

NWF Grass & Forage Brochure



Edition 6

www.nwfagriculture.co.uk

in partnership with the grass experts

 **BARENBRUG**

Welcome to the NWF Grass & Forage Brochure

NWF Agriculture is a national manufacturer of high quality dairy, beef and sheep compounds and blends. Whatever your farming system, our trained sales specialists will work with your farm objectives to deliver feed and advice to optimise your herd or flock. All of our feeds are backed by our experienced technical team and extensive on-farm services. Our range of grass mixtures has been specifically designed to suit all livestock farming requirements. Our grass seed range is bred, grown, blended and packaged by Barenbrug UK, one of the largest grass seed breeders and producers in the UK and Europe.

Barenbrug are internationally renowned grass breeders dedicated to ensuring farmers achieve the maximum return from grass growth. Their expertise and skills have led to the development of a superb range of quality grass seed mixtures for NWF Agriculture. Supporting British farmers, Barenbrug UK breed their agricultural grasses in Britain

(in partnership with AFBI) and their grasses are tried, tested and proven with British farmers at their Cropvale Research Site in Worcestershire. There are over 3,000 hectares of British farmland producing the grass seed. All the mixtures are designed and formulated to ensure continuous improvement for British farming.



SFI & Countryside Stewardship

A comprehensive range of mixtures are available which meet the needs of various Stewardship and Environmental schemes.

The most popular of these mixtures are SAM2/CSAM2, SAM3/CSAM3, CNUM2, and CNUM3. Rules and guidance of the actions under SFI can be found at: www.gov.uk/government/collections/sustainable-farming-incentive-guidance

If you would like to know more information please contact your NWF Sales Specialist.

in partnership with the grass experts



Disclaimer

Any information provided in this grass and forage brochure is given in good faith and to the best of our existing knowledge. Any advice should therefore be taken as a general guide only and not relied upon for all conditions and circumstances. We cannot accept any legal liability for information provided within the catalogue. In any instance where there are shortages in specified varieties we reserve the right to substitute equivalent varieties.

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Barenbrug UK Grass Experts

Barenbrug UK is a leading grass seed developer, breeder and grower for UK agriculture, sport and leisure.

Established in the UK in 1983, Barenbrug UK is now recognised as the grass seed expert, distributing more than 4,500 tonnes of clean, certified, and quality grass seed each year for UK agriculture, sport and leisure. As part of the wider Barenbrug Group, grass experts since 1904, their research network across the globe and UK trial both agriculture, sport and leisure varieties and mixtures. With Barenbrug UK's network of growers, research, distribution, regional technical experts, production, and manufacturing sites across the UK, Barenbrug UK are firmly rooted in the UK.

Increasingly focused on sustainability, Barenbrug UK is determined to minimise any negative impact on the environment and meet the aims of increasing farming productivity, environment, biodiversity and the enjoyment of green spaces. Grass offers a huge number of benefits to farms, from highly productive and healthier livestock, greater management and flexibility, with increased profitability, as well as remarkable

environmental benefits such as providing a diverse range of habitats through the season for a wide range of species, cover crops and enhancing soil health and fertility. With our network of growers, research, distribution, regional technical experts, production, and manufacturing sites across the UK, we are a business firmly rooted in the UK. Learn more about the UK grass seed expert and discover our range of grass seed mixtures for UK agriculture.

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 65% of utilisable agricultural land, grass is our national crop. Like all other crops, growing grass requires careful management to maximise yields, enhance the environment, increase biodiversity, offer animal health and utilisation.



Proudly Supporting British Farmers
Bred, produced and distributed in the UK



Technical Guides

Good quality grazed grassland is the cheapest feed for livestock and is the base upon which profitable farming is built. To help UK farmers get more from their grassland, we have created our series of farming technical guides with advice and tips from the UK grass experts on how to make the most of grassland.



Designed to help 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 grass, herb and forage leys. There are also details about the different grassland management techniques, and varieties and species available to UK farmers.

Our three livestock guides offer unique and specific grassland management advice suited to your farming enterprise. The silage guide offers advice to produce the best quality silage from the grass crop you have grown, providing exceptional quality feed throughout winter.

Brassicas and forage crops can play an integral role in UK farming and we explore the benefits of forage crops and how to plan their use and manage their growth to maximise yields and profitability.



Grassland Management Guide

A comprehensive guide, packed with expert knowledge and practical tips to improve your farm's resilience, production, health, and sustainability.

Explore all our technical advice guides online or register to receive these in the post www.barenbrug.co.uk/guides



DID YOU KNOW
A reseed pays itself within the first year?

Reasons to Reseed

In comparison to an older ley, reseeding can boost production by over £3,000/ha (£1,200/acre) over five years with well managed grazed reseeds producing 10t/ha DM.

Grazed grass is the cheapest feed available on most farms, reducing the cost of bought in feed. Improved grassland in most of the UK is capable of growing over 12t DM/ha, but the current average is around 7t DM/ha (AHDB).

By relying on old varieties and old pastures, farms are missing out on millions of pounds invested in breeding technology, to produce top performing varieties resulting in better profitability.

Benefits of Reseeding

Investing in grass is investing in the whole livestock enterprise. Reseeding delivers the following benefits:

- Opportunity to address soil nutrient deficiencies and improve soil structure.
- Faster grass regrowth with more grass available in the shoulders of the season.
- 25% more responsive to nitrogen than permanent pasture.
- Opportunity to introduce clover and address weed problems.
- Increased crop yields and improve forage quality.
- Higher yields supporting higher stocking rate.
- Earlier turnout saving on concentrates.
- Better nutrient efficiency.

All Leading to:

- Healthier soils and more efficient systems.
- Improved livestock intakes and feed conversion meaning more meat and milk.
- Overall enterprise efficiency with controlled costs and optimal output resulting in increased profitability from grassland and forage.



