

T DENNE & SONS

Combinable Seeds & Grass Seeds Autumn 2021



Grain Store
TASSC - YY2230

**FIRST
CROP
SEEDS**

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T DENNE
& SONS

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CROP
SEEDS**

Grain Store
TASSC – YY2230

Seeds Haulage
Trading

Hanover Mill Mersham Ashford Kent TN25 6NU

T: 01233 720871 F: 01233 721200 E: info@tdenneandsons.co.uk
www.tdenneandsons.co.uk

Seeds Manager

Andrew Bourne

Mob 07740 719214

Email andrewbourne@tdenneandsons.co.uk

Haulage & Accounts

Andrew Keir

Mob 07767 703470

Email andrewkeir@tdenneandsons.co.uk

Sales, Logistics & Production

Anelia Podskoknieva

Mob 07798 701064

Email anelia@tdenneandsons.co.uk

Grass Production & Grain Marketing

Pat Goode

Mob 07703 672717

Email patgoode@tdenneandsons.co.uk

Whitehill Store Manager

Jon Hunt

Mob 07767 703467

Email jonhunt@tdenneandsons.co.uk

General Enquiries

Fred Denne

Mob 07708 076682

Email freddenne@tdenneandsons.co.uk

Welcome

The last brochure we produced was in 2019. That was pre-Brexit, Pre-Covid and Pre-BPS Reduction. A lot has changed in this short window, and on top of the obvious difficulties we all faced over the past 12 months, we have continued to see increased legislation and pressure on agrochemical availability. Within this brochure we have focused on the opportunities that these changes bring. Not only will you find our usual summary of varieties, markets, and seasonal pressures, but also details on all grass and fodder seeds and cover crop mixes we offer. You will also find details about new environmental opportunities which we think are very relevant particularly with the phasing out of BPS and introduction of 'Public Money for Public Good'.

Grass Seed Production – a sensible break crop alternative.

We have seen increasing demand from international breeders for UK grown grass seed. We view this as a good alternative to standard break crops which may become unviable with reduced support payments. Backing our own advice, we have invested heavily into a state-of-the-art grass processing plant. Our new plant has enabled us to significantly increase our processing and packing ability up to 3,000 tonnes.

Please do get in touch with any of us should you want to talk through the merits of growing grass seed. We do also cover this subject further within this booklet.

Wildflower Seed Production

We have entered the ever-growing wildflower market. In summer 2020 we began brush harvesting wildflower meadows across the North Downs which successfully provided us with 250kg of mixed wildflower seed. Our new air classifier cleaner was able to separate much of this seed into straights which we will be multiplying across 25 acres of chalk downland. From summer 2022 we will be able to sell North Down grown wildflower mixes and straights. Something to consider when entering into ELMS going forward.

Trials Day

This year we plan to hold, in conjunction with Zantra, our annual Wheat Variety Trials Day on the 25th June 2021 at High Chimney Farms, Stelling Minnis, Near Canterbury. If Covid restrictions are lifted as per Boris' timeline then it will be as close to a normal event as possible. If restrictions are still in place, we will need to manage numbers accordingly.

Fred Denne

April 2021

FIVE REASONS TO GROW Costello WINTER WHEAT



*Costello will reduce your risk
and enhance your profit*



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1

EXCEPTIONAL GRAIN
QUALITY, WITH THE
HIGHEST SPECIFIC
WEIGHT ON THE AHDB RL

2

RESISTANT TO
YELLOW RUST

3

CONSISTENT
PERFORMANCE IN
ALL SITUATIONS

4

SHORT, STIFF STRAW

5

STRONG END MARKET
DEMAND

AHDB

RECOMMENDED

Wheats:

As we all know, yield is king, and despite the differential in treated yields on the AHDB Recommended Lists, in practice, seasonality, regional differences and experience of varieties will always have more influence on farm performance and hence variety selection by growers.

