



SINCLAIR MCGILL

GRASS MIXTURE SELECTION GUIDE



STRONG ROOTS IN GRASS

High quality, reliable grass mixtures fit for the future

WELCOME TO THE NEW LG SINCLAIR M^CGILL GRASS MIXTURE SELECTION GUIDE

Inside you'll find our new range of high performing grass mixtures that include exclusive, leading varieties of the very best seed quality, expertly put together to create mixtures that growers can be confident will deliver, year after year.

This new range utilises the combined knowledge and philosophy of two leading partners in the seed industry.

Limagrain is a global plant breeder that produces some of the world's best performing varieties. Our expert knowledge and technical innovation continue to deliver high performing genetic solutions for growers. LG varieties currently top the Recommended Lists for Winter Wheat, Winter Barley, Oilseed Rape, as well as the Descriptive List for Maize.*

Sinclair McGill's roots can be traced back over 170 years within the UK, with a philosophy that hasn't changed in that time. That is to provide the best quality products, backed up with the highest level of expertise and support. Sinclair McGill mixtures have been tried, tested and refined over many years on-farm and in trials.

Bringing together the best of LG and Sinclair McGill gives a range of mixtures which uses the most advanced technologies and research, to build on foundations shaped by decades of farm experience.

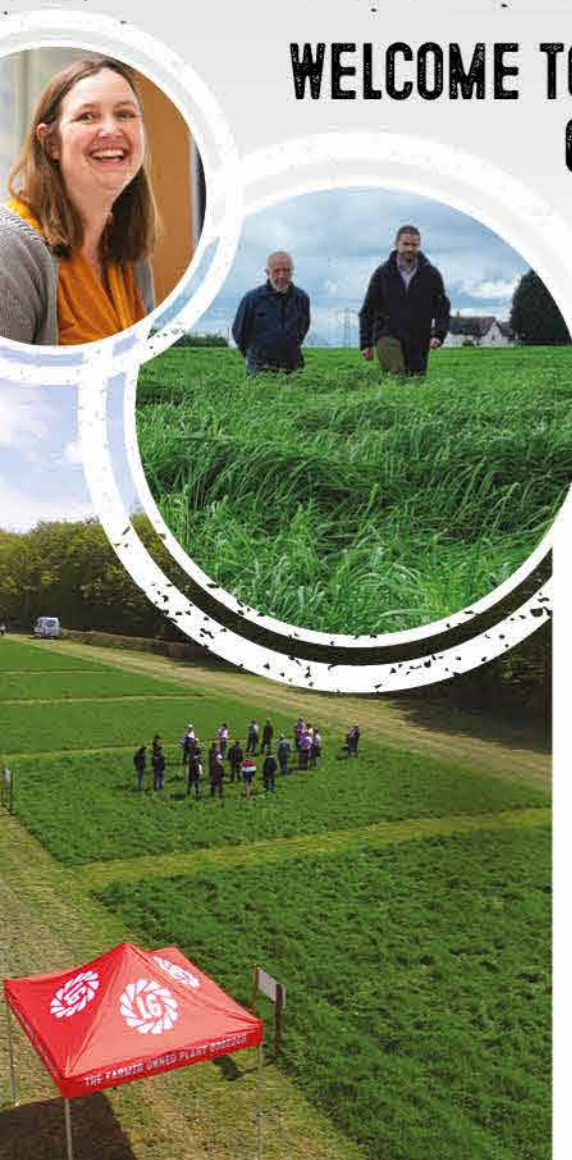
Growers that select an LG Sinclair McGill mixture can be confident that they're getting a high quality, reliable grass mixture, fit for the future.

John Spence

Forage Crops Product Manager, Limagrain UK



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WHY CHOOSE LG SINCLAIR MCGILL?

Choosing the right grass mixture when reseeding is an important decision that should benefit the productivity of any livestock enterprise for years to come. But with so many suppliers and mixtures to choose from, what makes LG Sinclair McGill stand out from the crowd?



REASONS TO CHOOSE LG SINCLAIR MCGILL

TRIED, TESTED AND TRUSTED MIXTURES

LG Sinclair McGill mixtures have been developed through a combination of farm experience, variety and mixture trials as well as animal feeding trials. The current range builds on a foundation of over 50 years of farm success, with the latest research and technology, to produce the very best mixtures available.

EXCEPTIONAL SEED QUALITY

We strive to deliver the best possible levels of purity and germination to deliver less weed seeds and more live seeds than any other company.

EXCLUSIVE AND LEADING VARIETIES

We include varieties exclusive to LG Sinclair McGill along with carefully selected varieties from other breeders that have proven performance in the UK Recommended Grass and Clover Lists, and our own variety trials.

SCIENTIFICALLY FORMULATED MIXTURES

Our mixtures are designed using the principles of sward mechanics. This means exploiting knowledge gained from scientific studies, showing the way different varieties and species interact when sown together, to formulate the best mix for each intended purpose.

LG ANIMAL NUTRITION ACCREDITATION

All LG Sinclair McGill mixtures are designed with careful consideration of the nutritional quality of the forage produced but LG Animal Nutrition accredited mixtures are at the leading edge in terms of combining nutritional attributes which significantly improve animal performance, with excellent agronomic traits.



HEADSTART GOLD SEED TREATMENT

Our core range of mixtures are all treated with HEADSTART[®] GOLD which improves establishment, gives higher plant numbers and stronger seedlings.



EXPERTISE AND SUPPORT

Whether it's from our in-house team of experts, or one of our knowledgeable authorised distributors, a customer of LG Sinclair McGill can be assured that they are only a call, click or email away from a wealth of technical information and advice.



WHY RESEED?

WHY IS RESEEDING SO IMPORTANT?

Good grass mixtures contribute hugely to lowering production costs, but as a sward ages, its yield and feed quality decreases significantly. This is caused largely by the ingress of lower yielding, lower quality weed grasses.

Reseeding gives the opportunity to replace older varieties and weed grasses with the newest genetics that offer a multitude of benefits.

IMPROVED FEED QUALITY

- Higher ME
- More digestible
- Higher sugars
- Increased protein

INCREASED PALATABILITY

- Increased voluntary intakes

BETTER STOCK HOLDING CAPACITY

- Extended growing season
- Increased drought tolerance

MORE FORAGE

- Increased silage yields
- Increased grazing yields
- Better disease resistance

MORE EFFICIENT USE OF INPUTS

- Better yield response to fertilisers
- Nitrogen fixation from clovers

AGE OF SWARD (YEARS)	RYEGRASS CONTENT (%)	YIELD (T DM/HA)	HERBAGE ME (MJ/KG DM)	LOST ME GROWN (MJ/HA)	CONCENTRATE COST TO REPLACE LOST ME (£/HA)
2	95	13.5	12	-	-
3	90	12.6	11.8	13,320	197
5	80	11.2	11.5	33,200	491
7	70	9.8	11.3	51,260	759
9	60	8.4	11.0	69,600	1,030
11	50	7.0	10.8	86,400	1,279

Source: ADHB

REDUCED FEED BILLS

The table above shows how the yield and energy content of a typical mixture changes over time and how this can lead

to increased concentrate costs. A regular reseeding programme reduces money spent on bought-in feeds.



@LGSeedsUK
lgseeds.co.uk



WHAT IS LG ANIMAL NUTRITION?



The LG Animal Nutrition (LGAN) accreditation is used to denote varieties and mixtures that deliver superior nutritional value, whilst maintaining excellent agronomic qualities and yield.

It's well recognised that newly reseeded grass will have better forage quality than an older ley, but there are also significant differences in the feed value of new varieties which need to be considered when formulating a mixture.

LGAN mixtures have been formulated by combining the optimum proportions of varieties with superior nutritional attributes, to create a mixture with an improved feed quality profile.

These mixtures have been thoroughly tested in both forage quality trials and animal feeding trials where they've demonstrated clear benefits over traditionally formulated grass mixtures.

