



# SPRING SEED BROCHURE 2021





## CONTENTS

Spring 2021	2
About us	3
Crop Trials	4
Drill dates and Seed rates	5
Excitement for Spring Barley	6-7
Barley	8-13
Wheat	14-17
Oats	18-19
Beans	20-21
Seed dressings for Spring 2021	22-24
Nutritional seed dressings	25-27
Other mixtures	28-31
Fertilisers	32
Useful contacts	33

## SPRING 2021

**With enhancements to the plant and processes completed earlier this summer, we have had a very successful autumn seed production run and have now started producing our spring seed.**

We have extensive seed stocks across a range of varieties with some new barley, oat and bean additions, such as new malting barley SY Tungsten from Syngenta. As normal, we will be cleaning and dressing farm saved seed and this year more than ever, it is essential to get your seed tested for germination; we can arrange this for you via SGS in Driffeld. Any farm saved bean seed should also be tested for Ascochyta and stem nematode.

As well as new varieties there are two new seed treatments available this spring:

Following its successful use on winter cereals and spring wheat and oats, where it gives crops a visible kick start, **Vibrance Duo** can now be used on **spring barley**, when co-applied with Rancona i-mix.

For beans, a new phosphite product, **Zest**, similar to Kick Off, is now available to help rapid establishment.

We are also now selling an extensive range of cover and game crop mixes to support the roll out of ELM schemes.

**Thank you for your ongoing support this autumn and we look forward to doing business in the coming spring 2021 season.**

## ABOUT US

James Mortimer Limited are independent grain, seed and fertiliser merchants in Driffeld, East Yorkshire who produce the highest quality seed at their new production facility. The state of the art plant ensures thorough cleaning and accurate chemical application of all cereals and pulses and James Mortimer Ltd offer a service for both certified and farm saved seed.

### FARM SAVED SEED

Included in the farm saved seed service is an option to haul your tonnage to and from our plant. Alternatively, we can arrange for your grain to be collected and brought back to farm. We can also test seed for germination and TGW. If a Glyphosate type product has been used, a full grow-on test would be required. Collection of any BSPB royalty is typically undertaken by us and paid over on your behalf. Alternatively, you are free to pay royalty on a hectare basis. Full guidance is available on request.

We have our own on site weighbridge: farm saved seed will be weighed in and screenings will be credited with their feed value at the time. Our emphasis is on quality when cleaning and treating your farm saved seed. Our Cimbria seed cleaning equipment ensures the seed is cleaned to a very high standard, and accurate chemical application through the Bayer Evolution seed treatment applicator, results in the best possible start to your crop.

### CERTIFIED SEED

Certified Seed wherever possible will be selected from one of our own local quality growers. Our staff regularly inspect the growing crops to ensure they are grown to the highest standard and in the best possible conditions and our next generation of inspectors are being independently trained to add to our capacity. Once harvested, we undertake full germination, purity and screening tests on all lots. During intake, the seed is checked again before it is allowed to tip.

Once cleaned, a representative sample is taken to an Official Seed Testing Station for a germination and purity test. We are always competitive on price and service. While it is impossible to stock every variety, we will be very pleased to offer impartial advice on varietal selection and chemical applications.

# JAMES MORTIMER LTD

## CROP TRIALS 2021

New for 2021, James Mortimer have our own independent crop trials, very kindly hosted on one of our customers farms, close to Driffield on the Yorkshire Wolds. We have drilled a wide range of winter barley and wheat varieties, both new and existing. The trials are on a farm scale, to give

our customers a realistic view for future selection. Please let your farm representative know if you would like to look around the trials at any point. We look forward to holding several small trial afternoons and evenings in summer 2021.



## CONTACTS

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Some of the new varieties at the trials include:

### BARLEY'S:

**Malting:** SY Vessel

**2-Row Feed:** KWS Tardis, Bolton, Bordeaux, SU Laubella, Pixie, Valerie.

**Hybrid:** SY Thunderbolt

### WHEATS:

**Group 3 Soft:** LG Astronomer

**Group 4 Hard:** KWS Cranium, RGT Silversurfer, Banquo, Champion, RGT Wolverine (BYDV tolerant), KWS Parkin.

## DRILLING DATE AND SEED RATES:

Whilst waiting for the right conditions is often more important than exact drilling date for spring crops, optimal drilling dates and seed rates are key for rapid establishment and final yields.

Below is a guide to drilling date and seed rates:

	Mid Nov-Late Jan (seeds/m <sup>2</sup> )	Late Jan- Mid March (seeds/ m <sup>2</sup> )	Mid March + (seeds/ m <sup>2</sup> )
Spring Wheat	400-450	400-450	400-500
Spring Barley	325-350	350-375	350-400
Spring Oats		425	450
Spring Beans		45-50	45-50

# EXCITEMENT FOR SPRING BARLEY

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**With exciting varieties and a new seed treatment, there are some real opportunities in spring malting barley.**

## LAUREATE

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Spring malting barleys come and go, but Laureate is on a firm footing. A dual-purpose variety with full approval for malt distilling and brewing on the MBC approved list, it's become a popular choice among maltsters, which gives the James Mortimer team confidence.

