

Farm Equip  
are proud to offer  
**ForageMax®**  
Quality Grass Seed Mixtures 2016



by DLF

# ForageMax®

## Quality Grass Mixtures

### CONTENTS

DLF GRASS PARTNERS	3-4
PLANT TECHNOLOGY	5-6
SEED TECHNOLOGY	7-8
CUTTING MIXTURES	9-11
DUAL PURPOSE MIXTURES	12-17
MIXTURE SELECTOR	15-16
SPECIALIST MIXTURES	18-23
ORGANIC MIXTURES	24
OVERSEEDING	25-26
RESEEDING	27
FORAGEMAX WHITE CLOVER	28
LAWN SEED	29
YOUR COUNTRYSIDE & BIOGAS	30



#### DLF

DLF focuses closely on the demands of customers as well as on the market trends of clover and grass seed. Offering one of the world's largest research and breeding programmes for both turf and forage, DLF is working consistently to improve the quality and reliability of all varieties. To meet market expectations, these varieties are tested through a worldwide trialling network for adaptation to different climatic and environmental conditions.

DLF is the world's largest producer and distributor of grass seed. With subsidiaries in Denmark, Sweden, Holland, UK, Ireland, France, Germany, Czech Republic, Russia, China, New Zealand, South America, USA and Canada, an extended distributor and customer network serves the markets worldwide.

#### Grass seed for all purposes

DLF strives to be the preferred grass seed partner for farmers dealing with dairy or beef cattle, sheep and horses. Our ambition is to deliver solutions for all situations where grass and clover grass is the best choice from a nutritional and economic point of view.

Our constant focus on the needs of the end-user filters back into our breeding and product development, where new and better solutions are created with the aim of providing your livestock production a high degree of self-sufficiency for the benefit of the total farm economy.





# DEDICATION TO BRING OUT THE VERY BEST IN SEEDS

**MORE  
MILK  
WITH DLF**

Seeds & Science in action  
**See page 5**

**Advanced** GRASSES™

Advanced™ Grasses included in a wide range of  
ForageMax mixtures  
**See page 6**

**ProNitro®**

ProNitro® fertiliser coating is available on  
overseeding mixtures  
**See page 7**

**GroMax**  
by DLF

GroMax biostimulant is included in all conventional  
mixtures at no extra cost  
**See page 8**

The mixtures include top varieties fully  
endorsed by the UK recommended lists



## Hailes Farm a Centre of Excellence

Hailes Farm is the largest forage grass testing site in the UK and has been in existence since 1975. Today the work involves forage and amenity grass testing and a forage grass breeding programme which links in with the DLF global network of breeding centres. There is also extensive official trials work and breeder liaison in the arable sector focusing on oil seed rape, winter wheat and pulses. Hailes Farm is also home to the demonstration and evaluation plots for the 'Your Countryside' range of game cover and environmental mixtures and our forage maize portfolio.

### DLF Forage Grass

Varieties are tested over a period of 2 years. 2500 plots are sown annually and consequently 5000 plots are harvested each year. Hailes Farm is part of the official National and Recommended Lists testing of forage grass varieties in the UK. DLF continue to invest substantial resources in selecting varieties for the UK and have a dedicated breeding programme in Perennial Ryegrass.

All ForageMax mixtures are fully tested and evaluated to ensure that the individual varieties selected are included in the most appropriate proportions, giving optimal mixture performance in the field.



### Training - DLF Academy

DLF prides itself on the level of training and support it can offer. It is essential that both merchants and growers are kept abreast of the latest techniques and developments in the industry.

Livestock producers who use ForageMax mixtures can be assured that their supplier has access to one of the best grass seed training facilities in the UK.



# DLF Grass Partners

## Where farmers profit from our innovation

Besides supplying farmers throughout the world with top class varieties and mixtures, DLF is also owned by farmers who grow the seed and invest in the breeding for future generations.

More Milk with DLF revolves around the farmer to ensure that – along with top class varieties and products – our advice, expertise and knowledge are shared with the farmers who will ultimately turn our products into profit through increased output of meat or milk.





# DLF – GRASS PARTNERS

## Quality or quantity? - that is the question

Grass trials were carried out at Newland Home Farm by kind permission of David and Chris Halhead. The farm supports a 160 cow herd that is housed and on a robotic milking system yielding 10,000 litres per cow. Grass destined for ensiling has been weighed and analysed over 2 seasons to observe the differences year on year. In both 2014 and 2015 the samples and weights were taken on exactly the same day to give a direct comparison. The results have presented some very thought provoking statistics and in light of today's climate of tight margins silage producers need to ask themselves "do I forfeit quality in pursuit of quantity?" The mixture sampled during 2014 & 15 was **VersaMax Meat and Milk**. This mixture features 51% **More Milk** varieties which guarantee the genetic potential. The aim is now to harvest at the optimum time. The table illustrates the results of manual weighing and pre - cut sampling. The variation from year to year is staggering. What it says though is **be aware of the season – sample and take action**. If the sample shows this grass is ready do not wait because once the heading process begins the forage quality falls quickly and the energy is gone.

**VersaMax Flexicrop** was drilled in autumn 2014. We did this to maintain the advantages of high DNDF cultivars (39% inclusion) and introduce the Advanced™ Hybrid Lofa. This was to introduce extra yield with no quality penalty (See page 6). Due to grazing early in 2015 the 1st cut was compromised but gave a good second cut to out-perform the **VersaMax Meat and Milk** which is excellent in its own right. More **VersaMax Flexicrop** was drilled autumn 2015.

	MEAT & MILK 2014		MEAT & MILK 2015		FLEXICROP 2015 (sown autumn 2014)	
	1st Cut	2nd Cut	1st Cut	2nd Cut	1st Cut	2nd Cut
Fresh weight tonnes/acre	14.57	8.10	12.95	6.48	13.00	8.90
Dry Matter %	14.8	16.7	18.5	16.4	15.9	17.6
Total kg/DM	2160	1350	2396	1063	2059	1566
Me Mj/kg/DM	10.4	10.5	11.8	11.2	11.4	11.2
NDF	49.9	53.7	38.2	44.2	41.1	43.3
Total Mj/acre	22464	14175	28273	11906	23473	17539
Total energy produced 2 cuts	36639mj		40179mj		41012mj	

Points to consider from the project:

- Be aware of the weather's effect on crop development
- Clearly define your forage requirements
- Select an appropriate mixture
- Close up conservation area by New Year at the latest
- Monitor, measure and mow
- Go for quality - avoid letting the crop seed



David & Chris Halhead

# Digestible forage = Healthy stock = More Milk & better LWG

Having spent many years improving yield and disease resistance, the main goal now is to improve feed value and digestibility of the fibre components. Developing ever higher yielding varieties may be counter-productive – especially in countries with strict limits on nitrogen use. The breeders at DLF are now focused on producing varieties of grass with improved forage quality, in particular those with high cell wall digestibility (DNDF).

