



ESTD 1879

T DENNE & SONS



**FIRST
CROP
SEEDS**

COMBINABLE SEEDS
& GRASS SEEDS
2022

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T DENNE & SONS

**FIRST
CROP
SEEDS**

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TASSC – YY2230

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Trading

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Forward

What a year!

- *Weather affects on 2021 harvest quality and yield*
- *Improving commodity values in late 2021*
- *Driest first 4 months of the year since 1990*
- *Massive further increases in commodity values throughout 2022*
- *Significant input cost inflation*

All the above bring a mixture of opportunity and uncertainty in the short and long term. Decisions around 2023 harvest will need careful consideration with inevitably higher costs affecting profitability and demands on working capital. In addition, it will be vital to carefully manage marketing strategies to minimise risks in volatile markets.

Because of this, the need to select the right variety for the right market becomes ever more critical and further adapting rotations for sustainability remains key. You will see in the following pages our recommendations for all combinable crops which we believe offer the optimum balance of technical credibility, marketability, and risk management.

We remain committed to contracting seed production of all species and would be keen to discuss any options you're considering, be that cereals, pulses, oilseeds, forage brassicas, wildflowers, or grass seeds.

Finally, we look forward to seeing you at our Wheat Variety Trials on 24th June at High Chimney Farms, Stelling Minnis, Canterbury. As usual, in cooperation with Zantra we will be demonstrating established and upcoming varieties with a range of fungicide programmes. This will be followed up by our trial results meeting in December

Fred Denne
May 2022

QUALITY STILL STACKS UP



CRUSOE

10 years Recommended
and still going strong



Highest protein content of any
Recommended Group 1 Winter Wheat



Best combination of Yellow Rust and
Septoria tritici resistance in the sector



Fully Approved as a **ukp**
bread wheat for export



Highest yielding Group 1 variety in 2019



CRUSOE

Reduce your risk and grow Crusoe as your Group 1 of choice

@LGSeedsUK



lgseeds.co.uk/crusoe

Tel: 01472 371471
lgseeds.co.uk enquiries@limagrain.co.uk

Limagrain

Milling Wheats

We have put all milling wheats under a single group. Despite varieties being designated either as Group 1 or Group 2, suitability to different end users and the premiums they pay is increasingly variable. By not restricting your marketing options to a single group, growing a range of these types will grant you wider access to genetic selection, in turn reducing the risk of disease pressure.

KWS Zyatt: (Group 1) Widely grown regionally with consistent milling performance and acceptance by end users. Yellow rust management needs special attention, with T0 emphasis on control a key part of the strategy. September drilling will help to reduce pressure. Performs well on more fertile sites but also second wheat situations.

Skyfall: (Group 1) The only Group 1 variety with OWBM resistance, Skyfall continues to take significant market share. Its ability to perform across a range of soil types, especially on lighter land makes it very flexible, as well as giving good second wheat results. Early maturity and ability to plant until the end of February adds to the picture. Despite a low yellow rust resistance score, development of the disease appears relatively slow meaning a well-timed, robust fungicide programme is adequate.

Crusoe: (Group 1) This remains the millers favourite with consistent quality and reliable nitrogen conversion. Despite a weakness to brown rust, Crusoe has maintained good resistance to other major foliar disease. Later to mature than Skyfall and Zyatt, it also retains quality more readily if harvest is delayed.

KWS Extase: (Group 2) This variety has achieved a large market share regionally and nationally. Despite a high resistance rating for *Septoria tritici*, Extase like many other varieties suffered significant pressure from that disease in 2021 and has seen a reduced score from AHDB. Our trials over three years suggest a full *Septoria* programme (especially T0) will show yield significant benefits. Taking this approach will also help to maintain the integrity of the plant's genetic resistance. Extase should not be drilled until October. Whilst vigorous in the autumn it can shed tillers in the spring so slightly higher seed rates are advised. Good grain quality and miller appeal are now well established characteristics.

Mayflower: (Group 2) This French bred variety was recommended last autumn following good field performance in trial and another year of positive feedback from end users. All aspects of grain quality are good, readily meeting milling specification. It is a cross of French lines as yet not seen in UK, giving genetic diversity to other mainstream milling varieties available. Disease ratings are robust, but again should not be seen as a “low input” variety as responses to inputs and protecting genetic plant resistance must not be ignored. Mayflower appears to convert nitrogen to protein very efficiently, with current trials expected to confirm this.

Group 3 Wheats

This sector has seen gradual decline in recent years with concerns over market premiums, genetics and yield differences to varieties in other groups. However, there remains regionally good market opportunities for soft biscuit wheats, especially on lower fertility sites, and with a lower nitrogen requirement to reach milling quality.

RGT Rashid: A new entrant to the recommended list, short stiff straw and solid disease ratings (except Mildew 4), Rashid has shown consistent milling performance with UK flour millers. It performs well as a second wheat and across a range of soil types. Can be sown later in autumn and until mid February. OWBM resistant.

KWS Basset: Remains a firm favourite of Group 3 growers, with consistent performance on farm and for the end user. One to stick with!

KWS Brium: Another newly recommended variety with good all-round disease ratings. Grain quality is good with specific weight of 77.3 kgs/hl. It has performed well across a range of soil types and drilling dates.

Group 4 Wheats

Regionally we grow a relatively modest proportion of Group 4 types, having stuck mainly with milling varieties. However, as market dynamics change, proximity to UK mills, cost of haulage and nitrogen values all impacting on profitability, growers should be considering other market options and range of varieties. Opportunities are there for local and export outlets of good quality hard or soft endosperm grain.