Overseeding Guide

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

- 1 Soil Test** at least six months before. Check pH is 6-6.2 and P and K indices are 2 or above.
- 2 Check Compaction** using a spade, chop a square in the grass about 30cm deep. On one side of the square put the spade in and prise out the full sod. If the grass roots aren't penetrating down further than 10cm then you have got compaction. Another sign is if the soil is bone dry 7-15cm down. Address this if compaction is over 10cm on clay soil, sward lift or mole plough. On lighter land just sward lift.
- 3 Weed Grasses** if they make up more than 30% of the sward, harrow hard to remove them. With a sward of more than 70% weed grasses the best option is to reseed the sward.
- 4 Control Perennial Weeds** before seeding with a selective herbicide.
- 5 Tight Graze** with sheep or cut. Afterwards scarify using a spring tine harrow to open the sward up. This removes dead thatch and shallow rooted weed grasses. Ensure the tines work the top 1cm to create a tilth. Do not spread slurry or fertiliser before overseeding.
- 6 Roll** the sward to ensure good seed/soil contact to conserve moisture. Good seed bed consolidation not only helps germination, it will also reduce the movement of leatherjackets within the soil.
- 7 Control Weeds** after 4-6 weeks of sowing.
- 8 Graze Lightly** when the seedlings are 10cm high and continue at frequent intervals until the plants are well established.

Short - Medium Term

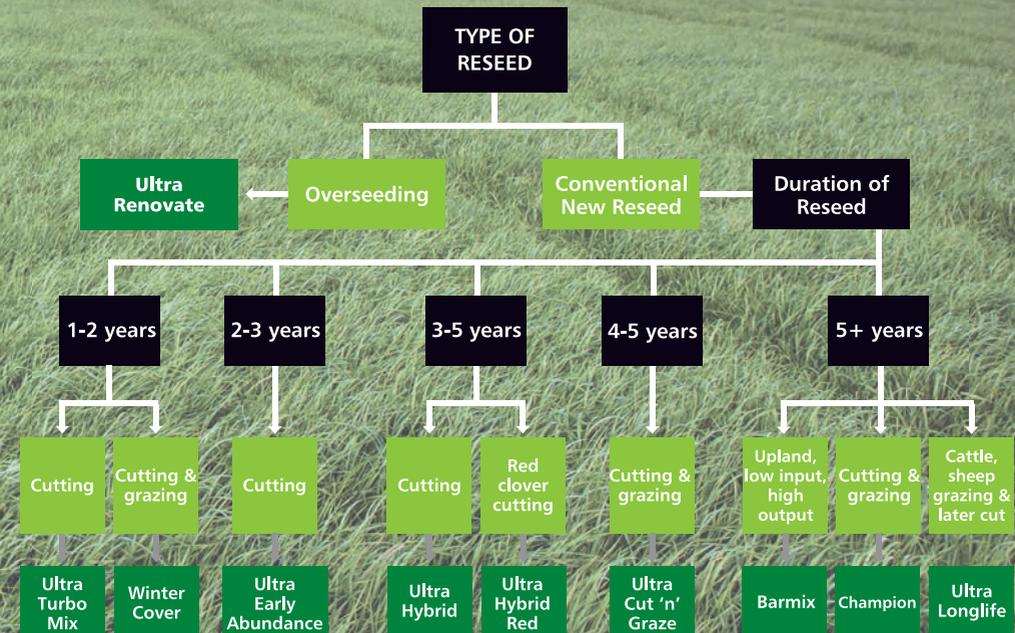
<p>Ultra Turbo Mix 1-2 Years</p>  <p>Cutting Page 10</p>	<p>Winter Cover 1-2 Years</p>  <p>Cutting & Grazing Page 11</p>	<p>Ultra Early Abundance 2-3 Years</p>  <p>Cutting Page 12</p>
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Long Term

<p>Barmix 5+ Years</p>  <p>Upland, Low Input, High Output Page 16</p>	<p>Champion 5+ Years</p>  <p>Cutting & Grazing Page 18</p>	<p>Ultra Longlife 5+ Years</p>  <p>Cattle, Sheep Grazing & Later Cut Page 20</p>
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Medium - Long Term

<p>Ultra Hybrid 3-5 Years</p>  <p>Cutting Page 13</p>	<p>Ultra Hybrid Red 3-5 Years</p>  <p>Red Clover Cutting Page 13</p>	<p>Ultra Cut 'n' Graze 4-5 Years</p>  <p>Cutting & Grazing Page 14</p>	<p>Ultra Renovate 3-5 Years</p>  <p>Overseeding Page 15</p>
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Ultra Turbo Mix™



A highly productive short term Italian ryegrass blend.

- A highly productive Italian ley.
- Grows at temperatures as low as 3°C soil temperature, extending the growing season for store lambs or wintering hogs.
- Contains high ranking **BARMULTRA II** which has excellent spring grazing and silage yields.
- High response to nitrogen inputs and high fertility situations. Ultra Turbo Mix will produce 20% more yield than perennial ryegrass leys.
- Capable of producing four cuts of high quality, high yielding silage.

Designed for:

- Producing maximum amounts of quality forage under a high input/high fertility system.
- A first cut at the end of May, producing 70+D value silage with a second cut five weeks later.
- Giving a very long growing season it is ideal for early turnout or lamb finishing.

Kg	Variety	Species
6kg	ALAMO	Italian Ryegrass (DIP)
3kg	BARMULTRA II	Italian Ryegrass (TET)
3kg	BARIMAX	Italian Ryegrass (TET)

12kg per acre, 1,216 seeds/m²

Benefits:

- Fits well into cereal crop rotation.
- Ideal for following maize and giving a two year break.
- Gives high quality aftermath grazing.

