

**ENGLAND & WALES** 

HF Seeds mixtures have been chosen by profitable farmers since the early 1950's. The confidence that farmers have in using HF Seed has been justified by outstanding performance over many years, through sound principles of selecting varieties and species that will be resilient, high yielding and the first step in increasing livestock production due to their digestibility, density, hardiness and disease resistance.

From wet, exposed farms at over 1200 feet above sea level in the Scottish Highlands to free draining, low lying arable ground which can grow cereals and roots in the south of England, HF Seeds have mixtures that are proven to perform - each and every year. HF Seeds have been part of the worlds biggest breeder of grass and clover since 1996, DLF Seeds and our own DLF breeders working in the UK, Ireland, continental Europe, North America and New Zealand have supplied us with robust, flexible varieties, which have been trialled across the UK and Ireland and offer farmers an easy route to increasing yields of meat and milk. This increased livestock performance comes from higher yields of dry matter, with better disease resistance and increased sward density, as well as the now well publicised benefits of using grass varieties with much higher levels of digestible fiber. Breeding grass varieties with less ligneous fiber and more cellulose means we are developing grass mixtures that allow ruminant animals to do what they have been designed to do – extract more energy from measured as digestible neutral detergent fiber (DNDF) which we at HF Seeds call FIBER ENERGY.

With our recent purchase of the biggest seed breeder in the southern hemisphere, P G G Wrightsons of New Zealand, we are looking forward to their exciting portfolio of grasses, clovers and particularly leafy brassica crops for use in the UK and Ireland.

Farming is facing a very challenging time, with pressure on livestock farming from all sorts of different sources. We must ways of producing safe and nutritious food. Sowing HF grass mixtures will give you a good start in reducing other costly inputs, allowing greater use of home produced protein and energy. The EFA and AECS mixtures on pages 26 and 27 of this brochure can help mixed/ arable farmers start to restore their organic matter contents back to where they should be, making their soils better able to cope with water-logging, drought, mineral deficiencies and capturing considerable amounts of carbon.

With the backing of DLF, HF Seeds continues to go from strength to strength.





Alan Simpson Mains of Leslie, Inch, Aberdeenshire

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combination of HF Surecrop and HF11 for our grass mixtures. Farming 300 acres, mainly grass, we aim for two cuts of silage with the first cut











years







## **HF** Mixture Quality

ood grass mixture design begins with the assessment of individual variety characteristics and then uses this information to combine mixture components in different proportions to produce the best possible mixture for the intended duration and purpose of the final sward.

High yields of dry matter will always be one of the most important considerations, along with sward density and digestibility. It is important to also consider the ability of the mixture to perform under stress, drought or otherwise, its palatability and how resistant the mixture is to certain diseases – such as crown rust, mildew and increasingly dreschlera. Winter hardiness and density are the two main contributing factors leading to good persistency. HF Seeds mixtures are renowned for their persistency across harsh northern areas and their longevity, due to consistent performance over many years.



## Germination

There is a minimum germination for all certified seed used in the UK, but these standards are actually quite low. HF Seed varieties are selected from our own seed stocks that are at least 10% higher germination than the UK certification minimum standard. More live seeds in every bag is very important in producing dense, long lasting swards.

Species	UK Minimum Germination	HF Minimum Germination	HF Average 2019 Germination
Italian Ryegrass	75.0%	90.0%	91.0%
Perennial Ryegrass	80.0%	90.0%	94.0%
Timothy	80.0%	90.0%	95.0%

## **Purity**

UK grass seed certification also allows the possibility of the presence of relatively high levels of serious grassland weeds. At HF Seeds we impose our own freedom from weeds standards, which are unequalled elsewhere.

This table shows the potential number of weed seeds which could be sown (per acre) each time a field is reseeded. The advantages of HF Seeds rigorous purity standards are easy to see.

Possible Weed Seed Numbers per acre	UK Minimum Purity Standard	HF Minimum Purity Standard
Docks	1,250	0
Couch	30,000	2,500
Blackgrass	25,000	2,500

Possible Weed Seed Numbers per acre	Minimum Purity Standard	HF Minimum Purity Standard
Docks	1,250	0
Couch	30,000	2,500
Blackgrass	25,000	2,500

## **Selecting the Best Forage - Genomic Selection**

We all want it - more yield, higher quality, better stress tolerance and strong disease resistance.

Achieving top performance on all these traits simultaneously is a tremendous task and cannot be done without modern genetic techniques. The information about how each trait performs is the ryegrass genome and it is hidden behind the plant cell walls which we need to access. Through traditional breeding, rvegrasses make incremental improvements with every breeding cycle. DLF have developed ways of improving several traits at the same time by looking at the DNA code (the genes that actually determine plant performance) and with the help of a very large computer, selecting the best offspring from a cross - based on a simple DNA test, rather than waiting for 2 or 3 years for field data.

Diploid

Diploid

Tetraploid

Diploid

Diploid

Diploid

Tetraploid

Tetraploid

**Tetraploid** 

**STEM** 

**ELONGATION:** 

Time for making

silage with very high feeding value

HF FIBER ENERGY VARIETIES

Intermediate

Perennial Ryegrass

Intermediate

Perennial Ryegrass

Intermediate

Perennial Ryegrass

Late Perennial

Ryegrass

Late Perennial

Ryegrass

Late Perennial

**Ryegrass** 

Late Perennial

Ryegrass

Late Perennial

Ryegrass

Late Perennial

Ryegrass

**Nifty** 

Elyria

Diwan

Cavendish

Cancan

Smile

Thegn

**Twymax** 

Nashota

## Ruminant animals chew the cud to extract as much energy as possible out of each mouthful

This is what they do naturally and what makes them ruminants. By increasing the digestibility of the fiber through careful breeding, using the latest genomic breeding techniques we at DLF have been able to develop grass varieties with higher levels of digestible fiber, leading to more meat or milk from each kilogram of dry matter consumed.





Young immature leafy grass always produces forage with high digestibility but the plants have not bulked up enough so yields are low. If we leave grasses to bulk up for a larger crop then the digestibility historically falls, as illustrated below.



Time for making silage



**HEADING:** Time for making hay



Too late for forage harvest!