**WE COULD HAVE DIVERTED
OUR EFFORTS INTO
PRODUCING AN ADVERT
SHOWING AN ENDLESS SEA
OF WHEAT, SET AGAINST
A BEAUTIFUL
GOLDEN
SUNRISE.**

**THEN WE REMEMBERED, IT'S NOT
GOING TO HELP YOU WHEN SEPTORIA,
BYDV, YELLOW RUST OR OWM
RIPS THROUGH YOUR CROPS.**



RGT RASHID

G3 WINTER WHEAT

**INTELLIGENT SEED BREEDING FOR
FORWARD THINKING FARMERS.**

RAGTSEEDS.CO.UK

Now that's a **special combination!**



KWS DAWSUM

- Exceptional specific weight (79.4 kg/hl)
- Very high yield potential across all regions of the UK
- Super flexible on farm with a wide sowing window



www.kws-uk.com

SEEDING
THE FUTURE
SINCE 1856



RGT Bairstow: Newly recommended soft endosperm type as highest yielding soft Group 4 on the list. It has a robust disease profile and is OWBM resistant. Grain quality is well in excess of feed market requirements, and performs well across all drilling dates and rotational positions. It is a relatively tall variety and responds well to a robust PGR programme. It can be sown early in the planting schedule.

KWS Dawsum: Newly recommended hard endosperm variety with excellent grain characteristics, especially with 79.4kg/ha specific weight. It has short stiff straw and has average maturity. Disease ratings are robust across the spectrum. It can be sown after mid September across a range of soil types and as a second cereal.

Costello: This hard endosperm variety is now a well established favourite in the sector, with very stiff and short straw, excellent grain quality and solid disease ratings. It is a good second wheat but should be planted from late September.

Late Season Wheat Planting

In recent years, with the need in some situations to delay drilling to help alleviate grass weed and BYDV pressure, growers have been looking for varieties that suit the later drilled slot in the autumn, but also the opportunity to plant through to March or even April. Skyfall, by example has given such opportunities, drilling up to end of February. However, we have a newly recommended variety Nissaba, from Blackman Agriculture, that can be sown from late October until late March. Though recommended as a Spring Wheat, it is more like the “alternative wheats” that were grown previously.

Nissaba has good milling credentials as a Group 1, sound agronomics, and has OWBM resistance. The flexibility of a wide drilling window means growers can be confident that an establishment window will be available at some time between October and April. There are limited stocks of certified seed available this autumn/spring.



NISSABA

GODDESS *of* GRAIN

A WHEAT FOR ALL SEASONS

Recommended by AHDB as a Spring Wheat (AHDB 22-23). Nissaba has no vernalisation requirement and can be sown in the Spring like any other Spring Wheat. When sown in the Autumn, anytime from October onwards it remains Winter dormant until the Spring Equinox.

- Competitive to winter Group 1's from October onwards planting
- Wide drilling window - October to April
- UKFM Group 1
- OWBM resistant
- Not prone to Yellow Rust races attacking current Winter UKFM Group 1 (Zyatt & Skyfall)
- High protein content enhancing opportunity of full Group 1 specification
- Excellent baking performance at a wide range of protein contents
- High seedling vigour and rapid emergence



Winter Barley

Areas of winter barley have increased of late, partly down to increased yield and agronomics, values relative to wheat and a move towards earlier OSR plantings.

Two row conventional varieties have gained ground in terms of yield compared to Hybrids, but Hybrids still have an advantage in grass weed suppression.

Two Rows: **KWS Tardis, Bolton** and **KWS Hawking** all show similar quality, disease and agronomic characteristics with KWS Hawking being very slightly later to mature. All varieties are BYMV resistant.

Six Rows: Hybrids dominate this area, with **SY Kingsbarn** and **SY Canyon** strong contenders. SY Canyon is slightly taller and with a higher untreated yield and specific weight. **KWS Ferris** is a conventionally bred variety with BYDV and BYMV resistance giving it a clear advantage when trying to reduce insecticide use. It has a good specific weight and shows low screenings levels.

Winter Oats

This crop maintains its place in the rotation but at a lower level than before in the face of competition from second wheat and grass weed management. However, experienced growers will know the benefits of oats in the rotation, offering a “white strawed break” as well as relatively modest growing costs.

Prospects for UK oats remain good with what appears a reasonably balanced supply – demand ratio. In addition in this region we still have export opportunities in place.

Mascani remains the firm favourite on farm and with millers, giving consistent performance and quality. So far other winter varieties have not equalled Mascani’s consistency.

INTRODUCING
SY Canyon

HYBRID BARLEY



SUPERIOR GRAIN QUALITY
and disease resistance all in one variety

 **SY Canyon**
Hyvido®

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Email: customer.services@syngenta.com Website: www.syngenta.co.uk

AHDB
RECOMMENDED

®

Oil Seed Rape

The crop saw an increase in plantings last autumn and would have been greater in the south if wheat harvest had not been delayed. With prices firm, and likely to remain in the medium term, growers will be tempted to establish OSR if conditions allow on the right sites within the rotation.

TuYV resistance is now common place within conventional and hybrid varieties, bringing an added management benefit. Clearfields and clubroot resistant varieties, whilst often coming with a yield penalty offer the opportunity to grow the crop on areas that would otherwise be out of the question.

Hybrid types tend to show more resilience against flea beetle larvae attack and have shown good consistency more recently. Conventional types appear more favoured in situations where establishment is more challenging, with higher seed rates/meter and lower seed cost/ha help reduce risk.

Hybrids:

LG Ambassador: A well proven variety with TuYV resistance and good disease ratings. Above average oil content, good autumn vigour and pod shatter resistance.

Fleming: Newly recommended variety with good oil contents and spring vigour. Fleming has above average TSW and 8 score for stem canker. Good all rounder with TuYV resistance and later to mature than average helping spread harvest pressures.

Tennyson: A short stiff strawed hybrid variety with mid range maturity, good LLS resistance and excellent stem canker scores. TuYV resistant. Tennyson seed is supplied as “primed”, having been exposed to a specialist process to promote rapid and consistent germination and emergence after establishment, especially when in drier conditions. This is a process used successfully in the salad and vegetable seeds industry to maximise potential of these high value crops.

Croozier: This variety has performed well compared to other clubroot resistant types, with good disease score (8 Canker) and good straw characteristics. It has mid range maturity.