Animal Feeding Trials Schothorst Research Institute, Netherlands

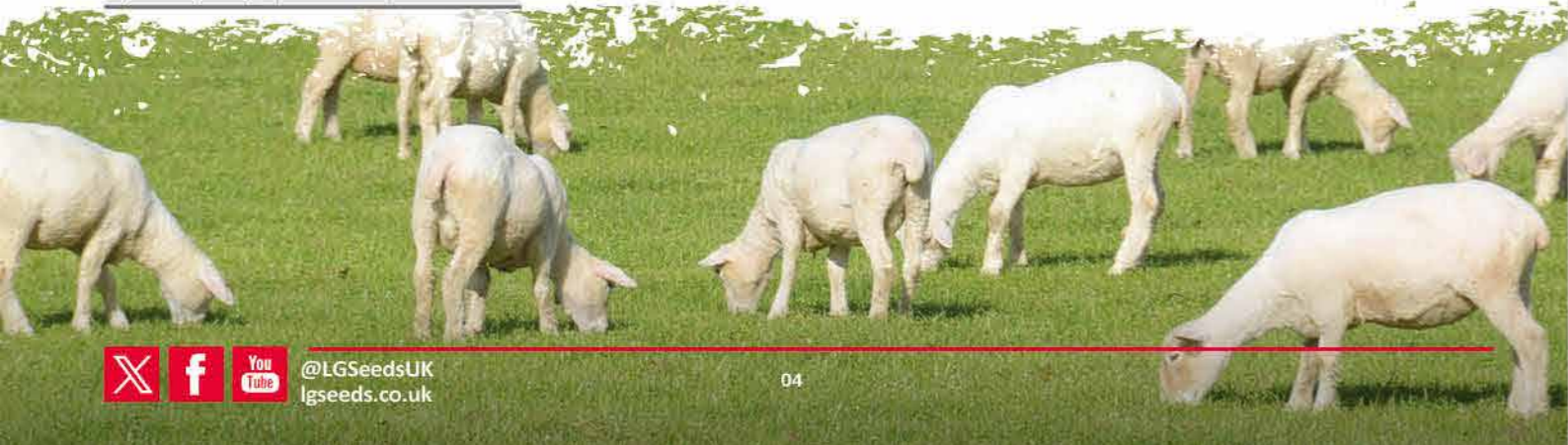
	CONTROL MIXTURE	LG ANIMAL NUTRITION MIXTURE
Feed Efficiency Milk production per kg fed	1.24	1.3
Milk yield litres per cow per day	28.5	29.9

AN ADDITIONAL 1.4 LITRES OF MILK PER DAY, WORTH AN EXTRA £147 A YEAR PER COW
(assuming 300 milking days at £0.35p/litre)

Forage Quality Trials NIAB TAG, Dartington, Devon

	CONTROL MIXTURE	LG ANIMAL NUTRITION MIXTURE
Energy content MJ/KG	13.69	13.82
Energy yield MJ/HA	134,508	160,202

AN ADDITIONAL 25,694 MJ/HA EQUIVALENT TO 4,848 LITRES OF MILK WORTH £1697/HA
(assuming £0.35p/litre)



WHAT IS LG ANIMAL NUTRITION?



WHY IS THE FEED QUALITY OF GRASS SO IMPORTANT?

SUGAR CONTENT (WSC %)

Feeding grasses with an increased sugar content has been linked to increased intakes and production

DIGESTIBLE FIBRE (dNDF %)

A 1% increase in dNDF can increase intake by up to 0.17kg per day and milk yields by 0.25kg per day (Oba & Allen, 1999). Unlike sugar content that is more variable, dNDF levels are more stable, being less affected by sunshine and temperature.

PROTEIN CONTENT (%)

Protein is a key nutrient for production and growth. High energy feeds, such as maize, need to be balanced with high protein feed, such as grass mixtures with high clover inclusion, to provide sufficient nitrogen for rumen microbes.

ENERGY CONTENT (MJ/KG DM)

Feeding forage with higher levels of M.E. (metabolizable energy) improves animal growth rate and milk output.

An LG Animal Nutrition accredited mixture with improved nutritional value, such as Intensive Grazing, has the potential to significantly improve intakes, productivity and feed efficiency.

Trial results show that when compared with a control dual purpose mixture over a 4 year period, Intensive Grazing mixture not only had higher yields than the control, but had dNDF levels 3.1% higher, potentially worth an extra £72 per cow per year.

MIXTURE	DM YIELD/HA (Tonnes)	dNDF (%)
Intensive Grazing	38.3	83.7
Control Dual Purpose	33.2	80.6
Difference	+5.1	+3.1



Each 1% increase in dNDF is equivalent to 0.25kg/cow/day milk production

3.1% = 0.8kg/cow/day
= 240kg/cow/year @ 300 milking days
= £84/cow/year @ £0.35p/l
= £12,600 per farm @ 150 cows



MIXTURE TRIALS



A key step in the continued development of our grass seed mixtures is to enter them into replicated plot trials. We've been trialling mixtures both at our own trials sites and with independent partners, such as NIAB TAG for many years.

At our Innovation Site in Lincolnshire, we test mixtures under both conservation and grazing management regimes and measure forage quality throughout the season. This has enabled us to ensure that both yield and nutritional quality is maintained through the year and for the life of the mixture.



ENHANCED GRASSES



Enhanced grasses are complex inter-generic hybrids produced by crossing fescues with ryegrass species to produce Festuloliums.

The resulting varieties offer a combination of the best traits from each species.

LG Sinclair McGill introduced the first Festulolium varieties back in 2009 and are still unique in offering both true grazing varieties, as well as cutting types.

ENHANCED GRAZING

Our unique Enhanced grazing variety is Matrix which can be found in several mixtures including Turbo Enhanced (page 26)

Matrix is a cross between diploid Perennial Ryegrass and Meadow Fescue. This gives it very different characteristics to any other Festulolium.

BENEFITS OF MATRIX

- Grows at lower temperatures than ryegrass, giving up to 3 weeks extra growth in the spring and an extra 3 weeks in the autumn
- Very rapid regrowth
- Very dense, fine-leaved sward which resists poaching and treading
- Unique growth characteristics perfectly suited to paddock management or rotational grazing systems

ENHANCED CUTTING

To take advantage of the benefits of festuloliums in cutting mixtures we use varieties such as Lofa. Lofa can be found in Colossal Enhanced (page 16).

Lofa is a cross between Italian Ryegrass and Tall Fescue.

BENEFITS OF LOFA

- Grows at lower temperatures, giving the opportunity to extend the growing season
- Better drought tolerance than Italian Ryegrass
- Improved persistency compared with Italian Ryegrass
- High seedling vigour



The UK has two quality standards of grass seed, with many mixtures only meeting UK minimum standards. Some adhere to the Higher Voluntary Standard (HVS) which has more stringent purity requirements.

Our approach is simple - we supply grass mixtures that exceed both of these standards and aim to deliver less weed seeds and more live seeds than any other company.



A 20KG BAG FROM OTHER GRASS SUPPLIERS COULD CONTAIN JUST 15KG OF VIABLE SEED!

Germination

SPECIES	UK STANDARD	HVS STANDARD	LG SINCLAIR MCGILL TARGET
Perennial Ryegrass	80%	80%	90%+
Italian Ryegrass	75%	75%	85%+
Hybrid Ryegrass	75%	75%	85%+

A 20KG BAG FROM OTHER GRASS SUPPLIERS COULD CONTAIN UP TO 0.8KG OF INERT MATERIAL AND WEED SEEDS!




Purity

SPECIES	UK STANDARD	HVS STANDARD	LG SINCLAIR MCGILL TARGET
Perennial Ryegrass	96%	98%	98%+
Italian Ryegrass	96%	98%	98%+
Hybrid Ryegrass	96%	98%	98%+



HEADSTART® GOLD

Get your grass off to a flying start.

-  **Faster establishment**
-  **Higher plant numbers**
-  **Stronger seedlings**



HEADSTART® GOLD is the latest in performance-enhancing seed treatments, developed using the latest scientific research and field experience.

HEADSTART® GOLD uses a combination of enzymes, seaweed extracts and trace elements to stimulate root formation, development and growth.

HEADSTART® GOLD comes as standard on LG Sinclair McGill mixtures where you see the **HEADSTART® GOLD** logo.