On-farm, Laureate has delivered good yields and its maturity suits our region. Importantly, its yield has been consistent – holding up well even in the difficult 2020 season, with growers pleasantly surprised.

## NEW – SY TUNGSTEN

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From the same breeder as Laureate (Syngenta), also comes the new spring malting barley variety, SY Tungsten.

Currently holding provisional approval 1 for malt distilling and brewing uses on the MBC approved list for harvest 2021, it looks a strong option with good yield, and has performed consistently well over the years in trials. We are hopeful SY Tungsten will gain full approval.

It also has similar maturity to Laureate and good resistance to lodging and brackling. With Syngenta's track record in wheat and barley breeding, it's a variety we want to be involved with from the start.

## NEW – SY SPLENDOR

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Also from Syngenta comes SY Splendor – another new spring barley to watch, particularly for the 2022 season. A potential brewing variety with a similar high yield to SY Tungsten, we like its characteristics and are looking to plant SY Splendor seed crops in 2021.

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*"Laureate is a consistent variety – it has proved that by taking such a big market share. We expect it to be number one for at least two more years."*

*"It is a dual-purpose variety, so it does malt distilling and brewing, which is good risk cover for the grower."*

*"SY Tungsten and SY Splendor are going through the MBC testing system and at this stage are looking promising."*

**Mark Ineson, Muntons**

## NEW SEED TREATMENT OPTION – VIBRANCE DUO

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With growers looking to achieve similar margins from spring barley as from winter wheat, anything that helps crop emergence can only be good.

Ever since its launch, the fungicide seed treatment Vibrance Duo has become increasingly well-recognised for improving winter wheat establishment and root development. The good news is Vibrance Duo can now also be used in barley.

Syngenta recommends it is co-applied with a loose smut-active seed treatment in barley and Vibrance Duo cannot be used on barley seed crops grown for certified seed production. Crucially, however, both active ingredients in Vibrance Duo have been accepted by the British Beer and Pub Association for use on malting barley.



## AHDB Recommended List Spring barley 2021

Market options, yield and grain quality



	Skyway	SY Splendor	SY Tungsten	Firefox	Cosmopolitan	LG Diablo
End-use group	Malting varieties					
Scope of recommendation	UK	UK	UK	UK	UK	UK
	NEW				C	C
Fungicide-treated grain yield (% treated control)						
United Kingdom (7.5 t/ha)	106	103	103	103	102	102
East region (7.5 t/ha)	106	103	101	102	102	103
Main market options						
MBC malting approval for brewing use	T	P	P	-	P	F
MBC malting approval for malt distilling use	-	-	P	P	-	F
MBC malting approval for grain distilling use	-	-	-	-	-	-
Grain quality						
Specific weight (kg/hl)	68.7	67.9	67.4	66.4	66.2	66.9
Screenings (% through 2.25 mm)	1.3	1.7	1.9	1.7	1.6	1.6
Screenings (% through 2.5 mm)	3.3	4.5	5.0	4.2	3.7	3.9
Nitrogen content (%)	1.52	1.51	1.46	1.50	1.48	1.48
Fungicide-treated grain yield (% treated control)						
United Kingdom (7.5 t/ha)	106	103	103	103	102	102
East region (7.5 t/ha)	106	103	101	102	102	103
Untreated grain yield (% treated control)						
United Kingdom (7.5 t/ha)	96	91	91	92	93	94
Agronomic features						
Resistance to lodging (no PGR) (1–9)	7	7	7	7	7	7
Straw height (cm)	75	73	73	71	70	72
Ripening (+/-Concerto, -ve = earlier)	+1	+2	+1	+1	+1	+2
Resistance to brackling (1–9)	8	8	8	8	7	8
Disease resistance						
Mildew (1–9)	9	9	9	9	9	9
Brown rust (1–9)	-	3	4	4	4	5
Rhynchosporium (1–9)	-	[4]	[4]	[5]	6	5
Breeder/UK contact						
Breeder	NS	SyP	SyP	Ack	Sej	LimEur
UK contact	Agr	Syn	Syn	ElsAck	Sen	Lim
Annual treated yield (% control)						
2018 (6.8 t/ha)	106	103	103	103	103	102
2019 (7.8 t/ha)	106	104	102	103	102	102
2020 (7.4 t/ha)	105	103	103	102	102	102
Malting quality						
Hot water extract (l deg/kg)	314.5	314.0	314.7	313.8	313.2	314.1
Status in RL system						
Year first listed	21	20	20	20	19	18
RL Status	P1	P2	P2	P2	-	-