RESISTANCE IS IN THE GENES

- High seed yield combined with high oil content
- RlmS gene provides excellent Phoma resistance
- Good stem stiffness and resistance to lodging
- Featuring TuYV resistance



DK Impresario CL: Consistent performer in the Clearfield class with good agronomics and oil content. Good spring vigour showing good resilience against larvae attack.

Dart: A new entrant to the recommended list. Dart has TuYV resistance, very good straw characteristics at flowering and maturity. It is mid/late to mature with solid disease ratings and high oil content.

Conventionals:

LG Aspire: This variety has become popular with growers due to consistent performance, good vigour autumn and spring and good agronomics. Phoma control needs attention, but response to fungicide programmes have been reliable. TuYV resistant.

Aardvark: Solid performer with reliable disease scores. It has mid range maturity, very stiff and short straw suiting higher fertility sites. Oil contents are average and has TuYV resistance.

Campus: An old favourite with consistent performance, this no frills variety maintains high market share due to establishment vigour, good agronomics and good oil yields. Favoured in situations where establishment conditions may be marginal.

Keeper: Very vigorous in the autumn, Keeper has high TSW and oil contents. Two 7 scores for disease and very stiff straw. Solid and reliable.

High Erucic Acid Rape (HEAR)

This concept continues to maintain firm demand for seed from specific high erucic acid bearing varieties. The crushed oil is used in specialist industrial applications (paints/solvents etc) that are distinct from the mainstream “00” market.

We can offer contracts with various pricing options on a multiple year basis to give growers long term confidence in the HEAR market.

Please contact Andrew Bourne for more details.



VESPA

Winter Bean

The Winter Bean creating a real buzz!

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

Winter beans – the perfect fit

Yield benefit for the following wheat crop

Low growing cost

Good break crop gross margin

Good opportunity to control grass weeds

Ready markets for feed and export use

Other Senova winter bean varieties:



Winter Beans

The area of winter beans has remained firm with the crop now accounting for a third of UK bean area. Quality of varieties offers opportunity for human consumption premiums as well as feed outlets.

Vespa: This variety is set to take largest market share in 2022, with improved yield and agronomics over competitors. Slightly earlier than other varieties.

Tundra: This variety has been the dominant winter bean for the last 4 years and remains a firm favourite on many farms. Performance on lighter land sites has been notable.

Mobile Seed Cleaner

MOBILE SEED CLEANER

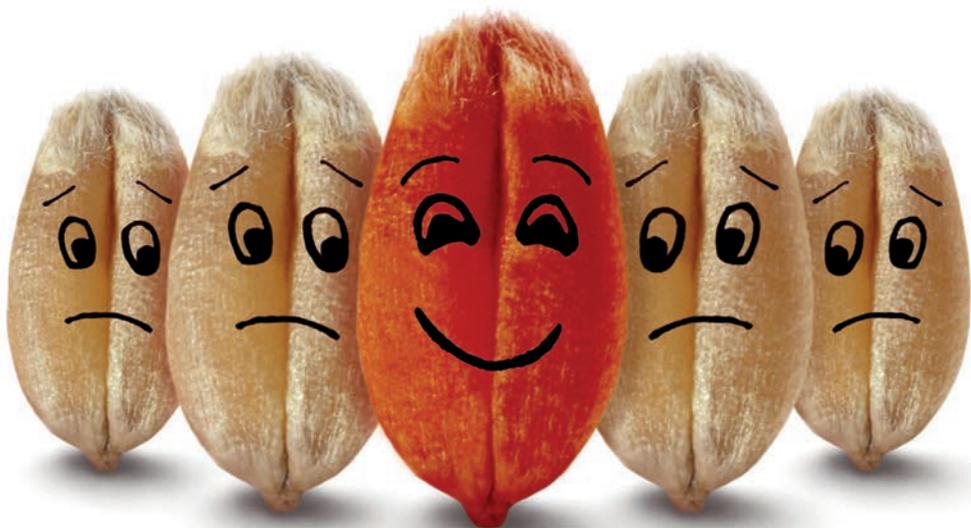


Key Features of our Mobile Seed Cleaner include:

-  GS 12 Gravity Separator
-  High capacity pre cleaner and de-awner
-  Four pump continuous flow treater
-  Roller conveyor system to improve bag handling flexibility
-  Full range of seed treatments available



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- Controls wheat bulb fly, wireworm and frit fly
- Low dust formulation
- Compatible with a range of fungicide seed treatments

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MAYFLOWER
Winter Wheat

**New for
this autumn.**

**A bread
wheat
bred for
sustainability.**

Mayflower has been bred to deliver whilst offering the viable sustainability credentials the sector needs.

It offers an all-round agronomic package that when compared to established varieties, clearly has a lower impact on the environment and a higher impact on the bottom line.

**Speak to your seed specialist today
about availability.**

Elsoms 
The Seed Specialists

elsoms.com   

Seed Treatments

The industry has seen the loss of several seed treatment products of late, with more familiar names due to disappear in the short to medium term.

Many of these treatments have been crucial in aiding establishment and reducing primary pests at the early stages. Managing aphid attack, slug pressure, wireworm and wheat bulb fly populations and seed / soil borne disease on oilseeds and pulses will all be affected.

When considering how this will impact at farm level, making sure seedlings have every chance to thrive is key:

- Reducing seed borne disease risk;
- Managing soil borne pathogens that affect seedling development;
- Use of root stimulants to speed up establishment;
- Trace element formulations;
- Aiding later drilling date situations.

Designed to control a wide range of seed borne diseases that can be tested for, and equally importantly soil borne diseases that are inherently present and impact more in poorer conditions.

Beret Gold: (25 g/l Fludioxonil) A popular choice with a wide range of activity on all diseases, being particularly effective on wheat and oats.

Rancona iMix: (20g/l Ipconazole + 50g/l Imazalil) For use on both wheat and barley, Rancona iMix covers all major pathogens including leaf stripe in barley.