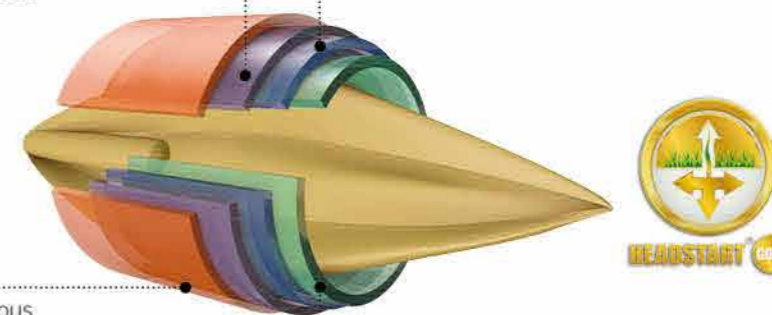
HOW IT WORKS

BIOSTIMULANTS

- Promotes the supply of nutrients
- Ensures efficient use of nutrients
- Prevents deficiency of trace elements

ENZYME ACTIVITY

- Stimulates growth of roots/shoots
- A catalyst for photosynthesis



TRACE ELEMENTS

- Copper, Molybdenum, Phosphorous and Sulphur - all essential for rapid rooting and initial seedling growth

SEAWEED EXTRACT WITH HIGH CYTOKININ CONTENT

- Promotes cell division & metabolism
- Leads to faster germination



MIXTURE SELECTION CHART



SHORT TERM 1-4 YEARS	MAINLY GRAZING 	DUAL PURPOSE 	MAINLY CUTTING
Polycrop		Page 12	
Colossal Silage			Page 13
Colossal Red			Page 14
Specialist Short Term Mixtures: Page 15 - 17			



MEDIUM TERM 4-8 YEARS	MAINLY GRAZING 	DUAL PURPOSE 	MAINLY CUTTING
Progress		Page 18	
Scotsward		Page 19	
Prosper		Page 20 - 21	
Turbo	Page 22 - 23		
Intensive Grazing	Page 24		
Specialist Medium Term Mixtures: Page 25 - 27			



LONG TERM 8-12 YEARS	MAINLY GRAZING 	DUAL PURPOSE 	MAINLY CUTTING
Castlehill		Page 28 - 29	
Castlehill Red		Page 30	
Specialist Long Term Mixtures: Page 31 - 33			



MIXTURE SELECTION CHART



HERBAL LEYS	MAINLY GRAZING 	DUAL PURPOSE 	MAINLY CUTTING
Multispecies 60	Page 34		
Multispecies 25	Page 35		
Multispecies 10	Page 35		
Multispecies Lamb	Page 36		
Multispecies Silage			Page 37



OVERSEEDING	MAINLY GRAZING 	DUAL PURPOSE 	MAINLY CUTTING
Rejuvenator Short Term		Page 38	
Rejuvenator Long Term		Page 38	
Legume & Herb Mix	Page 39		
CloverPlus		Page 39	



EQUESTRIAN	MAINLY GRAZING 	DUAL PURPOSE 	MAINLY CUTTING
Equipaddock		Page 40	
Equipaddock Gold		Page 40	
Horse Hay			Page 41
Haylage			Page 41



Our highest yielding dual purpose mixture. Polycrop® offers a great combination of high yields of quality silage with extremely palatable, leafy grazing.

- LGAN accreditation ensures both forage quality and yield
- Hybrid ryegrass inclusion gives great early spring growth, fast regrowth and higher yields than perennial ryegrasses
- High tetraploid content means high sugars and exceptional palatability to help increase intakes
- A great choice for multicut systems or zero grazing

“It's (LG Sinclair McGill) a well-respected and high quality product. This is important for my work - I don't want the seed letting me down.”

Esmor Hughes
SMG Distributor,
North-West Wales



SHORT TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)
Mixture duration: 3 to 4 years

MIXTURE FORMULATION

- 47% HYBRID RYEGRASS (TET)
- 13% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 10% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 7% LATE PERENNIAL RYEGRASS (DIP)
- 16% LATE PERENNIAL RYEGRASS (TET)
- 7% WHITE CLOVER BLEND

Also available without Clover



This mixture is treated with



A high yielding, highly digestible silage mixture formulated to produce the maximum possible energy per hectare. Colossal® Silage combines Italian and Hybrid ryegrasses to give improved yields and prize winning forage quality over 2 years.

- LGAN accreditation ensures both forage quality and yield
- Close variety heading dates allow optimum D-values to be achieved
- Up to four big silage cuts per year
- Also well suited to zero grazing or multicut systems

“Colossal® Silage is consistently our highest yielding mixture in trial. Producing 21.5t DM/ha in its first harvest year and over 240,000MJ/ha”

Richard Camplin
Forage Technical Manager



SHORT TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)
Mixture duration: 2 years

MIXTURE FORMULATION

- 40% ITALIAN RYEGRASS (DIP)
- 25% ITALIAN RYEGRASS (TET)
- 35% HYBRID RYEGRASS (TET)



This mixture is treated with

COLOSSAL[®] RED

MAINLY CUTTING



Colossal[®] Red combines the high yields of Colossal[®] Silage with the increased protein content and digestibility of red clover.

- LGAN accreditation ensures both forage quality and yield
- Clovers fix nitrogen, reducing the need for inorganic fertiliser
- Contains our Red Admiral blend of red clovers that consistently outyields single varieties
- Designed for cutting but aftermath can also be grazed
- Organic version available

“ Mixtures containing red clover typically have 3-4% higher protein than those without. Colossal[®] Red is our highest yielding red clover mixture. ”

Richard Camplin
Forage Technical Manager



SHORT TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)
Mixture duration: 3 years

MIXTURE FORMULATION



This mixture is treated with



SPECIALIST MIXTURE SELECTION CHART

SHORT TERM

Our core range of mixtures will perform well in most circumstances, but sometimes a mix tailored to a more unique situation may be required.

MIXTURE	MIXTURE PURPOSE	SPECIFIC USE	PAGE NUMBER
EARLY START	Mainly Grazing	Use where early spring growth is the highest priority for spring lamb production or early turnout	Page 16
COLOSSAL ENHANCED	Mainly Cutting	Use on drought-prone soil types where traditional ryegrasses may struggle to produce high yields	Page 16
POWER GRASS	Mainly Cutting	Use where maximum yield is required in a very short period	Page 17
CATCH CROP	Mainly Cutting	Use where maximum yield is required over 12-18 months	Page 17

Use this chart to select the right specialist short term mixture for your farm





EARLY START

MAINLY GRAZING

A mixture designed to do exactly as the name suggests - provide exceptional early spring production, allowing early turn out for lambs, cattle or dairy cows.

- Utilises Italian, Hybrid and early heading perennial ryegrasses to ensure excellent early grazing yields
- Poaching risk at early turnout is reduced by including dense perennial ryegrass varieties
- Designed for grazing but will also produce a huge first silage cut if required
- Can also be closed up after grazing for a late silage or hay production

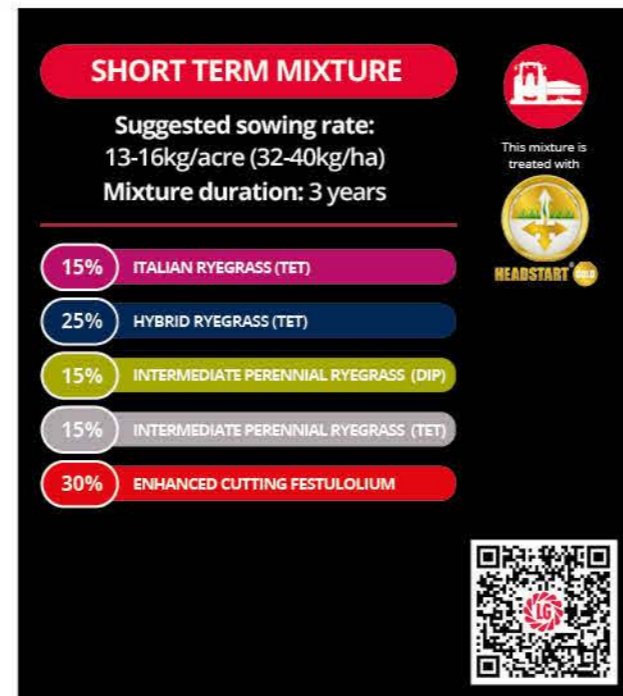


COLOSSAL ENHANCED

MAINLY CUTTING

Colossal Enhanced is a high yielding cutting mixture for those on lighter or drought-prone ground. A combination of Enhanced (Festulolium) ryegrass and deep-rooted tetraploid varieties ensures excellent stress tolerance.