Fibre is one of the main reasons for feeding grass to ruminants, but it can be indigestible and consequently locks up valuable nutrients. Research has shown that a 10% improvement in fibre digestibility can raise milk production by 6.4% and at the same time reduce nitrogen released into the environment by 4.9% therefore this is what we are aiming to achieve in the future.

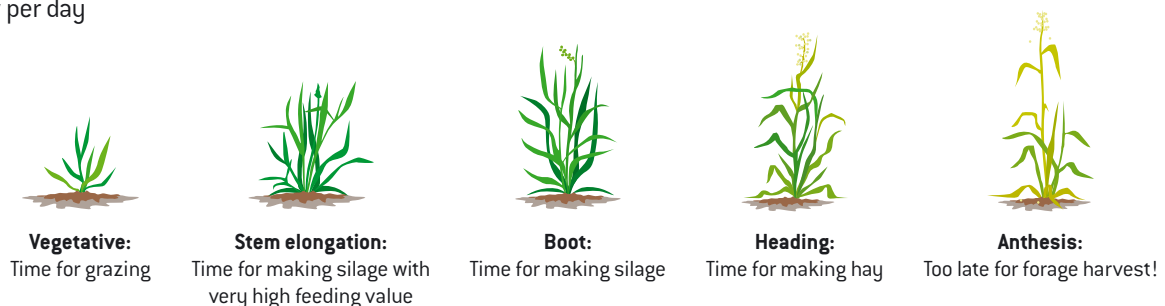


## DLF VARIETIES WITH HIGH DNDF

PERENNIAL RYEGRASS	VARIETY
Intermediate Diploid	Solomon
Late Diploid	Romark
	Cancan
	Pastour
Late Tetraploid	Polim
	Twymax

### More Milk with DLF

- Trials show 3-6% difference in cell wall digestibility (DNDF) between listed varieties
- Every 1% increase in DNDF results in 0.25 litre more milk per cow per day
- 4% = 1 litre of milk per day = £85 per cow per year
- £17,000 per year based on a 200 cow herd



Digestible (DNDF)



Indigestible (Lignin)



Standard variety, milk per kg dry matter



High DNDF variety, milk per kg dry matter

Time



# Advanced<sup>GRASSES</sup>™ Quality and Quantity the complete package!

Advanced™ Grasses are created by crossing fescues with ryegrasses. The objective of this Advanced™ hybrid breeding is to create grass varieties with high forage quality combined with good persistence, stress tolerance and disease resistance.

Yield increases of between 10% and 50% are common when DLF varieties of Advanced™ Grasses are tested in trials.

## Why are Advanced™ Grasses so successful?

- Intensive breeding for more than 40 years
- Greater tolerance to variations in climate, soil management etc
- Yield improvement from crossing of two non-related species
- Development of types and varieties with different characters

## ADVANCED™ GRASSES PERFORMANCE DATA

	YIELD T DM/HA	% SUGAR CONTENT	% PROTEIN CONTENT	ME MJ/KG DM	D-VALUE
<b>HYKOR Advanced™ Tall Fescue</b>	<b>17.63</b>	<b>10.4</b>	<b>22.5</b>	<b>11.4</b>	<b>71.4</b>
Tall Fescue	16.37	12.5	19.8	11.4	71.6
<b>PERSEUS Advanced™ Italian Ryegrass</b>	<b>22.68</b>	<b>12.2</b>	<b>21.6</b>	<b>11.3</b>	<b>71.1</b>
<b>LOFA Advanced™ Hybrid Ryegrass</b>	<b>21.69</b>	<b>12.0</b>	<b>21.9</b>	<b>11.3</b>	<b>71.1</b>
Tetraploid Intermediate Perennial Ryegrass	17.37	12.1	24.8	11.4	71.9

## Advanced<sup>TALL FESCUE</sup>™

HYKOR is suitable for silage mixtures together with perennial ryegrass, hybrid ryegrass and lucerne or red clover. The Advanced™ Tall Fescue increases the persistency of the mixture due to the deeper root system and tolerance to dry conditions. Hykor also shows excellent forage quality.

## Advanced<sup>ITALIAN RYEGRASS</sup>™

The varieties PERSEUS and PERUN have all the attributes of an Italian ryegrass but exhibit improved persistence and stress tolerance. They are ideal in short term mixtures of up to 3 years duration and are especially good companions for red clover.

## Advanced<sup>HYBRID RYEGRASS</sup>™

The variety LOFA has the broadest appeal of all Advanced™ Grasses. It has all the attributes of a hybrid ryegrass but exhibits improved persistence and stress tolerance over standard hybrid ryegrass varieties. These characteristics make Lofa an ideal component in medium term mixtures as its persistence, being 1 - 2 years more than standard hybrid ryegrass, matches the expected duration of the vast majority of medium term mixtures currently used in the UK.

Crown rust resistance is plain to see

# ProNitro<sup>®</sup> Pelleted N seed coating

## Efficient seedbed fertiliser placement

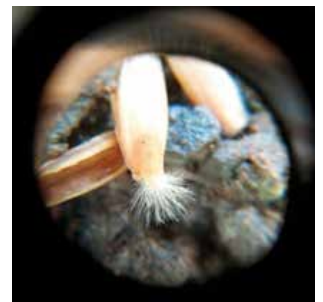
- Increases forage yield and therefore more meat and milk
- Emergence, density and wear are improved
- ProNitro<sup>®</sup> is a coating with nutrients located around the seed, as a supplement to the seeds own reserves
- With ProNitro<sup>®</sup> there are easily accessible nutrients on each individual seed
- Contains 10% N
- Sow at 15kg / acre (37kg / ha) for overseeding

### This results in a number of advantages:

- Enhanced early growth and improved tolerance to stress
- Fertiliser application exactly in the root zone = Better utilisation of nutrients and reduced loss to the environment
- Bigger and heavier seeds in better contact with soil surface
- Feeds only the seed not the weed or surrounding grass
- Better root and shoot extension
- Average of +30% more viable plants
- No application costs



ProNitro<sup>®</sup> 3 days  
after sowing



Control 3 days  
after sowing



Four weeks after sowing



# GroMax

by DLF

## GroMax Biostimulant

Biostimulants do not offer the benefit of added nutrients; they simply assist the seedling's ability to take advantage of the soil's own inherent reserves of nutrient by stimulating the soil's microflora, resulting in improved root growth and establishment.

