

FORAGE SEED GUIDE 2023

- Grass Seed Mixtures Environmental Scheme Options
- Energy Crops Combinable Crops Root & Fodder Crops
- Cover Crop Mixtures Forage Maize Organic Mixtures

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MORETHAN JUST FORAGE SEEDS

Did you know ACT can also supply your combinable crop seeds including:

Oilseed Rape – varieties including conventional variety Acacia, hybrid variety Aurelia and the Clearfield variety Matrix.

Cereals – we can supply a wide range of AHDB Recommended varieties of wheat, barley, oats, triticale and hybrid rye plus peas and beans.



WHO ARE ACT?

Agricultural Central Trading Ltd

ACT are a farmer-owned company supplying essential farm inputs to farmers throughout England, Wales and Scotland. Our considerable buying power coupled with our low operating costs, means that we can pass substantial savings onto farmers on popular branded products as well as those we sell under our own Action label.

In selecting products to meet the needs of our customers, the over-riding aim of ACT is to provide value for money. That means paying close attention to quality as well as price. Every year ACT supplies farmers from Cornwall to the Orkneys with millions of pounds worth of essential inputs.

Call us to discuss your requirements for: Fertilisers, Feeds, Fuel, Seeds, Mineral Supplements, Animal Health Products, Silage Additives, Dairy Chemicals, Lubricating Oils, Silage Polythene/Wrap & Twine, Crop Protection.

Contact your Area Manager or call our Head Office on 01743 216017.

FORAGE SPECIES SELECTION

ACT offer a full range of forage crops suitable for sowing throughout England and Wales.

As an independent company with no ties to any seed house we can select the best species, varieties and mixtures to be sown in a range of situations. It's important to us that all varieties have been tested before we select them for our customers – where possible we like to have seen them in official trials, breeders trials and in farmers own strip trials where we can evaluate their performance.

For example our ACTion range of grass seeds use only top performing varieties on the NIAB lists. This ensures we have confidence in the range of products we supply.

SEED QUALITY

All ACTion seed ley mixtures are of a high standard of purity and germination.

There is a legal minimum standard for all grass and clover seed bought and sold in the United Kingdom.

The UK continues to adopt the European seed regulations, until such time as we have equivalence for seed certification between ourselves and the rest of Europe.

| | | UK Minimum | Actual 2022 |
|-----------|--------|------------|----------------|
| Italian | Purity | 90% | 98.4% |
| Ryegrass | Germ. | 75% | 94% |
| Perennial | Purity | 96% | 99.4% |
| Ryegrass | Germ. | 80% | 92% |

ACT

Germ. = Germination

For many years the UK had its own certification scheme called the Higher Voluntary Standard (HVS).

ACT aims to provide seed of a quality at least as high as HVS and higher wherever possible. The % figures shown in the charts refer to ACT's Grass Seed for 2021.

What does this mean? Quite simply that in ACTion Seed Mixtures you have a higher number of viable seeds per bag, or in other words you get more seeds for your money!

| | Seeds per Bag | Viable Seeds per Bag | Price per kg (£) | Sowing Rate kg/Ac | Price per Ac (£) | Value of Viable Seeds (£) | Value of Unviable Seeds (£) | Difference (Kg) | Difference (£) |
|-----------------------|------------------|-------------------------------|------------------------|-------------------------|------------------------|------------------------------------|-----------------------------------|--------------------|-------------------|
| UK Min. | | | | | | 55.65 | 15.89 | | |
| ACT Actual 2022 | 8.87 | 6.9 | 5.11 | 14 | 71.54 | 65.33 | 6.21 | 1.9kg | 9.74 |

LEGUME FORAGE CROPS

Mixtures of clover varieties have been developed by our breeding partners which satisfy the varying needs of the grower.

- 1. Nitrogen fixing to help reduce fertiliser inputs
- 2. Increase protein content of the forage
- 3. Additional DM vield especially in the summer months

ACT have three white clover and one red clover blends available.

CUTTING BLEND

A large leaved clover blend chosen to compliment Perennial Ryegrass in fast growing swards receiving limited nitrogen. Ideal for cutting and cattle grazing regimes. Varieties used include Dublin, Brianna.

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. This is the default blend used in our mixtures. Varieties used include Rivendell, Merwi, Dublin, Buddy, Brianna.

GRAZING BLEND

As the name implies, the focus is on small and medium leaved white clovers to excel under intensive livestock regimes especially sheep grazing. Varieties used include Rivendell, Merwi, Buddy.

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 it is used in short to medium term ley. Varieties include Amos, Magellan, Global.

ACT MIXTURES WITH RED CLOVER LOOK FOR THE PRO+ LOGO.

To help the drive to reduce inorganic fertiliser use ACT have introduced the PRO+ range of mixtures, which include our longer term cutting mixtures but with 12% red clover.

These mixtures not only result in lower fertiliser costs they can also increase forage dry matter yield and protein content when compared to PRG only options. ExtendaGraze Pro+, SweetGrass Pro+ Quality Cutter Pro+ and our single season short term mixture



LUCERNE

Lucerne performs well on a range of soil types so long as they are free draining and non-acidic at depth. Lucerne is most suited to the in drier areas and lighter soils. Leaf disease can limit yield and quality in high rainfall areas especially at 1st cut.

Establishment - sowing

Lucerne needs to be well established before the onset of winter so sowing in late spring or early summer is ideal. The latest safe sowing date would normally be mid-August. Normally seed comes pre-innoculated.



Sowing options

EcoPasture Pro+.

Whether under sowing or direct seeding, lack of weed control options result in a weeds competing with the establishing Lucerne plants. It is recommended you undertake 'Stale Seedbed' techniques to limit weeds.

Though reliant on adequate soil moisture, Lucerne can be successfully sown after 1st or 2nd cut silage. Sowing following wholecrop cereals is ideal. Avoid sowing post winter barley as a grain crop as there can be problems with volunteer barley smothering the Lucerne before the crop is established.

Normally seed comes pre-inoculated.

Varieties

There are different types of Lucerne the Mediterranean type are not suitable to be grown in Northern Europe as their dormancy is not low enough and so winter hardiness is inappropriate for our colder climate.

The ideal dormancy is at 4.0

WHICH MIXTURE TO CHOOSE?

ACT can supply you with a wide range of grass mixtures for all situations.

Whether it is a short term catch crop to be sown after maize, a medium-term dual purpose cutting and grazing mixture or a long-term grazing mixture, we have the mixture to suit your needs.

We select the best performing varieties for each mixture to ensure that ACT seeds have the right mix of yield, heading dates, density, persistence and rooting potential to ensure you can grow the highest yields of high-quality grass whether its for cutting, for grazing or a combination of each.

We can also supply you with bespoke mixtures of species of your choice to your specifications - using the best performing varieties available from our breeding partner DLF.

Fiber Energy varieties are highly digestible with improved livestock intake and better animal health, producing more meat and milk from grazing and reduced production costs for the farmer.

