

# GRASS & FORAGE

SEED CATALOGUE 2024

Optimise yield from grass and grow more quality forage using only top performing varieties from the Recommended List



**CARR'S  
BILLINGTON**



GRASS  
FORAGE  
ENVIRONMENTAL  
GAME COVER  
AMENITY

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ORGANIC MIXTURES ARE ALSO AVAILABLE

Please phone 0800 023 4416

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# WELCOME TO THE CARR'S BILLINGTON SEED CATALOGUE 2024

This year is going to be a little bit different with the Government launch of the new SFI incentives.

A lot of seed enquiries are going to be concentrated on the new schemes and we have ensured that everything is in place for us to be able to provide you with all the diverse mixtures.

However, maximising grass and forage is still the most important resource to livestock farmers. Focusing on growing and utilising more high quality grass will reduce the need for purchased feed which, in turn, will improve profit.

Alex Law,  
Carr's Billington Grassland Specialist



In partnership with grass specialists Barenbrug we offer an extensive range of high performance grass seeds selected from the latest Recommended List varieties, supported with on-farm advice. Mega Grass Leys mixtures are formulated by Barenbrug utilising the excellent expertise and research from world class breeders so we can pass all those benefits on to you.

## SPECIAL MIXTURES



You might decide that you need something a bit more bespoke to suit your farm or system. We can help and offer flexibility on formulating and delivering a custom made seed mixture especially for you.\*

Just get in touch: **0800 023 4416**  
**forage@carrs-billington.com**

\*Minimum order 10 acres







# MEGA MIXTURES







All grass seed mixtures have been carefully formulated with the grass experts Barenbrug UK. Every variety is either on the Recommended List or the SRUC list 23/24.




## SHORT-MEDIUM TERM

<p><b>MEGA CATCH</b> 12-18 months</p>  <p>Massive yields Cutting &amp; grazing</p>	<p><b>MEGA YIELD</b> Up to 3 years</p>  <p>High yield Italian cutting</p>	<p><b>MEGA MAX</b> Up to 4 years</p>  <p>Red Clover High Protein</p>	<p><b>MEGA VIGOUR</b> Up to 5 years</p>  <p>Intensive silage and grazing</p>
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## LONG TERM

<p><b>MEGA CHOICE</b> Multi purpose</p>  <p>For all areas &amp; systems</p>	<p><b>MEGA PERM</b> Multi purpose</p>  <p>Permanent grassland</p>	<p><b>MEGA UPLAND</b> Multi purpose</p>  <p>Upland Beef &amp; Sheep</p>	<p><b>BARMIX</b> Multi purpose</p>  <p>Low input Beef &amp; Sheep</p>
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## MEDIUM - LONG TERM

<p><b>MEGA CROPPER</b> Mainly cutting</p>  <p>Up to 4 cuts plus grazing</p>	<p><b>MEGA BOOST</b> Mainly grazing</p>  <p>Boost stock capacity</p>	<p><b>MEGA RESILIENT</b> Grazing &amp; cutting</p>  <p>For drought, low rainfall areas</p>	<p>A new ley will yield up to <b>5T DM/ha</b> more in the first year than a four year old ley</p>
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## OVERSEEDING

<p><b>MEGA PATCH</b></p>  <p>Repairing damaged areas</p>	<p><b>MEGA RESTORE</b></p>  <p>Full sward renovation</p>	<p><b>BARMIX RENEW</b></p>  <p>Challenging soil types</p>	<p>1 year old ley 14,300kg/ha  5 year old ley 10,900kg/ha = A loss of <b>47,820 MJ/ha</b></p>
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We reserve the right to substitute any varieties due to lack of availability and replace it with one of equal performance.

# MEGA CATCH

25kg pack 10-14kg/acre



## SHORT TERM - 12-18 MONTHS

Highly productive, short term, Westerwold and Italian ryegrass mixture for silage production with a winter grazing option.

### What it delivers

Very fast to establish for cutting, grazing or both under a high input system. Sow at a full sowing rate of 14kg/acre for intensive production. This 12 – 18 months ley will result in up to 5 silage cuts with aftermath grazing. It can also be used at a lower sowing rate (10kg/acre) for greening, overwintering or a catch crop after maize.

### Where it works

Can grow in temperatures down to 3°C, and has a very long growing season. Spring sown it is ready for cutting after around 12 weeks. It should be cut frequently to encourage leafy growth. Autumn sown it provides very early spring growth for an early bite.



### Variety Performance

- Barspectra Westerwold provides excellent spring growth and high DM yields

Over 20t DM/ha in 12 months under high fertility

KG	VARIETY	
12.5	<b>BARSPECTRA</b>	Westerwold Ryegrass (Tet)
12.5	<b>ALAMO</b>	Italian Ryegrass (Dip)

# MEGA YIELD

14kg /acre/pack



## MEDIUM TERM - 2-3 YEARS

Highly productive Italian and Hybrid ley, providing an exceptional crop for silage or hay from a high input system, with a winter grazing option.

### What it delivers

Designed to give massive production for 2-3 years under a high input system. Has the ability to produce up to 5 silage cuts followed by aftermath grazing, making it perfect for a short break in arable rotations and all livestock systems.

### Where it works

Can grow down to 4°C providing a very long growing season. Growers must be able to utilise the early grass. Exceptional spring growth makes it ideal for early lambing or turnout, after which 4-5 cuts of quality silage can be taken. Also useful for flushing or finishing sheep later in the year.



### Variety Performance

- A first cut mid to end of May following a spring grazing will produce 70+ D-Value silage, with a 2nd cut 4-6 weeks later

Capable of producing around 19t DM/ha in the first year

KG	VARIETY	HEADING DATES: 22th May - 24th May
4	<b>ALAMO</b>	Italian Ryegrass (Dip)
4	<b>BARMULTRA II</b>	Italian Ryegrass (Tet)
6	<b>KIRIAL</b>	Hybrid Ryegrass (Tet)

# MEGA MAX 14kg /acre/pack



## MEDIUM TERM - UP TO 4 YEARS

Red clover can fix up to 150kg/ha/year of Nitrogen and increases protein content. Options to cut up to four times or a mix of cutting and grazing.

### What it delivers

This mixture can grow in temperatures as low as 5-6°C, extending the growing season. Capable of three to four cuts of high protein silage, followed by aftermath grazing. Ideal for finishing or growing on youngstock. (Breeding ewes should not be fed red clover 6 weeks either side of tugging).

### Where it works

Select free-draining fields and leave a 4 inch (10 cm) stubble when mowing so the Red Clover crown is left intact. Red Clover swards need to be well managed and never over grazed.



### Variety Performance

- Kirial produces excellent annual yields in the first three years
- Fintona is an exceptionally high yielding variety, with very good winter hardiness



Can produce up to 16t DM/ha in it's first year

KG	VARIETY	HEADING DATES: 21st May - 24th May
6	<b>FINTONA</b>	Intermediate Perennial Ryegrass (Tet)
4.75	<b>KIRIAL</b>	Hybrid Ryegrass (Tet)
3	<b>PROTA RED</b>	Red Clover Blend
0.25	<b>PROTA WHITE</b>	Large leaf white clover

# MEGA VIGOUR 14kg /acre/pack



## MEDIUM TERM - UP TO 5 YEARS

A high input, high output mixture for intensive silage production for 3 – 5 years. Up to four cuts per year with the option to graze.

### What it delivers

This hybrid-ryegrass mixture can grow down to 5-6°C soil temperature, extending the growing season whilst remaining easier to manage than Italian mixtures. Yielding around 10% more than long term leys, MEGA VIGOUR can persist up to 5 years. Close heading dates keeps the silage crops uniform.

### Where it works

Ideal for a medium term rotation for mixed livestock & arable units. Ideal for grass based systems looking to maximise yield from forage.



### Variety Performance

- All varieties giving yields over 101% of control varieties
- All varieties giving 1st cut D values of 70 or more



Potential to produce over 17t DM/ha in the first year

KG	VARIETY	HEADING DATES: 20th May - 4th June
3.5	<b>KIRIAL</b>	Hybrid Ryegrass (Tet)
5	<b>BANNFOOT</b>	Hybrid Ryegrass (Tet)
2.5	<b>SEAGOE</b>	Intermediate Perennial Ryegrass (Tet)
2.5	<b>GOSFORD</b>	Intermediate Perennial Ryegrass (Dip)
0.5	<b>PROTA WHITE</b>	White Clover Blend



# MEGA CROPPER 14kg /acre/pack



## MEDIUM-LONG TERM

Up to four multiple silage cuts per year, high yielding with nutritious forage for autumn grazing. Suitable for a wide range of landscapes.

### What it delivers

A medium-long term, top quality cutting ley, which will also produce a high quality, dense, palatable grazing sward. Combines quality from the high tetraploid content with excellent sward density from the diploids. Exceptional digestibility (both 1st and 2nd cuts over 70D) to produce better animal performance.

### Where it works

Ideally suited for a mid May first cut and works well in most areas.



### Variety Performance

- Fintona provides a huge first cut
- Bannfoot provides excellent spring growth, high yields and good disease resistance.

**Has the potential to produce over 14t DM/ha over 3 cuts**

KG	VARIETY	HEADING DATES: 21st May - 8th June
2	<b>BANNFOOT</b>	Hybrid Ryegrass (Tet)
3	<b>GALGORM</b>	Intermediate Perennial Ryegrass (Dip)
3.5	<b>MOIRA</b>	Intermediate Perennial Ryegrass (Dip)
2	<b>FINTONA</b>	Intermediate Perennial Ryegrass (Tet)
2.5	<b>SEAGOE</b>	Intermediate Perennial Ryegrass (Tet)
0.5	<b>COMER</b>	Timothy
0.5	<b>PROTA WHITE</b>	White Clover Blend



# MEGA BOOST 14kg /acre/pack



## MEDIUM-LONG TERM

Highly palatable and digestible for traditional mid-spring turnout, intensive cattle grazing with the option to take later silage cuts.

### What it delivers

For intensive grazing production from a dense, prolific ley with the option to take later cuts of silage. The diploid content forms a dense sward that is more competitive with weeds. Clover provides increased protein levels, intakes and animal performance.

### Where it works

A late heading mixture to match traditional cattle turnout in mid-late spring, resulting in the best quality, tight and persistent grazing sward. Also a useful option to consider for late cutting environmental schemes.



### Variety Performance

- Produces a persistent, palatable ley with a high leaf:stem ratio for ease of management, ground cover and digestibility
- All ryegrass varieties have a grazing D value over 75

**Around 10t DM/ha dependent on conditions**

KG	VARIETY	HEADING DATES: 31st May - 8th June
4	<b>CALLAN</b>	Late Perennial Ryegrass (Dip)
3	<b>DUNDROD</b>	Late Perennial Ryegrass (Dip)
5.5	<b>BIJOU</b>	Late Perennial Ryegrass (Tet)
1	<b>COMER</b>	Timothy
0.5	<b>PROTA WHITE</b>	White Clover Blend



# MEGA RESILIENT 14kg /acre/pack



## MEDIUM-LONG TERM

For medium term rotations where silage is the focus. This mix can persist better than ryegrass in dry areas with low rainfall due to its drought tolerance.