Sward management:

Grows at temperatures as low as 3°C, so the farm must be able to use this early growth. 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. Will yield up to 17tDM/ha in its first year under high input management and will achieve up to six cuts a year.

Winter Cover™



Rapid winter grass & post-arable catch crop.

- Quick establishment and rapid growth, ideal as a cover crop.
- Long lifespan, up to 24 months.
- Flexible in rotations.
- Very high quality and high producing varieties.
- Additional forage production in the late autumn, winter, and early spring; helpful for farm fodder flow and as sacrifice during calving or lambing.

Designed for:

- Ability to germinate at lower temperatures than conventional leys
- Safe sowing throughout October.
- Ability to establish faster and better than other leys even in adverse conditions of cold wet seed beds.

Benefits:

- Using the concept of “germination energy” a faster establishment rate of 20% above the average ryegrass is achieved.
- Over winter grazing.
- As a cover crop, provides ground cover to reduce soil and nutrient run-off.
- Gives an early silage cut in spring enabling entry back into maize / cereals.

Sward management:

Over winter grazing will produce a dense sward with full potential for an early silage cut in spring.

Kg	Variety	Species
9kg	ABYS	Italian Ryegrass (DIP)
10kg	BARMULTRA II	Italian Ryegrass (TET)
6kg	BARCLAMP	Hybrid Ryegrass (DIP)

12.5kg per acre packed in 25kg bags, 980 seeds/m²



Ultra Early Abundance™



The ultimate high yielding high quality short term cutting.

- A very high yielding two-three year predominantly cutting mixture.
- Responds to high inputs by producing 20% more than long term leys.
- A ley that will produce forage very early and late in the season.
- Includes **ALAMO** and **BARMULTRA II** some of the very best Italian ryegrasses available.
- **BANNFOOT** with above average density and good yield. It also has a good all round disease profile.
- Good digestibility is combined with excellent palatability and high sugars.

Designed for:

- Intensive production over an 18-36 month period.
- Up to four silage cuts with over winter grazing.
- Long grazing season from early spring to late autumn.
- Ideal as a catch crop, will give excellent production from an early spring or late summer sowing.

Benefits:

- A highly productive ley, which will give exceptional crops for silage, grazing or hay, from a high input system.
- A mixture for the farmer who wants to maximise their own production from a short term grass crop in a rotation.

Sward management:

A first cut in the middle of May will produce 70+ D value silage, with a second cut six to eight weeks later. Hybrid and Italian ryegrass responds positively to high levels of fertility, by producing 20% more yield than Perennial Ryegrass.

Kg	Variety	Species
3kg	BARCLAMP	Hybrid Ryegrass (DIP)
3kg	BANNFOOT	Hybrid Ryegrass (TET)
4kg	BARMULTRA II	Italian Ryegrass (TET)
3kg	ALAMO	Italian Ryegrass (DIP)

13kg per acre, 991 seeds/m²

Ultra Hybrid™ & Ultra Hybrid Red™



A high yielding cutting ley containing three of the best hybrid ryegrass varieties available. Designed as an intensive cutting ley producing high quality silage for 3-5 years. It fits well into medium term rotations, and is suitable for multi-cut systems and AD plants.

- Designed for a mid-May first cut.
- Available with clover if required.
- **BARCLAMP** has great ME yield, and a particularly strong first cut yield. Solid performance in monthly cuts.
- **BANNFOOT** has above average density and good yield. It also has a good all round disease profile.
- **PROTA RED** is a unique mixture of red clovers. The blend of varieties balances production through the growing season, while maintaining excellent persistency and disease resistance.

Hybrid ryegrasses grow at soil temperatures as low as 5-6°C. This lower temperature growth means the grasses get away earlier in the spring and grows later in the autumn extending the growing season and therefore production of the ley. This also allows the sowing window for Ultra Hybrid to be lengthened.

Benefits:

- Ideal for those looking to produce home grown protein crops, red clover has a protein content of between 16 and 20%.
- Will produce 10-15% more yield than Perennial ryegrass leys due to the ability to use nutrients efficiently via its long season growth.
- Ultra Hybrid delivers a superb silage mixture for farmers. It has a tight heading date range and excellent disease resistance offering strong silage production throughout the season.
- Offers multiple entries for slurry / digestate application, making the most of home produced nutrients.
- A highly productive, high protein cutting ley, giving the maximum quantity and quality.
- Red clover/grass silage is highly palatable, giving increased intakes.

Ultra Hybrid

Kg	Variety	Species
5kg	BARCLAMP	Hybrid Ryegrass (DIP)
4.5kg	BANNFOOT	Hybrid Ryegrass (TET)
4.5kg	KIRIAL	Hybrid Ryegrass (TET)

14kg per acre, 1,168 seeds/m²

Ultra Hybrid Red

Kg	Variety	Species
5kg	BARCLAMP	Hybrid Ryegrass (DIP)
3kg	BANNFOOT	Hybrid Ryegrass (TET)
3kg	KIRIAL	Hybrid Ryegrass (TET)
3kg	PROTA RED	Red Clover Mix

14kg per acre, 1,168 seeds/m²

Ultra Cut 'n' Graze™



An excellent cutting and grazing ley for up to 5 years. It will produce top quality high yielding silage cuts. Gives the option to graze after cutting.

- Outstanding early spring growth.
- Produces very high quality silage from an early cut.
- Will produce three good cuts per year.
- Grazing can be combined with cutting for a fully flexible ley.
- Combines the massive yields of hybrid ryegrass with the persistence of perennial ryegrass.

Designed for:

- Excellent early season growth, ideal for early lambing or extended grazing of dairy cows.
- Intensive cutting, up to three cuts per year, combined with high quality grazing.
- Combines the yield of hybrids with the quality and persistence of perennial ryegrass.

