



2023

Grass Wise Technical Manual



HUTCHINSONS

Crop Production Specialists

Quality Grass Seed





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Mixture selector



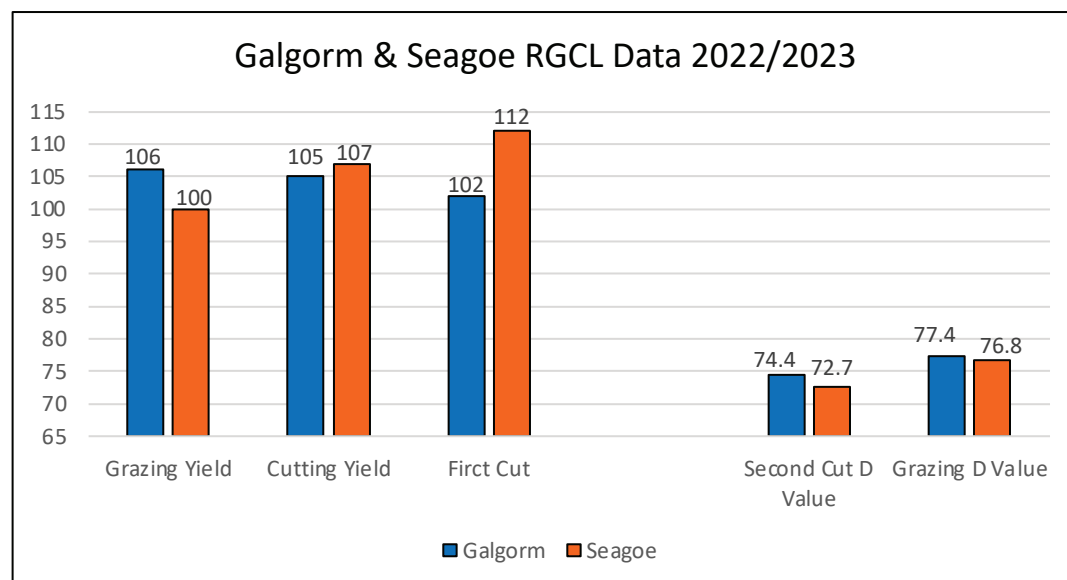


Galgorm

- Found in Supersward, Emerald, Emerald Plus, Gold and Gold Plus
- The highest yielding intermediate diploid on the RGCL 2022/2023
- 106% total grazing yield and 105% total mean cutting yield
- Heading date 23rd May
- High quality forage; Grazing D value of 77.4, 1st cut D value of 71.5
- Excellent crown rust resistance (6.1)
- Bred in the UK

Seagoe

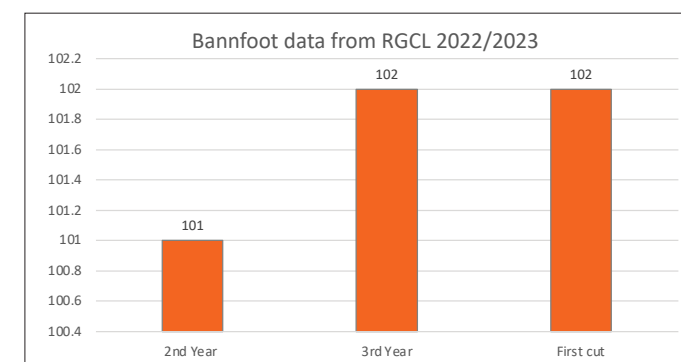
- Found in Supersward, Emerald, Emerald Plus, Gold and Gold Plus
- Intermediate tetraploid perennial ryegrass
- High yielding – 107% for total mean cutting, 112% 1st cut yield
- Heading date 23rd May
- Excellent crown rust resistance (6.1)
- Bred in the UK



Bannfoot

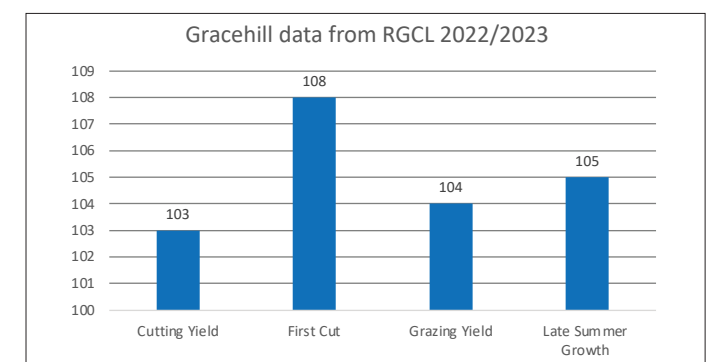
New for 2023

- Found in Supersward
- Tetraploid Hybrid Ryegrass
- High Yielding; 101% second year yield and 102% third year yield with a first cut of 102%
- Heading date 20th May
- Excellent ground cover scores
- Bred in the UK



Gracehill

- Found in Gold and Gold Plus
- Late tetraploid perennial ryegrass
- High yielding; 103% for cutting and 104% for grazing total yield with high ME yields (102%)
- Heading date 1st June
- Excellent crown rust resistance (7.7)
- Bred in the UK





Fastgrass

A short-term mixture for up to 18 months productivity. Will produce large volumes of silage from a high input system with a winter grazing option. Suitable for any livestock class and an excellent choice for a short term grass break in arable rotation.