### INGREDIENT SUMMARY

#### HUMIC ACIDS

- Rich in auxin type substances which enhance antioxidant synthesis – important in increasing plant metabolism under stress conditions
- Serve as an important high carbon food source for soil micro-organisms
- Improve the permeability of cell-wall membranes in roots, allowing more rapid absorption of essential nutrients

#### SEAWEED EXTRACT

- Contains high levels of cytokinins which promote cell division and lateral root growth and delay the ageing process of plant tissue
- Stimulates root growth after damage by disease or root feeding insects, or under conditions of temperature, water or salt stress

#### SUCROSE

- Serves as a high energy food source for plant and soil micro-organisms

#### B COMPLEX & K VITAMINS

- Act as important catalysts to enhance and drive plant metabolism. Vitamin B1 is widely used as a rooting aid

#### AMINO ACIDS

- Form the building blocks of proteins - essential for plant growth and metabolism

#### POTASSIUM

- Plays a vital role in disease resistance and overall hardiness of grass plants
- Following extensive research DLF is delighted to continue to offer the benefits of biostimulants to the ForageMax range



All standard ForageMax mixtures, with the exception of the organic range, will be treated with GroMax at no extra cost.

## CutMax Sprinter

A 1 year intensive cutting mixture to provide high yielding swards. Sown in the spring Westerwold will provide at least two cuts in its harvest year.

Contains: **GroMax**  
by DLF

Usage: 

## CutMax Catch Crop

Up to 2 years of intensive cutting based on 100% Italian Ryegrass. This mixture will respond very quickly to the application of fertiliser to the aftermath.

Usage:   

### CUTTING (1 YEAR)

50%	Peleton	Westerwold Ryegrass (T)
50%	Danergo	Italian Ryegrass (T)

14-16kg/acre (35-40kg/ha)






Approximate date of 67D 16th May






### CUTTING (2 YEAR)

50%	Italian Ryegrass
50%	Italian Ryegrass (T)

14-16kg/acre (35-40kg/ha)

Approximate date at 67D 12th/13th May

-  Sprinter produces rapid growth and high yields
-  Frost free sites are essential for autumn sown crops as westerwold is not noted for winter hardiness
-  Rapid regrowth after cutting
-  Responds to high inputs of fertiliser
-  Good resistance to mildew and rhynchosporium

-  A versatile short term mixture
-  Can be sown in spring or autumn including after maize
-  Provides a good early crop to cut or graze
-  Excellent levels of disease resistance
-  Ensiles well due to high levels of sugar in first cut





## CutMax Extra Cut

An intensive cutting mixture for high yields of palatable forage for up to 3 years.

Contains: **GroMax** by DLF **Advanced** ITALIAN RYEGRASS™






Usage: 

### CUTTING (2 – 3 YEARS)

18%	Perun	Advanced™ Italian Ryegrass
21%	Alamo	Italian Ryegrass
29%	Kigezi 1	Italian Ryegrass (T)
21%	Citeliac	Hybrid Ryegrass (T)
11%	Tetragraze	Hybrid Ryegrass (T)

13-15kg/acre (32-37kg/ha)

Approximate date of 67D 16th May

-  Benefits from Italian, Hybrid and Advanced™ Ryegrass
-  Excellent forage quality for ensiling
-  Good regrowth after cutting
-  Responsive to high fertiliser input
-  High in sugar – essential for rapid fermentation

## CutMax Hi - Protein

A 3 – 4 year intensive cutting mixture with Red Clover that will produce high quality yields of grass and clover throughout the season.

Contains: **GroMax** by DLF

Usage: 






Overseed with: **GrassMax** RED CLOVER

### CUTTING (3 – 4 YEARS)

25%	Bahial	Hybrid Ryegrass (T)
40%	Citeliac	Hybrid Ryegrass (T)
15%	Tetragraze	Hybrid Ryegrass (T)
20%	Red Clover Blend	

13-15kg/acre (32-37kg/ha)

Approximate date of 67D 17th May

-  80% Hybrids for excellent yields
-  Excellent yields of quality leafy grass
-  Quality & yield enhanced with Red Clover
-  Good disease resistance
-  Red Clover will improve the protein in the crop



## Advanced™ Protein Plus

Advanced™ Protein Plus is the ultimate mixture for yield and forage quality. The added benefits attributed to Advanced™ Ryegrasses (Festuloliums) such as stress tolerance and their ability to go on producing longer than conventional Hybrids and Italians makes this a very cost effective option. Without doubt this mixture will deliver the goods.

Contains: **Advanced** GRASSES™

Usage: 

Overseed with: **GrassMax** RED CLOVER

### The UK's first mixture to contain 100% Advanced™ Grass species

#### CUTTING (3 – 4 YEARS)

40%	Lofa	Advanced™ Hybrid Ryegrass
20%	Perseus	Advanced™ Italian Ryegrass
20%	Perun	Advanced™ Italian Ryegrass
20%	Red Clover Blend	

13-15kg/acre (32-37kg/ha)

- Advanced™ Grass inclusion ensures high quality yields
- Stress tolerant species will thrive in all soil types
- On average 3.5t DM /ha more from both Hybrid and Italian Advanced™ Grasses
- High Red Clover % for excellent forage quality particularly protein content
- Clover blend features “Magellan” the new and highest yielding Red Clover listed
- A multi-cut mixture of the highest quality
- For more information on Advanced™ Grass see page 6





# VersaMax Flexicrop

Flexicrop delivers yield and quality for both cutting and grazing. The hybrid element provides quality leafy grass at cutting and combines with the persistency and density of the perennials for all round performance.



Contains: **GroMax** by DLF **Advanced** HYBRID RYEGRASS™ 

Usage:   







Overseed with: **GrassMax** DUAL PURPOSE 

**DLF Top Tip**  
Soil structure – check  
for panning if  
water is standing

## CUTTING & GRAZING (3 – 5 YEARS)

21%	Lofa	Advanced™ Hybrid Ryegrass
14%	Bahial	Hybrid Ryegrass (T)
14%	Solomon	Intermediate Perennial Ryegrass 
14%	Catabi 1	Intermediate Perennial Ryegrass (T)
15%	Pastour	Late Perennial Ryegrass 
17%	Diams	Late Perennial Ryegrass (T)
5%	Dual Purpose White Clover Blend	

13-15kg/acre (32-37kg/ha)

-  Lofa has excellent stress tolerance combined with yield and forage quality
-  Will cut or graze equally well producing high annual yields
-  Sward density is excellent so withstands heavy traffic
-  High DNDF varieties bring superb digestibility levels
-  Dual purpose White Clover performs well under both regimes
-  **A NO CLOVER OPTION IS AVAILABLE**

 varieties in green denote high fibre digestibility (DNDF)





## VersaMax Meat & Milk

A dual purpose mixture for 5 years plus. Meat and Milk will produce grass of both quantity and quality for all livestock systems. It will suit all soil types across England and Wales.

