

GRASS & FORAGE SEEDS
2023

HUTCHINSONS

www.hlhlttd.co.uk



HUTCHINSONS

A desire to provide our customers with successful crops through seed quality, variety selection and sound practical advice has led to Hutchinsons securing the confidence and support of farmers throughout the UK.

The continued testing and assessing of our range at Hailes Farm and elsewhere enables us to see benefits and challenges. This breeds confidence in probable farm performance and hence, success on the farms of our patrons. If your business succeeds, then ours can too.

The extreme weather conditions of recent times makes producing forage a real challenge, but one that we are happy to help with and we are confident that the Oliver range that we promote can more than meet the needs of our growers. Home grown forage is the keystone to farm profitability and sustainability so now is the time to talk to us to ensure that the fields at home are capable of supplying the farm's needs in the future. Low yielding and damaged pasture will need attention and careful ley selection is important to get the right result from your grassland.



Service & Support

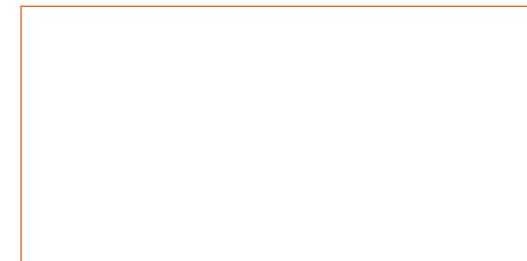
We would be pleased to help and advise on all aspects of your seed requirements.

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Contents

Ley Formulation and Seed Quality	06 - 07
Attributes of Herbs	08 - 09
Organic Seed Solutions	10
Oliver Seeds Ley Selector	11
Short Term Leys	12 - 17
Medium - Long Term Leys	18 - 35
Landmark Leys	36 - 41
Hay & Haylage Leys	42 - 43
Overseeding and Pasture Renovation	44 - 45
ProNitro® Nitrogen Coated Seed	46 - 47
Equine Grass Leys	48 - 49
Lucerne, Clover and Legumes	50 - 55
Forage & Undersown Maize	56 - 57
Wholecrop Forage Mixtures	58 - 59
Forage Root & Catch Crops	60 - 65
Game Cover Crops	66 - 67
Stewardship and Environmental Leys	68 - 73
Cover Crops and Soil Conditioners	76 - 79
Amenity Grass, Landscaping and Sports Solutions	80 - 81
Wildflower Solutions	82 - 85

Occasionally, shortages of some varieties may occur throughout the season.
We therefore reserve the right to replace varieties not available with a suitable alternative.
Any alteration to the mixture will be clearly shown on the bag label.
Our standard terms and conditions apply, these are outlined on the reverse of our invoices.

Ley Formulation and Seed Quality

Stage One

Our ley formulation process is to utilise the largest grass and clover testing facility in the UK at Hailes Farm, Didbrook near Winchcombe. These trials give us the opportunity to test species and different mixture formulas so that farm recommendations can be based on results not guesses.

Stage Two

To use the recommended lists of seed varieties, in conjunction with trials at colleges and farms to gain more information especially about grazing preference and adverse sites under different management systems.

Stage three

We believe that the highest germination levels from the cleanest seed lots are the starting point for successful leys. Stage 3 of our mixture formulation process is to secure these stocks for processing and packing.

The benefits to you are:



**Proven,
High Quality Leys
That Offer Better
Farm Performance**



Fiber Energy

Varieties denoted as "Fiber Energy" are those that contain higher levels of cell wall digestibility, hence they can extract more energy from grass and reduce production costs.



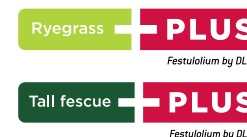
Discover the science behind DLF Fiber Energy



www.bit.ly/FiberE

Grass PLUS

Ryegrass PLUS™ and Tall Fescue PLUS™ varieties belong to the new festulolium species. These are hybrids of fescue and ryegrass that can offer greater yield, persistence, stress tolerance and disease resistance.



Grass PLUS - Roots & Droughts Explained



www.bit.ly/GrassPLUS

Attributes of Herbs

There is much interest in the use of forage herbs as broad leaved plants so the summary below may help guide you in your selection.

Chicory

A fast establishing, deep rooted and drought resistant species that offers anthelmintic properties to help reduce the worm burden in animals. Chicory is high in protein, minerals and trace elements and should be grazed regularly to stimulate leaf production and avoid stem formation. Best to omit from leys aimed at hay or silage production due to coarse, woody and unpalatable stem formation. Prefers a free draining, fertile soil and perennial varieties like "Choice" exhibit greater persistency.

Ribwort Plantain (also known as Ribgrass)

Capable of rapid establishment and drought tolerant, Plantain is also very palatable and high in minerals with new varieties like "Tonic" showing increased leaf yield and persistence. Plantain is more forgiving of different soil types and accepts a wider pH range than Chicory but heavy, wet soils should be avoided.

Sheep's Burnet (also known as Salad Burnet)

Another Herb that is quick to establish and palatable offering early spring growth and an extended grazing season. Penetrating tap roots that are rich in trace elements enable the species to show good drought tolerance and the leaves are quite frost hardy.

Sheep's Parsley

A palatable herb that is slower to establish than the above three species but still an integral ingredient where a spread of herbs are desired. Again, tap roots offer drought tolerance and the ability to uptake and impart beneficial minerals and trace elements is a great advantage.

Yarrow

A vast number of seeds per kilo means that a small amount of Yarrow goes a long way. Slower to establish than any of the above but very persistent due to it's rhizomatous nature. Yarrow grows in any soil, but survives well on dry sites and has aromatic, fern like leaves. It has long been a medicinal constituent of herbal remedies.



Herbs

Forage grass species contain adequate levels of energy and protein, but they can be unreliable sources of trace elements, especially on mineral deficient soils. Sowing herbs can increase the availability of key nutrients and improve stock performance.

TIP

Plant strips on headlands in grazing fields at sowing time, grazing stock will always find the Herbs

Mineral Content of Species	P	K	Ca	Mg	Na	Cu	Co	Se
Chicory	○	○	○	○	○	○	○	○
Plantain			○	○	○	○		○
Sheep's Burnet			○	○				
Sheeps Parsley	○	○	○	○	○			
Yarrow	○	○	○	○		○		○
Sainfoin	○	○	○	○	○			

Packed separately from grass in 1kg units
Seed Rate 0.5 to 1kg/acre

○ = Mineral content is more than Perennial Ryegrass

Organic Seed Solutions



Oliver Seeds are very proactive on the organic grass front and are pleased to be able to offer

Organic alternatives to OUR TOTAL RANGE of conventional grass seed mixtures.

The constituents of these mixtures will vary from the conventional range printed in this brochure.

We are also able to formulate specific mixtures to meet individual requirements as necessary.

We are also usually able to offer ORGANIC seed of many of our other products or where this is not available, untreated seed (derogation required).

The minimum amount of ORGANIC grass seed in a mix has been set at

70%
for 2023

Oliver Seeds™
Organic



Full details of all Oliver Seeds 70% ORGANIC Grass seed mixtures are available on request 01506 894822

Ley Selector

		Duration				Page
		1-2 years	3 years	4 years	5 years +	
TORNADO	Cutting					13
RAPIER	Cutting					15
RAPIER HI-PRO	Cutting					15
SABRE	Cutting					17
SABRE HI-PRO	Cutting					17
BROADSWORD	Dual Purpose					19
BROADSWORD HI-PRO	Dual Purpose					21
JAVELIN	Dual Purpose					23
MEGABITE	Mainly Grazing					25
CLAYMORE	Mainly Cutting					27
CLAYMORE ECOTAIN®	Mainly Grazing					29
FORTRESS	Dual Purpose					31
CENTURY	Dual Purpose					33
CELT	Dual Purpose					35
LANDMARK SPECTRUM	Dual Purpose					37
LANDMARK EXTREME	Dual Purpose					39
LANDMARK PERMANENT	Mainly Grazing					41
MEADOW HAY MIXTURE	Cutting					43
HAYLAGE MIXTURE	Cutting					43
TYPHOON OVERSEEDING MIXTURE	Dual Purpose					45
GRASSMAX™ PRONITRO®	Dual Purpose					47
Paddock MIX	Dual Purpose					49
HORSE HERB GRAZING MIX	Grazing					49
CRIMSON TIDE	Dual Purpose					65

Standard leys with or without white clover High clover/legume based mixtures

To a degree, all leys can be dual purpose but the table above gives an indication of the main purpose behind the design of the ley

Short Term Leys

This category features leys that are usually required to last from one to three years. These leys are designed for fast establishment and highest yield potential

Tornado The Ultimate Catch Crop!

Catch crop Ryegrass for cutting and grazing

- Top yield potential for both Autumn and Spring production
- Excellent potential for grazing and Autumn silage after Winter Barley
- Aimed at a duration period of 18 months
- For high protein options see **RAPTOR** and **CRIMSON TIDE** on page 65
- Very vigorous establishment for sowing after maize
- 33% Diploid content for higher dry matter Spring silage
- Better lamb finishing potential than stubble turnips, with assured re-growth

Seed Rate: 30 - 37kg/ha (12.5 - 15kg/acre)

18
Months
Duration

“
**SERIOUSLY
FAST
GRASS!**





Rapier



Enormous silage production for 2 years

- Rapid establishment for early utilisation
- Very early in Spring with massive first cut
- Exceptional yields of silage boosted by the varieties **HUNTER** and **CAZZANO**
- High sugar content for optimum fermentation
- Good overall disease resistance

29%

ALAMO

Italian Ryegrass

21%

HUNTER

Italian Ryegrass (Tet)

29%

CAZZANO

Italian Ryegrass (Tet)

21%

FOX

Italian Ryegrass

100%

Packed and supplied in 20kg bags
Seed Rate: 32 - 37kg/ha (13 - 15kg/acre)

Rapier Hi-Pro

TIP

With any ley remember to set your mower cutting height to leave 4 inch stubble where possible.

DON'T SCALP IT!

This will help to prolong the life of the sward.