- Potential to yield over 18t DM in its first year
- 100% ryegrass, high input – high output ley
- Will grow down to soil temperatures of 3-4°C, stretching the growing season
- Potential for 4 or more cuts/annum on a frequent cutting schedule (4 -5 weeks) or a mix of cutting and grazing. Must be cut frequently to achieve best quality.
- UK proven varieties
- Italian Ryegrass component listed RGCL 2022/2023
- Good choice for overwintering stock or green manure
- Viable option for sowing after maize or later cereal harvests, dependent on soil conditions
- Sow at 14kg/acre for full cropping or 10kg/acre for catch cropping

12.5kg	BARSPECTRA II	Westerwold (TET)
12.5kg	STEEL	Italian Ryegrass (DIP)
25kg Pack		
10 - 14kg per acre		



Clamp Buster

A highly productive short term mixture for up to 3 years suited to high input, intensive systems relying on large volumes of high quality forage. Clamp buster is suitable for red meat and dairy systems which can take advantage of long growing seasons.

- Clamp buster is a HIGH INPUT – HIGH OUTPUT ley which will respond to high levels of nitrogen inputs and will yield up to 17t DM/ha in its first year
- Italian Ryegrasses grow down to 4°C soil temperature giving extra shoulder growth in spring and autumn. 4 cuts / annum are easily achievable, with 4 – 6 weeks between cuts & the option for back end or early spring grazing due to the long growing season
- Varieties all head on the same day for a uniform crop quality
- The target sowing rate and plant population for Clamp buster is 4,551,000seeds/acre or 1124seeds/m²
- All varieties listed RGCL 2022/2023
 - Alamo maintains a higher than average ground cover, along with solid first and second cut yields
 - Barimax produces better than average yield and ME output in first year of production
 - High crown rust resistance from Barimax and Novial

5.00kg	ALAMO	Italian Ryegrass (DIP)
5.00kg	BARIMAX	Italian Ryegrass (TET)
4.00kg	NOVIAL	Hybrid Ryegrass (TET)
14kg per acre		



Clamp Buster Red

A low input variation of Clamp buster where the Red Clover component has been added to reduce reliance on nitrogen fertilisers. Clamp buster red produces large volumes of high protein silage with an aftermath ideal for lamb finishing. Clamp buster red is suited to dairy and beef enterprises in particular.

- Clamp buster red will yield up to 16t DM/ha in its first year
 - Low input, high protein ley where growers generally use no nitrogen or only a small dressing in spring before clover activity starts at 7+°C
 - Best suited to cutting but ideal for finishing lambs or growing youngstock later in the year
 - Whilst ideal for finishing lambs on a higher protein diet, breeding sheep should NOT be fed red clover from 6 weeks before tupping until 6 weeks after tupping to reduce the
- ostrogen content in the diet
 - Up to 4 cuts / annum allowing 6 – 8 weeks between cuts
 - Italian Ryegrasses will grow down to 4°C soil temperature which allows for an extended growing season
 - Silages with ME of 11.2 and CP of up to 18%
 - Trials have shown improvements in kill out percentage of lambs finished on red clover of up to 3%
 - Barimax is a constant performer through the growing year, allowing best efficiency of soil
- nitrogen
 - Red clover plants grow from a single crown which can be vulnerable: care must be taken to leave a 4 inch stubble when silaging, graze and cut in dry conditions and do not over graze, particularly with cattle.
 - Requires good levels of P & K and good pH but can fix up to 150kg N/Ha/annum
 - Sowing rate and target plant population of 5,147,000 seeds/acre pack or 1271 seeds/m²

4.00kg	ALAMO	Italian Ryegrass (DIP)
4.00kg	BARIMAX	Italian Ryegrass (TET)
3.00kg	NOVIAL	Hybrid Ryegrass (TET)
3.00kg	CLOVERWISE RED	Red Clover Blend

14kg per acre



Grasswise Suppressor

Grasswise Suppressor is a flexible, short term grass seed option created by the HLH Grasswise and Technical Teams as a rotational and innovative way to help combat the burden of blackgrass in arable rotations.

- Designed to be maintained for 2 - 3 years, the Italian ryegrass component is very quick to establish, even at low soil temperatures with the ability to grow down to around 4°C.
 - A good option for establishing after winter or spring cereals across most regions or maize in earlier areas. The vigour of the Italian ryegrass component has been specifically selected to suppress and compete with the blackgrass.
 - Hybrid ryegrass Novial is also very quick to establish although its optimum soil temperature is 5-6°C or above
- The inclusion of diploid perennial ryegrass Glenariff has been used to significantly improve ground cover as it has a smaller seed size (so more per kg) and also, a higher tillering capacity. Suppressor has an advised sowing rate of 14kg per acre and a target plant population of 1249 seeds/m² which could be as much as 200 seeds/m² more than a traditional pure Italian mix with lower advised sowing rates.
 - All varieties included are on the RGCL 2022/2023. There is a tight, 6 day heading date pattern between 20th and 26th May to allow for easy silage management and to avoid seed shedding.

4.00kg	ALAMO	Italian Ryegrass (DIP)
4.00kg	BARMULTRA II	Italian Ryegrass (TET)
4.00kg	NOVIAL	Hybrid Ryegrass (TET)
2.00kg	GLENARIFF	Intermediate Perennial Ryegrass (DIP)

14kg per acre



Super Sward

An intensive 3 – 5 year ley, which expands the shoulders of the season for those who can utilise it. Up to 3 cuts and grazing this ley will yield 10 % more than a perennial based ley under a higher nitrogen system.