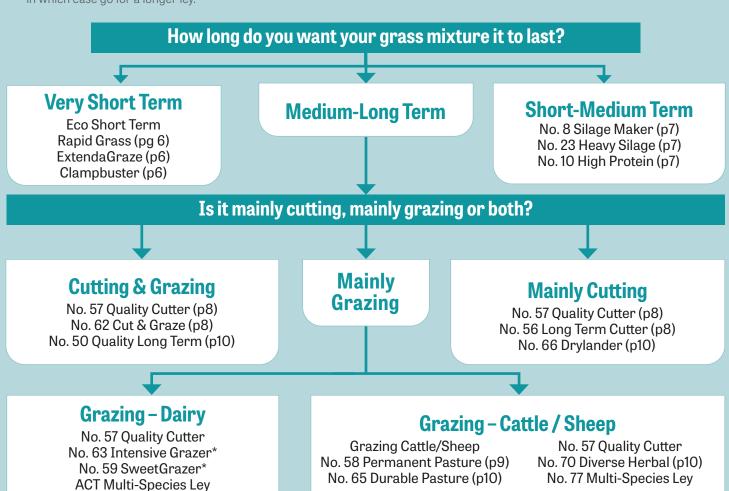


Which mixture should we choose?

This question is best answered by considering the following:

- a. What is the intended utilisation of the crop cutting, grazing or both? Grazing mixtures generally are also good for cutting the reverse is not always true.
- b. How long do I want the mixture to last? Too often we underestimate how long a field will be kept down for in which case go for a longer ley.

Many of our mixtures are available with or without clover depending on your requirements. Alternatively you could consider the clover overseeding mixture to improve an existing sward in which case using a seed mixture of high performing varieties plus a seed treatment that will allow the seeds to establish quicker could be the way to go.



Mixtures available with red clover for additional nitrogen fixing capabilities:

Quality Cutter Pro+ High Protein

*Herbal options available

Pro+SweetGrass Pro+ Eco Short Term

ACTION GRASS AND CLOVER MIXTURES

NO. 77 MULTI-SPECIES LEY

No. 77 Multi-Species Lev is designed to be compatible with several options of the Wales Growing for the Environment schemes which aim to establish a mixed ley, comprising minimum 5 grass species, 3 legume species and 3 herb species.

Contains the requisite species and crucially proportions of grasses - 6kg/ha of PRG and 9kg of 'other grasses' with the total grasses being 15kg/ha.

3 legumes are included for their nitrogen fixing properties, helping to reduce the use of inorganic fertilisers, and the excellent rooting capabilities of red clover. In addition many of the included species have excellent deep rooting helping to improve water uptake for the sward.

The high proportion of 5 herbal plants not only increase dry matter intakes but can also provide abundant foodstuffs for nectar feeding insects and birds.

This ley can be used as a grazing ley in its own right or undersown into spring cereal and protein crops such as a Pea Barley arable silage or spring barley.

Sowing rate of this mixture must be maintained at a minimum of 25kg per hectare to be compliant with the schemes' specifications.





PRG species 6 kg/ha Legumes species 3 kg/ha Other grasses 9 kg/ha Herbal plants 5 kg/ha



| | ACT MULTI SPE | CIES LEY | Kg per ha |
|------|------------------|-------------------|-----------|
| 12% | Bowie (T) | I PRG | 3 |
| 12% | Thegn | L PRG | 3 |
| 11% | Comtal | Timothy | 2.75 |
| 11% | Donata | Cocksfoot | 2.75 |
| 8% | Laura | Meadow Fescue | 2 |
| 6% | Hipast | TF Festulolium | 1.5 |
| 10% | Red Clover Blend | Red Clover | 2.5 |
| 5% | DP Clover Blend | White Clover | 1.25 |
| 3% | Leo | Birdsfoot Trefoil | 0.75 |
| 12% | Sainfoin | | 3 |
| 4% | Tonic | Plantain | 1 |
| 1% | Sheeps Parsley | | 0.25 |
| 1% | Sheeps Burnet | | 0.25 |
| 4% | Choice | Chicory | 1 |
| 100% | 20kgs per bag | | 25 |

PASTURE RESTORER

A carefully balanced blend of varieties to improve swards

ProNitro® is a seed treatment with both fast and slow release nitrogen fertilisers.

It supplies nutrients only to the new seeds and not the established grasses or weeds resulting in stronger, more and competitive new grasses.

- > Our Pasture Restorer seeds are coated with ProNitro® for faster and stronger establishment
- > This replaces the need for additional fertiliser as each seedling receives the extra nutrient and not the established grasses





| Contains | |
|--|------------------------------------|
| With Clover | Without Clover |
| Diwan (T) Hopi (T) Thegn (T) White Clover | Diwan (T) Hopi (T) Thegn (T) |







IPRG 18% LPRG **82**%



SHORT TERM (UP TO 2 YEARS)

EXTENDAGRAZE

Flexible grazing IRG and brassica catch crop

- > A blend of IRG and forage rape
- > Ideal for summer or extended grazing through the autumn
- > Potential for 2+ grazings of forage
- > IRG can be left for overwintering, spring grazing or an early spring cut

EXTENDAGRAZE PRO+

New option containing 10% Crimson clover for increased protein and nitrogen fixing capabilities





Contains

Fox Alamo **Emerald**





IRG **80**% FR 20%



RAPID GRASS SPRINTER

ACTive8[™] **Treated**

A short term forage mixture for high production

- > A blend of Italian and Westerwolds ryegrass
- > Rapidly produces big yields of high-quality forage
- > Use for a short-term solution to forage shortages
- > Ideal mixture to sow before maize in autumn or undersowing into maize

Contains

Westerwold **Italian Ryegrass**









TET 50% WW 50% DIP 50% IRG 50%

CLAMPBUSTER CATCHCROP

Versatile and high production mixture for up to 2 years

- > A blend of diploid and tetraploid Italian Ryegrasses
- > Suitable for a range of short term uses
- > Ideal for post-maize to produce a bumper crop in early spring

Contains

Diploid IRG Tetraploid IRG













IRG 100%

MEDIUM TERM (3-5 YEARS)

NO.8 SILAGE MAKER

Medium term high production ley

ACTive8™ Treated

- > Very high yielding 2/3 year ley with fast spring growth and impressive regrowth
- > Can produce 4/5 cuts per year with fresh yields around 30 tonnes per acre
- > Suitable for use as a grazing ley by all classes of livestock
- > Use to extend the grazing season in very early spring and late autumn

Contains

Alamo Fox Perun Astoncrusader (T) Tetragraze (T)









TET 65%
DIP 35%
OTHER 20%

ACTive8[™]

Treated

NO.10 HIGH PROTEIN

Medium term Red Clover mixture

ACTive8[®]
Treated

- > Blend of Hybrid Ryegrasses, Festulolium and Red Clover
- > Capable of producing high yields of 18% protein forage
- > Requires little or no nitrogen fertiliser
- > Excellent spring growth and quick recovery gives flexibility to take 3 + cuts or several grazings
- Allows flowers to form at least once per season especially before first cut year 1

Contains

Tetragraze (T) Astoncrusader Perseus Red Clover









TET 49% OTHER 30% RC 21%

NO.23 HEAVY SILAGE

3-4 year silage mixture with grazing qualities

- Medium term silage mixture with potential for aftermath grazing into the autumn
- > Designed to give multiple silage cuts per year so perfect for a multi-cut system
- > Inclusion of Hybrid Ryegrass and Festuloliums ensure early spring growth and fast recovery

Contains

Tetragraze (T)
Aston Crusader (T)
Perseus
Lofa
Boyne
Seagoe (T)









OTHER 30%
TET 85%
DIP 15%

ACTive8[™] Seed Treatment for better establishment

ACTive8™ is a natural, bacterial seed treatment which stimulates the embryo into speedier activity, encouraging more vigorous root growth and ultimately,

faster and better plant development.