Laureate	RGT Planet	Iconic	Sienna	KWS Sassy	Propino	Fairing	Cadiz	Fairway	Prospect
UK	UK	W	UK	UK	UK	Sp	E&W	UK	UK
C	C		*		*C		NEW		
101	100	99	98	98	95	93	103	103	102
102	99	98	96	96	94	92	105	103	104
F	F	P	-	N	O	-	-	-	-
F	N	-	O	F	N	-	-	-	-
-	N	-	N	-	N	F	-	-	-
66.3	67.8	67.1	70.2	68.4	68.1	68.2	67.4	65.6	67.7
1.6	1.4	1.8	1.8	1.2	1.0	1.1	1.0	1.5	2.0
3.8	3.8	4.6	4.2	2.9	2.2	2.8	2.3	3.8	4.8
1.51	1.51	1.51	-	[1.51]	1.60	-	1.56	-	1.55
101	100	99	98	98	95	93	103	103	102
102	99	98	96	96	94	92	105	103	104
93	91	93	90	91	82	84	94	91	94
7	7	7	7	6	7	7	7	7	7
70	73	76	77	78	75	72	75	71	71
+1	0	0	+1	+1	0	-1	+1	0	+1
8	8	8	7	6	8	8	8	8	9
9	9	9	9	9	6	8	9	9	9
5	5	5	5	5	5	4	-	-	5
6	5	[6]	5	6	5	6	-	[3]	[6]
SyP	RAGT	Sec	LimEur	KWS	SyP	SyP	NS	NS	Sej
Syn	RAGT	Agr	Lim	KWS	Syn	Syn	Sen	Sen	Sen
102	98	100	97	97	95	94	104	103	102
102	100	98	98	98	94	93	104	103	103
102	99	99	98	97	95	92	103	102	102
314.2	313.9	315.5	-	314.8	311.1	[308.2]	312.8	[312.8]	312.8
16	15	20	15	16	10	16	21	20	20
-	-	P2	*	-	*	-	P1	P2	P2

## MALTING



**SY Tungsten** (parentage RGT Planet x Ovation) is a new variety added to the AHDB Recommended List in 2020 and is the highest yielding dual purpose variety for the brewing and malt distilling market, with very strong support from end-users. It has good straw strength with a very good brackling score (8) and lodging resistance. It has a high specific weight of 67.7 kg/hl and an untreated yield of 95%.



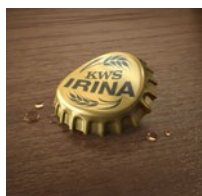
**LG Diablo** (parentage Overture x Sanette) is the highest yielding barley that has full approval in both the malting and brewing sector. It has relatively stiff straw and good brackling resistance. LG Diablo is medium in height, has a good overall disease profile with good resistance to mildew. As well as being a dual use malting variety, LG Diablo also makes an excellent and high yielding feed barley.



**Laureate** (parentage Sanette x Concerto) remains the most popular spring malting variety with strong demand for both brewing and distilling and has very reliable on farm performance. Agronomically, Laureate has a strong disease resistance profile as well as good resistance to lodging and brackling.