INCLUDES
20%
RED CLOVER
BLEND



OPTIONAL
VARIANTS
AVAILABLE





Sabre



Top performing silage mix for up to 3 years duration

- **SENDERO** for excellent spring growth
- **TETRAGRAZE** and **ASTONCRUSADER** for yield, quality and persistence
- **PERSEUS** festulolium for improved leaf retention and stress survival whilst still offering high yield and quality
- Excellent Spring growth for either grazing or exceptional first cut yield
- Formula improves drought tolerance and sward density so excellent for adverse sites
- Good all round disease resistance

20%

ALAMO
Italian Ryegrass

20%

SENDERO NEW
Italian Ryegrass

20%

ASTONCRUSADER
Hybrid Ryegrass (Tet)

20%

TETRAGRAZE
Hybrid Ryegrass (Tet)

20%

PERSEUS
Festulolium



100%

Packed and supplied in 20kg bags
Seed Rate: 32 - 37kg/ha (13 - 15kg/acre)

Sabre Hi-Pro

Very popular version of the Sabre mix that includes our Red Clover Blend for 3 years of outstanding yields

- Enhances yield, protein and mineral levels
- Aids drought tolerance and soil aeration
- The Clover plants fix nitrogen to fertilise companion grasses and subsequent crops
- Trials show a yield advantage of 1 tonne of DM/ha in the second harvest year compared to no Clover version



OPTIONAL VARIANTS AVAILABLE



 =  **PLUS**
Festulolium by RL



Watch the harvesting of Sabre in action



www.bit.ly/OS-Sabre



Medium - Long Term Leys

This category features leys maybe capable of long term performance, but rotation may mean that they are only required for up to 5 years.

Broadsword

Best selling mix for up to 4 years duration based on Hybrid and Perennial Ryegrass for outstanding performance

- Hybrids combine Italian yield and sugar content with Perennial persistence and quality
- Very high 'D' value and palatability
- Very vigorous establishment for later sowing
- Impressive disease resistance
- Excellent hardiness and drought tolerance
- Excellent silage yields combined with good sward density for grazing

17%

TETRAGRAZE
Hybrid Ryegrass (Tet)

16%

ASTONCRUSADER
Hybrid Ryegrass (Tet)

17%

PERSEUS
Festulolium



28%

BOYNE
Intermediate Perennial Ryegrass

22%

NOLWEN
Intermediate Perennial Ryegrass (Tet)

100%

Packed and supplied in 20kg bags
Seed Rate: 32 - 37kg/ha (13 - 15kg/acre)



OPTIONAL
VARIANTS
AVAILABLE



+7%
White Clover
Cutting Blend

= Ryegrass **PLUS**
Established by B.V.



Broadsword Hi-Pro



Red and White Clover option to add flexibility

- Erect, disease resistant and vigorous grasses to compete with Clover
- Very adaptable and denser than Sabre to enhance grazing performance
- High sugar levels to aid silage fermentation and palatability
- Enhanced protein levels and drought resistance for adverse sites
- Trials show a yield advantage of up to 2 tonnes of DM/ha in the second harvest year compared to no Clover version

13%

TETRAGRAZE
Hybrid Ryegrass (Tet)

13%

ASTONCRUSADER
Hybrid Ryegrass (Tet)

13%

PERSEUS
Festulolium



20%

BOYNE
Intermediate Perennial Ryegrass

16%

NOLWEN
Intermediate Perennial Ryegrass (Tet)

5%

BRIANNA
Very Large Leaf White Clover

20%

Red Clover Blend

100%

Packed and supplied in 20kg bags
Seed Rate: 30 - 35kg/ha (12 - 14kg/acre)

TRIALS
HAVE SHOWN
UP TO
**2T/HA YIELD
INCREASE**
IN 2ND YEAR



 = Ryegrass **PLUS**
Festulolium by RLF



Javelin

Incredibly adaptable medium term sward specifically aimed at meeting the requirements of beef and sheep farms

- Outstanding Spring growth for early utilisation
- Flexible, with first rate cutting and grazing characteristics
- Exceptionally high yields when taken for hay or silage
- Good Winter hardiness and persistence for use in marginal areas
- Extremely palatable with high summer production

18%

GENESIS

Early Perennial Ryegrass

18%

NIFTY

Intermediate Perennial Ryegrass



18%

NOLWEN

Intermediate Perennial Ryegrass (Tet)

18%

THEGN

Late Perennial Ryegrass (Tet)



19%

HOPI NEW

Late Perennial Ryegrass (Tet)

4%

WINNETOU

Timothy

5%

Dual Purpose White Clover Blend

100%

Packed and supplied in 20kg bags
Seed Rate: 30 - 37kg/ha (12 - 15kg/acre)



OPTIONAL
VARIANTS
AVAILABLE








Megabite

High quality grazing mixture designed for intensive cattle systems

- A high proportion of Diploids, with top disease resistance and Clover gives excellent palatability and intake characteristics
- Persistent, late heading Ryegrasses provide a very good sward structure
- Formulated for full season production with good drought tolerance to boost Summer output
- Surplus production makes excellent silage
- Exceptionally high performance from the new late grasses **WETHERBY** and **BOWIE** for maximum conversion into meat or milk
- Optimum Grass/White Clover performance
- Contains Birdsfoot Trefoil, a perennial legume adapted to a wide range of soil conditions. It contains tannins, which enhance nutrition, reduce the risk of bloat and can help reduce the worm burden in animals

OPTIONAL
VARIANTS
AVAILABLE



16%	ABERGREEN Intermediate Perennial Ryegrass
16%	WETHERBY <small>NEW</small> Late Perennial Ryegrass
16%	BOWIE <small>NEW</small>  Late Perennial Ryegrass
20%	NASHOTA  Late Perennial Ryegrass (Tet)
20%	THEGN  Late Perennial Ryegrass (Tet)
5%	WINNETOU Timothy
5%	Dual Purpose White Clover Blend
2%	Birdsfoot Trefoil
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)





Claymore

An adaptable mixture aimed at long term cutting that produces exceptional yields of quality forage

- Varieties selected for top conservation yield
- Good Spring growth with relatively late heading date
- Good disease resistance and high sugar varieties for reliable fermentation
- Exceptional performance under intensive management
- Good hardiness and persistence
- Also produced excellent results in Oliver Seeds grazing trials, enhanced by top Clover varieties



20%	BOYNE Intermediate Perennial Ryegrass
16%	SEAGOE Intermediate Perennial Ryegrass (Tet)
16%	NOLWEN Intermediate Perennial Ryegrass (Tet)
19%	ZORGUE <small>NEW</small> Late Perennial Ryegrass
20%	NASHOTA Late Perennial Ryegrass (Tet)
4%	WINNETOU Timothy
5%	Cutting White Clover Blend
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)



OPTIONAL
VARIANTS
AVAILABLE



TIP

Allow 6 leaves on
Plantain before
first graze

Claymore Ecotain®



Mixture designed to
provide season long
growth of feed high in
protein, the inclusion
of Ecotain® delivers
environmental benefits
by reducing leaching of N

- Plantain brings stress tolerance
- Includes Ecotain® for is environmental benefits
- Sward recovers quickly
- Ecotain® helps to reduce N leaching
- High legume inclusion for N fixing and livestock performance

14%	BOYNE Intermediate Perennial Ryegrass
15%	SEAGOE Intermediate Perennial Ryegrass (Tet)
10%	CONVEY Intermediate Perennial Ryegrass (Tet)
14%	ZORGUE Late Perennial Ryegrass
20%	NASHOTA Late Perennial Ryegrass (Tet)
4%	WINNETOU Timothy
4%	ECOTAIN® Plantain
3%	Cutting Clover Blend
16%	Red Clover Blend
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)






Fortress



Probably the best long term cutting and grazing mixture available

- Contains a high percentage of leading late heading Perennial Ryegrasses for ease of management
- Combines yield and quality with hardiness and a very dense sward
- High degree of adaptability and includes the advanced new Festulolium **FOJTAN** for enhanced durability
- Relatively high dry matter for less silage effluent and easier hay making
- Tolerates high water tables and occasional flooding

12%	NIFTY Intermediate Perennial Ryegrass	✓
15%	CONVEY Intermediate Perennial Ryegrass (Tet)	✓
12%	BOWIE <small>NEW</small> Late Perennial Ryegrass	✓
12%	ZORGUE <small>NEW</small> Late Perennial Ryegrass	✓
17%	NASHOTA Late Perennial Ryegrass (Tet)	✓
19%	FOJTAN Festulolium	✓ 
7%	WINNETOU Timothy	
6%	Dual Purpose White Clover Blend	
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)	



OPTIONAL
VARIANTS
AVAILABLE



+2%
Forage
Rape





Century



The ultimate in palatability and endurance from a grazing mixture for all classes of ruminant livestock

- Based upon late heading grasses only producing a very dense, hard wearing sward
- Excellent 'D' values and palatability for optimum intake and performance enhanced by the new varieties **ZORGUE**, **BOWIE** and **WETHERBY**
- Consistent production throughout the season
- Surplus growth makes excellent silage
- Top persistence and hardiness for many years reliable output

17%	ZORGUE <small>NEW</small> Late Perennial Ryegrass	🟢
16%	BOWIE <small>NEW</small> Late Perennial Ryegrass	🟢
16%	WETHERBY <small>NEW</small> Late Perennial Ryegrass	
20%	NASHOTA Late Perennial Ryegrass (Tet)	🟢
17%	THEGN Late Perennial Ryegrass (Tet)	🟢
7%	WINNETOU Timothy	
7%	Grazing White Clover Blend	
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)	



ALL
LATE HEADING
GRASSES



OPTIONAL
VARIANTS
AVAILABLE



+2%
Forage
Rape





Celt



Proven long term mixture primarily designed for grazing but with excellent potential for hay or silage production

- Grasses selected for persistency and sustained long term performance
- Adaptable mixture that is flexible enough to suit all classes of ruminant livestock or management regime
- Very high yield potential of high quality forage
- Exceptional Winter hardiness and forage quality
- Increased Timothy to enhance palatability and suitability for heavier soils and higher altitudes

19%	AGASKA Intermediate Perennial Ryegrass
15%	TRIWARWIC Intermediate Perennial Ryegrass (Tet)
16%	CANCAN Late Perennial Ryegrass
17%	HOPI <small>NEW</small> Late Perennial Ryegrass (Tet)
18%	THEGN Late Perennial Ryegrass (Tet)
10%	WINNETOU Timothy
5%	Dual Purpose Clover Blend
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)

**EXTRA
TIMOTHY
INCLUDED**
for Palatability,
early growth and
ground cover



OPTIONAL
VARIANTS
AVAILABLE

+2%
Forage
Rape



Celt sown at 1200ft above sea level

Landmark Leys for diverse situations

It is important to consider what will grow, perform and persist on adverse sites.

Sometimes ryegrass alone will be unable to meet the needs of the farm and the animals so something else is required. Our Landmark range makes use of the excellent properties found within other species and we are pleased that the following leys have proved so useful to our customers.

