Northern Ireland grass and forage crops
Proudly supporting farmers
We breed our grasses in Loughgall, Northern Ireland (in partnership with AFBI)

Our grasses are tried, tested and proven with British farmers (including at our own Cropvale Research Site)

We have over 2,000 hectares of British farmland producing our grass seed

All our mixtures are designed and formulated to ensure continuous improvement for British farming
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Good quality grazed grassland is the cheapest feed for ruminant livestock and is the base upon which profitable farming is built.

Around 70% of utilisable agricultural land in the UK is given over to grass – making it one of our nations’ 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
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.
We believe there are three areas to getting grass seed mixtures right on farm:

**Persistency**
Our breeders select potential varieties with the best disease resistance and physical characteristics and test them exhaustively.

One variety takes around 5,000 plots and 16 years to come to market!

**Palatability**
Our breeders focus on key aspects such as disease resistance and low re-heading and then we test our varieties on commercial farms in various locations.

**Management**
The key to maximising grassland output and subsequent meat and milk yields!

Correct management can increase output, reduce waste, reduce reliance on expensive inputs and improve yields. Recording has just become a whole lot easier with the introduction of our Good Grass Guide.
Few farmers would rely on genetics from the past for livestock breeding but many stick with the same grass seed varieties and mixtures year after year – even if they aren’t delivering the best results.

For some farmers, the prospect of picking a new grass can seem daunting. There are hundreds of different varieties, blends and mixtures available – so how do you know which one will work best?

Our grasses have shown an average improvement of 0.5% yield per annum over the last 20 years, highlighting the benefits we’re delivering to farmers nationwide.

If you are unsure about which product to pick, we advise selecting a grass seed from one of the UK’s Recommended Lists. Bred to perform in UK conditions, grasses included on Recommended Lists have been tried and tested by farmers, who’ve seen real results.

**Grass Seed Considerations**

Grass seed research and development has come a long way in recent years and there are many new forage strains and blends available, which are proven to improve the performance and productivity of animals dramatically. High levels of dry matter production will always be a priority but consideration must also be given to palatability and persistency as well as nitrogen efficiency, drought and disease tolerance, winter survival, rumen stimulation and protein production.

Our advice for 2019 is very simple: plan ahead.

Decide what enterprise is most important to you; for example is it the all-year grazing sheep flock or the all-year housed cows in which case silage will be the key factor.

Next take into account any specific needs such as field soil types, disease pressure or potential weed burdens. Also ask, would clover be beneficial to me?

Lastly, make sure soil samples and rectifications are done well in advance of sowing. Recent soil analysis reports from across the UK still show that only around one third of grassland soils are at the target P, K or pH levels and all of these things are very influential to grass growth.
The UK has the ideal climate for growing grass. Ryegrass grows best at between 5°C to 25°C – and most of the UK is between these temperatures 95% of the time.

Making up 70% of utilisable agricultural land, grass is our national crop. Like all other crops, growing grass requires careful management to maximise yields and utilisation. It is a science – but a relatively simple one to grasp once you have a basic understanding of plant as well as animal physiology.

Armed with information about how grass grows and the different species and management techniques available, it is easy for farmers to make informed choices about what kind of grass to grow; when to sow it; when to graze it; how long to graze it for; and what to do to ensure its performance long-term.

BALLINTOY:
AFBI Breeder David Johnston with Ballintoy at our Grassland and Muck 2017 stand
While the recommended list in Northern Ireland may not exist anymore, this hasn’t stopped our dedication to producing quality grass varieties and bringing them to the market.

Looking at the England and Wales list for 2018/19, half of the early perennial ryegrass diploid varieties recommended were developed as a result of the special breeding and marketing partnership that exists between the Agri-Food and Biosciences Institute (AFBI) and Barenbrug.

The varieties are Moyola, which was first listed in 2009; Kilrea, first listed in 2005; and Glasker – added to the list in 2016.

Barenbrug varieties also dominate the intermediate perennial ryegrass tetraploid category with a third of all products (six out of eighteen) developed by the business in conjunction with AFBI. Four of the top six varieties are marketed by Barenbrug. These include Fintona, which has retained the top slot for another year plus Malone, Seagoe, Ramore, Dunluce and Caledon.

In Scotland, 2017/18 listing results are similarly strong with three new forage grass varieties set to appear on the nation’s Recommended Grass and Clover List when it is published later this year. Selecting products for its 2017/18 list, SRUC (Scotland’s Rural College) included a hybrid diploid grass from Barenbrug plus two of the company’s late perennial ryegrasses: a diploid and a tetraploid.

