

2020 GUIDE

# BarForage

## Scotland Grass and Forage Crops

*Proudly supporting farmers*



 **BARENBRUG**



## Proudly Supporting Scottish Farmers

- ✓ We've been breeding our agricultural grass varieties in Britain in Partnership with AFBI for nearly 30 years
- ✓ We're using nearly 20 British bred varieties in 2020
- ✓ We have over 10 years of British trialling and testing at our own Cropvale Farm Research Site
- ✓ We have over 3500 ha of British farmland producing our grass seed
- ✓ All our mixtures are designed and formulated to ensure continuous improvement for British Farming
- ✓ Our varieties are tested in 17 different locations in the British Isles



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# Dedicated To You

## Enterprise Guides

**Good quality grazed grassland is the cheapest feed for ruminant livestock and is the base upon which profitable farming is built.**

Almost 80% of utilisable agricultural land in Scotland is given over to grass – making it one of our most important crops.

To help UK farmers get more from their grassland, we have created a series of enterprise and application specific guides that set out a clear and compelling case for proactively managing grassland performance, whatever the farm focus.

Recognising that market conditions have been difficult for some time, and that farmers have more forage options available to them than ever before, our guides are designed to help UK farmers make the right choices and pick the right products as they work to achieve their grassland goals.

Each guide contains useful information about grassland growth and practical advice on perfecting grassland performance and looking after leys long-term. There are also details about the different grassland management techniques, and varieties and species available to UK farmers.

**Discover our Enterprise and Advice Guides and turn your grass into gold.**

Dairy Guide

Good Grass Guide

Silage Guide

Sheep Guide

Beef Guide

Forage Crops

# Looking After Leys

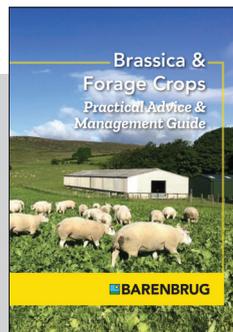
## Long-term

5  
Indexes

**Long-term it is essential to maintain swards in the best possible condition to ensure consistently good yields.**

This means measuring and monitoring growth regularly and getting up close with your grass. Many fields look good at a glance and it is not until you get right up to the sward that you can spot problems. Most farms will have fields at different stages of maturity – and this variation can make it difficult to know which tasks to prioritise.

To help farmers decide where to focus their efforts, we have devised a simple field indexing system to monitor field performance, which can be employed regardless of grass type or management technique. The system is easy to use and draws on the stock conditioning method that many farmers use to grade their livestock. It provides a five-step scoring system that enables farmers to grade grass and decide what, if any, action is required to keep fields productive.



# What's New For 2020



## CALLAN

**Callan is a late heading diploid perennial ryegrass with an REE of 46. It is ideal for growers looking for high quality spring grazing or first cut silage.**

- UK Bred by AFBI in Northern Ireland
- 100% UK crop production
- Very high yielding; 104% of control for both cutting and grazing
- Exceptional spring yields for a late heading variety; 111% first cut silage and 125% spring growth under grazing
- High quality first cut of 70D and grazing over 75D
- Also a top listed variety in England and Wales

Callan can be found in Cut & Graze, Adapt, Highlander and Barmix in 2020.



## BARCLAMP

**Barclamp is a diploid hybrid ryegrass with an REE of 39. It is the first Barenbrug bred hybrid ryegrass to list 1st choice in Scotland.**

- 100% UK crop production
- A - rated ground cover
- Latest heading recommended hybrid ryegrass available in the UK
- Achieve over 5.5t DM/ha first cut with a quality of 68.5D
- Stretch your growing season with good early and late season yields

Barclamp can be found in Hybrid Cut & Graze and Protein Sile in 2020.



# Reseeding

## Can you afford not to?

### Why?

Reseeding can be an expensive business but, if you pay full care and attention, in the first year the value of the improved yield and grass quality can be worth:

**Over 12,500 litres of milk**

**Over 1000kg of lamb**

**Over 1200 kg of beef**

**Over 500% of the cost**

### How?

Follow the advice in the Good Grass Guide to identify the worst performing field on the farm – this is the priority for remedial work and is not necessarily the oldest field.

### What with?

Just as a cow is not the same as a cow, one grass seed mixture is not the same as another. As with feed, you should always ask 'What's IN the bag?' and not just 'How much is an acre of grass?'.  
© BarForage

### Purity

#### Not all mixtures are the same

Alongside supporting the UK farming industry, we're also aiming to produce all our grass seed to the Higher Voluntary Standard (HVS), which is unique to the UK, guaranteeing a higher level of purity than European Union standards. The next time that you see a bag of grass seed, don't just look at the price - delve a little deeper.



## Mixture Selector *Which is right for you?*

**Our grass seed mixtures have been formulated carefully using species and varieties that should suit almost any circumstance in Scotland.**

We don't just put grass seed in a bag and put it on a shelf. As well as developing a range of mixtures suited to different farm management focuses we have a full support team throughout the UK and a range of tools to help you get the best from your grassland.

The make-up of each mixture and its subsequent management can have

significant impacts on the longevity and levels of production you can achieve.

Deciding how long the ley will last and what it needs to deliver will help ensure you get the best mixture for your enterprise. Each mixture is formulated for a specific job, which you'll find detailed on each product page.

If you are in any doubt, contact your local supplier or one of our team who can advise you on the merits of a mixture for the requirements of the job.

