



FORAGE SEED GUIDE 2022

- Grass Seed Mixtures • Forage Maize
- Organic Mixtures • Energy Crops • Combinable Crops
- Root & Fodder Crops • Cover Crop Mixtures

Contents

Legume forage crops	3
Which mixture to choose?	4
Action grass and clover mixtures	5
Short term (up to 2 years)	6
Medium term (3-5 years)	7
Long term (6 years plus)	9
Specialist mixtures	10
Other mixtures	11
Organic Leys	11
Mixtures for Countryside Stewardship and Elm schemes	12-13
Arable crops	14
Green manuring mixes	14
Green manur/cover crop species	15
Maize varieties for 2022	16
Maize agronomy	17
Fodder & energy beet	18
Wholecrop silage mixtures	19
Grazing brassica catch crops	20
Stubble turnips	21
Forage rape - kale/rape hybrids	22
Grazing brassica mixtures	23

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.



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 us at our Shrewsbury Office 01743 762700.

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.

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!

		UK Minimum	ACT Actual
Italian Ryegrass	Purity	96%	98.3%
	Germ.	75%	92%
Perennial Ryegrass	Purity	96%	99.4%
	Germ.	80%	93%

Germ. = Germination

	Mixture seed count (m)/pack	Viable seeds (m) per pack	Price per kg	Sowing rate kg	Price per acre	Value viable seeds	Value of unviable seeds	Difference kg	Difference £
UK Min.	10.75	8.37				£53.62	£15.26		
ACT Actual 2021	10.75	9.82	£4.92	14	£68.88	£62.93	£5.95	1.89kg	-£9.31

LEGUME FORAGE CROPS

In recent years there has been a resurgence in growing legumes including White and Red Clover and Lucerne as forages for the additional benefits in yield, protein content, low nitrogen use, drought tolerance and improved soil structure. They are particularly suited to the drier areas of the UK.

ACTION WHITE CLOVER

White clover is available in most of our ACTION grass mixtures for nitrogen fixing, increased protein and additional forage.



Benefits

RIVENDELL a small-leaved very persistent variety. It has short rhizomes and short leaf growth, which makes it suitable for both cattle and sheep.

BUDDY very well suited for grazing due to its high persistence under hard defoliation - much better tolerance than normally seen for a variety with such leaf size.

DUBLIN an intermediate type adapted for both hard and light defoliation. The total dry matter yield is one of the best.

VIOLIN fits perfectly in mixtures for regions with milder winters. The high yield in the 3rd year proves its superior persistency.

BRIANNA The largest leaved white clover on the RL. Especially suited to cutting and cattle grazing with good tolerance of hard (sheep) grazing for its leaf size.

ACTION RED CLOVER BLEND

A equal blend of the varieties **Amos, Magellan** and **Sangria**.

AMOS

A tetraploid red clover with high protein % and very good 1st cut DM yields in the 1st harvest year with good ground cover.

MAGELLAN

Tetraploid red clover that has high total annual yields combined with excellent protein content. It is noted for its outstanding total DM yields and ground cover.

SANGRIA

Excellent total yields throughout the year especially first cut. Good resistance overall and especially to Sclerotinia giving it great persistence.



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 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-innucleated.



Sowing options

Whether under sowing or direct seeding, lack of weed control options result in 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 (grown as a grain crop) as there can be problems with volunteer barley smothering the Lucerne before the crop is established.

Normally seed comes pre-innucleated.

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 insufficient 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.