- A 100% ryegrass based mixture which will respond to high levels of fertility and provide up to 3 cuts of silage with the option to graze later in the season. Supersward is suitable for both dairy and red meat systems.
- Hybrid Ryegrasses extend the production season as they grow down to 6°C making Supersward ideal for farms on lighter land who can silage mid May or those with sheep or youngstock who can graze early.
- Galgorm is the highest yielding variety in its class combined with high digestibility
- Sowing rate and target plant population of 1470 seeds/m²
- All varieties RGCL 2022/2023 Listed
 - Galgorm and Seagoe are both exceptionally high yielding (105% & 107% respectively)
 - Seagoe has a first cut of 112%
 - Barsilo has exceptional early spring growth of 107% and a 2nd cut of 113%
 - The mixture is above the national list average for Drechslera and crown rust

3.50kg	BARSILO	Hybrid Ryegrass (DIP)
3.00kg	BANNFOOT	Hybrid Ryegrass (TET)
4.50kg	GALGORM	Intermediate Perennial Ryegrass (DIP)
3.00kg	SEAGOE	Intermediate Perennial Ryegrass (TET)

14kg per acre



Emerald

A flexible medium-long term ley suitable for intensive dairy, beef or sheep systems. Ideal for high quality silage with the option to graze.

- Fully flexible 100% perennial ryegrass mixture which is ideal for all livestock farming enterprises requiring high yields of silage with an option to graze.
- A good option for multi-cut or conventional silage regimes.
- Can be grazed in the back end by stores and youngstock.
- Will respond highly to nitrogen inputs so is useful for units producing large volumes of slurry or those using a higher input system
- Clover free, to allow for a simplistic chemical programme with the option of overseeding white clover in during the second year
- Target sowing rate and plant population of 1616 seeds/m²
- All varieties RGCL 2022/2023 recommended.

4.00kg	GALGORM	Intermediate Perennial Ryegrass (DIP)
4.00kg	MOIRA	Intermediate Perennial Ryegrass (DIP)
3.00kg	FINTONA	Intermediate Perennial Ryegrass (TET)
3.00kg	SEAGOE	Intermediate Perennial Ryegrass (TET)

14kg per acre

Emerald Plus

A flexible medium- long term ley suitable for intensive dairy, beef or sheep systems wishing to reduced reliance on bagged nitrogen by utilising white clover.

- Inclusion of white clover improves intakes and animal performance (DLWG & milk yield) as well as improving the protein & mineral levels of grazed grass and silage. White clover will improve digestibility, particularly in dry periods midsummer.
- White clover fixes up to 150kg N/Ha/annum atmospheric nitrogen. The actual volume is dependent on management and soil conditions.
- A blend of leaf sizes are used to ensure the mixture will adapt and perform to any management system
- All RGCL 2022/2023 recommended
- Sowing rate and target plant population of 1914 seeds/m².

4.00kg	GALGORM	Intermediate Perennial Ryegrass (DIP)
4.00kg	MOIRA	Intermediate Perennial Ryegrass (DIP)
2.00kg	FINTONA	Intermediate Perennial Ryegrass (TET)
3.00kg	SEAGOE	Intermediate Perennial Ryegrass (TET)
1.00kg	CLOVERWISE WHITE	White Clover Blend

14kg per acre



Gold

A multi-purpose long term mixture best suited to dairy, sheep or beef systems looking for grazing and silage. Provides season long growth and timothy is added for persistence, hardiness and fibre.

- A long term mixture which excels under silage, grazing or a combined management.
- Will respond highly to nitrogen inputs so is useful for units producing large volumes of slurry or those using a higher input system
- Clover free, to allow for a simplistic chemical programme with the option of overseeding white clover in during the second year
- Timothy vastly increased seed numbers (2million/acre) and sward density to ensure a tight sward for carrying stock. It is a useful addition on heavier soils as it is tolerant of colder, wetter conditions
- Sowing rate and target plant population of 2074 seeds/m2
- All varieties are 2022/2023 recommended

2.00kg	MOYOLA	Early Perennial Ryegrass (DIP)
3.00kg	GALGORM	Intermediate Perennial Ryegrass (DIP)
3.00kg	SEAGOE	Intermediate Perennial Ryegrass (TET)
3.00kg	GLENARM	Late Perennial Ryegrass (DIP)
2.50kg	GRACEHILL	Late Perennial Ryegrass (TET)
0.50kg	COMER	Timothy

14kg per acre

Gold Plus

A multi-purpose long term mixture best suited to dairy, sheep or beef systems needing grazing and silage whilst looking to reduce reliance on artificial nitrogen inputs. Provides season long growth and timothy is added for persistence, hardiness and fibre.

- Inclusion of white clover improves intakes and animal performance (DLWG & milk yield) as well as improving the protein & mineral levels of grazed grass and silage. White clover will improve digestibility, particularly in dry periods midsummer.
- White clover fixes up to 150kg N/Ha/annum atmospheric nitrogen. The actual volume is dependent on management and soil conditions.
- A blend of leaf sizes are used to ensure the mixture will adapt and perform to any management system
- All RGCL 2022/2023 recommended
- Sowing rate and target plant population of 2373 seeds/m2.

2.00kg	MOYOLA	Early Perennial Ryegrass (DIP)
3.00kg	GALGORM	Intermediate Perennial Ryegrass (DIP)
2.00kg	SEAGOE	Intermediate Perennial Ryegrass (TET)
3.00kg	GLENARM	Late Perennial Ryegrass (DIP)
2.50kg	GRACEHILL	Late Perennial Ryegrass (TET)
0.50kg	COMER	Timothy
1.00kg	CLOVERWISE WHITE	White Clover Blend

14kg per acre



Westerwolds

Westerwolds are an annual ryegrass which establish quickly and provide large bulks of forage.

It has a growth habit similar to Italian ryegrass and is most suited to silage or hay production although a large root mass and the ability to ‘mop-up’ large volumes of Nitrogen also make it a very good green manure crop. If left to seed, westerwolds can be used to produce a bulky, less digestible crop suitable for hay production for horses.

Westerwolds will grow at lower soil temperatures than perennial ryegrasses so extending the growing season in spring and autumn.