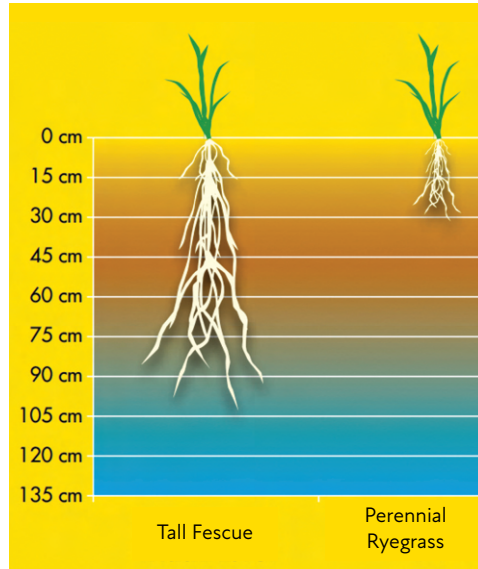
### What it delivers

This mixture will need longer to establish to allow the extensive root system to develop. The early and late season growth makes it ideal for multiple silage cuts throughout the season. High in digestible fibre and protein.

### Where it works

Fescues are deep rooting (over 3x longer than perennial ryegrass) so draw moisture and nutrients from lower in the soil profile which also aids soil stability. Produces more grass than conventional ryegrass leys under a low input N regime but equally capable of responding to N inputs.

**Potential 17t DM/ha dependent on level of drought conditions.**



### Variety Performance

- Tall Fescues tolerate cold, heat, drought, shade and waterlogging
- All varieties yielding 100% or over
- All 1st cut D values over 70
- Extensive rooting for soil stability

KG	VARIETY	HEADING DATES: 22nd May - 8th June
1.5	FINTONA	Intermediate Perennial Ryegrass (Tet)
3	SEAGOE	Intermediate Perennial Ryegrass (Tet)
4.5	BARDOUX	Tall Fescue
3	BARELITE	Tall Fescue
1	COMER	Timothy
1	PROTA WHITE	White Clover Blend



# MEGA CHOICE 14kg /acre/pack



## LONG TERM

Designed to give the maximum yield over the longest possible growing season and producing forage at the times of year it is most valuable.



### Variety Performance

- Galgorm produces the highest yield in the RGCL
- Timothy increases persistence under challenging conditions
- Clover blend increases protein levels, intakes, animal performance and nitrogen fixation

### What it delivers

Season long grazing or up to 2 cuts per year with the option to graze any time. Exceptional spring growth makes it ideal for lambing or early turnout. Excellent sward density and persistency to minimise poaching and weed encroachment.

### Where it works

Sow at soil temperatures above 8°C; clover will germinate at 10°C For high quality silage cuts and grazing for any class of stock.

**Up to 6.7t DM/ha from first cut or over 3.6t/ha throughout spring if grazed**

KG	VARIETY	HEADING DATES: 22nd May - 8th June
4.5	GALGORM	Intermediate Perennial Ryegrass (Dip)
3	MOIRA	Intermediate Perennial Ryegrass (Dip)
2.5	GOSFORD	Intermediate Perennial Ryegrass (Dip)
2.5	BALLINTOY	Late Perennial Ryegrass (Tet)
1	COMER	Timothy
0.5	PROTA WHITE	White Clover Blend



# MEGA PERM 14kg /acre/pack



## LONG TERM

Designed for lower input systems, suited to both cutting and grazing, particularly for beef and sheep enterprises.

### What it delivers

A modern version of a traditional Scottish long-term mixture, ensuring a winter hardy, robust, persistent ley. Outstanding persistency and ground cover using varieties with proven durability and winter hardiness.

### Where it works

Long-term cutting and grazing with an early spring growth, making it ideal for lambing or early turnout. Early grazing can be followed by 1 - 2 cuts and further grazing, or a full season of grazing.



### Variety Performance

- Produces a leafy, quality sward with excellent palatability
- High diploid and Timothy content guarantees performance in wetter, less fertile conditions, improves sward density and extends grazing season

**Has the potential to produce 7t DM/ha (first cut) or over 3.2t DM/ha if grazed**

KG	VARIETY	HEADING DATES: 22nd May - 8th June
4.5	<b>GALGORM</b>	Intermediate Perennial Ryegrass (Dip)
2	<b>SEAGOE</b>	Intermediate Perennial Ryegrass (Tet)
3	<b>CALLAN</b>	Late Perennial Ryegrass (Dip)
2	<b>BALLINTOY</b>	Late Perennial Ryegrass (Tet)
1.5	<b>COMER</b>	Timothy
1	<b>PROTA WHITE</b>	White Clover Blend



# MEGA UPLAND 15kg /acre/pack



## LONG TERM

Proven mixture in varied conditions, where meeting demands on quality forage production is difficult. Ultimate long term beef and sheep ley.

### What it delivers

The high proportion of quality Timothy in this mixture ensures season long production even in wet, dry, hot or cool conditions. The slightly higher seed rate per acre ensures a dense sward establishment.

### Where it works

Excellent spread of high performing ryegrasses providing season long production. The high proportion of diploids contain less water providing a higher dry matter and more energy. Their ability to form a dense sward is essential for long term persistency and resilience.



### Variety Performance

- Includes high level of smaller leaf persistent varieties of white clover
- All varieties proven for winter cover and hardiness

**Potential to yield over 7.5t DM/ha from a first cut or over 3.2t DM/ha if grazed**

KG	VARIETY	HEADING DATES: 31st May - 8th June
3.25	<b>DUNDROD</b>	Late Perennial Ryegrass (Dip)
3	<b>CALLAN</b>	Late Perennial Ryegrass (Dip)
2.25	<b>BALLINTOY</b>	Late Perennial Ryegrass (Tet)
2	<b>GLENARM</b>	Late Perennial Ryegrass (Dip)
2	<b>BIJOU</b>	Late Perennial Ryegrass (Tet)
1.25	<b>COMER</b>	Timothy
1.25	<b>PROTA WHITE</b>	White Clover Blend





# BARMIX 14kg /acre/pack



## LONG TERM

A highly successful, long term option for low input Beef and Sheep systems with challenging environments.

### What it delivers

High yielding, palatable providing a dense sward with exceptional late winter and early spring growth making it ideal for all beef and sheep needs. Highly, persistent and drought tolerant, high protein clover sward.

### Where it works

The latest Cocksfoot and Tall Fescue varieties are highly palatable and nutritious, producing more grass than ryegrass leys under lower fertility and lower nitrogen conditions. They are more tolerant of extreme conditions and provide soil stability.



### Variety Performance

- Archibaldi, Bardoux and Barcuby are proven in on-farm grazing trials to be highly palatable due to their soft leaves
- Gracehill has a grazing total of 105% and an impressive first cut of 113%



Potential to produce around 12-13t DM/ha grazed. Higher yields when cutting

KG	VARIETY	HEADING DATES: 5th May - 9th June
2	BALLYVOY	Late Perennial Ryegrass (Dip)
3	GRACEHILL	Late Perennial Ryegrass (Tet)
4	BARDOUX	Tall Fescue
2	BARCUBY	Tall Fescue
1	ARCHIBALDI	Cocksfoot
1	BARONAISE	Timothy
1	PROTA WHITE	White Clover Blend



# MEGA PATCH 10kg /acre/pack



## OVERSEEDING

A specialist mixture designed to repair damaged and poached areas, regenerating them back into production quickly.

### What it delivers

Rapid establishment and aggressive growth will smother weed seedlings. Grass will give a rapid return to cover and production from the ley.

### Where it works

For overseeding areas damaged and poached by stock such as gateways and around troughs.



### Variety Performance

- Abys has very good winter hardiness and early spring growth
- All varieties have good disease resistance



KG	VARIETY	HEADING DATES: 14th May - 3rd June
3	ABYS	Italian Ryegrass (Dip)
3.5	BANNFOOT	Hybrid Ryegrass (Tet)
3.5	CALEDON	Intermediate Perennial Ryegrass (Tet)

# MEGA RESTORE 10kg /acre/pack



## OVERSEEDING

Designed to increase the proportion of productive ryegrass in the sward and introduce the opportunity to add or increase the clover content.

### What it delivers

Increases the quality of an existing ley resulting in better animal performance. Repairs poached areas of grazing swards or damage from intensive silage production. White clover adds nitrogen fixation, palatability and increased animal intakes and higher productivity.

### Where it works

Uses varieties which are aggressive enough to establish in an existing sward, yet easy to manage. Specifically designed to work best in swards which will be maintained for at least another 3 years. Flexible enough to be used in silage or grazing fields.



Forage is your cheapest feed; overseeding will get your sward back into productivity

KG	VARIETY	HEADING DATES: 22nd May - 6th June
2	KIRIAL	Hybrid Ryegrass (Tet)
3	CALEDON	Intermediate Perennial Ryegrass (Tet)
4.5	BALLINTOY	Late Perennial Ryegrass (Tet)
0.5	PROTA WHITE	White Clover Blend

# BARMIX RENEW 10kg /acre/pack



## OVERSEEDING

A multispecies, highly palatable overseeding mixture for beef and sheep production in lower fertility areas.

### What it delivers

A highly palatable, multispecies option for restoring productivity to upland and challenging, low input beef and sheep swards. Aggressive enough to establish in an existing sward with easy management after being tightly grazed in spring. A good option in fields used for outdoor lambing or early cattle turnout. Improves quality of grass resulting in better animal performance.

### Where it works

Sow when the soil temperature is above 8°C; the clover will germinate at 10°C.



### Variety Performance

- The deep rooting ability of Timothy and Cocksfoot offers regenerative production in both heavy and light soils
- Caledon provides excellent total annual yields through spring and summer

Full season of grazing, or 1-2 cuts of baled silage, haylage or hay

KG	VARIETY	HEADING DATES: 30th May - 8th June (ex cocksfoot)
3	CALEDON	Intermediate Perennial Ryegrass (Tet)
5	DUNDRUM	Late Perennial Ryegrass (Tet)
1	COMER	Timothy
0.5	ARCHIBALDI	Cocksfoot
0.5	PROTA WHITE	White Clover Blend

# CLOVER

## LEGUMES

White and red clovers both provide a good source of protein as well as high intakes, fixation of nitrogen and improved soils.