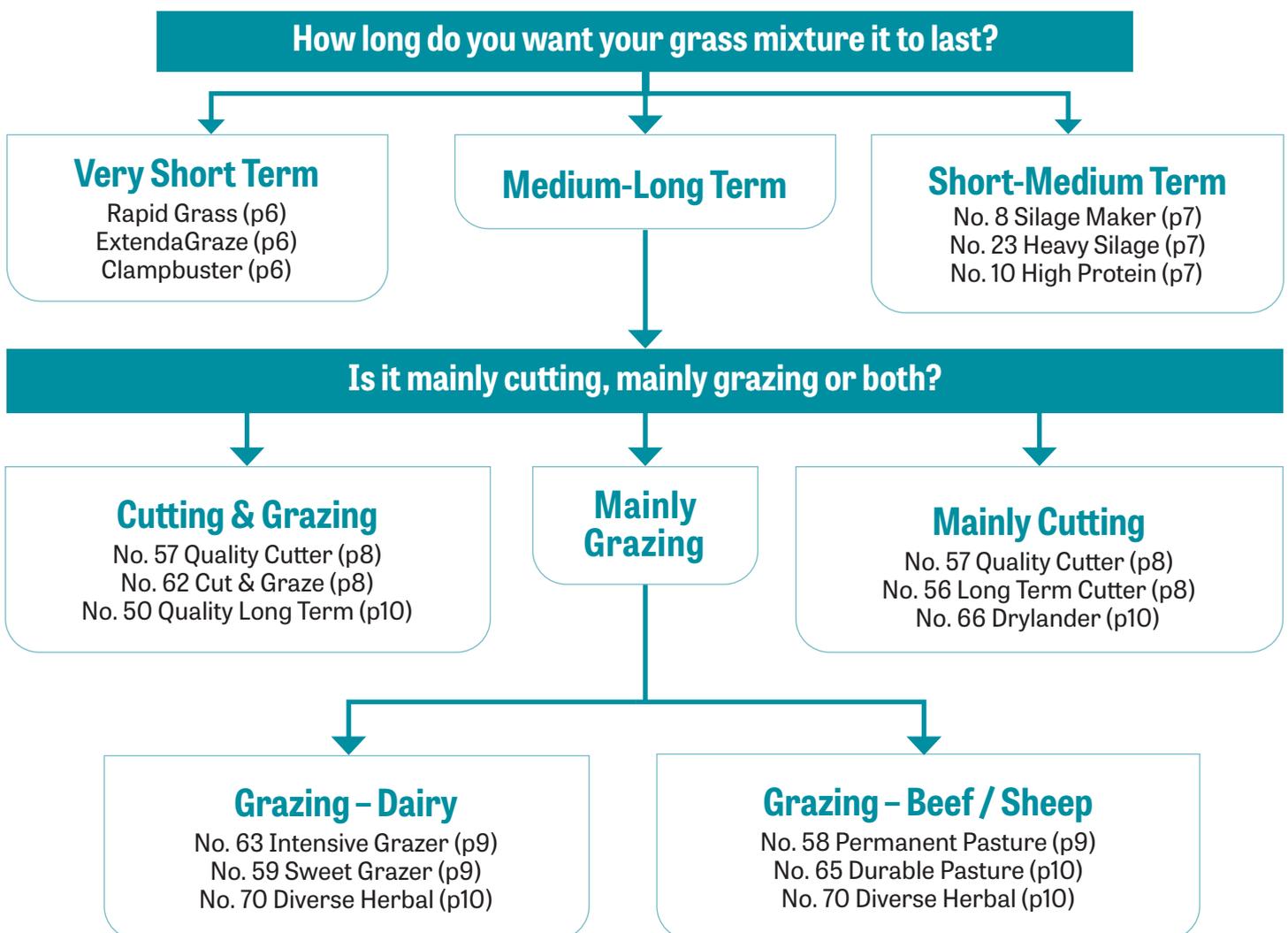
All new varieties are now tested for feeding quality, and those showing high digestibility are marked with the Fiber Energy logo.

Which mixture should we choose?

This question is best answered by considering the following:

- 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.
- 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.



Mixed Herbal Grazing Options

Herbs can be added to any grass mixture

ACTION GRASS AND CLOVER MIXTURES

We strive to offer you the best available varieties within the ACT Action Mixture range, and we are delighted to introduce several new high performing perennial ryegrasses into our mixtures:

NIFTY

Dense variety with exceptional grazing yield

Nifty is recommended throughout the UK. Superb grazing and exceptionally dense variety.

Nifty is very high yielding under grazing and has excellent mid and late season growth.



TRIWARWIC (t)

High sugar variety

A true cutting and grazing variety that gives you good grazing performance but also gives excellent cutting yields of highly digestible high ME grass.

Classed as a High Energy and high sugar variety. Very good disease ratings especially for crown rust at 8.2. High Fibre Energy variety.



NASHOTA (t)

Very dense & high performing variety

Good early spring growth under grazing and good quality, especially at the first conservation cut. Nashota has exceptional ground cover for a tetraploid – greater than 50% of diploids in this group.

Has performed very well in Teagasc PPI trials.



BOWIE

Exceptionally dense grazing variety

Bowie has the attributes of an excellent grazing grass variety, with high digestible yields. It has a very late heading date meaning very few seed heads will be seen in mid-summer and can extend the grazing season in the late autumn. Bowie also has exception persistence and ground cover.



SWAN

Exclusive to ACT - you won't find Swan in any other mixtures!

Swan is an all-round variety. It is very persistent, and so remains weed free for longer.

Swan has a very good rust resistance and so remains palatable resulting in higher intakes.



THEGN (t)

Good under grazing, and good quality silage

New in 2020, Thegn displays excellent grazing yields and D value with exceptional late summer and autumn growth.