ACTive8[™]

will help to:

- > improve nutrient absorption
- > speed up crop utilisation
- > increase first cut yield



All our major grass mixtures come ACTive8™ treated as standard.

LONG TERM (6 YEARS PLUS)

NO.57 QUALITY CUTTER

Long term silage mixture capable of producing quality silage

ACTive8[™] Treated

- > Late heading PRG with a tight range of heading dates resulting in reduced seed heads at cutting
- > High performing grass varieties for increased spring and autumn growth
- > Contains 60% high sugar tetraploid PRG
- > Varieties selected for improved density and growth in the shoulders of the season
- > Quality Cutter Pro+ including 10% Red Clover
- > Available with or without White Clover

Contains

Thegn (T) Nashota (T) Zorgue Cavendish White Clover









TET 60%
DIP 40%

LPRG 100%

NO.57 QUALITY CUTTER PRO+

Includes 12% Red Clover



NO.56 LONG TERM CUTTER

Long term silage mixture for multiple cutting



- > Long lasting silage mixture with good spring growth to suit the early silage producer
- > Being 100% intermediate PRG this is the ideal mixture for a multi-cut system where earlier cuts are required
- > Excellent silage fermentation from the high sugar tetraploids which also give palatable aftermath grazing
- > Excellent sward density when aftermath grazing is required

Contains

Nifty Agaska Boyne Seagoe (T) Nolwen (T)









TET **55**%
DIP **45**%

IPRG 100%

GRASS SILAGE ADDITIVES

Silo Action

(Bacterial Silage Enhancer)



The elite bacteria in Silo Action turn grass into silage in just two days, preserving the true protein and maximising energy retention, giving increased animal performance with increased milk yield and additional liveweight gain in beef cattle.

Available in conventional and ULV formulation.

NO.62 CUT & GRAZE

Long term dual purpose

ACTive8™ Treated

- > Reliable long-term dual-purpose mixture
- > Suitable for cutting followed by grazing by all livestock
- > Our most versatile mixture for forage production in both grazing and cutting systems
- > Excellent spring growth and mid-season grazing
- > Available with or without White Clover

Contains

Swan Boyne Seagoe (T) Nolwen (T) Toddington Nashota (T) White Clover









TET 51%
DIP 49%

IPRG **55**%

LONG TERM (6 YEARS PLUS)

NO.59 SWEETGRASS

High sugar mixture for dairy systems

ACTive8[™] **Treated**

- > This high sugar mixture is made up of highly digestible tetraploid varieties suited to both grazing and cutting regimes
- Varieties selected increase grazing yield in the shoulders of the year and maintain summer growth
- > The deeper rooted tetraploid grasses are more tolerant of dry conditions
- > Sweetgrass Pro+ includes 12% Red Clover
- > Available with or without White Clover

Contains

Thegn (T) Nashota (T) **White Clover** Hopi (T)









TET 100% DIP 0%

LPRG 100%

NO.59 SWEETGRASS HERBAL

Herbal option containing Chicory, Plantain and Yarrow

NO₋59 SWEETGRASS PRO+

Includes 12% Red Clover



NO.58 PERMANENT PASTURE

ACTive8™ **Treated**

Dual-purpose mixture ideal for long term beef and sheep production.

- > Long term, dense dual-purpose mixture ideal for long term beef & sheep scenarios
- > It produces good spring growth followed by excellent grazing throughout the summer and into the autumn
- > Ground cover is excellent and so will carry livestock for longer
- > Available with or without White Clover

Contains

Nifty **Bovne** Seagoe (T) Swan **Toddington (T)** Nashota (T) Maxima Comtal **White Clover**









IPRG 48% TET 48% LPRG 40% DIP 52% OTHER 12%

NO.63 INTENSIVE LONG TERM GRAZER

ACTive8 Treated

The ultimate grazing mixture with Timothy

- > High production but dense mixture that will withstand being grazed intensively
- > New varieties increase grazing in the shoulders of the year whilst maintaining summer growth
- > Inclusion of late heading perennial ryegrasses means better midsummer grazing in carefully managed swards
- Available with or without White Clover

Contains

Agaska Cancan **Bowie** Swan Thegn (T) Nashota (T)

Comtal Nifty

White Clover









IPRG 26% LPRG **80**% **TET 30**%

INTENSIVE HERBAL GRAZER

Herbal option containing Chicory, Plantain and Yarrow

NO.71 GALLOWAY LT

Specially formulated for South West Scotland

ACTive8[™] **Treated**

- > No. 71 Galloway Long Term is a true dual-purpose mixture which combines high yields with long-term persistence giving high quality performance for all soil types and climates
- > It has excellent feed for all classes of livestock and the excellent disease resistance results in greater palatability
- > The high yield performance of medium term mixtures but with the persistence of a long term ley

Contains

Bovne Strangford Seagoe **Evocative** Nashota Comtal **White Clover**









DIP 35% OTHER 13%

IPRG 35% LPRG **46**%

SPECIALIST MIXTURES

NO.66 DRYLANDER

ACTive8™ Treated

Struggle to grow enough grass in drier conditions?

- > The ideal mixture for drought prone situations or where nutrient availability is compromised
- > Containing a range of high yielding grasses and clovers selected for their exceptional rooting capabilities
- > Use where soil moisture and nutrients are inherently lower
- > Available with or without Red Clover

Contains

Perseus
Perun
Lofa
Fojtan
Nolwen
Hopi (T)
Tower
Donata
Red Clover









OTHER 70%
TET 22%
RC 8%

NO.65 DURABLE PASTURE

Long term mixture selected to withstand high rainfall and water tables

- Produces a dense and persistent sward that has the potential to withstand harsh conditions longer than most mixtures
- > Includes high performing grass species and clovers for extreme conditions
- > Needs to be well established before ground conditions are waterlogged

Contains

Boyne
Nolwen (T)
Swan
Cavendish
Fojtan
Comtal
Laura
Donata

Ermo

White Clover









TET 13%
DIP 36%
CLOVER 10%
OTHER 41%

NO. 70 DIVERSE HERBAL GS4 LEY

The most productive legume & herb rich mixture

Contains the following requisite species required for GS4:

5 Grasses • 3 Legumes • 5 Herbal Plants

- Designed to be compliant with Diverse Herbal Leys schemes which aim to establish a mixed sward of grasses, legumes, herbs and wildflowers
- > The emphasis on this mixture is to be both compliant and more productive than other purely stewardship type mixtures



| Contains | | | | | |
|--|------------------------------|---|-----------------|---|-------------------------------------|
| 5 Grasses 70% | | 3 Legumes 20% | | 5 Herbal Pla 10% | ants |
| LPRG Festulolium Cocksfoot Timothy Meadow Fescue | 40% 15% 5% 5% 5% | Red Clover Birds Foot Trefoil Alsike Clover | 12% 5% 3% | Plantain Sheep's Burnett Sheep's Parsley Yarrow Oxeye Daisy | 4% 3% 2.73% 0.25% 0.02% |