Contains: **GroMax** by DLF 

Usage:   

Overseed with: **GrassMax** DUAL PURPOSE 





### DLF Top Tip

Be sure to test for  
pH, P, K  
when reseedling

### CUTTING & GRAZING (5 YEARS PLUS)

18%	Boyne	Intermediate Perennial Ryegrass
23%	Catabi 1	Intermediate Perennial Ryegrass(T)
10%	Cancan	Late Perennial Ryegrass 
13%	Pastour	Late Perennial Ryegrass 
10%	Twymax	Late Perennial Ryegrass (T) 
11%	Alfonso	Late Perennial Ryegrass (T)
8%	Winnetou	Timothy
7%	Dual Purpose Clover Blend	

13-15kg/acre (32-37kg/ha)

-  A persistent mixture to cut or graze
-  Timothy gives early bite and good yields in spring
-  A good inclusion level of high DNDF varieties means top quality digestibility and production from forage
-  Dual purpose clover blend brings versatility to the mixture for cutting or grazing
-  **A NO CLOVER OPTION IS AVAILABLE**



varieties in green denote high fibre digestibility (DNDF)





## VersaMax All Stock

A versatile mixture to cut or graze. This ley will withstand heavy grazing by all classes of stock particularly beef cattle and sheep. For ensiling it will produce good yields and quality. To extend its life the practice of overseeding should be considered in the later years.

Contains: **GroMax**  
by DLF

Usage:   

Overseed with: **GrassMax**  
DUAL PURPOSE

**DLF Top Tip**  
Beware of Leatherjackets  
& Fritfly in new leys  
especially in autumn

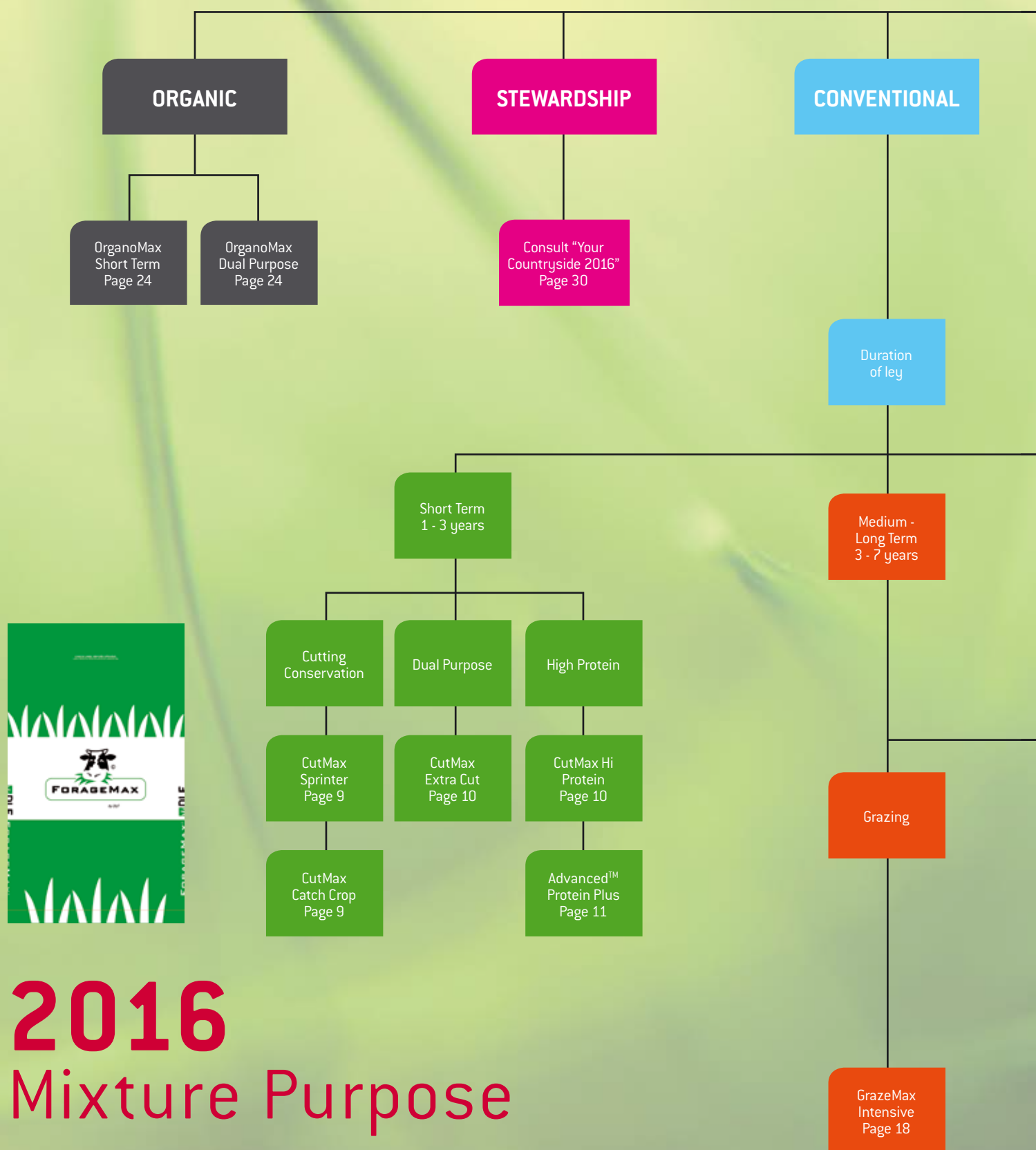
### CUTTING & GRAZING (5 YEARS PLUS)

20%	Premium	Intermediate Perennial Ryegrass
24%	Orion	Intermediate Perennial Ryegrass(T)
20%	Toddington	Late Perennial Ryegrass
25%	Diams	Late Perennial Ryegrass (T)
7%	Timothy	Timothy blend
4%	Dual Purpose Clover Blend	

13-15kg/acre (32-37kg/ha)

