



germinal

Climate Smart Mixture Ranges

Specifications and usage

Sowing future seeds

germinal.com

We have developed our Climate Smart ranges to deliver the Germinal grass performance you expect but with new formulations and innovative varieties to support sustainable livestock production on farm.



These ranges offer farmers seed options and solutions to climate change challenges that help milk and meat production stay profitable for the future.

Find out more

about our Climate Smart ranges - click [here](#)



Customised options to include plantain, chicory or herb packs are available, please speak to your sales representative for details.



Emissions reduction

Lower ammonia and N₂O

Performance plus sustainability

All Climate Smart Clean mixtures contain our recognised Germinal Aber High Sugar Grass varieties to mitigate air pollution from ammonia and nitrous oxide while powering milk and meat production with efficient forage protein conversion.

Gaining environmental benefits through grass and forage choices is a sustainable grassland management approach and can be used as a carbon reduction strategy.

Contains

Aber HSG



Cutting

CS Clean Short-Term Silage 1-2 years Red Clover

Giving rotation flexibility, this mixture provides a quick establishing short term ley containing emissions reducing Aber High Sugar Grass varieties that deliver the highest quality and yield.

Kg/pack	Variety	Type
4.00	AberEcho	Hybrid Ryegrass Tetraploid
5.00	AberImage	Hybrid Ryegrass Tetraploid
1.50	Avisto	Red Clover
1.50	Garant	Red Clover

CS Clean Silage 3-4 years Red Clover

Offering outstanding quality and ME yield for 3-4 years, this newly formulated mixture contains Aber HSG varieties with early vigour and spring growth to provide silage from late April to mid-May. The addition of AberClaret provides long lasting protein-rich forage.

Kg/acre	Variety	Type
4.00	AberNiche	Italian Festulolium Tetraploid
2.00	AberEcho	Hybrid Ryegrass Tetraploid
3.00	AberSpey	Perennial Ryegrass Intermediate Tetraploid
3.00	AberClaret	Red Clover

CS Clean Long Term Multi-Cut Red Clover

Produces large quantities of high-quality silage from multiple cuts during peak grass growth. Exceptional ME yield and suitable for cutting at 4-5 weekly intervals from late April. Red clover provides a protein boost.

Kg/acre	Variety	Type
2.50	AberZeus	Perennial Ryegrass Intermediate Diploid
2.00	AberSpey	Perennial Ryegrass Intermediate Tetraploid
2.00	AberSevern	Perennial Ryegrass Late Diploid
2.50	AberGain	Perennial Ryegrass Late Tetraploid
3.00	AberClaret	Red Clover

CS Clean Long Term Multi-Cut No Clover

A sustainable highly productive silage mixture producing consistent quality silage 5-6 times a year. First cut in mid-late April, then at 4-5-week intervals thereafter. Feeds dairy livestock over the winter months.

Kg/acre	Variety	Type
4.00	AberZeus	Perennial Ryegrass Intermediate Diploid
3.50	AberSpey	Perennial Ryegrass Intermediate Tetraploid
3.50	AberSevern	Perennial Ryegrass Late Diploid
4.00	AberGain	Perennial Ryegrass Late Tetraploid

Grazing

CS Clean Long Term Grazing

Suitable for cattle and sheep in rotational and set stocking systems, this grazing ley persists up to 10 years and with outstanding grazing D-value drives impressive daily liveweight gains.

Kg/acre	Variety	Type
2.50	AberZeus	Perennial Ryegrass Intermediate Diploid
2.00	AberMagic	Perennial Ryegrass Intermediate Diploid
2.50	AberGreen	Perennial Ryegrass Intermediate Diploid
2.00	AberSevern	Perennial Ryegrass Late Diploid
2.00	AberThames	Perennial Ryegrass Late Diploid
3.00	AberBann	Perennial Ryegrass Late Diploid
1.00	AberPasture	White Clover Blend + DoubleRoot

Dual Purpose

CS Clean Climate Smart Dual Purpose

An all-round mixture for dairy, beef and sheep systems offering top performance with environmental benefits. Produces a dense high-quality sward resistant to poaching.