### WHY USE CLOVER?

- Rich in protein and minerals - excellent for finishing cattle and lambs
- Improves soil structure and drought tolerant with deeper tap roots
- Later growth provides valuable nutrition when grass growth starts to decline
- For grazing and silage - can increase yields by up to 15%
- Fixing up to 180kg N/ha (white) - 150-250kg N/ha (red) reducing the need for bought in nitrogen
- Very palatable encouraging high intakes, leading to higher liveweight gains and milk production
- Red clover can yield 10-14t DM/ha, and is particularly high in protein

### ESTABLISHING CLOVER

#### SEED RATES

##### WHITE CLOVER

In mixtures use 0.5-1 kg/acre

Overseeding 0.5-1kg/acre



##### RED CLOVER

In mixtures use 3 kg/acre

Monoculture use 6 kg/acre



- **White Clover:** Broadcast or drill    **Red Clover:** Drill
- Target pH of 6.2
- Sow 5–10 mm, sown into a warm soil above 10°C between April and August
- A clean, firm seedbed, ring-rolled prior to sowing
- Apply nitrogen up to 50kg N/ha (20kg N/ac) but not during the establishment period as clover is sensitive to nitrogen during this time

### OVERSEEDING CLOVER

Graze tightly and harrow before sowing to open up the sward, ensure soil is disturbed to allow good seed to soil contact. Broadcast the seed preferably, but avoid May and June when grass growth is most vigorous. Graze hard after 4-5 weeks for 3-4 days to keep competition plants to a minimum.

# CLOVER

## LEGUMES

Always maintain a soil pH of at least 6.2 and P & K indices of 2 for optimal clover content and health.



### MANAGING WHITE CLOVER

A perennial legume with a creeping growth habit, putting roots down at each node.

- Avoid excessive stolon damage from poaching
- Keep grass at 4–6 cm over the winter to protect stolons from frost damage
- If clover content is too high, use intensive grazing or cutting use to increase grass growth

### MANAGING RED CLOVER

Red clover only grows from its crown, which lies above the ground, so it's very important to protect this part of the plant. Persists for 3-4 years.

#### SILAGE

- For high-protein - cut when clover is in late bud, or early bloom for lower protein content
- Avoid crown damage by leaving a 7–8 cm stubble
- Take 2-3 cuts at 6–8 week intervals after a first cut
- Do not use a mower conditioner. Leave in wide swaths and wilt for up to 48 hours, turning the swath once. To reduce leaf shatter do not ted
- Graze swards lightly in autumn of the sowing year

#### GRAZING

Use aftermath to graze lambs or cattle. Avoid grazing in wet or damp conditions to limit bloat and reduce risk of poaching.

Breeding ewes should not be fed red clover 6 weeks either side of tupping



# CLOVERS & LUCERNE



## LEGUMES

Grazed or silaged, white and red clover both provide a good source of protein as well as increasing intakes, fixing nitrogen and improving soil.

### PROTA WHITE - WHITE CLOVER BLEND

PACK SIZES	VARIETY	SPECIES
5kg & 25kg	<b>10% s184</b>	Small leaf white clover
	<b>20% BARBLANCA</b>	Large leaf white clover
	<b>30% BUDDY</b>	Medium-small leaf white clover
	<b>40% DUBLIN</b>	Medium-small leaf white clover

A blend of white clovers which produces better animal performance, higher milk yields and better liveweight gains. Produces a more palatable pasture with higher digestibility, ideal for both cutting and grazing.

### PROTA RED - RED CLOVER BLEND

PACK SIZES	VARIETY	SPECIES
5kg & 25kg	<b>20% GARANT</b>	Red clover diploid
	<b>40% ROZETA</b>	Red clover diploid
	<b>40% GLOBAL</b>	Red clover diploid

A blend of red clovers which balances production through the growing season, while maintaining excellent persistency and disease resistance. Makes a high protein silage between 16%-20% compared with an average of 12% for just grass.

### PROTA DUET - RED AND WHITE CLOVER BLEND

PACK SIZE	VARIETY	SPECIES
5kg & 25kg	<b>40% PROTA WHITE</b>	White clover
	<b>60% PROTA RED</b>	Red clover

A unique mixture of red and white clovers, developed to meet the need for rapid nitrogen fixation to feed new leys. Sow 2.5kg/acre

## LUCERNE

PACK SIZE	VARIETY	SPECIES
25kg	<b>ARTEMIS</b>	Lucerne

Very good on drought prone soils. Sow 8-10kg/acre as a pure stand or 0.5-1kg/acre in a mixture.

# HERBS

## HERBAL LEYS

A multispecies mixture of legumes and herbs which can bring a wide range of benefits to forage, livestock health, soil fertility and structure.

### WHY USE HERBAL LEYS?

- Improves soil structure and fertility
- Provides resilience in dry periods
- Nitrogen fixation from legume species reduces reliance on fertiliser
- Extends the grazing season
- Improved content of vital minerals supporting better liveweight gains
- Sainfoin, Chicory and Birdsfoot Trefoil are considered to have anthelmintic properties, reducing the need for wormers



### ESTABLISHING HERBS

#### SUITABLE SOILS AND pH

Most herb and legume species can be sown in sand, loam or clay soils above pH6. However Sainfoin and Lucerne should only be sown in free draining soils with a pH of 6.2 or above. Red clover, Birdsfoot Trefoil and Alsike Clover can be established on heavier soils.

#### SOWING

Sow no deeper than 1cm into a clean seedbed with a fine tilth. Well consolidated seedbeds give better results.

#### WHEN TO SOW

Sow when soils are warm, mid April to late August, avoid sowing during peak grass growth periods in June as seedlings maybe smothered out.

#### MANAGEMENT

Stock can resume grazing the area after sowing, but must be removed 4-5 days after sowing, before new seeds germinate. A 5-6 week interval should then be left to allow the new seeds to establish before a light, brief graze to encourage tillering and to help control weeds.

After that be careful not to over graze, leaving a 7-10cm residual then rest for at least 20-30 days. Reduce preferential grazing by back fencing the stock every time they are moved.

**Sustainable Farming Incentive (SFI)** – rewards farming practices that help produce food sustainably and protect the environment.

**SAM3** – Multi Species Legume & Herb Mix for the SFI Actions For Soils  
5 Grass Species, 3 Legumes and 5 Herbs

SFI is a 3-year agreement made up of a choice of environmental land management actions you need to complete to receive payment.

SAM3 is to provide varied root structures to help improve and maintain the soil's structure, carbon, biology and fertility.

## SFI HERBAL LEGUME OVERSEEDING MIXTURE

5kg & 20kg pack

25%	Plantain
23%	Red Clover
22%	White Clover
5%	Alsike Clover
5%	Chicory
5%	Sheeps Burnet
5%	Sheeps Parsley
5%	Timothy
4%	Birdsfoot Trefoil
1%	Yarrow

Available without Chicory

Minimum overseeding rate  
7 - 10kg/ha (4kg/acre)

An overseeding mix to add to existing grass to meet the number of Legume and Herb species required for SAM3.

This should only be used for overseeding where there are at least 4 other existing grass species in the sward to meet SFI requirements as specified on the Government website.

This is an overseeding mixture, not a standalone SAM3 mixture.

We believe in providing a mixture that is not just going to meet the SAM3 requirements but will also produce a very productive sward that is beneficial on farm. This mixture has been formulated with 70% Perennial Ryegrass to achieve a high yielding sward, whilst sustaining the correct amount of legumes and herbs.

Sowing rate: 30-35kg/ha (12-14kg/acre)

Overseeding: 25-30kg/ha (10-12kg/acre)

## MULTI SPECIES LEGUME & HERB MIX (SAM3)

25%	Int Perennial Ryegrass (T)
25%	Late Perennial Ryegrass
20%	Late Perennial Ryegrass (T)
7%	Timothy
5%	White Clover
4%	Plantain
3%	Creeping Red Fescue
3%	Red Clover
2.5%	Chicory
2%	Alsike Clover
2%	Meadow Fescue
1%	Tall Fescue
0.3%	Sheeps Burnet
0.1%	Sheeps Parsley
0.1%	Yarrow

No Cocksfoot



70% Perennial Ryegrass  
Long term mix

## SFI SAM2 - MULTI-SPECIES WINTER COVER

The aim of SAM2 is to establish a multi-species cover crop over winter

A mix containing at least 2 species from these plant families:

- Brassica
- Grass/Cereal
- Herb
- Legume

Establish in time to cover soil during winter, which SFI defines as December, January and February. Suited for arable and mixed farming.

### CRIMSON CATCH

20kg pack  
Sow 30-35kg/ha (12-14kg/acre)

88%	Italian Ryegrass
12%	Crimson Clover

This is an example of a 2 species mixture for overseeding. Please ring to discuss other options

Please don't hesitate to call for further options 0800 023 4416

## GROWING FOR THE ENVIRONMENT

Establish an unsprayed cover crop following autumn harvesting of cereals, maize or horticultural crops where soil is ordinarily left bare or stubble retained.

Growing for the Environment is a grant scheme available to all eligible farmers in Wales. The scheme supports the growing and utilisation of crops, which can result in improvements in the environmental performance of a farm business. Look out for the new application window in 2024 on the Welsh Government website.

Other mixtures and straights are also available for this scheme, just contact us for more information.



### CYMRU GFE GREEN - No red clover or chicory

Sow 25kg/ha (10kg/acre)

10%	Intermediate Perennial Diploid
14%	Intermediate Perennial Tetraploid
10%	Perennial plus Festulolium
8%	Meadow Fescue
10%	Soft Leaved Cocksfoot
8%	Timothy
3%	Birdsfoot Trefoil
7%	Yellow Trefoil
5%	Small Leaf White Clover
5%	Medium Leaf White Clover
10%	Alsike Clover
2%	Sheeps Parsley
4%	Sheeps Burnet
4%	Plantain

Other compliant mixtures available

Complies with option 1,6 & 8 of the scheme

## LEGUME AND HERB RICH MIXTURES

Mixtures to meet the GS4 requirements of 5 grass species, 4 legumes and 4 herbs/wildflowers for the Countryside Stewardship Scheme

A superb source of nutritious forage enabling optimal animal performance, equally beneficial to soil restoration and building soil fertility and structure.

### SOWING AND MANAGEMENT

Soil temperature needs to be above 9°C, and pH6-8. Sow April to early August on land with a low weed burden. Establish into a fine, firm seedbed, rolling immediately at least twice to ensure good seed to soil contact.

After 6-8 weeks graze lightly to encourage tillering. Once established lightly graze in the first year, leave plenty of leaf on the sward to cover the ground. Best suited to a rotational grazing system in order to maintain the sward diversity.

If overseeding harrow to 70% bare soil, and sow at 12kg/acre, and roll at least twice.