Benefits:

- A flexible, productive ley, ideal for those looking for early grass for sheep or cattle grazing, followed by two or three cuts of quality silage.
- When cut only, it will produce up to three prolific cuts of leafy, productive forage.
- The varieties in the ley have been selected for their digestibility and palatability, which ensures maximum animal output.
- **TOLLYMORE** has great grazing performance. Very high yield of dry matter and ME, with a strong and consistent seasonal growth curve.

Sward management:

Hybrids lower temperature growth will give excellent early spring grazing. An early spring grazing can be followed by two cuts of quality silage or a cut of hay plus aftermath grazing. The ley will also produce extremely long-season productive grazing, capitalising on the early spring and late autumn growth of the hybrid ryegrasses.

Kg	Variety	Species
2kg	BANNFOOT	Hybrid Ryegrass (TET)
3kg	BARCLAMP	Hybrid Ryegrass (DIP)
3kg	MOIRA	Intermediate Perennial Ryegrass (DIP)
3kg	TOLLYMORE	Intermediate Perennial Ryegrass (TET)
3kg	BALLINTOY	Late Perennial Ryegrass (TET)

14kg per acre, 1,361 seeds/m²
Available with clover

Ultra Renovate™



Ideal for improving the productivity of a low performing tired ley for 3-5 years.

- Ultra Renovate is a 100% ryegrass blend for areas of good fertility.
- Uses varieties which are aggressive enough to establish in an existing sward yet easy to manage.
- Specifically designed to work best with specialist overseeding techniques.

Designed for:

- Restoring productivity into underperforming leys.
- Re-introducing vigorous highly productive grasses into a sward.
- Improving the quality of a sward for better animal performance.
- Repairing damage caused by poaching.
- Use with specialist overseeding techniques.

Benefits:

- Includes varieties which are vigorous enough to establish in an existing sward.
- Easy to manage.
- Can be used spring or autumn to repair and renovate swards.
- Increases the proportion of productive grasses in a sward.

Sward management:

Existing sward should be topped or grazed short and harrowed to remove any dead material and to create some tilth for the new grass seed. Soil fertility (Ph, P,K Mg status) and structure should also be assessed to identify any underlying field issues.

Kg	Variety	Species
7kg	BANNFOOT	Hybrid Ryegrass (TET)
7kg	SEAGOE	Intermediate Perennial Ryegrass (TET)
6kg	BALLINTOY	Late Perennial Ryegrass (TET)

10kg per acre packed in 20kg bags, 707.00 seeds/m² @10kg/acre
Available with clover

Barmix



A highly successful, persistent, drought tolerant, protein rich sward for beef and sheep production from a clover-based sward.

BARMIX uses modern cocksfoot and tall fescue varieties 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.

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. With a lower proportion of ryegrass, this mixture will thrive on more marginal land and under a clover only or under lower fertility conditions and low nitrogen usage.

When to cut

Produces one or two exceptional silage cuts of extremely nutritious forage. BARMIX can be shut off mid-season after spring grazing for a big bale silage, haylage or hay cut.

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 is strongly recommended to tightly graze the sward from late winter. This stops the grass becoming too strong, allowing it to remain highly palatable to grazing animals or giving the best combination of quality and quantity when conserved.

Kg	Variety	Species
2kg	CROSSGAR	Late Perennial Ryegrass (DIP)
3kg	BALLINTOY	Late Perennial Ryegrass (TET)
4kg	BARDOUX	Tall Fescue
2kg	BARCUBY	Tall Fescue
1kg	ARCHIBALDI	Cocksfoot
1kg	BARONAISE	Timothy
1kg	PROTA WHITE	White Clover Mix

14kg per acre, 2,752 seeds/m² Pack size: 14kg

Sowing rate: 14kg per acre
 Sowing rate seeds: 2814 per m²
 Sowing depth: up to 10mm

Soil temperature: >8°C
 Min. cutting/grazing height:
 1500kg DM/ha or ~8 cm

Available without clover

1 - Yield

- **Expected Yield:** Up to 15t/ha DM from two cuts followed by grazing.
- Comparison: Older swards (e.g. Index 3 with 50% weed grasses) may yield as little as 7t/ha DM.
- **Economic Value:** At a DM value of £140/t, the extra yield from reseeding is worth £1,120/ha in the first year alone.
- **Source:** Based on 2022 RGCL list data.

2 - Energy

- **Energy from Two Cuts:** Approx. 187,420 MJ.

Livestock Output Potential:

- Over 35,362 litres of milk
- Over 3,987 kg of lamb
- Over 3,987 kg of beef

Feed Quality:

- 1st cut: 71D (11.3 ME)
- 2nd cut: 74D (11.7 ME)

Old Sward Comparison:

- Typical D-value: 60–65D
- ME: 9.6–10.4

Improvement Opportunity:

With modern varieties and optimal cutting, a 72D silage is achievable with 11.5 ME.

3 - Nitrogen Efficiency and Soil Health

- The first step in reseeding - make sure soils are in optimum health & condition.
- Even the best ryegrasses will not realise their potential when expected to grow in soil which has poor structure, is deficient in P & K and / or has a below optimum pH.
- Aim to maintain a soil pH of AT LEAST 6; pH6.5 where clover is being sown.
- P (Phosphate) and K (Potash) indices of 2.
- In ideal conditions, the major benefit of young ryegrass swards in terms of efficiency is with nitrogen.
- Ryegrass species are all 100% nitrogen efficient.
- Weed grasses like annual meadow grass are only 17% efficient.
- Meaning £83 of N is wasted for every £100 worth of N applied.

Champion with or without Clover™



#1 BEST SELLER

The number one NWF selling mixture. A proven long-term top class dual purpose mixture which produces excellent quality forage production whether cut or grazed.