- High root mass and root depth ensures more consistent production in dry conditions
- More persistent than Italian/Hybrid mixtures, ensuring good yields for the full duration of the mix
- Very responsive to applied nitrogen
- Inclusion of leafy perennials ensures high forage quality



POWER GRASS

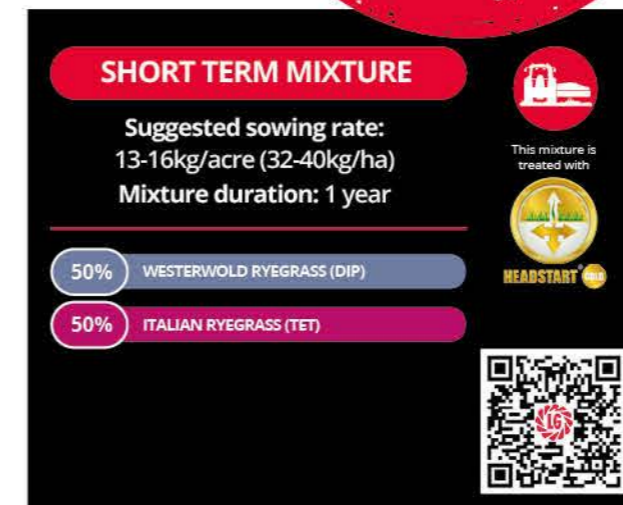
MAINLY CUTTING

Power Grass is a very high yielding mixture, designed to offer massive production in a short period of time. The mixture was originally designed to be used as feedstock in Anaerobic Digestion plants but is suited to any situation where maximum dry matter production is the aim.

- Huge yields and rapid regrowth
- Spring crops ready for silaging in 9-10 weeks
- Great response to fertiliser or manure inputs
- A good option for sowing after maize. Meets requirements for SFI action SAM2 worth £129/Ha

“When it comes to extra production, Power Grass combines fast establishment, high yielding quick fix production for multiple cuts in the same year and goes beyond the capability of a conventional short term ley. Use to bolster a shortage in forage, dry up wet unmanageable fields, or just infill around gateways or troughs.”

Rick Swait,
Key Account Manager



CATCH CROP

MAINLY CUTTING

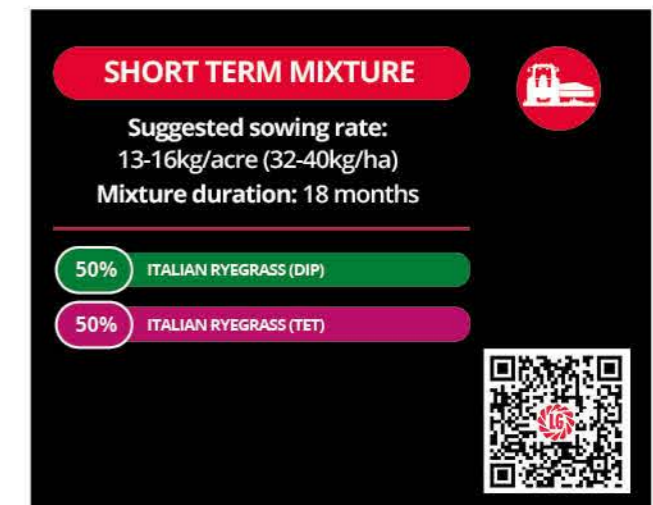
This mixture uses Italian ryegrasses to provide tremendous yields and fast regrowth over an 18 month period.

- Ideal for sowing after maize to prevent erosion and to mop up nutrients
- Good sugar content to ensure rapid silage fermentation
- Excellent early spring growth means early first cut
- A great budget short term option



“Being quick to establish, Catch Crop is ideal for sowing after maize harvest, utilising excess nutrients, helping to stabilise soil structure going into the winter period.”

Tim Richmond
Maize Product Manager





Progress® is a versatile and dependable dual purpose mixture that produces a succession of fresh grass from early spring until late autumn.

- Excellent spring growth for early turn out
- A wide heading date spread gives a more consistent growth pattern and allows cutting flexibility
- Provides both palatable grazing and high quality silage or hay
- Well suited to more extensive systems
- Organic version available

“ We’ve noticed a definite difference in daily liveweight gains in the cattle. ”
 Tom Diplock
 Beef Farmer, Surrey



MEDIUM TERM MIXTURE

Suggested sowing rate:
 13-16kg/acre (32-40kg/ha)
 Mixture duration: 5 to 8 years

MIXTURE FORMULATION

- 20% EARLY PERENNIAL RYEGRASS (DIP)
- 9% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 19% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 21% LATE PERENNIAL RYEGRASS (DIP)
- 20% LATE PERENNIAL RYEGRASS (TET)
- 6% TIMOTHY
- 5% WHITE CLOVER BLEND

Also available without Clover



This mixture is treated with



A medium to long term, mainly cutting mixture, proven to perform in harsher climates such as Scotland and Northern Ireland.

- Produces two or more cuts of high quality silage plus leafy aftermath grazing
- Includes more later heading varieties than Prosper or Progress® for increased ME silage and high quality grazing
- High Timothy content enables the mix to stand up to the mower
- One of our biggest selling mixtures

“ A hugely popular mixture with contractors, particularly in areas like south west Scotland. Customers can get three good cuts of silage each year followed by cattle grazing and then lamb grazing until the end of Feb. Slurry and fertiliser applications to boost growth and it's ready to cut again in the beginning of May. ”
 John Spence
 Forage Crops Product Manager



MEDIUM TERM MIXTURE

Suggested sowing rate:
 13-16kg/acre (32-40kg/ha)
 Mixture duration: 5 to 8 years

MIXTURE FORMULATION

- 19% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 11% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 23% LATE PERENNIAL RYEGRASS (DIP)
- 30% LATE PERENNIAL RYEGRASS (TET)
- 12% TIMOTHY
- 5% WHITE CLOVER BLEND

Also available without Clover



This mixture is treated with





PROSPER® (ENGLAND & WALES) DUAL PURPOSE

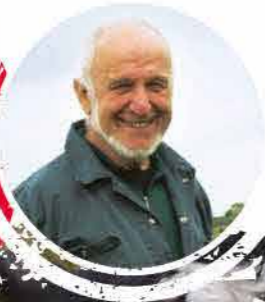


A dual purpose mixture, specifically formulated to provide a perfect balance of nutritional qualities when cut, or grazed by dairy and beef cattle.

- LGAN accreditation ensures both forage quality and yield
- Includes varieties that express superior nutritional qualities under both grazing and conservation management
- Ideal for those looking to produce two high quality silage cuts followed by excellent grazing
- High proportion of tetraploid varieties increases sugar content and palatability

“ Since we switched, we’ve had better grass, as regards cutting and grazing, than we’ve had before.”

Brian Rowley
Dairy Farmer, Derbyshire



MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

MIXTURE FORMULATION

- 17% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 41% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 16% LATE PERENNIAL RYEGRASS (DIP)
- 21% LATE PERENNIAL RYEGRASS (TET)
- 5% WHITE CLOVER BLEND

Also available without Clover



PROSPER® (SCOTLAND & NORTHERN IRELAND) DUAL PURPOSE



A version of Prosper® that uses varieties and species with proven performance in Scotland, Northern Ireland and Northern England.