Digestible (DNDF)

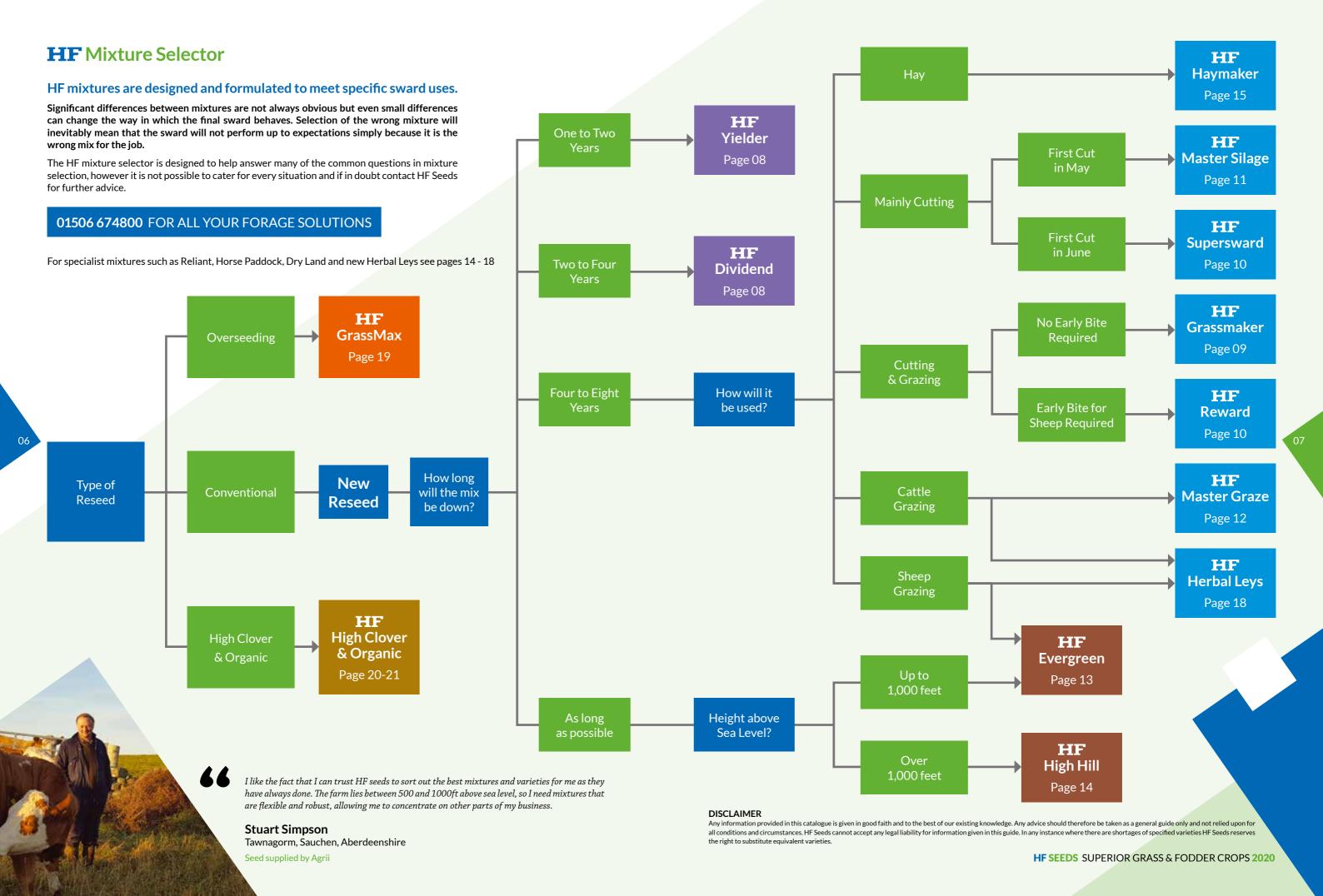
**VEGETATIVE:** 

Time for grazing

Indigestible (Lignin)



HF SEEDS SUPERIOR GRASS & FODDER CROPS 2020



#### **James Brown** and Partners Meikle Ussie, Dingwall

Seed Supplied by Scotgrain Agriculture

# HF Yielder

1 to 2 year mixture

#### FOX

Plus™

**Italian Ryegrass** 

#### **CAZZANO**

**Tetraploid Italian Ryegrass** 

# **PERSEUS**

**Italian Ryegrass** 

- PLUS

#### - High tetraploid content ensures high quality silage

- Capable of 3 or 4 quality cuts per year

Mainly Cutting Mixture

Yielder is designed for maximum

- The top yielding mixture

yield over two full production years

#### Not suitable for undersowing a cereal as too aggressive

**Recommended sowing rate:** 13-14 kg/acre 32-35 kg/HA

#### **MEDIUM TERM MIXTURES**

# HF Grassmaker

4 to 8 year mixture

#### **NIFTY**

Intermediate Perennial Ryegrass



#### **BOYNE**

**Intermediate Perennial Ryegrass** 

#### **ELYRIA**

Intermediate **Perennial Ryegrass** 



#### **SEAGOE**

**Tetraploid Intermediate Perennial Ryegrass** 

#### **TRIWARWIC**

**Tetraploid Intermediate Perennial Ryegrass** 

#### **TODDINGTON**

Late Perennial Ryegrass

#### **CANCAN**

Late **Perennial Ryegrass** 



#### **NASHOTA**

**Tetraploid Late Perennial Ryegrass** 



#### **WINNETOU**

Timothy

#### **HF DUAL PURPOSE CLOVER BLEND**

White Clover

## Dual Purpose Mixture

#### A flexible, rotational mixture renowned for its consistent yield and performance, under different management regimes

- Available available as a high clover and a no clover option

Feeding over 330 pedigree Holsteins requires consistent high silage yields and quality forage. HF Grassmaker and HF Reward are

the mixtures of choice for us. We take 3 cuts

every year with aftermath grazing.