As a member of the ryegrass family, they are highly responsive to Nitrogen applications, require good pH levels (minimum 6 pH) and bear in mind that large bulks of silage will remove large volumes of P & K from the ground reserves also.

Westerwolds can be sown at around 14kg/acre either in autumn or spring. For autumn sowings in August and September, it is likely that the crop will need tidying up with light sheep grazing to prevent it being too proud over winter. This crop will then provide either an early bite for stock or a very early silage crop (where conditions allow) in April. Westerwolds will provide early cuts of silage prior to seed head emergence ensure high D values and regrowth with subsequent cuts at around 5 week intervals. Being an annual, if westerwolds are allowed to go to head, they will not regrow.

The spring sown crop will provide its first crop of silage in roughly 10 -12 weeks or it can be grazed a month sooner.

BARSPECTRA II

Barspectra II offers 10% more forage than preceding varieties yielding over 16tDM/ha.

Bred and selected for spring growth, 1st and 2nd cut yields, disease resistance and leafiness. In our UK trials, the main two cuts provided nearly 65% of the total annual yield.

Sowing rate 12-14kg/acre for full cropping or 10kg/acre for catch crop use.

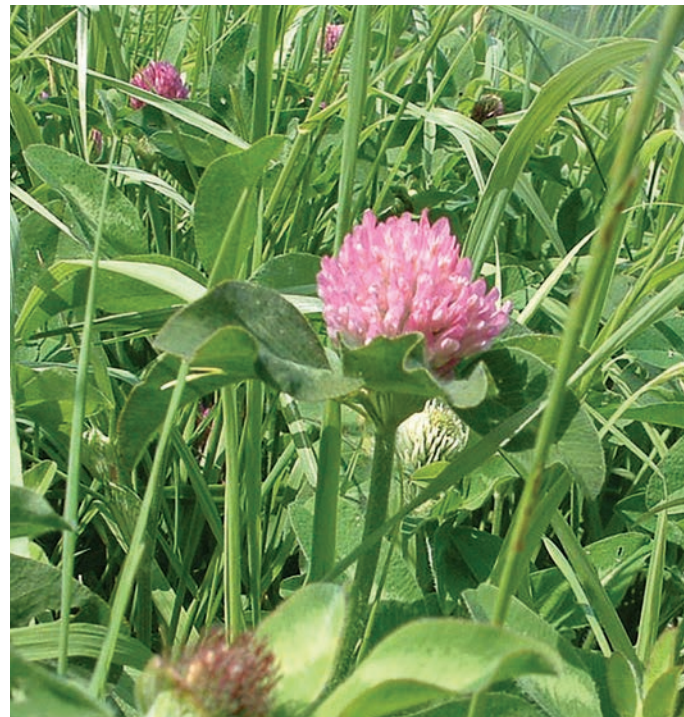


Cloverwise White

White Clover Blend

Compared to grass only, including white clover can improve sward quality, increase dry matter intakes and boost meat and milk yield. White clover can be cut or grazed.

- White clovers varieties have different leaf sizes and using a blend of clover allows the same sward to be cut and grazed. It also broadens genetic diversity, and disease and pest resistance, and allows varieties with different growth peaks to create season long benefits.
- White clover is perennial and has a stoloniferous growth habit. It prefers temperatures over 10°C, soil pH of at least 6.2 and a good P & K supply.
- In trials compared to grass alone, beef cattle had a daily DM intake of 2.5kg more resulting in 0.3kg more DLWG. Dairy cows have shown milk yield increases of between 0.3 and 0.45 kg per cow per day.
- The optimal white clover content of a sward is 30% which can fix up to 150 kg N/ha/annum. This depends on soil and climatic conditions.
- White clover can be oversown into an existing grass sward allowing for effective, simplistic weed control in the establishment year with only grass. Be mindful of 'withdrawal' periods on herbicides determining how soon after spraying that clover can be sown.
- Sow at 1 – 1.5kg/acre. Available in 5kg or 25kg packs.



Cloverwise Red

Red Clover Blend

Red clover can improve protein levels and reduce nitrogen requirements but needs careful management. Best suited to silage production.

- Typical red clover silages are 16%-20% protein, up to 12ME with good mineral content.
- Ideal for most stock classes including finishing lambs and growing youngstock
- Can persist for 5 years. It has an erect growth habit, from a single crown which requires protecting to maintain persistence.
 - Do not cut or graze below 10cm. Avoid overgrazing and heavy traffic.
 - Choose light, free draining soils that do not waterlog
 - Leave a 5-year gap between red clover crops to prevent disease build up
 - Allow to flower once every year to replenish root reserves
- Prefers temperatures over 10°C, soil pH of at least 6.2 and a good P & K supply.
- Deep taproot for drought tolerance and soil stability.
- Fixes up to 200kg N/ha/annum dependant on soil and climatic conditions.
- **CAUTION** Breeding sheep should not consume red clover 6 weeks before tupping until 6 weeks after due to phyto-estrogens.
- Red clover is not suitable for overseeding.
- Sow at 2 – 3kg/acre. Available in 5kg or 25kg pack sizes.



Chicory

A high protein forage herb with good leaf digestibility. Best suited to grazing and can be utilised by dairy, beef or sheep.

- Yields up to 12t DM/ha, 18% average protein content and high in minerals.
- Chicory does not fix nitrogen so must be sown with a legume or requires 30-40kg N/ha. Sow when soils are 10°C or higher.
- Chicory has been shown to result in reduced egg count and adult abomasal worm numbers in lambs.
- Deep tap root gives exceptional drought tolerance and can help to maintain good soil structure.
- Grows from a crown which must be carefully managed to ensure persistency. Graze when plants reach 20cm and do not graze below 5cm. Typical rotations will be 28 – 35 days dependant on weather and climate.
- An excellent choice for finishing lambs and/or growing on youngstock.
- Limit dry matter intake to 25% of the ration to avoid milk taint in dairy cows.
- Do not allow to bolt as the stems are very woody and unpalatable.
- Not ideal for oversowing
- Sow at 0.75kg/acre in a grass mixture or 3kg/acre as a pure stand. Available in 5kg or 25kg pack sizes.