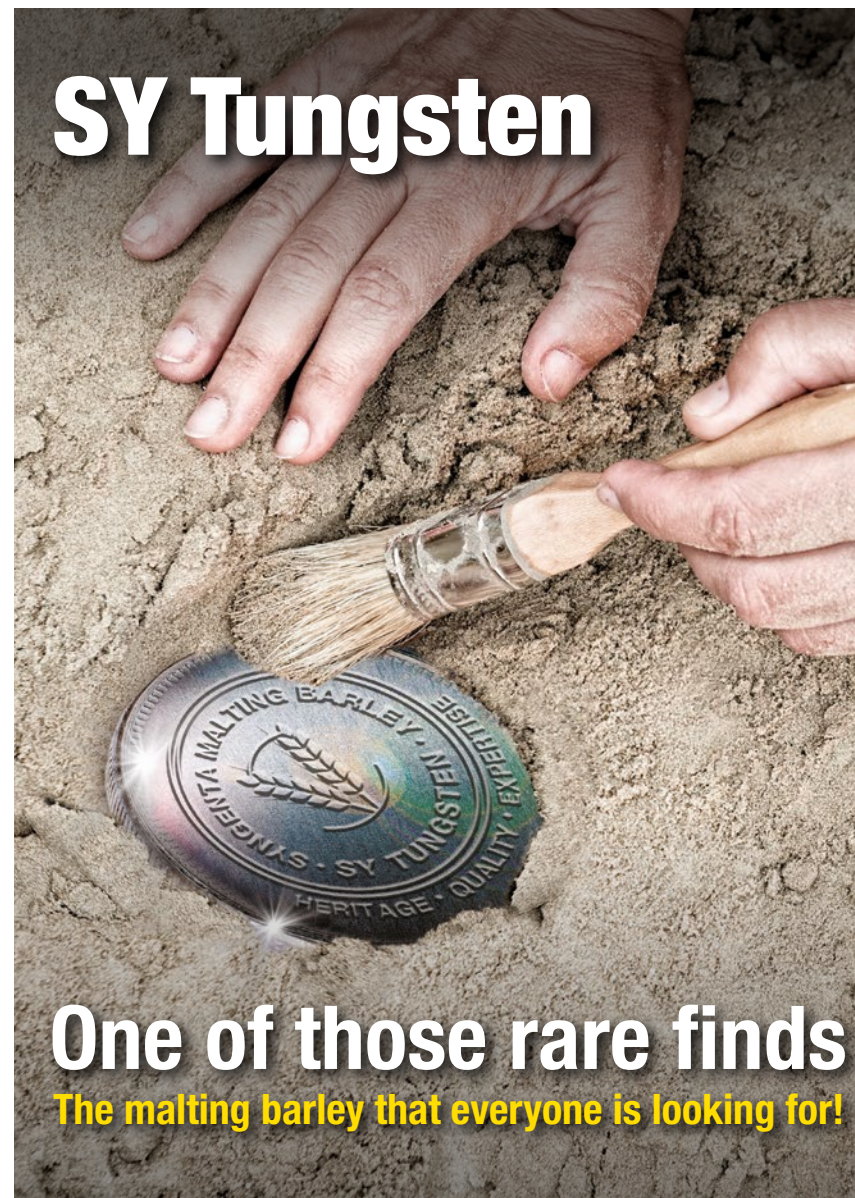


**RGT Planet** (parentage Tamtam x Concerto) is a very high yielding variety and is an ideal choice for farmers requiring a bold grain ideal for feeding with good straw quality. RGT Planet has full approval for brewing as well as export potential and will be of interest to growers looking for a combination of very high yields and quality. It is slightly earlier to mature than other varieties.



**KWS Irina** (Conchita x Quench) is a very high yielding feed variety which has quality straw and excellent resistance to brackling. It has been a very popular feed variety with high bushel weight and excellent on farm consistency for numerous years.