Randalstown, County Antrim

Harry Thompson

- Contains the very best and most productive varieties
- Persistence is ensured by top class sward density and winter hardiness
- Specifically formulated for high FIBER ENERGY, giving increased meat or milk production per kg of dry matter

HF SEEDS SUPERIOR GRASS & FODDER CROPS 2020

#### **Recommended sowing rate:**

13-15 kg/acre 32-35 kg/HA

# HF Dividend

3 year mixture

# **PERSEUS**

- PLUS **Italian Ryegrass Plus**<sup>TM</sup>

# **LOFA**

- PLUS Hybrid Ryegrass **Plus**<sup>TM</sup>

#### SOLID **Tetraploid**

**Hybrid Ryegrass** 

#### **TETRAGRAZE Tetraploid**

**Hybrid Ryegrass** 

#### DIWAN

**Tetraploid** Intermediate **Perennial Ryegrass** 

#### **SEAGOE**

**Intermediate Perennial Ryegrass** 

#### HF CUTTING CLOVER BLEND

White Clover

## Mainly Cutting Mixture

Dividend is a high performance mixture suitable for Cutting or Grazing

- Contains a high proportion of RYEGRASS PLUS™ Grasses for big yields and stress tolerance
- Will provide 3 full years of quality silage or grazing
- High tetraploid content for rapid fermentation in the pit or grazing palatability
- HF CUTTING White Clover blend included at low percentage rate but may be changed to Red Clover
- **Recommended sowing rate:** 13-14 kg/acre 32-35 kg/HA



## Paul Magnay

Smallholms Farm, Chapelknowe, Dumfriesshire

Seed Supplied by Solway Agriculture



Seed Supplied by Stephen Walker

of CS Walker, Penrith



# HF Reward

4 to 8 year mixture

#### **GENESIS**

**Early Perennial Ryegrass** 

#### **ELYRIA**

Intermediate **Perennial Ryegrass** 



**NIFTY** Intermediate **Perennial Ryegrass** 



**Tetraploid** Intermediate Perennial Ryegrass



**Intermediate Perennial Ryegrass** 

#### **TODDINGTON**

Late Perennial Ryegrass

#### **CANCAN**

Late Perennial Ryegrass

# THEGN

**Tetraploid** 



DLF FIBER ENERGY Tetraploid Late Perennial Ryegrass

DLF FIBER ENERGY

#### **COMER**

**Timothy** 

#### HF DUAL PURPOSE **CLOVER BLEND**

White Clover

#### Dual Purpose Mixture

#### Similar to HF Grassmaker but containing early Perennial Ryegrass for early bite

- Specifically formulated for early spring growth
- Designed for early sheep grazing, prior to first cut silage
- Offers great flexibility to beef and sheep farms
- High inclusion of White Clover, the same as HF Grassmaker

#### Recommended sowing rate: 13-15 kg/acre 32-35 kg/HA

# HF Supersward

4 to 8 year mixture

#### **NIFTY**

Intermediate **Perennial Ryegrass** 



**Intermediate Perennial Ryegrass** 

#### DIWAN

Tetraploid Intermediate **Perennial Ryegrass** 



DLF FIBER ENERGY

#### **TIMING**

Late Perennial Ryegrass

#### **TODDINGTON**

Late Perennial Ryegrass

#### **NASHOTA**

Tetraploid Late Perennial Ryegrass

#### **ASPECT**

**Tetraploid** Late Perennial Ryegrass

**HF CUTTING CLOVER BLEND** 

White Clover

suitable for Cutting or Grazing

- Designed with later heading varieties for later areas

Dual Purpose/Cutting Mixture

 Varieties selected for high cutting yield and quality

Cutsward is a high performance mixture

- Slightly higher inclusion of Timothy for colder and later areas
- Excellent winter hardiness and sward density

#### Recommended sowing rate:

14-15 kg/acre 32-35 kg/HA

#### **MEDIUM TERM MIXTURES**



HF SEEDS SUPERIOR GRASS & FODDER CROPS 2020

# HF Master Silage

#### 3 to 5 year mixture

- PLUS

#### **TETRAGRAZE**

**Hybrid Ryegrass** 

**Tetraploid Hybrid Ryegrass** 

#### **BOYNE**

**LOFA** 

Plus™

**Intermediate Perennial Ryegrass** 

#### DIWAN

Tetraploid Intermediate

**Perennial Ryegrass** 

#### **SEAGOE**

**Tetraploid** 

**Intermediate Perennial Ryegrass** 

#### **TIMING**

Late Perennial Ryegrass

#### **NASHOTA**

Tetraploid

Late Perennial Ryegrass

#### THEGN

**Tetraploid** Late Perennial Ryegrasss



#### Intensive Cutting Mixture

#### Specifically designed for 3, 4 or even 5 cuts

- Formulated for high yields at first cut and subsequent cuts
- Designed for fast regrowth and quality, leafy silage
- Contains a substantial proportion of High FIBER ENERGY
- High sugar grasses and no Timothy ensures top quality

#### **Recommended sowing rate:**

13-15 kg/acre 32-35 kg/HA



I am delighted with the quantity and high quality silage that we make from our HF Seeds mixtures.

#### **Geoff Hewitt**

The photo shows the Krone

Quothquan Biggar, Lanarkshire Seed Supplied by Roadhead Farm Feeds.









**NIFTY** 

Intermediate **Perennial Ryegrass** 



DIWAN

Tetraploid Intermediate **Perennial Ryegrass** 



**TODDINGTON** 

Late Perennial Ryegrass

**SMILE** 

**Late Perennial Ryegrass** 



**CANCAN** 



**NASHOTA** 

**Tetraploid** Late Perennial Ryegrass



**ASPECT** 

Tetraploid Late Perennial Ryegrass

Recommended sowing rate: 13-15 kg/acre 32-35 kg/HA

Intensive Grazing Mixture

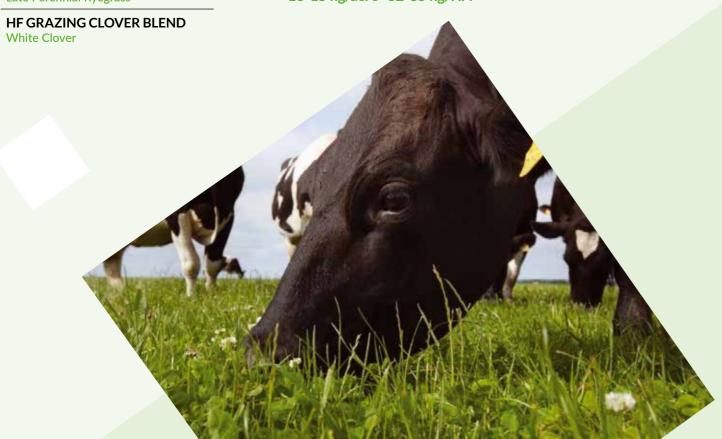
#### The ultimate cattle grazing mixture

- High tillering varieties selected from grassland. That's when I for a dense, leafy sward that cattle will graze out very bare
- Formulated to even out grass production for the whole grazing year
- Palatable, high sugar varieties with excellent sward density and with good levels of DNDF
- A high inclusion of HF Grazing White Clover blend and no Timothy leads to improved animal performance

On returning home from New Zealand I was determined to get more kilograms of live weight gain started using HF Seeds. Following discussions with Paddy Jack and Reg Thornthwaite it was decided on a medium to long term ley and supergraze was chosen because of high tillering, leafy sward with high sugars. Chicory was then added to the mix to improve protein for growth. This allowed me to rear hoggs and shearlings all year round. I run 1700 ewes and followers and if the grass isn't right the stock doesn't do as well.