GRASSES 70% LEGUMES 20% HERBS 10%

NO.37 DOUBLE PROFIT

3-4 year dual purpose ley

- > Early growing, high yielding dual purpose mixture
- > Clover free mixture

Contains

Tetragraze (T) Genesis Boyne Nolwen (T) Twymay (T)









NO.50 LONG TERM

Long term for dual purpose

- Long term dual-purpose mixture with Timothy for cutting and grazing by all classes of livestock
- > Contains White Clover







Contains

Genesis Boyne Nolwen (T) Timing Twymay (T) Rivendel

OTHER MIXTURES

HORSE PASTURE

A hard wearing, persistant sward designed for horses

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

Contains

Cavendish **Bovne** Calvano Maxima Winnetou









HAYLAGE PRO LT

Long term quality haylage with Timothy

Contains

Genesis **Boyne** Agaska Cavendish Winnetou

- > A longer term mixture that produces finer forage than Haylage Pro ST
- > Based on all diploid species and provides high quality haylage or hay for 6+ years

HAYLAGE PLUS ST

A short-term mixture for hay/haylage production

Contains

Perseus Perun Fox **Alamo**

- Quality hay or haylage from diploid IRG and Festuloliums
- > Does not contain Timothy
- > Suitable for hay or haylage cuts followed by grazing for up to 4 vears

ORGANIC LEYS

NO. 1 ORGANIC FERTILITY BUILDER

Organic

- > High yielding 2-3 year ley with a large proportion of Red Clover to enhance DM and protein yields
- > Possibility of taking 1-3 cuts of silage starting at the end of May/early June before aftermath grazing







NO. 2 ORGANIC GRAZING MIXTURE

Medium/long term organic grazing

- > Contains a high percentage of tetraploid giving increased palatability and drought tolerance
- > Resultant ley gives medium to long term organic grazing
- > White Clover blend helps to maintain soil fertility







NO. 3 CUTTING MIXTURE

Medium/long term organic grazing

- > Designed to produce high quality silage
- > The varieties chosen have a close range of cutting dates which can produce higher ME levels than general purpose leys
- > Primarily designed for cutting







NO. 4 GENERAL PURPOSE MIXTURE

Quality medium term dual purpose

- > The range of varieties helps provide a successive pattern of growth from early spring into autumn
- > Timothy improves mid-summer production
- > High level of White Clover adds to sward growth and digestibility designed for high quality organic grazing and conservation







MIXTURES FOR COUNTRYSIDE

Stewardship and environmental schemes are taking on a more important role in farm business planning with the ELMS schemes encouraging a wider interest in establishing these crop areas.

Whether you want to use an off the shelf mixture or wish to create a bespoke mixture to your own specifications we have a full range of mixtures and species available for you.

In addition to these mixtures for the Countryside Stewardship schemes ACT are actively involved in planning for the new ELM Scheme so if you are in the pilot schemes, you can be confident we will be in a leading position to supply you with the appropriate mixtures once the details become available.

ACT can supply a full range of seed mixture for all Countryside Stewardship options, some of which are listed below.

AB₁

Nectar Flower Mix

> Establish in blocks or strips between 1 March and 15 September by sowing a grass-free seed mix which contains a minimum of 6 flower species



ACT Nectar Rich Bronze (AB1)





| 40% | Vetch |
|-------|----------------------|
| 30% | Sainfoin |
| 10% | Crimson Clover |
| 6% | Red Clover |
| 5.5% | Lucerne (inoculated) |
| 4% | Isike Clover |
| 2% | Birdsfoot Trefoil |
| 2% | Black Medick |
| 0.25% | Yarrow |
| 0.25% | Black Knapweed (N) |
| | |

AB9

Winter bird food

- > Establish by sowing a seed mix which contains at least 6 seed bearing crops between 15 February and 15 June
- > Re-establish one year mixes annually and two year mixes every other year, to maintain seed production
- Re-sow winter bird plots that fail to establish



ACT Wild Bird Seed 4 (AB9)

1 Year Spring Sown





| 25% | Spring Triticale |
|------|----------------------|
| 24% | Spring Barley |
| 24% | Spring Wheat |
| 7% | Dwarf Sorghum |
| 6% | White Millet |
| 5% | Linseed |
| 3% | Japanese Reed Millet |
| 2.5% | Red Millet |
| 2.5% | Gold of Pleasure |
| 1% | Quinoa |
| | |

AB8

Flower-rich margins and plots

> Establish flower-rich margins and plots by sowing a seed mix which contains a minimum of 4 grass species and 10 flower species between 1 March and 15 September



ACT Wildflower & Grass Rich BGM4 (AB8)

16-20 kg/ha



| 45% | Creeping Red Fescue |
|-------|---------------------|
| 15% | SSMG |
| 15% | Chewings Fescue |
| 15% | Hard Fescue |
| 3.25% | Sainfoin |
| 3% | Vetch |
| 1% | Alsike Clover |
| 1% | Red Clover |
| 0.5% | Birdsfoot Trefoil |
| 0.25% | Oxeye Daisy |
| 0.25% | Plantain |
| 0.25% | Sheeps Burnet |
| 0.25% | Black Knapweed |
| 0.25% | Yarrow |
| | |

STEWARDSHIP SCHEMES

AB15

Two-year sown legume fallow

- > Establish by sowing a seed mix containing a minimum of 6 flower species as soon as possible after harvest and before 15 September, in year 1 and year 3 of your agreement
- > Cut at least twice during the first 12 months after sowing to stop blackgrass heading. You can only cut between 1 March and 31 October
- > Keep until 15 August in the second summer after sowing



ACT Legume Fallow (AB15)

Agreements starting on or after 1st Jan 2021





| 52 % | Vetch | |
|-------------|-----------------------|--|
| 16% | Alsike Clover | |
| 16% | Lucerne (Innoculated) | |

| 10% | Red Clover |
|-----|-------------------|
| 3% | Birdsfoot Trefoil |
| 3% | Black Medick |

AB16

Autumn sown bumblebird mix

> Establish as soon as possible after harvest and before 15 September, in year 1 and year 3 of your agreement by sowing a seed mix containing a minimum of six flower species and six seed-bearing crops, including 3 cereal species



ACT 1 Year Autumn Bumblebird WBA1 (AB16)

40-50 kg/ha



| 25% | Winter Triticale |
|-----|----------------------|
| 25% | Winter Wheat |
| 20% | Winter Barley |
| 6% | Vetch |
| 5% | Fodder Radish |
| 5% | Forage Rape |
| 3% | Gold of Pleasure |
| 3% | Lucerne (inoculated) |
| 2% | Alsike Clover |
| 2% | Birdsfoot Trefoil |
| 2% | Crimson Clover |
| 2% | Red Clover |

ACT 2 Year Autumn Bumblebird WBA2 (AB16)



| 25% | Winter Triticale |
|------|--------------------|
| 20% | Winter Barley |
| 21% | Winter Wheat |
| 8% | Fodder Radish |
| 6% | Vetch |
| 5% | Crimson Clover |
| 5% | Kale |
| 3.4% | Gold Of Pleasure |
| 3% | Lucerne |
| 1% | Birdsfoot Trefoil |
| 1% | Phacelia |
| 1% | Red Clover |
| 0.2% | Black Knapweed (N) |
| 0.2% | Oxeye Daisy |
| 0.2% | Yarrow |
| | |

GS4

Legume and herb-rich swards

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

For this scheme you must:

- > establish a mixed sward of grasses, legumes, herbs and wildflowers
- > make sure the sward has a minimum 10% cover of red clover and has an additional 10% cover of other legumes. herbs and wildflowers

Sward must contain at least 5 species of grass, 3 species of legume (including bird's-foot trefoil) and 5 species of herb or wildflower.