### Legume & Herb Rich

(GS4, SAM3)

Sow 30kg/ha (12-14kg/acre)

35%	Perennial Ryegrass
25%	Creeping Red Fescue
10%	Festulolium
7%	Red Clover
5.6%	Sanfoin
5%	SSMG
5%	Timothy
3%	Alsike Clover
1.93%	Lucerne (Inoculated)
1%	Sheeps Burnet
0.5%	Birdsfoot Trefoil
0.5%	Plantain
0.25%	Yarrow
0.2%	Sheeps Parsley
0.02%	Black Knapweed

No Cocksfoot or Chicory

### Herbal Meadow

(GS4, SAM3)

Sow 30kg/ha (12-14kg/acre)

27%	Perennial Ryegrass
20%	Festulolium
13%	Cocksfoot
10%	SSMG
7%	Red Clover
6%	Sanfoin
5%	Timothy
5%	Lucerne
3%	Alsike Clover
1%	Fenugreek
1%	Chicory
0.7%	Plantain
0.5%	Birdsfoot Trefoil
0.5%	Sheeps Burnet
0.25%	Yarrow
0.05%	Sheeps Parsley

# SINGLE SPECIES HERBS

## STRAIGHT HERBS

Herbs are more drought resistant and provide a higher mineral content than pure ryegrass. Some also have anthelmintic properties.

### PLANTAIN - Perennial

Boost liveweight gain

PACK SIZE	SOWING RATE	SOW	USE
5kg /25kg	2kg/acre in a mix, 8-10kg pure stand	Spring & Autumn	60-90 days

Strong growth in spring and autumn providing a high protein content. Extremely palatable, high in calcium, copper, selenium and sodium. Withstands drought and high temperatures while tolerating frequent grazing. High in protein it provides a greater feed value than a ryegrass/clover mix, ideal for finishing lambs.

### CHICORY - Perennial

Long taproot, good for breaking through plough pans

PACK SIZE	SOWING RATE	SOW	USE
5kg /25kg	0.2-0.8kg/acre in a mix, 2kg pure stand	Spring & Autumn	60-90 days

A mineral rich herb with a long taproot, aiding drainage and root development. Produces significant yields of high protein forage, especially when mixed with red clover, which lasts more than one year, ideal for fattening lambs. Drought and frost tolerant with anthelmintic properties.

### VETCH - Annual

Highly productive and rich in protein

PACK SIZE	SOWING RATE	SOW	USE
25kg	8-10kg/acre in a mix, 16-20kg/acre pure stand	Spring & Autumn	70-100 days

Vigorous growth and winter hardy, Vetch will establish and grow well on most soil types, helping to maintain soil structure. Vetch can be utilised typically 70-100 days after sowing when 30-50% of the plants have flowered. Good resistance to cold.

# ENVIRONMENTAL

## ENVIRONMENTAL MIXTURES FOR ELMS

Environmental Land Management Schemes (ELMS) are changing in 2024, please ensure you read the most recent updates.

From this summer, the Sustainable Farming Incentive (SFI) and Countryside Stewardship Scheme (CSS) Mid Tier will effectively be combined, with a single application process and a rolling application window for both schemes. We can supply seeds for all schemes, the following are just a selection that are compliant at the time of this publication. Call us on **0800 023 4416** for further enquiries.

### SUSTAINABLE FARMING INCENTIVE (SFI)

SAM2	Multi Species Winter Cover Crops
SAM3	Herbal Leys
IPM2 (AB1)	Flower-rich grass margins, blocks or in-field strips
IPM3 (AB3)	Companion Crop on Arable and Horticultural Land
NUM2 (AB7)	Legumes on Improved Grassland
NUM3 (AB8)	Legume Fallow
AHL1	Pollen and Nectar Flower Mix
AHL2	Winter Bird Food on Arable and Horticultural Land

### COUNTRYSIDE STEWARDSHIP SCHEME (CSS)

AB1	Nectar Flower Mix
AB3	Beetle Banks
AB7	Whole Crop Cereals
AB8	Flower Rich Margins and Plots
AB9	Winter Bird Food
AB15	Two Year Sown Legume Fallow
AB16	Autumn Sown Bumblebird Mix
GS4	Legume and Herb rich swards

# FORAGE CROPS

## BRASSICAS & ROOTS

Highly productive, low input crops which should help to reduce bought-in feed costs, extend the grazing season and provide an excellent break crop.

These crops are relatively cheap to grow, offer forage when sufficient grass may be unavailable, and present an opportunity to break pest and weed cycles when grown between two crops of grass. As a general rule the longer the maturity period the more tolerant they will be to cold weather.

Root seeds grow readily in old turf which often harbours pests and weeds detrimental to a new reseed. They are high in dry matter and can increase animal performance as well as generating better soil structure and providing a cheap source of feed. If managed properly it's possible to get two grazings out of Turnips, Rape/Kale Hybrid and Forage Rape.

**SUMMER GRAZING:** Stubble Turnips, Grazing Turnips and Forage Rape will extend the grazing season.

**WINTER GRAZING:** Stubble Turnips, Kale, Swedes and Rape/Kale Hybrids.

Brassicas (Kale, Stubble Turnips, Turnips, Rape/Kale Hybrids, Swedes) should only be grown **once every 4 - 5 years** (drier areas) or **7 - 8 years** (wetter areas) to minimise the risk of clubroot.

### FEEDING

Introduce stock slowly on full stomachs, allowing 1–2 hours grazing and build up to full time access after 7–10 days feeding with ad-lib straw, silage or hay to prevent acidosis or bloat. Graze in long narrow strips to ensure all animals can graze at the same time and to minimise wastage. Provide minerals or administer boluses to stock.

Feed swedes to cattle with mature teeth, they are not suitable for broken mouthed sheep. Ewes in late pregnancy on root crops will need additional protein. Always ensure fresh water is available at all times.

# FORAGE CROPS

## PLANNING FOR BRASSICAS & ROOTS

Base your crop choice on the type of livestock, when the land is available and when the crop will be fed.

CROP	SOWING RATE/ACRE	READY IN	ME	CRUDE PROTEIN	D-VALUE
<b>STUBBLE TURNIP</b> <small>Quick growing</small>	2kg drilled 3kg broadcast	12-14 weeks	10-11	17-18%	69
<b>FODDER BEET</b>	40,000 seeds drilled	24-28 weeks	12.5-13	12-13%	78
<b>RAPE/KALE HYBRID</b> <small>Quick growing</small>	2kg drilled 3kg broadcast	12-14 weeks	10-11	15-24%	66
<b>KALE</b>	2kg drilled 3kg broadcast	16-20 weeks	10-11	16-17%	70-75
<b>FORAGE RAPE</b> <small>Quick growing</small>	3kg drilled 4kg broadcast	10-12 weeks	10-11	19-20%	65
<b>SWEDES</b>	100-325g	20 weeks	12-13	10-11%	82
<b>MAIN CROP TURNIPS</b> <small>Quick growing</small>	1 kg drilled 2kg broadcast	12-15 weeks	10-11	17-18%	68-70

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
STUBBLE TURNIP	Sowing												
	Feeding												
FODDER BEET	Sowing												
	Feeding												
RAPE/KALE HYBRID	Sowing												
	Feeding												
KALE	Sowing												
	Feeding												
FORAGE RAPE	Sowing												
	Feeding												
SWEDES	Sowing												
	Feeding												
MAIN CROP TURNIPS	Sowing												
	Feeding												



# STUBBLE TURNIPS 5kg, 10kg, 25kg packs

BRASSICA - Ready from 12-14 weeks onwards

High protein, making them ideal to fatten livestock, good early winter feed for sheep or cattle. Higher dry matter varieties are more winter hardy. Graze in situ.

Sow: April - Aug Drill: 2kg/acre Broadcast :3kg/acre



## BARKANT - Bulbing

A very vigorous diploid turnip, combines higher leaf production (50% of the bulb is above the soil surface), with high energy feed ideally suited for early winter feed for sheep and cattle. Has the potential to be grazed multiple times.



## SAMSON - Leafy

Large, tankard shaped root, very palatable to both sheep and cattle. High leaf to bulb ratio resulting in high levels of protein. Full leaved tetraploid bulbing variety with very good early vigour and good disease resistance.



## RONDO - Leafy

Green skinned variety suitable for sheep or cattle. Very leafy growth with excellent disease resistance that can be utilised from September to early February. Excellent root anchorage reduces wastage in the field.

## STAGGER SOWING IN LARGER AREAS

When planting a large acreage, it is advisable to stagger the sowing dates or plant two-thirds of the crop area in an early maturing variety and one-third with a late maturing variety, at the same time. Target pH 6.5

**FEEDING** - Graze in situ with fencing to prevent waste. Ensure access to run-back on grass, with hay/straw or silage on offer. Allow about 3 weeks to become fully adjusted to grazing and supply adequate mineral supplements.

**Bulbing Types** - Grow out of the ground, easily eaten, higher energy, more winter hardy

**Leafy Types** - Produce more leaf than bulb, higher protein but not as winter hardy

## STUBBLE TURNIP VARIETIES AVAILABLE:

Appin • Avalon (leafy) • Barkant • Delilah • Hector • Jupiter (leafy)  
Rondo (leafy) • Samson (leafy) • Skyfall • Tyfon (leafy) • Vollenda  
Please ring FORAGE LINE 0800 023 4416 for availability

# FODDER BEET 50,000 seeds/pack

MAIN CROP - Ready from 24-28 weeks

One of the highest yielding forage crops, a highly palatable, highly digestible feed and an excellent source of sugar energy. Strip graze or lift.

Sow: April - July Precision Drilled : 40,000 seeds/acre



Produces substantial yields and can carry a high stocking density in winter. The roots offer high energy and D value, while the leaf tops are higher in protein.

**Medium Dry Matter (12-15%)** varieties tend to have a higher percentage of root above ground and can be lifted with a top lifter with a relatively low dirt tare. These can be fed whole to stock or grazed in situ.

**High Dry Matter (16-20%)** varieties are more winter hardy and can be harvested later with a sugar beet harvester as they sit further in the ground. Due to the higher dirt tare and hardness of the root, these varieties may need to be chopped and washed before feeding. After wilting, the tops may be fed to stock and can contribute a further yield of 3-4 tonnes of protein-rich dry matter/ hectare.

## ROBBOS - Yellow root

Excellent performer with more leaf protein for a better balanced diet, along with consistent high DM yield.

## FELDHERR

Large leaves and grows 50% out of the ground, providing additional feed. Huge fresh yield, ideal for grazing in situ.

## BANGOR - Orange/Yellow root

Most of the root is above ground for high quality for grazing in situ. Medium DM with a very high yield of 105%.

## ENERMAX - Rhizomania tolerant

High yielding with a smooth skin for clean lifting. Clean, white, smooth-skinned root. Will need chopping before feeding.

