Cutting: ★★★★★ Hay: ★ </p>	<p>ST HAY MASTER Two years</p>	<p>LT HAY MASTER Six plus years</p>
<p>FORAGE MASTER Five to six year cutting & grazing Grazing: ★★★★★  Cutting: ★★★★★ Hay: ★★ </p>	<p>MULTI MASTER PLUS Six year plus cutting Grazing: ★★★ Cutting: ★★★★★ Hay: ★ </p>	<p>ST HAYLAGE MASTER One to two years</p>	<p>LT HAYLAGE MASTER Six plus years</p>	<p>ST HAYLAGE MASTER One to two years</p>
<p>FIELD MASTER Five to six year cutting & grazing Grazing: ★★★★★  Cutting: ★★★★★ Hay: ★★★ </p>				

Suitability scores:

★ = less suitable ★★★★★ = more suitable

 No clover version available




 White clover version available

 Red clover version available

Master Leys Mixture Selector – Scotland

SHORT TERM	MEDIUM TERM	MEDIUM/LONG TERM	OVERSEEDING	HORSE & PONY
<p>BULK MASTER One to two year cutting Grazing: ★ Cutting: ★★★★★ Hay: ★★★★★</p>	<p>CUT MASTER Three to four year cutting Grazing: ★★★ Cutting: ★★★★★ Hay: ★</p>	<p>SCOT MASTER Four to seven year cutting/grazing Grazing: ★★★★★ Cutting: ★★★★★ Hay: ★★</p>	<p>ST OVER MASTER Rejuvenate one to two year Grazing: ★ Cutting: ★★★★★ Hay: ★</p>	<p>HORSE AND PONY PLUS PERENNIAL RYEGRASS Six plus years</p>
<p>SHORT/MEDIUM TERM</p> <p>PROTEIN MASTER Two to three year cutting Grazing: ★★★ Cutting: ★★★★★ Hay: ★</p>	<p>SILAGE MASTER Four to six year cutting Grazing: ★★★ Cutting: ★★★★★ Hay: ★★</p>	<p>LONG TERM</p> <p>SWARD MASTER Seven year plus intensive grazing Grazing: ★★★★★ Cutting: ★★★ Hay: ★★</p>	<p>MT OVER MASTER Rejuvenate three to four year Grazing: ★★★ Cutting: ★★★★★ Hay: ★</p>	<p>LAMI-LESS HORSE AND PONY Six plus years</p>
	<p>TURBO MASTER Four to six year cutting/grazing Grazing: ★★★★★ Cutting: ★★★★★ Hay: ★★</p>	<p>SWARD MASTER PLUS Multi-species grazing mix Grazing: ★★★★★ Cutting: ★★ Hay: ★</p>	<p>LT OVER MASTER Rejuvenate five plus years Grazing: ★★★ Cutting: ★★★★★ Hay: ★</p>	<p>ST HAY MASTER Two years</p>
	<p>FIELD MASTER Four to six year cutting/grazing Grazing: ★★★★★ Cutting: ★★★★★ Hay: ★★★★★</p>	<p>HILL MASTER Seven year plus hardy grazing Grazing: ★★★★★ Cutting: ★★ Hay: ★★</p>		<p>LT HAY MASTER Six plus years</p>
				<p>ST HAYLAGE MASTER One to two years</p>
				<p>LT HAYLAGE MASTER Six plus years</p>

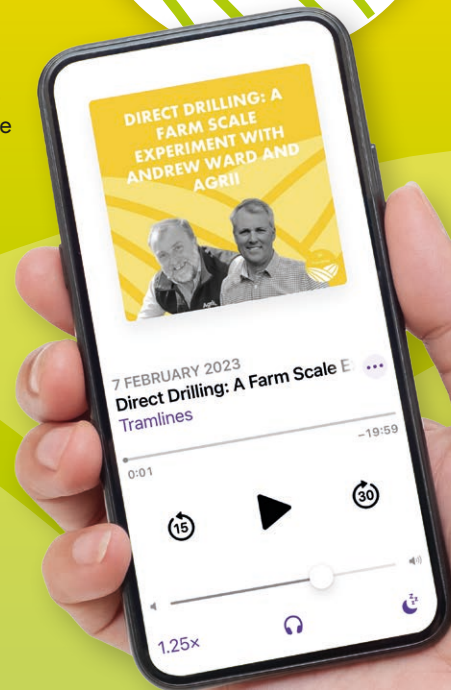
Suitability scores:
 ★ = less suitable ★★★★★ = more suitable

 No clover version available
 White clover version available
 Red clover version available

Tramlines Podcast

Tramlines is the only farming podcast that delivers advice to growers on how to improve environmental performance and maximise farm profitability.