Vibrance Duo: (25 g/l Fludioxonil + 26g/l Sedaxane) Can be applied to winter wheat, spring oats, triticale and rye. A co-formulation incorporating fludioxinil (Beret Gold) and Sedaxane (SDHI improves root development and mass, specially beneficial when later sown).

Latitude: (Silthiofam 125g/l) A specialist fungicide seed treatment for use on barley and wheat. Latitude is the only seed treatment available for take-all control and has proved successful. It is applied with a single purpose dressing or Vibrance Duo. Although an expensive product it is very effective. Growers with second and third cereals in their rotation should consider a Latitude seed dressing.

Signal FS: (300g/l Cypermethrin) The pressure of wireworm is consistently high after grass leys and now in areas suffering from grass weeds. Seed treatment is the only protection on offer and Signal FS has shown good levels of control for wireworm, even within high populations and wheat bulb fly.

Sunnagreen: A combination of amino acids (2-aminobenzoic acid 2-hydroxybenzoic acid) increases synthesis of proteins to speed root and shoot development. Experience to date has shown impressive response in terms of establishment and final yield.

Manganese Trio: A formulation of manganese with inclusions of zinc and copper to enhance root development at establishment.

Grass Seed Production and Processing

With the UK becoming the focal point of European grass production, in 2019 we began an 18 month, £750,000 project to increase our processing capacity. This involved demolishing old, out of date grain stores and the building of a new purpose-built grass processing plant. Completed in Autumn 2020 we are now able to process up to 3,000 tonnes of grass seed annually.



To help us meet the demands of the breeders we are looking for new growers of grass seed. There are both

financial and agronomic benefits of incorporating grass seed production in an arable rotation and we would be happy to discuss this further with you.

We view grass seed production as a partnership with the grower and as such we provide a free fieldsman service to offer some practical advice throughout the growing period and at harvest. In addition, we can draw down on our contacts who have specialist machinery offering contracting services.

Whether we take your seed to process in July immediately following harvest, or in March the following year we spread payments over three instalments which aid cash flow. We can also offer single-year or two-year variety contracts to help fit in with your planned rotation, as well as non agricultural types with no grass forage element to the crop.

Should you wish to grow grass seed, you will need.

1. Access to a stripper header is beneficial;
2. A drying floor;
3. Storage ability;
(third party storage available)
4. Manageable levels of injurious grass weeds.

We would be happy to talk you through the financials and merits in person as well as provide you with a tour of our new processing plant. Please call the office on 01233 720 871 to discuss further.



T DENNE
& SONS

**FIRST
CROP
SEEDS**

GRASS SEED CATALOGUE





INTRODUCTION

Our grass seed catalogue offers you the opportunity to view our entire range of mixtures as well as understand the concept behind their design.

The philosophy has been to select varieties offering good quality and strong performance and combine these with our experience, and that of our customers, to produce a range of simple yet effective mixtures to suit a wide range of situations.

Our principles in the design of these mixtures have been:

- Select varieties with proven performance
- Design mixtures with a specific goal in mind
- Blend varieties and species to give ease of future management
- Use in-field experiences to improve performance
- Listen to the requirements of our customers in order to refine mixture design.

We have arranged this brochure in an easy-to-follow layout, starting with the cutting mixtures and moving towards grazing and amenity. Added to this is the mixtures selection guide located on page 34-35 which gives a shortcut solution to finding the mixture for you.

In addition to the published mixtures we also offer an entirely bespoke mixing service. This allows us to vary an existing ley to suit individual customers' requirements, or start from scratch and design an entirely unique mixture to suit your needs, whether this be conventional or organic.

KEY

Tetraploid	(T)
Diploid	(D)
Small Leaved	(SL)
Medium Leaved	(ML)
Large Leaved	(LL)



CUTTING MIXTURES

The **Supercut Mixtures** are a range of high-quality high-yielding grass leys designed to maximise the potential for grass silage.

Where possible we have incorporated the festulolium species into the mixtures as the different varieties bring significant improvements in terms of yield, quality, and persistence. In addition, we have found these species to be particularly useful on stress-prone sites and in arable rotations as they have fewer herbicide resistance issues than Italian Ryegrasses.

Supercut

Designed as a 1-2 year ley which provides a high yield of good quality grass silage.

- Will respond to high fertiliser input
- High output
- Excellent regrowth after cutting
- Hybrid will improve 2nd year performance over Italian only mixtures.

Supercut Plus

A 2-3 year ley designed as a high output cutting ley.

- Selection of hybrids and festuloliums to enhance persistence and yield
- Will respond to high fertiliser input
- High quality forage
- Excellent re-growth after cutting.

Supercut (1-2 years)

34%	Italian Ryegrass	(D)
34%	Italian Ryegrass	(T)
32%	Hybrid Ryegrass	(T)

Recommended sowing rate 14-16 kg/acre

Supercut Plus (2-3 years)

17%	Italian Type Festulolium	
18%	Italian Type Festulolium	
18%	Italian Ryegrass	(D)
17%	Italian Ryegrass	(T)
30%	Hybrid Ryegrass	(T)

Recommended sowing rate 14-16 kg/acre





CUTTING MIXTURES

Supercut Extra

A purely festulolium 2-3-year ley. Designed as a highly productive, high quality ley even on less favourable sites. This mixture will give consistent performance in variable conditions too.

- 100% festulolium - good quality and high yield
- More persistent than Italian ryegrasses
- Less risk of herbicide resistant grass species in arable rotations
- Will cope on more stress/drought prone sites.

Supercut Extra (2-3 years)

- 25% Italian Type Festulolium
- 25% Italian Type Festulolium
- 50% Hybrid Type Festulolim

Recommended sowing rate 14-16 kg/acre

Supercut Long

Supercut Long is a 3-4 year cutting ley.