## FODDER BEET VARIETIES AVAILABLE:

**HIGH DM:** Blizzard • Brick • Delicante • Enermax • Fosyma • Magnum Tadore • Tarine

**MEDIUM DM:** Bangor • Blaze • Robbos

**LOW DM:** Feldherr • Jamon • Monro

Some varieties available treated with **Tachigaren + Force 10**

Please ring FORAGE LINE 0800 023 4416 for availability

# RAPE/KALE HYBRID 5kg, 25kg packs

BRASSICA - Fast growing! Ready from 12-14 weeks

A cross between kale and rape resulting in fast establishment like forage rape with the winter hardiness of kale. High protein, ideal for fattening. Graze in situ.

Sow: April - Aug Drill: 2kg/acre Broadcast: 3kg/acre



**INTERVAL**

High yields providing high protein. Disease resistance and palatability makes it ideally suited for finishing lambs or for outwintering systems.



**SWIFT**

Ready in 8 weeks

Very aggressive growing variety that provides grazing options from July through to January. It has excellent energy levels and good late season yield potential.



**SPITFIRE**

Very low Dry Matter stem producing high quality forage. Medium-tall variety suitable for planting in spring or autumn. Very good regrowth potential.



**REDSTART**

Grows quickly and vigorously for late sowing and provides good cover. High energy and good protein. Good resistance to bolting.

## Hybrids are very vigorous and grow rapidly with significant regrowth.

If planted early enough there's a possibility of 2-3 grazings if the plant crowns aren't damaged or overgrazed, and temperatures don't drop too low. The rape/kale hybrid provides very high nutritional value both in terms of energy and digestible proteins. It is ideal for winter grazing since it's fast-growing, vigorous and winter hardy. Strip grazing will cut down on wastage in the field. Lambs get to required weights quicker which helps to prevent the need to finish with concentrates or sell as stores, whilst also being an excellent break crop.

**RAPE/KALE HYBRID VARIETIES AVAILABLE:**  
Interval • Redstart • Swift • Spitfire • Unicorn

Please ring FORAGE LINE 0800 023 4416 for availability

# KALE 1kg, 5kg packs

BRASSICA - Cold tolerant! - Ready from 22-30 weeks

Excellent for utilising in winter to extend grazing. Most varieties are winter hardy and can be grazed through to April. Higher yielding than rape/kale hybrids.

Sow: April - July Drill: 2kg/acre Broadcast: 3kg/acre



Kale provides the equivalent of early spring grass in terms of quality with a high level of crude protein (16-18%), which helps to promote animal growth. The correct variety should be selected with thicker high yielding marrow stems for cattle grazing and shorter varieties with higher leaf to stem ratio suited to both cattle and sheep. It is a hungry crop, and it will thrive from being well fed throughout the season with a split nitrogen application of 65% at sowing and 35% when the crop is around 15cms tall.

**CLUB ROOT RESISTANT - Cattle**

## CALEDONIAN



High yielding marrow stem type with club root tolerance. Tall variety recognised for its excellent germination and vigour. Used for dairy and beef cattle.

## KEEPER



Shorter, leafy kale variety with excellent vigour and germination. Good leaf cover and lodging resistance. Ideal for finishing lambs and a high quality winter feed.

**CLUB ROOT RESISTANT - Cattle**

## BOMBARDIER



Can help maximise feed potential through its improved stem utilisation. Its feed quality has also been enhanced to ensure good utilisation.

## MARIS KESTREL



Palatable kale variety ideally suited to sheep. Shorter growing and produces a narrower stem with excellent leaf to stem ratio and good D Value.

## KALE VARIETIES AVAILABLE:

Astera • Bombardier • Caledonian • Golden Eye • Gruner Angelita  
 Keeper • Maris Kestrel • Pinfold • Proteor • Thousand Head

Please ring FORAGE LINE 0800 023 4416 for availability

# FORAGE RAPE 2kg (Trtd) 5kg, 10kg & 25kg

**BRASSICA** - Ready from 12-14 weeks

A fast growing leafy catch crop, high in protein, excellent for finishing lambs. Reasonably winter hardy. Longer lasting than stubble turnips. Graze in situ.

**Sow:** May- August **Drill:** 2-3kg/acre **Broadcast:** 4kg/acre



**BARCOLI**

Medium/tall, leafy high yielding variety. Good regrowth potential with high protein content. Flexible sowing period, for a late summer feed or winter grazing.



**HOBSON**

Can be grazed as late as February. Ideal for finishing lambs, and has excellent resistance to powdery mildew which can make some crops unpalatable.

All the grazed plant is above ground so utilisation is higher and the leaves are more frost tolerant for autumn/winter feeding. Since it's leafy, and does not need time to bulb up, the livestock will utilise it quickly after a spring sowing, making way to follow with an autumn sown cereal or grass ley. Forage rape is very palatable and will grow on all soils and more exposed sites, The main difference is that it is bulb free, which makes rape a better choice for older ewes. Also ideal for fattening lambs or flushing ewes.

## FORAGE RAPE VARIETIES AVAILABLE

Barcoli • Emerald • Hobson • Rampart • Sparta • Stego

Please ring FORAGE LINE 0800 023 4416 for availability



**EMERALD**

Well known variety producing rapidly establishing, medium/tall leafy plants. High in protein and easily digestible, remaining palatable well into the winter.



**RAMPART**

This is a new generation of forage rape, it has been bred with feed quality enhancements, high yield potential and winter hardiness.

# SWEDES & TURNIPS

**SWEDE** - Ready from 20 weeks. Winter hardy, highest energy rootcrop

**TURNIP** - Ready from 12 -15 weeks. Yield and ME higher than stubbles

## SWEDES

Ideal for finishing lambs with high energy and yields. Invitation is the highest DM variety for better winter hardiness and more suitable for feeding Jan-Feb. Medium DM varieties are better suited to feed Nov-Jan. Airlie has a lower DM suited to feed Oct-Dec. Strip grazed or lifted.

**Pack sizes:** Grade H 500g, Natural 1kg

**Sow:** April-early June

**Precision drill:** (Grade H) 150g - 350g/acre

**Direct drill:** 0.5kg - 1kg/acre **Broadcast:** 2kg/acre



## SWEDE VARIETIES AVAILABLE (Grade H & Natural)

Airlie • Gowrie • Kenmore • Lomond • Invitation • Magres  
Marian • Triumph



## MAINCROP TURNIPS

Have the advantage over Swedes and Kale as they establish more vigorously and reach maturity faster. They are slower growing than stubble turnips but more winter hardy, and generally yield about a third more. Massif is very winter hardy and high yielding. Green Globe is faster maturing but not as high yielding or hardy.

Grazed in situ

**Pack sizes:** 1kg, 2kg, 5kg Treated/Untreated

**Sow:** May - June

**Direct drill:** 1kg/acre **Broadcast:** 2kg/acre

## MAINCROP TURNIP VARIETIES AVAILABLE

Green Globe • Massif

Please ring FORAGE LINE 0800 023 4416 for availability

# FORAGE MIXTURES

## REDUCE THE RELIANCE ON BOUGHT IN FEED

Forage crops offer high yielding, high quality feed in months when grazed grass is limited. A low cost winter feed with high levels of nutrition.

### •SHEEP GRAZE - Pack size 12kg

Forage Rape, Stubble Turnip, Kale - Sow at 4kg/acre

### •CATCH CROP SHEEP FEED - Pack size 12kg

Forage Rape, Stubble Turnip, Perennial Ryegrass - Sow at 3kg/acre



### •CC - Pack size 20kg

Italian Ryegrass, Forage Rape, Green Globe Turnip - Sow at 9kg/acre

### •CD - Pack size 20kg

Italian Ryegrass, Forage Rape - Sow at 9kg/acre

### •RAPID ROOT (SAM2) - Pack size 10kg - Pre Christmas use

65% Forage Rape, 30% Stubble Turnips, 5% Kale - Sow at 2.5-3.5kg/acre

### •WINTER GRAZE (SAM2) - Pack size 10kg - Post Christmas use

60% Stubble Turnips, 35% Forage Rape, 5% Kale - Sow at 2.5-3.5kg/acre



### •SUMMER MULTIGRAZE - Pack size 2.5kg

Hybrid Brassica, Forage Rape, Leafy Turnip, Kale - Sow 2.5kg/acre

### •AUTUMN MULTIGRAZE - Pack size 2.25kg

Hybrid Brassica, Leafy Turnip, Kale - Sow 2.25kg/acre

### •WINTER FEED - Pack size 2kg

Hybrid Brassica, Kale- Sow 2kg/acre

### •LATE SOWN WINTER FEED - Pack size 2.25kg

Hybrid Brassica, Leafy Turnip, Kale- Sow 2.25kg/acre



### •AUTUMN KEEP - Pack size 3kg

Forage Rape, Kale, 2 varieties Stubble Turnip - Sow 3kg/acre

### •MEAT MAKER - Pack size 3kg

Forage Rape, Stubble Turnip, Kale - Sow 3kg/acre

### •LATE LAMB - Pack size 9kg

Forage Rape, Italian Ryegrass, Stubble Turnip - Sow 7kg/acre



# EQUINE MIXTURES



## GRASS FOR HORSE PADDOCKS

Barenbrug equine mixtures are designed specifically for horses, meeting most of their feed requirements

### GENERAL PURPOSE - Pack size:10kg Sow 15kg/acre



Hardwearing general purpose mixture designed to withstand the pressures of equestrian use and provide good quality grazing for horses. Contains grass varieties that have been specifically selected for roughage and low fructan content, reducing the risk of laminitis. This mixture produces a dense turf, strong rooting system, making the sward hardwearing and persistent. Yields good levels of effective roughage, ideal for a fit and healthy equine gut.

% in mix	10kg packs
70%	Perennial Ryegrass
16%	Strong Creeping Red Fescue
8%	Meadow Fescue
6%	Timothy

### TRADITIONAL MEADOW - Pack size:10kg Sow 15kg/acre



Formulated to recreate the nutritional characteristics of a natural habitat. This mixture is ryegrass-free with less aggressive species, able to tolerate horses low grazing heights and is high in fibre for gut health.

% in mix	10kg packs
25%	Tall Fescue
25%	Strong Creeping Red Fescue
20%	Meadow Fescue
15%	Timothy
15%	Smooth Stalked Meadow Grass

HF Seeds mixtures have been helping UK and Irish farmers to maximise their livestock production for over 60 years.

Generations of farming families trust the HF Seeds brand as the number one choice. Specific grass mixtures designed to suit both the English, Welsh and Scottish climates.

The following is a just selection from HF SEEDS, we can offer their full range of forage seed so please just contact us if you have any questions.



### HF 11 (Scotland) GRASSMAKER (Eng & Wales) - 20kg pack

The top selling mixture throughout the UK and Scotland! Dual purpose, 4-8 year mixture with excellent persistency ensured by top class sward density and winter hardiness. Available with or without clover and also as a mixture including 10% Red Clover to produce higher protein silage.