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, 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

Nifty
Triwarwic (t)
Alfonso (t)
Thegn (t)
White Clover

Without Clover

Nifty
Triwarwic (t)
Alfonso (t)
Thegn (t)



TET 82%
DIP 18%

IPRG 18%
LPRG 82%

ProNitro®
READY TO GROW

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 the 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



10 kg/acre 25 kg/ha

20 kg

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



1100 seeds/m²

12.5 kg/acre 30 kg/ha

20 kg

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



1370 seeds/m²

12.5 kg/acre 30 kg/ha

20 kg

TET 50% DIP 50%
IRG 100%

MEDIUM TERM (3-5 YEARS)

NO.8 SILAGE MAKER

Short 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
Cazzano (t)
Perun
Astoncrusader (t)
Tetragraze (t)



994
seeds/m²

13 32
kg/acre kg/ha

20
kg

TET 65%
DIP 35%
OTHER 20%

NO.10 HIGH PROTEIN

Medium term Red Clover mixture

ACTive8™
Treated

- > Blend of Hybrid Ryegrasses, Festulium 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
- > Allow flowers to form at least once per season - especially before first cut year 1

Contains

Tetragraze (t)
Astoncrusader
Perseus
ACTion Red Clover Blend



948
seeds/m²

12 30
kg/acre kg/ha

20
kg

TET 54%
OTHER 25%
RC 21%

NO.23 HEAVY SILAGE

3-4 year silage mixture with grazing qualities

ACTive8™
Treated

- > Medium term silage mixture with potential for aftermath grazing
- > Designed to give multiple silage cuts per year
- > Inclusion of Hybrid Ryegrass & Festuloliums ensure early spring growth and fast recovery

Contains

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



1023
seeds/m²

14 35
kg/acre kg/ha

20
kg

OTHER 30%
TET 85%
DIP 15%

Calcifert Lime

Ideal for reseedling



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 reseedling the best start this winter.

Calcifert | 

LONG TERM (6 YEARS PLUS)

NO.57 QUALITY CUTTER

Long term silage mixture for producing quality silage

ACTiVe8™
Treated

- > Late heading PRG with the tightest range of heading dates available resulting in reduced seed heads at cutting
- > High performing grass varieties for high spring & autumn growth
- > Contains 60% high sugar tetraploid PRG
- > Varieties selected for improved density and growth in the shoulders of the season
- > Available with or without White Clover

Contains

Swan
Thegn (t)
Nashota (t)
Hurricane(t)
Cavendish
ACTiOn Dual
Purpose White
Clover Blend



1630
seeds/m²

14 35
kg/acre kg/ha

20
kg

TET 60%
DIP 40%

LPRG 100%

NO.56 LONG TERM CUTTER

Long term silage mixture for multiple cutting

ACTiVe8™
Treated

- > Persistent silage mixture with good spring growth to suit the early silage producer
- > 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)



1155
seeds/m²

14 35
kg/acre kg/ha

20
kg

TET 55%
DIP 45%

IPRG 100%

GRASS SILAGE ADDITIVES

Make the most of your
ACT forage with Silo Action:



Silo Action turns grass into silage in just two days preserving the true protein/energy and giving you extra milk from forage and increased live weight gain in beef cattle.

NO.62 CUT & GRAZE

Long term dual purpose

ACTiVe8™
Treated

- > Reliable long-term dual-purpose mixture
- > Suitable for cutting followed by grazing by all classes
- > 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

Boyne
Seagoe (t)
Nolwen (t)
Swan
Nashota (t)
ACTiOn Dual Purpose
White Clover Blend



1495
seeds/m²

14 35
kg/acre kg/ha

20
kg

TET 58%
DIP 36%

IPRG 55%
LPRG 45%

LONG TERM (6 YEARS PLUS)

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
Boyne
Seagoe
Swan
Nashota
Maxima
Comtal
ACTion Dual Purpose
White Clover Blend



2015
seeds/m²

14 kg/acre
35 kg/ha

20 kg

TET 36%
DIP 46%

IPRG 52%
LPRG 42%
TIM 6%

NO.63 INTENSIVE LONG TERM GRAZER

ACTive8™
Treated

The ultimate grazing mixture

- > 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)
ACTion White Clover
Grazing Blend



1841
seeds/m²

14 kg/acre
35 kg/ha

20 kg

TET 34%
DIP 60%

IPRG 20%
LPRG 80%

INTENSIVE HERBAL GRAZER

Herbal option containing Chicory, Plantain and Yarrow

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
- > Available with or without White Clover

Contains

Alfonso (t)
Thegn (t)
Hurricane (t)
Nashota (t)
ACTion White Clover
Grazing Blend



1264
seeds/m²

14 kg/acre
35 kg/ha

20 kg

TET 100%
DIP 0%

LPRG 100%

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.