Kg/acre	Variety	Type
3.00	AberGreen	Perennial Ryegrass Intermediate Diploid
2.00	AberZeus	Perennial Ryegrass Intermediate Diploid
2.00	AberSpey	Perennial Ryegrass Intermediate Tetraploid
3.00	AberSevern	Perennial Ryegrass Late Diploid
4.00	AberGain	Perennial Ryegrass Late Tetraploid
1.00	AberPasture	White Clover Blend + DoubleRoot

Overseeding

CS Clean Long Term Overseeding

When a full reseed isn't possible, boost production with quick to establish Aber HSG varieties that deliver high-performance, increased dry matter yield and D-value. Also available without clover.

Kg/acre	Variety	Type
3.00	AberSpey	Perennial Ryegrass Intermediate Tetraploid
3.00	AberGain	Perennial Ryegrass Long-Term Tetraploid
3.00	AberBite	Perennial Ryegrass Long-Term Tetraploid
1.00	AberPasture	White Clover Blend + DoubleRoot



Soil Support

Diversify with multi-species

Performance plus sustainability

The Climate Smart Thrive range supports soil health in multiple ways. These carefully selected multi-species mixtures enhance organic matter, biodiversity, and soil structure.

Containing clover for reduced nitrogen inputs, Climate Smart Thrive offers all-round improvement with excellent palatability, nutrition support, and production benefits.

Contains

Aber HSG



Cutting

CS Thrive Short-term Silage 1-2 years Red Clover

Containing hybrid ryegrass varieties this mixture provides a rapid growing ley suitable for shorter term rotations. Includes red clover as a high-quality protein source with a long taproot that benefits soil structure.

Kg/pack	Variety	Type
5.00	AberEcho	Hybrid Ryegrass Tetraploid
4.00	AberImage	Hybrid Ryegrass Tetraploid
1.50	Avisto	Red Clover
1.50	Garant	Red Clover

CS Thrive 3-4 year Silage

This medium-term mixture will persist for up to 4 years and ensures outstanding quality. Contains deeper rooting grasses for spring growth and Germinal's AberClaret red clover for long lasting protein content and improved soil health.

Kg/acre	Variety	Type
3.00	AberNiche	Italian Festulolium Tetraploid
3.00	AberEcho	Hybrid Ryegrass Tetraploid
3.00	AberSpey	Perennial Ryegrass Intermediate Tetraploid
3.00	AberClaret	Red Clover

CS Thrive Multi-Species Cutting

Includes our longer term festulolium, AberRoot from our DeepRoot range. This mixture also provides complimentary species in Timothy, legumes and herbs which enhance soil health while delivering animal performance.

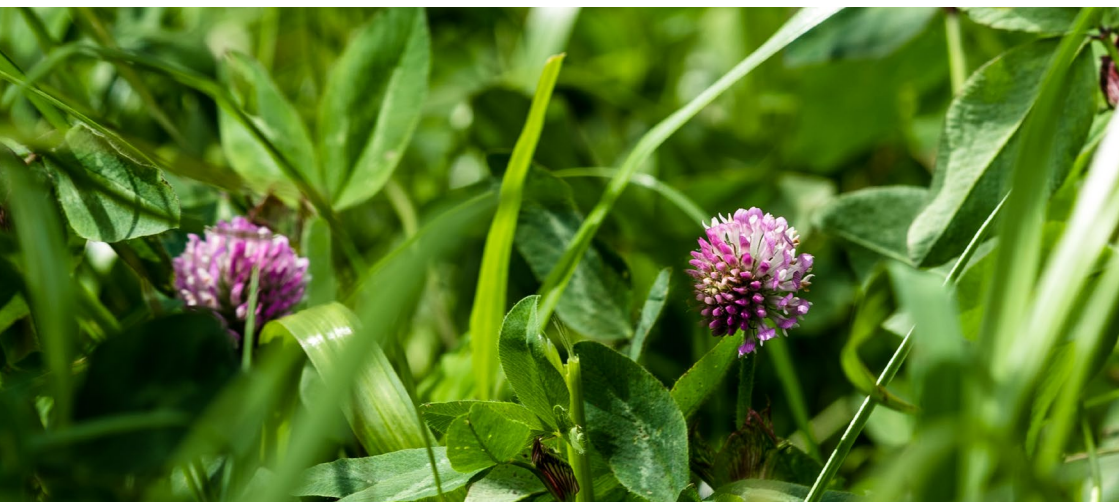
Kg/acre	Variety	Type
3.00	AberGreen	Perennial Ryegrass Intermediate Diploid
3.00	AberZeus	Perennial Ryegrass Intermediate Diploid
3.00	AberRoot	Perennial Festulolium Int Tetraploid
1.00	Comer	Timothy
0.75	Tonic	Plantain
1.00	AberDairy	White Clover Blend
1.50	AberClaret	Red Clover
0.75	Carmina	Crimson Clover
4.00	Claudia	Vetch
1.00	Fixation	Inoculated Balsana Clover