# SY Tungsten

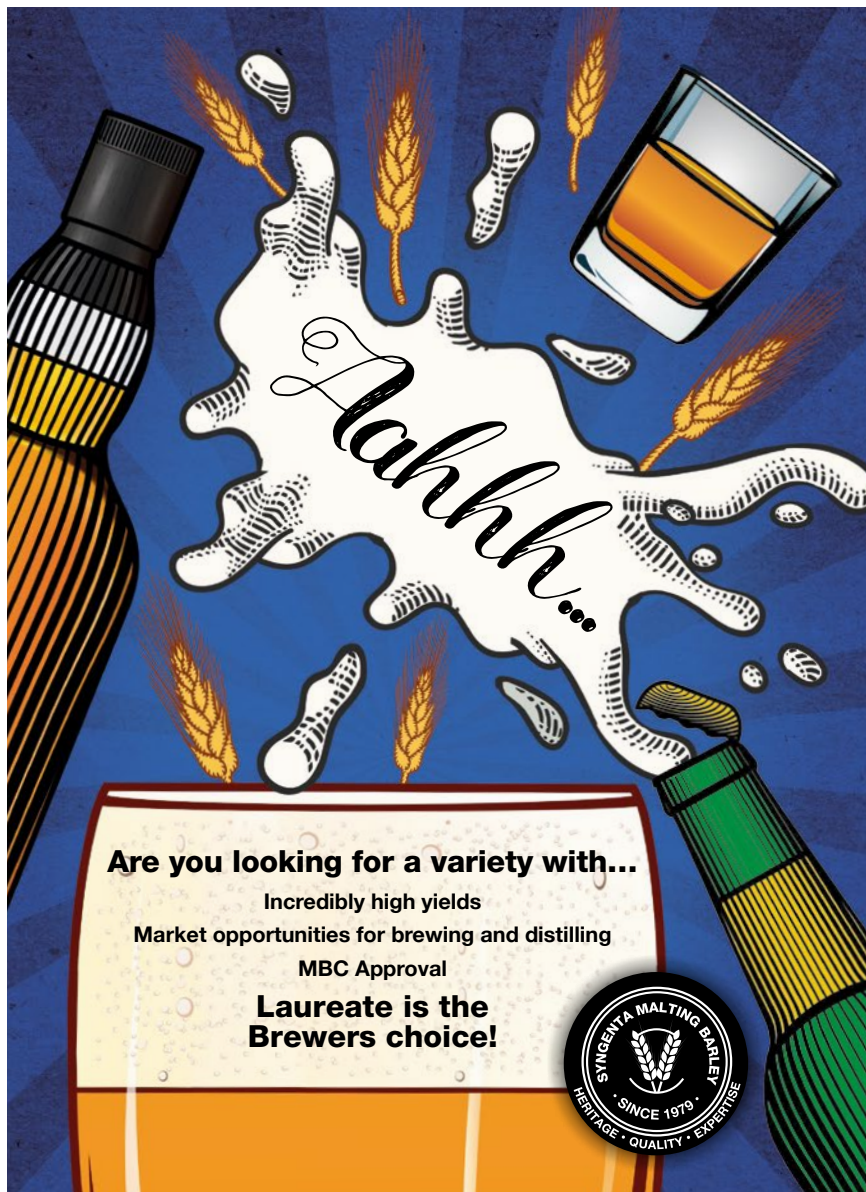


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MBC Approval

**Laureate is the  
Brewers choice!**



 **Laureate**  
Spring barley

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BARLEY

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It isn't by chance we are Europe's number one cereal breeder, supplying seed across the world. Consistently developing and growing outstanding varieties such as RGT Skyfall responsible for exceptional yields which deliver 'complete package' features and characteristics demanded by farmers and end users. Discover seed varieties you can have total confidence in. Discover how you can **grow to expect the best**.

 RGT Planet. Recommended List 2021.  
High yielding, fully approved,  
spring barley.

  
Approved

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# WHEAT

## Mortimers Recommended List

### Spring wheat 2021



	Mulika	KWS Cochise	KWS Giraffe	KWS Chilham
End-use group	Group 1	Group 2		
Scope of recommendation	UK	UK	UK	UK
	C	C		
UK yield as % control (spring sowing)				
Fungicide-treated (6.8 t/ha)	94	106	103	100
Untreated (% treated control) (6.8 t/ha)	[82]	[84]	-	[87]
UK yield as % control (autumn sowing)				
Fungicide-treated (9.1 t/ha)	96	103	[104]	101
Grain quality (spring sowing)				
Endosperm texture	Hard	Hard	Hard	Hard
Protein content (%)	13.6	13.2	13.6	13.0
Hagberg Falling Number	321	239	296	329
Specific weight (kg/hl)	77.4	79.0	79.8	78.4
Agronomic features (spring sowing)				
Resistance to lodging with PGR ∞	-	-	-	-
Straw height without PGR (cm)	80	81	78	77
Ripening (+/- Mulika, -ve = earlier)	0	+1	+1	0
Resistance to sprouting ∞	-	-	-	-
Disease resistance				
Mildew (1-9)	7	8	[8]	[7]
Yellow rust (1-9)	7	4	6	7
Brown rust (1-9) ∞	-	-	-	-
Septoria tritici (1-9)	6	6	5	7
Orange wheat blossom midge	R	R	-	R
Annual treated yield (% control, spring sowing)				
2016 (8.5 t/ha)	[93]	[102]	-	[99]
2017 (7.3 t/ha)	93	107	[103]	102
2018 (5.5 t/ha)	[95]	[107]	[107]	[99]
2019 (6.9 t/ha)	94	107	102	98
2020 (6.2 t/ha)	[98]	[105]	[101]	[103]
Breeder/UK contact				
Breeder	BA	KWS	KWS	KWS
UK contact	Sen	KWS	KWS	KWS
Status in RL system				
Year first listed	11	17	20	17
RL status	-	-	P2	-

Hexham	Belepi	KWS Kilburn
Group 4		
UK	UK	UK
105	108	103
[96]	81	[82]
106	[110]	-
Hard	Soft	Hard
12.7	12.6	13.2
275	263	270
77.8	77.9	76.1
-	7	-
81	88	82
+2	-3	+3
-	7	-
[6]	7	[7]
9	5	5
-	6	-
7	7	6
-	R	-
[106]	-	[103]
[103]	-	102
[100]	[113]	[100]
105	106	100
[109]	[107]	[107]
Sen	BA	KWS
Sen	Ebb	KWS
19	14	14
-		-

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

## WHEAT

### MULIKA SPRING WHEAT

**Mulika** (Paragon x (Tybalt x Robigus)) is the only spring Group 1 recommended variety. It has a good protein content, hagberg and specific weight. Mulika has a solid disease package including resistance to orange wheat blossom midge. However, it is starting to lag behind in yield in comparison to some newer varieties.

### KWS COCHISE

**KWS Cochise** (Ashby x Lapis) is the highest yielding spring wheat on the recommended list with 11% higher yield than Mulika. It is a Group 2 variety, with good grain quality, a high specific weight of 79.1% and good protein content. KWS Cochise has a high untreated yield of 82%, reflecting a good all round disease profile, with resistance to orange wheat blossom midge.