Plantain

A perennial forage herb, high in protein and minerals, which is best suited to grazing and can be utilised by dairy beef or sheep.

- Plantain can produce up to 12t DM/ha and is higher in minerals than grass alone, particularly calcium, copper and selenium, and an average protein content of 14%.
- Plantain does not fix nitrogen so must be sown with a legume e.g. red clover, or sown with 70kg N/ha. Sow when soils are 10°C or higher.
- A very deep tap gives exceptional drought tolerance and summer growth potential in low rainfall areas. The deep tap root can help to maintain good soil structure.
- Tolerant of a wide range of soil conditions but does not tolerate waterlogging. Frost tolerant.
- Graze when the plants reach 25cm and do not graze below 5cm. Typical rotations will be 28 – 35 days for this species dependant on weather conditions and growth rates.
- An excellent choice for finishing lambs or growing on youngstock.
- To avoid milk taint in dairy cows, limit dry matter intake to 25% of the ration.
- Sow at 0.75kg/acre in a grass mixture or 3-4kg/acre as a pure stand. Available in 5kg or 25kg pack sizes.



Stewardship and Environmental Options

GS4: Legume & Herb-Rich Swards

Grasswise Legume and Herb Cut

A multispecies grass, legume, herb and wildflower mixture suitable for silage production within the confines of GS4 environmental option. This mixture can also be grazed if required. Deep rooting species support soil structure and range of legumes included for nitrogen fixation.

4.25kg	Perennial Ryegrass
1.00kg	Festulolium
1.50kg	Tall Fescue
1.00kg	Smooth Stalked Meadow Grass
0.75kg	Timothy
1.80kg	Red Clover Blend
1.00kg	Lucerne
0.15kg	Alsike Clover
0.20kg	Birdsfoot Trefoil
0.20kg	Plantain
0.05kg	Salad Burnett
0.05kg	Yarrow
0.05kg	Sheeps Parsley

12kg Pack
12kg per acre

Grasswise Legume and Herb Graze

A multispecies grass, legume, and herb mixture better suited for where most emphasis on grazing is required within the confines of GS4 environmental option. A broad range of species and root types aids healthy soil structure, water infiltration and nutrient utilisation with N supplied by a broad range of legumes.

3.40kg	Perennial Ryegrass
2.25kg	Tall Fescue
0.75kg	Cocksfoot
1.00kg	Meadow Fescue
1.00kg	Timothy
1.00kg	Red Clover Blend
0.40kg	Alsike Clover
0.20kg	White Clover Blend
0.35kg	Birdsfoot Trefoil
0.85kg	Sainfoin
0.35kg	Plantain
0.05kg	Sheeps Parsley
0.05kg	Salad Burnett
0.35kg	Chicory

12kg Pack
12kg per acre

*Correct at time of print. Mixtures subject to change in response to governmental updates.
FULL GUIDANCE: www.gov.uk/countryside-stewardship-grants/legume-and-herb-rich-swards-gs4



Sustainable Farming Incentive (SFI)

The SFI Improved Grassland Soil Standard aims to improve soil structure and organic matter content, promote better water quality and improve grassland and soil biodiversity which altogether, can improve resilience to changing climates. Sowing mixtures with a broad range of root structures promotes soil health and the inclusion of legumes, reduces the need for artificial Nitrogen application.

Grasswise SFI Reseeding

For establishing a new ley.

5.50kg	Perennial Ryegrass
0.50kg	Timothy
1.35kg	Tall Fescue
0.75kg	Meadow fescue
0.75kg	Smooth Stalked Meadow Grass
1.20kg	Red Clover Blend
0.50kg	Alsike Clover
0.25kg	White Clover Blend
0.40kg	Birdsfoot Trefoil
0.80kg	Herb Blend - Chicory, Plantain, Yarrow, Sheeps Parsley, Salad Burnett

12kg Pack
12kg per acre

*For best results, this is the preferred option.

*Correct at time of print. Mixtures subject to change in response to governmental updates.
FULL GUIDANCE: www.gov.uk/government/publications/sustainable-farming-incentive-full-guidance

AB15 Two Year Sown Legume Fallow

A 100% legume sward providing a rich source of pollen and nectar for pollinators and food for insects and farmland birds. This option can be used as part of a blackgrass control schedule and can also be established with certain grasses to reduce weed burdens.

Grasswise SFI Oversow

For adding to existing grass swards to promote diversity.

1.00kg	Red Clover Blend
0.25kg	White Clover Blend
0.50kg	Alsike Clover
0.25kg	Birdsfoot Trefoil
1.00kg	Herb Blend - Chicory, Plantain, Yarrow, Sheeps Parsley, Salad Burnett

12kg/4 acre Pack
3kg per acre

10%	Alsike Clover
5%	Birdsfoot Trefoil
5%	Black Medick
50%	Vetch
15%	Lucerne
15%	Red Clover Blend

15kg Pack
15 - 20kg per hectare

FULL GUIDANCE: www.gov.uk/countryside-stewardship-grants/two-year-sown-legume-fallow-ab15

Equestrian Hunters Grass Seed

Young, well managed grass can provide most of a horse’s feed requirement. Our mixtures are designed especially for horses. A herb mixture is also available.



Discover our Equine Paddocks Guide for tips and advice to get the best out of your paddock.



General Purpose

Hardwearing general-purpose mixture designed to withstand the pressures of equestrian use and provide good quality grazing for horses.