Grazing

CS Thrive Multi-Species Grazing

Ideal for low input systems needing high daily liveweight gain and improvements in soil health. Produces a dense sward of Aber HSG varieties to drive animal performance, reduce reliance on nitrogen inputs with increased drought and grazing resistance.

Kg/acre	Variety	Type
2.00	AberZeus	Perennial Ryegrass Intermediate Diploid
2.00	AberRoot	Perennial Festulolium Int Tetraploid
1.40	AberGreen	Perennial Ryegrass Intermediate Diploid
2.00	AberThames	Perennial Ryegrass Late Diploid
2.00	AberBann	Perennial Ryegrass Late Diploid
1.00	AberPasture	White Clover Blend + DoubleRoot
1.00	AberClaret	Red Clover
0.15	Leo	Birdsfoot Trefoil
0.50	Puna II/Endure	Perennial Chicory Blend
0.70	Tonic	Plantain
1.00	Comer	Timothy



Your production of nutritious homegrown grass and forage depends on healthy and fertile soil. Not only can fertile soil bring you economic gains – but it also delivers environmental benefits, giving you the best of both worlds. Our grassland guide will help you improve soil fertility by covering key aspects, including organic matter, pH, soil types, and more.



[Download](#) our -
Germinal
Grassland Guide





Plant Resilience

Drought resistant forage

Performance plus sustainability

Germinal Climate Smart Adapt mixtures have been specially developed to help maintain production and reduce risk in the face of extreme weather events.

Adapt mixtures contain deep-rooted varieties with a stronger adaptive capacity to withstand drought conditions. The addition of clover brings reduced fertiliser requirements and nature recovery advantages by attracting pollinators.



Contains

Aber HSG

Cutting

CS Adapt Short-Term Silage 1-2 years Red Clover

Offering outstanding quality and ME yield for 1-2 years, this newly formulated mixture contains Aber HSG varieties with early vigour and spring growth to provide silage from late April to mid-May.

Kg/acre	Variety	Type
5.00	AberNiche	Italian Festulolium Tetraploid
4.00	AberEcho	Hybrid Ryegrass Tetraploid
1.50	Avisto	Red Clover
1.50	Garant	Red Clover

CS Adapt Silage 3-4 years Red Clover

Produces large quantities of high-quality silage from multiple cuts during peak grass growth. Exceptional ME yield and persistent clover content. Suitable for cutting at 4-5 weekly intervals from late April.

Kg/acre	Variety	Type
3.00	AberNiche	Italian Festulolium Tetraploid
3.00	AberRoot	Perennial Festulolium Int Tetraploid
3.00	AberEcho	Hybrid Ryegrass Tetraploid
3.00	AberClaret	Red Clover

CS Adapt Long Term Multi-Cut

A top quality mixture that allows cutting every 4 weeks with large leaf white clover to withstand the cutting regime. The proven persistence of Germinal's AberClaret red clover ensures this mixture continues to perform into drier periods.