By tuning into Tramlines, you will benefit from listening to episodes that feature experts and experienced farmers, who share valuable information on best practices, new techniques, and the latest research in agriculture. Join the experts bi-weekly as they address common problems and solutions and stay up-to-date with the latest developments. With CPD points up for grabs on certain episodes, topics range from digital innovations to soil health and the discussions are supported by Agrii's extensive trials programme and environmental work.



Top 3 Variety Episodes



1. Sustainable Decisions Start with Seed

CLAIM CPD POINTS: To claim 1 BASIS and NRoSO point for listening to this podcast, email info@agrii.co.uk with your membership number, full name, postcode and date of birth.



2. VR Seed: Fail to Prepare or Prepare to Fail



3. Direct Drilling: A Farm Scale Experiment with Andrew Ward and Agrii

Follow on your favourite podcast platform
or listen at: www.agrii.co.uk/tramlines-podcast



Seed treatments

i-Man (Manganese) FOR WHEAT, BARLEY, OATS AND RYE

i-Man applies manganese (Mn) at 450 g/tonne and delivers 20% more Mn than New Manganese Solution. It also contains a unique chelating agent which protects Mn from being locked up by the soil so more is taken up by the plant than with any other formulation.

Zax (Zinc) FOR WHEAT, BARLEY AND OATS

Zinc is an essential micronutrient. Harvested cereal grain and oat straw remove significant quantities of zinc from the soil. Zax delivers 450 g/tonne of readily available zinc. It has been tested by Agrii for the past seven years and is an exclusive product.

Fielder (Copper) FOR WHEAT, BARLEY AND OATS

Spring barley is particularly sensitive to copper deficiency. Fielder Copper provides a readily available source of copper to the emerging seedling, reduces the need for complex foliar tank mixes and it is compatible with other seed treatment products in the Agrii range.

Take Off ST[®] (Phosphite + PGA)

FOR CEREALS, PULSES, MAIZE AND OILSEEDS

Contains two complementary patented biostimulants; Phosphite to increase root biomass and root hair production, and Pyroglutamic Acid (PGA) to increase carbon fixation and nitrate utilisation. Take Off ST[®] increases early vigour and yield, especially under more challenging conditions. Exclusive to Agrii.

Note: Zax and Take Off together are not available as a seed treatment combination.



Rancona iMix (Ipconazole + Imazalil)

FOR SPRING BARLEY

Rancona is the preferred base treatment for spring barley as it provides control of seedling blight, loose smut and the highest level of leaf stripe control. It can also be co-applied to boost the activity of Vibrance Duo against loose smut when used in seed production. It is widely compatible with other treatments.

Beret Gold (Fludioxonil) FOR SPRING WHEAT

A basic fungicidal seed treatment for seed and soil-borne disease control. Widely compatible.

Vibrance Duo (Sedaxane + Fludioxonil)

FOR WHEAT, BARLEY AND SPRING OATS

Controls the key seed and soil-borne diseases, stimulates root development and above ground biomass. Co-apply with Rancona iMix for full control of loose smut in barley. Also applied at half rate to spring oats to control loose smut.