In the South East region, we have traditionally grown higher proportions of quality wheats (Groups 1,2 & 3) than the UK average. Access to relatively close by consumers of these types, plus the export opportunities from our ports made these varieties obvious choices. However, the market is changing with supply chains to domestic homes more restricted and uncertainties with export positions.

This certainly does not mean we should not continue to grow these types with the premium opportunities that they bring, but as other markets emerge, we must not ignore the options from a wider range of varieties. As we look at the varieties below you will see the breadth of outlets that we can tap into going forwards.

Group 1

This sector is dominated by Skyfall and KWS Zyatt, but still a strong following of Crusoe.

KWS Zyatt. Firmly established in this group, KWS Zyatt has shown good agronomics and strong miller uptake. It has shown increasing susceptibility to some yellow rust strains and must be managed accordingly. It is a strong second wheat contender on more fertile sites.

Skyfall. This variety has shown great flexibility in terms of site selection, rotational position and consistency. It has a tendency to produce lower protein levels when yield potential is high, but has been reliable on lighter sites, as a second wheat and late drilling situations. Like KWS Zyatt, Skyfall needs good yellow rust management. It has OWBM resistance.

Crusoe. Despite losing market share against the previous varieties, Crusoe has a strong following by millers, being perceived by many as the variety of choice. It has shown some yield lag compared to Zyatt and Skyfall, but on fertile sites it consistently yields on par and also reaches 13% Cp protein.

Good Sep. tritici and yellow rust scores remain in place, but has weak brown rust resistance

Look out for KWS Palladium and RGT Flintoff (Milling wheat Candidates 2021).

Group 2

This is an increasingly important group, offering varieties of lower quality than Gp 1, but still of value to millers within their flour grists. In addition, they represent a broader genetic spectrum giving growers a better range of disease ratings in the hard milling wheat sector.

KWS Extase. With its increased interest from millers, KWS Extase looks set to build on its initial success due to strong disease scores and good grain quality. It shows good performance on lower fertility sites and second wheat positions, but needs planting in the second half of the drilling program. Although a tall variety, it responds well to a solid PGR regime. It is prone to drop tillers after winter so a slightly elevated seed rate is advised.

KWS Siskin. Above average Sep tritici scores have been a key attribute for this variety. Yellow rust resistance remains strong, with brown rust at 5 that has been consistent over time. KWS Siskin is a fast developing variety so should not be sown until late September at the earliest. Late autumn sowing is not ideal. The variety responds well to a robust PGR.

Look out for Mayflower (milling wheat candidate 2021).

Group 3

This sector has lost market share of late, partly due to lack of export opportunities and limited premiums. Stalwarts such as Claire and Zulu are now rarely seen, but we have a modest selection to choose from, and a good offering from the breeders to look forward to.

KWS Firefly. This variety has taken a large market share in the sector. It has good UK miller uptake, but as yet has limited exposure to the European consumers. It has shown consistent performance across a range of situations and offers OWBM resistance. KWS Firefly has good yellow rust and Sep. tritici resistances, but is weak for brown rust. Straw is short and stiff.

Merit. A new entry to the recommended list, Merit has had extensive evaluation from NABIM, as well as being tested by continental buyers. Resistances for both rust diseases are strong and a solid 6.6 score for Sep tritici. However, a mildewcide should be considered. Specific weight is a strong 76.6kgs/hl. Merit has short stiff straw requiring a moderate PGR.

KWS Basset. This variety has been a firm favourite for the last few years, showing good grain quality, straw characteristics and consistent disease profile. KWS Basset has had good uptake from domestic millers.