- ✔ Good spring time production for grazing animals
- ✔ Timothy gives early bite and yield and tolerates cold wet soils
- ✔ Will cut or graze well
- ✔ A high percentage of late perennial ensures a leafy sward
- ✔ **A NO CLOVER OPTION IS AVAILABLE**





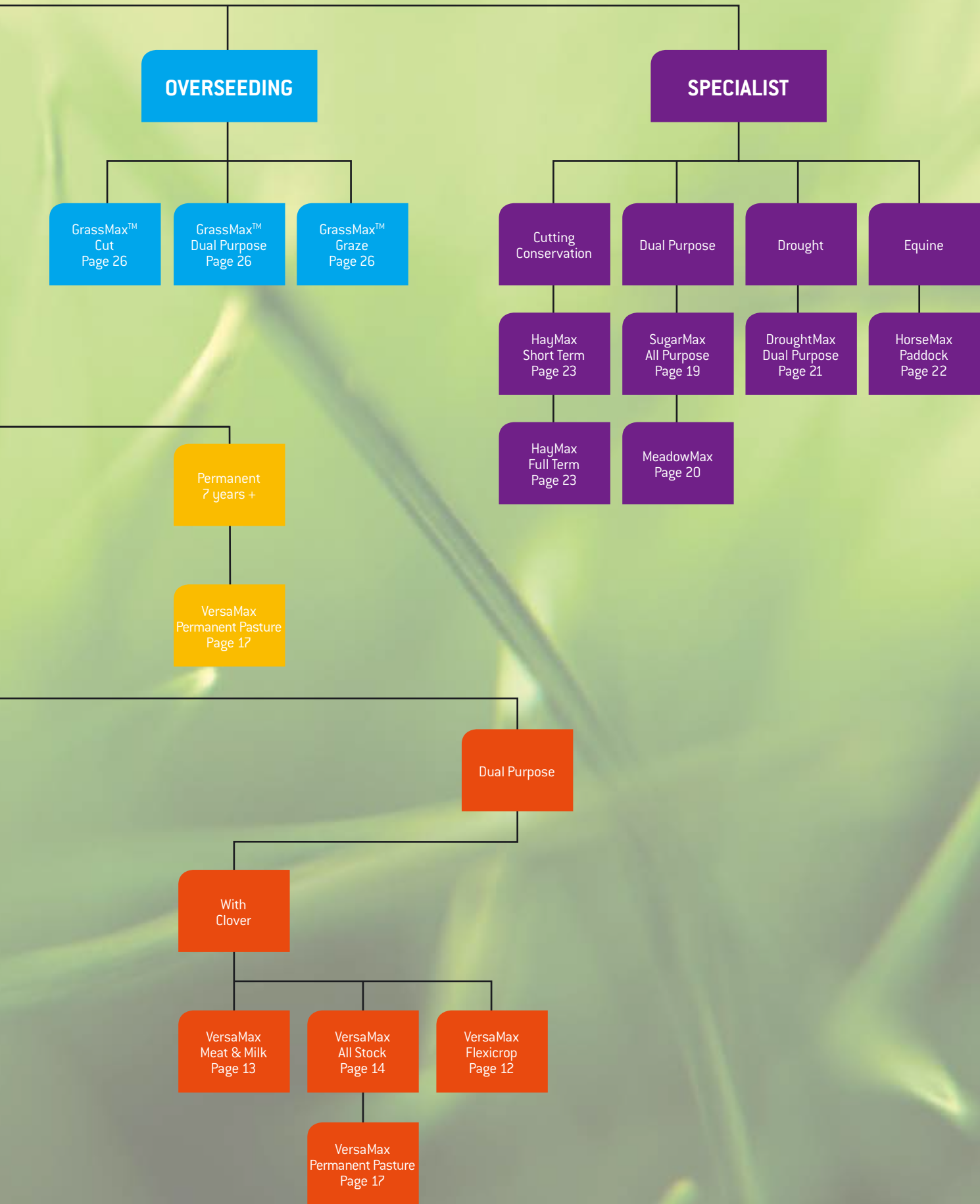
# 2016

## Mixture Purpose

### Disclaimer

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





## VersaMax Permanent Pasture

A long term permanent mixture with good Timothy percentage for early bite in colder conditions. Whilst this mixture is predominantly designed to graze it is capable of providing a cut of silage if closed up, not too late, in the spring. It is an ideal ley for big bale forage.

Contains: **GroMax**  by DLF

Usage:   








Overseed with: **GrassMax**  DUAL PURPOSE

**DLF Top Tip**  
Cross drill in a diamond pattern for maximum ground cover

### CUTTING & GRAZING (PERMANENT)

16%	Solomon	Intermediate Perennial Ryegrass 
16%	Premium	Intermediate Perennial Ryegrass
16%	Seagoe	Intermediate Perennial Ryegrass (T)
11%	Romark	Late Perennial Ryegrass 
10%	Cancan	Late Perennial Ryegrass 
14%	Diams	Late Perennial Ryegrass (T)
10%	Winnetou	Timothy
7%	Dual Purpose Clover Blend	

13-15kg/acre (32-37kg/ha)

-  A proven, hard wearing long term mixture
-  Good early bite mixture
-  Hard wearing and long term
-  Will tolerate hard sheep grazing
-  Good levels of high DNDF varieties
-  Excellent disease tolerance
-  **A NO CLOVER OPTION IS AVAILABLE**

 varieties in green denote high fibre digestibility (DNDF)





# GrazeMax Intensive

A specialist grazing mixture designed to maximise production from grazed forage. This mixture makes full use of digestible fibre and the ruminant's ability to convert it to profit. For maximum benefit a grazing height of around 8 - 10cm should be maintained. If the growth outstrips demand then ensiling the surplus should be considered.

Contains: **GroMax** 




Usage:  

Overseed with: **GrassMax** 






## DLF Top Tip


Roll after sowing  
for good seed to  
soil contact

### GRAZING (5 YEARS PLUS)

16%	Solomon	Intermediate Perennial Ryegrass 
21%	Boyne	Intermediate Perennial Ryegrass 
21%	Cancan	Late Perennial Ryegrass 
19%	Pastour	Late Perennial Ryegrass 
16%	Twymax	Late Perennial Ryegrass (T) 
7%	Grazing White Clover Blend	

13-15kg/acre (32-37kg/ha)

-  72% of the grass inclusion are varieties with high DNDF
-  Excellent conversion to meat and milk
-  Good ground cover for maximising intake at grazing
-  As the name suggests "Intensive" will support grazing based dairy systems
-  **A NO CLOVER OPTION IS AVAILABLE**

 varieties in green denote high fibre digestibility (DNDF)



# SugarMax All Purpose

A medium term mixture based on grasses with high sugar levels. High sugar levels lead to greater palatability. This, along with high percentages of DNDF, provides the opportunity to fully exploit production from forage either by grazing or producing top quality conservation crops.