### hexham SPRING WHEAT

**Hexham** (KWS Westfield x KWS Flint) is a high yielding group 4 feed wheat with a good quality grain but is slightly later to mature. It has stiff straw and good disease resistance of 9 for yellow rust and 7 for Septoria Tritici. However, brown rust should be watched (5).



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## KWS COCHISE

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- Great protein and specific weight
- OWBM resistant



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The best combination of yield  
and specific weight available!

## WPB ISABEL

- High yielding husked spring oat
- Best specific weight of any recommended husked spring oat on the 2021 RL
- High kernel content with good screenings



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## OATS

### WPB ISABEL

**WPB Isabel (LW 03W0383-06 x Husky)** is a new variety on the AHDB recommended list and is the second highest yielding variety at 104 with the largest specific weight on the list of 54.5. It has a high kernel content and low screenings and is liked by the millers.

### CANYON

**Canyon (99/126 x Loch 1177)** has been on the recommended list for 10 years and produces high yields of 101. It has excellent resistance to mildew and has a good specific weight but is susceptible to crown rust.

### WPB ELYANN

**WPB Elyann ((Ivory x LW 00W035-01) x LW97W020-01)** is a relatively new variety on the AHDB recommended list which is stiff straw, early to ripen and has an excellent kernel content. It has moderate disease resistance.





## BEANS

### LYNX

**Lynx** – One of the top yielding spring bean varieties at 106%, with a very good downy mildew resistance. It is a moderately tall plant but has good standing ability. It is slightly later to mature than Fuego but has a medium sized grain, suitable for the premium export market.

### Vertigo

SPRING BEAN

**Vertigo** – A high yielding spring bean with an average yield of 102%. It is of similar height to Lynx with moderate standing ability and medium maturity. It has moderately good resistance to downy mildew with a large bold seed, suitable for the premium export market.

### fuego

SPRING BEAN

**Fuego** – A very popular spring bean variety with a yield of 97%. It is highly regarded by growers for its large seed size and colour. Medium straw length and very good standing ability as well as early maturity. It has a resistance to downy mildew of 5..



## LYNX SPRING BEAN

BEANS

## Don't let disease sneak up on your yields

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- Very high seed yields on the PGRO DL
- Equal highest resistance to Downy mildew
- Consistent performance over many seasons



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- ▲ PROTECTS YIELD

Based on 27 spring barley trials in 2020

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Syngenta recommends co-application of VIBRANCE Duo with a loose smut active partner.

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VIBRANCE® Duo, ROOTING POWER™ and the SYNGENTA logo are Trademarks of a Syngenta Group Company. VIBRANCE® Duo (MAPP 17838) contains fludioxonil and sedaxane. Use plant protection products safely. Always read the label and product information before use. For further product information including warning phrases and symbols refer to www.syngenta.co.uk December 2020. 11245

## SEED DRESSINGS FOR SPRING 2021

**Vibrance Duo** – Vibrance Duo is now approved for spring barley for spring 2021 when co-applied with Rancona i-Mix. Many growers have seen the benefits of this dressing on winter cereals over the last couple of seasons. It is worth considering on land with difficult seed beds as well as fields where grass has recently been in the rotation after the loss of Austral Plus for wireworm control. It is an ideal dressing to boost early root growth, which combined with its excellent disease control, helps drive the crop to reach its full yield potential.



Spring barley, spring wheat and spring oats. Vibrance Duo is a fungicide SDHI-based (succinate dehydrogenase inhibitors) seed treatment to aid plant establishment and rooting. Vibrance Duo offers an opportunity to give crops a vibrant start from outstanding control of key diseases, enabling rapid crop establishment with the added reassurance of improved rooting.

### Benefits include:

- Improved scavenging for soil moisture
- Improved uptake of nutrients
- Better resilience – to stress, pests and diseases
- Controls a broad spectrum of diseases that threaten crop establishment including Fusarium, microdochium, bunt, loose smut and rhizoctonia
- Faster emergence
- SDHI sprays can still be applied – sedaxane forms a protective zone around the seed, root and stem base
- Low dust-off
- Compatible to be co-applied with Latitude

For further information, please visit the Syngenta website:  
[www.syngenta.co.uk/vibrance-duo](http://www.syngenta.co.uk/vibrance-duo)



**Redigo Pro** – Spring wheat, spring oats and barley, rye and triticale.

Active substances: Prothiconazole and tebuconazole. Its two advanced actives work together by acting inside the germinating seedlings.