NO.59 SWEETGRASS HERBAL

Herbal option containing Chicory, Plantain and Yarrow

SPECIALIST MIXTURES

NO.66 DRYLANDER

Struggle to grow enough grass in drier conditions?

ACTive8™
Treated

- > 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 low
- > Available without Red Clover

Contains

Perseus
Perun
Lofa
Fojtan
Nolwen
Hurricane (t)
Tower
Donata
Red Clover Blend



1225
seeds/m²

14 kg/acre
35 kg/ha

20 kg

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
ACTion Dual Purpose White Clover Blend



1230
seeds/m²

14 kg/acre
34 kg/ha

20 kg

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 Plants 10%	
LPRG	40%	Red Clover	12%	Plantain	4%
Festulolium	15%	Birds Foot Trefoil	5%	Sheep's Burnett	3%
Cocksfoot	5%	Alsike Clover	3%	Sheep's Parsley	2.73%
Timothy	5%			Yarrow	0.25%
Meadow Fescue	5%			Oxeye Daisy	0.02%

1927
seeds/m²

12 kg/acre
30 kg/ha

20 kg

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)
Alfonso (t)



1125
seeds/m²

14 kg/acre
32 kg/ha

20 kg

NO.50 LONG TERM

Long term for dual purpose

- > Long term dual-purpose mixture with Timothy for cutting & grazing by all classes of livestock
- > Available with or without White Clover

Contains

Genesis
Boyne
Nolwen (t)
Timing
Alfonso (t)
Rivendel

1445
seeds/m²

14 kg/acre
35 kg/ha

20 kg

OTHER MIXTURES

HORSE PASTURE

A hard wearing, persistent sward designed for horses

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

Contains

Boyne
Timing
Maxima
Winnetou


2590
seeds/m²


14 35
kg/acre kg/ha


10
kg



HAYLAGE PRO LT

Long term quality haylage with Timothy

Contains

Genesis
Boyne
Nifty
Swan
Winnetou

- > A longer term mixture that produces finer forage than Haylage Pro ST
- > Based on all diploid species and therefore 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 years

ORGANIC LEYS

NO. 1 ORGANIC FERTILITY BUILDER

Organic

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


2110
seeds/m²


14 35
kg/acre kg/ha


20
kg

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


2025
seeds/m²


15 37
kg/acre kg/ha


20
kg

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


2020
seeds/m²


15 37
kg/acre kg/ha


20
kg

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


2730
seeds/m²


15 37
kg/acre kg/ha


20
kg

All ACTION organic mixtures contain at least 70% organically produced seed.

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)



35%	Sainfoin
35%	Winter Vetch
8%	Alsike Clover
8%	Crimson Clover
5.4%	Lucerne (Innoculated)
4%	Red Clover
2%	Birdsfoot Trefoil
2%	Black Medick
0.3%	Ag Yarrow
0.3%	Black Knapweed

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 BGM 4 (AB8)



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%	Wild Carrot
0.25%	Yarrow

STEWARDSHIP AND ELM 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%	Winter Vetch	10%	Red Clover
16%	Alsike Clover	3%	Birdsfoot Trefoil
16%	Lucerne (Inoculated)	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)



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 Burnnett
5%	Timothy	2.73%	Sheep's Parsley
5%	Meadow Fescue	0.25%	Yarrow
12%	Red Clover	0.02%	Oxeye Daisy
5%	Birds Foot Trefoil		

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.



GREEN MANURING MIXES



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. Produces a high biomass 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.
Oats + Vetch	Similar characteristics to Rye + Vetch however can be used where Take-all 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 suppression.