Medium term



### HF PD (Scotland) EVERGREEN (Eng & Wales) - 20kg pack

Long term 8+ years, dual purpose mixture that will produce plenty of early grass even in the harsher areas. A very persistent and winter hardy mix which contributes to its longevity, producing quality forage for many years. Includes high levels of white clover and Timothy.

Long term



### SUPER SILAGE (S) MASTER SILAGE (E & W) - 20kg pack

Specifically designed for 3-5 cuts, high yields at first cut and subsequent cuts. Designed for fast regrowth and quality, leafy silage. High sugar and no Timothy ensures top quality silage. Good early spring growth and contains a high proportion of High FIBER ENERGY varieties.

Medium term

### HF YOUR COUNTRYSIDE

Environmental, Game Cover, Fodder and Cover Crops.



### HF GRASS AND FODDER CROPS

Grass Mixtures, Specialist Mixtures and Root Crops.



England & Wales



Scotland



### KALE - 1kg, 5kg packs

The biggest yielding leafy brassica. Good frost tolerance but must be looked after with good fertility, weed and pest control.

- **THOUSANDHEAD** (Cattle & Sheep)
- **GRUNER ANGELITA** (Cattle)
- **KEEPER** (Sheep)
- **PROTEOR** (Cattle & Sheep)



### SWEDES - 1kg (Natural) 500g (Grade H) packs

Full season crop that will last until late March/early April. Fed in situ or lifted and stored in a clamp. High ME feed, good for finishing lambs or winter maintenance.

- **AIRLIE**
- **LOMOND**
- **GOWRIE**
- **MARIAN**
- **KENMORE**



### STUBBLE TURNIP - 10kg, 25kg packs

Fast growing catch crop ready to start grazing in 10-12 weeks. Provides feed through autumn and winter with a flexible sowing period, helping to reduce winter feed costs.

- **VOLLEND A** (Bulb)
- **AVALON** (Leafy)
- **JUPITER** (Leafy)
- **TYFON** (Leafy)

## SOWING FUTURE SEEDS

Breeders of the high performance ‘Aber’ varieties

Germinal is a sixth-generation family company with a proud history. Ongoing investment in innovation, research and knowledge sharing is at the forefront of the company. Their expertise is helping to fuel the future of agriculture by always helping customers to be one step ahead.

The following is a just selection from Germinal, we can offer their full range of forage seed so please just contact us if you have any questions.

### MARIS KESTREL KALE 5kg, 25kg packs

A highly digestible kale variety, the unrivalled market leader because of its outstanding performance. Produces excellent leaf-to-stem ratio and high whole plant D-value. Good palatability drives intakes with good resistance to lodging and winter hardiness.



### REDSTART HYBRID BRASSICA 5kg, 25kg packs

A kale/rape cross taking 8 weeks to mature. High quality, good yielding, winter hardy and the option to multi graze. Suitable for grazing from July to the end of January depending on the sowing date. High energy for cattle and sheep. Fast growth offers multiple grazing opportunities.



### LATE SOWN WINTER FEED - 25kg pack

Fomulated for late sowing to supplement forage during the winter for cattle and sheep; Sow from July to August, graze within 8-10 weeks. Feed from November to February. A mixture of Swift, Redstart (Brassica), Appin (Stubble Turnip) and Maris Kestrel Kale. Sow at 2.25kg/acre.



## WE CAN SUPPLY ALL GERMINAL SEED PRODUCTS

For any enquiries please call us on 0800 023 4416

Germinal have put together three bespoke specialist mixtures with variations exclusively for Carr’s Billington that are very competitively priced. Please don’t hesitate to ring for prices.

### GERMINAL DUAL PURPOSE 14kg

2	AberZeus	PRG Intermediate Diploid
2.5	AberWolf	PRG Intermediate Diploid
1.5	AberBann	PRG Late Diploid
1	AberLee	PRG Late Diploid
2.5	AberSpey	PRG Intermediate Tetraploid
2.5	AberGain	PRG Late Tetraploid
1	Comer	Timothy
1	AberPasture	White Clover

Good early season growth

Also available with: • No Clover • No Timothy • Just Ryegrass

### GERMINAL SPECIALIST SILAGE 14kg

3	AberZeus	PRG Intermediate Diploid
3	AberWolf	PRG Intermediate Diploid
3	AstonEnergy	PRG Intermediate Tetraploid
3	AberClyde	PRG Intermediate Tetraploid
1	Comer	Timothy
1	AberDairy	White Clover

5+ years intensive silage

Also available with: • No Clover • No Timothy • Just Ryegrass

### GERMINAL ROTATIONAL GRAZING MIX 14kg

5	AberBann	PRG Late Diploid
3	AstonEnergy	PRG Intermediate Intermediate Tetraploid
5	AberGain	PRG Late Tetraploid
1	AberDairy	White Clover

Also available with: • No Clover



## HOME GROWN FEEDING SOLUTIONS

Forage solutions for all farming systems

Limagrain's range is the result of a robust breeding programme, active partnerships with growers, in-house knowledge built through experience across the globe and a superior understanding of plant genetics.

The following is just a selection from LIMAGRAIN, we can offer their full range of forage seed so please just contact us if you have any questions.



### FODDER BEET - 50,000 seed units

Huge yields, high energy feed, palatable and nutritious. Avoid lifting too early, continues to grow until the end of October.

- FOSYMA •BRICK •TADORNE •TARINE
- BLIZZARD •ROBBOS •FELDHERR •BLAZE •KYROS



### KALE - 5kg, 2kg packs

Higher yields than rape/kale hybrids, excellent crude protein, outwintering systems and flexible utilisation period.

- |                |             |             |
|----------------|-------------|-------------|
| Cattle:        | •BOMBARDIER | •CALEDONIAN |
| Sheep & Lambs: | •KEEPER     | •PINFOLD    |



### FORAGE RAPE & HYBRIDS - 25kg, 5kg, 2kg packs

Fast growing leafy catch crop, high protein, good for finishing lambs, longer lasting than stubble turnips, flexible sowing period.

- INTERVAL •UNICORN (Rape/Kale hybrid)
- RAMPART •HOBSON



## WE CAN SUPPLY ALL LG SEED PRODUCTS

For any enquiries please call us on 0800 023 4416



### SKYFALL Bounce Back Brassica - 2.5kg packs

The perfect answer to ensuring a nutritious forage crop is available for grazing sheep and cattle in summer through to autumn. Ready to graze in 5-7 weeks. Strip graze to approximately 10cm, the regrowth usually takes around 6-8 weeks. Has the potential to provide 3 grazings when sown in April/May and tolerates dry soil conditions. Sow at 5kg/ha (2kg/acre)



### STUBBLE TURNIPS - 2kg, 5kg, 25kg packs

Fast growing catch crop, providing autumn or winter feed, which is economical to grow. Offers flexible sowing options.

- RONDO •SAMSON



### SWEDES - 1kg (Natural), 500g (Grade H) packs

Excellent high energy winter feed, high dry matter, low production costs. Precision drill, direct drill or broadcast.

- INVITATION (high DM) •GOWRIE (medium DM)
- LOMOND •MAGRES (low DM)



### TURNIPS - 1kg, 5kg packs

Faster growing than swedes, but slower than stubble turnips. A good option if it's too late to sow swedes. Very palatable and easy to digest fodder, excellent for finishing lambs. Economical to grow as an autumn or winter feed.

- MASSIF •IMPERIAL GREEN GLOBE

# GAME COVER

## GAME COVER STRAIGHTS AND MIXTURES

Perfect for providing cover for arable land during the winter months, as well as providing nutritious seeds for game and small birds

We supply an extensive range of Game Cover & Feed Seed Mixtures, Straights, Long Term Seed and Game Maize. Mixtures can extend the utilisation period, help to attract and hold specific types of game and provide feed and cover where both are required.

STRAIGHTS	SOW	DURATION yrs	SOWING RATE/ha
Game Maize	April-June	1	40
Kale	April-June	2	5 - 7.5kg
Forage Rape	May-July	1	6-10kg
Hybrid Brassica	July-August	1	6-10kg
Millet	April-June	1	25kg
Triticale	March-April	1	125kg
Borage	April-June	1	25kg
Quinoa	April-May	1	10kg
Phacelia	April-August	1	10kg
Buckwheat	April-May	1	50kg
White/Brown Mustard	May-Sept	1	12kg
Fodder Radish	April- Sept	1	12.5kg
Linseed	April-June	1	50kg
Reed Canary Grass	Mid April-May	7+	6kg
Perennial Chicory	May-June	3	5kg



### GAMECOVER MIXTURES

Many more mixtures are available

<b>SETTER</b> - Winter holding	2yrs	Mustard, Sweet Clover, Linseed, Maize, Kale, Buckwheat, Dwarf sunflower
<b>SPANIEL</b> - Recovery	1yr	Carbon, Mustard, Interval Rape/Kale, Fodder Radish
<b>JACK RUSSELL</b> - Wild bird seed mix	1yr	Spring Triticale, Millet blend, Fodder Radish, Dwarf Sorghum, Dwarf Sunflower, Linseed
<b>COCKER</b> - Driving Cover	2yrs	Caledonian Kale, Mustard, Fodder Radish, Linseed

# SOWING RATES

## SOWING RATES AND TIMES

A quick and easy reference for sowing rates and times.