Pros and Cons of a Ryegrass Ley v Multi-Species Sward

Ryegrass Ley		Multi-Species Sward	
PROS	CONS	PROS	CONS
Productive and nutritious	Demanding of nitrogen and moisture	Enhanced stress tolerance. Persistent	Slower to establish
Fast establishment. Vigorous growth	Relatively shallow rooting	Greater root mass and depth	Lower yield potential and quality
Responsive to nitrogen fertiliser	Not as stress tolerant as some species	Earlier spring/late autumn growth	Not as responsive to fertiliser
High yielding in first two years	Less trace element/mineral profile than some other grasses	Palatable	Difficult to control weeds chemically
	Susceptible to Frit Fly attack	Good trace element/mineral profile	
		Can have anthelmintic properties	

Landmark Spectrum (GS4)

Where there is a desire for a wider nutritional profile from herbage, it makes sense to extract these nutrients from a broader range of plants so we have formulated the Landmark Spectrum mix to cater for this.

BEST SELLER

TIP

Analyse soil ahead of sowing to give seeds best opportunity.



Discover more about eligibility and requirements for the legume and herb-rich swards option.

www.bit.ly/GS4info



10%	DONATA Soft Leaf Cocksfoot
6%	WINNETOU Timothy
3%	ERMO Alsike Clover
12%	SAINFOIN
4%	ECOTAIN® <small>NEW</small> Plantain
7%	AMOS Red Clover
3%	Sheeps Burnet
3%	IONA White Clover
2%	Crimson Clover
6%	LAURA Meadow Fescue
3%	ALTASWEDE Late Red Clover
1%	Birdsfoot Trefoil
4%	CHOICE Chicory
9%	LUZELLE Lucerne
1%	Yarrow
3%	Sheeps Parsley
9%	LOFA Festulolium
14%	THEGN Late Perennial Ryegrass (Tet)
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)





Landmark Extreme



Highly productive and persistent mixture for cutting and grazing on adverse sites

- This diverse range of species persists and performs on adverse sites. It can be cut or grazed
- Good mid-season potential from all species
- Ryegrass chosen for good rust resistance and persistence
- Contains **DONATA** Cocksfoot, a soft leaved variety that offers persistence and is more palatable than some leading Perennial Ryegrass varieties
- Now includes **FOJTAN** Festulolium. This new species is very stress tolerant and combines excellent yield with palatability and disease resistance



STRESS TOLERANCE



18%	FOJTAN Festulolium	
22%	THEGN Late Perennial Ryegrass (Tet)	
29%	DONATA Soft Leaf Cocksfoot	
17%	LAURA Meadow Fescue	
7%	WINNETOU Timothy	
5%	Dual Purpose White Clover Blend	
2%	Birdsfoot Trefoil	
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)	





Landmark Permanent

A highly adaptable mix offering a wider nutritional base from the species used

- Traditional broad-spectrum meadow mix for medium to heavy soil types
- Designed for low input systems
- Optimum stock health from species range
- Can be used for either cutting or grazing and is very hardy and persistent
- High dry matter allows for faster haymaking than modern mixtures
- Reliable production for many years
- Contains Alsike Clover, a naturally occurring Perennial Clover similar to a medium leaved White Clover, but with a pink/purple flower. It is faster to establish than many White Clovers, but less persistent

14%	CANCAN Late Perennial Ryegrass	●
14%	TODDINGTON Late Perennial Ryegrass	
21%	THEGN Late Perennial Ryegrass (Tet)	●
11%	WINNETOU Timothy	
14%	LAURA Meadow Fescue	
8%	MAXIMA 1 Strong Creeping Red Fescue	
9%	Smooth Stalked Meadow Grass	
5.5%	Grazing White Clover Blend	
1%	ERMO Alsike Clover	
1%	Birdsfoot Trefoil	
1.5%	Mixed Herbs	
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)	



Hay & Haylage

The requirements of this sector can be somewhat different from other livestock situations hence the seed mixture formulation needs careful assembly.



Meadow Hay Mixture

Specialist mix for producing top quality hay

- Includes a small proportion of Sweet Vernal grass for sweet smelling hay
- Good early Spring growth for early grazing if required
- Potential for high yields of top quality hay
- High dry matter varieties for fast drying of hay crops
- Broad range of species for optimum nutrition
- Good sward density for extended grazing season
- Can easily be used as a grazing paddock if hay is not required

30%	TODDINGTON Late Perennial Ryegrass
22%	CAVENDISH Late Perennial Ryegrass
14.5%	WINNETOU Timothy
30%	LAURA Meadow Fescue
3.1%	Crested Dogtail
0.4%	Sweet Vernal Grass
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 40kg/ha (13 - 16kg/acre)



Haylage Mixture

A carefully designed formula to meet the needs of this expanding market

- High percentage of diploids for rapid drying
- High fibre content for a balanced diet
- Top yielding varieties for maximum output
- Will last for 3 to 4 years
- Easily adapted for aftermath grazing
- PERSEUS, LOFA and FOJTAN** are all Festuloliums that offer outstanding annual yield of dry matter with reduced moisture content. Leaf yield and leaf retention is particularly good as is survival under extreme weather conditions

21%	TETRAGRAZE Hybrid Ryegrass (Tet)
15%	LOFA Festulolium
20%	PERSEUS Festulolium
15%	FOJTAN Festulolium
29%	BOYNE Intermediate Perennial Ryegrass
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 37kg/ha (13 - 15kg/acre)



Overseeding

There is great interest in using specific mixtures to overseed pasture in order to boost production.

This avoids the cost of conventional cultivation and re-seeding and is an excellent solution where shallow soils or stony conditions prevent traditional sowing.

Oliver Seeds publish guidelines on several methods available for your use; copies of these guidelines are available on request.

Please enquire for your
OVERSEEDING GUIDELINES
enquiries@oliver-seeds.co.uk

Large seeded, aggressive species are essential for overseeding to succeed.

Oliver Seeds have a range of mixtures suitable to cover all situations, but there is a new dedicated mix specifically formulated for maximum effect...

TYPHOON

Typhoon Overseeding Mixture

Ideal for surface or slot seeding, the components involved are primarily Hybrid and Tetraploid Ryegrasses to facilitate rapid establishment and accelerated growth.

- Dedicated mix for specific purpose
- Cost effective and productive
- Sow at 7 – 10kgs per acre

20%	ASTONCRUSADER Hybrid Ryegrass (Tet)
20%	TETRAGRAZE Hybrid Ryegrass (Tet)
20%	PERSEUS Festulolium 
20%	NOLWEN Intermediate Perennial Ryegrass (Tet)
20%	AGASKA Intermediate Perennial Ryegrass (Tet)
100%	Packed and supplied in 20kg bags Seed Rate: 18 - 25kg/ha (7 - 10kg/acre)

OPTIONAL
VARIANTS
AVAILABLE



+12%
Dual Purpose
White Clover

 = Ryegrass **PLUS**
Established by RL

ProNitro®

READY TO GROW

ProNitro® is coated directly onto the seeds, the germinating and developing seedling receives the full benefit of the additional nutrition, not the surrounding plants.

The roots and shoots grow rapidly developing strong, vigorous plants. This is particularly important when overseeding into a competitive sward.

ProNitro® is a nitrogen seed coating with hydroactive technology to improve water distribution and absorption that enhances germination and reduces plant stress.



GrassMax™ ProNitro® No Clover



- Targeted nitrogen
- Improved establishment
- Heavier seeds ideal for over seeding
- Encourages early root growth

Watch the ProNitro® Hydroactive Water Management Technology Video



www.bit.ly/ProNitroHWM

35%	NOLWEN Intermediate Perennial Ryegrass (Tet)
35%	TRIWARWIC Intermediate Perennial Ryegrass (Tet)
30%	THEGN Late Perennial Ryegrass (Tet)
100%	Packed and supplied in 20kg bags Seed Rate: 25 - 37kg/ha (10 - 15kg/acre)

GrassMax™ ProNitro® With Clover

INCLUDES
10%
WHITE CLOVER
BLEND



30%	NOLWEN Intermediate Perennial Ryegrass (Tet)
30%	TRIWARWIC Intermediate Perennial Ryegrass (Tet)
30%	THEGN Late Perennial Ryegrass (Tet)
10%	Dual Purpose White Clover Blend
100%	Packed and supplied in 20kg bags Seed Rate: 25 - 37kg/ha (10 - 15kg/acre)

White Clover is high in protein and potentially reduce fertiliser inputs, but always inspect the percentage of clover in your fields before overseeding a mix with clover.

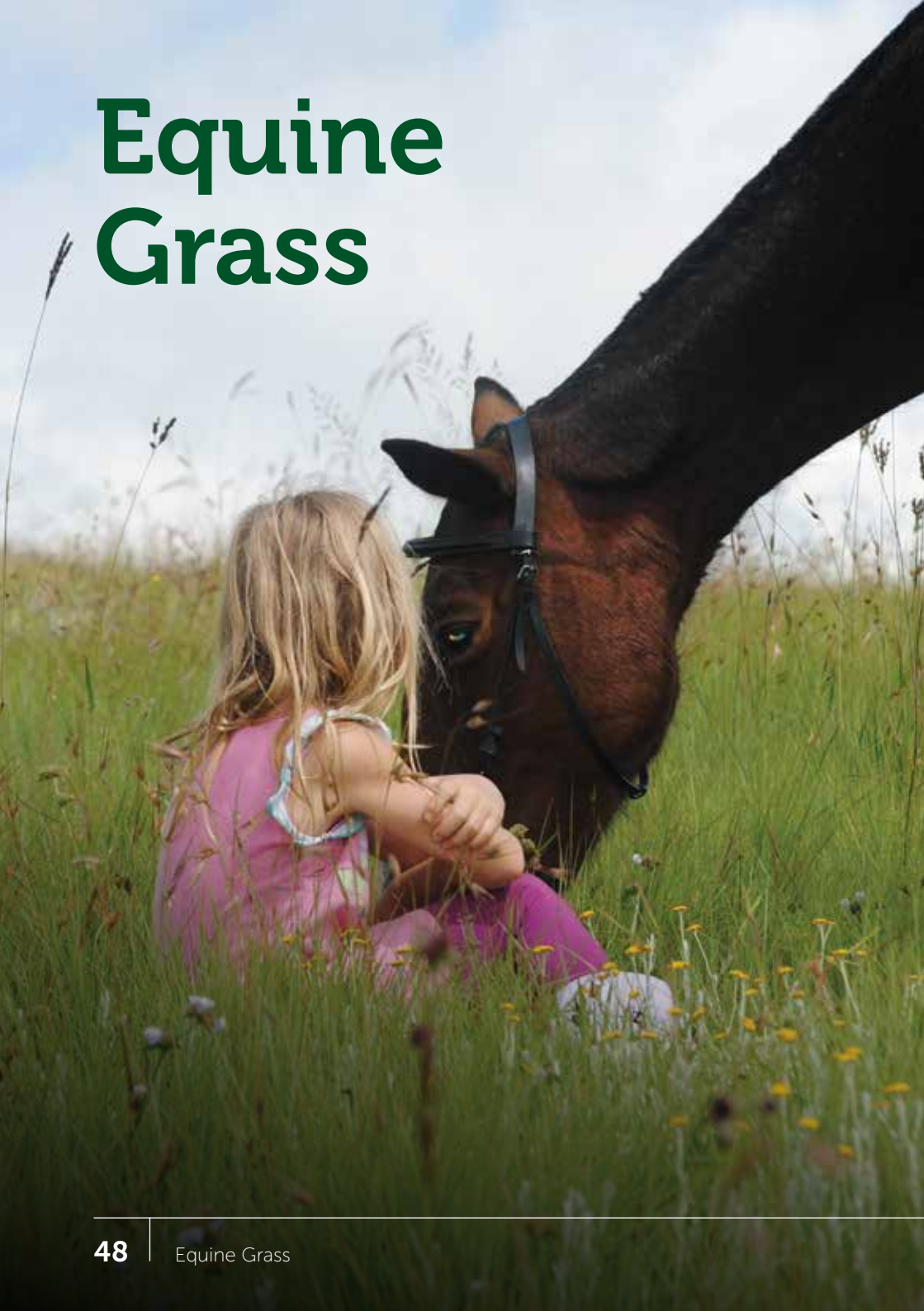
Please enquire for overseeding guidelines