- LGAN accreditation ensures both forage quality and yield
- Includes varieties that express superior nutritional qualities under both grazing and conservation management
- Ideal for those looking to produce two high quality silage cuts followed by excellent grazing
- Includes Timothy for improved early spring and late summer production, together with increased winter hardiness

“ Gone are the days that one seed mix suits all. The best results come from selecting the right mixture for the farm and the system, which I can do with Sinclair McGill.”

David Hall
SMG Distributor, Cumbria



MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

MIXTURE FORMULATION

- 17% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 38% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 13% LATE PERENNIAL RYEGRASS (DIP)
- 20% LATE PERENNIAL RYEGRASS (TET)
- 7% TIMOTHY
- 5% WHITE CLOVER BLEND

Also available without Clover





TURBO® (ENGLAND & WALES)

MAINLY GRAZING



Turbo® combines excellent yields, fast regrowth, forage quality and persistency to produce our best all-round grazing mixture.

- LGAN accreditation ensures both forage quality and yield
- Fast growing ryegrasses are enhanced by Matrix Festulolium to make a mixture that excels in paddock grazing systems, as well as set stocking
- High Tetraploid content and excellent disease resistance helps ensure excellent palatability through the season
- Perfectly suited to intensive dairy, beef or sheep systems
- Organic version available

“Turbo® is ideal for paddock grazing systems, fast regrowth and longer grazing periods.”

John Spence
Forage Crops Product Manager



MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

MIXTURE FORMULATION

- 7% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 17% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 22% LATE PERENNIAL RYEGRASS (DIP)
- 41% LATE PERENNIAL RYEGRASS (TET)
- 7% ENHANCED GRAZING FESTULOLIUM
- 6% WHITE CLOVER BLEND

Also available without Clover

This mixture is treated with



TURBO® (SCOTLAND & NORTHERN IRELAND)

MAINLY GRAZING



A version of Turbo® that uses varieties and species with proven performance in Scotland, Northern Ireland and Northern England.

- LGAN accreditation ensures both forage quality and yield
- Fast growing ryegrasses are enhanced by Matrix Festulolium to make a mixture that excels in paddock grazing systems, as well as set stocking
- High Tetraploid content and excellent disease resistance helps ensure excellent palatability through the season
- Includes Timothy for improved early spring and late summer production, together with increased winter hardiness

“If you’ve not grown Turbo® before, you might well be surprised by the speed of regrowth after grazing.”

John Heaphy
Key Account Manager



MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

MIXTURE FORMULATION

- 7% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 17% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 22% LATE PERENNIAL RYEGRASS (DIP)
- 33% LATE PERENNIAL RYEGRASS (TET)
- 8% TIMOTHY
- 7% ENHANCED GRAZING FESTULOLIUM
- 6% WHITE CLOVER BLEND

Also available without Clover

This mixture is treated with



INTENSIVE GRAZING

MAINLY GRAZING



Intensive Grazing is the ultimate cattle grazing mixture, outperforming all other grazing mixtures in both yield and forage quality.

- LGAN accreditation ensures both forage quality and yield
- Contains all tetraploid grasses for increased sugar content, palatability and grazing utilisation
- Late heading mixture to ensure grasses maintain quality, without becoming stemmy
- Perfectly suited to intensive dairy or beef systems

“ Intensive Grazing mix promises to deliver good palatability, a high yield of energy, and a good balance of protein and digestible fibre. All of which add up to maximise animal performance at grass. ”

Toby Green
Key Account Manager



MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

MIXTURE FORMULATION

93% LATE PERENNIAL RYEGRASS (TET)

7% WHITE CLOVER BLEND

Also available without Clover

This mixture is treated with



SPECIALIST MIXTURE SELECTION CHART

MEDIUM TERM

Our core range of mixtures will handle most circumstances well, but sometimes a mix tailored to a more unique situation might be required.

MIXTURE	MIXTURE PURPOSE	SPECIFIC USE	PAGE NUMBER
EXTRA LAMB	Dual Purpose	Use for intensive sheep production	Page 26
TURBO ENHANCED	Mainly Grazing	Use for rotational grazing systems and an extended growing season	Page 26
ADMIRAL'S CHOICE	Mainly Cutting	Use where maximum protein content and exceptional silage digestibility is the priority	Page 27
MULTICUT	Mainly Cutting	Use for multicut systems	Page 27



Use this chart to select the right specialist medium term mixture for your farm





EXTRA LAMB

DUAL PURPOSE

Extra Lamb is the mixture to use to maximise production for sheep enterprises.

- Uses varieties with good early season growth to provide excellent spring production for outdoor lambing
- Includes a high proportion of dense diploid ryegrasses and Cheviot white clover blend, specially developed to tolerate close grazing
- High Timothy content improves early spring and late summer production, together with increased winter hardiness
- Can be dosed off to produce high yielding, high quality silage cuts if needed

MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

13% INTERMEDIATE PERENNIAL RYEGRASS (DIP)

30% INTERMEDIATE PERENNIAL RYEGRASS (TET)

40% LATE PERENNIAL RYEGRASS (DIP)

10% TIMOTHY

7% WHITE CLOVER BLEND

This mixture is treated with

This mixture is treated with

HEADSTART

TURBO ENHANCED

MAINLY GRAZING

Turbo Enhanced is an intensive grazing mixture that produces forage of excellent nutritional value over an extended grazing season.

- LGAN accreditation ensures both forage quality and yield
- Contains a high proportion of Matrix Enhanced Ryegrass to extend the growing season
- Exceptional ground cover helps resist poaching and increases persistence
- The perfect mixture for rotational paddock systems

MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

15% LATE PERENNIAL RYEGRASS (DIP)

30% LATE PERENNIAL RYEGRASS (TET)

40% ENHANCED GRAZING FESTULOLIUM

5% TIMOTHY

10% WHITE CLOVER BLEND

This mixture is treated with

HEADSTART

Also available without Clover



ADMIRAL'S CHOICE

MAINLY CUTTING

Admiral's Choice produces silage with the highest protein content of any of our mixtures, reducing the need for supplementation in the diet.

- LGAN accreditation ensures both forage quality and yield
- High protein red clover, combined with high sugar tetraploid grasses, produce a superb quality feed
- More digestible and more persistent than Colossal® Red
- Produces high protein silage that complements high energy feeds, such as maize

MEDIUM TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)

Mixture duration: 4 years

70% LATE PERENNIAL RYEGRASS (TET)

30% RED CLOVER BLEND

This mixture is treated with

HEADSTART

MULTICUT

MAINLY CUTTING

A high quality, medium term silage mixture, designed to excel when cut more frequently within a multi-cut system. Multicut will also give high yields of exceptional quality forage under conventional conservation management.

- LGAN accreditation ensures both forage quality and yield
- Close variety heading dates allow optimum D-values to be achieved
- Intermediate heading varieties give a balance of quick regrowth and excellent forage quality
- More persistent than mixtures featuring Italian and Hybrid ryegrasses

MEDIUM TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 5 to 8 years

37% INTERMEDIATE PERENNIAL RYEGRASS (DIP)

56% INTERMEDIATE PERENNIAL RYEGRASS (TET)

7% WHITE CLOVER BLEND

This mixture is treated with

HEADSTART

Also available without Clover





CASTLEHILL® (ENGLAND & WALES)

DUAL PURPOSE



Castlehill® is a versatile dual purpose mixture with proven on farm performance across most soil types, climates, livestock classes and management systems.

- A traditional long term mixture, utilising modern grass varieties
- Reliable high performance means Castlehill® is consistently our best selling mixture
- Delivers the cutting and grazing performance of a medium term ley, with the persistency of a long term ley
- Superb disease resistance helps ensure palatability and longevity
- Organic version available

“ Rock solid performances in yield, nutritional qualities, flexibility and longevity. Our focus is firmly on improving livestock production from grass cost-effectively, so it is critical that we incorporate the latest advances in varieties into our high-performing mixtures. ”

Graham Parnell
Key Account Manager



LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years

MIXTURE FORMULATION



Also available without Clover



CASTLEHILL® (SCOTLAND & NORTHERN IRELAND)

DUAL PURPOSE



A version of Castlehill® that uses a diverse range of varieties and species with proven performance in Scotland, Northern Ireland and Northern England.