- Grass varieties used have been specifically selected for roughage and low fructan content
- Produces a good, spring, dense turf
- The low fructan concentration reduces the risk of laminitis
- Strong grass plant rooting system, making the sward dense, hard- wearing and persistent
- Paddock will deliver grazing and forage production
- Yields good levels of effective roughage, ideal for a fit and healthy equine gut

70%	Perennial ryegrass
16%	Strong creeping red fescue
8%	Meadow fescue
8%	Timothy

10kg packs
Sows up to 0.7 acre, repairs 1 acre

Traditional Meadow

Formulated to recreate the nutritional characteristics of a natural habitat. The mixture is ryegrass free and uses species with a less aggressive growth habit to aid diversity.

- Swards sown with this mixture are likely to be lower in fructans than a ryegrass sward, reducing the risk of laminitis
- The healthiest pasture for your horse
- Helps prevent laminitis
- Effective fibre in your horse grass
- The optimum grass seed for your horse meadow
- Good horse pasture that can be effectively managed

25%	Tall fescue
25%	Strong creeping red fescue
20%	Meadow fescue
15%	Timothy
15%	Smooth stalked meadowgrass

10kg packs
Sows up to 0.7 acre, repairs 1 acre



Hard Wearing

A hard wearing grass seed blend suitable for creating new lawns or overseeding worn areas.

Designed for fast establishment and natural toughness whilst still being attractive, hard wearing will cope with every day family use from BBQs to football to pets.

50%	Perennial Ryegrass
50%	Strong Creeping Red Fescue

Sowing rate 35g per m²
Oversowing rate 25g per m²

Fine Lawn

A fine, ornamental, non-ryegrass lawn seed with excellent quality grasses that require less maintenance than ryegrass.

Produces a very dense lawn with low fertiliser requirements, excellent disease resistance alongside a high quality appearance.

30%	Chewings Fescue
30%	Strong Creeping Red Fescue
30%	Slender Creeping Red Fescue
10%	Browntop Bent

Sowing rate 30g per m²
Oversowing rate 20g per m²

Sports Pitch

A multi-purpose and hardwearing seed suited to all landscaping applications and playing fields where traffic and wear are at high levels.

The grasses used have rapid establishment and recovery to form a very dense, tough lawn that still remains visually appealing.

80%	Perennial Ryegrass
20%	Strong Creeping Red Fescue

Sowing rate 35g per m²
Oversowing rate 25g per m²



Low Maintenance

A non-ryegrass mixture for landscaping applications where high traffic is not an issue. This mixture will produce an attractive grass which is persistent with good recovery characteristics.

It will also provide excellent stabilisation for embankments alongside good drought tolerance.

35%	Chewings Fescue
30%	Strong Creeping Red Fescue
30%	Slender Creeping Red Fescue
5%	Browntop Bent

Sowing rate 35g per m²
Oversowing rate 25g per m²

Golf and Bowling Greens

A quality mixture which ensures good disease tolerance and winter colour for the renovation of golf and bowling greens.

This traditional blend tolerates mowing down to 4mm for close management of these areas.

80%	Chewings Fescue
20%	Browntop Bent

Sowing rate 30g per m²
Oversowing rate 20g per m²

Cricket Square

A high performing ryegrass blend with rapid establishment and shoot recovery, excellent hardwearing characteristics alongside superior aesthetics.

This mixture is suitable for new establishments, with excellent spring growth, or for renovation even later into the season and will tolerate close mowing whilst maintaining cleanness of cut.

50%	Perennial Ryegrass
40%	Chewings Fescue
10%	Browntop Bent

Sowing rate 30g per m²
Oversowing rate 25g per m²

Brassica and Forage Crops

Brassicas and forage crops are grown widely throughout the UK to support livestock production and there a number of viable options to suits most enterprises. They can produce high yields of high-quality forage that can be fed on farm from early summer through to late winter.

Species	Variety	Pack Size	Sowing Period	Preferred Soil Conditions	Sowing Rate	Fertiliser* * assumes a soil index of 2
Stubble Turnip	Barkant	5kg or 25kg	spring - summer	PH: 6.5 Type: All free draining soils	Precision Drill: n/a Drill: 2kg/acre or 5kg/ha Broadcast: 3kg/acre or 7.5kg/ha	N:P:K: 50:25:50
Forage Rape	Barcoli	10kg or 25kg	May - end of August	PH: 6-6.5 Type: Most types	Precision Drill: n/a Drill: 2kg/acre or 5kg/ha Broadcast: 3kg/acre or 7.5kg/ha	N:P:K: 50:25:50
Kale	Caledonian Keeper	5kg or 25kg	Mid April - early July	PH: 6.5 Type: Medium Loam	Precision Drill: 750g/acre or 1850g/ha Drill: 1-2kg/acre or 2.5-5kg/ha Broadcast: 3kg/acre or 7.5kg/ha	N:P:K: 75:50:50
Swedes	Lomand Marion Invitation	Grade H - 500g, Natural seed 1kg	April - June	PH: 6.5 Type: Most free draining soils	Precision Drill: 250 - 350g/acre or 600 - 850g/ha Drill: 2kg/acre or 5kg/ha Broadcast: n/a	N:P:K: 25:75:60
Fodder Beet	Feldherr Robbos Blaze	50,000 seeds	April	PH: 6.5 - 7 Type: Light - medium, free draining soil	Precision Drill: n/a Drill: 50,000 seeds/acre or 123,500 seeds/ha Broadcast: n/a	N:P:K: 75:50:75

As well as being a feed substitute to grass, brassicas can act as a break crop during reseeding, help reduce weed, pest and disease levels and create better soil conditions and cleaner seedbeds for establishing new grass leys.