Peridiam Active 315

FOR MAIZE AND PULSES

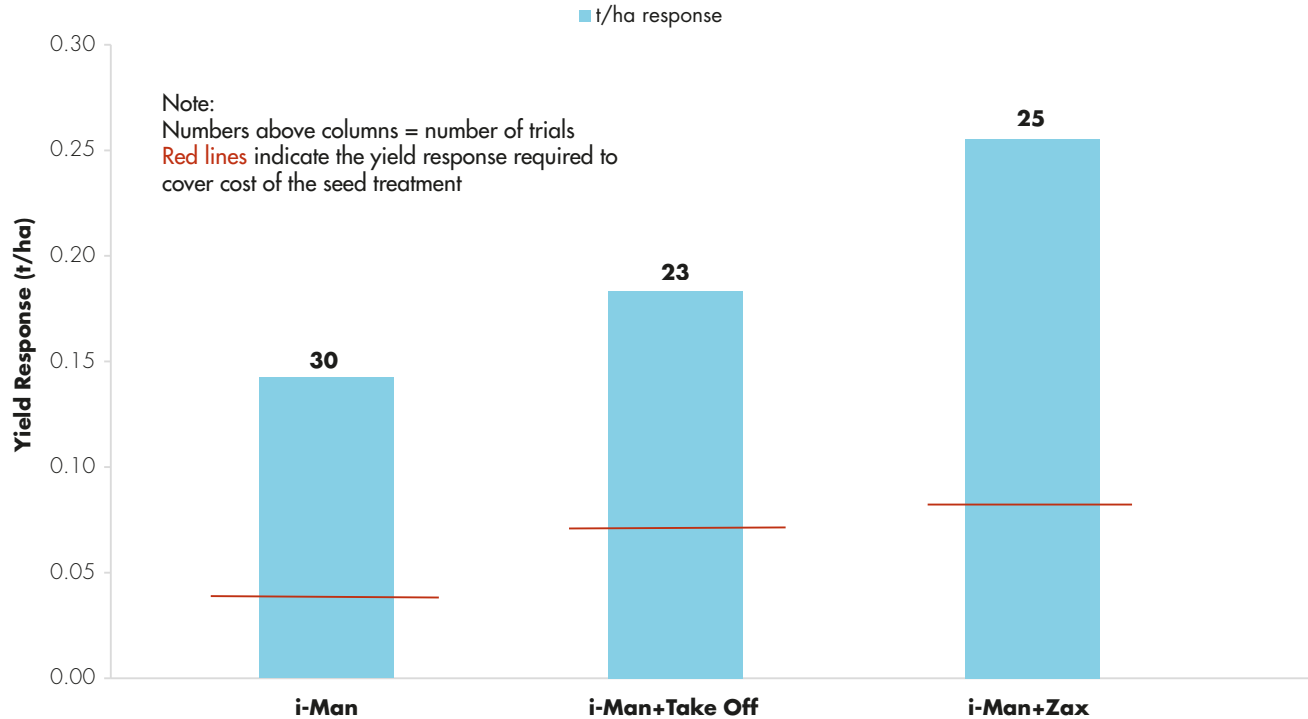
A seed coating, which improves the physical properties of the treated seeds.

Kinto Plus (Fludioxonil + Fluxapyroxad + Triticonazole)

FOR RYE

A seed treatment that controls the main seed and soil-borne diseases and stimulates root development.

AGRII SPRING BARLEY SEED TREATMENT YIELD RESPONSE, 2010-2023



Source: All seed treatment data from 2010 to 2023 (i.e. replicated and unreplicated trials).
107 data points. Overall mean yield of controls = 7.58 t/ha.

Farm saving your seed

The complete service from harvest to drilling

Pre-harvest/harvest management advice and comprehensive seed testing service

Improve the marketability of your crop with our bulk grain cleaning and colour separation service

Timely processing of seed by full-time, experienced and qualified operators

Exclusive seed treatments backed by Agrii's extensive R&D trials programme

Ongoing agronomic advice on drilling date, seed rates and establishment



THE BENEFITS

Identify the most suitable fields, crops and varieties for farm saving.

Improve specific weight and remove contaminants such as ergot.

TGW testing at point of processing. Flexibility over quantities and treatments right up to planting.

Technical seed treatments tailored to individual requirements.

Seed on farm for optimum drilling date. Cost saving and improved cash flow at a critical time of year.

The cost benefit of Agrii's seed treatments:

Seed Treatment	Cost £/ha @ 6 ha/t	Yield to cover cost (t/ha)	Yield response (t/ha)	Value of response (£)	Net Value (£/ha)	Number of Trials
i-Man	9.8	0.05	0.14	26	16	30
Take Off	8.3	0.05	0.10	16	8	78
Zax	9.3	0.05	0.12	22	13	37
i-Man + Take Off	16.0	0.09	0.18	33	17	23
i-Man + Zax	16.7	0.09	0.26	46	29	25
Vibrance Duo	10.5	0.06	0.04	7	-3	10

Based on spring barley @£250/t

See pages 36 & 37 for more information on our comprehensive range of seed treatments.