**NEW Herbal Leys section on pages 30-33**



## Short term

Catch crop option of massive silage yield for up to 18 months



Page 10-11

Silage or overwintering

Maximum yield up to 2 years



Page 12-13

Silage

Protein production

with winter cover



Page 29

Beef, Sheep, Silage

## Medium term

Protein production



Page 14-15

Dairy, Beef, Sheep

Hybrid cut and graze



Page 16-17

Dairy, Beef, Sheep, Silage

Overseeding on existing pasture



Page 27

Dairy, Beef, Sheep, Silage

## Long term

Dual purpose cut and graze

mid-May cut



Page 18-19

Beef, Sheep

Extended grazing for upland situations



Page 20-21

Dairy, Beef, Sheep, Silage

Dual purpose cut and graze

without clover



Page 22-23

Dairy, Beef, Sheep, Silage

Extensive grazing and cutting

with clover



Page 24-25

Beef, Sheep



Short-term

# BarBumper

## Winter cover and grazing

*Ideal winter cover crop  
and grazing.*

**BARBUMPER** establishes quickly to provide winter cover and rapid growth even at cool temperatures offering production late into autumn, delivering extra grazing opportunities over winter.

It gives total flexibility for up to 18 months production potential and could also be established after a spring cereal harvest.

### Later production = winter grazing option

Thanks to its ability to germinate at lower temperatures than conventional leys meaning it can be sown safely throughout October, being developed using the concept of 'germination energy'.

This concept means it will establish faster and better than other leys, even in the adverse conditions of cold, wet seed beds which appear later in the year.



**20% faster  
establishing than the  
average ryegrass**

By measuring the germination rate under low temperatures of 7-10°C, similar to those found in the field throughout October and selecting those which give the best germination in the shortest time, the result is an establishment rate of over 20 percent above the average ryegrass.

BARBUMPER is a very flexible product that can fit into different regimes as required.

It is equally at home being used as an early spring cut before being ploughed out for a spring sown crop or used as a sacrifice field for early spring grazing as a more cost effective alternative to ryegrass.

- Can assist with prevention of winter soil erosion
- It has the ability to make use of existing nutrients in the soil after previous crop soaking up N, thus decreasing winter leaching
- Can add organic matter to the soil improving its quality, structure and nutrient holding capacity
- Blending Italian ryegrass with hybrid and perennial ryegrasses ensures the mixture delivers a rounded performance with very rapid establishment, a bottom to the sward, making it denser, and very tight heading dates
- Delivers over 18% more in the first year compared to a perennial ryegrass ley

### In the bag

50% Westerwolds

50% Italian Ryegrass

Sowing rate: 12-15kgs per acre

Pack size: 25kg

# High D Italian

Short-term Italian

**A highly productive  
short-term Italian ley.**



**HIGH D is a highly productive Italian ley, which will give exceptional crops for silage, hay or grazing from a high input system. It's ideal for growers who want to produce the maximum amount of forage possible from their own land.**

**HIGH D has a very long growing season; its exceptional spring growth makes it ideal for lamb finishing or early turnout. An early grazing can be followed by up to four cuts of quality silage and a late flush for grazing.**

### In the bag

7.00kg **Javorio** Italian Ryegrass (DIP)

7.00kg **Gemini** Italian Ryegrass (TET)

14kg per acre. Sowing: 1,202 seeds/m<sup>2</sup>

### When to sow

Grows at temperatures as low as 3°C so the farm must be able to make use of this early growth.

### When to cut

A first cut at the end of May, following a spring grazing, will produce 70+ D value silage, with a second cut, five weeks later. The ultimate silage mixture which will yield up to 17tDM/ha in its first year under high input management. For maximum production up to six cuts a year under high N systems.

### When to graze

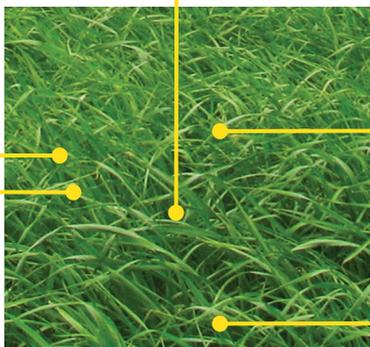
Early grazing for turnout of ewes and lambs or finishing long keep store lambs.

HIGH D is a better option than sowing a single Italian ryegrass variety.

It will provide massive amounts of clean, quality forage throughout the year without any loss of production mid season.

HIGH D grows down to 3°C soil temperature extending the growing season for store lambs or wintering hogs.

Includes two Italian ryegrasses, which perform very well compared to their rivals.



JAVORIO and GEMINI are high yielding, all-round varieties, with excellent quality.

Responds very positively to high levels of fertility and will produce 20% more yield than perennial ryegrass leys.

Medium term

# **Protein Sile**

**Grass and clover silage**

***An excellent low input, high output, high protein cutting ley for three to four years with the option to graze.***



An intensive cutting mix that will produce up to four prolific cuts of leafy, high protein forage per year, with the option to graze cattle or finish lambs (although it's not advisable for breeding sheep due to phytoestrogen production).

In the bag		
3.75kg	<b>Barclamp</b>	Hybrid Ryegrass (DIP)
3.00kg	<b>Kirial</b>	Hybrid Ryegrass (TET)
4.00kg	<b>Fintona</b>	Intermediate Perennial Ryegrass (TET)
3.00kg	<b>Ensign Red</b>	Red Clover Blend
0.25kg	<b>Barblanca</b>	Large White Clover
14kg per acre. Sowing: 1,381 seeds/m <sup>2</sup>		

### When to sow

PROTEIN will grow at soil temperatures of down to 5°C, enabling the growing season to be extended. Clover will germinate at 10°C.

### When to cut

Three cuts of high protein forage can be taken from this highly productive mixture. Both grass and clover heading dates have been matched to ensure a consistent, quality crop of silage.

### When to graze

Post-cutting grazing is ideal for finishing lambs or grazing young cattle.

Breeding sheep should avoid all red clover sources for six weeks pre-tupping until six weeks after tupping as phytoestrogens can affect the breeding cycle and conception rates.

Animals fed on red clover/ grass silage will eat more and perform better than those fed on grass silage alone due to increased intakes and protein levels.

This mixture 'Fixes' up to 200kg/Ha of nitrogen meaning it grows with no applications of bagged nitrogen.



Designed for yield and persistence, combining the yield of the grasses with the additional protein from the ENSIGN RED clover blend.

Trials have shown a 3% improvement in kill out percentage for lambs finished on red clover.