#### Alastair Mackintosh Home Farm, Ravenglass, Cumbria

Seed Supplied by Reg Thornthwaite Agricultural



# HF **Evergreen**

8 year+ mixture

#### **GENESIS**

**Early Perennial Ryegrass** 

#### **ELYRIA**

Intermediate Perennial Ryegrass

Perennial Ryegrass



#### DIWAN

NIFTY

**Tetraploid** Intermediate Perennial Ryegrass

Intermediate



#### **SEAGOE**

**Tetraploid Intermediate Perennial Ryegrass** 

#### CANCAN

Late Perennial Ryegrass



#### **TODDINGTON**

Late Perennial Ryegrass

#### **ASPECT**

**Tetraploid** Late Perennial Ryegrass

#### **COMER**

Timothy

#### MAXIMA

Creeping Red Fescue

#### HF DUAL PURPOSE CLOVER **BLEND**

White Clover



We like to sow our HF Mixtures with Westerwolds to get a good cut in the year of sowing. The Following year the HF Grass thickens out and gives us an excellent persistent

#### Ian McHattie

Newfield Farm, Elgin

Seed supplied by Scotgrain Agriculture

#### The famous versatile long term mixture giving quality forage for many years

- A dual purpose mixture which has become synonymous with quality permanent grass
- Very persistent and winter hardy which contribute to its longevity
- Includes high levels of White Clover and Timothy
- Will produce plenty of early grass, even in harsher parts of England and Wales

Recommended sowing rate:

14-16 kg/acre 35-40 kg/HA



# HF High Hill

8 year+ mixture

**ELYRIA** 





#### **GLENROYAL**

Late Perennial Ryegrass

#### SMILE

Late Perennial Ryegrass



**ALFONSO** 

**Tetraploid** Late Perennial Ryegrass

**COMER Timothy** 

**MAXIMA** 

Creeping Red Fescue

HF GRAZING CLOVER BLEND

White Clover

Permanent Mixture

#### The long term grazing mixture

- Designed to survive in harsh upland areas and to produce high grazing yields
- Ingredients are selected for cold. snow tolerance and winter hardiness
- Contains a high inclusion of dense, leafy late Perennial Ryegrasses
- High content of both HF Grazing Clover blend and Timothy for lower input situations



We run over 400 ewes and 30 suckler cows on this upland farm. Over the last 4 years we have reseeded a lot more ground reducing our meal bill and pushing profits up I often undersow with a little Tyfon for that extra bite to fatten

Recommended sowing rate: 14-16 kg/acre 35-40 kg/HA

**Patrick Brolly** Foreglen Co, Derry

# HF Reliant

8 year+ mixture

**GENESIS** 

**Early Perennial Ryegrass** 

**NIFTY** 

Intermediate **Perennial Ryegrass** 



**Tetraploid** Intermediate **Perennial Ryegrass** 



DLF FIBER ENERGY

**Late Perennial** Ryegrass



**ALFONSO** 

Late Perennial Ryegrass

**COMER** 

**Timothy** 

**DONATA** Cocksfoot

**MAXIMA** 

White Clover

**Creeping Red Fescue** 

HF GRAZING CLOVER **BLEND** 

Permanent Mixture

#### A traditional mixture for more extensive or drought prone areas

- Contains Cocksfoot for early grass, winter survival and drought tolerance
- Formulated to provide season long production and outstanding persistency
- Can be closed off and cut for hay or silage
- Varieties and species selected for very good sward density

Recommended sowing rate: 14-16 kg/acre 35-40 kg/HA

# HF Haymaker

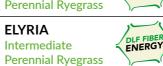
4 to 8 year mixture

**NIFTY** 

**ELYRIA** 

Intermediate Perennial Ryegrass

Intermediate



BOYNE

**Intermediate Perennial Ryegrass** 

**TODDINGTON** 

Late Perennial Ryegrass

**TIMING** 

Late Perennial Ryegrass

**COMER** Timothy

**DOLINA Timothy** 

**LAURA** Meadow Fescue

HF DUAL PURPOSE **CLOVER BLEND** 

White Clover

Hay Making Mixture

#### A modern mixture for traditional Haymaking

- A mixture of species used specifically in hay making
- Big yields of easily won hay (no Tetraploid Ryegrasses)
- Very high Timothy inclusion
- Good winter hardiness ensures consistent bulk for many years

**Recommended sowing rate:** 13-15 kg/acre 32-37 kg/HA



# HF Horse **Paddock**

4 to 8 year mixture

**PREMIUM** 

**Intermediate Perennial Ryegrass** 

**TODDINGTON** 

Late Perennial Ryegrass

MAXIMA

Creeping Red Fescue

15 kg Pack

**COMER Timothy** 

Equine Use Mixture

#### A hard wearing, persistant sward designed for horses

- Ryegrasses selected for top sward density ratings
- Formulated with attractive but low sugar forage to avoid laminitis
- Creeping Red Fescue binds the sward and helps repair poaching
- High Timothy content for grazing horses and to boost haymaking if required

**Recommended sowing rate:** 15 kg/acre 37 kg/HA



**LOFA** 

Hybrid





**PERSEUS** Italian

Ryegrass Plus®

Ryegrass Plus™





DIWAN Tetraploid

Intermediate **Perennial Ryegrass** 

**ASPECT** 

Tetraploid Late Perennial Ryegrass

**DONATA** Cocksfoot

Drought Prone Areas Mixture

A specialist mixture for sandy/light soils

- All species are very deep rooting

- Will produce a large bulk of forage, even in drought prone soil

Excellent disease resistance particularly crown rust which can be a big problem in hot, dry conditions

Suitable for cutting or grazing

**Recommended sowing rate:** 15 kg/acre 37 kg/HA



#### **SPECIALIST MIXTURES**

# HF

Over winter/early spring mixture

**MERIBEL** 

**Italian Ryegrass** 

**EMERALD** 

Forage Rape

**GREEN GLOBE** 

White Turnip

HF

Kale

**Forage Rape** 

**Stubble Turnips** 

Sheep Grazing Mixture

Designed to produce autumn and spring grazing

- Green Globe is a white fleshed, green skinned turnip providing good winter forage
- Do not leave it to grow too tall or the Italian Ryegrass will suffer