- Hybrids/ festuloliums selected for yield, quality and longevity
- High quality and yielding tetraploid perennial inclusion
- Good response to nitrogen
- Suitable for multiple cuts through the season
- Can be used as an overseeding mixture at a lower rate.

Supercut Long (3-4 years)

- 40% Hybrid Ryegrass
- 40% Hybrid Type Festulolim
- 20% Intermed. Perennial Ryegrass (T)

Recommended sowing rate 14-16 kg/acre





CUTTING MIXTURES

Supercut Plus Protein

A 1-2 year cutting ley containing a high protein content from both quality grasses and red clover.

- High-yielding grasses that offer good silage quality
- Contains festulolium species to cope with more stress-prone sites
- Early/medium flowering red clover ensures that the grass species are not outcompeted in year 2.

Supercut Plus Protein (1-2 years)

- 25% Italian Type Festulolium
- 40% Hybrid Ryegrass
- 15% Italian Ryegrass (T)
- 20% Red Clover

Recommended sowing rate 14-16 kg/acre

Supercut Italian

A 2 year high-yielding ley, with rapid establishment for early use. Large first cut potential.

- Can be sown spring or autumn
- Red clover can be added for extra protein.

Supercut Plus Italian (1-2 years)

- 50% Italian Ryegrass (T)
- 50% Italian Ryegrass

Recommended sowing rate 14-16 kg/acre

Westerwold Ryegrass

A short term grass used to produce large amounts of forage. Very vigorous and fast to establish.

Westerwold Ryegrass (1-2 years)

- 100% Westerwold Ryegrass

Recommended sowing rate 14-16 kg/acre



CUTTING MIXTURES

Haylage

A medium-term mixture to produce good yields of quality grass, specifically designed for the professional haylage producer.

- Good response to Nitrogen
- Suitable for multiple cuts through the season
- Can be used as an overseeding mixture at 9kg/acre.

Haylage (2-3 years)

25% Hybrid Ryegrass (T)
38% Intermed. Perennial Ryegrass (D)
37% Late Perennial Ryegrass (D)

Recommended sowing rate 14 kg/acre

Haylage Extra

Haylage Extra is designed as a top quality 3-4 year haylage ley to maximise top-end quality for equine use.

- Use of 4 tetraploids ensures an even wilt which is key to producing top quality haylage
- Will produce high yields and quality from varieties used
- Specifically designed for professional haylage makers.

Haylage Extra (3-4 years)

25% Intermed. Perennial Ryegrass (T)
25% Intermed. Perennial Ryegrass (T)
25% Late Perennial Ryegrass (T)
25% Late Perennial Ryegrass (T)

Recommended sowing rate 14-16 kg/acre



CUTTING MIXTURES

Haymaker

A traditional general purpose ley producing good quality hay that is not too fine or too coarse. Produces good yields and will “make” easily due to the types of grasses included. It is also suited to over winter grazing.

Haymaker (3-5 years)

- 15% Early Perennial Ryegrass (D)
- 15% Timothy
- 35% Intermed. Perennial Ryegrass (D)
- 35% Late Perennial Ryegrass (D)

Recommended sowing rate 14 kg/acre

Haymaker Pro

Haymaker Pro is designed to produce top quality soft hay which is targeted at the equine and small pet market.

- It will also thrive on more stress-prone sites with the inclusion of meadow fescue
- Can also be used for over winter grazing.

Haymaker Pro (3-5 years)

- 30% Meadow Fescue
- 20% Timothy
- 25% Intermed. Perennial Ryegrass (D)
- 25% Late Perennial Ryegrass (D)

Recommended sowing rate 14 kg/acre





GRAZING & DUAL PURPOSE MIXTURES

In addition to our **Grazer** ley mixture we have a selection of **Dual Purpose Mixtures** to fit a range of scenarios. We have focused on combining cutting yields and quality, with grazing quality.

Grazer

Specifically designed for grazing-based systems usually for a 5 year period.

- Can support grazing-based dairy systems
- Contains specific varieties that offer high levels of highly digestible grass
- Good conversion levels for milk and meat production
- Suitable for cattle and sheep.

Cut & Graze

Cut & Graze is designed as a medium-term (3-5 year) dual purpose cutting and grazing ley.

- Produces good-yielding silage
- Can take multiple cuts
- Contains good grazing quality perennials and hybrids
- Suited for grazing sheep and cattle
- A 'no clover' option is also available.

Grazer (5+ years)

10%	Early Perennial Ryegrass	(D)
15%	Late Perennial Ryegrass	(T)
15%	Late Perennial Ryegrass	(D)
20%	Intermed. Perennial Ryegrass	(D)
15%	Intermed. Perennial Ryegrass	(D)
20%	Late Perennial Ryegrass	(T)
5%	White Clover Blend	

Recommended sowing rate 14 kg/acre

Cut & Graze (3-5 years)

30%	Intermed. Perennial Ryegrass	(T)
30%	Intermed. Perennial Ryegrass	(T)
21%	Late Perennial Ryegrass	(D)
15%	Hybrid Ryegrass	(T)
4%	White Clover Blend	

Recommended sowing rate 13.5 kg/acre





GRAZING & DUAL PURPOSE MIXTURES

Fleximix

Fleximix is similar to the Cut and Graze ley (3-5 year), however, it is designed more for cutting with the addition of the festulolium and late tetraploid perennial. This will improve both the quality and yield of the cuts taken, whilst maintaining good aftermath grazing.

- High quality silage
- Can take multiple cuts
- Contains good grazing quality perennials and hybrids
- Suitable for sheep and cattle
- Can cope with more stress-prone sites
- A 'no clover' option is also available.

Fleximix (3-5 years)

30%	Hybrid Ryegrass	(T)
20%	Hybrid Type Festulolium	
10%	Intermed. Perennial Ryegrass	(D)
10%	Intermed. Perennial Ryegrass	(T)
10%	Late Perennial Ryegrass	(D)
10%	Late Perennial Ryegrass	(T)
5%	Hybrid Ryegrass	(T)
5%	White Clover Blend	

Recommended sowing rate 14 kg/acre

Permanent Pasture

Designed as a long-term, permanent ley with a bias more toward grazing, yet offering a modest silage/ haylage (coarse) or even hay cut.