No.70 Diverse Herbal GS4 Ley





| 40% | LPRG | 3% | Alsike Clover |
|-----|--------------------|-------|-----------------|
| 15% | Festulolium | 4% | Plantain |
| 5% | Cocksfoot | 3% | Sheep's Burnett |
| 5% | Timothy | 2.73% | Sheep's Parsley |
| 5% | Meadow Fescue | 0.25% | Yarrow |
| 12% | Red Clover | 0.02% | Oxeye Daisy |
| 5% | Birds Foot Trefoil | | |

WELSH GOVERNMENT GROWING FOR THE ENVIRONMENT SCHEMES

ACT can supply products for the new Growing for the Environment schedules that are both highly productive and compliant.



Option 1

Scheme Options

Establish a mixed ley, comprising minimum 5 grass species, 3 legume species and 3 herb species.

Eligible Crops & Mixtures

ACT No.77 **Multi Species Ley** (page 5)

Option 2

Scheme Options

Establish a Red clover or Lucerne lev.

Eligible Crops & Mixtures

ACT No.10 High Protein (page 5) ٥r **ACT Red Clover Blend** (page 3)

Option 3

Scheme Options

Establish and harvest a protein crop with no weed control.

Eligible Crops & Mixtures

Field beans, peas, lupins. (page 17)

Option 4

Scheme Options

Establish unsprayed root or forage crop.

Eligible Crops & Mixtures

Swedes, Fodder beet, White turnips, Soft yellow turnips Hardy yellow turnips, Brassicas, Forage rape, Chicory. (page 20)

Option 5

Scheme Options

Establish an unsprayed. spring-sown cereal crop. under sown

Option 6

Scheme Options

As Option 5 undersown with a mixed ley seed mixture.

Eliqible Crops & Mixtures

Spring cereals (page 17) **PLUS** Option 6 No. 77 Multi Species Ley (page 5)

Option 7

Scheme Options

Establish an unsprayed. spring-sown 50:50 cereal /protein crop mix.

Option 8

Scheme Options

As Option 7 undersown with a mixed Ley seed mixture.

Eliqible Crops & Mixtures

ACT No. 4 Arable Silage (page 17) **PLUS** Option 8 No.77 Multi Species Ley (page 5)

SOIL NUTRITION

Adequate soil nutrient and pH levels are vital to help establish any crops. The target level for soil pH for grassland is 6-6.5 whilst for other crops its 6.5. Even a modest result below these levels can severely impact the nutrient availability to the crop.

As an example, a pH level of 6.5 achieves 100% availability of Nitrogen (N), Phosphate (P) and Potassium (K). However, a pH level of 6 only achieves 85% N, 82% P and 100% K availability and dropping the pH further to 5.5 the results are 70% N, 65% P, 80% K.

Having adequate P levels from soil samples of 2 or above are required for most crops to ensure there is enough P to aid establishment. Similarly, K levels of 2 plus are also required. A detailed broad spectrum soil sample will provide a detailed analysis of soil nutrients to help ensure the correct nutrients are applied.

We are able to offer granulated liming products which provide cost effective and quick acting pH correction which can be applied through a conventional fertiliser spreader.

Calcifert Lime Ideal for reseeding



Calcifert Lime is a highly-reactive, granulated lime product that is easy to apply with existing farm equipment. When applied to the seedbed, Calcifert Lime will optimise pH in the rooting zone, making the soil phosphorus more available to the plant helping to ensure good germination and plant development.

Apply Calcifert Lime to optimise soil pH and ensure the availability and efficiency of nutrients in the soil and applied fertiliser.

Give your grass reseeding the best possible start.

Calcifert | \$\sigma LKAB

FODDER & ENERGY BEET

FODDER & ENERGY BEET SOWING INFORMATION

| Optimum Sowing Period | Late March - End April | | | | |
|---|---|---|--|----------------------------|-----------------------------------|
| Precision Drill | 100,000 seeds/ha 45,000 seeds/acre | | | | |
| Pack Size | 50,000 seed unit | | | 7 | |
| | | Low Dry Matter % | Medium Dry Matter % | High Dry Matter % | Very High Dry Matter % |
| Dry Matter of | Root | 11-13 | 14 -16 | 17 – 20 | 20-23 |
| | | | | | |
| % Root in Gro | und | 40 - 50 | 55 - 65 | 65 - 75 | 75+ |
| % Root in Gro Variety | und | 40 - 50 Feldherr, Jamon | 55 - 65 Bangor, Blaze, Robbos | 65 - 75 Enermax, Magnum | 75+ Brick, Tadorne |
| Variety | und sation method | | | | |
| Variety | | Feldherr, Jamon | Bangor, Blaze, Robbos | Enermax, Magnum | Brick, Tadorne |
| Variety Harvest/Utili | sation method | Feldherr, Jamon Graze or Hand Lift | Bangor, Blaze, Robbos Graze or Lift | Enermax, Magnum Lift | Brick, Tadorne Lift |
| Variety Harvest/Utili Feeding | sation method | Feldherr, Jamon Graze or Hand Lift | Bangor, Blaze, Robbos Graze or Lift | Enermax, Magnum Lift | Brick, Tadorne Lift Chopped |
| Variety Harvest/Utili Feeding Dry Matter Yi | sation method eld | Feldherr, Jamon Graze or Hand Lift Whole or Chopped | Bangor, Blaze, Robbos Graze or Lift | Enermax, Magnum Lift | Brick, Tadorne Lift Chopped |

Low - Medium Dry Matter Beet (11-13% DM)

These beet are very low dry matter but very high fresh yields and can be grazed or lifted & fed.

| and can be grazed or inted a red. | | |
|---|--|--|
| Feldherr | Jamon | |
| > One of the highest yielding fresh weights from a fodder beet. Ideal for sheep or cattle | > Orange rooted, consistent performer with good disease and bolting resistance. Large amount of leaf allowing for easy top lifting | |



Medium Dry Matter Varieties (14-17% DM)

Often considered to be lift or graze varieties – ideal for a dairy or cattle grazing. They have uniform sized beet and so are suitable for machine lifting or grazing in situ depending on the system.

| Bangor (Force Treated) | Robbos (Force Treated) | Blaze (Force Treated) | |
|--|---|---|--|
| > New yellow skinned beet with high yields. High proportion of beet above ground and has very uniform smooth beet making it a very flexible grazing and lifting type | Robbos is ideally suited for first time fodder beet growers Clean yellow roots are easily harvested. Available with primed seed | Blaze has the potential to produce excellent dry matter yields with very clean, bright red roots Low dirt contamination ensures high intakes | |