Recommended sowing rate: 9 kg/acre 22 kg/HA

**Rapid Root** 

- Best for pre-Christmas use

**Recommended sowing rate:** 

if stems left intact

- Very quick to bulk up

2.5 kg/acre 6 kg/HA

- Can produce some regrowth

# HF Winter Graze

Similar to HF CC, without the white

- Graze early to avoid damaging the Italian

- Great early spring growth from

Recommended sowing rate:

Forage Rape

**Stubble Turnips** 

Kale

HF

mixture

**MERIBEL** 

**EMERALD** 

Forage Rape

Sheep Grazing Mixture

the Italian Ryegrass

9 kg/acre 22 kg/HA

Ryegrass

**Italian Ryegrass** 

Over winter/early spring

- Sow this mix for post-Christmas use
- Very palatable and proven over many decades
- Can be sown after 2<sup>nd</sup> cut silage or after winter barley

Recommended sowing rate:

2.5 kg/acre 6 kg/HA

HF SEEDS SUPERIOR GRASS & FODDER CROPS 2020

Multipurpose Landscaper

Long term mixture

**TIMING** 

Late Perennial Ryegrass

MAXIMA

Creeping Red Fescue

Having used HF mixes for 4 years now we find it gives us the perfect dual purpose mix, providing excellent silage yield at both 1st and 2nd cut whilst also performing well for grazing both mid and late season. It is the ideal mix for us laying down for 4-5 years within our arable rotation to then be utilised fully.

> Iain Wilson Tulloch Farms, Laurencekirk

Seed Supplied by Frontier Agriculture

Landscaping Mixture

Ideal for riverbanks, verges, fruit farms and orchards

- Extreme sward density and good wear tolerance

- Designed to be low maintenance

- Much lower sowing rate than an amenity type mixture

- Has an attractive appearance with a good dark green colour

Recommended sowing rate:

25 kg/acre 65 kg/HA







Plantain - Ribgrass

HF RED CLOVER BLEND

**Red Clover** 

HF GRAZING CLOVER BLEND

White Clover

**ASPECT** 

**Tetraploid** Late Perennial Ryegrass Rotational Grazing Mixture

HF Seeds most successful simple herbal mixture. 3 years of outstanding performance in farm trials

- Highly palatable and nutritious as long as it is well managed
- Tolerant of poorer soils. with slightly lower pH status and very drought resistant
- The clovers have been selected to withstand hard rotational grazing
- Aspect is a late, dense tetraploid ryegrass which is known for its exceptional palatability and ease of rotational grazing management

Recommended sowing rate:

8 kg/acre 20 kg/HA



For cutting and grazing fields

DIWAN Intermediate Perennial Ryegrass (T)

**ASPECT** Late Perennial Ryegrass (T)

**ALFONSO** Late Perennial Ryegrass (T)

HF DUAL PURPOSE **CLOVER BLEND** 

White Clover

- The top selling overseeding mixture for cutting and grazing fields
- Ryegrass varieties are selected for performance under both cutting and grazing
- Very good resistance to all the main grass diseases
- Recommended sowing rate: 10 kg/acre 25 kg/HA

HF **GrassMax ASPECT** Late Perennial Ryegrass (T)

**SOLAS** Late Perennial Ryegrass (T) IONA Medium Leaf White Clover

- Designed for overseeding fields where the existing sward remains competitive
- Each seed is coated with ProNitro, a nitrogenous fertiliser with both fast and slow release
- Increases successful seedling establishment by up to 30%
- Recommended sowing rate: 10 kg/acre 25 kg/HA

# HF **Rapid Gain**

3 to 4 year mixture

CHOICE

**Perennial Chicory** 

**TONIC** 

HF RED CLOVER BLEND

Red Clover

HF GRAZING CLOVER BLEND

White Clover

**ASPECT** 

Late Perennial Ryegrass

Rotational Grazing Mixture

One of the newer mixtures from HF for sheep and cattle, containing both perennial chicory and plantain



For cutting fields

**ASTONCRUSADER** Tetraploid Hybrid Ryegrass

DIWAN Intermediate Perennial Ryegrass (T)

**ALFONSO** Late Perennial Ryegrass (T)

**HF CUTTING CLOVER BLEND** 

White Clover

- Ryegrass content is 100% large tetraploid seeds which establish aggressively and boost sugar content
- Designed to improve silage yields in tired or open swards, sow after the last cut of the season
- Is also available in a Red Clover option, with 30% inclusion (HF GRASSMAX RED)
- Recommended sowing rate: 10 kg/acre 25 kg/HA



For grazing fields

**ASPECT** Late Perennial Ryegrass (T)

**SOLAS** Late Perennial Ryegrass (T)

**KINTYRE** Late Perennial Ryegrass (T)

**HF GRAZING CLOVER BLEND** 

White Clover

- All 3 varieties selected for grazing yield and low grass residuals as trialled in Ireland
- Exceptionally palatable varieties, leading to easy paddock management
- Can be drilled at any time during the grazing season

Recommended sowing rate:

10 kg/acre 25 kg/HA

HF GrassMax mixtures are also available WITHOUT CLOVER

Iain MacKenzie

Sowing HF GrassMax into tired fields in Sutherland Seed supplied by W & A Geddes, Brora

Photo by Kirsty MacKenzie

HF SEEDS SUPERIOR GRASS & FODDER CROPS 2020



2 to 3 year mixture

#### **ASTONCRUSADER**

**Tetraploid Hybrid Ryegrass** 

#### SOLID

**Tetraploid Hybrid Ryegrass** 

#### LOFA

Hybrid Ryegrass Plus™





**PERSEUS** Italian





#### **SEAGOE**

**Tetraploid Intermediate Perennial Ryegrass** 

#### DIWAN

**Tetraploid Intermediate Perennial Ryegrass** 



HF RED CLOVER BLEND

**Red Clover** 

# Mostly Cutting Mixture

#### A High Performance Red Clover Mixture

- Red Clover is included at the optimum 25% rate to produce lots of high protein silage
- Contains aggressive, fast growing species that can compete with the Red Clover
- High sugar varieties included to give good fermentation

Can give up to 3 cuts per year and can last for 3 full years

Recommended sowing rate:





# HF **High Clover**

## **GRAZE**

#### 5 year+ mixture

#### **ELYRIA**

NIFTY

Intermediate **Perennial Ryegrass** 



DLF FIBER

# **Perennial Ryegrass**

**EVOCATIVE** 

Late Perennial Ryegrass

#### **GLENROYAL** Late Perennial Ryegrass

**SMILE** 

# Late Perennial Ryegrass

#### **ASPECT**

**Tetraploid Late Perennial Ryegrass** 

#### **THEGN**

**Tetraploid** Late Perennial Ryegrass



#### HF GRAZING CLOVER BLEND

White Clover

#### Mostly Grazing Mixture

#### Leafy, dense swards

- Varieties are selected for their grazing performance
- Contains mostly late Perennial Ryegrass that can withstand heavy grazing
- High FIBER ENERGY varieties leading to excellent animal performance
- The small and medium leaf clovers are selected for their persistency under grazing

#### **Recommended sowing rate:**

14-15 kg/acre 35-37 kg/HA

All the HF High Clover Mixtures are available as Organic Mixtures

Organic seed inclusion at 50% for 2020



#### 4 to 8 year mixture

#### **ELYRIA**

DIWAN

Intermediate **Perennial Ryegrass** 



DLF FIBER

#### Tetraploid Intermediate **Perennial Ryegrass**

## **EVOCATIVE**

Late Perennial Ryegrass

Late Perennial Ryegrass

#### SMILE

Late Perennial Ryegrass



## **THEGN**

Tetraploid Late Perennial Ryegrass

#### **COMER** Timothy

#### HF RED CLOVER BLEND

**Red Clover** 

#### HF DUAL PURPOSE **CLOVER BLEND**

White Clover

#### **Dual Purpose Mixture**

#### A very flexible mixture

- Contains high FIBER **ENERGY** varieties with excellent forage quality
- High percentage of tetraploids to help fermentation and aid the growth of clovers
- Small Red Clover inclusion to help with nitrogen fixation in the early years
- A high proportion of HF Dual Purpose Clover is included for increased production

## **Recommended sowing rate:**

14-15 kg/acre 35-37 kg/HA

# HF **Alfalfa**

Varieties that are suitable for sowing in northern UK climates

**FADO** 

**SALSA** 

DAISY

POWER 2.4

### Mostly Cutting Crop

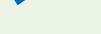
#### HF Alfalfa is a leguminous crop which suits light or medium soils

- Increased self-sufficiency with 18 20% protein
- Higher feed intakes and improved digestibility
- Fixes nitrogen for companion and subsequent crops
- Has a very long, deep tap root which makes Alfalfa drought tolerant and improves soil structure a lot

#### Recommended sowing rate: 10 kg/acre 25 kg/HA







HF SEEDS SUPERIOR GRASS & FODDER CROPS 2020

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# **HF** Grass Varieties

Variety	Species	Description	SAC	NIAB	
PERENNIAL RY	E GRASSES				
Genesis	Early	Good dual purpose variety with excellent early growth.	1	✓	
Boyne	Intermediate	Very high yielding variety with very dense characteristics	1	✓	
Elyria	Intermediate	Exceptionally dense variety with excellent yields and quality	1	✓	DLF FIBER
Nifty	Intermediate	Excellent ground cover combined with exceptional grazing yields & quality	1	1	DLF FIBER ENERGY
Premium	Intermediate	Good mid season growth, a dual purpose variety	1		
Diwan	Intermediate (T)	Good all round variety offering good yields and high DNDF	1	✓	DLF FIBER ENERGY
Triwarwic	Intermediate (T)	Good grazing yields with exceptional crown rust resistence	2	✓	
Seagoe	Intermediate (T)	Good early & late season growth from this top performing variety	1	✓	
Astonchieftain	Late	Excellent grazing from this very late, dense leafy variety	1		
Evocative	Late	Superb late diploid scoring exceptionally well for yields and D Value	1		
Glenroyal Late		Good mid and late season growth, with a very dense sward rating	1		
Smile	Late	High quality variety with excellent yields and autumn performance	1	✓	DLF FIBER ENERGY
Timing	Late	Good early summer growth with excellent crown rust resistance	2	✓	
Toddington	Late	Good dual purpose forage variety with good disease resistance & density	1	✓	
Alfonso	Late (T)	Exceptionally dense Tetraploid with good early and late growth	1	✓	
Aspect Late (T)		Dense, winter hardy and exceptionally palatable	1	✓	
Kintyre	Late (T)	Excellent cutting yields & outstanding aftermath grazing	1	✓	
Nashota	Late (T)	Good density for a Tetraploid with high quality and yields	1	✓	DLF FIBER ENERGY
Thegn	Late (T)	Exceptional grazing yields and quality with excellent ground cover	1	1	DLF FIBER ENERGY

	G :	2	CAG	NUAD	
Variety	Species	Description	SAC	NIAB	
TIMOTHY					
Comer	Timothy	Excellent groundcover with top yields in both first and second cuts	1	1	
Dolina	Timothy	Winter hardy with good early & late season growth	1	<b>√</b>	
WHITE CLOVE	R				
Brianna	White Clover Large	New and extremely large white clover which has excellent scores in all categories	1	✓	
Violin	White Clover M/L	Highest yielding clover on the recommended list, outstanding variety	1	1	
Dublin	White Clover M/L	Sister variety to Violin, it has exceptional yields under all managements	1	<b>√</b>	
Iona	White Clover Medium	Excellent growth throughout the season, rated AA for ground cover	1	<b>√</b>	
Buddy	White Clover Medium	Another top rated medium leaved clover from DLF, excellent early growth	1	<b>√</b>	
Rivendel	White Clover Small	A useful small leaved clover that is tried and tested scoring well in all categories	1		
RED CLOVER					
Amos	Red Clover (T)	Particularly high yielding at 1st cut and in year 1 and 2	1	✓	
Magellan	Red Clover (T)	Highest yielding variety on the SAC list. Outstanding 3rd year production	1	1	
Sangria	Red Clover	A good strong French Red Clover that measures up well against others	N/A	N/A	
<b>ITALIAN RYEG</b>	RASS				
Fox	Italian	Consistent yields for 2 full production years with good crown rust resistance.	1	✓	
Meribel	Italian	High yielding IRG that has the best D-Value rating of all diploids in its class	1	✓	
Hunter	Italian (T)	An excellent tetraploid Italian Ryegrass that has good 1 <sup>st</sup> year growth	2	1	
<b>HYBRID RYEG</b>	RASS				
Astoncrusader	Hybrid (T)	High yielding and dense in the first year of sowing and first cut, also very dense	1		
Solid	Hybrid (T)	High yielding dense hybrid with good winter hardiness	2	1	
FESTULOLIUM					
Lofa	Hybrid Festulolium	Excellent stress tolerance with fantastic early growth	N/A	N/A	
Fojtan	Tall Fescue Festulolium	High yielding , winter hardy & persistent. No stems in regrowth	N/A	N/A	
Perun	Italian Festulolium	Better persistence than a traditional Italian with high quality forage	N/A	N/A	
Perseus	Italian Festulolium	Huge production of leafy growth from this late heading Festulolium	N/A	N/A	





# Fodder Beet

High yielding and palatable. High dry matter varieties sit lower into the ground, are more frost tolerant but often have a higher dirt tare. Medium dry matter varieties sit out of the ground more, are easier to harvest and may be grazed. Good weed control is essential when establishing fodder beets.