- Ultimate proven ley for milk and meat production.
- Very productive and flexible 5+ year ley.
- 15kg seeding rate for rapid sward density.
- This ley includes the very best season-long production varieties available.
- Suitable for both intensive cutting and grazing, with good persistence.
- **PROTA WHITE** contributes both protein and minerals, to ensure maximum performance from the grazing animal.
- The correct proportion of tetraploids in the ley give very good animal intakes.
- **SEAGOE** an extremely strong first cut and overall yields, particularly under conservation. Good quality and crown rust resistance.
- **BANBRIDGE** an excellent variety, with class-topping conservation performance. Very high yield of dry matter and ME, with a strong silage cut growth curve.
- **MOIRA** is a consistent performer with good yield and quality. Excellent early season growth, with the highest first cut yield and early grazing yield in its class.
- **CALLAN** A dual purpose variety with great spring growth. Great mildew resistance.

Designed for:

- Top quality forage production whether cut or grazed.
- Long-term production from a highly persistent ley.
- Maximum production by using the top yielding varieties.

Benefits:

- The use of later heading varieties means that any topping can be kept to a minimum.
- The varieties used have been selected for their persistence as well as their palatability and mid-season digestibility to produce a long lasting, productive sward.
- Champion combines the benefits of high yields of quality mid-May silage production, with excellent sward density and outstanding mid-season digestibility for highly palatable grazing, thus creating a highly flexible ley.
- Available without clover as Champion No Clover.

Sward management:

Cut when the first ears emerge, around the 20th May and this ley will produce grass of 70D plus and if cutting is delayed 10 days, it will still produce grass of 67D. This ley is capable of being spring grazed, giving two highly productive silage crops and an autumn grazing, or alternatively being grazed for a full season.

Champion™ with Clover

Kg	Variety	Species
3kg	MOIRA	Intermediate Perennial Ryegrass (DIP)
2kg	SEAGOE	Intermediate Perennial Ryegrass (TET)
2kg	BANBRIDGE	Intermediate Perennial Ryegrass (TET)
2kg	CALLAN	Late Perennial Ryegrass (DIP)
3kg	BALLYVOY	Late Perennial Ryegrass (DIP)
2kg	BALLINTOY	Late Perennial Ryegrass (TET)
1kg	PROTA WHITE	White Clover Mix

15kg per acre, 2,089 seeds/2m²

Champion™ without Clover

Kg	Variety	Species
3kg	MOIRA	Intermediate Perennial Ryegrass (DIP)
2kg	SEAGOE	Intermediate Perennial Ryegrass (TET)
2kg	BANBRIDGE	Intermediate Perennial Ryegrass (TET)
3kg	CALLAN	Late Perennial Ryegrass (DIP)
3kg	BALLYVOY	Late Perennial Ryegrass (DIP)
2kg	BALLINTOY	Late Perennial Ryegrass (TET)

15kg per acre, 2,089 seeds/2m²



Ultra Longlife™



Proterra Maize and Prota Plus

A permanent pasture mixture, with the option to take later cuts of quality silage.

- A permanent pasture mixture.
- Exceptionally versatile, suitable for both cutting and grazing.
- Produces a dense, productive ley, for high quality grazing.
- Including quality white clovers **S184, ALICE, CRUSADER** and **BARBLANCA**, to ensure maximum performance of animals.
- The very high yielding Timothy, **BARONAISE**, gives mid-season production and variety to the sward.
- **BARONAISE** Timothy performs very well in cutting and grazing systems. High grazing ME yield D-values. Very strong spring and autumn yields.

Designed for:

- Intensive production from grazing a highly palatable, very digestible ley.
- Creating a tight persistent sward that is highly resistant to poaching.
- Season long grazing from early spring to late autumn.

Benefits:

- Ultra Longlife produces a dense leafy sward that is easily managed. The use of early, intermediate and late heading varieties means that production is season long.
- The varieties used have been selected for their persistence as well as their palatability and mid-season digestibility to produce a long lasting, productive sward.

Sward management:

Ultra Longlife is designed to give fantastic spring growth as well as season long production utilising a combination of early intermediate and late heading perennial ryegrass varieties and Timothy. Therefore it is ideal for farms where early spring grazing is important. Giving later fields a chance to get going. It can then be shut up for 1 or 2 cuts of silage (or hay) followed by grazing for the rest of the season.

Kg	Variety	Species
2.5kg	GLASKER	Early Perennial Ryegrass (DIP)
2kg	MOIRA	Intermediate Perennial Ryegrass (DIP)
2kg	SEAGOE	Intermediate Perennial Ryegrass (TET)
2kg	DUNDROD	Late Perennial Ryegrass (DIP)
3kg	BALLINTOY	Late Perennial Ryegrass (TET)
0.75kg	BARONAISE	Timothy
0.75kg	PROTA WHITE	White Clover Mix

13kg per acre, 2,369 seeds/m². Available without clover

Proterra Maize

PROTERRA MAIZE offers a quick and easy under sowing solution for maize crops in your rotation, producing a green cover which doesn't compete with the crop. Green manure crops are indispensable to maintain healthy soil, provide ground cover, reduce nutrient leaching and reduce soil erosion while ensuring a good yield of maize or other crop. This environmentally friendly product combines successful undersowing with significant advantages.

Benefits:

- Undersowing to increase stability and resilience.
- Quick and easy option for undersowing maize.
- Tall fescue is slower growing than ryegrass, so does not over compete with the maize crop.
- Undersowing maize helps maintain soil cover, reducing leaching and erosion, and providing a stable surface for machinery later in the season.
- Grass crop can be used after maize harvest leaching.

Kg	Variety	Species
9kg	BARCUBY	Tall Fescue
16kg	BARDOUX	Tall Fescue

12kg per hectare, 5kg per acre

Prota Plus

PROTA PLUS is an exceptionally versatile mixture of clover and grass, 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:

- Versatile mixture, very flexible in rotations with a ley length up to 18 months.
- High yields of high quality Italian ryegrass.
- Suitable for all livestock classes.
- Long growing season.
- Crimson clover is a single cut, erect annual clover. Cut before flowering for maximum quality.
- Persian clover is a multi-cut, prostrate annual clover.
- Annual clovers contribute to nitrogen fixation.
- Attractive to pollinators.
- An ideal cover crop option.