#### **Broad –spectrum control:**

- Septoria – seedling blight and stem base browning : improves the health of stem base by reducing symptoms caused by *Microdochium nivale* and *Fusarium SPP*
- Loose smut in winter & spring barley
- Seed-and soil-borne bunt
- Blue mould
- Ergot: reduces germination of treated ergot particles
- Leaf stripe – partial control of *Pyrenophora Graminea* in winter and spring barley (not crops grown for multiplication)

For more information on Redigo Pro, please see [www.bayercropscience.co.uk](http://www.bayercropscience.co.uk)



**Rancona i-Mix** – spring barley, wheat and oats. Rancona i-Mix a single purpose dressing which contains imazalil, an active ingredient known for its premium control of leaf stripe. This is combined with ipconazole, which offers effective control of *microdochium nivale*, as well as loose smut. It also includes the suppression of ergot germination.



## NUTRITIONAL SEED DRESSINGS

### FEEDING CROPS FOR PERFORMANCE

After one of the wettest autumns on record in 2019, we were all hoping 2020 would bring a kinder one. Whilst we have not had as much rain as autumn 2019, it is fair to say that autumn 2020 hasn't been without its challenges. A wet harvest followed by a catchy drilling period and a very wet December, many areas of land have not had chance to dry out as much as hoped. On the heavier land, there are fields still undrilled which were destined for a winter crop, and many of those which have been drilled are now extremely wet with a lot of drying needed before the drills get rolling this spring.

After a difficult couple of drilling seasons, soil condition is increasingly important when considering nutrition programs and seed dressing options for spring crops. Residual soil nitrogen and other key nutrients are likely to be lower than average after two wet winters where considerable nutrient leaching will be common in many soils. Getting a soil analysis done pre-drilling is a good foundation on which to plan your crops requirements for the season ahead.

Seed dressings are an important tool to aid crop establishment and reduce early season nutrient deficiencies, especially where seedbeds are challenging.

#### **Where do nutritional seed dressings help?**

- Where soil or leaf analysis has shown deficiency
- High soil pH
- Soils with high organic matter/receive regular manure applications
- Sandy soils
- Cold/Wet soils

#### **Early season nutrient roles within plants**

- Phosphate - Key for root and shoot development.
- Manganese- Essential for chlorophyll synthesis and lignin production.
- Copper – Lignin synthesis and plant respiration.
- Zinc – responsible for the utilisation of auxins which regulate plant growth and helps with disease tolerance.





**Kick Off** – suitable for all cereals, pulses, oilseed rape and maize.

*Kick Off Seed Treatment Analysis*

- 180g/l – Phosphate/Phosphite
- 80g/l – Manganese
- 16g/l – Zinc
- 20g/l – Nitrogen
- 40g/l – Potassium

Kick Off is a phosphate/phosphite based seed treatment which promotes both root and shoot development to aid plant emergence and establishment. Kick Off is suitable for all soil types and is particularly useful where seedbed conditions are challenging.

As well as seedbed conditions, soil pH has a big impact on nutrient availability. For example, the Yorkshire Wolds are renowned for their calcareous, chalky soils and naturally have a high soil pH. Subsequently, nutrients such as phosphate, manganese, copper and zinc are easily locked up from plant available forms, even if soil analysis results show adequate indices.

Applying these nutrients to your seed helps to eliminate early season deficiency, enhance plant emergence and build yield potential.



**Manganese Trio** – suitable for all cereals, pulses, oilseed rape and maize.

Treating seed with Manganese is the most effective way to eliminate cereals from early season deficiency to aid plant emergence and crop establishment. A very useful dressing, particularly on lighter and/or soils naturally high in PH where deficiency is common..

*Manganese Trio Seed Treatment Analysis*

- 10% Soluble Manganese (Mn)
- 16.3% Sulphur Trioxide
- 1.0% Copper (Cu)
- 0.5% Zinc (Zn)



**Zest** – a new phosphite based seed treatment for spring beans in 2021. Similar to Kick Off in cereals, it is a phosphite based dressing to aid early rooting. This product contains phosphite plus potassium, sulphur, manganese, zinc, amino acids and molybdenum – an important nutrient for successful pollination.

**Please do not hesitate in contacting James Mortimer Ltd to arrange a visit to your farm to discuss individual requirements / objectives. Using the best seed treatment available is a sound investment, especially on varieties with specific weaknesses.**



# OTHER MIXTURES

## We now sell an even wider range of:

- Soil improvement mixes
- Greening / catch and cover crop mixes
- Root and fodder seed
- Grass seed mixtures
- Game cover mixtures
- Wildflower mixtures

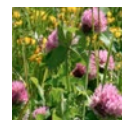
## ENVIRONMENTAL AND GAME COVER MIXTURES

As we enter the BPS '7- year transition phase out period' with payments to be cut between 5-25% in 2021, the government have made it clear that future payment schemes will be more environmentally focused.

The new 'Countryside Stewardship Offers' and 'Environmental Land Management Schemes' (ELMs) are becoming more popular on farms, as businesses prepare for future changes. The new schemes offer a range of options for growers to choose from, so that entering into the new environmental offers can complement existing enterprises within businesses.