Variety	Colour	Comments
Alpes Yellow		Easy lifting variety, very clean, popular
Bangor Yellow		High yielding above the ground and excellent for grazing in situ
Monro Red		Low DM, high yielding variety for grazing in situ
Jamon Orange Enermax White Magnum White		Very palatable. Can be grazed in situ
		A dual purpose variety, very high yields, clean
		A well-known reliable variety. High DM, low growing

# Forage Rape and Hybrids

This fast growing crop can be utilised by cattle and sheep and has a wide period of utilisation (mid summer and autumn). Highly digestible energy crop which is very palatable and is relatively simple to establish.

	Variety	Туре	Comments
Emerald		Forage rape	Very popular, fast establishing and palatable. Good disease resistance. Proven over many years in all areas
	Spitfire	Rape x kale cross	High DM yields of palatable leafy growth. Stems have a low DM so are often grazed. Has good regrowth potential
	Zoom (Composite)	Hybrid brassica and rape	A mixture of Winfred hybrid brassica and forage rape which is exceptionally quick to establish and has excellent leaf to stem ratio

# **66**

This is a very fertile little field and although it doesn't look like it, it has had no fertiliser or muck. I was sure I had completely lost it to flea beetle and a cold spell in late spring, however I can hardly believe how it has been able to recover into such an outstanding crop. Zoom is a very appropriate name for the growth I've seen this year.

Alyn Bridgeford Ellon, Aberdeenshire

Seed Supplied by Scotgrain Agriculture

# Kale

The highest yielding leafy brassica. Grazed by sheep and cattle and occasionally ensiled. Good frost tolerance, but MUST be looked after with good fertility, weed and pest control.

Variety	Height	Use	Comments
Corsa NEW	Intermediate/Tall	Cattle & sheep	NZ bred with excellent winter hardiness and a high leaf to stem ratio (8% above Caledonian) Stem has high digestibility
Goldeneye	Very tall	Game cover	Strong stem and leafy top, club root tolerant
Gruner Angeliter Very tall		Cattle	Winter hardy and very high yielding
Maris Kestrel	Medium short	Sheep	Popular leafy sheep grazing variety
Sovereign	Medium tall	Cattle & sheep	High leaf to stem ratio, winter hardy and club root tolerant. Our best selling kale

# **Stubble Turnips**

Stubble turnips are a fast growing catch crop that are ready to start grazing from 10 to 12 weeks after sowing. Bulbing types are more winter hardy than leafy types, which have better root systems.

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Variety	Туре	Comments	4
Barkant	Bulb	Very popular high yielding variety with some winter hardiness. Roots are slightly smaller, but highly digestible	
Rondo	Bulb	Small green bulb with excellent winter hardiness. Best variety for late use	
Samson	Bulb	A good size and shape to this large bulb. Popular variety.	
Vollenda Bulb		Large leaves on this fast establishing tetraploid variety. Good bulb size and palatability	•
<b>Avalon</b> Leafy		A new variety. Very leafy and covers the ground quickly	
Tyfon	Leafy	It is a cross between a Chinese cabbage and a stubble turnip. Fast growing with reasonable potential for regrowth	
Green Globe	Maincrop	Very high fresh yields from large, well anchored and palatable roots.  Can be utilised to the end of January	

# **Swedes**

Swedes are a full season crop that will last until the end of March or early April. They may be grazed in situ or lifted for stock feed or culinary use. They perform well in England producing 70 to 80 tonnes of fresh weight per hectare of high ME feed (12.8 to 13.1 MJ/kg DM).

Variety	Skin Colour	Flesh Colour	Dry Matter	Comments
Airlie	Light Purple	Creamy white	Low/Medium	Good disease resistance and very uniform
Gowrie	Purple	Yellow	Medium	Uniform, high yielding and has some club root tolerance and good mildew
Invitation	Purple/Bronze	Yellow	Very high	Very high yielding and winter hardy. Excellent resistance to club root and mildew
Kenmore	Bronze/Green	White	Medium	Good winter hardiness giving a wide window of utilisation. Big fresh yields
Lomond	Purple	Yellow	Medium/High	Good club root and mildew resistance
Marian	Purple	Yellow	Medium	A good culinary variety
Ruta Otofte	Dark Purple	Cream	Medium/High	Very popular variety with sheep farmers. Good winter hardiness

# Stewardship Stewa The Fodder Radish Stewardship EF6 EF22 EJ10 EJ13 Scheme Selector AB13 AB13 Forage Rye **Selector Entry Level Stewardship** selector with options that are also available under **Higher Level Stewardship Schemes**

Countryside Stewardship Scheme Description			
CSS Higher Tier	CSS Mid Tier	CSS Code	CSS Option Title
Arable			
1	1	AB1	Nectar flower mixture
1	1	AB2	Basic overwinter stubble
1	1	AB3	Beetle banks
✓	1	AB7	Wholecrop cereals
1	/	AB8	Flower-rich margins & plots
✓	1	AB9	Winter bird food
✓	1	AB13	Brassica fodder crop
✓	1	AB15	Two year sown legume fallow
✓	1	AB16	Autumn sown bumblebird mix
Grassland			
1	/	GS1	Take field corners out of field management
✓	1	GS3	Ryegrass seed-set as winter food for birds
✓	1	GS4	Legume and herb-rich swards
✓		GS8	Creation of species-rich grassland
✓		GS14	Creation of grassland for target features
Organic			
1	1	OP1	Overwintered stubble
✓	1	OP2	Wild bird seed mixture
1	/	OP4	Multi-species ley
1	1	OP5	Undersown cereal
Soil and Water			
/	/	SW1	4-6m buffer strip on cultivated land
✓	1	SW2	4-6m buffer strip on intensive grassland
✓		SW3	In-field grass strips
✓	1	SW4	12-24m watercourse buffer strip on cultivated land
✓	1	SW5	Enhanced management of maize crops
✓	1	SW6	Winter cover crops
✓	1	SW7	Arable reversion to grassland with low fertiliser input
✓	✓	SW8	Management of intensive grassland adjacent to a watercourse
Wetlands			
✓	1	WT1	Buffering in-field ponds and ditches in improved grassland
1	1	WT2	Buffering in-field ponds and ditches in arable land

and Countryside Stewardship Scheme.