GrassMax™

ProNitro®
READY TO GROW



Equine Grass



Paddock Mix

High quality grazing and exercise paddock mixture for re-seeding or oversowing

- Formulated for easier management and improved mid season cover
- Hard wearing dense sward enhanced by Timothy and Red Fescue
- Steady production throughout the growing season
- The wide range of species ensures a good nutritional balance
- Surplus growth can make excellent hay
- Available with herbal mixture for enhanced nutrition



30%	CALVANO <small>NEW</small> Intermediate Perennial Ryegrass
30%	TODDINGTON Late Perennial Ryegrass
12%	WINNETOU Timothy
14%	MAXIMA 1 Strong Creeping Red Fescue
14%	Smooth Stalked Meadow Grass
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 50kg/ha (13 - 20kg/acre)

Horse Herb Grazing Mix

Specialist mixture that provides a diverse nutritional base to enhance palatability and grazing interest

- Produces exceptionally dense, easily maintained sward
- Steady production through the growing season
- Contains Meadow Grass and Crested Dogtail for extreme wet and dry conditions
- Herbs for increased mineral uptake and balanced diet
- Creeping Red Fescue to infill, repair and bind the sward for greater durability
- Palatable but easily grazed grasses preferred by horses

24%	EVOCATIVE <small>NEW</small> Late Perennial Ryegrass
13%	LAURA Meadow Fescue
10%	DONATA Soft Leaf Cocksfoot
3%	WINNETOU Timothy
3%	TINO Small Leaved Timothy
17%	MAXIMA Strong Creeping Red Fescue
10%	Crested Dogtail
7%	Smooth Stalked Meadow Grass
7%	Rough Stalked Meadow Grass
3%	Creeping Bent
1%	Rivendel White Clover
2%	Mixed Herbs
100%	Packed and supplied in 20kg bags Seed Rate: 32 - 52kg/ha (13 - 21kg/acre)

Lucerne



Lucerne is a deep rooted, perennial legume, ideally suited to light, free draining soils with a pH of 7. The plants usually have a protein content of around 18% and their higher fibre levels complement items like maize silage in a ration. Lucerne has a very good yield potential of 13 tonnes of dry matter/ha/year over the first 2 years.

The crop is usually sown between April and August at a depth of 1cm and a rate of 8-10 kilos per acre. The thicker the sowing rate, the thinner the stems.

Lucerne is usually treated as a 5 year conservation crop and cut 3-4 times. It is important to leave a minimum 10cm stubble to speed regrowth and not scalp the plant.



FADO – Exciting new variety demonstrating excellent anthracnose, eelworm and verticillium resistance coupled with very high yields.

SALSA – The best eelworm resistance available without sacrificing yield. This variety has thin stems but still good standing power.

LUZELLE – Specialist variety with a deeply placed root collar to withstand rotational grazing as used in the **Landmark Lucerne & Grass Mixture** on page 41.

All the above have a dormancy rating of 3-4 so are especially suited to Northern climates and/or Winter weed control.

CAUTION: Lucernes can cause 'bloat' to livestock.

Full lucerne growers guidelines are available on request enquiries@oliver-seeds.co.uk

White Clover

These can be small, medium or large in leaf size. White Clover is stoloniferous so has the ability to spread through a sward and is capable of long term, sustained performance. Protein levels are similar to Red Clover but annual yields are lower and there is no risk over oestrogen.

SMALL LEAVED

are best for intensive sheep grazing due to their creeping growth habit and extreme persistence. They are also useful fertility aids to companion crops as they do not have excess biomass or a tendency to take over. Galway is a particularly good small leaved White Clover.

MEDIUM LEAVED

are useful for either cutting or grazing and are a mainstay in grazing mixtures. Iona and Buddy are leading varieties in this segment.

LARGE LEAVED

types are higher yielding so are suitable for cutting and cattle grazing leys. Usually, these types are less hardy and persistent but Violin White Clover has incredibly good persistence, yield and performance and so features strongly in our White clover blends.

Seed Rate: 5 - 7kg/ha (2 - 3kg/acre)

Mixtures of Clover varieties have been developed which satisfy the varying needs of the grower.

Oliver Seeds promote three WHITE CLOVER BLENDS...

CUTTING BLEND – A large leaved Clover blend chosen to compete with Perennial Ryegrass in fast growing swards receiving limited nitrogen. Ideal for cutting and cattle grazing regimes.

DUAL PURPOSE BLEND – A combination of large, medium and small cultivars that will adapt under dual purpose management to provide high protein and mineral rich forage under either sheep or cattle grazing.

GRAZING BLEND – As the name implies, the focus is on small and medium leaved Clovers to excel under intensive livestock regimes especially sheep grazing.

Red Clover

This is usually used in 3 year leys where it's yields over that period can average out at 13 tonnes of dry matter per hectare. Red Clover is assailed by eelworm and Sclerotinia (Clover Rot) so we select varieties that are more tolerant of these ailments and look to the benefit of a blend of top varieties for optimum performance.

Red Clover varies from 16-18% protein, so is fantastic for fattening animals, but oestrogen levels mean care needs to be taken when grazing livestock where fertility is paramount. A long, penetrating tap root offers excellent drought tolerance, recovery of deeper soil minerals and nutrients and is an excellent soil conditioner.

MAGELLAN – Excellent performance especially in the second harvest year with high protein content and persistency.

AMOS – An incredibly vigorous variety with excellent all round performance of yield, persistency and protein content.

SANGRIA – Excellent yields particularly in the spring coupled with good disease resistance and persistence.

Seed Rate: 10 - 15kg/ha
(4 - 6kg/acre)



...and one RED CLOVER BLEND

RED CLOVER BLEND –

This is a very high yielding, high protein blend that is very vigorous in establishment and growth.

Very good persistency and eelworm resistance ensure maximum output where RED CLOVER BLEND is used in short to medium term leys.

CAUTION: Clovers can cause 'bloat' to livestock.

Legumes

We have a range of legumes to help fix nitrogen naturally, improve soil structure and fertility, enhance protein and mineral levels in your forage crops. Legumes also increases biodiversity by attracting an abundance of insects and invertebrates, especially pollinators.

ALSIKE CLOVER

A short-lived perennial will last for 2–3 years. It tolerates cold, wet and infertile sites. Performs less in warmer climates. It has an upright growth habit with many fine stems from basal crown. It has a branch taproot, but no rhizomes or stolon's, so does not spread vegetatively. Nutritional value is similar to red clover. Can be grazed, cut for silage or hay. It can cause bloat like red and white clover and may cause photosensitization in horses.

Seed Rate: 5 - 7kg/ha (2 - 3kg/acre)

BERSEEM CLOVER

Also referred to as Egyptian clover, this is an annual species capable of explosive growth to produce large biomass very quickly. The larger mass offers greater nitrogen production and return to the soil. The species has no frost tolerance and the large, fleshy plants produced degrade rapidly for ease of incorporation. It's has a taproot with a fibrous root network which likes deep fertile soils and enough moisture. A good cover crop to put between two cereal crops or as a companion crop for oil seed rape, brassicas and root crops.

Seed rate: 15 - 22kg/ha (6 - 9kg/acre)

CRIMSON CLOVER

An annual clover that establishes quickly to aid weed suppression and has a wonderful network of tap and fibrous branch roots. The species does have over wintering capabilities in milder parts of the country and the biomass produced degrades rapidly back into the soil profile. It prefers loam soils, but will tolerate poor soils as long as alkaline and free draining. Mainly used as fodder with short term grass for grazing or silage and also as a green manure crop to improve soil fertility.

Seed rate: 12 - 15kg/ha (5 - 6kg/acre)

PERSIAN CLOVER

An annual clover with prostrate or semi-erect growth habit to 60 cm (24 in) tall. It forms a dense sward and has a rosette growth habit. Its high in protein producing highly palatable and nutritious forage with excellent regrowth following grazing or cutting. Mostly used in mixtures with annual ryegrass or annual legumes. A great advantage is that it has good tolerance of waterlogging and prefers soils with a high clay content.

Seed Rate: 7 - 10kg/ha (3 - 4kg/acre)

CAUTION: Some Legumes can cause 'bloat' to livestock.



YELLOW BLOSSOM CLOVER

Also referred to as Sweet Clover, is a biennial plant which can persist for several years due to its self-regenerating properties and grow up to 2 meters tall. It will establish quickly and grow vigorously. It can thrive in the poorest of soils and being leguminous and deep rooting it is invaluable for improving soil structure and fertility, but does prefer dry sites. It's generally used in mixtures that last 2 - 3 years, this could be for diverse mixtures, green manure cover crops and game cover crops.

Seed rate: 6kg/ha (2.5kg/acre)

VETCHES

This fast growing, scrambling, annual legume has excellent weed suppressing characteristics. It has a deep taproot and prefers loam and clay soils with good fertility levels. Vetches are more tolerant of water logging than most legumes. Mainly used in arable silage mixtures with cereals and peas or as a green manure crop, but can also be mixed with short-term grass and other annual legumes. Due to its large seed size, it will establish later than most other legumes.

Seed rate: 60 - 120kg/ha (25 - 50kg/acre)

SAINFOIN +

Sainfoin acts as a natural anthelmintic and the condensed tannins this legume contains helps to aid protein absorption, thus improving feed conversion efficiency by livestock. Unlike other species, Sainfoin will not cause bloat in livestock. It can also help reduce the worm burden in animals. Best suited to light soils, the deep rooting system of Sainfoin provides a drought resistant forage that requires no nitrogen fertiliser and little phosphate. This legume prefers alkaline soils and although slow to establish, it is a persistent species.