Mhairi Dawson, R&D Manager at Barenbrug UK, said: “The fact that our grass varieties regularly appear on Recommended Lists across the UK is testimony to the expertise of our grass breeding team. Year after year, their understanding of grass and their knowledge of grass-growing conditions across the UK ensures the development of top quality varieties that can make a significant difference to a farmer’s bottom line.”
**Ballintoy**

Ballintoy Late Tetraploid Perennial Ryegrass – Heading Date 31st May

**Exceptional silage yields**

106% compared with controls  England & Wales Recommended Grass & Clover List
109% compared with controls  SRUC Grass & Clover list (Scotland)

**High Grazing yields with outstanding quality (D-value of 78.1)**

**Impressive Spring Growth**
– high early grazing yield (112% compared with controls)

**Increased Spring Growth coupled with late maturity**
– perfect combination for extending quality and productivity in swards

**Now available in Bar Forage Cut & Graze**
Gosford Intermediate Diploid Perennial Ryegrass – Heading Date 28th May

Highly productive silage yields
101% compared with controls  England & Wales Recommended Grass & Clover List
102% compared with controls  SRUC Grass & Clover list (Scotland)

High Grazing yields with outstanding quality (D-value of 77.3)
High Grazing yields
– 107% compared with controls in SRUC Grass & Clover List (Scotland)
Impressive Grass Quality
– Grazing D-Value of 77.3

• Excellent variety choice for season long production
• Impressive Spring and late Summer/Autumn growth
• Perfect for extended grazing.

Now available in Bar Forage Permanent mixture range
As part of the development and commercialisation of the Barforage range of mixtures, in September 2017 Barenbrug established 100 grass plots at AFBI Loughgall and are running concurrent cutting and grazing trials on our varieties as well as demonstrating our Barforage mixture portfolio.

Silage Trials
Intermediate varieties
• 4 cuts taken in 2018 season
• 14th May, 22nd June, 15th August, 24th October

Late tetraploid Youpi topped the grazing trial with 112% Dry Matter, 12% over the 9 cut trial average, and a physical yield of over 17.8t DM/ha. Intermediate Tetraploid Fintona yielded 105% or 16.73t DM/ha.

Table 1.1 Average Dry Matter yields of Intermediate Tetraploid varieties at Church Field site, AFBI Loughgall.

Grazing Trials
• 9 cut simulated grazing trial taken in 2018 season

Late tetraploid Youpi topped the grazing trial with 112% Dry Matter, 12% over the 9 cut trial average, and a physical yield of over 17.8t DM/ha. Intermediate Tetraploid Fintona yielded 105% or 16.73t DM/ha.

Table 1.2 Average grazing yield (t/ha dry matter) of Tetraploid PRG varieties at Church Field site, AFBI, Loughgall.
BALLINTOY

New Late Tetraploid PRG for 2019

Topped the silage trial with 119% of the average fresh yield. This equates to just under 15t DM/ha and 115% of trial average.

Variety Seasonal Grazing Performance

As tables 1.3 & 1.4 illustrate, in order to maintain season long production from a sward, varieties must be chosen carefully in relation to their seasonal growth. Note the movement between varieties in terms of production from early April to the end of July. Bar Forage mixtures are compiled using this data to ensure grass is always available to the animal at any time of the grazing season.

Table 1.3
Early Spring growth – a vital component for extended grazing. Varieties above the average line show their worth when planning for early turnout.

Table 1.4
Mid Summer growth – Necessary to maintain swards of quality grass for grazing during extra daylight hours and good weather.
Braemar Farm

Grass into gold

Braemar Farm in Castlerock, Co. Londonderry has been in the Pollock family for three generations and is a successful enterprise managed today by husband and wife team Ian and Ruth.

Ian is in charge of the 220-acre farm and it’s 140-strong herd of Holstein cows. The cattle produce around 8,000 litres of milk a year – some of which is supplied to Green Pastures with the remainder heading straight to the Pollock’s award winning artisan ice cream business, which Ruth runs from a purpose built unit on site.

Ian said “For Green Pastures and our own ice cream business, it’s essential that our milk comes from pasture grazed cows – it really enhances the flavour of the end-product. Luckily we are located in one of the best dairy areas of Ireland with our cows grazing 30 acres of fields overlooking the sea towards Scotland. We’ve also got 190 acres that we use to produce silage – achieving over 3,000 bales last year. Since we started in the Grass into Gold scheme, we have managed to increase our first cut silage yields, something which was vital considering the weather we have had in Autumn 2017. With a marked improvement in our grass quality and sward density we can already see the benefits of healthier, better performing swards.”