Harvest	Yield	Dry Matter%	D Value	Average Crude Protein	Average ME	Feeding
Matures in 60 - 90 days after sowing	Fresh Weight: 38 - 40t/ha Dry Matter: 3.5 - 4t/ha	8 - 9 %	68D	17 - 18%	11 MJ/kg DM	Graze in situ
Matures in 90 - 110 days after sowing	Fresh Weight: 24 - 35 t/ha Dry Matter: 3.5t/ha	12% - 14%	65D	19% - 20%	10-11 MJ/kg DM	Graze in situ
November - March	Fresh Weight: 60 - 65 t/ha Dry Matter: 8 - 10 t/ha	14% - 16%	68D	16% - 17%	10-11 MJ/kg DM	Graze in situ
November - March	Fresh Weight: 70 - 80t/ha Dry Matter: 9 - 13t/h	9% - 13%	82D	10% - 11%	12.8 - 13.1 MJ/kg DM	Graze in situ or lifted
October/ November	Fresh Weight: 80 90t/ha Dry Matter: 13 - 15t/ha	13 - 21%	78D	12% - 13%	13 MJ/kg DM	Graze in situ or lifted



Brassica Seed Mixtures

Sheep Graze

A practical alternative to swedes or main crop kale, Sheep Graze is ideal for finishing lambs or for winter keep with good protein contents reducing the reliance on bought in concentrates.

Best sown by the end of July, Sheep Graze is an ideal break crop between grass crops and is economic to grow.

It can be sown and utilised earlier in the season or used as winter keep and a break crop before a spring reseed.

3.00kg	Forage Rape
0.25kg	Stubble Turnip
0.75kg	Kale

Supplied in 12kg Pack
Sowing rate: 4kg/acre

Catch Crop sheep feed

Designed to be drilled into cereal stubbles after harvest, this mixture is a quick growing catch crop ideal for finishing lambs or flushing ewes, over the late autumn early winter period.

This can be a useful break crop in an arable rotation to return organic matter into the soil and provide some soil cover.

If it is broadcast rather than drilled onto the stubble, increase the seed rate to 4.5kg per acre.

Includes a small volume of grass for fibre and cleanliness of grazing stock.

1.80kg	Forage Rape
1.00kg	Stubble Turnip
0.20kg	Perennial Ryegrass

Supplied in 12kg Pack
Sowing rate: 3kg/acre

Note

It is important to remember that when feeding brassica to livestock, ensure there is always a mineral and roughage source available alongside the brassicas. There must always be an area for animals to lie back on too.

Lucerne

A low input, high yielding, high protein forage crop suitable for a variety of soil conditions EXCEPT those prone to water logging. Yield of around 15t DM/ha of 19% - 22% CP can be expected. The deep tap root of Lucerne also brings a high mineral content as well as allowing for a good degree of drought tolerance.

Sowing

Sow from April – August on free draining fields with a pH of 6.0 or above. Seedbeds should be fine but firm and with no underlying compaction issues to prevent rooting which can go as deep as 2 meters.

Growing from a single crown, Lucerne crops must be well managed to maintain the plant population

- Leave a 100cm stubble when silaging
- Avoid trafficking
- Do not graze in wet conditions
- Weed control is paramount at establishment. Consider stale seed bed options.

Autotoxicity – It is not possible to “stitch” Lucerne seed into a failing crop, because old roots when decaying release a chemical, which inhibits germination.

Fertility

Lucerne is capable of fixing around 200 kg N/ha so is generally grown with no bagged N applications.

Phosphate and Potash applications of 50kg at establishment and per cut are recommended although an extra 40kg of Potash should be used at first cut.

Lucerne responds favourably to organic manure and a biannual Sulphur application.

ARTÉMIS

- No 1 on the French list
- Selected for total yield, persistence and seasonal production
- Excellent vigour and regrowth
- Excellent resistance to nematodes
- Yellow Jacket Rhizobia treated - no need for additional seed dressings

Packed in 25kg packs with a recommended sowing rate of 8-10kg/acre.



Game Cover

To improve a return on a shoot, specialist game cover is one of the most cost effective methods. Bird habitats can vary from entirely feed to totally cover, from single year crops to semi-permanent grass based covers.

Top shot

The ideal mix for feed and cover in marginal low fertility areas. Beans are a great alternative for areas where maize cannot be grown and offer an excellent source of feed. Because of its limited cover, beans are an ideal companion for brassicas.

Excellent cover throughout the whole season from kale and rape which forms a canopy of broken heights allowing for easier access. Forage rape is known for its rapid establishment. Triticale helps prevent rabbit damage and provides excellent feed.

14.00kg	SPRING TRITICALE
4.00kg	SPRING BEANS
1.00kg	FORAGE RAPE
1.00kg	KALE

Sowing rate: 20kg/acre

High flyer

An excellent all-round mixture with Triticale, which is regarded as the best cereal crop for game cover situations. Triticale is very resilient against rabbit damage as well as offering excellent feed value. Quinoa is another excellent feed source and can shed huge volumes of high protein seed which is very attractive to pheasants, partridges and farmland birds. Maize offers good levels of cover and standing ability.

14.00kg	SPRING TRITICALE
5.00kg	MAIZE
1.00kg	QUINOA

Sowing rate: 20kg/acre

Wild bird mixture

Wild Bird Mixture combines three seed bearing crops which provide a succession of feed sources for up to two years for both reared game and wild birds.

- Linseed provides rapid establishment and is tolerant of a wide range of soil types.
- Quinoa is a source of high protein seed and capable of producing large volumes.
- Spring triticale reduces the risk of damage by rabbits as well as providing adequate feed.

- Kale provides excellent cover and is an ideal companion for the seed bearing species.