Seed rate: 65 - 100 kg/ha (25 - 40 kg/acre)

BIRDSFOOT TREFOIL +

An anthelmintic legume, which like Sainfoin will not cause bloat in livestock and contains tannins to support the absorption of protein by both sheep and cattle. It can also help reduce the worm burden in animals. Birdsfoot Trefoil is continually included in diverse mixtures owing to its contribution of beneficial properties both above and below the soil surface to help boost soil fertility. It can persist for 3 - 5 years, but compared to Sainfoin and Lucerne it can tolerate lower pH and wetter sites.

Seed rate: 10 - 12.5kg/ha (4 - 5kg/acre)

+ = ANTHELMINTIC. Improves Animal Health

Forage Maize

Perez KWS

Gain Higher Yields Faster!

PEREZ KWS sets new standards in the very early maturity segment of the forage maize market combining superb yields with excellent forage quality.

PEREZ KWS has excellent early vigour making it ideal for sowing on less favourable sites or simply where a fast start is desired.

Very early maturity and excellent vigour offers flexibility with drilling date and harvest timing on favourable sites allowing for timely establishment of a following crop.

- Excellent early vigour
- High dry matter yields of starch and ME
- Very early maturity for flexible drilling or harvesting dates
- Good standing power
- DM Yield 17.19 to 17.57 t DM/Ha
- Starch Yield 5.85 to 6.08 t/Ha
- ME Yield 199,000 to 205,900 MJ/Ha

Debalto NEW

NEW on the BSPB/NIAB Descriptive List 2023

Push your starch yield...
Keep your harvest on track!

Excellent vigour combined with strong dry matter yield and high grain quality

 youtu.be/jUcUHu-cqjl

Ability

On the BSPB/NIAB Descriptive List 2023

ABILITY combines an early maturity with outstanding yields of dry matter, energy and starch.

The challenging weather conditions in recent seasons have highlighted the importance of good early vigour, especially at less favourable sites, ABILITY scores 7.6 for this important character.

- Very high DM yields
- Early maturity
- Excellent early vigour
- Superb standing power
- DM Yield 18.30 to 18.91 t DM/Ha
- Starch Yield 5.59 to 5.93 t/Ha
- ME Yield 210,730 to 220,600 MJ/Ha

Undersown Maize

The under sowing of maize is recognised as offering many benefits, and to this end Oliver's have undertaken work to evaluate this and can offer advice around mixtures and importantly establishment techniques.

Benefits of undersowing:

- Nutrient capture
- Ground cover
- Reduced run off
- Possibility of late / early graze
- Improved traveling at harvest

OLIVER SEEDS HAVE
A FULL PORTFOLIO OF VARIETIES
THAT ARE SUCCESSFULLY USED FOR
UNDERSOWING MAIZE

so please enquire to discuss the best options open to you.

Call 01506 894822 or email enquiries@oliver-seeds.co.uk

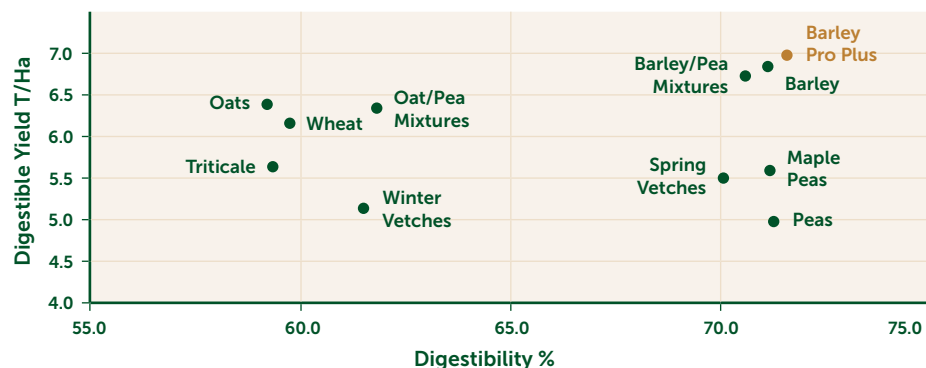
Wholecrop Forage Mixtures

Oliver Seeds have carried out extensive trials on various aspects of wholecrop mixtures and the results make for some fascinating reading.

A summary is outlined below and full details can be obtained from your Oliver Seeds field staff.

Wholecrop Guidelines Available
Please enquire

Chart 1: Digestible Yield Relative to "D" value of Wholecrop Species

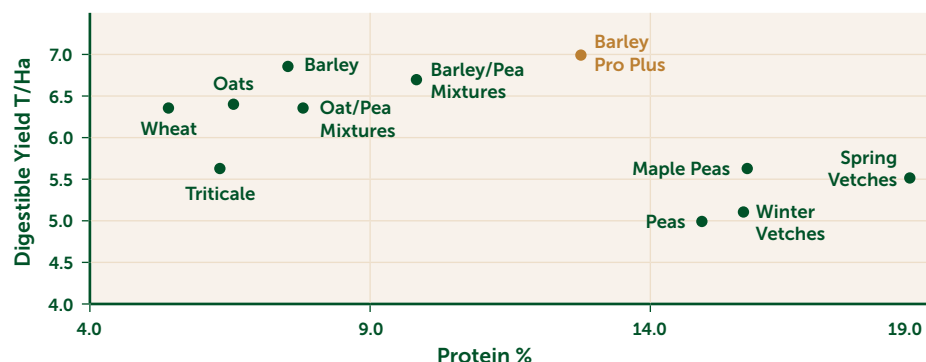


Energy density and protein are crucial factors in deciding what you need. Barley was the top performing cereal at 6.8 tonnes of dry matter per hectare in our trials.

Peas and Vetches play a huge part in supplying protein for home grown rations. Not only do the pulses supply protein but also have a very high "D" value ensuring maximum feed value.

Of the Peas, the tannin rich Maples established quickly and were very vigorous, yielding approximately 1 tonne more dry matter per hectare than the blue and white Combining Peas in the trial.

Chart 2: Digestible Yield Relative to Protein Content of Wholecrop Species



Pea & Barley No.1

Outstanding performance for protein content feed value.

The open nature of the cover crop allows undersown grass to thrive and provide a significant yield of dry matter to bolster the yield from the wholecrop components. If Clover is required in the grass sward, this is probably better introduced in the Spring or after first cut silage.

- 17-22 tonnes/hectare of very high protein silage in about 14 weeks
- Allows undersown grass to thrive
- Good standing power
- Dedicated seed rate to enhance starch and protein
- Good tannin levels to improve the level of bypass protein

Oliver Seeds™
Organic
option available

66%	PEAS
34%	SPRING BARLEY
100%	Packed and supplied in 250 or 500kg bags Seed Rate: 160kg/ha (65kg/acre)

Increase seed rate if sown after mid April or seed bed conditions are difficult. Reduce seed rate by 15% if undersowing with grass or sowing in high fertility sites.

Barley Pro Plus No.2

The combination of semi leafless Maple Peas, Combining Peas, Spring Vetch and Barley provides for the highest nutrient density available.

The mix has excellent lodging resistance, very good disease resistance and matures at the same time for harvest purposes.

- 22-24 tonnes/hectare of high protein silage in about 14 weeks
- Allows undersown grass to thrive
- Excellent standing power for high dry matter
- Highest digestible yield per hectare proven in trials
- Good tannin levels to improve the level of bypass protein



Oliver Seeds™
Organic
option available

10%	SPRING VETCH
20%	PEAS
20%	MAPLE PEAS
50%	SPRING BARLEY
100%	Packed and supplied in 250 or 500kg bags Seed Rate: 173kg/ha (70kg/acre)

Increase seed rate if sown after mid April to 185kg/ha (75kg/acre). Reduce seed rate by 10% if undersowing with grass or sowing in high fertility sites.

ALSO AVAILABLE

Oat Pro Plus No.3

A mix of Oats, Barley & Peas
Please enquire for more information.

Oliver Seeds™
Organic
option available

Forage Root Crops Selector



Yield/Acre Dry Matter (Fresh)	Mj/kg Dry Matter	Sowing Period	Usage Period	Seed Rate			Graded Seed Size
				Broadcast kg/acre	Drill kg/acre	Precision kg/acre or Seed No/acre	
Fodder Beet							
5.5 (35)	12.5	Mar - May	Oct - May	-	-	50,000 seeds	Q-U
Swede							
2.5 (25)	12.5	May - Jun	Oct - Mar	1.0 to 2.0	1.0 to 1.5	0.15 to 0.35	H
Turnip							
2.0 (25)	11.2	May - Jul	Oct- Jan	1.0 to 2.0	1.0 to 1.5	-	-
Autumn/Winter Kale							
3.5 (24)	11.0	May - Jun	Sept - Feb	1.0 to 2.0	1.0 to 1.5	-	-
Summer Rape/Winfred							
2.0 (20)	10.5	Apr - May	June - Jul	1.5 to 2.5	1.0 to 2.0	-	-
Stubble Turnip							
1.8 (18)	11.2	Apr - Aug	June - Jan	1.0 to 2.0	1.0 to 2.0	-	-
Autumn Rape/Winfred							
2.4 (22)	10.5	Jul - Aug	Oct - Feb	1.5 to 2.5	1.0 to 2.0	-	-
Autumn Feed Mixture							
2.4 (22)	10.8	Apr - Aug	Oct - Feb	1.5 to 2.5	1.0 to 2.0	-	-
Winter Feed Mixture							
3.0 (25)	11.0	Jun - Jul	Nov - Feb	1.5 to 2.5	1.0 to 2.0	-	-
Raptor and Rapita							
5.5 (35)	11.5	Mar - Aug	from 8 weeks	8 to 10	8 to 10	-	-
Tornado							
5.5 (35)	11.5	Feb - Nov	1 year	10 to 15	12.5 to 15	-	-
Protector Rye							
5.5 (35)	10.0	Aug - Oct	Feb - May	80	60 - 75	-	-

Forage Crop
Guidelines
Available
Please enquire

**Forage Crop
Guidelines
Available**
Please enquire

Fodder Beet



A full season root crop similar to Sugar Beet. Fodder Beet is capable of producing very heavy yields of highly digestible dry matter and is well suited to the UK climate.