Traditionally the Pollocks re-seeded every eight to nine years. However, the results of their last re-seed were disappointing. Ian contacted Barenbrug to provide advice on mixture choice and re-seeding options. David Linton, Regional Manager for Barenbrug in Northern Ireland, said: “I first visited Ian and Ruth in late April 2015 and we walked some of the swards Ian wanted to rejuvenate. The swards, while only three or four years old, were severely depleted and Ian felt their production just wasn’t up to scratch. Ian’s cows are not turned out early in spring so maximising first cut potential is essential to ensure he has enough quality forage to see him through winter. He felt his existing swards were too slow in spring and producing more silage in the second cut than the first – so we needed a solution that would maximise output early on in the growing season.”
Ian and Ruth were nervous about ploughing their fields in case it took them out of production for too long. As the fields were level and in good condition, it was agreed that Ian would burn off the existing sward and stitch new seeds into the ground using a specialist seed drill.

David recommended a mixture that would give maximum production but be easy to manage. Barenbrug’s COMBI mixture was picked. This gives top quality grass when it is most needed, with maximum production throughout the year, but extra emphasis on the first cut. Ian sowed the Combi mixture in early June and growth each year since has been very good. David continued: “COMBI is a popular choice for many farmers across Northern Ireland as it is one of the highest producing mixtures from a perennial ryegrass sward.”

Four years ago Ian moved from making clamp silage to bales. Using COMBI, he now feels he can cut when necessary – getting the best quality silage from his swards, without having to wait for all his fields to be ready at one time. This takes the pressure off when it comes to waiting for contractors, who can get delayed at other farms.

The Barenbrug partnership with Braemar farm doesn’t end there. At the RUAS Winter Fair every year at Balmoral Park, Ruth has been on the Barenbrug stand serving Braemar farm ice cream to visitors with Barenbrug’s compliments. A great example of a finished product from quality grass and proof that we really can turn “Grass into Gold”.

Bar Forage Combi – improving grass quality and yields at Braemar
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 Northern Ireland.

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.
**Short term** up to 4 years

- **Maximum yield** up to 2 years
  - **Overseeding on existing pasture**
    - Dairy, Beef, Sheep, Silage
  - **Winter cover and grazing**
    - Dairy, Beef, Sheep, Silage

**Medium to Long term**

- **Extensive grazing & cutting with clover**
  - **Mainly cutting mid-May cut**
    - Dairy, Beef, Sheep, Silage
  - **Dual purpose cut and graze**
    - Dairy, Beef, Sheep, Silage

**Medium to Long term**

- **Mainly cutting late-May, early-June cut**
  - **Dual purpose cut and graze**
    - Dairy, Beef, Sheep, Silage
  - **4 cuts, 4 years**
    - Silage
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.

<table>
<thead>
<tr>
<th>In the bag</th>
<th>Weight (kg)</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.50kg</td>
<td><strong>Gosford</strong></td>
<td>Intermediate Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>3.50kg</td>
<td><strong>Ballintoy</strong></td>
<td>Late Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>2.00kg</td>
<td><strong>Barolex</strong></td>
<td>Tall Fescue</td>
</tr>
<tr>
<td>2.00kg</td>
<td><strong>Bardoux</strong></td>
<td>Tall Fescue</td>
</tr>
<tr>
<td>1.00kg</td>
<td><strong>Baraula</strong></td>
<td>Cocksfoot</td>
</tr>
<tr>
<td>1.00kg</td>
<td><strong>Comer</strong></td>
<td>Timothy</td>
</tr>
<tr>
<td>1.00kg</td>
<td><strong>Ensign</strong></td>
<td>White Clover Blend</td>
</tr>
</tbody>
</table>

14kg per acre. Sowing: 2,814 seeds/m²
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), BAROLEX 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 BAROLEX and BARDOUX add excellent drought tolerance due to their deep rooted, persistent nature. They are also more tolerant of waterlogged soils.
Combi
Long-term

Flexible, extensive, long-term ley suited to cutting and grazing
COMBI is a clover-free version of CUT & GRAZE, giving all the benefits of a top grass sward for situations where high nitrogen input is common practice or if docks are a problem.

Its blend of the best recommended intermediate and late heading ryegrasses is designed to produce a very high-yielding, flexible, dense, palatable, long-term, top class cutting mixture which will also produce quality grazing.

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

When to cut
COMBI combines the benefits of high quality mid-May silage production with excellent sward density. Produces exceptional silage cuts of extremely nutritious forage.

When to graze
COMBI is ideal as a top quality cutting ley that will also produce a high quality, dense, palatable grazing sward.