High Dry Matter Varieties (18-23%DM)

Also known as Energy Beet so ideal for AD use but also lifting and transporting/selling. They have uniform sized beet which are 70% in the soil so only suitable for machine lifting

| | | , | |
|--|---|--|---|
| Enermax | Magnum | Tadorne LG (Force Treated) | Brick (Force Treated) |
| High yielding with a low dirt tare. Enermax has a clean, white, smooth-skinned root Shallow rooting resulting in cleaner roots, particularly important for dairy Rhizomania tolerant | Remains a popular choice as it's a consistent performer Uniform sized, white-roots of high DM content Good resistance to rust | A white rooted variety Bred especially for AD, with very excellent DM yields High DM content reduces clamp losses & enables the beet to be stored for longer Rhizomania resistant | High yielding variety for growers looking to produce a high-quality feed with a higher DM content % Brick is a true fodder beet that delivers very high dry matter yields Rhizomania tolerant |

MAIZE AGRONOMY

UNDERSOWING OF MAIZE WITH GRASSES

Undersowing of grass early after maize establishment gives an opportunity for a short-term forage crop to help extend the forage platform and to help build resilience into your soil and help reduce the risk of soil erosion.

Recommended sowing information

Sowing rates are much less than a reseed as you are not sowing the whole area and do not need the same high ground coverage.



| Maize Stage | Sowing Rate | Mixture | Species |
|-------------|-------------|----------------|-------------------------------|
| 4 leaves | 4-6kg/ha | ACT AfterMaize | Italian Ryegrass |
| 6 leaves | 4-6kg/ha | ACT RapidGrass | Westerwold / Italian Ryegrass |
| 8 leaves | 6-8kg/ha | ACT TerraMaize | Festuloliums & IRG |



BENEFITS OF UNDERSOWING

1 - Good environmental practice

Undersowing maize crops with grass helps prevent soil erosion and the loss of valuable nutrients over the winter months.

Established undercover biomass will help improve ground conditions in a wet harvest.

2 - Optimising land for extra production

An under sown crop of grass can be grazed by livestock over the winter.

There is the chance it could be cut for silage the following spring depending upon the soil conditions.

USE OF STARTER FERTILISERS IN MAIZE

Starter fertilisers offer many advantages. Phosphate is essential for seed germination and establishment. It is not mobile in the soil solution and therefore needs placing next to the seed. This helps to develop root mass so that the plant can then find the other soil nutrients that result in optimum yield ie. potassium and nitrogen.

More efficient use the nutrients in starter fertilisers benefits the environment through reduced risk of leaching.

Protect your P and apply 50% less

Maxi-Maize is a unique maize starter fertiliser from Origin Fertilisers. The phosphate in Maxi-Maize is enhanced with OEP which increases P availability and promotes the early root growth and establishment that are essential in growing maize.

Maxi-Maize is powered by OEP which has produced maize crops with higher dry matter (DM) yield, energy, protein and starch. Maxi-Maize contains MICRO-MATCH boron, manganese and zinc. These essential micro-nutrients all play an important role in the establishment and maturity of maize.

| Fertiliser | Application rate | DM yield difference | Net benefit |
|--------------|------------------|------------------------|-------------------------|
| DAP 46% P205 | 125kg/ha | | Switching to OEP gave a |
| OEP 46% P205 | 62kg/ha | + 0.65t/ha | net benefit of |
| Difference | 63kg/ha | + 0.65t/ha | £159.98 |

Conclusions: 62kg/ha of OEP yielded an average of 0.65 tonnes/ha of DM yield than the standard 125kg/ha rate of DAP



Maxi-Maize = faster root growth and establishment



Maize grown without starter fertiliser.



Maize grown with starter fertiliser.

ARABLE CROPS



MORE THAN JUST FORAGE SEEDS

Did you know ACT can also supply your combinable crop seeds including:

Oilseed Rape – varieties including conventional variety Acacia, hybrid variety Aurelia and the Clearfield variety Matrix.

Cereals – we can supply a wide range of AHDB Recommended varieties of wheat, barley, oats, triticale and hybrid rye plus peas and beans.













SOIL IMPROVING MIXTURES

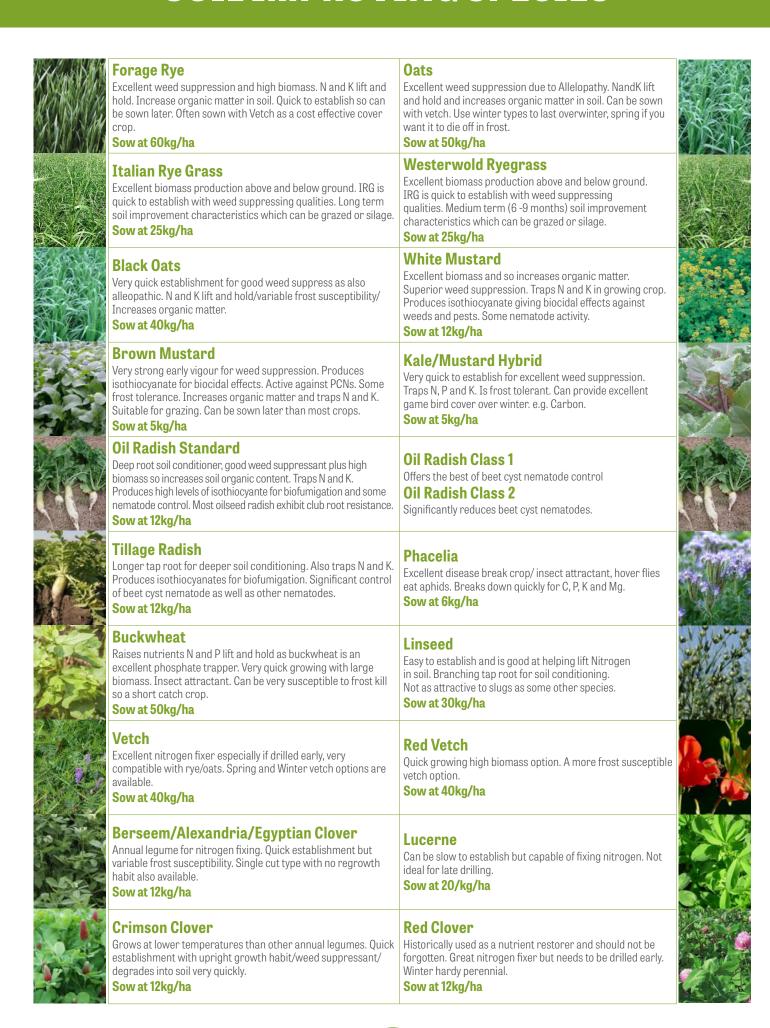




The range of green manure mixtures on this page have been specially formulated to help protect soils as well as improving soil health and fertility.