- A traditional long term mixture, utilising modern grass varieties
- Reliable high performance means Castlehill® is consistently our best selling mixture
- Delivers the cutting and grazing performance of a medium term ley, with the persistency of a long term ley
- Includes Meadow Fescue and Timothy to increase production at lower temperatures and in more marginal environments

“ For an easy care, well-engineered long term grass ley, sow only Castlehill® ”

Jan Vos
Agrivista

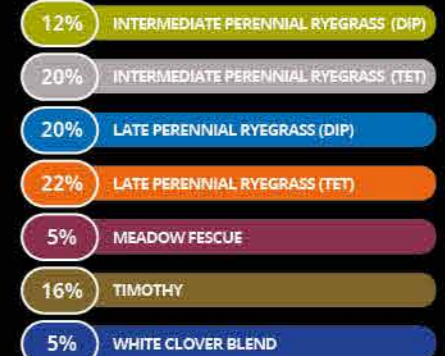


LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years

MIXTURE FORMULATION



Also available without Clover





CASTLEHILL® RED

DUAL PURPOSE



A version of Castlehill® with both Red and White Clover to increase protein and digestibility.

- High clover inclusion means forage has increased protein content, as well as improved mineral and trace element content
- Nitrogen fixation by clovers allows reduced fertiliser usage
- Both Red and White Clover have been shown to increase milk yield and liveweight gains, compared to grass-only swards
- A diverse range of species increases resilience to different climatic conditions and helps improve soil structure

“ Take our biggest selling long term ley and add red clover. You get higher protein, increased digestibility and more nitrogen fixation, reducing fertiliser bills. ”

John Heaphy
Key Account Manager



LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)
Mixture duration: 8 to 12 years

MIXTURE FORMULATION



This mixture is treated with



SPECIALIST MIXTURE SELECTION CHART

LONG TERM

Our core range of mixtures will perform well in most circumstances, but sometimes a mix tailored to a more unique situation might be required.

MIXTURE	MIXTURE PURPOSE	SPECIFIC USE	PAGE NUMBER
LAMBHILL	Mainly Grazing	Use for sheep production on marginal land or extensive systems	Page 32
EMERALD HILL	Dual Purpose	Use in areas with high rainfall and milder winters, similar to the climate found in Ireland	Page 32
CASTLEPARK	Dual Purpose	Use where drought tolerance is the priority	Page 33
MEADOW MIXTURE	Dual Purpose	Use where the aim is to produce a traditional meadow	Page 33

Use this chart to select the right specialist long term mixture for your farm





LAMBHILL

MAINLY GRAZING

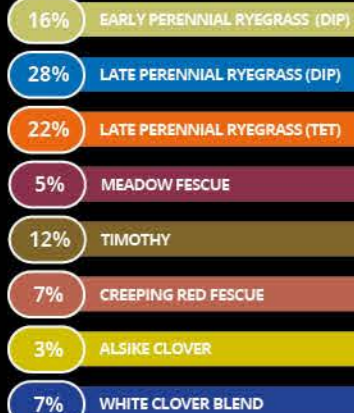
Lambhill is a grazing mixture specially formulated to meet the demands of sheep enterprises on more marginal land.

- Includes new varieties of more traditional species, such as Fescues and Alsike, that withstand harsher environments
- Includes a high proportion of dense diploid ryegrasses and Cheviot white clover blend, specially developed to tolerate close grazing
- Inclusion of Timothy and early heading Perennial Ryegrass varieties give excellent early season growth
- Perfectly suited to extensive systems, upland reseeds and wet ground

LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years



This mixture is treated with



HEADSTART



EMERALD HILL

DUAL PURPOSE

Emerald Hill is a dual purpose mixture with similar characteristics to Prosper but utilises varieties selected from the Irish Recommended List.

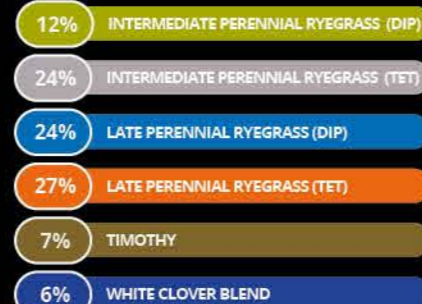
- Will produce two cuts of high quality silage followed by excellent leafy grazing
- Includes varieties Fintona and Meiduno both awarded the maximum 5 stars for grazing utilisation in 2023
- Slightly later heading than Prosper ensures stem free production for much of the season
- Contains large and small leaved white clovers to give both high yields and persistency



LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years



This mixture is treated with



HEADSTART



CASTLEPARK

DUAL PURPOSE

Castlepark is a dual purpose mixture with exceptional drought tolerance.

- Contains deep rooted Tetraploid varieties, Festulolium and Cocksfoot to perform on very light or drought-prone soils
- Timothy and early heading perennial ryegrass give great early spring growth and rapid regrowth
- Will produce excellent silage yields and should then be grazed frequently to ensure cocksfoot doesn't form tussocks
- A modern day version of the traditional Cockle Park type mixtures

LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years



This mixture is treated with



HEADSTART



MEADOW MIXTURE

DUAL PURPOSE

Meadow Mixture is a non-ryegrass, diverse mixture for those wishing to create a traditional meadow.

- Contains seven different species of grass and three legumes that replicate naturally occurring habitats
- Can be grazed or cut for silage but best suited to hay production
- Tolerates low fertility situations
- Relatively slow-growing species form a perfect base to add in other herbs and wildflowers



LONG TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)

Mixture duration: 8 to 12 years





MULTISPECIES 60

MAINLY GRAZING



A high performing mixture suitable for most soil types. Contains 60% herbs and legumes, to maximise the benefits of herbal leys.

- A resilient mixture that gives high yields over an extended growing season with minimal inputs
- Varied root depths and structure improve soil structure and health
- Includes species considered to have anthelmintic properties, reducing worm burden
- Meets requirements for SFI action SAM3: *Herbal leys* and GS4: *Legume and herb-rich swards*, worth £382/Ha per year

Our original multispecies mixture. The composition of Multispecies 60 is based on a similar complex herbal mixture that increased animal performance and reduced parasitic burden in research carried out at University College Dublin.

John Spence
Forage Crops Product Manager



HERBAL LEYS MEDIUM TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)
Mixture duration: 5 years

MIXTURE FORMULATION

- 15% LATE PERENNIAL RYEGRASS (DIP)
- 5% MEADOW FESCUE
- 5% TIMOTHY
- 10% ENHANCED GRAZING FESTULOLIUM
- 5% TALL FESCUE
- 10% RED CLOVER
- 5% WHITE CLOVER
- 5% ALSIKE CLOVER
- 4% BIRD'S FOOT TREFOIL
- 10% SAINFOIN
- 10% FORAGE CHICORY
- 10% FORAGE PLANTAIN
- 2% YARROW
- 4% SHEEP'S BURNET



MULTISPECIES 25

MAINLY GRAZING

A high performing mixture suitable for most soil types, containing 25% herbs and legumes.

- A similar mixture to Multispecies 60 with the same levels of Red and White Clover and an increased proportion of productive grass species
- Varied root depths and structure improve soil structure and health
- Includes species considered to have anthelmintic properties, reducing worm burden
- Meets requirements for SFI action SAM3: *Herbal leys* and GS4: *Legume and herb-rich swards*, worth £382/Ha per year

HERBAL LEYS MEDIUM TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)
Mixture duration: 5 years



- 40% LATE PERENNIAL RYEGRASS (DIP)
- 5% MEADOW FESCUE
- 7.5% TIMOTHY
- 15% ENHANCED GRAZING FESTULOLIUM
- 7.5% TALL FESCUE
- 10% RED CLOVER
- 5% WHITE CLOVER
- 0.5% ALSIKE CLOVER
- 0.5% BIRD'S FOOT TREFOIL
- 5% SAINFOIN
- 1% FORAGE CHICORY
- 2% FORAGE PLANTAIN
- 0.5% YARROW
- 0.5% SHEEP'S BURNET



MULTISPECIES 10

MAINLY GRAZING



An economy herbal mixture containing 10% herbs and legumes.