<table>
<thead>
<tr>
<th>In the bag</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00kg  Boyne</td>
<td>Intermediate Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>3.00kg  Fintona</td>
<td>Intermediate Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>4.00kg  Glenarm</td>
<td>Late Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>3.00kg  Youpi</td>
<td>Late Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>14kg per acre. Sowing: 1,616 seeds/m²</td>
<td></td>
</tr>
</tbody>
</table>

This mixture is a blend of top performing varieties which is designed to produce a very high yielding, flexible cutting and grazing mixture.

YOUPI provides a highly digestible sward suitable for cutting or grazing which performs best early in the season with well balanced growth for the rest of the year.

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

FINTONA is the highest yielding perennial ryegrass ever in the UK with unrivalled spring grazing yields and impressive sward density for the type. As the highest yielding 2-cut silage diploid perennial, BOYNE provides maximum yield potential for silage production.
Cut & Graze
Long-term

Long-term, highly flexible dual purpose mixture.
CUT & GRAZE is a long-term, top class, highly flexible, dual purpose mixture with clover, which produces top quality forage suitable for cutting and grazing.

It produces highly palatable forage, thus creating a highly flexible ley with clover.

**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-early June first cut with the mixture averaging over 70% D value throughout the season.

**In the bag**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Grass Name</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.50kg</td>
<td>Moira</td>
<td>Intermediate Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>2.50kg</td>
<td>Fintona</td>
<td>Intermediate Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>3.00kg</td>
<td>Clanrye</td>
<td>Late Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>3.00kg</td>
<td>Glenarm</td>
<td>Late Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>2.00kg</td>
<td>Ballintoy</td>
<td>Late Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>1.00kg</td>
<td>Ensign</td>
<td>White Clover Blend</td>
</tr>
</tbody>
</table>

14kg per acre. Sowing: 1,838 seeds/m²

**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 as cut and graze, the mixture will deliver two exceptional silage cuts and early summer grazing, making it truly flexible.

This mixture delivers maximum production by using the top yielding varieties including GLENARM with its excellent first silage cut.

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

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

BALLINTOY, new for 2019, produces excellent silage yields and digestibility and provides quality grazing swards throughout the year.

Contains only AFBI bred grass varieties.
PERMANENT is a blend of perennial ryegrass, Timothy and white clover designed to give season-long production from a dense, prolific ley.

This long-term mixture gives the option of taking later cuts of top quality silage. Trials at Moorepark in Eire have shown that cows grazed on this type of ley will produce more milk - Ask us to see the fascinating report.

In the bag

<table>
<thead>
<tr>
<th>In the bag</th>
<th>3.00kg</th>
<th>Gosford</th>
<th>Intermediate Perennial Ryegrass (DIP)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3.00kg</td>
<td>Caledon</td>
<td>Intermediate Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td></td>
<td>2.00kg</td>
<td>Clanrye</td>
<td>Late Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td></td>
<td>3.00kg</td>
<td>Glenarm</td>
<td>Late Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td></td>
<td>1.50kg</td>
<td>Dundrum</td>
<td>Late Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td></td>
<td>0.50kg</td>
<td>Comer</td>
<td>Timothy</td>
</tr>
<tr>
<td></td>
<td>1.00kg</td>
<td>Ensign</td>
<td>White Clover Blend</td>
</tr>
</tbody>
</table>

14kg per acre. Sowing: 2,373 seeds/m²
**When to sow**
Perennial ryegrass germinates at 8°C; ensure this is sown when soil temperature is above 8°C, clover will germinate at 10°C.

**When to cut**
Although a grazing mixture, there is the option of taking later cuts of top quality silage if required.

**When to graze**
Designed for intensive grazing between early summer and autumn, with the aim of providing balanced production from turnout to late autumn.

PERMANENT produces a dense, leafy, persistent and easily managed ley that produces highly palatable and digestible grass.

The tetraploid varieties in PERMANENT have been carefully selected to ensure higher water soluble carbohydrate content while not sacrificing sward density.

Contains all Northern Ireland bred perennial ryegrass varieties.

Contains GOSFORD, new for 2019, an Intermediate heading diploid perennial, which is already proving its worth with high silage and grazing yields combined with excellent sward density.

Includes CLANRYE, one of the highest yielding late heading perennial ryegrass (100% of control varieties).
PERMANENT (NO CLOVER) is a blend of perennial ryegrass and Timothy designed to give season-long production from a dense, prolific ley.

The omission of clover in the mixture allows for cost effective weed control. This long-term mixture gives the option of taking later cuts of top quality silage.

In the bag

<table>
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<tr>
<th>Weight</th>
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<td>Comer</td>
<td>Timothy</td>
</tr>
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</table>

14kg per acre. Sowing: 2,112 seeds/m²
When to sow
Perennial ryegrass germinates at 8°C; ensure this is sown when soil temperature is above 8°C.