The high clover content will benefit from a pH of 6 or more and close attention to P and K levels.

Medium term

# Hybrid Cut & Graze

## Medium-term

*A top quality hybrid ryegrass based ley, designed to give excellent forage cuts with the option to graze.*



An excellent cutting and grazing ley using the most persistent hybrid varieties for up to five years' production. Designed to provide excellent spring growth, enabling an early first cut or early grazing. Great for medium-term rotations and mixed livestock units.

### In the bag

3.50kg	<b>Barclamp</b>	Hybrid Ryegrass (DIP)
5.00kg	<b>Aston Crusader</b>	Hybrid Ryegrass (TET)
3.00kg	<b>Fintona</b>	Intermediate Perennial Ryegrass (TET)
2.00kg	<b>Boyne</b>	Intermediate Perennial Ryegrass (DIP)
0.5kg	<b>Barblanca</b>	White Clover

Also available without clover.  
14kg per acre. Sowing: 1,418 seeds/m<sup>2</sup>

### When to sow

Sow when soil temperature is above 8°C, clover will germinate at 10°C. The mixture has been designed to provide season-long production, with exceptional early spring and late summer growth.

### When to cut

Produces highly digestible forage from a mid-to-late May first cut with the mixture averaging over 70% D value throughout

the season. Can produce three-four cuts a season for up to five years.

### When to graze

This top-quality dual purpose mixture has the ability to be grazed from early spring through to late autumn. Hybrid ryegrasses grow at 6°C, therefore extend the growing season. This makes HYBRID CUT & GRAZE a very flexible mixture for mixed enterprises who need cutting and grazing opportunities.

Contains BARCLAMP diploid hybrid ryegrass for improved ground cover.

Close heading date pattern to ensure uniform crop quality.



The high proportion of tetraploid varieties ensures better drought resistance and higher water soluble carbohydrate content.

FINTONA is the highest yielding perennial ryegrass ever listed in the UK. First cut of 105% and total cutting yield of 110%.

Contains only first choice SRUC varieties.

Long term

# Cut & Graze

Silage with grazing

*Top quality silage production  
with grazing option.*



**CUT & GRAZE produces top quality silage with the option to graze. It's a long-term, persistent, highly flexible mixture with clover. Ensign white clover blend is included for nitrogen fixation, increased protein content and persistency.**

### In the bag

2.00kg	<b>Moira</b>	Intermediate Perennial Ryegrass (DIP)
3.00kg	<b>Gosford</b>	Intermediate Perennial Ryegrass (DIP)
2.50kg	<b>Fintona</b>	Intermediate Perennial Ryegrass (TET)
3.50kg	<b>Callan</b>	Late Perennial Ryegrass (DIP)
2.00kg	<b>Ballintoy</b>	Late Perennial Ryegrass (TET)
1.00kg	<b>Comer</b>	Timothy
1.00kg	<b>Ensign</b>	White Clover Blend

15kg per acre. Sowing: 2,903 seeds/m<sup>2</sup>

### When to sow

Sow when soil temperature is above 8°C, clover will germinate at 10°C. The mixture has been designed to provide season-long production, with exceptional early spring and late summer growth.

### When to cut

Produces highly digestible forage from a late May first cut with the mixture averaging over 70% D value throughout the season ensuring that this mixture is ideal for all enterprises.

### When to graze

This top-quality dual purpose mixture has the ability to be grazed from early spring through to late summer. If it's being used for both cutting and grazing, the mixture will deliver two exceptional silage cuts and summer grazing, making it truly flexible.

The mixture is balanced for season-long performance with intermediate and late perennial ryegrasses included.

BALLINTOY is included for its exceptional early spring growth (122%) and GOSFORD for its late summer growth (119%) ensuring season-long performance.



Maximum production by using the top yielding varieties including CALLAN and FINTONA, both top of their classes for yield.

ENSIGN white clover blend is included for nitrogen fixation and increased protein content.

Contains only first choice SRUC varieties.



# Highlander

Flexible long-term

*Flexible, extensive, long-term  
ley suited to cutting and grazing.*



Ideal for upland areas and less favoured areas with the inclusion of extra Timothy and strong creeping red fescue, which provides a strong sole to the sward. High plant population and use of high ground cover species improves sward density and carrying capacity.

In the bag		
2.00kg	<b>Moyola</b>	Early Perennial Ryegrass (DIP)
2.00kg	<b>Glenariff</b>	Intermediate Perennial Ryegrass (DIP)
2.00kg	<b>Caledon</b>	Intermediate Perennial Ryegrass (TET)
2.75kg	<b>Callan</b>	Late Perennial Ryegrass (DIP)
2.00kg	<b>Ballintoy</b>	Late Perennial Ryegrass (TET)
2.00kg	<b>Dipper</b>	Strong Creeping Red Fescue
1.25kg	<b>Comer</b>	Timothy
1.00kg	<b>Ensign</b>	White Clover Blend
15kg per acre. Sowing: 3,368 seeds/m <sup>2</sup>		

### When to sow

Sow when soil temperature is above 8°C, clover will germinate at 10°C. The mixture has been designed to provide season-long production, with exceptional early spring and late summer growth.

### When to cut

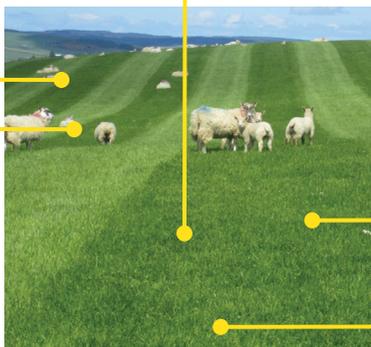
When cut, this mixture will produce good conserved fodder for winter feed. Up to two cuts can be achieved after early grazing.

### When to graze

Provides excellent early spring growth, making it ideal for outdoor lambing or cow turnout. Excellent early season grazing can be followed by a baled silage or hay crop then autumn grazing.

Outstanding persistency, using varieties with proven durability and winter hardiness.