Variety	Monro	Bangor	Delicante	Enermax	Magnum
Clean dry matter yield (% Enermax)	74.8	96.1	104.1	100	103.6
Fresh yield (% Enermax)	99.8	114	114.9	100	99.7
Dry matter content (%)	15.9	18.6	19.1	21.4	22.2
Establishment (9 = good)	7.4	8	7.5	8.1	7.6
Bolting (%)	n/a	0.3	0.1	0	0.1
Top size (9 = large)	n/a	7.7	7.2	6.9	6.5
Root in the ground (%)	48	51	56	72	62
Cleanliness (9 = best)	n/a	7.2	7.2	6.6	6.4
Rust (9 = best)	n/a	7	n/a	6	4
Ramularia (9 = best)	n/a	n/a	n/a	n/a	7
Root colour	Red	Yellow	White	White	White
			NEW		

Swede

A full season root crop. Generally more frost hardy than turnips and with a higher nutritional value but a longer growing period. An excellent crop for finishing lambs.

Variety	Airlie	Gowrie	Kenmore	Marian	Ruta Otofte
Forage	Yes	Yes	Yes	Yes	Yes
Culinary	Yes	Yes		Yes	Yes
Root Shape (9 = Globe 1 = Tankard)	6.0	7.0	5.0	4.0	5.0
Skin Colour	Light Purple	Purple	Bronze	Purple	Dark Purple
Flesh Colour	Creamy White	Yellow	White	Yellow	Cream

Care should be taken when changing an animal's diet from grass to high protein brassicas (especially in Summer). If you are unfamiliar with the utilisation of these crops, we would ask you to read our guidelines on the subject and these are available on request.

Forage Roots & Brassicas

Grüner Angeliter Kale

A very high yielding variety with good winter hardiness and excellent feeding quality with fresh yields 15% higher than Caledonian kale and 10% higher than Bittern in trials. Grüner Angeliter has been the mainstay forage variety of kale in New Zealand for many years and since its introduction to the UK has become equally popular over here. It's high yields make it ideal for utilisation by dairy and beef cattle and as winter feed for sheep.

Astera Kale NEW

A very productive and leafy variety, characterised by its high yields. It is a very winter hardy variety producing high crude protein yields..

Forage Rape

A crop related to Turnip and grown for forage, particularly sheep grazing, during the Autumn and early Winter. The plant produces rapid, succulent, leafy growth, smothering weeds.

Stubble Turnip

A fast growing catch crop usually sown after first cut silage for Summer grazing or after cereals for Autumn use. Can usually be grazed 8 weeks after sowing.

Maincrop Turnip

Later maturing than Stubble Turnips with higher dry matter and better Winter hardiness. Similar to Swedes but with a shorter growing period of 12 to 15 weeks.

Winfred

Semi-dwarf Rape, a cross between Stubble Turnip and Kale producing high protein, leafy forage in 6 to 8 weeks.

- High seedling vigour gives more reliable establishment than Kale
- High leaf to stem ratio and good disease resistance give excellent palatability
- Bolting resistance produces reliable high quality Summer grazing
- Proven palatability in grazing trials
- Better re-growth potential than other varieties
- Better Winter hardiness than Stubble Turnips

STOCKING RATES

Potential stocking rates vary according to the crops grown and the type of livestock employed.

We do publish guidelines to outline potential rates so please enquire for your copy.

enquiries@oliver-seeds.co.uk

Care should be taken when changing an animal's diet from grass to high protein brassicas (especially in Summer). If you are unfamiliar with the utilisation of these crops, we would ask you to read our guidelines on the subject and these are available on request.



BEST SELLER
EXCLUSIVE TO
Oliver Seeds

Sheep Prefer Winfred!

A great result for the specialist Forage Rape "Winfred" was observed in two recent grazing trials which compared Winfred, Swift, Napoleon and Autumn Feed.

Two weeks into grazing we were alerted by the farmer who said:

"Very interesting things were happening in the forage crop field! The sheep are camped in the Winfred all the time; they graze it nearly to the floor, and then break through the fence to get at it again!"

In the second trial the farmer commented:

"I would never have believed that lambs could be so choosy. It is obvious to me that Winfred has something the stock prefer, and their conversion rate seemed to be so much quicker when they were concentrating on the Winfred".

Catch Crops



TIP
Add N-Scent
Cover Mix with
Autumn/Winter Feed
to help deter
flea beetle & fix N
page 81

Autumn Feed

- Sow from April to Mid August to utilise from June to February
- Rapid establishment and good Winter hardiness
- Very high yields of palatable forage
- Excellent disease and bolting resistance for improved grazing quality and a longer grazing period

45%	WINFRED Forage Rape
35%	VOLLENDIA Stubble Turnip
15%	RONDO Stubble Turnip
5%	ASTERA Kale
100%	Packed and supplied in 5kg bags Seed Rate: 2.5 - 6kg/ha (1 - 2.5kg/acre)

Winter Feed

- An Sow from June to end of July to utilise from October to February
- Highly palatable, leafy forage
- Excellent Winter hardiness gives more reliable grazing in January and February than Stubble Turnips

50%	ASTERA Kale
25%	WINFRED Forage Rape
25%	GREEN GLOBE Turnip
100%	Packed and supplied in 5kg bags Seed Rate: 2.5 - 6kg/ha (1 - 2.5kg/acre)



Raptor

- Oliver's best selling catch crop options combined into one mixture
- Can be used as a Summer or Autumn grazing mix and can be grazed 2-3 times
- Produces a more balanced ration for grazing stock. Graze after 8-10 weeks to optimise regrowth potential.
- Tornado provides more reliable regrowth than Winfred alone even after hard grazing

10%	WINFRED Forage Rape
90%	TORNADO Ryegrass
100%	Packed and supplied in 20kg bags Seed Rate: 20 - 25kg/ha (8 - 10kg/acre)



Crimson Tide



- An alternative to brassicas where flea beetle is a problem
- Fast and reliable establishment
- Can be used as a Summer or Autumn grazing mix and can be grazed 2-3 times
- Produces a more balanced ration for grazing stock with high protein from the clover

77%	WESTERWOLDS Ryegrass
13%	CRIMSON Clover
10%	BALANSA NEW Clover
100%	Packed and supplied in 20kg bags Seed Rate: 30 - 35kg/ha (12 - 14kg/acre)



Game Cover Crops

	Sowing Date	Cover Period	Cover Quality	Feeding Quality	Marginal Areas	Seed Rate (kg/acre)
Winter Holding Crops						
Game Maize	Apr - Jun	Aug - Jan	○○○○	○○○		1 pack
Winfred	Apr - Jul	Aug - Jan	○○○○		○○○	1.5 - 2.5
Kale	Apr - Jun	Aug - Feb	○○○○		○○○○	1.0 - 2.0
Sunflower	May - Jun	Aug - Dec	○○○	○○		5.0
Quinoa	Mar - May	Aug - Dec	○○	○○○	○○	2.0
Linseed	Mar - May	Aug - Nov	○○	○○	○○○	25.0
Dwarf Sorghum	May - Jun	Aug - Jan	○○○	○○		8.0
Intermediate Sorghum	May - Jun	Aug - Dec	○○○	○		8.0
Buckwheat	Apr - Jun	Jun - Oct	○○	○○		20.0
Phacelia	Apr - Aug	Jun - Dec	○○		○○	3.0 - 4.0
Yellow Blossom Sweet Clover	Apr - Jul	Jun - Feb	○○○	○	○○	2.5
Holdfast Canary Grass	Apr - Jun	Jun - Feb	○○○○	○	○○	2.5
Reed Canary Grass	Apr - Jun	Jun - Feb	○○○○	○	○○○○	2.5

Winter Holding Mixtures						
BGM1	Apr - Aug	Jun - Feb	○○○	○	○○○○	8.0
Millet	May - Jun	Aug - Dec	○○○	○○○		5.0
Broadshot	Jun - Jul	Sept - Feb	○○○○	○○	○○○○	6.0
Partridge Mixture	Mar - Apr	Sept - Dec	○○○	○○○	○○○	25.0
Northern Star	Mar - May	Aug - Dec	○○○○	○○○	○○○○	20.0
Overdrive	Mar - Jun	Aug - Feb	○○○○	○○	○○○	2.5
WBS 1	Mar - Apr	Aug - Jan	○○	○○○	○○○	16.0
WBS 1 Northern	Mar - Apr	Aug - Jan	○○	○○○	○○○	16.0
WBS 2	Mar - Apr	Aug - Feb	○○○	○○○	○○○	16.0
WBS 2 Northern	Mar - Apr	Aug - Feb	○○○	○○○	○○○	16.0
WBS 3	Mar - Apr	Aug - Jan	○○	○○○	○○○	16.0
Decoy Mixture	Apr - Jun	Aug - Jan	○○○	○○○○	○○○	8.0

Catch Crops						
Mustard	Aug - Sept	Oct - Dec	○○○	○○	○○	5.0
Fodder Radish	Aug	Oct - Dec	○○○	○○	○○	3.0
Forage Rape	Jul - Aug	Aug - Feb	○○○○		○○○○	1.0 - 2.0
Texsel Greens	Mar - Jun	Aug - Jan	○○	○○	○○○	2.5
Late Cover Mix	Aug	Oct - Feb	○○○○	○○	○○○	5.0

Kale

Kale is still the mainstay of Winter game cover and the only crop to provide total shelter to game birds throughout the Winter months. Its slow establishment exposes it to Flea Beetle attack and drought. New hardy Fodder Rapes are taking some of this market (see Winfred).



Winfred

Having trouble establishing Kale? Then Winfred is the solution

- Winfred is a Kale x Stubble Turnip hybrid
- Easy to establish being much more vigorous than Kale
- Shows rapid recovery from Flea Beetle attack
- Excellent crop canopy and Winter hardiness
- Good disease resistance and option for final grazing after the shooting season is over

Goldeneye

- Especially bred for the game cover market
- A giant type Kale with a leafy top, strong stem, good Winter hardiness and good tolerance of disease
- In SAC trials Goldeneye achieved a higher vigour score than Caledonian Kale and equal or better club root tolerance

Broadshot

- The aim is feed and cover with colourful appearance
- Includes GOLDENEYE Kale where larger leaves afford greater shelter
- Targeted for insect attraction especially from Phacelia
- Enough in the armoury that it can be left to regenerate for a second year
- Careful selection from a range of species to facilitate economical weed control with chemicals such as Clorpyralid
- All the above bullets will give you the best bang for your buck



BEST SELLER
EXCLUSIVE TO
Oliver Seeds

34%	BUCKWHEAT
17%	GOLDENEYE KALE
10%	PHACELIA
10%	WHITE MILLET
8%	FORAGE RAPE
8%	RED MILLET
5%	JAPANESE REED MILLET
4%	QUINOA
4%	YELLOW BLOSSOM CLOVER
100%	Packed and supplied in 10kg bags Seed Rate: 15kg/ha (6kg acre)

Stewardship and Environmental Leys

The requirements for stewardship and environmental seeds are diverse and wide ranging. New initiatives and changes are ongoing but a summary of our best selling items are given over the next 5 pages.