When to cut
This long-term mixture allows the option of taking later cuts, from late May, of top quality silage.

When to graze
Designed for intensive grazing between early summer and autumn, with the aim of providing balanced production from turnout to late autumn.

PERMANENT (NO CLOVER) produces a dense, leafy, persistent and easily managed ley that produces highly palatable and digestible grass.

Includes CLANRYE, one of the highest yielding late heading perennial ryegrass (100% of control varieties).

Includes CALEDON, a firm favourite in mixtures for marginal land, a dense growing variety that brings all the benefits of a tetraploid but maintain its quality should grazing or cutting be delayed.

The tetraploid varieties in PERMANENT (no clover) have been carefully selected to ensure higher water soluble carbohydrate content while not sacrificing sward density.

Contains GOSFORD, a new variety for 2019, with excellent silage and grazing yields combined with impressive sward density.

Contains all Northern Ireland bred perennial ryegrass varieties.
Permanent
No Timothy option

Intensive long-term grazing mixture with cutting option without Timothy.
PERMANENT (NO TIMOTHY) is a mixture ideally suited for farmers who want all the benefits of a cut and graze type mixture but don’t utilise their swards until later in the year.

When to sow
Perennial ryegrass germinates at 8°C; ensure this is sown when soil temperature is above 8°C, clover will germinate at 10°C.

When to cut
Although a grazing mixture, there is the option of taking later cuts of top quality silage if required.

When to graze
Designed for intensive grazing between early summer and autumn, with the aim of providing balanced production from turnout to late autumn.

PERMANENT (NO TIMOTHY) produces a dense, leafy, persistent and easily managed ley that produces highly palatable and digestible grass.

In the bag

<table>
<thead>
<tr>
<th>Quantity</th>
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<th>Description</th>
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<tbody>
<tr>
<td>4.00kg</td>
<td>Gosford</td>
<td>Intermediate Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>3.00kg</td>
<td>Caledon</td>
<td>Intermediate Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>4.00kg</td>
<td>Clanrye</td>
<td>Late Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>2.00kg</td>
<td>Dundrum</td>
<td>Late Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>1.00kg</td>
<td>Ensign</td>
<td>White Clover Blend</td>
</tr>
</tbody>
</table>

14kg per acre. Sowing: 2,373 seeds/m²

The tetraploid varieties in PERMANENT (NO TIMOTHY) have been carefully selected to ensure higher water soluble carbohydrate content while not sacrificing sward density.

Contains GOSFORD, a new variety for 2019, with excellent silage and grazing yields combined with impressive sward density.

Includes CLANRYE, one of the highest yielding late heading perennial ryegrasses (100% of control varieties).

Contains all Northern Ireland bred perennial ryegrass varieties.
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.

**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**
- Steel Italian Ryegrass (DIP)
- Barmultra II Italian Ryegrass (TET)
- Abys Italian Ryegrass (DIP)

14kg per acre. Sowing: 1,216 seeds/m²

**In the bag**

**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 hoggets.

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

High ranking BARMULTRA II has excellent spring grazing and silage yields.

Responds very positively to high levels of fertility and will produce 20% more yield than perennial ryegrass leys.
Hybrid 4x4
4 cuts, 4 years

A highly productive mixture
designed for silage.
HYBRID 4x4 is a highly productive hybrid ryegrass cutting ley, designed to last for four years and providing four cuts each year.

When to sow
Grows at temperatures as low as 5°C so the farm must be able to make use of this early growth.

When to cut
Up to four cuts per year which can take place in May, July, August and October. This is the ultimate silage mixture, yielding up to 20t DM/ha in its first year and exceeding 16t DM/ha in its second year.

In the bag

<table>
<thead>
<tr>
<th>Weight</th>
<th>Variety</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.00kg</td>
<td>Novial</td>
<td>Hybrid Ryegrass (TET)</td>
</tr>
<tr>
<td>2.00kg</td>
<td>Barsilo</td>
<td>Hybrid Ryegrass (DIP)</td>
</tr>
<tr>
<td>4.00kg</td>
<td>Kirial</td>
<td>Hybrid Ryegrass (TET)</td>
</tr>
<tr>
<td>4.00kg</td>
<td>Aston Crusader</td>
<td>Hybrid Ryegrass (TET)</td>
</tr>
</tbody>
</table>

14kg per acre. Sowing: 1,025 seeds/m²

HYBRID 4x4 delivers a superb silage mixture to farmers. It has a very tight heading date range and excellent resistance to disease offering strong silage production throughout the season.

This mixture does not contain clover, so is inexpensive to clean up sward.