MOYOLA is the highest yielding grazing early diploid variety on the SRUC recommended list (114% of control varieties) coupled with the highest early spring growth (123%) and best quality grazing.



CALLAN has excellent mid and late season growth with good quality.

ENSIGN white clover blend is included for nitrogen fixation and increased protein content.

Contains only first choice SRUC varieties.



Long term

# **Adapt**

No clover option

*A long-term, top class, highly flexible, dual purpose mixture without clover, which produces top quality forage suitable for cutting and grazing.*



**This blend of yield and palatability creates a very flexible ley meaning you will get long-term production from this highly persistent ley. The omission of clover allows for cost effective weed control.**

In the bag		
2.00kg	<b>Moira</b>	Intermediate Perennial Ryegrass (DIP)
4.00kg	<b>Gosford</b>	Intermediate Perennial Ryegrass (DIP)
2.50kg	<b>Fintona</b>	Intermediate Perennial Ryegrass (TET)
3.50kg	<b>Callan</b>	Late Perennial Ryegrass (DIP)
2.00kg	<b>Ballintoy</b>	Late Perennial Ryegrass (TET)
1.00kg	<b>Comer</b>	Timothy
15kg per acre. Sowing: 2,604 seeds/m <sup>2</sup>		

## When to sow

Perennial ryegrass germinates at 8°C; ensure this is sown when soil temperature is above 8°C.

## When to cut

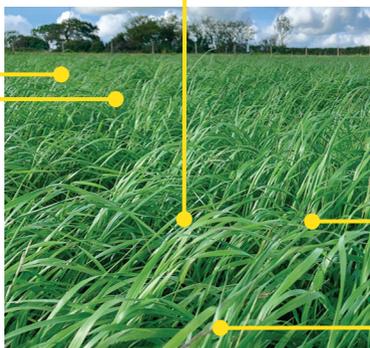
Produces exceptional silage cuts of extremely nutritious forage. Produces highly digestible forage from a late May first cut with the mixture averaging over 70% D value throughout the season ensuring that this mixture is ideal for all enterprises.

## When to graze

This top-quality dual purpose mixture has the ability to be grazed from early spring through to late summer. If it's being used for both cutting and grazing, the mixture will deliver two exceptional silage cuts and summer grazing, making it truly flexible.

The mixture is balanced for season-long performance with intermediate and late perennial ryegrasses included.

Maximum production by using the top yielding varieties including MOIRA and FINTONA, both top of their classes for yield (106% and 111% respectively of control varieties).



Designed to perform especially well in early summer (May/June), ADAPT gives over 10% more yield than SRUC control varieties during the season.

The inclusion of Timothy is beneficial where increased ground cover is needed and where over winter grazing occurs.

Contains only first choice SRUC varieties.



Long-term

# Barmix

Long-term

*The long-term, low input,  
high output mixture for beef  
and sheep enterprises.*

A highly successful, persistent, drought tolerant, high protein sward for beef and sheep production from a clover-based sward. BARMIX uses the best new cocksfoot and tall fescues to produce a highly palatable, very productive ley. As a result it produces considerably more grass than conventional ryegrass leys especially under low fertility conditions and low fertiliser usage.

## In the bag

2.50kg	<b>Callan</b>	Late Perennial Ryegrass (DIP)
3.00kg	<b>Ballintoy</b>	Late Perennial Ryegrass (TET)
2.50kg	<b>Bardoux</b>	Tall Fescue
3.00kg	<b>Barelite</b>	Tall Fescue
1.00kg	<b>Baraula</b>	Cocksfoot
1.00kg	<b>Comer</b>	Timothy
1.00kg	<b>Ensign</b>	White Clover Blend

14kg per acre. Sowing: 2,814 seeds/m<sup>2</sup>



## When to sow

Sow when soil temperature is above 8°C. The mixture has been designed to deliver exceptional late winter and early spring growth. This mixture has a lower proportion of ryegrass, so will thrive on more marginal land and under a clover only or very low nitrogen system.

## When to cut

Produces exceptional silage cuts of extremely nutritious forage. BARMIX can be shut off mid season for a big bale silage cut or can be grazed all year.

## When to graze

This mixture can be grazed all year. Tall fescue and cocksfoot grow very rapidly, particularly in early spring, so to maintain the sward in its optimum condition, it's strongly recommended to tightly graze the sward from late winter. This stops the grass becoming too strong, and remaining highly palatable to grazing animals or giving the best combination of quality and quantity when conserved.

This innovative mixture has been developed by us to offer an alternative mixture for beef and sheep enterprises looking for a low input, high output mixture.

BARAULA (cocksfoot), BARELITE and BARDOUX (tall fescues) are proven in on-farm grazing trials to be highly palatable due to their soft leaves.



The ryegrasses in the sward are highly productive, contributing to the total performance.

Tall fescue is a winter active species and cocksfoot grows earlier in the spring than other species, delivering that vital early bite for lambing. Tall fescues BARELITE and BARDOUX add excellent drought tolerance due to their deep rooted, persistent nature. They are also more tolerant of waterlogged soils.

# Overseeding

## Guide

**Get your grassland productive.**

- 1 Dig a soil assessment pit to look for compaction and plant rooting structure which should go 30cm deep in PRG/ Timothy sward. Address compaction with aerators or sub-soilers as needed.
- 2 Soil testing (4" deep) would also be advantageous as high levels of water can leach nutrients and reduce pH significantly. Assess what plants are there – learn to identify what species you want to have e.g. PRG/Timothy. Check for weed grasses, they are usually shallow rooted and pull out very easily.
  - 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.
- 3 Minimise competition to new seedlings by grazing tightly with sheep or taking a silage cut. DO NOT fertilise before overseeding.
- 4 Control perennial weeds before seeding by spraying with a selective herbicide.
- 5 Use a spring tine harrow to remove any dead stalks, thatch and shallow rooted weed grasses. Make sure that the tines are working the top 1cm of the soil as this will create the seed bed for the new seeds.
- 6 Sow when the soil conditions are neither excessively dry nor wet and use a specialist mixture designed to establish rapidly.
- 7 Roll the sward to ensure good seed contact with the soil to conserve moisture.
- 8 Graze lightly when the seedlings are 10cm high and continue at frequent intervals until the plants are well established. All the best things start from the ground up and it's important you choose a mixture designed for the job.