| Mixture Species | Uses and scenarios |
|---|--|
| Rye + Vetch | Quick to establish and prolific tillering gives excellent winter cover and weed control. The Vetch fixes nitrogen through the life of the crop and Rye holds the nutrients making it available for following crops. Deep rooting habit helps penetrate into tight soils. assive biomass production to increase soil organic matter. Can also be grazed in winter or left for a silage cut in early spring. |
| Rye + Vetch + Mustard | Addition of mustard increases the biomass and autumn ground cover. Excellent winter grazing potential. |
| Rye + Vetch + NEW! Westerwold | This mixture has been introduced to improve the density and ground cover of the cover crops with the addition of Westerwolds. This not only increases the number of species and increases yield, but also improves the quality potential of this high biomass, quick establishing shorter term cover crop. |
| Oats + Vetch | Similar characteristics to Rye + Vetch however can be used where Take-all is an issue. Rapid establishment and very good cover and weed suppressant. |
| Rye + Vetch + Phacelia + Oil Radish | Large biomass for maximum organic matter incorporation potential. This rapidly establishing mixture gives very good weed suppression. Differing rooting depths and growth habits make this a superb cover crop. Grazing potential is also good. |
| Oats + Mustard + Oil Radish + Phacelia | True multi-species mixture with differing rooting depths and growth habits which helps penetrate tight soils. High biomass potential for increasing organic matter production and weed suppressing. |

SOIL IMPROVING SPECIES



WHOLECROP SILAGE MIXTURES

Wholecropped arable silage or 'Wholecrop' can be grown to increase production from forage in several ways that will spread the risk of forage shortages.

It's important to choose the right combination of appropriately maturing crops for your situation – contact us to discuss your options. We can supply a range of mixtures with varying amounts of spring barley or oats and legumes.

Organic version available.

| 60% Barley + 40% Pea | |
|---|-----------|
| A mixture with more emphasion the bulk and starch of bar supported with the protein a starch production of the pear | ley nd |
| Oats + Barley + Peas | |
| A bulky mixture based on a | l |

A bulky mixture based on a barley/oat/pea mixture giving good palatability as well as reasonable protein.

60% Pea + 40% Barley

A more Pea rich mixture designed to produce a bulky crop with a high crude protein content.

50% Pea + 50% Barley **NEW!**

This new option is designed to also be compatible with Welsh Growing for Environment option 7 & 8.



Sowing Date
Sowing Depth
Seed Rate

Mid March to Mid April

3-4 cm

75kg per acre (180kg per ha). If undersowing use 50kg per acre

BENEFITS OF WHOLECROP SILAGE

Wholecrop is an excellent break crop between grass re-seeds giving perfect conditions with little additional cultivations required.

In addition it is a forage crop that can be grown with zero bagged nitrogen being applied, plus leaves residual nitrogen for a following crop.

- > Yields of 12-13 DM tonnes/ha at 45% DM can be expected if you get the crop established well (5 DM tonnes/acre)
- > Fresh weight yields 55 tonnes ha (20 tonnes per acre)
- > Arable silage can be ready to harvest in 12-14 weeks
- > An excellent break crop if you are planning on a full re-seed
- > The addition of peas to the mixture increased protein by 50%
- > Peas supply a potential 70+kg of residual nitrogen per hectare for the following crop
- > Can be undersown with a competitive grass mixture however the wholecrop must be at a reduced sowing rate



WHOLECROP ADDITIVES

Wholecrop silages are a unique challenge for preservatives.

The answer is to treat with **Coolsile Wholecrop Plus** - a unique, dual action preservative/bacterial additive.

Coolsile Wholecrop Plus combines chemical preservative and biological power to give you:

- > Control of yeasts and moulds
- > A cool stable face
- > Increased animal performance with high intakes
- > Reduce wastage

Available in 200L and 1000L IBCs. Apply at just 1 Litre per tonne.

GRAZING BRASSICA CATCH CROPS

MAIN SEASON FORAGE CROPS - SOWING & UTILISATION TIMINGS



ACTOTRACE

Trace element support: Feeding minerals/trace elements helps correct deficiencies in grazing, forages, and straight feeds to maximise health, fertility and performance.

Making a palatable mineral bucket/block available helps to ensure your stock consume the correct daily amount in a controlled way, it also ensures that shy feeders get their chance to 'top up' any deficiencies.

ACTOTRACE cattle or sheep boluses are the perfect option if you have if you are trace element deficient, rectifying deficiencies is essential to peak performance and profitability. Boluses are simple, convenient, cost effective and you know every animal has received the optimum level of trace elements.

Brassicas are typically low in trace elements and you can be missing out on valuable performance benefits

- Copper, Selenium and particularly Iodine all need extra support when grazing brassicas.

If you are feeding brassicas then you really do need to be supporting your stock with a suitable **ACTOLICK** bucket/block or **ACTOTRACE** bolus.



Talk to your ACT area manager for the correct advice and get the most out of your forage.

STUBBLE TURNIPS

The most widely grown of all grazing brassica forage crops with a yield potential over 4 tonnes DM/ha – equivalent to 3500 lamb grazing days per ha. Soil management and nutrition is crucial if you want to achieve the expected results. Sow by mid August to get the maximum growth available.

Hay or straw should be on offer prior to each grazing, particularly in the case of dairy cows and it is advisable to introduce animals to the crop gradually. All seed is untreated.

| SOWING & UTILISATION | | |
|------------------------------------|------------------------|--|
| Dry Matter | 8-9% | |
| Cost per ha | £305/ha (£124/acre) | |
| Cost per tonne utilised dry matter | £66 | |
| Cost per tonne fresh weight | £5 | |

| Drill | 1.0-2.0kg/acre (2.5 - 5kg/ha) |
|--------------------------|---------------------------------------|
| Broadcast | 1.5kg / acre (3.7-6.0kg/ha) |
| Optimum Sowing Period | Mid June-Mid August |
| Utilisation | 80-100 days (Late September-December) |
| Average Dry Matter Yield | 3.5-4.0 tonnes |
| Average Fresh Yields | 38-45 tonnes/ha |



VOLLENDA

Best all rounder variety

- > A highly palatable all rounder suitable for summer, autumn or winter grazing
- > High yields of large pink tankard shaped roots
- > Bolting resistance is good so can be sown spring for summer grazing
- > Untreated seed
- > Pack size 10kg and 25kg



SAMSON

Sweet tetraploid tankard shaped roots

- > Produces large tankard shaped roots which are palatable for cows and sheep
- Shown to be a prefential grazer leading to higher intake and growth rates
- > Untreated seed
- > Pack size 5kg and 25kg



BARKANT

A proven and reliable stubble turnip

- > A very winter hardy turnip
- > High yields of purple tankard shaped roots that is palatable by both sheep and cattle
- > Untreated seed
- > Pack size 10kg and 25kg



DELILAH

Ideal for finishing lambs

- > Huge white tankard shaped bulbs with very high dry matter yields and good root to leaf ratio
- > Disease resistance is very good
- > Untreated seed
- > Pack size 5kg



SKYFALL

A new leafy brassica

- > Bred for fast leafy grazing and is ideal for strip grazing by dairy or beef cattle in the summer months – ideal as a gap filler
- > Regrowth potential, as long as not overgrazed
- > Untreated seed
- > Pack size 5kg



RONDO

The choice for winter grazing

- > A green skinned variety for sheep or cattle
- Leafy habit with excellent disease resistance and so very good for winter grazing up to February
- > Untreated seed
- > Pack size 5kg

FORAGE RAPE - KALE/RAPE HYBRIDS

Rape and hybrids have the advantage of being very fast growing crop suitable for grazing by sheep or cows. Both are an ideal catch crop for boosting mid summer forage production when planted in the spring and are also suitable for fattening lambs in the autumn/winter. Forage rape extends the grazing season in the autumn and is superb for flushing ewes. Ideally strip graze to avoid excessive wastage.