Farm Saved Seed nationwide service

- | | |
|----------------------------------|---------------------------------|
| 1 David Graham
07785 332218 | 7 Richard Hill
07970 230374 |
| 2 George Proctor
07587 770359 | 8 Mark Taylor
07836 527251 |
| 3 David Steel
07834 905562 | 9 Gavin Taylor
07973 854046 |
| 4 Wayne Ford
07551 156217 | 10 Matt Carlton
07885 253450 |
| 5 Roy Jefford
07545 207970 | 11 Kevin Crouch
07769 832201 |
| 6 Tom Zealand
07970 677868 | |



Farm saving your seed

Our Farm Saved Seed team answer some of the questions they are most frequently asked when out on farm, processing your seed. Follow the QR code to watch and hear our team answering your questions in person.



What do I need to have prepared for when you arrive on farm?

1. Seed that's below 16% in moisture.
2. The seed needs to be in a trailer with a chute on it.
3. A forklift and a person to operate it to remove the processed bags.

How much money can growers expect to save by farm saving their seed?

On average a saving of around £100 per tonne can be made by farm saving your seed.

What are the benefits of having my farm saved seed processed and treated?

1. Firstly, we're looking to produce a better sample. We do this through sieving and screening to remove the smaller grains and weed seeds and produce a nice bold sample to provide the best start for your crop.
2. It's also important to apply the correct seed treatment. We can apply a base seed treatment for the greatest protection against seed and soil borne diseases. In addition we can offer targeted nutritional and biostimulant treatments to give the crop an extra boost, especially under challenging conditions.

How do the royalties work with farm saved seed?

Agrii will always show a separate BSPB charge per tonne on the invoice, which is then passed to BSPB twice yearly when audited, with the money then duly passed onto the appropriate breeder. Growers can request to pay BSPB direct. In this case they need to make a declaration to BSPB of each variety and area sown.

There are a few varieties that do not fall under the BSPB scheme, but are instead collected by BIPO. These varieties do not enjoy the same 50% reduction in royalty cost. Growers should be made aware of the collection process and the costs involved at the time of purchasing their certified seed.

Am I paying for a lower quality product by using farm saved seed?

Generally speaking, this is not the case and can in fact be the opposite. Our farm saved seed team are visiting your farm to dress your seed, so it largely depends on the quality of your seed.

However we can use our machines to get the best out of what you've got – dressing it as hard as you like, losing as much small seed as possible and getting the boldest sample possible. So, it can be a case of getting a really high-quality product – designed exactly how you want it and at exactly the grain weight you would like.

At what speed can you process farm saved seed?

It depends on the quality of the seed, how much we need to take out of it and how many tonnes are being processed. These factors vary, but an average would be 8-10 tonnes/hour.

I only have a small amount of seed that needs dressing – will you still come out?

No tonnage is too small. It might be the case that you have to wait a while depending on where our machines are, especially in busy periods. However, the simple answer is, if our customers need us, we will be there, and no order is too small.

Can we use our own bags, or do we need to buy new bags?

We would always recommend going with new bags, ensuring the best quality and following all health and safety requirements. You can use your own bags if they're free of contamination, free of vermin and are in good condition.



Profitable end markets

Agrii is committed to providing its customers a complete service, from advice to inputs and grain marketing. The marketing of grain is an integral part of any farm business and the impact of recent global events has highlighted the importance of excellent supply chain relationships.



Viterra has port and storage facilities throughout England and Scotland and strategic links with all major consumers throughout the UK and into Europe.

- + Agrii's research into variety selection coupled with Viterra's detailed knowledge of the market, gives growers a selection of low risk, high output crop options.
- + Marketing choices include buy-back contracts, pool marketing or movement at harvest with an option to price later.
- + The Grainman sales and account management system at www.grainman.co.uk can be used to obtain prices and accept bids, view samples and monitor grain movements and payments.

For more information please speak to your usual Agrii contact.

You can also get in touch directly with Viterra UK Ltd on 01844 261261 or by email at thame.Origination@viterra.com or lucy.b-exley@viterra.com (Scotland).



Buy-backs

GB Seeds is the specialist seeds and grain marketing division of Agrii and offers a range of buy-back opportunities on various crops.