Full details are contained in the **Oliver Seeds 'Your Countryside 2023'** brochure, so please call us if you wish to receive a printed copy or visit our website for details.

01506 894822

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Legume Fallow Mixtures **Two Year (AB15)**

Agreements starting
before or after 1st Jan 2020

Legume Fallow Mixture With Grass

66%	PERENNIAL RYEGRASS
15%	RED CLOVER
10%	VETCH
4%	BIRDSFOOT TREFOIL
3%	BLACK MEDICK
1%	ALSIKE CLOVER
1%	LUCERNE
100%	Packed and supplied in 20kg bags Seed Rate: 30 - 40kg/ha (12 - 16kg/acre)

Agreements starting
after 1st Jan 2021

Legume Fallow Mixture Non Grass

52%	VETCH
16%	ALSIKE CLOVER
16%	LUCERNE (INOCULATED)
10%	RED CLOVER
3%	BIRDSFOOT TREFOIL
3%	BLACK MEDICK
100%	Packed and supplied in 20kg bags Seed Rate: 15 - 20kg/ha (6 - 8kg/acre)

Flower Rich Margin Mixture (AB8)

25%	SLENDER RED FESCUE
25%	SMOOTH STALKED MEADOW GRASS
12%	CHEWINGS FESCUE
10%	CRESTED DOGSTAIL
5%	HARD FESCUE
3.25%	SAINFOIN
3%	VETCH
3%	BROWNTOP BENT
2.5%	BIRDSFOOT TREFOIL
2%	BLACK MEDICK
2%	RED CLOVER
2%	BLACK KNAPWEED N
1.3%	OXEYE DAISY N
1.2%	YARROW
1%	WILD CARROT N
1%	PLANTAIN
0.5%	SELFHEAL N
0.25%	MUSK MALLOW N
100%	Packed and supplied in 10 & 20kg bags Seed Rate: 16 - 20kg/ha (6.5 - 8kg/acre)

N = UK Native Seed



We have two other options that comply for AB8:

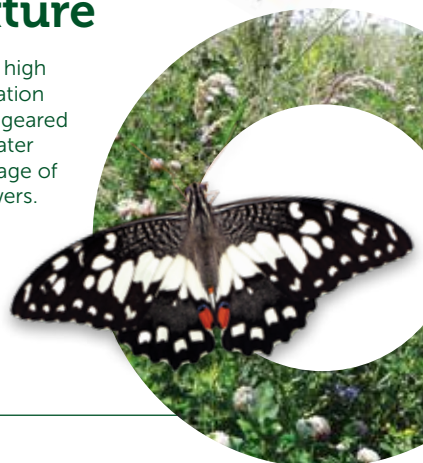
BGM4 with Wildflowers & Fine Grasses

This is an economical mix within the parameters allowed.



Butterfly & Bumblebee Mixture

This is a high specification mixture geared to a greater percentage of wildflowers.



Wild Bird Seed Mixtures

These mixtures will help feed seed eating birds, especially where there are few remaining food sources.

The seed may be sown in blocks or strips to aid weed control and there are six options outlined below to provide one or two year feed and cover options. The sown areas may be relocated to clean ground to avoid the build up of weeds and disease.

WBS1 (AB9)

Wild Bird Seed Annual Mixture

Provides cover and feed for small birds, mammals and game throughout the year.

- Attracts tree sparrows
- Will provide shelter in "open" cover and shed seed through the late Autumn and Winter period
- No cover in the second year

Sow Late March - End April

WBS3 (AB9)

Wild Bird Seed Annual Mixture

Provides cover and feed for small birds, mammals and game throughout the year.

- Attracts finches and buntings

Sow Late March - End April

WBS3 & WBS4 are herbicide tolerant, but please discuss with your agronomist for current specific products and recommendations.

WBS2 (AB9)

BEST SELLER

Wild Bird Seed 2 Year Mixture

Will provide more cover than WBS1, with seed shedding in Autumn and Winter to provide feed.

- Attracts grey partridge
- The Kale and self sown volunteers have the potential to provide feed and cover in the second year

Sow Late March - End April

WBS4 (AB9)

Wild Bird Seed Annual Mixture

Contains a more diverse range of species than WBS3

- Attracts Finches and Buntings
- Will provide shelter in "open" cover and shed seed through the late Autumn and Winter period
- No cover in the second year

Sow Late March - End April

Formulas suitable for Northern areas are available

Stewardship and Environmental Leys

Legume and herb mixtures provide an abundance of productive grazing for livestock and a habitat and food source for invertebrates and pollinators, supporting biodiversity.

They also act as soil conditioners mainly through aeration and nutrient provision.

Legume and Herb Rich Mix (GS4) ✓

Comprehensive spread of grasses and herbs for good forage performance whilst maintaining ecological benefits.

- Utilises the benefits of quality forage grasses and legumes
- Herbs for enhanced mineral and trace element uptake and preferential grazing
- Omits Chicory so the ley can be utilised more easily for hay or silage
- Optimum stock health benefits from the species range included
- Enhances soil health and nutrient fixation

25%	PERENNIAL RYEGRASS
25%	FESTULOLIUM
15%	CREEPING RED FESCUE
10%	SMOOTH STALKED MEADOW GRASS
7%	RED CLOVER
5.6%	SAINFOIN
5%	TIMOTHY
3%	ALSIKE CLOVER
1.93%	LUCERNE (INOCULATED)
1%	SHEEP'S BURNET
0.5%	BIRDSFOOT TREFOIL
0.5%	PLANTAIN
0.25%	YARROW
0.2%	SHEEP'S PARSLEY
0.02%	BLACK KNAPWEED (N) N
100%	Packed and supplied in 20kg bags Seed Rate: 30kg/ha (12kg/acre)



Herbal Meadow Mix (GS4) ✓

Comprehensive spread of grasses and herbs with greater focus on root mass and soil conditioning whilst still offering high forage quality.

- Utilises the benefits of quality forage grasses and legumes
- Herbs for enhanced mineral and trace element uptake and preferential grazing
- Includes Chicory for increased drought tolerance and anthelmintic properties
- Greater proportions of deep rooting species such as Cocksfoot, Lucerne, Chicory and Festulolium for added root mass and soil conditioning properties
- Enhances soil health and nutrient fixation

27%	PERENNIAL RYEGRASS
20%	FESTULOLIUM
13%	COCKSFOOT
10%	SMOOTH STALKED MEADOW GRASS
7%	RED CLOVER
6%	SAINFOIN
5%	TIMOTHY
5%	LUCERNE (INOCULATED)
3%	ALSIKE CLOVER
1%	FENUGREEK
1%	PERENNIAL CHICORY
0.7%	PLANTAIN
0.5%	BIRDSFOOT TREFOIL
0.5%	SHEEP'S BURNET
0.25%	YARROW
0.05%	SHEEP'S PARSLEY
100%	Packed and supplied in 20kg bags Seed Rate: 30kg/ha (12kg/acre)



Landmark Spectrum (GS4) ✓

See the Landmark Spectrum mixture and more about GS4 on page 37

Cover Crops



To discover more, visit

WWW.OLIVER-SEEDS.CO.UK/COVERCROPS

The characteristics of ultimate green cover crops would be:

- Suppression of weeds
- Preventing leaching of soil nutrients
- Improvement of fertility by increasing nutrient levels and organic matter
- Reduction of pest and disease risk in following crops
- NOT to introduce volunteer weeds
- Require limited maintenance

Choice of crop depends upon the length of time it will be in the ground, the date of sowing and disease risk in any rotation.

Full details on all Cover Crops are in the Your Countryside brochure

Pests and diseases

The choice of green cover crop is affected by both the problems anticipated in a rotation and specifically the following crop. There are many examples of linked pests or diseases. Avoid choosing green cover crops from the same plant family.

Cover Crop Selector

	Sowing Date ¹	Ability to Suppress Weeds	Ability to Retain Nutrients	Ability to Add Fertility	Weed Seed Risk ²	Extra Grazing(G) or Silage(S) ³
Perennials						
Sweet Clover	Apr - Aug	●●	●●●	●●●●	LOW	
Annuals						
Vetches	Mar - Sept	●●●	●●●	●●●	LOW	S
Nematode Buster	Apr - Sept	●●●●	●●●		LOW	G ⁴
Terminator	Apr - Sept	●●●●	●●●		LOW	G ⁴
Mustard	Apr - Sept	●●●●	●●●		LOW	G ⁴
Fodder Radish	Jul - Aug	●●●●	●●●		LOW	G ⁴
Forage Rape	May - Aug	●●●●	●●●		LOW	G
Phacelia	Apr - Aug	●●●	●●		MODERATE	

¹ Sowing dates will vary according to site and region.

² Particularly important in organic rotations.

³ Green cover taken for fodder by grazing or cutting will significantly reduce the green manure value.

⁴ Fodder Radish and Mustard can be grazed for a brief period, before flowering.

Buster Cover Mix

A mix of species to provide Nitrogen fixation, soil conditioning and root mass

- Quick to establish and fast growing
- Frost will kill Buckwheat
- Very good weed suppression and N fixation
- Not really suitable for grazing
- Species are deep rooting for soil aeration and conditioning
- Sow by mid September



35%	BUCKWHEAT
15%	LINSEED
15%	DAIKON RADISH
12%	CRIMSON CLOVER
12%	FODDER RADISH
6%	GOLD OF PLEASURE
5%	PHACELIA
100%	Packed and supplied in 25 & 500kg bags Seed Rate: 15 - 25kg/ha (6 - 10kg/acre)

Nematode Resistant Mustard

- BRACO** is a new Nematode resistant Mustard that breaks eelworm life cycles by preventing cysts from developing
- Mustard mops up residual nitrogen and returns it to the soil profile for following crops
- Is fast establishing, smothers weeds very effectively and has biofumigant properties
- Plough in when flowering starts and is a low cost option

100%	BRACO
100%	Packed and supplied in 25kg bags Seed Rate: 10 - 12kg/ha (4 - 5kg/acre)



Nematode Buster

Nematode resistant mustard

- The combination of Fodder Radish and Nematode Resistant Mustard allows a good rotational break, lowers eelworm populations for subsequent susceptible crops and improves soil structure

40%	FODDER RADISH
60%	NEMATODE RESISTANT MUSTARD
100%	Packed and supplied in 25kg bags Seed Rate: 10 - 12kg/ha (4 - 5kg/acre) Sowing Depth approx. 2.5cm

N-Joy Cover Mix

A combination that provides good grazing and soil conditioning where desired

- Quick to establish and fast growing
- Prolonged growing season and winter hardy
- Very good weed suppression and N fixation
- All species are readily grazed with high protein levels
- Species are deep rooting for soil aeration and conditioning
- Benefits the livestock above and below the surface
- Sow by mid September