Kg	Variety	Species
6kg	BARMULTRA II	Italian Ryegrass (TET)
4.5kg	CRIMSON CLOVER	Crimson Clover
1.5kg	PERSIAN CLOVER	Persian Clover

12kg per acre

Prota White Clover Mix

Why use a blend of clover types?

- Different varieties of white clovers are best suited to different management; small leaf varieties are most suited to sheep grazing, whereas large leaf varieties are most suited to silage production.
- By using a blend of different varieties there is always at least two that are best suited to whatever the management being applied to the sward.
- The use of a blend of different clovers broadens the genetic diversity, disease and pest resistance of the clover content of the sward.

How will animals perform on a clover/grass sward?

- Animals prefer to graze a clover/grass sward; this results in higher voluntary intakes and better animal performance.
- In trials cattle grazed on a clover/grass sward had an intake of 9.2kg of dry matter per day and a liveweight gain of 1.1kg per day, compared with those grazed only on grass of 6.7kg intake and 0.8kg/day liveweight gain.
- Trials with dairy cows have shown that for each 10% increase of the white clover content of the pasture, milk yield

increases of between 0.3 and 0.45kg per cow per day.

- Therefore a sward which has a 30% clover content, which is an average for mid-summer, can be producing up to 1.35kgs of milk per cow per day more from the clover.

Are there any other benefits of white clover?

- White clover fixes atmospheric nitrogen making it available as a nutrient to feed the clover as well as the companion.
- It is estimated that white clover will fix between 100 and 280 kg N per hectare per year. The quantity of nitrogen fixed depends on soil type and husbandry.
- Grass/clover swards without fertiliser nitrogen can produce yields similar to those of pure grass swards receiving around 150kg N per hectare per year.
- The presence of white clover will reduce the development of crown rust in the grass portion of the sward.

The inclusion of white clover in a sward will improve the nutritive value of the pasture markedly, with increases in voluntary food intake and nutrient supply, particularly protein.

Kg	Variety	Species
20%	 S184	White Clover
30%	 ALICE	White Clover
30%	 BARBLANCA	White Clover
20%	 CRUSADER	White Clover

1kg per acre

Prota Red Clover Mix

PROTA RED is a unique mixture of red clovers.

The blend of varieties balances production through the growing season, while maintaining excellent persistency and disease resistance.

Red clover swards, managed correctly and used in the right circumstances can meet the forage requirements of many farms and significantly improve the protein content and overall feeding value of the winter forage. It is better suited to silage production than white clover because of much more erect growth habit, up to 80cm 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 phyto-oestrogen, 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.
- Sowing rate: 2.5kg per acre.



Brassicas & Forage



Stubble Turnip - BARKANT

Within the Brassicas family, turnips are the quickest species to establish. This a multi-graze stubble turnip, suitable for both sheep and cattle.

The very vigorous Barenbrug-bred diploid turnip, combines higher leaf production and a purple tankard root, with high sugar and dry-matter content.

Advantages

- Flexible sowing period.
- Dairy, beef or sheep production.
- Strip grazing prevents yield and quality losses from trampling and polluting.

Expert advice

BARKANT has the potential of being grazed multiple times, however the first grazing will be the most important. Both sheep and cattle can graze turnips. Strip-grazing prevents both yield and quality losses due to trampling and polluting. It is also important not to overfeed the cattle when they are allowed to graze the turnips at first. Extreme high dry matter intake of Turnips (and other Brassicas) can cause health problems. Therefore, cattle should be allowed to adjust to the change of diet.

Sowing rate: 2kg/ac; 5kg/ha

- ✔ Sow spring or summer
- ✔ Strip graze
- ✔ 60-90 days to maturity
- ✔ Utilise autumn & winter

Non-grass forage crops are a valuable tool for meeting the changing feed and energy requirements throughout the year to supplement a pasture system.

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

Forage Rape - BARCOLI

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

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

Advantages

- Good regrowth.
- Excellent winter keeping.
- Good aphid tolerance.
- Fast growing leafy crop.
- High protein content.
- Flexible sowing period.
- Dairy, beef or sheep production.

Expert advice

Plant two-thirds of the cropable area in early maturing stubble turnip and one-third in this late maturing variety **BARCOLI** forage rape, 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: 2.5-4kg/ac (6-10kg/ha)

- ✔ Sow spring or summer
- ✔ Strip graze
- ✔ 90-110 days to maturity
- ✔ Utilise autumn & winter



Artémis Lucerne

A highly nutritious forage for livestock, combining good digestibility with high protein, providing excellent milk yields and daily liveweight gains.

This perennial crop can persist for up to five years and performs well in free draining, drier environments due to tap roots. A more mature hay crop would be more suitable for feeding youngstock.

- Artémis Lucerne is top of recommended lucerne lists across Europe and the best variety available in the UK today.
- Excellent yield.
- Extreme persistent – especially in dry or cold areas.
- LUCERNE is a highly nutritious forage for livestock.
- It combines good digestibility with high protein, providing excellent milk yields and daily liveweight gains.

Artémis seeds are coated with Barenbrug's Yellow Jacket Rhizobium technology. The Barenbrug Yellow Jacket system embeds high levels of Rhizobia in a protective polymer matrix that coats individual seeds. This matrix includes a nutrient booster that contains all the essential minerals and trace elements needed to get a lucerne crop off to the very best start.

Expert Advice

- One of the most underrated and underutilised forage crops available to livestock farmers in the UK.
- To get the best from your lucerne crop, ensure a minimum of 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%.