Look out for a range of new Gp3 candidate varieties for 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** ^{plus}
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



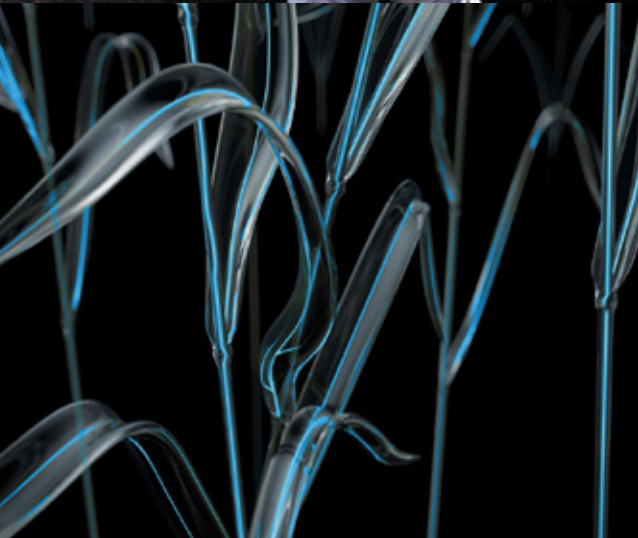
lgseeds.co.uk/crusoe

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

Limagrain



Get peak performance with KWS' varieties in Groups 1, 2 & 3!



KWS ZYATT

- Still the UK's highest yielding Group 1 breadmaking wheat
- Excellent disease resistance including best *Septoria* of Group 1s and Pch1
- Superb second wheat performance

KWS EXTASE

- 8.0 for *Septoria tritici* - the first variety with a score over 8
- The most complete package in terms of disease resistance and quality on the market today
- Exceptional untreated yields



KWS FIREFLY

- Super wide sowing window with great yield potential from mid September to end of February
- Good disease package, including 6.8 for *Septoria* and OWBM resistance
- One of the stiffest varieties on the Recommended List



Group 4

These varieties are normally associated with higher yields as breeders strive to achieve maximum output. However, a balance between high yields and reliable disease and agronomic characteristics must be considered as a priority.

Costello. A hard endosperm variety with short stiff straw and very high specific weight. Costello performs consistently well across a range of situations. Its yellow rust and Sep. tritici scores are consistent and reliable. A “banker” variety with some premium potential.

Garibaldi. A hard endosperm variety from a new wheat breeding programme based in UK. A reliable range of disease scores are derived from use of genetics not commonly used in UK wheat breeding, giving greater diversity and better chance of varietal resistances not breaking down. Good straw characteristics and OWBM resistance add to this strong package.

Gleam. A hard endosperm type with good agronomics, and a reliable disease profile. OWBM resistance is a useful additional character. Consistent performer across a range of situations and seasons.

RGT Lantern. A hard endosperm variety which offers a wide range of drilling dates, and like its parent Relay, does particularly well later sown and in a second cereal position. Disease ratings are mid-range but consistent, with short stiff straw and OWBM resistance.

RGT Saki. This is a soft endosperm variety, with strong disease ratings, though yet to be tested in a full commercial context. Stiff straw and OWBM resistance. RGT Saki is a fast-developing variety that performs well on a range of soil types. Grain quality is good at 75.9 kg/hl.

YOU NEED TO EAT YOUR **SY KINGSBARN**

THE NEW FEED BARLEY WITH SUPERIOR GRAIN QUALITY



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syngenta®

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

Winter Barley

Winter barley varieties are now predominantly of feed types, with winter malting markets now very limited, especially in the south east. The Hybrids have the advantage of higher levels of grass weed suppression when compared to conventional varieties. The latter offer lower input costs and good grain quality on low grass weed and high fertility sites.

SY Kingsbarn and SY Bazooka cover most requirements for Hybrid growers, with improving yields, grain quality and plant architecture that gives good grass weed suppression. A new variety SY Canyon looks to compliment the choice available but has limited supply this season.

Conventional varieties are dominated by 2 row types, with KWS Tardis, KWS Hawking and KWS Orwell all showing consistent grain qualities and agronomics.

Winter Oats

The market for oats as ever is dominated by a cycle of “feast and famine”. Oat supplies are currently strong, but recent news that domestic demand for oats will increase over the next 3-5 years, as additional processing capacity comes on line. This shows long term and sustainable demand in UK, over and above ongoing export homes. This range of outlets makes our region well placed to service both markets.

Mascani continues to dominate the winter oat area, with its excellent grain quality maintaining miller preference. This is unlikely to change until another variety with equal or improved quality comes to the market.