ELS & HLS Description					
ELS Code	HLS Code	OELS Code*	ELS & HLS Description		
Options for trees and woodland					
EC24			Hedgerow tree buffer strips on cultivated land		
Options for	buffer strip	os			
EE1		OE1	2m Buffer strips on cultivated land		
EE2		OE2	4m Buffer strips on cultivated land		
EE3		OE3	6m Buffer strips on cultivated land		
EE8		OE8	Buffering in-field ponds in arable land		
EE9		OE9	6m buffer strips on intensive grassland next to a watercourse		
	HE10		Floristically enhanced grass buffer strips (non-rotational)		
EE12		OE12	Supplement to add wildflowers to field corners & buffer strips		
Options for arable land					
EF1		OF1	Management of field corners		
EF2		OF2	Wild bird seed mixture		
EF4		OF4	Nectar flower mixture		
EF6		OF6	Overwintered stubble		
EF7		OF7	Beetle banks		
	HF12		Enhanced wild birdseed mix plots (rotational or non-rotational)		
EF22			Extended overwintered stubble		
Options to encourage a range of crop types					
EG1		OG1	Under sown spring cereals		
Options to protect soil and water					
EJ2		OJ2	Management of maize crops to reduce soil erosion		
EJ5		OJ5	In-field grass areas to prevent erosion and run-off		
EJ9		OJ9	12m buffer strips for watercourses on culitvated land.		
EJ10			Enhanced mgmt. of maize crops to reduce soil erosion & run off		
EJ13		OJ13	Winter cover crops		
Options for	grassland o	outside the	severely disadvantaged areas (SDAs)		
EK20		OK20	Ryegrass seed-set as winter/spring food for birds		
		OK21	Legume and herb-rich swards		

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#### \* Use only organic seed mixes on OELS-eligible land.

Where this is not possible, you must contact your Organic Inspection body for a derogation.

# **Nectar Flower Mixtures**

# (AB1)

•	•		
Nectar Rich Gold		Necta	ar Rich B
40%	Sainfoin	50%	Sainfoin
18%	Winter Vetch	20%	Winter V
10%	Alsike Clover	10%	Red Clov
10%	Red Clover	8%	Birdsfoo
10%	Birdsfoot Trefoil	5%	Alsike Cl
10%	Lucerne (inoculated)	4%	Crimson
1.5%	Musk Mallow	3%	Lucerne
0.5%	Yarrow	100%	
100%		Sowing	rate 10 -
Sowing rate 10 - 15kg /ha Pack size 12kg		-	ze 12kg

# Legume & Herb Rich Mixture

# (GS4)

25%	Late Perennial Ryegrass (D)
20%	Meadow Fescue
15%	Timothy
10%	SSMG
10%	Creeping Red Fescue
10%	Red Clover
5.6%	Sainfoin
1.43%	Lucerne (inoculated)
1%	Birdsfoot Trefoil
1%	Sheeps Burnet
0.5%	Ribwort Plantain
0.25%	Yarrow
0.2%	Sheeps Parsley
0.02%	Oxeye Daisy

#### 100%

Sowing rate 32 - 37kg/ha Pack size 20kg

# Flower Rich Margins (AB8)

#### **BGM 4 with Wildflowers** & Fine Grasses

Sainfoin

Red Clover

SSMG

Chewings Fescue Hard Fescue

Crested Dogstail Winter Vetch

**Browntop Bent** 

Birdsfoot Trefoil

Black Medick

Alsike Clover

Oxeye Daisy

0.3% Red Campion (N)

0.25% Ribwort Plantain

Yarrow

0.4% Wild Carrot

Slender Red Fescue

Creeping Red Fescue

-14	NI4-	D: -l- D	25%
old		ar Rich Bronze	20%
	50%	Sainfoin	15%
etch	20%	Winter Vetch	15%
ver	10%	Red Clover	5%
er	8%	Birdsfoot Trefoil	4%
Trefoil	5%	Alsike Clover	
inoculated)	4%	Crimson Clover	4%
llow		Lucerne (inoculated)	3.5%
IIOW	<u> </u>	Lucer ne (moculateu)	2.25%
	100%		2%
	Sowing	1%	
Elva /ba	Pack si	1%	
L5kg/ha	Pack Si	0.5%	
			0.4%
			0.4%

## 100% SIMPLE MIX

Sowing rate 16 - 20kg/ha Pack size 20kg

#### Flower Rich

Marg	in Mixture
25%	Slender Red Fescue
15%	Hard Fescue

12% Chewings Fescue

10% SSMG

10% Crested Dogstail

5% Smaller Cats Tail

3% Browntop Bent

3% Sainfoin

3% Winter Vetch

2.5% Birdsfoot Trefoil 2.5% Black Medick

2% Red Clover

1.25% Oxeye Daisy

1.20% Wild Carrot

1.20% Yarrow

1% Red Campion (N)

1% Ribwort Plantain 0.5% Musk Mallow

0.5% Self Heal (N)

0.25% Yellow Rattle (N)

0.1% Salad Burnet (N)

#### 100%

**QUALITY MIX** Sowing rate 16 - 20kg/ha Pack size 10kg & 20kg

# Winter Bird Feed

# (AB9)

#### WBS 1

#### 1 Year Spring Sown **Attracts Tree Sparrows**

50% Spring Triticale 40% Spring Barley

5% White Millet

3% Fodder Radish

2% Red Millet

#### 100%

Sowing rate 40kg/ha Pack size 20kg

#### WBS 2

#### 1 - 2 Year Spring Sown **Attracts Grey Partridge**

45% Spring Triticale 20% Spring Barley

15% Spring Wheat

7% Kale

4% Fodder Radish 4% White Millet

3% Quinoa

2% Red Millet

100% Sowing rate 40kg/ha

Pack size 20kg

There are many other options and mixtures for Stewardship in England and Wales.

For further advice in the specialist area of game cover, environmental stewardship and fodder crops or to request an HF Countryside brochure

Please contact your HF distributor or phone HF Seeds direct on 01506 674800





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