GREEN MANURE/COVER CROP SPECIES

	<p>Forage Rye Excellent weed suppression and high biomass. N and K lift and hold. Increase organic matter in soil. Quick to establish so can be sown later. Often sown with Vetch as a cost effective cover crop. Sow at 60kg/ha</p>	<p>Oats Excellent weed suppression due to Allelopathy. NandK lift and hold and increases organic matter in soil. Can be sown with vetch. Use winter types to last overwinter, spring if you want it to die off in frost. Sow at 50kg/ha</p>	
	<p>Italian Rye Grass Excellent biomass production above and below ground. IRG is quick to establish with weed suppressing qualities. Long term soil improvement characteristics which can be grazed or silaged. Sow at 25kg/ha</p>	<p>Westerwold Ryegrass Excellent biomass production above and below ground. IRG is quick to establish with weed suppressing qualities. Medium term (6 -9 months) soil improvement characteristics which can be grazed or silaged. Sow at 25kg/ha</p>	
	<p>Black Oats Very quick establishment for good weed suppression as also allelopathic. N and K lift and hold/variable frost susceptibility/ Increases organic matter. Sow at 40kg/ha</p>	<p>White Mustard Excellent biomass and so increases organic matter. Superior weed suppression. Traps N and K in growing crop. Produces isothiocyanate giving biocidal effects against weeds and pests. Some nematode activity. Sow at 12kg/ha</p>	
	<p>Brown Mustard Very strong early vigour for weed suppression. Produces isothiocyanate for biocidal effects. Active against PCNs. Some frost tolerance. Increases organic matter and traps N and K. Suitable for grazing. Can be sown later than most crops. Sow at 5kg/ha</p>	<p>Kale/Mustard Hybrid Very quick to establish for excellent weed suppression. Traps N, P and K. Is frost tolerant. Can provide excellent game bird cover over winter. e.g. Carbon. Sow at 5kg/ha</p>	
	<p>Oil Radish Standard Deep root soil conditioner, good weed suppressant plus high biomass so increases soil organic content. Traps N and K. Produces high levels of isothiocyanate for biofumigation and some nematode control. Most oilseed radish exhibit club root resistance. Sow at 12kg/ha</p>	<p>Oil Radish Class 1 Offers the best of beet cyst nematode control Oil Radish Class 2 Significantly reduces beet cyst nematodes.</p>	
	<p>Tillage Radish Longer tap root for deeper soil conditioning. Also traps N and K. Produces isothiocyanates for biofumigation. Significant control of beet cyst nematode as well as other nematodes. Sow at 12kg/ha</p>	<p>Phacelia Excellent disease break crop/ insect attractant, hover flies eat aphids. Breaks down quickly for C, P, K and Mg. Sow at 6kg/ha</p>	
	<p>Buckwheat Raises nutrients N and P lift and hold as Buckwheat is an excellent phosphate trapper. Very quick growing with large biomass. Insect attractant. Can be very susceptible to frost kill so a short catch crop. Sow at 50kg/ha</p>	<p>Linseed Easy to establish and is good at helping lift Nitrogen in soil. Branching tap root for soil conditioning. Not as attractive to slugs as some other species. Sow at 30kg/ha</p>	
	<p>Vetch Excellent nitrogen fixer especially if drilled early, very compatible with rye/oats. Spring and Winter vetch options are available. Sow at 40kg/ha</p>	<p>Red Vetch Quick growing high biomass option. A more frost susceptible vetch option. Sow at 40kg/ha</p>	
	<p>Berseem/Alexandria/Egyptian Clover Annual legume for nitrogen fixing. Quick establishment but variable frost susceptibility. Single cut type with no regrowth habit also available. Sow at 12kg/ha</p>	<p>Lucerne Can be slow to establish but capable of fixing nitrogen. Not ideal for late drilling. Sow at 20/kg/ha</p>	
	<p>Crimson Clover Grows at lower temperatures than other annual legumes. Quick establishment with upright growth habit/weed suppression/ degrades into soil very quickly. Sow at 12kg/ha</p>	<p>Red Clover Historically used as a nutrient restorer and should not be forgotten. Great nitrogen fixer but needs to be drilled early. Winter hardy perennial. Sow at 12kg/ha</p>	

MAIZE VARIETIES FOR 2022



GLORY KORIT® PRO

For starch production

- > FAO 170 (Mat. Class 10)
- > Remains a firm favourite due to reliable yields from an early harvest
- > Very high starch content & digestibility produces superb forage
- > Suitable for all sites and has shown to produce high yields of quality forage whatever the season

Maturity Class	10
FAO	170
DM Yield	16.8 t/ha
Starch Yield	6.1 t/ha
ME Content	11.8 MJ/ME

All maize varieties contain Korit seed treatment as either Initio Bird Protect or Korit Pro/ME

KWS EXELON **NEW**

The new high yielding variety to which others will compare!

- > KWS EXELON brings added stability in field performance to the early forage segment, thanks to its lower ear insertion height. It has superb grain density leading to high starch yields
- > Destined to be 1st choice variety on BSPB/NIAB 2021 Forage Maize list
- > High grain:stover ratio for energy dense silage
- > Excellent early vigour on all soil types

INITIO BIRD PROTECT



Maturity Class	10
FAO	170
DM Yield	19.4 t/ha
Starch Yield	6.93 t/ha
ME Content	11.7 MJ/ME



We can also supply varieties for the AD market including Keops, Fabregas, Amoroc, Ambrosini, Kilomeris and Mantilla.

DIGNITY **NEW**

Top quality, high yielding maize from an early harvest!