Contains: **GroMax**  by DLF

Usage:   

Overseed with: **GrassMax**  DUAL PURPOSE

**DLF Top Tip**  
Check for seedling weeds in a new ley – spray if required

## CUTTING & GRAZING (3 – 7 YEARS)

14%	Solomon	Intermediate Perennial Ryegrass 
29%	Godali 1	Intermediate Perennial Ryegrass (T)
14%	Magician	Intermediate Perennial Ryegrass (T)
22%	Cancan	Late Perennial Ryegrass 
14%	Romark	Late Perennial Ryegrass 
7%	Dual Purpose White Clover Blend	

13-15kg/acre (32-37kg/ha)

-  A dual purpose mixture to benefit from high WSC
-  Very leafy leading to good digestibility
-  High sugar content from Godali 1, Cancan and Magician
-  Excellent clamp fermentation
-  Good dry matter yields all season
-  50% inclusion of high DNDF varieties
-  **A NO CLOVER OPTION IS AVAILABLE**

 varieties in green denote high fibre digestibility (DNDF)





# MeadowMax

A traditional ley of non - aggressive grass species. There has been much interest in livestock production on a more extensive, free ranging platform in recent years. This mixture will ideally suit those who wish to take a more environmental approach to farming. In fact some native beef breeds thrive best on this type of grass.

Contains: **GroMax**  
by DLF






Usage:   

**DLF Top Tip**  
Graze before winter to encourage tillering of young plants

## CUTTING & GRAZING (3 – 5 YEARS)

40%	Meadow Fescue
21%	Timothy
11%	Smooth Stalked Meadow Grass
10%	Rough Stalked Meadow Grass
10%	Creeping Red Fescue
7%	Crested Dogstail
1%	Meadow Foxtail

13-15kg/acre (32-37kg/ha)

-  Can be grazed or cut for hay or haylage
-  Will suit extensive livestock management
-  A mixture that will tolerate wet and cold conditions
-  A very dense sward which is also very hard wearing
-  Will tolerate low fertiliser input and lower pH soils





# DroughtMax Dual Purpose


A combination of late perennial and Advanced™ Grasses for longer term dual purpose use. It is estimated that around 60% of annual dry matter yield is produced by the end of June. This is a key consideration in those areas where drought is known to be an issue. DroughtMax Dual Purpose contains varieties to ensure peace of mind that first cut will be substantial and of the highest nutritional quality.

Contains: **GroMax** by DLF **Advanced** GRASSES™ 







Usage:   

**DLF Top Tip**  
Assess the sward for ground cover, overseed if required

## CUTTING & GRAZING (3 – 5 YEARS)

14%	Perun	Advanced™ Italian Ryegrass
14%	Perseus	Advanced™ Italian Ryegrass
28%	Lofa	Advanced™ Hybrid Ryegrass
15%	Romark	Late Perennial Ryegrass 
17%	Alfonso	Late Perennial Ryegrass (T)
5%	Corvus	Red Clover(T)
7%	Dual Purpose White Clover Blend	

13-15kg/acre (32-37kg/ha)

-  Deep rooting Advanced™ Grasses tolerate drought and high temperatures
-  Good yields at first cut with quick recovery
-  Excellent clovers to enhance palatability
-  Will stand out in dry summers
-  Responsive to fertiliser inputs
-  Superb spring growth



varieties in green denote high fibre digestibility (DNDF)





# HorseMax Paddock

Long term horse grazing with an option to produce a quality hay crop. HorseMax Paddock is designed using diploid Perennial Ryegrasses, Timothy and Creeping Red Fescue. Sward density is a key consideration as both grazing and winter feed are often produced from the same area. Timothy is much favoured by horses and in particular gives hay a sweet smell and is very palatable. Creeping Red Fescue is key to keeping the sward together and because of its growth habit quickly repairs the turf when damaged by hooves.

Contains: **GroMax**  
by DLF

Usage:  






## DLF Top Tip

To reduce wear  
overseed horse  
paddocks at  
10kg per acre

### CUTTING & GRAZING (5 YEARS PLUS)

35%	Orantas	Intermediate Perennial Ryegrass
20%	Premium	Intermediate Perennial Ryegrass
20%	Toddington	Late Perennial Ryegrass
15%	Maxima	Creeping Red Fescue
10%	Timothy	Timothy Blend

10kg pack size  
14-16kg/acre (35-40kg/ha)

-  Very good sward density
-  Suitable for a hay crop if desired
-  Hard wearing sward
-  No tetraploids as high sugar grass can lead to laminitis
-  An extremely versatile equine mixture



## HayMax Short Term

Quality hay or haylage from diploid and Advanced™ Italian Ryegrass. This mixture will provide very heavy crops in terms of yield and of a quality which is required for the equine fodder market.






Contains: **GroMax** by DLF **Advanced** ITALIAN RYEGRASS™

Usage: 

### CUTTING (2 YEARS)

29%	Perun	Advanced™ Italian Ryegrass
29%	Perseus	Advanced™ Italian Ryegrass
42%	Alamo	Italian Ryegrass

13-15kg/acre (32-37kg/ha)

-  Superb for hay or haylage
-  Diploids only to aid drying process
-  Excellent disease resistance
-  Will provide at least two heavy crops
-  Very responsive to fertiliser inputs

## HayMax Full Term

Based only on diploid species and providing a high quality bale. A longer term mixture that will produce a softer hay than the HayMax short term mixture. Out of season it could be grazed if desired as a management tool to prevent the grass getting out of control.





Contains: **GroMax** by DLF

Usage: 

### CUTTING (3 – 5 YEARS)

25%	Genesis	Early Perennial Ryegrass
15%	Boyne	Intermediate Perennial Ryegrass
32%	Premium	Intermediate Perennial Ryegrass
14%	Foxtrot	Late Perennial Ryegrass
14%	Winnetou	Timothy

13-15kg/acre (32-37kg/ha)

-  5 years duration for hay and haylage
-  Timothy inclusion makes this very palatable
-  Good disease resistance
-  Diploids only for even conditioning





## OrganoMax 70% Short Term

An intensive cutting mix with Red Clover. This mixture contains high levels of Red Clover to produce crops with good protein and forage palatability.