Oilseed Rape

This crop has lost significant areas planted over the last two years, being mainly due to adult cabbage stem flea beetle attack at establishment or later at larvae stage developing in the stem causing crop failure.

Hybrids more vigorous nature appear to have some advantage at “diluting” the impact of larvae pressure. The use of companion crops such as Buckwheat and Fenugreek appear to have benefits during establishment and early development, with the additional crop disorientating the fly in of adult beetle and thus reducing attack pressure on the crop.

Hybrid Varieties

Ambassador. This variety has a gross output score of 109% and good straw characteristics. It has mid-range maturity and good resistance to LLS and stem canker. Ambassador shows good resistance to pod shatter, has an oil content of 45.2% and TuYV resistance.

Temptation. This variety has proven a consistent performer over the last two seasons with good establishment vigour and a high oil content at 46.1%. Straw is stiff at flowering and maturity, though has a score of 5 for stem canker and 6 for LLS. Resistant to TuYV.

Flemming. This is a candidate variety for East/West recommendation later this year. It has a very high gross output (109%) and is mid/late to mature. LSS resistance is scored at 7, and has an 8 for stem canker, based on a new resistance gene RLmS. Flemming is also TuYV resistant.

Celo CL. This is a Clearfields variety, allowing use of selective herbicide products to control cruciferous weeds such as charlock and hedge mustard. These varieties tend to be lower yielding than non-Clearfield types, but do allow growers to use sites where oil quality is being compromised by weeds mentioned above or volunteer OSR plants.

Croozier. This variety has resistance to common strains of clubroot, a condition associated with regular growing of brassica species on specific sites. These specialist varieties tend to lag behind in terms of gross output relative to the highest yielding types, but Croozier offers a good range of agronomics and has a score of 9 for stem canker resistance.

Conventional Varieties

Aspire. With 104% of control gross output, Aspire has good stem characteristics and is at the later end of the maturity scale. LLS score is 7, with 5 for stem canker. Oil content is 45.7% and has TuYV resistance.

Campus. Despite being in the market for a long time, Campus has shown excellent consistency over time, with good autumn and spring vigour. Disease ratings again are consistent, while straw is stiff, but will lay into an even canopy at maturity. Good oil contents at 45.6% and good tolerance to verticillium wilt.

Keeper. Although narrowly missing recommendation, Keeper offers good all round disease resistance, stiff stem characteristics. Keeper also has high oil content and a consistent seed yield. Maturity is mid-range. Its reliable year on year, performance is fitting with its name.

KWS Blazen. Recommended for the north, Blazen has performed well in the south of UK, with medium maturity and disease ratings. Blazen is offered as part of an establishment guarantee agreement with the breeder, KWS. In effect the grower pays for just under half of the full cost of seed at planting, with the balance due ONLY on established areas, hence managing the risk to grower if conditions are difficult.

HOLL Varieties - (High Oleic, Low Linolenic)

Vistive Oilseed rape

HOLL hybrid winter oilseed rape is a high oleic low linolenic (HOLL) fatty acid oil profile. These varieties produce healthy, low-transfat and stable frying oil and unlike standard rapeseed oils, Vistive oil requires no hydrogenation to make it stable when being used at high temperatures and so offers major health benefits from greatly reduced levels of transfats which are produced from the hydrogenation process.

Agronomy

HOLL oilseed rape has no specific agronomic needs that differ from conventional oil seed rape (OSR) varieties. The main differences come in preventing contamination to ensure the quality of the High Oleic, Low Linolenic oil profile is preserved.

Varieties

Hybrid varieties from the DeKalb stable are linked to these contracts. HOLL varieties are now competing readily with non HOLL recommended varieties in terms of yields, agronomics and disease.

HEAR Rape (High Erucic Acid Rape)

We are able to offer contracts for 2022 harvest with;

- Flexible movement and payment terms;
- Price fix Options;
- Seed supply options to help manage cashflow;
- Establishment area scheme available;
- Range of varieties to suit individual situations.