Medium term

# Overseeder

## Restoring productivity to a long-term ley

Forage production is expensive – get your sward back into maximum, long-term productivity by overseeding.

### In the bag

6.00kg	<b>Barvitra</b>	Hybrid Ryegrass (TET)
7.00kg	<b>Fintona</b>	Intermediate Perennial Ryegrass (TET)
7.00kg	<b>Youpi</b>	Late Perennial Ryegrass (TET)

Supplied as 20kg, two acre packs.  
Sowing: 664 seeds/m<sup>2</sup>

OVERSEEDER is a 100% ryegrass blend for areas of high fertility.

- Increases the proportion of productive ryegrass in the sward
- Improves the quality of the grass for better animal performance
- Improves the Nitrogen efficiency of the sward
- Repairs the damage caused by poaching of grazing swards
- Specifically designed to work best with specialist overseeding techniques
- Includes varieties which are aggressive enough to establish in an existing sward, yet easy to manage



# Ensign

## White Clover Blend

ENSIGN is a blend of white clovers, which gives better animal performance, higher milk yields and better live weight gains. It also produces a better quality sward, with fewer weeds and less disease.

### In the bag

50% **Crusader** White Clover

30% **Alice** White Clover

20% **Barblanca** White Clover

Pack sizes: 5kg and 25kg.  
Sowing rate: Up to 1kg per acre.



# Ensign Red

## Red Clover Blend

ENSIGN RED is a blend of red clovers, which balances production through the growing season, while maintaining excellent persistency and disease resistance.

### In the bag

**Discovery** Red Clover

**Lemmon** Red Clover

Pack sizes: 5kg and 25kg.  
Sowing rate: Up to 2.5kg per acre.

Due to high phyto-oestrogen content, breeding sheep must be kept off red clover for 6 weeks either side of tupping.



# Ensign Duet

## Red & White Clover Blend

ENSIGN DUET is a unique mixture of red and white clovers, developed to meet the need for rapid nitrogen fixation to feed new leys.

### In the bag

67% **Ensign Red** Red Clover Blend

33% **Ensign** White Clover Blend

Pack sizes: 5kg and 25kg.  
Sowing rate: Up to 2.5kg per acre.

Short term

# Prota Plus

## Grass & Clover Protein

### Utilisation

Graze, cut  
or both

### Sowing Period

Spring with soils ideally  
at 10°C or above

### Utilisation Period

Use for up to 18  
months after sowing

**PROTA PLUS is an exceptionally versatile mixture which can provide a number of benefits. It is an ideal break crop in any arable rotation or an exciting alternative to brassicas in livestock systems.**

### How it works

- BARMULTRA II provides high yields of high quality grass into the second year.
- CONTEA Crimson clover is an erect type single cut annual clover, which will grow from seed to flowering in around 120 days. It should be cut before flowering for maximum quality.
- LIGHTENING Persian clover is more prostrate type multi-cut annual species.

### In the bag

6.00kg **Barmultra II** Italian Ryegrass (TET)

4.50kg **Contea** Crimson Clover

1.50kg **Lightening** Persian Clover

12kg per acre

### Animal benefits

- Suitable for any livestock class including breeding sheep
- High yields of high protein (20%), high ME (12-14MJ) silage achievable
- Very long growing season
- Can shorten finishing period and lower winter feeding requirements compared to grass only

### Environmental benefits

- Requires no Nitrogen applications in the first year
- Can leave up to 50kg N/ha in the soil for subsequent crops
- Attractive to bees and other insects
- Cleaner ground conditions than traditional brassica feeding systems and no bare soil overwinter
- Aggressive root system can improve soil structure and contribute to soil organic matter



# BarForage Herbal Leys

The BarForage range of herbal leys are designed to bring a range of benefits to forage, livestock health and soil health and fertility. As well as the contributions made by grasses and clovers, the inclusion of forage herbs like plantain and chicory will provide minerals in the sward helping to improve liveweight gains and increase milk production. As if that isn't enough, the herbs will improve soil health by feeding microbes and help build soil fertility through the conversion of soil nitrogen thus reducing the need for or reliance on artificial fertiliser. BarForage herbal leys are also designed to improve soil structure due to the deep rooting nature of the different plant types.

With a range of mixtures to choose from, farmers now have the choice of short or long-term crops that will ultimately extend the growing season, have improved drought tolerance and will help to reduce the worm burden in livestock due to their anthelmintic properties.

The BarForage herbal ley range includes:

- Bar Finisher
- Bar Herbal
- Bar GS4 Graze



## Bar Herbal

A mixture including perennial ryegrasses, white clover, plantain and chicory. Its main purpose is to extend the shoulders of the grazing season whilst enhancing the yield and the quality of the sward. The deep rooting characteristics of the herbs and legumes will enhance the mineral content of their companion grasses due to their ability to source nutrients from deep within the soil. This will also help with soil structure and therefore increase water infiltration, resulting in extra grazing days when compared to conventional perennial ryegrass mixtures.