Contains: **AdVanced** GRASSES™

Usage: 

### CUTTING (2 – 3 YEARS)

35%	Perun	AdVanced™ Italian Ryegrass Organic
35%	Hunter	Italian Ryegrass (T) Organic
10%	Lofa	AdVanced™ Hybrid Ryegrass
20%	Red Clover Blend	

13-15kg/acre (32-37kg/ha)

- Designed for maximum production up to 3 years
- Contains 70% organically produced seed
- Perun AdVanced™ Italian Ryegrass improves yield, quality and stress tolerance
- The growth habit is erect allowing both grass and clover to thrive




## OrganoMax 70% Dual Purpose

Dual purpose will cut or graze equally well over a period of 4 – 6 years. A true all rounder for the organic grower. Contains good clover levels to maintain season long production. Grazing quality is enhanced by the inclusion of More Milk varieties.

Contains: 

Usage:   

### CUTTING & GRAZING (4 - 6 YEARS)

8%	Solomon	Intermediate Perennial Ryegrass 
11%	Premium	Intermediate Perennial Ryegrass Organic
14%	Calibra	Intermediate Perennial Ryegrass (T) Organic
10%	Magician	Intermediate Perennial Ryegrass (T) Organic
10%	Tyrconnell	Late Perennial Ryegrass
15%	Pastour	Late Perennial Ryegrass Organic 
12%	Polim	Late Perennial Ryegrass (T) Organic 
8%	Dolina	Timothy Organic
9%	Dual Purpose White Clover Blend	
3%	Red Clover Blend	

13-15kg/acre (32-37kg/ha)

- Varieties are selected for persistence, yield and quality
- Contains 70% organically produced seed
- Varieties with high DNDF ensure excellent digestibility
- Good clover levels to support the crop

 varieties in green denote high fibre digestibility (DNDF)



## Overseeding pays off

### Open swards yield too little

Overseeding using the correct mixtures and machinery designed for the job is now accepted as good practice to both maintain the physical and nutritional quality of medium and long term swards.

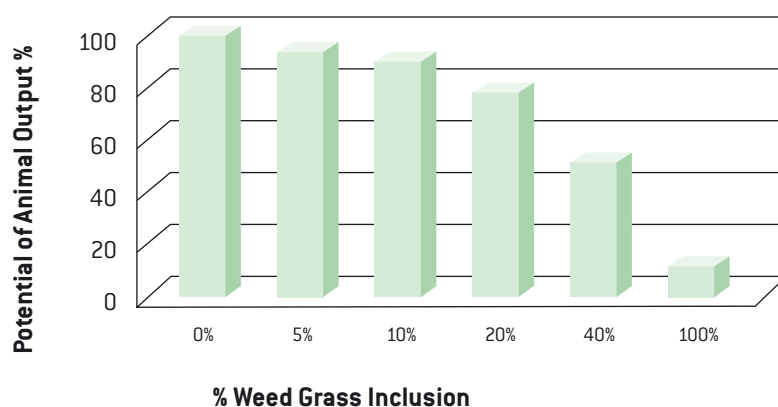
When the sward becomes open allowing weeds and unsown species to invade, overseeding will quickly check this and maintain the productivity by increasing both yield and quality.

The loss of 1 tonne DM/ha @ 11MJ/ kg DM equates to 11000 MJ. This is the difference between success and failure in production from forage.

Overseeding a sward with the correct GrassMax™ mixture will help maintain production beyond its expected life.



### EFFECTS OF WEED GRASS ON ANIMAL OUTPUT



## Overseeding - DLF Top 10 Tips

- ✔ Assess the field for weeds and grass species content
- ✔ Timing is essential. After the last cut or hard grazing in the late summer or autumn is best
- ✔ Select the appropriate GrassMax mixture - Dual purpose, Graze, Cut or Cut (Red clover)
- ✔ Consider using ProNitro® treated seed as an option (see page 7)
- ✔ Scarify pre drilling to remove thatch. This lets in sunlight & moisture
- ✔ Use the correct drilling method. For younger open swards a scarifying rake, for denser swards a disc drill
- ✔ Cross drilling can improve ground cover
- ✔ Roll after drilling for good seed to soil contact. Use a Cambridge roll if possible
- ✔ Be aware of Frit fly and Leather jacket attack (consult your agronomist)
- ✔ Stock can continue to graze up to seedling emergence. Then allow establishment

**Result – more yield, better quality, healthier stock**




## GrassMax™ Mixtures

GrassMax™ overseeding mixtures have been designed to meet the precise requirements of the field and its intended use. It is important to remove all surplus growth from the existing sward before overseeding.

Contains: **GroMax** by DLF **Advanced** GRASSES™ 

Usage:   

 varieties in green denote high fibre digestibility (DNDF)

### GRASSMAX™ CUT

30%	Lofa	Advanced™ Hybrid Ryegrass
40%	Citeliac	Hybrid Ryegrass (T)
20%	Glenstal	Intermediate Perennial Ryegrass (T)
10%	Cutting White Clover Blend	

10kg/acre (25kg/ha)

### GRASSMAX™ CUT RED CLOVER

35%	Lofa	Advanced™ Hybrid Ryegrass
40%	Citeliac	Hybrid Ryegrass (T)
25%	Red Clover Blend	


10kg/acre (25kg/ha)

### GRASSMAX™ DUAL PURPOSE

30%	Citeliac	Hybrid Ryegrass (T)
30%	Glenstal	Intermediate Perennial Ryegrass (T)
30%	Alfonso	Late Perennial Ryegrass (T)
10%	Dual Purpose White Clover Blend	

10kg/acre (25kg/ha)

### GRASSMAX™ GRAZE

20%	Catabi 1	Intermediate Perennial Ryegrass (T)
30%	Glenstal	Intermediate Perennial Ryegrass (T)
20%	Twymax	Late Perennial Ryegrass (T) 
20%	Diams	Late Perennial Ryegrass (T)
10%	Grazing White Clover Blend	

10kg/acre (25kg/ha)

**ProNitro®**

available on all  
overseeding mixtures

All standard GrassMax™ mixtures are available without clover. The 10kg/acre seed rate is maintained by substituting the clover with additional grass.



## Discovering the value of a new grass ley

The costs involved in establishing a new ley are often considered to be high. However over the lifetime of the ley the initial cost becomes very small compared to potential output and production achieved. It has long been accepted that a new ley will produce around 20% more DM/acre than the grass it replaces in its first year alone. This figure along with better forage quality makes the decision to reseed very easy.

Recent advances in grass breeding now allow UK farmers access to the very best varieties available. The ability to measure fibre digestibility (DNDF) will allow growers to unlock the true potential in the grassland and maximise production from home grown forage.