Multiple exits and entries for slurry/digestate application, using home produced nutrients more efficiently.

Perfect if three and four year rotation is required.

Will produce 20% more yield than perennial ryegrass leys, due to its ability to use all nutrients very efficiently via its long season growth and usage of deep rooting varieties.
FAST GRASS establishes quickly to provide winter cover and rapid growth even at cool temperatures offering production late into autumn, delivering extra grazing opportunities over winter.

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.
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.

FAST GRASS 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

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grass Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>Westerwolds</td>
</tr>
<tr>
<td>25%</td>
<td>Italian Ryegrass (TET)</td>
</tr>
<tr>
<td>25%</td>
<td>Italian Ryegrass (DIP)</td>
</tr>
</tbody>
</table>

Sowing rate: 12-15kgs per acre
Livestock farmers in two minds about whether or not to reseed their grass should check out latest industry figures, which provide compelling financial reasons for investing in a new sward. 

Grass value

Using new industry numbers, we have calculated that farmers that don’t reseed this autumn could be missing out on grass dry matter worth around £360 per hectare (ha) on a two-cut silage system.

A sward established at the end of the 2018 grass-growing season has the potential (in 2019) to produce around 11.63 tonnes (t) of dry matter (DM) per ha from two cuts. That’s around 2.6 tDM/ha more grass than an old field made up of 50% weed and 50% productive species, which would typically yield around 9 tDM/ha. Costs are based on the assumption that DM is valued at £140/t and gains calculated do not take into account any additional cuts or autumn grazing that could increase yields further.

Energy value

When it comes to energy the value of a reseed becomes even more convincing. The yield from two cuts of a new sward could have an equivalent energy value of 133,320MJ. That’s enough energy to produce 25,150 litres of milk; more than 2050 kg of lamb; or around 2400 kg of beef.

With a new grass ley, cut at the optimum growth stage, a 72D silage with an ME of 11.5 should be easily achievable. In comparison, an old sward would have a D value of between 60-65D and ME levels of between 9.6 and 10.4. Compared to a new sward, that’s a potential energy loss of 43,320 MJ. In lost production and profit potential that equates to approximately:

- 8,170 litres of milk – at 26.7 pence per litre that’s >£2181
- More than 785 kg of beef – at 364 pp/kg that’s >£2,857
- More than 665 kg lamb – at 461 pp/kg that’s >£3,065

New ryegrass swards will also use nitrogen (N) more efficiently. Ryegrass species are 100% N efficient while weed grasses such as annual meadow grass are only 17% efficient. This means that for every £100 of N applied to an old sward up to £83 could be wasted.
Forage production is expensive – get your sward back into maximum, long-term productivity by over seeding.

**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

### In the bag

<table>
<thead>
<tr>
<th>Weight (kg)</th>
<th>Variety</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.00</td>
<td>Copeland</td>
<td>Intermediate Perennial Ryegrass (DIP)</td>
</tr>
<tr>
<td>6.00</td>
<td>Seagoe</td>
<td>Intermediate Perennial Ryegrass (TET)</td>
</tr>
<tr>
<td>6.00</td>
<td>Youpi</td>
<td>Late Perennial Ryegrass (TET)</td>
</tr>
</tbody>
</table>

Supplied as 20kg, two acre packs. Sowing: 709 seeds/m²
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.

It has an exceptionally long growing season and ‘fixes’ free nitrogen from the atmosphere for maximum production.

- By using a blend of different varieties there are always at least two that are best suited to whatever the management being applied to the sward
- Animals prefer to graze a clover/grass sward - this results in higher voluntary intakes and better animal performance
- Potential nitrogen fixation for white clover up to 150kg N/ha

### In the Bag

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Variety</th>
<th>Percentage</th>
<th>Variety</th>
<th>Percentage</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>Crusader</td>
<td>White Clover</td>
<td>30%</td>
<td>Alice</td>
<td>White Clover</td>
</tr>
</tbody>
</table>

Minimum pack size: 5kg
Sowing rate: Up to 1kg per acre.
2kg per acre for overseeding
ENSIGN RED is a blend of red clovers, which balances production through the growing season, while maintaining excellent persistency and disease resistance. Red clover swards managed correctly can meet the forage requirements of many farms and significantly improve protein contents and overall feed value of winter forage.

It’s better suited to silage production than white clover because of a more erect growth habit and its significantly higher forage yields.