Stock should be transitioned gradually over a two week period and an area of grassland should be available for animals to return to with water and hay or straw should also be made available. All seed is untreated.

| SOWING & UTILISATION | |
|------------------------------------|------------------------|
| Dry Matter | 11-12 % |
| Cost per ha | £408/ha (£166/acre) |
| Cost per tonne utilised dry matter | £107 |
| Cost per tonne fresh weight | £5 |

| Drill | 1.0-2.0kg/acre (2.5-5kg/ha) |
|--------------------------|--------------------------------------|
| Broadcast | 1.5kg-2.5kg / acre (3.7-6.0kg/ha |
| Optimum Sowing Period | Mid June-Mid August |
| Utilisation | 80-100 days (Late September-January) |
| Average Dry Matter Yield | 3.5-4.0 tonnes |
| Average Fresh Yields | 24-35 tonnes/ha |



EMERALD

A fast maturing forage rape

- > Ready to graze after 10-12 weeks with good dry matter yields and disease resistance
- > It has very good feeding quality, being high in protein and easily digestible, remaining palatable well into the winter
- > Untreated seed
- > Pack size 10kg and 25kg



INTERVAL

Ideal for finishing lambs

- > Has been proven to grow the highest dry matter yield of rape/kale hybrids which helps to reduce feed costs
- > Very fast establishing and ready to graze in 12 weeks
- > Untreated seed
- > Pack size 5kg and 25kg



RAMPART

High feed quality and grazing flexibility

- > Bred with feed quality enhancements and high yield potential
- > Excellent winter hardiness giving flexibility when grazing crops
- > Untreated seed
- > Pack size 5kg and 25kg



UNICORN

High quality kale/rape hybrid

- > Rape/kale hybrid which can provide palatable forage for autumn and winter grazing
- > Regrowth potential, as long as it is not grazed too tight, providing additional grazing opportunities
- > Untreated seed
- > Pack size 5kg and 25kg



HOBSON

Ideal for finishing lambs

- > Fully proven on livestock farms throughout the UK
- > Ideal for finishing lambs with good winter-hardiness and disease resistance
- > Untreated seed
- > Pack size 5kg and 25kg



SPITFIRE

Versatile kale/rape hybrid

- > A good companion to use with other fast establishing brassicas
- > Rapid growing brassica that can be used as a rescue or catch crop. Can also provide good cover for holding, driving & feeding game birds
- > Untreated seed
- > Pack size 10kg and 25kg



REDSTART

Rapidly establishing catch crop

- > Rapidly establishes and can be ready for grazing in 8 weeks to mature
- > High quality with good yields and the potential for multi grazings
- > Untreated seed
- > Pack size 5kg and 25kg



SWIFT

Widely grown Kale/Rape hybrid

- > Has extra vigour & winter hardiness, which is ideal for late sowing and is suitable for multigrazing
- > Can be used for game cover
- > Do not sow too early to reduce bolting risk
- > Untreated seed
- > Pack size 5kg and 25kg

GRAZING BRASSICA MIXTURES

The most widely grown of all grazing brassica forage crops with a yield potential over 4 tonnes DM/ha – equivalent to 3500 lamb grazing days per ha. Soil management and nutrition is crucial if you want to achieve the expected results. Sow by mid August to get the maximum growth available.

Hay or straw should be on offer prior to each grazing, particularly in the case of dairy cows and it is advisable to introduce animals to the crop gradually. All seed is untreated.

| SOWING & UTILISATION | | |
|------------------------------------|------------------------|--|
| Dry Matter | 11-12 % | |
| Cost per ha | £408/ha (£166/acre) | |
| Cost per tonne utilised dry matter | £107 | |
| Cost per tonne fresh weight | £5 | |

| Drill | 1.0-2.0kg/acre (2.5-5kg/ha) |
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| Broadcast | 1.5kg-2.5kg / acre (3.7-6.0kg/ha |
| Optimum Sowing Period | Mid June-Mid August |
| Utilisation | 80-100 days (Late September-January) |
| Average Dry Matter Yield | 3.5-4.0 tonnes |
| Average Fresh Yields | 24-35 tonnes/ha |



AUTUMN KFFP

A quality crop with good disease resistance

- > Very fast establishment for autumn use
- > Autumn Keep will produce quality grazing in 10-12 weeks
- > Sow at 2kg per acre
- > Contains:
- 40% Forage Rape
- 20% Stubble Turnip Samson
- 30% Stubble Turnip Rondo
- 10% Kale
- > Untreated seed
- > Pack size 25kg



WINTER GRAZE

A blend of stubble turnips and Forage Rape designed for grazing into the winter

- > Needs to be established by mid August to get the full benefit
- > The forage rape helps protect stubble turnips during a frost
- > Sow at 2kg per acre
- Contains:60% Stubble Turnip35% Forage Rape5% Kale
- > Untreated seed
- > Pack size 5kg



RAPID ROOT

A fast establishing forage rape based catch crop mixture

- > Produces a crop ready for grazing in 12 weeks
- > Stubble turnips maintain the feed once the leafy rape and tops have been grazed
- > Sow at 2kg per acre
- > Contains:
 - 60% Forage Rape
 - 35% Stubble Turnip
 - 5% Kale
- > Untreated seed
- > Pack size 5kg



MEATMAKER

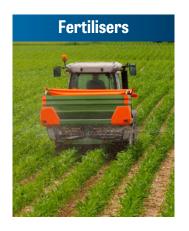
An excellent blend designed to produce autumn or winter keep with minimal effort

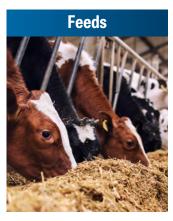
- > The higher inclusion of forage rape helps protect the turnips if crops are to be used later
- > Sow at 2kg per acre
- Contains:65% Forage Rape Rampart25% Stubble Turnip Rondo10% Kale
- > Untreated seed
- > Pack size 2kg

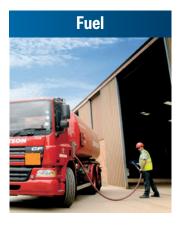
ACTION

FORAGE SEED GUIDE 2023

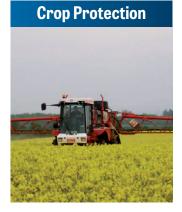
Your farming supplies people



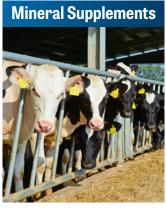


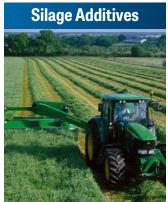


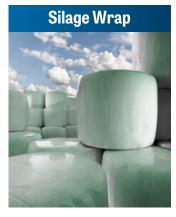




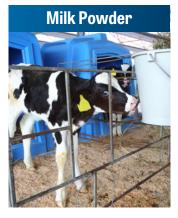
















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