### In the bag

1.75kg	<b>Moira</b>	Intermediate Perennial Ryegrass (DIP)
1.75kg	<b>Gosford</b>	Intermediate Perennial Ryegrass (DIP)
2.00kg	<b>Seagoe</b>	Intermediate Perennial Ryegrass (TET)
2.00kg	<b>Callan</b>	Late Perennial Ryegrass (DIP)
3.00kg	<b>Ballintoy</b>	Late Perennial Ryegrass (TET)
0.50kg	<b>Comer</b>	Timothy
1.00kg	<b>Ensign</b>	White Clover Blend
0.75kg	<b>Commander</b>	Chicory
1.00kg	<b>Tonic</b>	Plantain

13.75kg per acre. Sowing: 2,289 seeds/m<sup>2</sup>

# Bar Finisher

## Mixture

### Utilisation

Graze in situ

### Sowing Period

Spring & Autumn

### Utilisation Period

Spring, Summer & Autumn

**BAR FINISHER is a mix of chicory, white clover, red clover and plantain with excellent animal performance potential. It produces a leafy, high quality feed over spring, summer and autumn when traditional pastures can decrease in quality.**

BAR FINISHER can be used as a six month or two year crop depending on the farm system and/or grazing management approach. The clover in the mix will provide nitrogen to feed the crop, also filling space not occupied by herbs. The red clover component, alongside the herbs, will provide high quality feed through a dry season, helping to reduce risk in summer dry areas.

### In the bag

1.50kg	<b>Ensign Red</b>	Red Clover Blend
1.00kg	<b>Ensign</b>	White Clover Blend
1.50kg	<b>Tonic</b>	Plantain
1.00kg	<b>Commander</b>	Chicory

Pack size 10kg (2 acres). Sowing rate: 5kg per acre.

- Highly palatable, providing an excellent feed for high live weight gains
- Provides high quality feed through summer that recovers quickly after grazing
- High protein option for dairy farmers
- Clover provides fixed nitrogen
- High mineral content, particularly zinc, potassium and copper
- BAR FINISHER can be used to add to any standard BarForage grass seed mixture



# Bar GS4 Graze

## Long-term herbal grazing ley

**A bio-diversity multi-species herbal ley which will adapt and thrive in diverse locations and soil types.**

This diverse mixture has been proven to provide a hardy, very long grazing season for ruminants and is coupled with multi legume species to fix nutrients to sustain year-long production. BAR GS4 GRAZE comprises of 15 different species including 5 grasses, 5 legumes and 5 herbs, all of which bring a range of benefits to the biodiversity ley.

- Using the flowering species in this mixture alongside the all diploid grass constituents, vital beneficial pollinators can feed and gain shelter.
- These species with deep penetrating roots will improve soil structure and they have the ability to make the best use of the available soil nutrients – all available moisture and minerals – helping with animal health and reducing the need for bought-in nutrients.

### In the bag

2.00kg	Tall Fescue
2.00kg	Meadow Fescue
2.00kg	Smooth Leaved Cocksfoot
1.00kg	Timothy
2.00kg	Intermediate Perennial Ryegrass (DIP)
2.00kg	Late Perennial Ryegrass (DIP)
0.20kg	Large Leaf White Clover (Legume)
0.25kg	Medium Leaf White Clover (Legume)
0.20kg	Small Leaf White Clover (Legume)
0.66kg	Red Clover (Legume)
0.10kg	Sanfoin (Legume)
0.10kg	Birdsfoot Trefoil (Legume)
1.00kg	Vetch (Legume)
0.25kg	Chicory (Perennial) (Herb)
0.05kg	Ribwort (Plantain) (Herb)
0.03kg	Yarrow (Herb)
0.05kg	Sheeps Parsley (Herb)
0.11kg	Salad Burnet (Herb)

Pack sizes: 14kg.  
Sowing rate: 14kg per acre.

# Brassica and Forage Crops

Grass has to be the first priority for feeding livestock efficiently; however forage crops are a valuable tool for meeting the changing feed and energy requirements throughout the year.

Feed supply and stock performance can be manipulated through the use of different forage species. We recognise the integral role of brassicas, forage herbs and lucerne in breeding and research and we are proud to supply products specifically bred for UK systems.

## Benefits of Brassica and Forage Crops

- Strategic crop in pasture renovation – makes regressing easier i.e. less weed pressures
- Means of controlling spring surplus and shifting feed from spring into summer or autumn to winter
- Breaking up insect pest cycles to help renovate pasture
- High animal performance potential
- Many options with a lot of flexibility
- Consistently high quality ME 10.5-13, proteins 16-24%

Sowing & Utilisation Guide	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
STUBBLE TURNIP	USE	USE		SOW	SOW		SOW	SOW	USE	USE	USE	USE
FORAGE RAPE						SOW	SOW	SOW		USE	USE	USE
KALE	USE	USE	USE	SOW	SOW	SOW				USE	USE	USE
LUCERNE	USE	USE	SOW	SOW	USE	USE	USE	USE	USE	USE	USE	USE
VETCH	USE	USE	SOW	SOW	SOW	USE	USE	USE	SOW	SOW	USE	USE
PLANTAIN	USE	USE	SOW	SOW					SOW	SOW	USE	USE
CHICORY				SOW	SOW	SOW	SOW	SOW				

Discover our Forage Crops Guide for management advice



# Caledonian & Thousand Head

## Kale

### Utilisation

Graze in situ  
& Zero Graze

### Sowing Period

Spring &  
Early Summer

### Utilisation Period

Autumn  
& Winter

### Days to maturity

170-220 days

Kale is a well-proven, highly adaptable fodder crop which consistently provides very high yields of succulent green fodder. Two varieties available:

### Caledonian

A high yielding kale with clubroot tolerance. Its huge yield makes it ideal for utilisation by dairy and beef cattle.

### Thousand Head

A medium height kale with excellent leaf to stem ratio (greater than 50% leaf). Suitable for sheep and cattle grazing.