- Red clover silage has a high crude protein content of 16% to 20% and a ME content of 10 to 12MJ/kg DM
- Because red clover is high in phytoestrogen, breeding sheep should be kept off for six weeks either side of tupping
- Store/fat lambs can be fattened very effectively on red clover silage aftermaths
- Low levels of structural carbohydrate in the leaf result in higher intakes, better feed conversion and therefore improved animal performance
- Potential nitrogen fixation for red clover up to 200kg N/ha

**In the bag**

<table>
<thead>
<tr>
<th>Discover</th>
<th>Red Clover</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lemmon</td>
<td>Red Clover</td>
</tr>
</tbody>
</table>

Minimum pack size: 5kg
Sowing rate: Up to 1kg per acre. 2kg per acre for overseeding
ENSIGN DUET is a unique mixture of red and white clovers, developed to meet the need for rapid nitrogen fixation to feed new leys.

Red clovers establish faster than white and are able to make nitrogen available to the ley as the white clover is establishing and brings additional benefits.

- **Increased yield.** Our mixture trials showed a yield increase of 5% in the first year after sowing, worth around £100.00 per hectare (£40.00/acre)
- **The increase continued into the second harvest year,** producing additional yields worth £75.00 per hectare (£30.00/acre)
- **Increases the overall protein content of the sward,** red clover’s protein content is around 17% compared to grasses of around 12%
- **Because red clover is high in phyto-oestrogen,** breeding sheep should be kept from grazing for six weeks either side of tupping
- **Red clover is excellent feed for growing and finishing stock**
- **Contains recommended Herbage Varieties Guide varieties**

<table>
<thead>
<tr>
<th>In the bag</th>
</tr>
</thead>
<tbody>
<tr>
<td>67%  Ensign Red  Red Clover Blend</td>
</tr>
<tr>
<td>33%  Ensign       White Clover Blend</td>
</tr>
</tbody>
</table>

Minimum pack size: 5kg
Sowing rate: Up to 1kg per acre.
2kg per acre for overseeding
Prota Plus
Grass & Clover Protein

High yielding Italian and clover blend

PROTO PLUS is designed to deliver maximum production of a very high protein forage from spring sowing, followed by an autumn and winter grazing sward suitable for sheep and overwintering cattle. It also offers a flexible alternative to forage brassicas or westerwolds.

- BARMULTRA II is a very high yielding, high quality variety, producing 10% more from a spring sowing than other recommended varieties. By using Italian ryegrass rather than westerwolds, there is no risk of contaminating arable land with self seeded grass in the sowing year.
- CONTEA Crimson clover is a very high yielding single cut annual clover, which will grow from seed to flowering in around 120 days, but should be cut before flowering for maximum quality. Its forage has a protein content of around 20% and an ME of 12-14MJ. It’s a tap rooted clover, so improving the soil structure and will “fix” over 40kg/h nitrogen.
- LIGHTENING Persian clover is a high quality, multi-cut species. It will survive in the sward, whether cut or grazed through the autumn. It has a fibrous rooting system that will improve soil organic matter.

<table>
<thead>
<tr>
<th>In the bag</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.00kg</td>
<td>Barmultra II Italian Ryegrass (TET)</td>
</tr>
<tr>
<td>4.50kg</td>
<td>Contea Crimson Clover</td>
</tr>
<tr>
<td>1.50kg</td>
<td>Lightening Persian Clover</td>
</tr>
<tr>
<td>12kg per acre</td>
<td></td>
</tr>
</tbody>
</table>

BarForage Northern Ireland 2019
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%

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**Sowing & Utilisation Guide**

<table>
<thead>
<tr>
<th></th>
<th>JANUARY</th>
<th>FEBRUARY</th>
<th>MARCH</th>
<th>APRIL</th>
<th>MAY</th>
<th>JUNE</th>
<th>JULY</th>
<th>AUGUST</th>
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<tr>
<td>FORAGE RAPE</td>
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<td>LUCERNE</td>
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<td>USE</td>
<td>SOW</td>
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<td>USE</td>
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</tbody>
</table>

**Discover our Forage Crops Guide for management advice**
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

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

**THOUSAND HEAD**
A medium height kale with excellent leaf to stem ratio (greater than 50% leaf).

**Advantages**
- Leafy type for sheep production
- Excellent crop utilisation due to highly digestible stem
- Superior animal production due to enhanced forage quality
- Good regrowth if lightly grazed during late summer

**Limitations**
- Suited to smaller stock classes and warmer climates

**Sowing rate:**
- Drilled: 12kg/acre (2.5-5kg/ha).
- Broadcast: 3kg/acre (7.5kg/ha).

**Pack Sizes:**
Available in pack sizes of 5kg or 25kg (untreated), 2kg (treated).
Kale is a well-proven, highly adaptable fodder crop which consistently provides very high yields of succulent green fodder.

**MARROW STEM**
A high yielding marrow stem type kale with clubroot tolerance. Its huge yield makes it ideal for utilisation by dairy and beef cattle.