- Contains a diverse range of productive grass species
- Varied root depths and structure improve soil structure and health
- Meets the requirements for SFI action SAM3: *Herbal leys* worth £382/Ha per year
- Not suitable for GS4: *Legume and herb-rich swards*

HERBAL LEYS MEDIUM TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)
Mixture duration: 5 years



- 20% INT. PERENNIAL RYEGRASS (TET)
- 40% LATE PERENNIAL RYEGRASS (DIP)
- 5% MEADOW FESCUE
- 5% TIMOTHY
- 15% ENHANCED GRAZING FESTULOLIUM
- 5% TALL FESCUE
- 3% RED CLOVER
- 3% WHITE CLOVER
- 0.5% ALSIKE CLOVER
- 0.5% BIRD'S FOOT TREFOIL
- 0.5% SAINFOIN
- 1% FORAGE CHICORY
- 0.5% FORAGE PLANTAIN
- 0.5% YARROW
- 0.5% SHEEP'S BURNET





MULTISPECIES LAMB

MAINLY GRAZING



A herbal mixture with 25% legumes and herbs, designed specifically for sheep grazing

- Contains grass varieties and species selected for early spring growth and tolerance of tight grazing by sheep and lambs.
- Does not include Red Clover so as to reduce any potential bloat or fertility issues
- Meets the requirements for SFI action SAM3: Herbal leys worth £382/Ha per year

“Some of my sheep farming customers have been put off multispecies mixtures because they often include high levels of red clover that could potentially cause fertility issues with breeding ewes. This mix has no red clover, includes herbs more tolerant to close grazing by sheep and still meets the requirements for SFI action SAM3.”

Graham Parnell
Key Accounts Manager



HERBAL LEYS MEDIUM TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)
Mixture duration: 5 years



MIXTURE FORMULATION

- 10% EARLY PERENNIAL RYEGRASS (DIP)
- 10% INTERMEDIATE PERENNIAL RYEGRASS (DIP)
- 10% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 17.5% LATE PERENNIAL RYEGRASS (DIP)
- 5% MEADOW FESCUE
- 7.5% TIMOTHY
- 10% ENHANCED GRAZING FESTULOLIUM
- 5% CREEPING RED FESCUE
- 5% WHITE CLOVER
- 0.5% ALSIKE CLOVER
- 0.5% BIRD'S FOOT TREFOIL
- 1% SAINFOIN
- 10% FORAGE CHICORY
- 7% FORAGE PLANTAIN
- 0.5% YARROW
- 0.5% SHEEP'S BURNET



MULTISPECIES SILAGE

MAINLY CUTTING



A herbal mixture with 25% legumes and herbs, designed specifically to produce high yields of quality silage.

- Contains hybrid ryegrass and cutting festulolium to boost production
- Includes Red Clover for high protein together with Sainfoin for increased levels of rumen protected protein and reduced bloat risk
- Does not contain Forage Chicory that can become stemmy and puncture bale wrap
- Meets requirements for SFI action SAM3: Herbal leys and GS4: Legume and herb-rich swards, worth £382/Ha per year

“Most multispecies mixtures are designed to be grazed and so yield and persistency of herbs can be an issue under conservation management. This mix uses species of grass, legumes and herbs selected to maintain silage production for the life of the mix.”

John Spence
Forage Crops Product Manager



HERBAL LEYS MEDIUM TERM MIXTURE

Suggested sowing rate:
11-13kg/acre (27-32kg/ha)
Mixture duration: 4 years



MIXTURE FORMULATION

- 20% HYBRID RYEGRASS (TET)
- 25% INTERMEDIATE PERENNIAL RYEGRASS (TET)
- 3% MEADOW FESCUE
- 7% TIMOTHY
- 15% ENHANCED CUTTING FESTULOLIUM
- 5% TALL FESCUE
- 10% RED CLOVER
- 5% WHITE CLOVER
- 0.5% ALSIKE CLOVER
- 0.5% BIRD'S FOOT TREFOIL
- 7% SAINFOIN
- 1% FORAGE PLANTAIN
- 0.5% YARROW
- 0.5% SHEEP'S BURNET



REJUVENATOR SHORT TERM DUAL PURPOSE

A mixture comprising high yielding, fast growing grasses for repairing damaged pastures and boosting yields.

- Vigorous tetraploid grasses establish quickly and compete well with the existing sward
- Short term Italian and Hybrid ryegrass give excellent early spring growth
- Longer term perennial ryegrass increases ground cover and persistency
- Can also be sown at higher rates for use as an economical short term ley



REJUVENATOR LONG TERM DUAL PURPOSE

An overseeding mixture to renovate old pastures by introducing new grass varieties and clovers.

- Vigorous tetraploid grasses establish quickly and compete well with the existing sward
- Suitable for both grazing and conservation
- Includes Tweed white clover blend to enhance protein content and fix nitrogen
- Can also be sown at higher rates for use as an economical long term ley



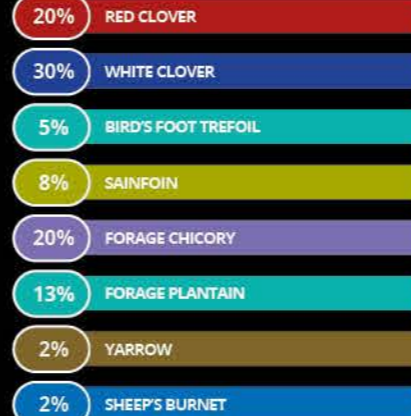
LEGUME & HERB MIX MAINLY GRAZING

A mix that contains all the legume and herb species required to convert existing grass into a Multispecies ley.

- Contains the same species of herbs and legumes as our Multispecies 60 mixture
- Helps create a resilient mixture that gives high yields over an extended growing season with minimal inputs
- Varied root depths and structure improve soil structure and health
- Meets voluntary requirements for SFI action *SAM3: Herbal leys* and *GSA: Legume and herb-rich swards*, worth £382/Ha per year if existing grass comprises of 5 species or more

MEDIUM TERM MIXTURE

Suggested sowing rate:
5kg/acre (12.5kg/ha)



CLOVERPLUS® DUAL PURPOSE

A pelleted version of our CloverPlus® blend that increases the success rate of good clover establishment.

- Pellet increases seed weight and size - making equipment calibration easier, and gives a more consistent spread pattern if broadcast
- Increased seed weight ensures seed is better able to penetrate the existing swards and achieve better soil:seed contact
- Seed is treated with **HEADSTART® GOLD** to increase establishment
- Includes the very high yielding large leaved clover Kakariki



LONG TERM MIXTURE

Suggested sowing rate:
2kg/acre (5kg/ha)

100% WHITE CLOVER BLEND



This mixture is treated with **HEADSTART® GOLD**



SHORT TERM MIXTURE

Suggested sowing rate:
10kg/acre (25kg/ha)

Mixture duration: 2 to 3 years



This mixture is treated with **HEADSTART® GOLD**



LONG TERM MIXTURE

Suggested sowing rate:
10kg/acre (25kg/ha)

Mixture duration: 8 to 12 years



This mixture is treated with **HEADSTART® GOLD**



Also available without Clover



EQUIPADDOCK DUAL PURPOSE

The Equipaddock range has been developed after consultation with equine nutritionists and seed experts.

- Equipaddock Original is a flexible grazing or cutting ley, designed specifically for use by horses and ponies
- Forms a very dense, rhizomatous sward suited to hard grazing
- It can also produce good yields of high quality horse hay



EQUIPADDOCK GOLD DUAL PURPOSE

A high quality non-ryegrass long-term equestrian mixture.

- High fibre and low sugar content to help avoid dietary issues
- Very dense sward tolerates very close grazing and helps prevent pasture damage
- Produces excellent quality hay



HORSE HAY MAINLY CUTTING

Designed to produce a high quality horse hay.

- This mixture has that special 'nose' that can only come from a good Timothy content
- Provides useful grazing in early spring and during late summer & autumn
- In winter, graze lightly if a good hay crop is desired



HAYLAGE MAINLY CUTTING

A short-term, high yielding mixture for the production of quality haylage.