- Hard wearing and long term
- Can be grazed all year
- Can be grazed "down tight" by sheep
- Varieties offer good grazing quality for cattle and sheep
- A 'no clover' option is also available.

Permanent Pasture (5+ years)

16%	Intermed. Perennial Ryegrass	(T)
16%	Intermed. Perennial Ryegrass	(D)
16%	Intermed. Perennial Ryegrass	(D)
14%	Late Perennial Ryegrass	(T)
11%	Late. Perennial Ryegrass	(D)
10%	Late. Perennial Ryegrass	(D)
10%	Timothy	
7%	White Clover Blend	

Recommended sowing rate 14 kg/acre



SPECIALISED MIXTURES

We offer two grades of pony paddock mixture, the standard **Horse & Pony** and the **Horse & Pony Plus**.

The addition of the smooth stalk meadow grass is for use on more stress-prone sites to ensure that there is grazing all year round. Both mixes are designed specifically for horse and pony grazing and do not contain any high-sugar grasses which can increase the risk of laminitis. If left, a modest hay cut could also be taken.

Horse & Pony

Horse & Pony (5+ years)

- 31% Intermed. Perennial Ryegrass (D)
- 23% Intermed. Perennial Ryegrass (D)
- 23% Late Perennial Ryegrass (D)
- 15% Creeping Red Fescue
- 8% Timothy

Recommended sowing rate 13 kg/acre

Horse & Pony Plus

Horse & Pony Plus (5+ years)

- 18% Intermed. Perennial Ryegrass (D)
- 18% Intermed. Perennial Ryegrass (D)
- 32% Late Perennial Ryegrass (D)
- 10% Timothy
- 15% Creeping Red Fescue
- 7% Smooth Stalked Meadow Grass

Recommended sowing rate 14 kg/acre

Horse & Pony Rye Free

A persistent diverse mixture with the added benefit of lower sugar and protein content. The mix will take longer to establish but is a good alternative to Ryegrass based mixtures.

Horse & Pony Rye Free (5+ years)

- 35% Meadow Fescue
- 30% Strong Creeping Red Fescue
- 15% Timothy
- 7% Smooth Stalk Meadow Grass
- 7% Tall Fescue
- 6% Cocksfoot

Recommended sowing rate 13 kg/acre



SPECIALISED MIXTURES

Equine Gallops Mix

Gallops mixture is an ideal mix for an area which is used for exercising or working your horse. This mix produces a dense, springy sward which enables frequent use of the area with minimal damage.

Equine Gallops Mix (5+ years)

- 65% Amenity Perennial Ryegrass
- 20% Creeping Red Fescue
- 15% Smooth Stalked Meadow Grass

Recommended sowing rate 20 kg/acre

Traditional Meadow (Ryegrass free)

Traditional meadow, is a mixture of more traditional, less aggressive grass species. This mixture has a range of uses from environmental to extensive grazing.

- Predominantly a grazing ley, can be used for a hay cut
- Well suited for extensive grazing, particularly of native cattle breeds
- Will tolerate adverse conditions; low pH, drought, wet etc
- Low fertiliser requirement.

Traditional Meadow (5+ years)

- 40% Meadow Fescue
- 25% Timothy
- 10% Rough Stalk Meadow Grass
- 10% Smooth Stalk Meadow Grass
- 10% Creeping Red Fescue
- 5% Crested Dogtail

Recommended sowing rate 14 kg/acre



MIXTURE



CUTTING



GRAZING



DUAL PURPOSE

Grazer
3 – 5 years

**Perma
Past**
5+ y

Cut & Graze
3 – 5 years

Fleximix
3 – 5 years

Supercut
1 – 2 years

**Supercut
Plus**
2 – 3 years

**Supercut
Extra**
2 – 3 years

Haylage
2 – 3 years

Haymaker
3 – 5 years

**Supercut
Plus Protein**
1 – 2 years

**Supercut
Italian**
1-2 years

**Supercut
Long**
3 – 4 years

**Haylage
Extra**
3 – 4 years

**Haymaker
Pro**
3 – 5 years

E GUIDE



Permanent
culture
years



SPECIALIST MIXTURES

Horse
& Pony
5+ years

Horse &
Pony Plus
5+ years

Horse & Pony
Rye Free
5+ years

Equine
Gallops Mix
5+ years

Traditional
Meadow
5+ years



OVERSEED

Dual
Purpose OS

Grazer OS

Dual Purpose
OS + Clover

Grazer OS
+ Clover



OVERSEEDING GRASSLAND

Overseeding has been used as a way of rejuvenating grassland for many years. When managed properly, overseeding can be an effective way of improving production. However, if done 'on the cheap' while not dealing with the fundamental reasons for reduced production, the benefits can be minimal and short lived.

Grassland will lose productivity for some or all of the following reasons:

- Established grass varieties have reached the end of their productive life
- Increased dominance of weed grasses and broadleaved weeds
- Poor soil structure due to bad drainage and compaction
- Poor P & K indices and pH scores
- Inappropriate management of grass e.g. under/over stocking.

To make sure you maximise the potential of overseeding, use the following tips:

- Cut or graze the grass as tightly as possible
- Spray out in advance broadleaved weeds
- Ensure P & K indices are at least 2 and consider a Phosphate starter fertiliser
- Make sure pH is 6.5 – 7.0 and soil structure is in good condition
- Remove any thatch, moss etc. using grassland rakes or harrows (remove excessive material if necessary)
- If broadcasting seed, ensure the rake/harrow produces sufficient surface tilth to bury the seed
- If using a specialist overseeding drill or a disc seed drill, avoid excessively wet conditions. Leaving the seed in an 'open slot' is not a good start
- Always roll the seed in, preferably using Cambridge rolls, to ensure good seed-to-soil contact.