70%	VETCH
10%	CRIMSON CLOVER
5%	FORAGE RAPE
10%	WHITE MILLET
5%	PLANTAIN
100%	Packed and supplied in 25kg bags Seed Rate: 22 - 25kg/ha (9 - 10kg/acre)



N-Liven Cover Mix

NEW



A high legume content mixture for maximum nitrogen fixation that is cereal and brassica free

- Primary role of this seed mix is nitrogen fixation to boost soil fertility between main crops especially two cereal crops
- Good cover well into late winter and provides a range of rooting depth for enhanced soil aeration and drainage
- Can be grazed as a means of removal rather than chemical or cultivation methods

60%	VETCH
20%	CRIMSON CLOVER
10%	LINSEED
10%	PHACELIA
100%	Packed and supplied in 25kg bags Seed Rate: 15kg/ha (6kg/acre)



N-Rich Cover Mix

A reliable and economical mixture that can be used for grazing as well as soil conditioning

- Quick to establish and fast growing
- Prolonged growing season and winter hardy
- Vetches fix nitrogen at lower temperatures than other legumes
- Both species provide good grazing
- Both species are deep rooting for soil aeration and conditioning
- Sow by the end of September

80%	FORAGE RYE
20%	VETCH
100%	Packed and supplied in 25 & 500kg bags Seed Rate: 50 - 75kg/ha (20 - 30kg/acre)



N-Scent Cover Mix

NEW



A companion crop to fix nitrogen and deter flea beetle

- Two fast growing species that both have the ability to fix nitrogen and act as a distraction to plant pests and predators
- Fenugreek gives off a distinctive aroma that deters flea beetle

50%	BERSEEM CLOVER
50%	FENUGREEK
100%	Packed and supplied in 25kg bags Seed Rate: 10kg/ha (4kg/acre)

N-Trap Cover Mix

NEW



A companion crop to deter flea beetle and act as a diversionary food source for other predators

- A combination of fast growing species that act as an alternative food source and distraction to pests that prey on brassica crops
- The canopy cover has the potential to slow the progress of flea beetle whilst fixing and releasing nitrogen to companion oilseed rape crops
- The cover crop that will die back over winter for ease of management

65%	BUCKWHEAT
35%	BERSEEM CLOVER
100%	Packed and supplied in 25kg bags Seed Rate: 10kg/ha (4kg/acre)



Amenity Grass, Landscaping and Sports

PM27 Ecosward Plus

Low maintenance landscape mix with clover including ryegrass

- Reduce input costs and be kind to the environment by eliminating the need for excessive fertiliser, water and herbicide
- Microclover naturally fixes nitrogen for the grasses while significantly increasing drought tolerance and disease resistance
- Produces a visually attractive, dark green, hard wearing turf
- High carbon capture mixture



50%	DOUBLE 4Turf® Tetraploid Perennial Ryegrass
35%	SERGEI Strong Creeping Red Fescue
10%	WAGNER <small>NEW</small> Chewings Fescue
5%	Microclover
100%	Packed and supplied in 20kg bags Sowing Rate 25g/m ² Overseeding 25g/m ² Mowing Height 13-25mm

PM50 Quality Lawn

High quality hard wearing lawn

- Establishes rapidly and is a hardwearing, high quality and durable turf
- Fine leaved sward of excellent appearance
- Shade tolerant and thrives under low maintenance management
- High levels of disease resistance



5%	TETRADRY <small>NEW</small> 4Turf® Tetraploid Perennial Ryegrass
10%	TETRAGAME <small>NEW</small> 4Turf Tetraploid Perennial Ryegrass
15%	CHARDIN Perennial Ryegrass
20%	DICKENS Perennial Ryegrass
30%	SERGEI Strong Creeping Red Fescue
10%	WAGNER <small>NEW</small> Chewings Fescue
10%	PINAFORE <small>NEW</small> Slender Creeping Red Fescue
100%	Packed in 5kg, 10kg & 20kg bags Sowing Rate 35 - 50g/m ² Overseeding 15 - 25g/m ² Mowing Height down to 10mm

PM51 Greenscape

Hard wearing lawns (with ryegrass)

- Highly adaptable mixture that establishes rapidly
- Forms hard wearing, fine leaved sward
- Ideal for general purpose landscaping and lawns

BACK
LAWN
MIX

40%	DOUBLE 4Turf® Tetraploid Perennial Ryegrass
40%	MAXIMA Strong Creeping Red Fescue
20%	ESQUIRE Perennial Ryegrass
100%	Packed in 5kg, 10kg & 20kg bags Sowing Rate 35 - 50g/m ² Overseeding 25 - 50g/m ² Mowing Height down to 13mm

PM52 Greenfine

Fine lawns (without ryegrass)

- Luxuriant fine turf with good colour
- Develops a very dense sward under close mowing
- Low maintenance compared to a Ryegrass based sward
- Extremely good for banks or inclines to bind and prevent erosion

FRONT
LAWN
MIX

10%	WAGNER <small>NEW</small> Chewings Fescue
20%	SAMANTA Slender Creeping Red Fescue
70%	MAXIMA Strong Creeping Red Fescue
100%	Packed and supplied in 20kg bags Sowing Rate 35 - 50g/m ² Overseeding 25 - 50g/m ² Mowing Height down to 13mm

PM60 Greenshade

Shaded conditions (without ryegrass)

- Produces a fine, dense, shade tolerant turf
- Will tolerate mowing down to 25mm
- Mowing down to 50mm will allow the sward to remain thick and avoid stress

SHADY
LAWN
MIX

10%	SABRENE 1 Rough Stalked Meadow Grass
30%	WAGNER <small>NEW</small> Chewings Fescue
20%	SAMANTA Slender Creeping Red Fescue
40%	SERGEI Strong Creeping Red Fescue
100%	Packed and supplied in 20kg bags Sowing Rate: 35 - 50g/m ² Overseeding: 25 - 50g/m ² Mowing Height down to 25mm

PM70 Recreation

Sports fields, tees and fairways and hard wearing landscape turf

- Establishes rapidly and is a hardwearing, high quality and durable turf
- Fine leaved sward of excellent appearance
- Shade tolerant and thrives under low maintenance management
- High levels of disease resistance

10%	TETRAGAME <small>NEW</small> 4Turf® Tetraploid Perennial Ryegrass
25%	DOUBLE 4Turf® Tetraploid Perennial Ryegrass
10%	CLAUDINE Perennial Ryegrass
25%	PONDEROSA <small>NEW</small> Perennial Ryegrass
30%	SERGEI Strong Creeping Red Fescue
100%	Packed and supplied in 20kg bags Sowing Rate 35 - 50g/m ² Overseeding 25 - 50g/m ² Mowing Height down to 12mm



More mixtures available in our Masterline brochure

Wild Flower Solutions

Pro Flora 110 Economy General Purpose Plus Annuals

Economical Grass and Wild Flower mixture

- Contains a wide range of wild flowers
- Creates an economical, floristically diverse sward
- Attractive ornamental grasses
- Tolerant of wet soils

5%	WILD FLOWERS Birdsfoot Trefoil, Black Knapweed, Black Medick, Common Vetch, Corn Cockle, Corn Marigold, Corn Poppy, Meadow Buttercup, Musk Mallow, Ox-eye Daisy, Ribwort Plantain, Red Campion, Self Heal, Corn Flower, White Campion and Yarrow
95%	ORNAMENTAL GRASSES Browntop Bent, Red Fescue, Crested Dogtail, Chewings Fescue, Hard Fescue, Smooth Stalked Meadow Grass and Strong Creeping Red Fescue
100%	Packed and supplied in 1kg bags Seed Rate 5 - 8g/m ² Flower Height: 5cm - 1.2m

Pro Flora 10 General Purpose Plus Annuals

90% Ornamental Grass; 10% Wild Flowers, including Cornfield Annuals. Replicates a traditional Country Meadow

- Contains a wide range of wild flowers
- Creates a colourful sward attractive to insects
- Attractive ornamental grasses
- Tolerates extensive grazing by animals

10%	WILD FLOWERS Birdsfoot Trefoil, Black Knapweed, Black Medick, Common Vetch, Corn Cockle, Corn Marigold, Corn Poppy, Meadow Buttercup, Musk Mallow, Ox-eye Daisy, Ribwort Plantain, Red Campion, Self Heal, Corn Flower, White Campion and Yarrow
90%	ORNAMENTAL GRASSES Browntop Bent, Red Fescue, Crested Dogtail, Chewings Fescue, Hard Fescue, Smooth Stalked Meadow Grass
100%	Packed and supplied in 1kg bags Seed Rate 5 - 8g/m ² Flower Height: 5cm - 1m

Pro Flora 8 Legacy Country Meadow

20% Wild Flowers 80% Ornamental Grass

- Contains a wide range of UK native wild flowers
- Creates an impressive, floristically diverse sward
- Attractive ornamental grasses
- Tolerant of low fertility sites

20%	WILD FLOWERS Birdsfoot Trefoil, Black Knapweed, Black Medick, Meadow Buttercup, Musk Mallow, Ox-Eye Daisy, Ribwort Plantain, Red Campion, Salad Burnet, Self Heal, White Campion, Yarrow
80%	ORNAMENTAL GRASSES Browntop Bent, Red Fescue, Crested Dogtail, Chewings Fescue, Hard Fescue, Smooth Stalked Meadow Grass
100%	Packed and supplied in 1kg bags Seed Rate 5g/m ² Flower Height: 5cm - 1m

100% Cornfield Annuals

Visually impressive Cornfield Annuals mixture

- This is a blend of wild flowers which traditionally occurred in cornfields before the widespread use of herbicides
- This is an excellent mixture for fast visual impact

45%	CORN COCKLE
25%	CORN FLOWER
15%	CORN POPPY
10%	CORN MARIGOLD
5%	CORN CHAMOMILE
100%	Packed and supplied in 1kg bags Seed Rate 1g/m ² Flower Height: 5cm - 1.2m

Occasionally, shortages of some varieties may occur throughout the season. We therefore reserve the right to replace varieties not available with a suitable alternative. Any alteration to the mixture will be clearly shown on the bag label. Our standard terms and conditions apply; these are outlined on the reverse of our invoices.

Colour Boost Range

Choose your Wild Flower Seeds

Carnival

High Impact
Annuals



Bio Diversity

High Impact
Perennials



Floral Carpet

High Impact
Low Growing
Annuals



100%
Cornfield
Annuals



For full details and your copy of the **Masterline 2023** brochure, please call, email or visit our website.

01526 831306 david.bouch@hlhlt.co.uk

www.hlhlt.co.uk/products/seed



Discover more **Amenity**
and **Wild Flower** mixtures
available in our Masterline brochure

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