Advantages

- Dual purpose cutting or grazing.
- High quality and high protein, easily digested.
- Deep taproots lend lucerne drought tolerance and nutrient use efficiency, and help to improve soil structure and drainage.

Limitations

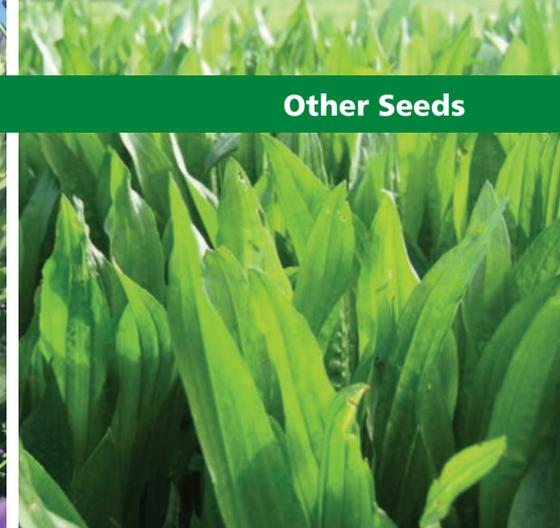
- Requires soil pH above 6.0 and high levels of P to establish.
- Requires specialised management.

Sow - spring

Use - grazing/silage

Sowing rate: 8-10kg/acre (20-25kg/ha).

Pack sizes: Available in pack sizes 25kg



Vetch

Highly productive and rich in protein with rapid soil coverage. With vigorous growth, this vetch is winter-hardy and will establish and grow well on most soil types, helping to soak up and hold nutrients in the soil for use by spring cropping or reseeded. **BARVICOS** provides nitrogen fixation and it can be used for either as monoculture or as part of mixtures with other species, such as short term grasses.

Chicory

A mineral rich herb with a long taproot, aiding drainage and soil structure, making an ideal cover crop. **COMMANDER** produces significant yields of high protein forage. Can be grown alone or in mixes. Recovers quickly after grazing and has deep taproot, delivering tolerance in dry periods, with a high tolerance to frost.

Plantain

Used to boost production and for biodiversity and nutritional quality in grass mixtures. **CAPTAIN** is suited to many soil types with high feed value and protein.

It's tap rooted to increase diversity of rooting structures in a mix.

Wildflowers

Establishing flower-rich margins on the edges of fields can be hugely beneficial, helping farmers maintain a healthy ecosystem and attracting beneficial insects, which in turn can help to pollinate crops and predate pests.

Gamecover Mixtures

A range of game cover mixtures are available please contact for more information.

Whole Crop Mixtures

Offer a flexible alternative or complimentary feed to grass and maize silage. Producing high dry matter yields and high levels of protein. These mixtures, in particular cereals, can be grown almost anywhere in the UK. With the short growing time (12-14 weeks) they offer an early entry for the following grass reseed. The most popular mix is a 60% Barley 40% Pea blend. Other mixtures are available please contact us for more information.



NWF Technical Services

NWF Agriculture offer a wide range of technical services for livestock farmers and located at our head office in Cheshire is a state of the art accredited laboratory to analyse forage samples.

NWF Technical Services

- Dairy Costings.
- Beef Costings.
- Ration Planning & Diet Formulation.
- Dung & Diet Sieving.
- Mineral Analysis.
- Interherd Reports.
- Soil Sampling.
- Forage & Feed Analysis.
- Cow & Calf Signals.
- Clamp Capacity & Forage Management.
- Body Condition & Mobility Scoring.
- Mobility Score Monitor.
- Youngstock Specialist Team & Services.

The NWF Agriculture laboratory at the head office in Cheshire analyses:

- Fresh grass.
- Silage – grass, maize & whole crop.
- Haylage.

FREE analysis for NWF customers with results processed within 48hrs* of receipt of sample (*72hrs during peak season).

NWF sales specialists work alongside farmers and in-house nutritionists to develop and sustain the correct diets to maximise herd health and output.

NWF Agriculture conforms to the Forage Analysis Assurance Scheme.



SOIL ANALYSIS KIT
From £15 for pH, P, K & Mg

NWF Soil Analysis

The NWF soil analysis service provides accurate assessment of the key nutrients that should be applied to grassland, arable and forage crops.

Results enable nutrient levels to be identified and shortfalls can be corrected with the application of fertiliser for optimum grow and crop protection. The follow nutrient levels can be accurately measured:

- Phosphorus.
- Potassium.
- Magnesium.
- pH.
- Boron.
- Sodium.
- Molybdenum (Cobalt).
- Iron.
- Manganese.
- Copper.
- Zinc.
- Sulphur.
- Calcium.

Soil samples should be taken on all fields at least once every 2-4 years. The soil where other crops are grown may need to be tested annually to ensure the information is accurate and up to date.

For arable and grassland, soil samples can be taken at any time of the year, provided fertiliser has not been applied in the past six months. Where lime has been applied, two years should be allowed before samples are taken.

Fields of up to 10ha (25 acres) can be sampled as a single unit, providing the field is uniform (soil type, past crops, lime, fertiliser usage). Large and non-uniform fields should be subdivided and each sample labelled as separate.

Taking Soil Samples

Adopting the 'W' pattern, take a representative sample from multiple points across the field, avoiding gateways, hedges, ditches and footpaths. We recommend 20 samples.

- 1 Remove the top 5cm of soil and discard.
- 2 Take a sample to a depth of 15cm for arable or 8cm for grass.
- 3 The samples should be mixed in a bucket, before being bagged.
- 4 Seal the bag securely and label before passing to your NWF sales specialist.



NWF Fertiliser

Precise crop nutrition is essential if yields are to be maximised, soil fertility is to be preserved and environmental requirements are to be met.

NWF Agriculture supply a comprehensive range of high-quality fertilisers for grass, arable or mixed farms looking for optimum yields and the best return on investment.