### Potential

- High-yielding giant type kale with potential yield of 18,000kg DM/ha

### Advantages

- Excellent tolerance to frost
- Good aphid tolerance
- Very high dry matter yields
- Good winter hardiness
- Good clubroot tolerance

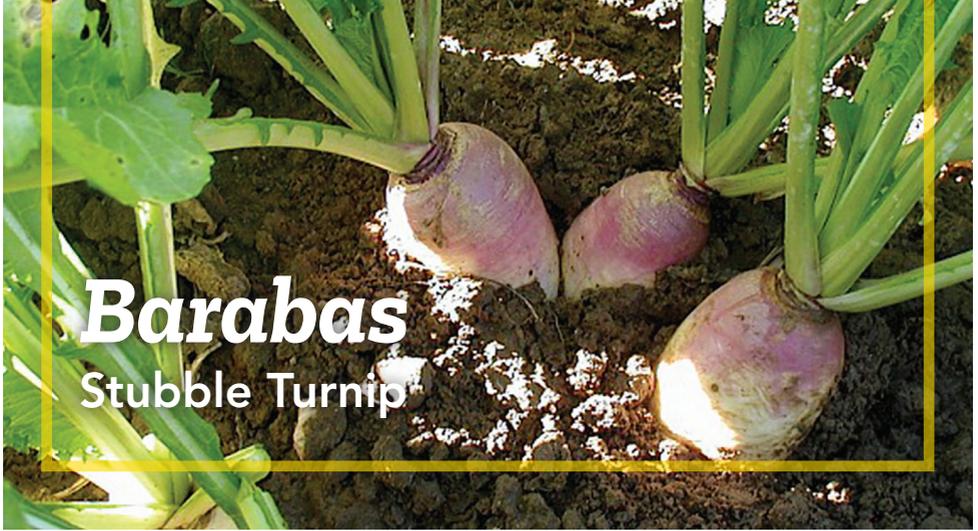
### Sowing rate:

Drilled: 1–2kg/acre (2.5–5kg/ha)

Broadcast: 3kg/acre (7.5kg/ha)

### Pack Sizes:

Available in pack sizes of 5kg or 25kg (untreated), 2kg (treated)



# Barabas

## Stubble Turnip

### Utilisation

Graze in situ

### Sowing Period

Spring & Autumn

### Utilisation Period

Summer & Winter

### Days to maturity

60-90 days

**Stubble turnips have a high leaf to bulb ratio resulting in high levels of protein, and a tankard bulb shape to enhance utilisation.**

BARABAS is a variety which has been very successful wherever it has been used throughout the UK and with some farmers proclaiming as the best stubble turnip variety they have encountered!

### Advantages

- High leaf to bulb ratio resulting in high levels of protein
- Full-leaved late tetraploid bulbing with very good early vigour
- Proven very palatable to grazing animals with good disease resistance
- Early maturing (60-90 days) for excellent summer/winter feed

### Management advice

Plant two-thirds of the crop area in early maturing BARABAS and one-third with a late maturing variety, such as BARCOLI, at the same time (not together). This will provide a high quality summer feed that can be grazed from 60-150 days after sowing.

#### Sowing rate:

Spring sown at 3kg/acre (7.5kg/ha) for high leaf percentage

Autumn sown at 2kg/acre (5kg/ha) for larger bulb percentage

#### Pack sizes:

Available in pack sizes of 5kg or 25kg



# Barcoli

## Forage Rape

### Utilisation

Graze in situ

### Sowing Period

Spring &  
Early Summer

### Utilisation Period

Autumn  
& Winter

### Days to maturity

90-110 days

**A multi-purpose forage rape with excellent autumn/early winter feed potential.**

BARCOLI is a flexible forage option. It can be spring sown for a late summer feed behind turnips or autumn sown for winter grazing.

### Advantages

- Good regrowth potential with excellent winter keeping properties
- Good aphid tolerance
- Fast growing leafy catch crop
- High protein content
- Longer lasting than stubble turnips
- Flexible sowing period
- Sheep, dairy or beef production

### Management advice

Plant two-thirds of the crop area in early maturing BARABAS and one-third in late maturing variety BARCOLI, at the same time (not together). This will provide a high quality summer feed that can be grazed from 60-150 days after sowing.

#### Sowing rate:

Drilled: 2.5kg/acre (6kg/ha)

Broadcast: 4kg/acre (10kg/ha)

#### Pack sizes:

Available in pack sizes of 10kg or 25kg



# Barvicos

## Vetch

### Utilisation

Cutting/silage

### Sowing Period

Spring & Autumn

### Utilisation Period

Summer & Winter

### Days to maturity

70-100 days

**A common vetch, delivers a quick coverage of soil, highly productive and rich in proteins.**

BARVICOS fixes large amounts of nitrogen and is high in protein. It can be used for annual forage production either alone or in a mixture with grasses. It is also ideal for green manuring.

BARVICOS has vigorous growth and is winter hardy. It will establish and grow well on most soil types, helping to soak up nutrients and hold in the soil for use by spring cropping or reseeding.

Vetch can be used typically 70-100 days after sowing, when 30-50% of the plants have flowered.

### Advantages

- Deep rooting and improves soil structure
- Quick coverage of soil
- Highly productive and protein rich forage variety
- Can be sown both in spring and autumn
- This vetch can be sown either as monoculture or as part of mixtures with other species, such as clovers and/or annual grasses
- Good resistance to colder temperatures
- Good resistance against diseases

### Sowing rate:

Sown on own: 16-20kg/acre (40-50kg/ha)

Companion plant: 8-10kg/acre

It is recommended to sow a vetch at a depth of 2-3cm

### Pack Sizes:

Available in pack sizes of 25kg

# Artémis

## Lucerne



**YELLOW JACKET**  
RHIZOBIUM SEED COATING

- Saves labour
- Increases the certainty of optimal crop establishment
- Increased shelf life
- Survives difficult conditions

### Utilisation

Grazing and silage

### Sowing Period

Spring

### Utilisation Period

Year-round

### Days to maturity

40 days

Lucerne is a highly nutritious forage for livestock. It combines good digestibility with high proteins providing excellent milk yields or daily live weight gains. A more mature hay crop would be more suitable for feeding young stock.

### Advantages

- Perennial - Well managed crops can persist for up to 5 years
- Performs well in free draining, drier environments due to tap roots
- Dual purpose

### Potential

- One of the most underrated and underutilised forage crops available to livestock farmers in the UK
- To utilise lucerne, ensure a minimum of 50% flowering (50% of the tallest stems have a flower) prior to the first grazing/cutting. If the stand is weedy at establishment it can be grazed/cut ONCE if it is 15-20cm tall and then left to flower to a minimum of 50%
- >300 - 500 g/hd/d – rotationally grazed or cut
- High MJME and high protein, which is easily digested

### Limitations

- Legume – pH 6.0 and high levels of P to establish
- Requires good management
- For more information and advice on management, please contact us for the guide.