- > Very early maturing delivering an excellent result in a short growing season
- > Medium height with good early vigour
- > High starch content and good ME yields, great for grass silage based diets
- > Excellent yield comparable to some later maturing varieties
- > Expected to be listed as First Choice when it appears on the BSPB/NIAB List

KORIT® PRO



Maturity Class	10
FAO	160
DM Yield	19.1 t/ha
Starch Yield	6.05 t/ha
ME Content	11.7 MJ/ME



OTHER VARIETIES

AMBITION

- > FAO 190 (Mat. Class9)
- > Combines high DM yield with improved cell wall digestibility, to deliver high ME yields
- > High starch yield ensuring quality silage in all situations

KORIT® PRO

EMMERSON

- > FAO 150 (Mat. Class 12)
- > THE maize to choose for early harvest from standard sowing or standard harvest from a late sowing
- > A good choice if following with a cereal crop

KORIT® PRO

MAIZE AGRONOMY

UNDERSOWING OF MAIZE WITH GRASS

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	4-6 kg/ha	ACT AfterMaize	Italian Ryegrass
6 leaves	4-6 kg/ha	ACT RapidGrass	Westerwold / Italian Ryegrass
8 leaves	6-8 kg/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 of the nutrients in starter fertilisers benefits the environment through reduced risk of leaching.



Maize grown without starter fertiliser.

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% P2O5	125 kg/ha		Switching to OEP gave a net benefit of £159.98
OEP 46% P2O5	62 kg/ha	+ 0.65t/ha	
Difference	63 kg/ha	+ 0.65t/ha	

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

Maxi-Maize

19N 40P 0K + 5SO₃
+ Boron + Manganese + Zinc + OEP



Maxi-Maize @60 kg/ha **DAP @125 kg/ha**

Maxi-Maize = faster root growth and establishment



Maize grown with starter fertiliser.

FODDER & ENERGY BEET

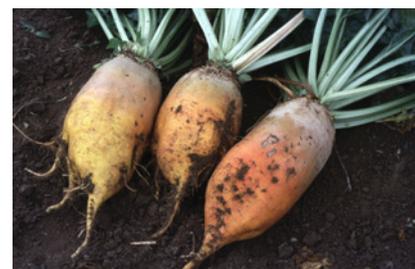
FODDER & ENERGY BEET SOWING INFORMATION

Optimum Sowing Period	Late March – End April				
Precision Drill	100,000 seeds/ha 45,000 seeds/acre				
Pack Size	50,000 seed unit				
		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 Ground		40 - 50	55 - 65	65 - 75	75+
Variety		Feldherr, Jamon	Bangor, Blaze, Robbos, Kyros	Enermax, Magnum	Brick, Tadorne
Harvest/Utilisation method		Graze or Hand Lift	Graze or Lift	Lift	Lift
Feeding		Whole or Chopped	Whole or Chopped	Chopped	Chopped
Dry Matter Yield		Higher 			
Fresh Yield		Higher 			
Storage Capability		Longer 			
Dirt Tare		Cleaner 			

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.

Feldherr	Jamon
<ul style="list-style-type: none"> > One of the highest yielding fresh weights from a fodder beet. Ideal for sheep or cattle 	<ul style="list-style-type: none"> > 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)	Kyros (Force Treated)
<ul style="list-style-type: none"> > 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 	<ul style="list-style-type: none"> > Robbos is ideally suited for first time fodder beet growers > Clean yellow roots are easily harvested > Available with primed seed 	<ul style="list-style-type: none"> > Blaze has the potential to produce excellent dry matter yields with very clean, bright red roots > Low dirt contamination ensures high intakes 	<ul style="list-style-type: none"> > Good palatability make Kyros an ideal grazing beet for dairy, cattle or sheep

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)
<ul style="list-style-type: none"> > 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 	<ul style="list-style-type: none"> > Remains a popular choice as it's a consistent performer > Uniform sized, white-roots of high DM content > Good resistance to rust 	<ul style="list-style-type: none"> > A white rooted variety > Bred especially for AD, with excellent DM yields > High DM content reduces clamp losses & enables the beet to be stored for longer > Rhizomania resistant 	<ul style="list-style-type: none"> > 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