SEED	SOWING RATE kg/acre	Days to grazing	Sow in (avoid dry conditions)
MEGA GRASS MIXTURES Full reseed	14kg		April-Aug/Early Sept
MEGA PATCH/RESTORE Overseeding	10kg		April-Aug/Early Sept
WHITE CLOVER With grass	0.5-1 kg		April-August Soil 8°C
RED CLOVER With grass	2-3 kg with grass, 5kg Pure Stand		April-August Soil 8°C
LUCERNE	8-10kg/acre 0.5-1kg/acre in a mix		April-August
TONIC PLANTAIN	2kg in a mix	60-90	April-Aug
CHICORY	0.2-0.8kg/acre in a mix	100-112	May-July
SAM3	12-14kg/acre	100-112	May-July
GS4	12-14kg/acre	42-56	April-August
STUBBLE TURNIPS	3kg Broadcast, 2kg Drilled	60-100	April-August
FODDER BEET	40,000 seeds	160-200	April-May
RAPE/KALE HYBRID	2kg Drilled 3kg Broadcast	90-120	April-August
KALE	2kg Drilled 3kg Broadcast	150-220	April-Early July
FORAGE RAPE	3kg Drilled 4kg Broadcast	90-110	May-August
SWEDES	100-325g	170-250	Early May-Mid June
TURNIPS	0.2-0.3kg Drilled 0.75kg Broadcast	60-100	May-July
EQUINE	15kg		April-Aug/Early Sept
GREEN VELVET	25g/m2 Overseed 35g/m2 Reseed		April-September
WILDFLOWERS	2g/m2 Pure Stand 3g/m2 80:20 Grass:Flower		March-September



# WILDFLOWERS



# GREEN VELVET LAWN



## FLOWER MIXTURES

Two ranges of flower mixtures available for creating attractive spaces and a strong visual impact

Sow when the soil is above 10°C late March-May or August-September. Seed has to be sown on bare soil that has been worked to create a surface tilth. Rake/harrow then roll to firm up the seedbed

### PROFLORA - 80:20 Grass:Flowers for specific environments

Pro Flora 1	Cornfield Annuals	Pro Flora 7	Hedgerow & Light Shade
Pro Flora 2	Acid Soils	Pro Flora 8	General Purpose
Pro Flora 3	Damp Soils	Pro Flora 11	Woodland and General Shade
Pro Flora 4	Calcareous Soils	Pro Flora 12	Water Margins and Pond Edges
Pro Flora 5	Wet Soils	Pro Flora 15	Pollinator
Pro Flora 6	Dry Soils	Pro Flora 110	Economy General Purpose + Annuals
Pack sizes: 1kg (200m <sup>2</sup> ) + 10kg (2000m <sup>2</sup> )		Sowing rate 5gm <sup>2</sup> (20kg/acre)	

**PRO FLORA MAINTENANCE - First year:** Cut 5-7cm in March/April, then every 2 months or when the sward reaches 15cm. Remove all cuttings.  
**2nd year onwards:** Cut in March/April then after flowering Sept/Oct, remove all cuttings.

### COLOUR BOOST - 100% flowers.

*CARNIVAL	Provides a dazzling display with a long flowering period
FLORAL CARPET	Lower growing annuals to recreate a summer meadow
SKYSCRAPER	Taller growing species
HONEY BEE AND BUTTERFLY	A mix of flowering species popular with pollinators
BLUSH	A warm mix of pale pink to deep red annuals
CLASSICAL	Deep beautiful blues and pure whites
CHAMELEON	Fantastic range of colour throughout the season
Pack sizes: 1kg (330m <sup>2</sup> - 200m <sup>2</sup> )	
Sowing rate 3-5gm <sup>2</sup> (20kg/acre)	



\*CARNIVAL is also available in a smaller 50g (10m<sup>2</sup>) tin at your local Carr's Billington store

## FOR EVERY LAWN

Different seeds for creating new lawns, overseeding or repairing worn patches. Available in four different sizes to suit your job.

### ALL ROUNDER

A multipurpose, hardwearing grass seed that is ideal for creating new lawns, overseeding or repairing worn patches. Great for an everyday lawn for the rough and tumble of family use, which withstands heavy foot traffic. The rapid germination and establishment along with attractive appearance make this a great all-rounder.

### ACTION HERO

A very hardwearing mixture that contains tough wearing grasses, ideal for playing areas with high traffic. High levels of perennial ryegrass in this mixture give it substantial ability to withstand wear and tear so is ideal for areas of the garden that are used frequently.

### SHADY ONE

A high quality grass seed mixture that is specifically formulated to create an excellent lawn in shady places. Ideal for areas under full or partial shade, THE SHADY ONE works near fences, under obstacles such as trampolines or anywhere the sun doesn't reach.

### PERFECTIONIST

A luxury traditional lawn seed mixture for a very fine-leaved and dense lawn, offering a high quality and beautiful looking lawn. With improved tolerance to common lawn diseases, this is ideal for the traditional ornamental lawn.

Available in four sizes:

450g CARTON	15m <sup>2</sup>
1.5kg POUCH	50m <sup>2</sup>
10KG Bag	285m <sup>2</sup>
20KG Bag	570m <sup>2</sup>
Sowing rate: 25-35g/m <sup>2</sup>	
Sowing depth 8-12mm	



CARNIVAL adds a boost of colour to your garden providing a dazzling display of long lasting flowers Available in a 50g (10m<sup>2</sup>) tin from your local Carr's Billington store.

# OVERSEEDING GUIDE

Overseeding is an effective solution to improve old pasture by increasing yield and quality.

- 1 SOIL TEST** at least 6 months before. Check pH is 6-6.2 and P and K indices are 2- or above. Avoid sampling 6 weeks after applying manure, depending on the manure type.
- 2 CHECK COMPACTION** using a spade to chop a square in the grass about 30cm deep. On one side of the square put the spade in and prise out the full sod. If the grass roots aren't penetrating down further than 10cm then you've got compaction. Another sign is if the soil is bone dry 7-15cm down. Address this if compaction is over 10cm on clay soil, sward lift or mole plough. On lighter land just sward lift.
- 3 WEED GRASSES** if they make up more than 30% of the sward, harrow hard to remove them. With a sward of more than 70% weed grasses the best option is to reseed the sward.
- 4 CONTROL PERENNIAL WEEDS** before seeding with a selective herbicide.
- 5 TIGHT GRAZE** with sheep or cut. Afterwards scarify using a spring tine harrow to open the sward up. This removes dead thatch and shallow rooted weed grasses. Ensure the tines work the top 1cm to create a tilth. Do not spread slurry or fertilise before overseeding.
- 6 ROLL** the sward to ensure good seed/soil contact to conserve moisture. Good seed bed consolidation helps germination,
- 7 CONTROL WEEDS** after 4-6 weeks of sowing.
- 8 GRAZE LIGHTLY** when the seedlings are 10cm high and continue at frequent intervals until the plants are well established.



## MEGA RESTORE & BARMIX RENEW

Specially formulated for overseeding. Tetraploid seed establishes quickly to outcompete weed grasses.

# SWARD MANAGEMENT

Knowing when to graze grass and for how long requires careful judgement, visual checks of tillers and grass coverage.

## THE FIRST 12 MONTHS ARE CRITICAL!

### FIRST GRAZING

- Don't graze too soon. The "pluck test" is a guide indicating the sward can be grazed - grasp the ryegrass seedling firmly between the thumb and forefinger, then tug in a single, quick movement (to mimic an animal biting). If the leaves break off and the roots stay in the ground, the pluck test is passed.
- First grazing is to stimulate tillering and get light into the base of the sward.
- Grazing must be light, use sheep or calves and ensure that 4-5cm of stubble is always left, allowing the grass to recover faster.
- In autumn the plant is directing energy to the root system. The more green material it has after grazing, the quicker the plant can recover and continue putting reserves into the root system aiding the overall PERSISTENCE.

### FIRST CUTTING

- On first cut leave 8-12cm stubble, this will allow regrowth from live leaves.

### MANAGING FOR SUCCESS

- DON'T use new pastures over winter as they are most susceptible to damage, reducing DM yield, ground cover and overall persistency.
- When budgeting inputs, look after new leys first in terms of fertiliser and sprays.
- Pure grazing is always better in the first year to encourage tillering.
- Timely N applications are as important for the new swards as the clover will not contribute at this point. Nitrogen assists with tillering of ryegrass plants as well as overall health.
- Application of P & K in the seedbed are beneficial especially where soil indices are below Index 2.



## THE WIDEST RANGE OF PRESCRIPTION FERTILISER

An infinite range of prescription blended compound fertilisers formulated specifically to match your particular soil and crop nutrient requirements.

### Applying the wrong fertiliser results in the most expensive fertiliser

Providing targeted nutrition to match your soil and crops is the most important aspect of your fertiliser investment. Origin **NUTRI-MATCH** offers an unlimited choice of fertiliser analyses, made with up to 14 essential nutrients.

NUTRI-MATCH prescription fertiliser	Complex compound fertiliser
✓ Infinite range of analyses	✗ Usually limited to 10-15 analyses
✓ Choice of up to 14 essential nutrients	✗ Typically contain only 3-6 nutrients
✓ Exact match to soil and crop needs across multiple nutrients	✗ Very unlikely to give a match to soil and crop nutrients
✓ No over or under supply of nutrient	✗ Costly over/under supply adversely affecting yield and crop quality

### Know your soil

With current data from the Professional Agricultural Analysis Group (PAAG) showing only 9% of UK soils analysed are at target indices for both P and K, there is a clear need for more targeted nutrition. Our extensive range of soil test options ensures you remain compliant with regulations and helps you assess your fertiliser requirement not just in terms of pH, P and K but a whole raft of other essential nutritional requirements such as sulphur, sodium, selenium, essential to crop viability and livestock performance.



# RHIZA

## SOIL AND INPUT MANAGEMENT PLATFORM

Carr's Billington and RHIZA have teamed up to offer this fully integrated digital service to help you manage your soils.

### Grow more and better quality grass for your livestock, reducing fertiliser and feed costs.

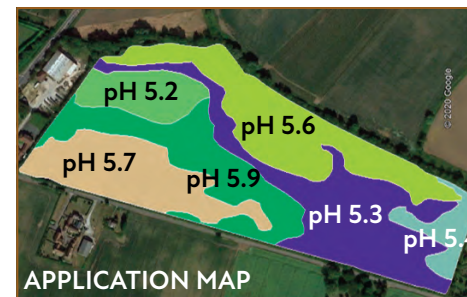
RHIZA works by mapping out all your field and soil information in one place. Creating a better understanding of your soil requirements to improve performance, yield, nutrient availability, organic matter, biodiversity, and quality. Easy to follow visual results can be used to optimise the use of inputs.

Soil samples can be taken across the whole field or fields can be split up into smaller zones by Electrical Conductivity scanning and then each individual zone can be sampled (fields need to be over 10 acres). This allows variable rate spread plans to be created and each individual zone can be treated accordingly, reducing inputs where needed.

Results are uploaded onto the RHIZA **Contour** online platform, highlighting any deficiencies on the whole fields and/ or zoned areas. Displayed in a table format or colour coded visual images. Using the results a variable rate spread plan for seed, nutrient or lime can be created helping to target applications.

All field applications including slurry, FYM and fertiliser can be uploaded onto Contour which allows a Fertiliser Plan and/ or a Nutrient Management Plan to be created. This maximises the use of nutrients and keeps you compliant.

GPS tagged photos with notes for evidence for your SFI or CS scheme can be uploaded and stored on the platform which are easily accessible.



### EXAMPLE OF ZONING MAP

#### IDENTIFYING pH

Whole field application = 95T

Variable rate lime application = 39T

For more information

Tel: 07471 250426

Email: forage@carrs-billington.com

# MACHINERY

## CARR'S BILLINGTON MACHINERY

Supplying market leading agricultural machinery and equipment



### New Machinery and equipment

Supplying new agricultural machinery and equipment from market leading manufacturers including Massey Ferguson, Krone, Ovlac, Weidemann, Horsch, Broughan, Teagle, Yamaha, Stihl & many more.

**Used Machinery** - Supplying a wide variety of premium used machinery and equipment across the North of England, Southwest Scotland and beyond.