OVERSEEDING GRASSLAND

Which grass varieties should I use?

For specialist cutting leys, Hybrid ryegrasses are preferable. They are vigorous to establish and are more persistent than Italian Ryegrass. For dual purpose leys, Hybrids or tetraploid perennial ryegrasses are more reliable.

Golden Rules

1. Don't leave grassland to reach very low levels before overseeding. Remember, maximising average annual production is key.
2. Have a planned approach to overseeding, monitoring leys to ensure high yields of good quality forage are produced.
3. Choose the right variety to sow for your situation.





OVERSEEDING MIXTURES

Dual Purpose Overseeding

Dual purpose overseeding mixtures are designed to improve a medium to long-term cutting and grazing ley. As shown a clover mixture is also available.

Dual Purpose

- 35% Hybrid Ryegrass (T)
- 30% Intermed. Perennial Ryegrass (T)
- 35% Late Perennial Ryegrass (T)

Recommended sowing rate 10 kg/acre

Dual Purpose with Clover

- 30% Hybrid Ryegrass (T)
- 30% Intermed. Perennial Ryegrass (D)
- 30% Late Perennial Ryegrass (D)
- 10% White Clover Blend

Recommended sowing rate 10 kg/acre

Grazer Overseeding

Grazer overseeding mixtures are designed for improving quality of medium to long-term grazing leys. Using tetraploid perennials which are favourable for grazing.

Grazer

- 40% Intermed. Perennial Ryegrass (T)
- 30% Late Perennial Ryegrass (T)
- 30% Late Perennial Ryegrass (T)

Recommended sowing rate 10 kg/acre

Grazer with Clover

- 40% Intermed. Perennial Ryegrass (T)
- 25% Late Perennial Ryegrass (T)
- 25% Late Perennial Ryegrass (T)
- 10% White Clover Blend

Recommended sowing rate 10 kg/acre



WILD FLOWER & ENVIRONMENTAL MIXTURES

Alongside our Productive Grass mixtures, we are also suppliers of **Wildflower and Environmental Stewardship Mixtures**. To get the full details of these please ask one of our representatives for the full range from our **Specialist Seeds Brochure**.

English Meadow Mix

English Meadow Mix Flora

- 5% Birds Foot Trefoil
- 8% Black Knapweed
- 5% Black Meddick
- 5% Common Vetch
- 7% Meadow Buttercup
- 4% Musk Mallow
- 12% Ox-Eye Daisy
- 12% Ribwort Plantain
- 8% Red Campion
- 13% Self Heal
- 15% White Campion
- 6% Yarrow

English Meadow Mix Grass

- 27% Meadow Fescue
- 25% Smooth Stalked Meadow Grass
- 21% Crested Dogstail
- 10% Sheeps Fescue
- 10% Red Fescue
- 7% Browntop Bentgrass

Recommended sowing rate 6 g/m²

English Meadow Mix with Annuals

Meadow Mix with Annuals Flora

- 3% Birds Foot Trefoil
- 8% Black Knapweed
- 4% Black Meddick
- 5% Common Vetch
- 7% Corn Cockle
- 7% Corn Marigold
- 3% Corn Poppy
- 5% Meadow Buttercup
- 4% Musk Mallow
- 12% Ox-Eye Daisy
- 10% Ribwort Plantain
- 5% Red Campion
- 13% Self Heal
- 10% White Campion
- 4% Yarrow

Meadow Mix with Annuals Grass

- 27% Meadow Fescue
- 25% Smooth Stalked Meadow Grass
- 21% Crested Dogstail
- 10% Sheeps Fescue
- 10% Red Fescue
- 7% Browntop Bentgrass

Recommended sowing rate 6 g/m²



AMENITY GRASS MIXTURES

We supply a wide range of **Amenity Mixtures**, most from our range below but many of which are bespoke. These cover a wide range of uses including lawns, sports and recreation areas, road verges, renovation and reinstatement for construction and civil engineering projects.

Standard Lawn

An economy lawn mixture that is quick to establish, is easily managed and will withstand medium to heavy wear with good recovery.

Standard Lawn

- 25% Amenity Perennial Ryegrass
- 25% Amenity Perennial Ryegrass
- 50% Creeping Red Fescue

Recommended sowing rate 35-50 g/m²

Hardwearing Lawn

A quality lawn with an improved appearance and high wear resistance. This mixture will tolerate more shade, and has a low maintenance requirement similar to our standard lawn.

Hardwearing Lawn

- 30% Amenity Perennial Ryegrass
- 20% Amenity Perennial Ryegrass
- 30% Strong Creeping Red Fescue
- 10% Chewings Fescue
- 10% Slender Creeping Red Fescue

Recommended sowing rate 35-50 g/m²



AMENITY GRASS MIXTURES

Superior Lawn

An enhanced version of the Hardwearing Lawn offering superior quality, but still with good wear and low maintenance.

Superior Lawn

- 20% Amenity Perennial Ryegrass
- 20% Amenity Perennial Ryegrass
- 15% Chewings Fescue
- 40% Creeping Red Fescue
- 5% Highland Bent

Recommended sowing rate 35-50 g/m²

Shady Lawn

A mixture that is designed to thrive in shaded areas under trees or areas shaded by buildings. This will also be a low maintenance mixture.

Shady Lawn

- 15% Smooth Stalk Meadow Grass
- 25% Chewings Fescue
- 20% Slender Creeping Red Fescue
- 35% Strong Creeping Red Fescue
- 5% Highland Bent

Recommended sowing rate 35-50 g/m²

Finest Lawn

A fine quality lawn mix suited to front/formal lawns. Creates a dense sward from fine cultivars.

Finest Lawn

- 80% Chewings Fescue
- 20% Highland Bent

Recommended sowing rate 35-50 g/m²

Rye Free Lawn

The Rye Free Lawn Mixture is free from any ryegrasses and produces a very fine textured lawn that is low maintenance, with a lower wear capacity.