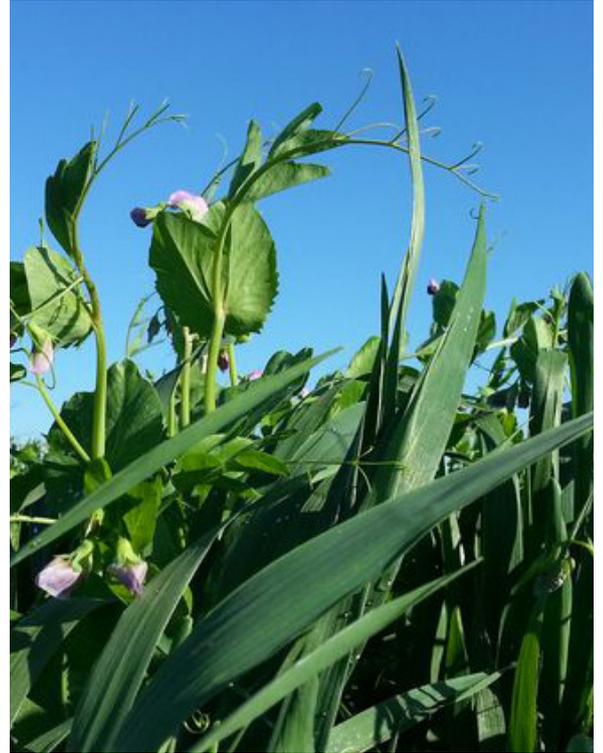
WHOLECROP SILAGE MIXTURES

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	60% Pea + 40% Barley
A mixture with more emphasis on the bulk and starch of barley supported with the protein and starch production of the peas	A more pea rich mixture designed to produce a bulky crop with a high crude protein content.
Oats + Barley + Peas	Barley/Oats + Peas + Vetch
A bulky mixture based on a barley/oat/pea mixture giving good palatability as well as reasonable protein.	A full spectrum of options with this mixture but the harvest date needs to be carefully managed



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 (5 DM tonnes/acre) can be expected if you get the crop established well at 45% DM
- > 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

Sowing Date	Mid March to Mid April
Sowing Depth	3-4 cm
Seed Rate	75 kg per acre (180 kg per ha). If undersowing use 50 kg per acre



WHOLECROP ADDITIVES

Wholecrop silages are a unique challenge for preservatives.

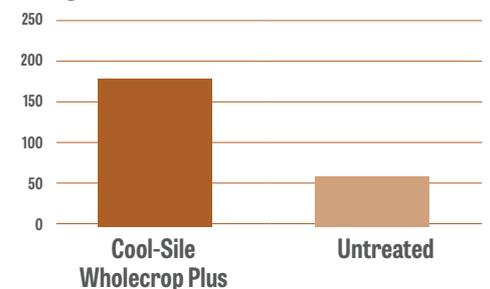
The combination of aerobic spoilage control with potentially difficult fermentation from a high legume content.

Cool-Sile Wholecrop Plus uses appropriate bacteria to ensure a rapid and efficient fermentation and preservative salts to control aerobic spoilage. The result is cool stable silage which maximises animal performance.

In trials Cool-Sile Wholecrop Plus showed an extra 5.7 days stability compared to untreated wholecrop silage.

Cool-Sile Wholecrop Plus is available in 200L barrels and 1000L IBCs and is applied at 1L per tonne.

Hours taken for silage temperature rise 3 degrees above ambient



GRAZING BRASSICA CATCH CROPS

MAIN SEASON FORAGE CROPS - SOWING & UTILISATION TIMINGS

	Sowing rate kg/acre	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Forage Rape	B 1.5 - 2.5											
	DD 1.0 - 2.0											
Kale x Rape Hybrid	B 1.5 - 2.5											
	DD 1.0 - 2.0											
Stubble Turnip	B 1.5 - 2.5											
	DD 1.0 - 2.0											
Autumn Keep/ Rapid Root	B 1.5 - 2.5											
	DD 1.0 - 2.0											
Meatmaker/ WinterGraze/Zoom	B 1.5 - 2.5											
	DD 1.0 - 2.0											
Extenda-Graze	B 8.0 - 10.0											
	DD 8.0 - 10.0											
Fodder Beet	42,000 - 50,000											
Kale	B 1.5 - 2.5											
	DD 0.8 - 2.5											
Swede	B 0.75 - 1.25											
	DD 0.5 - 1.0											
Maincrop Turnip	B 0.75 - 1.25											
	DD 0.5 - 1.0											
Mustard	B 5.0 - 6.0											
	DD 4.0 - 5.0											
Forage Rye	50 - 60											

B - Broadcast DD - Direct Drilled

Sowing

Grazing

SWEDES

Swedes prefer a cool moist climate, e.g. west and northern areas of the UK. The winter hardiness of swedes makes them suitable for the coldest sites.

INVITATION

A very uniform club root resistant variety, ideal for utilisation after Christmas. Invitation also has excellent resistance to powdery mildew.

GOWRIE

A very uniform club root resistant variety, ideal for utilisation after Christmas. Invitation also has excellent resistance to powdery mildew.