## The Ultimate Grassland Overseeder



Guttler Style Packer

**Narrow row spacing**  
Provides the crop with higher competition against weeds.

**Moore Coulter System**  
Infinitely adjustable tungsten tipped coulters, providing superior wear rates. It is more common for the discs to wear out before the coulters.

**Rubber Arm Suspension System**  
If the disc and coulter encounter a larger stone or obstacle the whole arm assembly will quickly release.

**Hydraulic Rear Packer**  
Providing precise drilling depth adjustment and coulter pressure.

# SILAGE ADDITIVE

## FOR OPTIMAL SILAGE QUALITY

Preserves vital nutrients, stabilises crops with less than ideal moisture levels, minimises or prevents yeast & mould spoilage, keeping the silage face stable.

The Volac range of Ecosyl silage additives is effective in maintaining the nutritional quality of silage, whether clamp, big bale, maize or whole crop. No silage is ensiled and consumed with 100% performance, so to reduce and minimise any losses will greatly improve the impact on costs and efficiency. Ecosyl has been proven to significantly enhance silage fermentation, backed by more independent research than any other additive.



### Ecosyl benefits include:

- Increases true protein in silage by 3.5%
- Proven to increase Digestibility leading to increased Dry Matter intakes and improved animal performance
- An increase of 1.2 litres/day in milk yield
- A 15% increase in Live Weight Gain

Lallemand Animal Nutrition has developed a range of silage additives to address the specific challenges faced in each crop at ensiling. Combining a powerful mix of bacteria and enzymes increases fibre digestibility whilst releasing sugars to fuel the fermentation.

- A faster and efficient initial fermentation
- Stable clamp which can be opened earlier
- Increased aerobic stability after opening
- Lower dry matter losses
- Less heating so increased feed value
- Higher true protein retention
- Improved fibre digestibility

Baler's Choice Preservative is a gentle buffered propionic acid combined with citric acid, producing greener, sweeter smelling hay.

# WEED CONTROL

## NUFARM - Forage friendly weed control

Ideal for silage & hay fields, grazing fields, horse pasture and CLOVER KIND options too.



How much grass you grow determines how much stock you can carry, and weed control is essential to the effective management of productive grassland. Better grassland production means higher stock numbers, higher yields and higher profit.

Grass Type	Clover	Weeds	Product	Application
NEW SOWN GRASS <small>less than 1yr old</small>	NO CLOVER	Seedling Fat Hen, Docks, Thistles, Nettles, Chickweed	<b>PASTURE MASTER</b> 2.5L/ha + <b>FLUROXYPYR</b> 0.75L/ha	Apply April to 31st August in new sown leys from 3 leaf stage of grass
	CLOVER*	Seedling Fat Hen, Docks, Nettles, Redshank, Chickweed	<b>SQUIRE ULTRA*</b> 40G/ha*	Apply Feb to 30th June for rotational grass and to 15th Oct when re-sowing permanent grass (>5 years old)
ESTABLISHED GRASS <small>over 1yr old</small>	NO CLOVER	Docks, Thistles, Nettles, Buttercup, Chickweed, Dandelion	<b>THRUST</b> 2.5L/ha + <b>DEPITONE ULTRA</b> 1.25L/ha	Apply April to Sept to actively growing weeds at leafy rosette stage
	NO CLOVER	**Ragwort	<b>THRUST</b> 3.5L/ha + <b>DEPITONE ULTRA</b> 1.25L/ha	Apply to Ragwort rosettes in Sept with follow up application in spring if needed
	CLOVER*	Docks	<b>SQUIRE ULTRA*</b> 60G/ha	Apply February to 30th June for rotational grass and to 15th October in permanent grass >5 years
<b>SWARD FOR DESTRUCTION</b>		Non productive grass species with Dock, Thistles and Nettles.	<b>KYLEO</b> 5.0L/ha	Plough and reseed grass after 7 days or clover after 14 days. Direct drill after 1 month

\* Squire Ultra is safe to white clover only  
 \*\* Livestock should be excluded from treated areas until any Ragwort has completely died and there is no visible sign of the dead weed.

Product	Active Ingredients
Depitone Ultra	600g/l 2,4-D ester
Kyleo	240g/l Glyphosate + 160g/l 2,4D
PastureMaster	360g/l 2, 4D + 315g/l MCPA
Squire Ultra	75% w/w Amidosulfuron
Thrust	344g/l 2, 4D + 120g/l Dicamba

Always read the label and product information before use. For label and safety information, refer to the Nufarm website. [www.nufarm.com/uk/products](http://www.nufarm.com/uk/products)  
 Depitone Ultra, Kyleo, PastureMaster & Thrust are registered trademarks of Nufarm. Squire Ultra is a registered trademarks of Bayer.

Nufarm UK Ltd, Wyke Lane, Wyke, Bradford, BD12 9EJ  
 This is not a spray recommendation. Please contact our BASIS qualified advisor on 0800 023 4416

# WEED CONTROL

## CORTEVA - Grow great grass

Leading crop protection solutions for the control of Docks, Thistles, Nettles as well as other broad-leaved weeds in grassland.

SITUATION	PROBLEM	SOLUTION*	DOSE RATE	PACK SIZE
Established Grassland (All use areas)	Docks, Chickweed	<b>Doxstar</b> PRO HERBICIDE	2.0L/ha	2L
Established Grassland (Cattle and Sheep Grazing Only)	Thistles, Nettles	<b>Thistlex</b> HERBICIDE	1.0L/ha	3L
	Docks, Thistles, Nettles, Chickweed, Dandelions	<b>Pas • Tor</b> Agronomy Pack HERBICIDE	Pas 1.0L/ha + Tor 1.0L/ha	2L + 2L Agronomy Pack
Newly Sown Leys/ Established Grassland (All use areas)	Chickweed, Buttercups, Docks, Daisies, Dandelions	<b>Envy</b> HERBICIDE	1.5 L/ha Newly Sown Leys 2.0 L/ha Established Grass	3L
Newly Sown Leys/ Established Grassland (Cattle and Sheep Grazing Only)	Chickweed, Buttercups, Docks, Thistles, Daisies, Dandelions	<b>Leystar</b> HERBICIDE	1.0 L/ha Newly Sown Leys 2.0 L/ha Established Grass	2L
Spot Treatment	Docks, Thistles, Nettles, Brambles, Gorse, Broom	<b>Grazon</b> PRO HERBICIDE	60 mls	1L
		<b>Grazon</b> SPOT HERBICIDE		0.5L

\*The post-treatment stock exclusion interval for all the above products is 7 days in the absence of ragwort. Pre-treatment grazing/cutting/rolling intervals may also apply. \*\*Use All Clear Extra to clean sprayer after use.

Newly sown leys = grass < 12 months old.  
 Established grass = grass > 12 months old.

**Forage knowledge on the go.**

Free and easy to use, the Corteva Forage App is packed with information and tools to help you maximise your grass and maize crops.



**Download the Forage App now.** Simply scan the QR code.



E-mail: [ukhotline@corteva.com](mailto:ukhotline@corteva.com) [www.corteva.co.uk/forage](http://www.corteva.co.uk/forage)  
**USE PLANT PROTECTION PRODUCTS SAFELY.** Always read the label and product information before use. For further information including warning phrases and symbols refer to label.  
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# HERBICIDE APPLICATION

Controlling weeds will maximise grass yield, make better quality silage, make better utilisation of grassland and stock will be healthier.



As any form of soil cultivation can disturb the weed seed bank, it is important to check new leys regularly for any signs of weed infestation. Seeds can lie dormant for 80 years!

Timing is crucial to treat weeds because the active ingredients need to get from the leaves to all parts of the plant to kill it. Use a narrow spectrum product if you have specific weeds but use a broad spectrum product if you have a wide range of weeds.

## APPLICATION TIMING

At the start of spring nutrients are moving up from the tap root in order to grow new shoots and leaves, so the herbicide won't be translocated down to the roots. Likewise being too late is equally as ineffective, when the plant starts to produce seed heads, the nutrient reserves are coming up from the roots, so the herbicide won't have any effect again. The right time is when the weed is actively growing, so the nutrients are moving from the leaves as they photosynthesise, down into the roots.

## TARGET GROWTH STAGE

**DOCKS:** 15-20cm in diameter and height.

**NETTLES:** 30cm in diameter and height.

**THISTLES:** A longer window, from a small rosette but before it flowers.

They can be topped in summer and the active regrowth can be sprayed 2-3 weeks later.

For more information on dealing with weeds, consult a Carr's Billington BASIS adviser 0800 023 4416

CARR'S  
BILLINGTON

COUNTRY STORES



Annan Country Store DG12 6TZ	01461 202772
Appleby Country Store CA16 6HX	017683 52999
Ayr Agricultural Store KA6 5JW	01292 263635
Bakewell Country Store DE45 1GZ	01629 814126
Balloch Country Store G83 8LY	01389 752800
Barnard Castle Country Store DL12 8ED	01833 637537
Brecon Country Store LD3 8EF	01874 623470
Brock Country Store PR3 0PZ	01995 643200
Carlisle Country Store CA1 2UY	01228 520212
Cockermouth Country Store CA13 0QQ	01900 824105
Gisburn Country Store BB7 4ES	01200 445491
Hawes Country Store DL8 3NP	01969 667334
Hexham Country Store NE46 1XL	01434 605371
J36 Kendal Country Store LA7 7FP	01539 566035
Jedburgh Country Store TD8 6TJ	01835 850250
Leek Country Store ST13 8NR	01538 383277
Milnathort Country Store KY13 9UZ	01577 862381
Morpeth Country Store NE61 2SL	01670 518474
Morpeth Machinery Depot NE61 6JN	01670 503930
Oban Country Store PA34 4SD	01631 566279
Penicuik Country Store EH26 8EZ	01968 707040
Penrith Country Store, Cumbria CA11 9EU	01768 866354
Rothbury Country Store, Morpeth NE65 7RZ	01669 620320
Skipton Country Store BD23 1UD	01756 792166
Spennymoor Country Store (Groundcare) DL16 7NL	01388 662266
Stirling Country Store FK9 4RN	01786 474826
Stranraer Country Store DG9 7UD	01845 440960
Thirsk Machinery Depot YO7 3AB	01776 740310
Wigton Country Store CA7 9NS	01697 345874
Wooler Country Store NE71 6QE	01668 281567
Customer Services	01228 518860

DISCLAIMER: Any information provided in this catalogue is given in good faith and to the best of our existing knowledge. Any advice should therefore be taken as a general guide only and not relied upon for all conditions and circumstances. We cannot accept any legal liability for this information. In any instance where there are shortages of specified species we reserve the right to substitute equivalent species. All information correct from .Gov December 2023



At least 50% of a cows diet is  
grass or forage!

**CARR'S  
BILLINGTON**



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