**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

**Limitations**
- Suited to bigger cattle and colder climates

**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).
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.

**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%
- >300-500g/hd/d – rotationally grazed or cut
- High MJME and high protein, which is easily digested

**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

**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.
More reliable mixtures and individual varieties available on request.

QUALITY GAME MIXTURE
A traditional mixture of species specially selected for their feed and cover qualities.
- Will provide effective holding, feed and cover for all game birds
- Due to the variance in seed size, broadcast to achieve optimum establishment
- Establishment for set-aside under the wild bird cover option – suitable for ELS

COUNTRYSIDE MANAGEMENT WILD BIRD COVER
An alternative to the traditional game cover mixtures that will provide feeding and cover for all birds.
- Meets the requirements of stewardship schemes

**In the bag**

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>25%</td>
<td>Buckwheat</td>
</tr>
<tr>
<td>25%</td>
<td>Maize</td>
</tr>
<tr>
<td>20%</td>
<td>Sunflower</td>
</tr>
<tr>
<td>7.5%</td>
<td>Kale</td>
</tr>
<tr>
<td>7.5%</td>
<td>Forage Rape</td>
</tr>
<tr>
<td>5%</td>
<td>Mustard</td>
</tr>
<tr>
<td>5%</td>
<td>White Millet</td>
</tr>
<tr>
<td>5%</td>
<td>Red Millet</td>
</tr>
</tbody>
</table>

10kg per acre

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>80%</td>
<td>Linseed</td>
</tr>
<tr>
<td>10%</td>
<td>Kale</td>
</tr>
<tr>
<td>10%</td>
<td>Quinoa</td>
</tr>
</tbody>
</table>

10kg per acre
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, hard-wearing and persistent
- Paddock will deliver grazing and forage production
- Yields good levels of effective roughage, ideal for a fit and healthy equine gut
- Also available with herbs

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
- Also available with herbs

In the bag

<table>
<thead>
<tr>
<th>In the bag</th>
<th>10kg pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>70% Perennial ryegrass</td>
<td>25% Tall fescue Sows up to 0.7 acre Repairs 1 acre</td>
</tr>
<tr>
<td>16% Strong creeping red fescue</td>
<td>25% Strong creeping red fescue</td>
</tr>
<tr>
<td>8% Meadow fescue</td>
<td>20% Meadow fescue</td>
</tr>
<tr>
<td>6% Timothy</td>
<td>15% Timothy</td>
</tr>
<tr>
<td>15% Smooth-stalked meadowgrass</td>
<td>15% Smooth-stalked meadowgrass</td>
</tr>
</tbody>
</table>

In the bag

<table>
<thead>
<tr>
<th>In the bag</th>
<th>10kg pack</th>
</tr>
</thead>
<tbody>
<tr>
<td>25% Tall fescue</td>
<td>25% Tall fescue Sows up to 0.7 acre Repairs 1 acre</td>
</tr>
<tr>
<td>25% Strong creeping red fescue</td>
<td>25% Strong creeping red fescue</td>
</tr>
<tr>
<td>20% Meadow fescue</td>
<td>20% Meadow fescue</td>
</tr>
<tr>
<td>15% Timothy</td>
<td>15% Timothy</td>
</tr>
<tr>
<td>15% Smooth-stalked meadowgrass</td>
<td>15% Smooth-stalked meadowgrass</td>
</tr>
</tbody>
</table>

BarForage Northern Ireland 2019
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

A fine and luxury 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

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 ALL ROUNDER

#### The mixture
- 60% Perennial ryegrass
- 40% Strong creeping red fescue

<table>
<thead>
<tr>
<th>Sowing</th>
<th>25-35g per m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oversowing</td>
<td>25-30g per m²</td>
</tr>
</tbody>
</table>

### THE PERFECTIONIST

#### The mixture
- 40% Strong creeping red fescue
- 30% Slender creeping red fescue
- 30% Chewing fescue

<table>
<thead>
<tr>
<th>Sowing</th>
<th>25-30g per m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oversowing</td>
<td>25-30g per m²</td>
</tr>
</tbody>
</table>

### THE ACTION HERO

#### The mixture
- 80% Perennial ryegrass
- 20% Strong creeping red fescue

<table>
<thead>
<tr>
<th>Sowing</th>
<th>25-35g per m²</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oversowing</td>
<td>25-30g per m²</td>
</tr>
</tbody>
</table>

Order or download your copy of Green Velvet Landscaping for the full range.
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 700 employees and operating companies in 18 countries on 6 continents, we have been the leading grass seed business in the world for over 100 years.
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.