LOMOND

A very uniform club root resistant variety, ideal for utilisation after Christmas. Invitation also has excellent resistance to powdery mildew.

TRIUMPH

A very uniform club root resistant variety, ideal for utilisation after Christmas. Invitation also has excellent resistance to powdery mildew.



SOWING & UTILISATION

Dry Matter	10 - 13%
Cost per ha	£403/ha (£163/acre)
Cost per tonne utilised dry matter	£62
Cost per tonne fresh weight	£5

Direct Drill	1.0 kg/acre (3kg/ha)
Precision Drill	350g - 850g/ha
Broadcast	2kg / acre (5.0kg/ha)
Optimum Sowing Period	Mid April - Late May
Utilisation	80-130 days (Late Sep-Jan)
Average Dry Matter Yield	7-10 DM tonnes/ha
Average Fresh Yields	70 - 90 tonnes/ha

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



VOLLEND A

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



SAMSON

Sweet tetraploid tankard shaped roots

- > Produces large tankard shaped roots which are palatable for cows and sheep
- > Shown to be a preferential grazer leading to higher intake and growth rates
- > Untreated seed

Due to seed crop failures, there will be no stubble turnip seed available until new seed crops are harvested and processed late summer 2022.

Forage Rape/Stubble Turnip catch crop mixtures (page 23) are freely available for sowing from spring 2022.



BARKANT

A proven and reliable stubble turnip

- > A very winter hardy turnip
- > High yields of purple tankard shaped roots that is palatable for both sheep and cattle
- > Untreated seed



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



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



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

FORAGE RAPE - KALE/RAPE HYBRIDS

Rape and hybrids have the advantage of being very fast growing crops suitable for all livestock. 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	£12

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 feed quality, being high in protein and easily digestible, remaining palatable well into the winter
- > Untreated seed



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



RAMPART

High feed quality and grazing flexibility

- > Bred with feed quality enhancements and high yield potential
- > Excellent winter hardiness giving flexibility when grazed
- > Untreated seed



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



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



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



REDSTART

Rapidly establishing catch crop

- > Rapidly establishes and can be ready for grazing in 8 weeks
- > High quality with good yields and the potential for multi grazings
- > Untreated seed



SWIFT

Widely grown Kale/Rape hybrid

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

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)
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



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



ZOOM

Vigorous and quick growing mixture

- > Blend of Winfred hybrid brassica and forage rape
- > Ideal for replacing failed crops or patching spring sown crops
- > High leaf to stem ratio crop using carefully selected varieties with good disease and bolting resistance
- > Sow at 2kg per acre
- > Untreated seed



AUTUMN KEEP

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



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 to protect the stubble turnips during a frost
- > Sow at 2kg per acre
- > Contains:
 - 60% Stubble Turnip
 - 35% Forage Rape
 - 5% Kale
- > Untreated seed



EXTENDA-GRAZE

A versatile catch crop for sheep or cattle

- > A mix of Italian Ryegrass and Forage Rape
- > Used for grazing in the summer/autumn, followed by either spring grazing and/or a silage cut
- > IRG will not head in 1st year will give quality grazing of leafy lush grass
- > Sow at 8-10kg per acre
- > Contains:
 - 25% Fox Italian Ryegrass
 - 50% Alamo IRG
 - 25% Forage Rape
- > Untreated seed



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
 - Rampart
 - 25% Stubble Turnip
 - Rondo
 - 10% Kale
- > Untreated seed

ACTION

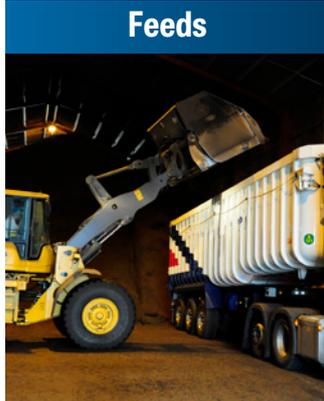
FORAGE SEED GUIDE 2022

Your Farming Supplies People

Fertilisers



Feeds



Fuel



Seeds



Crop Protection



Animal Health



Mineral Supplements



Silage Additives



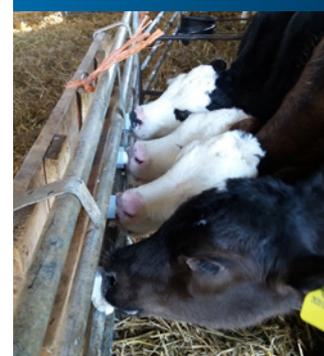
Silage Wrap



Dairy Chemicals



Milk Powder



Lubricating Oils



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