Contracts include naked oats, linseed, maple peas, yellow peas, small blue peas, tic beans and canary seed; subject to seed and contract availability.

Call 01284 729200
Email info@gbseeds.co.uk

Our seed and grain offer is fully integrated with varieties selected through our vast R&D network. This helps us to identify the best products to meet consumer demand, from malting barley to milling wheat, oilseed rape to pulses, and naked oats to innovation crops.

Whether you are looking for a premium market or growing feed grains Agrii, Viterra UK Ltd and GB Seeds will be able to meet your needs.

Naked Oats

Naked Oats are grown exclusively on contract for Agrii/GB Seeds and are used in multiple sectors.



GB Seeds have been at the forefront of naked oats in the UK for many years – covering all aspects of the crop and focusing on the entire chain from seed production to the development of end markets.

We work closely with our end users and plant breeders to enhance and raise the profile of this high value quality product.

Due to the nature of these markets, there are limitations on how much area can be contracted.

Please speak with a member of the team at GB Seeds, or your local Agrii agronomist, for details and contract availability.

Agrii iFarm Results Report: Harvest 2023

The 22/23 season was undoubtedly a disease pressured year with variety choice being an important component to disease risk management.

Enclosed in this year's report, you will find variety results on our winter cereal and oilseed rape trials as well as a special feature on drones in action and variable rate nitrogen with RHIZA.

Our iFarm report covers all 16 iFarm sites and 6 Technology Centres and is categorised by region to ensure you can easily locate the trials reports most relevant to your farm and localised weather pressures, as well as a national overview. We hope you will find the information useful to inform future decisions on variety choice for disease, pest and lodging management.

Download the report

Read the results report and claim CPD points by answering four questions. Details on how to participate enclosed in report.



DK EXSTEEL

THE CONSISTENT ALL-ROUNDER

Find out more:



**ULTRA-RAPID
AUTUMN
DEVELOPMENT**



**DOUBLE PHOMA
RESISTANCE**



**HIGH LIGHT LEAF
SPOT RESISTANCE**

BREEDER'S VIEW

DK EXSTEEL is a very high yielding hybrid with an exceptionally high oil content and an agronomy package that makes it especially consistent in its performance in the field. It is as well-suited to later sowing as it is to the main sowing window.



Your local contacts

Agri intelligence



Local Contacts

A	Lincoln Seed Plant	01522 513351	6	Gavin Taylor	07973 854046
B	Finmere Seed Plant	01280 848848	7	Sophie Dillon	07826 956226
C	Moreton Seed Plant	01277 899700	8	Poppy Bunting	07967 593776
D	GB Seeds	01284 729200	9	Rob Stuart	07563 390273
1	Lauren Rettie	07964 510067	10	Ian Davy	07890 550559
2	Harriet Blakey	07593 385979	11	Angie Baker	07796 193895
3	Rebecca White	07721 128172	12	Will Sanderson	07980 943538
4	Matt Richardson	07887 547287	13	Cas Sandy	07970 641741
5	Samantha Gallagher	07841 777026	14	Louise Rawlinson	07721 788943

Seed Commercial Team

Lee Robinson	Executive Director of Seed	07860 523109
Rodger Shirreff	National Seed Business Manager	07831 188500
Louise Rawlinson	Seed Commercial Operations Manager	07721 788943
Lauren Rettie	Regional Seed Manager – Scotland	07964 510067
Jess Preston	Seed Commercial Operations Support	07870 546599
Mark Taylor	National Farm Saved Seed Business Manager	07836 527251
Ben Lowe	National Forage Product Manager	07966 533374
Adam Simper	National Grass, Roots and Environmental Seeds Manager	07767 007021
Rebecca White	Specialist Break Crop Product Manager	07721 128172

Seed Technical Team

John Miles	Seed Technical Manager	07855 130439
David Leaper	Seed Technical Specialist	07972 188228
Simon Hobbs	Cover Crop, Environmental & Wildflower Seeds Technical Manager	07770 643365



For all your seed enquiries please contact your Crop Inputs Specialist on one of these numbers or your local Agronomist.

Printed using vegetable inks on paper made from FSC® certified and traceable pulp sources. Manufactured in accordance with ISO certified standards for environmental, quality and energy management. A Carbon Balanced product with World Land Trust certificates.



Agrii™