## ENVIRONMENTAL MIXES



**Bumblebird Mixes:** Designed to benefit insects during summer months and wild birds in autumn. Autumn sown.



**Wild Bird Mixes:** Mixes specifically designed to provide various food sources for seed-eating birds throughout the year. Spring sown.



**Pollen and Nectar Mixes:** Designed to benefit butterflies and bees. Spring sown.



**Wild Flower Meadow Mixes:** Mixtures of native flower and grass species to help re-instate the decline in native plant populations and meadows. Provides excellent pollen and nectar sources for birds, butterflies and mammals. Spring sown.

## COVER CROP SPECIES



**Rye:** Good weed suppressant. Excellent nitrogen lifter and holds nitrogen in the soil for subsequent crops. Improves soil structure. It provides good green manure either on its own or with other components such as vetch, mustard and phacelia.



**Oats:** Provides quick ground cover and is an excellent weed suppressant. Mycorrhizal roots and alleopathic compounds help break disease cycles in soil. Improves soil structure and suppresses nematodes.



**Vetch:** Excellent nitrogen fixer and improves soil structure. Ideal companion in mixes with rye and oats. Best results when drilled early.



**Oil/Fodder Radish:** Excellent green manure. Deep roots improve soil structure and break through compaction to improve drainage. Suppresses nematodes. Can be used in game cover.



**Stubble Turnips:** Good soil conditioner – lifts and holds nitrogen for following crops. Good feed source for livestock.



**Brown Mustard:** Good green manure crop that lifts and holds nitrogen for following crops. Improves soil structure and increases organic matter. More winter hardy than yellow mustard and used for its biofumigant activity on weeds and pests – particularly nematodes.

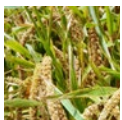


**Linseed:** Produces deep roots to improve soil structure and organic matter. Attracts pollinators and beneficials. Often used in gamecover for its excellent seed shedding. Its open canopy is ideal for partridges.

## GAME COVER SPECIES



**All Seasons Maize:** Blend of 3 maize varieties to provide cover throughout the season. Winter hardy and good standing power. Drill when soil temperatures are above 10°C into non-compacted seedbeds.



**Millet:** provides an excellent feed source to keep game interested in cover. Often used in blocks as flushing points. White and Red millet are often used as a blend to spread shed of seed due to difference in maturity dates. Millet is a good partner to both maize and sorghum in covers.



**Sorghum:** Provides warmth to covers to help hold birds. Very effective when sown adjacent to maize strips – excellent flushing points. Can make excellent controlled driving cover. Soil temperatures need to be above 14°C before sowing.



**Quinoa:** Provides warm cover throughout the season. Large seed shed, high in protein – particularly later in the season. Often sown with Kale to give a good 2-year cover.



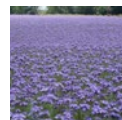
**Sunflower:** Used as part of a mix or on its own to provide a plentiful seed source in autumn. Good standing power and attracts beneficials when flowering. Sow when soil temperatures have reached at least 10°C.



**Mustard:** An excellent source of early season cover – usually used as part of a mix. Wide drilling window from spring through to late September. Mustard makes a good autumn 'Rescue Mix' when sown with other species such as fodder radish, stubble turnips and forage rape. Not very winter hardy (Brown Mustard will maintain cover until February).



**Kale:** Very winter hardy and will provide cover for 2 years. Gives warmth to covers in exposed sites. Excellent feed source for livestock. Several varieties available.



**Phacelia:** Fast growing and excellent provider of pollen and nectar for beneficials. Used as part of an overall game cover mix. Good catch/cover crop due to weed suppression and ability to lift and hold nitrogen in the soil. Phacelia will readily re-seed itself.

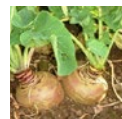


**Chicory:** is a perennial crop that provides excellent cover from year 2 onwards. Best used as part of a longer term mix. Its deep roots help to improve soil structure and is very drought tolerant. Don't sow on wet ground.

## OTHER FEED AND GRASS MIXTURES:



**Fodder Beet:** Fantastic feed source for livestock throughout autumn and winter. Winter hardy. Several varieties available.



**Swede:** Extremely palatable, high energy winter feed source. Suitable for a wide range of soils. Several varieties available.



**Stubble Turnip:** Fast growing excellent autumn/winter feed source. Several varieties available.



**Grass and Herbal Ley Mixtures:** Various mixes available depending on use.

Please enquire for details of all mixes.



# FERTILISERS

To support your growing crops we sell a full range of fertilisers including:

- Nitrogen and Compounds
- Urea Blends
- NPK Blends
- Straights Liquids



## USEFUL CONTACTS

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