### Sowing rate:

8-10kg/acre (20-25kg/ha). Drill at 5-12mm deep on normal soils or up to 25mm on light sandy soils.

### Pack sizes:

Available in pack sizes of 25kg



It is estimated that around 95% of British wildflower meadows were lost after the Second World War – but thankfully, we are now seeing increased interest in native wildflowers – thanks in part to environmental stewardship schemes. Establishing flower rich margins on the edges of fields can be hugely beneficial – helping farmers maintain a healthy ecosystem and attracting insects, which in turn can help to pollinate crops.

With around 1,500 different wildflowers available in the UK, it can be hard for farmers to know which wildflowers to grow. To make it easier, Barenbrug has added 21 wildflower mixtures to the range of seeds it offers.

To demonstrate the value of wildflowers, we've been trialling some of the mixtures at Cropvale, adding colour and interest to the site as well as improving its biodiversity. If you are interested in adding wildflowers to your margins, August and September are the ideal months to sow seeds. Our range of wildflowers include both annual and perennial mixtures and can be pure wildflower or mixed with grass to satisfy a range of situations and requirements.

**Order your copy of Wildflowers for the full range or download it from our website.**

# Equestrian Hunters Grass Seed

Young, well managed grass can provide most of a horse's feed requirement. Our mixtures are designed especially for horses. A herb mixture is also available.



## GENERAL PURPOSE

Hardwearing general-purpose mixture designed to withstand the pressures of equestrian use and provide good quality grazing for horses.

- Grass varieties used have been specifically selected for roughage and low fructan content
- Produces a good, spring, dense turf
- The low fructan concentration reduces the risk of laminitis
- Strong grass plant rooting system, making the sward dense, hardwearing and persistent
- Paddock will deliver grazing and forage production
- Yields good levels of effective roughage, ideal for a fit and healthy equine gut



### In the bag

70%	Perennial ryegrass
16%	Strong creeping red fescue
8%	Meadow fescue
6%	Timothy

### 10kg packs

Sows up to 0.7 acre  
Repairs 1 acre

## TRADITIONAL MEADOW

Formulated to recreate the nutritional characteristics of a natural habitat. The mixture is ryegrass free and uses species with a less aggressive growth habit to aid diversity.

- Swards sown with this mixture are likely to be lower in fructans than a ryegrass sward, reducing the risk of laminitis
- The healthiest pasture for your horse
- Helps prevent laminitis
- Effective fibre in your horse grass
- The optimum grass seed for your horse meadow
- Good horse pasture that can be effectively managed



### In the bag

25%	Tall fescue
25%	Strong creeping red fescue
20%	Meadow fescue
15%	Timothy
15%	Smooth-stalked meadowgrass

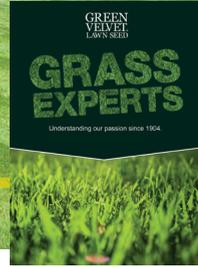
### 10kg packs

Sows up to 0.7 acre  
Repairs 1 acre



# Landscaping

Order or download your copy of  
Green Velvet Landscaping for the full range.



## THE ALL ROUNDER

A multipurpose, hard-wearing grass seed that's ideal for creating new lawns, overseeding or repairing worn patches.

- A great everyday lawn for the rough and tumble of family use
- Rapid germination and establishment
- Withstands heavy foot traffic
- Ideal for the whole family to play on and enjoy
- Attractive appearance

### The mixture

- 60% Perennial ryegrass
- 40% Strong creeping red fescue

**Sowing** 25-35g per m<sup>2</sup>  
**Oversewing** 25-30g per m<sup>2</sup>

## THE PERFECTIONIST

A fine and luxurious traditional lawn seed mixture.

- A very fine leaved and dense lawn
- High quality and beautiful looking lawn
- Improved tolerance to common lawn diseases
- Ideal for the traditional ornamental lawn

### The mixture

- 40% Strong creeping red fescue
- 30% Slender creeping red fescue
- 30% Chewings fescue

**Sowing** 25-30g per m<sup>2</sup>  
**Oversewing** 25-30g per m<sup>2</sup>

## THE ACTION HERO

A very hard wearing mixture that contains tough wearing grasses which is ideal for playing areas with high traffic.

- High levels of perennial ryegrass in this mixture give it substantial ability to withstand wear and tear
- This tough mixture is ideal for areas of the garden that are used frequently
- Hard wearing ryegrass specifically chosen for the job
- Gives an attractive lawn that's extremely tough

### The mixture

- 80% Perennial ryegrass
- 20% Strong creeping red fescue

**Sowing** 25-35g per m<sup>2</sup>  
**Oversewing** 25-30g per m<sup>2</sup>

# Your Regional Manager



## Mhairi Dawson

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# Barenbrug

**Grass experts  
since 1904**

Our profession is plant breeding; selecting and developing quality varieties with the essential, unique characteristics to meet the ever-increasing demands from farmers for top quality forage grass.

From its founding days in 1904 the Royal Barenbrug Group has grown into a global seed company with breeding and research stations on six continents.

Still privately owned, our knowledge and experience of grass seed is second to none.

We specialise in plant breeding, seed production and the international marketing of forage grass, forage crops and turf grasses.

With over 800 employees and operating companies in 20 countries on six continents, we have been the leading grass seed business in the world for over 100 years.

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[www.barenbrug.co.uk](http://www.barenbrug.co.uk)



### **Conditions of sale**

In case of unavailability Barenbrug UK Limited reserves the right to substitute any variety in any mixture with one of similar merit.

Any change will be detailed on the bag.

The placing of an order constitutes an acceptance of our terms and conditions of sale by the buyer.

Full terms and conditions can be found at [www.barenbrug.co.uk](http://www.barenbrug.co.uk).