Rye Free Lawn

- 60% Creeping Red Fescue
- 30% Chewings Fescue
- 5% Smooth Stalk Meadow Grass
- 5% Highland Bent

Recommended sowing rate 35-50 g/m²



AMENITY GRASS MIXTURES

Utility Hardwearing Mix

A coarser grade, hard-wearing amenity mix that has a wide range of uses from orchards through to car parks and trackways. This mixture is also popular for very large gardens where a slow growing, low maintenance mixture is required. A top tip is to sow this at high rates where more wear is likely.

Utility Hardwearing Mix

- 50% Kent Indigenous Ryegrass
- 25% Creeping Red Fescue
- 12.5% Amenity Perennial Ryegrass
- 12.5% Amenity Perennial Ryegrass

Recommended sowing rate 35-50 g/m²

Solar Park Mix

This is a mixture that has been designed to create low maintenance permanent grassland. It has been designed using species that are long lasting and slow growing after seeding.

Solar Park Mix

- 15% Meadow Fescue
- 15% Kent Indigenous Ryegrass
- 20% Smooth Stalk Meadowgrass
- 20% Timothy
- 15% Strong Creeping Red Fescue
- 10% Hard Fescue
- 5% Small Leaved White Clover

Recommended sowing rate 20 kg/acre





ORGANIC MIXTURES

The organic sector is becoming an increasingly important part of British agriculture. This sector offers particular challenges in terms of mixture design and variety supply.

Having over ten years' experience in this field we are well equipped to meet these demands.

Using our extensive stock, and on-site mixing facilities, we are able to produce a wide range of organic mixtures.

This can be an organic version of any of the agricultural mixtures contained in this catalogue, or they can be bespoke mixes designed to meet your specific requirements.

Please do not hesitate to get in touch with us to discuss your individual requirements regarding organic mixtures.





FIELD MARGINS AND FIELD CORNERS

Field Margins, Field Corners, Pollen & Nectar Mixtures

This is a part of the grass market that is extremely diverse, below are listed some of the most commonly used mixtures, which we are happy as always to tailor to your exact needs.

Margin Mix 1

- 30% Creeping Red Fescue
- 20% Hard Fescue
- 20% Tall Fescue
- 15% Cocksfoot
- 15% Timothy

Recommended sowing rate 20 kg/Ha

Margin Mix 2

- 25% Creeping Red Fescue
- 20% Hard Fescue
- 20% Tall Fescue
- 20% Chewings Fescue
- 15% Timothy

Recommended sowing rate 20 kg/Ha

Margin Mix 1 + Clover

- 25% Creeping Red Fescue
- 20% Hard Fescue
- 20% Tall Fescue
- 15% Cocksfoot
- 15% Timothy
- 5% Red Clover

Recommended sowing rate 20 kg/Ha

Margin Mix 2 + Clover

- 25% Creeping Red Fescue
- 20% Hard Fescue
- 20% Chewings Fescue
- 15% Tall Fescue
- 15% Timothy
- 5% Red Clover

Recommended sowing rate 20 kg/Ha





POLLEN & NECTAR MIXTURES

Margin with Flora

25%	Chewings Fescue
20%	Hard Fescue
15%	Slender Red Fescue
15%	Creeping Red Fescue
5%	Sainfoin
4%	Smooth Stalked Meadow Grass
4%	Crested Dogstail
3.5%	Vetch
2.5%	Red Clover
2%	Browntop Bent
1%	Birdsfoot Trefoil
1%	Black Medick
0.5%	Ox Eye Daisy
0.5%	Wild Carrot
0.5%	Yarrow
0.25%	Black Knapweed
0.25%	Ribwort Plantain

Recommended sowing rate 20 kg/Ha

Pollen & Nectar Mix 1

50%	Sainfoin
18%	Vetch
10.5%	Alsike Clover
10%	Birdsfoot Trefoil
8.5%	Red Clover
3%	Lucerne

Recommended sowing rate 20 kg/Ha

Pollen & Nectar Mix 2

40%	Sainfoin
17%	Vetch
11%	Alsike Clover
10%	Birdsfoot Trefoil
10%	Red Clover
10%	Lucerne
1.5%	Black Knapweed
0.5%	Musk Mallow

Recommended sowing rate 20 kg/Ha



100% NATIVE & LOCALLY GROWN

Our 100% wildflower seed mixtures and meadow mixtures are designed with nature and the environment in mind.

NORTH DOWNS MEADOW



POLLINATOR MIX



CORNFIELD COLOURS



If you are looking to create a habitat that supports insects and pollinators, consider our wildflower mixtures. Our seed is native to the UK and harvested over 150 acres of meadows across the North Downs which we manage directly or are granted access to.

We can provide pure wildflower seed or meadow blends which contain smooth stalk meadow grasses and fescues (at a ratio of 20/80 wildflower seed to grasses). To provide early colour in the first year of establishment we can add a range of cornfield annuals. We can also advise on tailored mixtures for everything from large scale rewilding projects across farms and estates to smaller aesthetic and environmental habitats in gardens and small holdings.

Contact Fred Denne on 01233 720871 for more information.

Environmental and Specialist Seeds

We offer a range of mixtures to suit the ever increasing demand of environmental and specialist seeds, including:

Environmental Schemes:

- AB 1 Nectar Flower Mix
- AB 8 Flower Rich margins and plots
- AB 9 Winter Bird Food
- AB 15 Two year Legume fallow
- GS 4 Legume and Herb Rich swards
- OP 4 Multi Species Leys

Cover Crops: Many growers will continue to utilise cover crops to improve soil health (structure, organic matter, nutrient capture, moisture retention and soil stabilisation) even after the demise of EFA requirements.

Including Mixtures and straights of:

- Oats/Rye
- Oil Radish
- Phacelia
- Vetch
- Clovers
- Buckwheat
- Mustards
- Plus much more





**Wild flower harvesting
using brush collector
on the North Downs**