Please contact us for further information regarding premiums and contracts.

NOTES

Winter Beans

This crop has regained popularity over the last few seasons, giving growers a wider planting window for beans within the rotation. Drilling at more specific rates has led to crops being more manageable agronomically as well as performing more consistently in terms of yield.

Tundra. This variety dominates the winter bean area, with short stiff straw and good disease tolerance. Tundra is suitable for the export market for human consumption beans.

Vespa. With a higher yield than Tundra, Vespa has taller straw, but remains stiff, and is later to mature. It has shown consistent performance in official trials over the last 3 years.

BEAN CLEANING IN PROGRESS



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

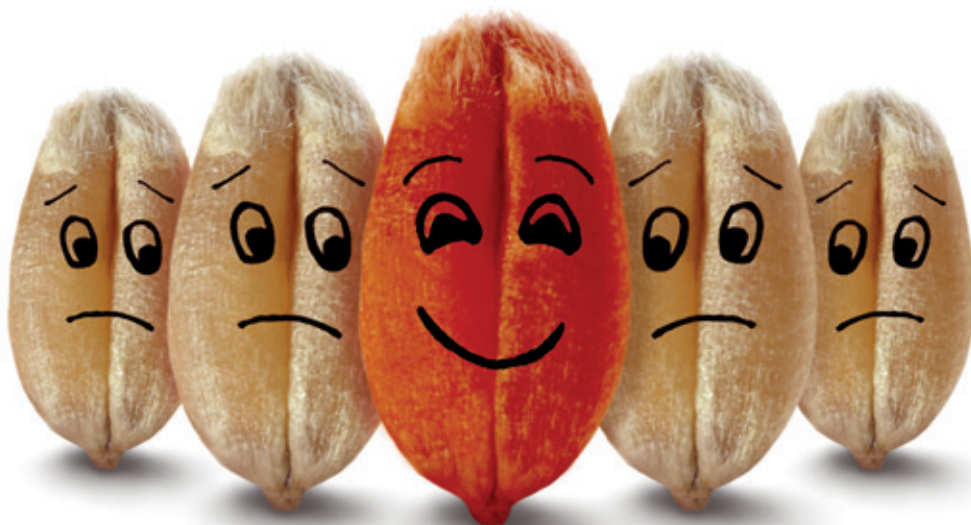


Roller conveyor system to improve bag handling flexibility

Full range of seed treatments available



All dressed up and ready to grow



CERTIS
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LATITUDE®
The only take-all seed treatment

Protecting Yield, Quality and Profit

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SIGNAL 300 ES®

INSECTICIDE SEED TREATMENT FOR WHEAT BULB FLY
AND WIREWORM CONTROL



A Zone of Protection

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THE KING OF SECOND WHEAT.



Grow to expect the best

RGT LANTERN

G4 WINTER WHEAT

THE HARD WHEAT THAT BEATS ALL IN THE SECOND WHEAT SLOT.

CHARACTERISTICS:

 Very high yielding  Good all-around disease resistance  Consistent performer  Short, stiff straw

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, we began in 2019 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.



At Denne's 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- 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 (1-2 years)

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

Recommended sowing rate 14-16 kg/acre

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 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 Festulolium

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 Festulolium
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.

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

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.

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

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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

Dual Purpose
OS + Clover

Grazer OS

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

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

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 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 Meddock
- 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 Meddock
- 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

NEW

Great disease package

Easier to plan for spray inputs.

Higher Hagberg

Easier to hit the right grain quality.

Flexible end use

Easier to profit from the best market.

Thrives in the East

Easier to manage all-round.

Choosing a Group 3 soft?

Merit makes it easier.

New Merit has huge potential as one of the easier to grow Group 3 soft wheats. Especially in the East, where it is highly recommended. Grain quality, yield consistency and, like its predecessors from Elsoms, flexible market access make it the easier-to-choose soft option. Grow it on its merits.

MERIT

Winter Wheat

Speak to your seed merchant
today about availability.

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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**