### Typical costs for seed bed preparation & sowing

Ploughing	£24 per acre
Power harrowing	£21 per acre
Rolling (before & after sowing £7x2)	£14 per acre
Cross drilling	£32 per acre
<b>Sub - total</b>	<b>£91 per acre</b>
Grass seed (6yr ley)	£60 per acre
<b>Total</b>	<b>£151 per acre</b>

Other costs may include liming, seedbed fertiliser, spraying, finance charges, bringing the cost to **£200 - £230 per acre**

### Average benefits in first production year (potential milk yield)

- +20% DM/acre = 800kg @ 11MJ/kg DM (old ley @ 10MJ) = + 12800MJ/kgDM
- 12800MJ = 1692litre milk @ UK average 23ppl = **£566 potential extra milk production**
- Milk yield is easier to quantify than LWG but it goes without saying that huge benefits from new grass leys will apply to both beef and sheep also

**RESEEDING PAYS - THE BENEFITS LAST FOR MANY YEARS!**





# White Clover

## **VIOLIN**

An excellent medium to large variety. Violin has good yields throughout the season coupled with good persistence under light defoliation.

## **IONA**

A very high yielding medium leaved White Clover. It has excellent ground cover after hard defoliation in autumn. Excellent yield in third harvest year.

## **CHIEFTAIN**

A medium leaved White Clover, high yielding in both harvest years of trials with good autumn ground cover under light defoliation. High yielding in the spring and autumn in the second harvest year.

## **AVOCA**

A medium leaved White Clover with very high yields in the 2nd and 3rd years of production. Avoca has excellent early season growth.

## **GALWAY**

A small leaved variety excellent under hard grazing. Very good spring growth in second and third years. A very adaptable variety under differing conditions.

### **CUTTING CLOVER BLEND**

A blend of large and medium leaved clovers specially created for mixtures that will be predominantly cut.

30%	Medium / Large White Clover
70%	Medium White

100%

### **DUAL PURPOSE CLOVER BLEND**

A blend of clovers for use in grazing and cutting situations. A true dual purpose blend.

15%	Medium / Large White Clover
70%	Medium White Clover
15%	Small White Clover

100%

### **GRAZING CLOVER BLEND**

A blend of small and medium leaved varieties to provide a vigorous blend which will thrive under hard grazing and respond well to aggressive forage grasses.

70%	Medium White Clover
30%	Small White Clover

100%



## Amenity Mixtures

A selection of standard mixtures from the DLF Masterline Range

Contains: **GroMax**  
by DLF

### PRO MASTER 51 (HARDWEARING LAWN)

A hard wearing mixture that will establish rapidly.  
Ideal for general purpose landscaping & lawns.  
Contains only BSPB UK listed cultivars.

30%	Double 4Turf	Tetraploid Perennial Ryegrass
30%	Esquire	Perennial Ryegrass
40%	Maxima	Strong Creeping Fescue

Packed into 10kg and 20kg bags

Sowing Rate 35 - 50g/m<sup>2</sup>

### PRO MASTER 52 (HIGH QUALITY FINE LAWN)

An economical, fine textured mixture, which will not be too demanding with regard to maintenance. Suitable for landscaping and lawns. Contains only BSPB UK listed cultivars.

30%	Wagner	Chewing Fescue
70%	Maxima	Strong Creeping Red Fescue

Packed into 10kg and 20kg bags

Sowing Rate 35 - 50g/m<sup>2</sup>





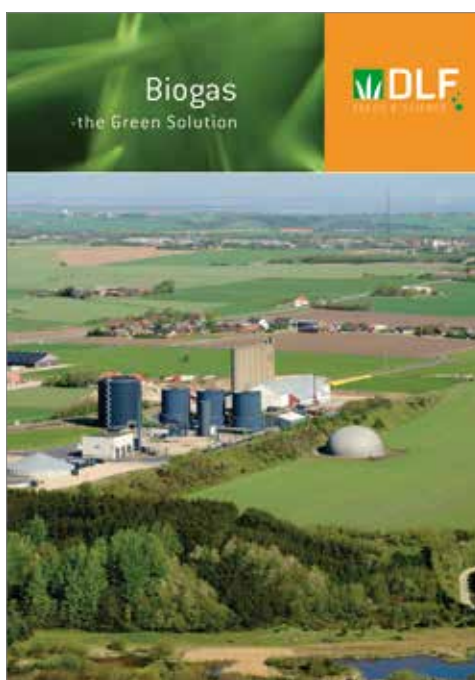
## Your Countryside

This year we have once again improved the 'Your Countryside' catalogue, which incorporates game covers, environmental stewardship, green manuring options and root crops. We hope this booklet will prove to be a valuable asset in helping you to choose the right seed for your own situation, whether it be for game cover, environmental stewardship or forage.



For your copy of **Your Countryside 2016**  
Contact Kevin at Farm Equip

## Biogas - The Green Solution



DLF are able to offer many solutions for biogas cropping be it grass based, maize or energy beet. For your biogas brochure please contact your DLF merchant.

# MORE MILK WITH DLF

More Milk With DLF is the concept whereby DLF focuses on the feeding value of grass. The development of the ForageMax® brand is aimed at launching new varieties and mixtures for livestock farmers. ForageMax® has become the most widespread forage grass brand in Europe and is being used in more than 25 countries.

The main topics in this year's programme:

- More Milk with DLF, defining the contents of the concept
- Working with DLF grass partners
- Grass fibre and DADF
- Efficient grass utilisation
- Overseeding and reseeding
- Grass for beef cattle, sheep and horses

We are confident that you will find information of interest in this brochure, which also contains the range of ForageMax® mixtures developed to suit various climates and purposes.

Available from **Kevin Tregunna**

**Farm Equip**  
**23 Leap Park**  
**Threemilestone**  
**Truro**  
**Cornwall**  
**TR3 6UB**



Thorn Farm, Inkberrow, Worcestershire, WR7 4LJ • Tel: 01386 791101 • Fax: 01386 792216

Unit 3, Saxilby Enterprise Park, Skellingthorpe Road, Lincoln, LN1 2LR • Tel: 01522 706510 • Fax: 01522 706519

10 Westerton Road, East Mains Industrial Estate, Broxburn, West Lothian, EH52 5AU • Tel: 01506 674800 • Fax: 01506 691212

DLF Ltd.

V.A.T. Registration No 650 3086 60 Registered in England & Wales Company Registration No. 2971802

Registered Office Thorn Farm Inkberrow Worcestershire WR7 4LJ