- High in fibre
- Good inclusion rate of Timothy to give a good 'nose'



LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years



Supplied
in handy
10kg bags



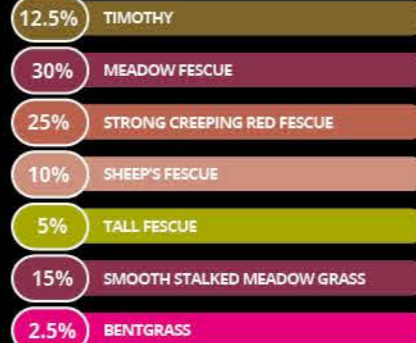
LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years



Supplied
in handy
10kg bags



LONG TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 8 to 12 years



Supplied
in handy
10kg bags



SHORT TERM MIXTURE

Suggested sowing rate:
13-16kg/acre (32-40kg/ha)

Mixture duration: 2 years



Supplied
in handy
10kg bags





WHITE CLOVER

CLOVER BLEND TECHNOLOGY



RED CLOVER

RED CLOVER BLENDS

WHY GROW WHITE CLOVER?

White clover is the most important forage legume currently grown in the UK. Whether you are milking dairy cows, finishing cattle or feeding sheep, this flexible species has an important part to play in the ley mixtures on your farm.

White clover has the potential to improve the quality of any leys cut and conserved as silage or grazed in the field, whilst also fixing atmospheric nitrogen - reducing fertiliser costs.

- High quality feed
- High protein and digestibility
- Rich in minerals
- Increased voluntary intakes and animal performance
- Good drought resistance and mid-season growth
- Can fix over 160kg/ha of nitrogen
- Reduced N fertiliser use
- Improves soil structure



Sinclair McGill pioneered the development of clover blends in the 1980s in association with IBERS (Institute of Biological, Environmental and Rural Sciences). Certain principles were established that are still valid today but the varieties we now use are far superior.

WHITE CLOVER BLENDS

Suggested sowing rate:
1kg/acre (2.5kg/ha)
as part of a grass/clover mix

CLOVERPLUS®

This blend is for inclusion in ley mixtures designed for beef and dairy systems. It includes varieties with a range of leaf sizes that can adapt to grazing with cattle and cutting for silage.

Pelleted CloverPlus® is also available pelleted and treated with **HEADSTART® GOLD**. See page 39 for details.

CHEVIOT®

A specialist blend primarily made up of very small leaved varieties with excellent persistence to stand up to the rigours of intensive and close grazing by sheep. As sheep are selective grazers it also includes some clover with large leaves which act as a "decoy" during the establishment phase.

TWEED®

A highly adaptive and persistent blend, for inclusion in long term mixtures. The range of leaf sizes enable Tweed to adapt to suit all classes of livestock and most management systems.

WHY GROW RED CLOVER?

Red clover offers the opportunity to reduce reliance on purchased concentrate feeds, due to its big yields of very high protein forage.

Sown straight or as part of a mixed grass/clover sward, red clover can produce up to 4 cuts a year with quality aftermath grazing. Like other leguminous plants, red clover also fixes atmospheric nitrogen, helping to bring down fertiliser costs.

- High yields of protein-rich forage
- Predominantly used for silage but can also be grazed
- Much higher yielding than white clover
- Reduces N fertiliser use
- Improves soil structure
- Drought tolerant



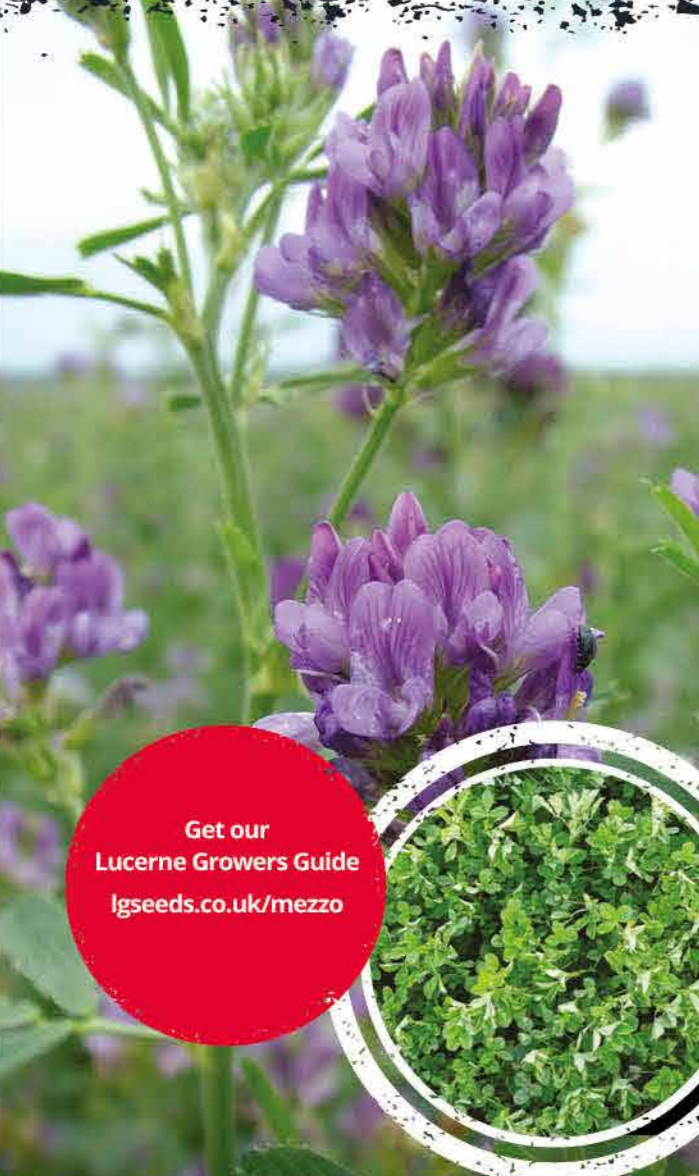
RED CLOVER BLENDS

Suggested sowing rate:
5-6kg/acre (12.5-15kg/ha) straight
3kg/acre (7.5kg/ha) as part of a grass/clover mix

RED ADMIRAL®

Red Admiral is a blend of diploid and tetraploid red clover varieties with a range of flowering dates, that has been proven to deliver consistently high yields for three harvest years.





Get our
Lucerne Growers Guide
lgseeds.co.uk/mezzo

Lucerne provides good yields of highly nutritious silage and is particularly useful in relatively dry conditions. Lucerne is very high in protein and minerals and its lower cell wall content makes it highly digestible for high intakes.

WHY GROW LUCERNE?

- High protein forage
- Drought tolerant
- Four cuts per year possible
- 3 to 5 year potential
- Suitable for silage, big bales, hay or zero grazing
- Fixes atmospheric nitrogen

MANAGEMENT

Lucerne can be sown from April through to August, though later sowings carry a greater risk of establishment failure, due to cooler weather and winter kill.

Seed should be treated with a Rhizobium inoculant to ensure root nodulation and efficient nitrogen fixing.

Sow at 8-15Kg/acre into well drained soils with a neutral pH. Lucerne will not tolerate waterlogged or acidic soils. Drill into moisture in 10cm rows, no deeper than 1cm.

First cut will usually be in late April/May with subsequent cuts at approximately 40 day intervals.

PREFERRED VARIETY

MEZZO
Mezzo is a new variety with outstanding yields and increased winter hardiness.



SCOTLAND & NORTHERN IRELAND
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SOUTH & SCILLY ISLES
Graham Parnell
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SOUTHERN COUNTIES
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SINCLAIR MCGILL

GRASS MIXTURE SELECTION GUIDE

Limagrain UK Limited
Rothwell, Market Rasen, Lincolnshire LN7 6DT

☎ 01472 371471 @ enquiries@limagrain.co.uk

Contact your nearest distributor:



TERMS AND CONDITIONS OF SALE

All varieties listed in this Handbook are offered strictly subject to safe harvest, final certification and remaining unsold on receipt of orders.
All other terms and conditions of sale will be advised by your individual 'Sinclair McGill' Authorised Distributor or stockist.



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lgseeds.co.uk

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