Wild Bird Mixture should be established in the spring and is ideal for field margins and headlands.

Ingredients: Spring Triticale, Quinoa, Kale.

Sowing rate: 20kg/acre. Packed in 1 acre packs.

Kale and quinoa

- Quinoa produces seed heads at the top of the stem which shed steadily throughout the game season.
- Quinoa seed is a highly palatable source of high protein feed.
- Kale gives a winter hardy canopy, much loved by pheasants.

50% Quinoa Blend, 50% untreated Kale. Sow at 6.5kg per acre. Supplied in 20kg packs.

Game Cover

In addition we would be delighted to supply mixtures to specification. Among the straights we have to offer are:

Kale

The classic game cover crop, with better varieties and seed treatments available every year. Kale is a very universal cover crop.

Phacelia

The most buzzing cover crop produces purple flower and pollen to attract insects. Phacelia is an annual but due to high seed drop it leaves sufficient seed to re-grow year on year. Best sown as a mixture, can aid flea beetle control in kales.

Buckwheat

One for the fastest growing cover crops, produces seed in 10 weeks, competes well with weeds. Use in mixtures so it doesn't make game cover wet and heavy.

Hold fast canary grass

Creates a dense, very long-term game cover, good in difficult sowing areas that are bad to sow. Will grow up to 1.5 metres, creating an open tufty cover. Best sown as a straight.

Sorghum

Now well established in the UK, we have learned a lot about this interesting crop. Slow establishing, catching up in the summer, producing cover and feed. With jumbo, regular and dwarf varieties available, sorghum is a very useful crop for cover and feed.

Millet

An ancient crop used for food, now the keeper's friend, as it's so versatile. Millet produces effective cover, high oil, and high energy feed. Early Red and late white varieties available, but better blended together.



Notes

Get in touch

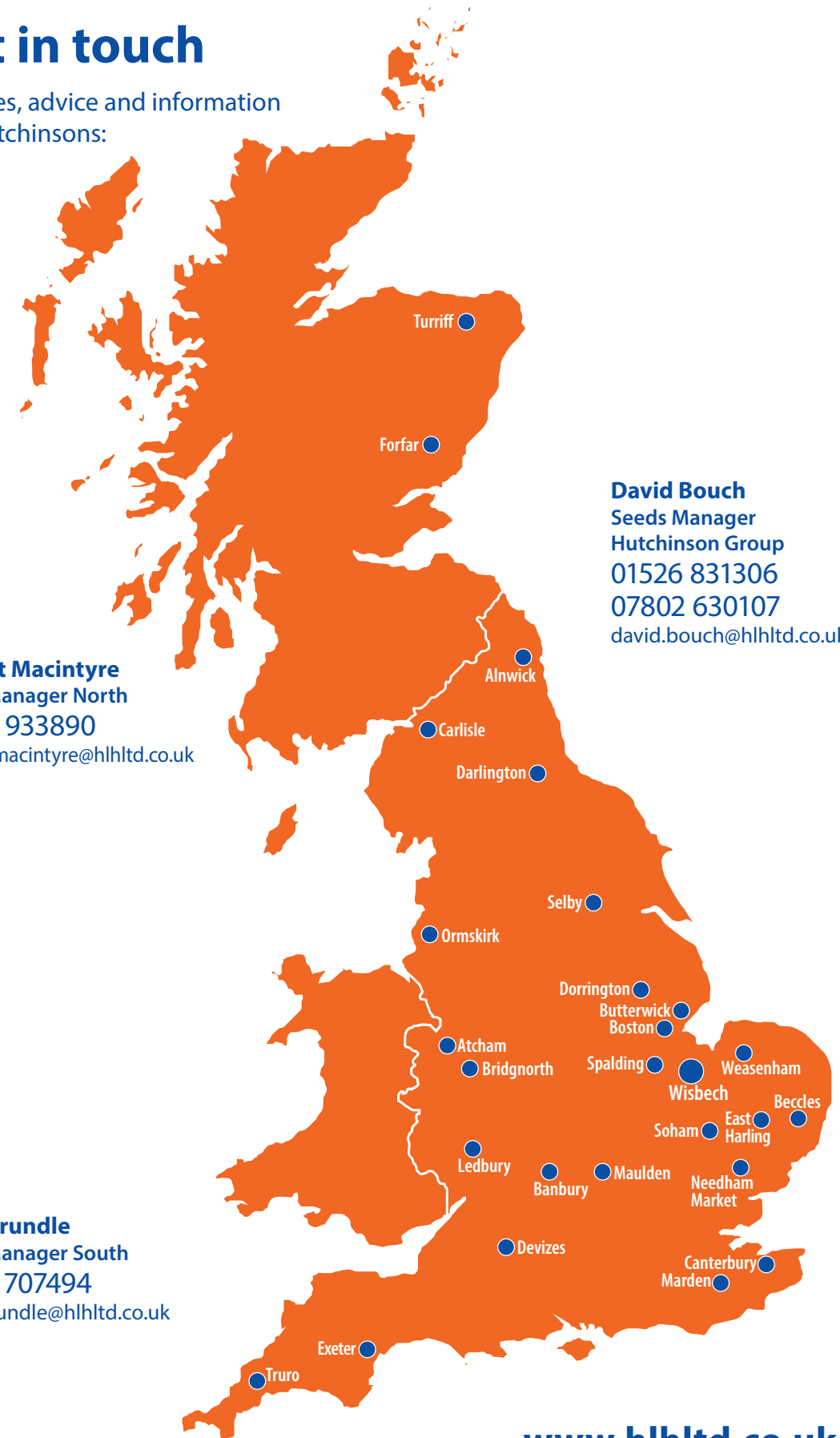
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