The NWF sales team offer a soil analysis service to ensure the right nutrients are applied to crops in the most cost-effective way. The range includes ammonium nitrate, ammonium sulphate, straights, and blends, suitable for British grassland, arable and forage crops.

NWF TOP YIELD BLENDS

NWF has a comprehensive range of high-quality standard and bespoke fertilisers supplied in 600kg bags. For balanced crop nutrition in grazing applications, choose from:

- 25-5-5.
- 27-6-6.
- 20-10-10.

For optimum yields for silage crops the standard grades include:

- 24-0-15.
- 24-0-13.

*All above available with or without sulphur.

STRAIGHTS

NWF supply a range of straights for grassland, forage and arable crops including:

- Muriate of Potash (MOP).
- Triple Super Phosphate (TSP).
- Diammonium Phosphate (DAP).
- Ammonium Sulphate.
- Granular Urea.
- Granular Lime.

AMMONIUM NITRATE & SULPHATE

NWF has a comprehensive range of high-quality standard and bespoke fertilisers supplied in 600kg bags. For balanced crop nutrition in grazing applications, choose from:

- Imported Ammonium Nitrate, 34%N a highly reliable and consistent straight nitrogen fertiliser, spreading evenly to bouts of 24m.
- 30N 20S₀₃
- 27N 12S₀₃ (CAN Blend).
- 27N 9sS₀₃ (CAN Compound).

NWF silage additives help create intelligent silage that best suits the needs of livestock. The range includes additives for grass, whole crop and maize silage, all formulated to produce quality silage with a balanced acid profile.

NWF Ultra Guard and Ultra Guard PLUS

A high-quality silage additive offering unrivalled fermentation and stability for all crops and conditions. Designed to optimise the fermentation process, maintain good palatability and to improve the forage digestibility in low sugar forages.

NWF Sila-Guard Whole Crop

A high-quality additive containing quick acting bacteria and enzymes that convert crop carbohydrates into energy for milk production. The additive has been formulated to produce a high-quality stable silage with a complementary balanced acid profile.

NWF Sila-Guard 50

A high-quality additive containing quick acting bacteria and enzymes that convert crop carbohydrates into energy for milk production. The additive has been formulated to produce a high-energy and high-quality stable silage with a complimentary balanced acid profile for livestock.

NWF Sila-Guard Maize

A high-quality premixture of technological additives perfectly suited to UK grown maize. The additive has been formulated to produce a high-quality stable silage with a complementary balanced acid profile.

Features

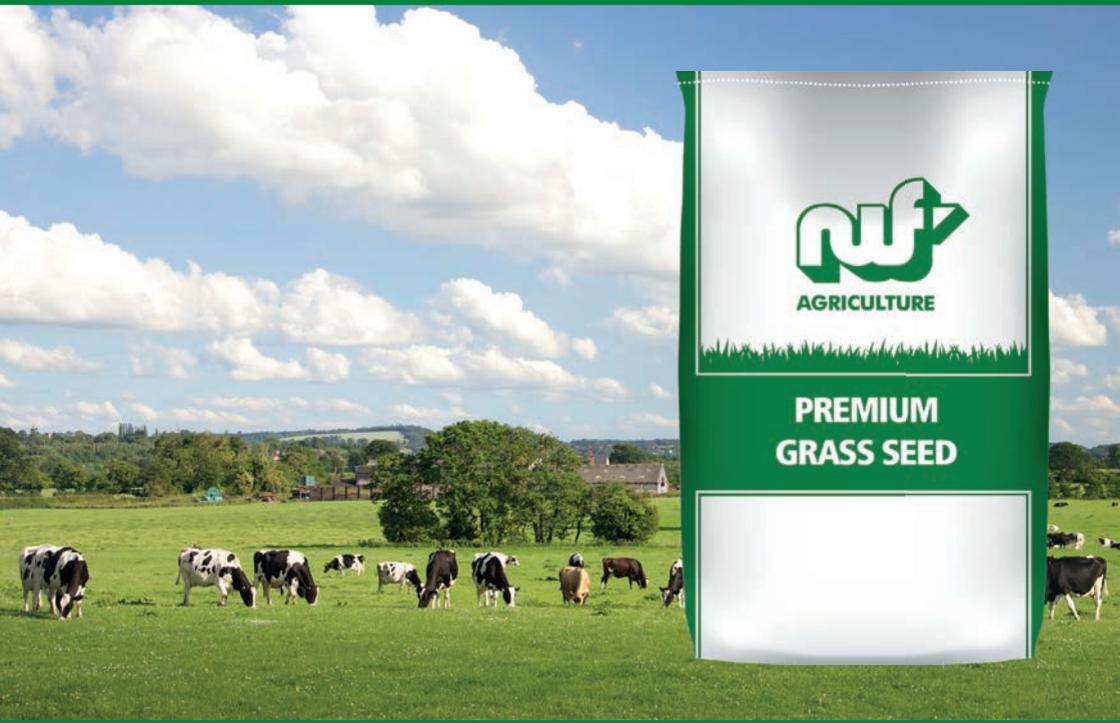
- Designed for UK weather and UK grass & crops.
- Rapid pH drop to inhibit growth of spoilage bacteria.
- Exclusive lactic acid mix.
- Microbial stimulants.

Benefits

- Improved palatability.
- Improved yields (Edinburgh University trials).
- Stable silage with minimum nutrient loss.
- More active bacteria once rehydrated.



NWF Grass & Forage Brochure *Edition 6*



NWF Agriculture is a national manufacturer of high quality dairy, beef and sheep feeds to UK farmers. All compound feeds, blends, straights and associated products are supported by expert advice and solutions from sales and technical teams.

For further information and prices
call your NWF Sales Specialist or call

01829 797100

or email sales@nwfagriculture.co.uk

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