Kg/pack	Variety	Type
2.50	AberZeus	Perennial Ryegrass Intermediate Diploid
2.00	AberSpey	Perennial Ryegrass Intermediate Diploid
2.00	AberSevern	Perennial Ryegrass Late Diploid
2.50	AberGain	Perennial Ryegrass Late Tetraploid
3.00	AberClaret	Red Clover
1.00	Aran	White Clover Large Leaf

Grazing

CS Adapt Long Term Grazing

A complimentary blend of deep rooting, drought persistent species are combined with high performing Aber HSG varieties and legumes for nitrogen fixation and growth in drier periods.

Kg/acre	Variety	Type
1.50	AberZeus	Perennial Ryegrass Intermediate Diploid
3.30	AberRoot	Perennial Festulolium Int Tetraploid
1.50	AberGreen	Perennial Ryegrass Intermediate Diploid
1.25	AberSevern	Perennial Ryegrass Late Diploid
1.25	AberThames	Perennial Ryegrass Late Diploid
2.00	AberBann	Perennial Ryegrass Late Diploid
0.80	Lucullus	Cocksfoot
0.50	Iliade	Soft Leaved Tall Fescue
1.00	AberPasture	White Clover Blend
0.50	AberClaret	Red Clover
0.50	Leo	Birdsfoot Trefoil
0.20	Puna II/Endure	Perennial Chicory Blend
0.20	Tonic	Plantain
0.50	Comer	Timothy

Dual Purpose

CS Adapt Dual Purpose

Containing our specially formulated soil and animal health herb pack, this mixture delivers all the benefits of the long-term mixture, driving animal performance even in dry conditions. Suitable for cutting or grazing.

Kg/acre	Variety	Type
3.00	AberGreen	Perennial Ryegrass Intermediate Diploid
2.00	Iliade	Soft Leaved Tall Fescue
2.00	AberRoot	Perennial Festulolium Int Tetraploid
3.00	AberSevern	Perennial Ryegrass Late Diploid
3.00	AberGain	Perennial Ryegrass Late Tetraploid
0.75	Comer	Timothy
1.00	AberPasture	White Clover Blend with DoubleRoot
0.20	Tonic	Plantain
0.10	Puna II	Perennial Chicory
0.40	Mixed Herbs	Soil and Animal Health Herbs Pack

Germinal Climate Smart Adapt mixtures have been specially developed to help maintain production and reduce risk in the face of extreme weather events.

Adapt mixtures contain deep-rooted varieties with a stronger adaptive capacity to withstand drought conditions. The addition of clover brings reduced fertiliser requirements and nature recovery advantages by attracting pollinators.



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Germinal
Grassland Guide



Climate Smart CAPTURE®

Nutrient Efficient
Reduce chemical fertiliser

Performance plus sustainability

The Climate Smart Capture range has been developed to offer a powerful combination of nitrogen fixing clovers and high-energy Aber High Sugar Grasses (Aber HSG).

These forage mixtures are a sustainable choice if considering the environmental impact of inorganic fertiliser, need to improve soil fertility or boost wildlife. Red clover options provide improved quality of silage.

Contains

 Aber HSG



Cutting

Available in short, medium or longer term cutting mixtures, Climate Smart Capture includes higher levels of clover content to increase natural nitrogen fixation and reduce the need for artificial N applications.

CS Capture Short-Term Silage 1-2 years Red Clover

This is a quick establishing protein rich mixture with added vetch legume to increase natural Nitrogen fixation and reduce the need for chemical N applications. Ideal for bolstering silage stocks or adding silage production into an arable rotation.

Kg/pack	Variety	Type
5.00	AberNiche	Italian Festulolium Tetraploid
4.00	AberEcho	Hybrid Ryegrass Tetraploid
1.00	Avisto	Red Clover
1.00	Garant	Red Clover
1.00	Aran	White Clover Large Leaf
5.00	Claudia	Vetch

CS Capture Silage 3-4 years Red Clover

A high protein, high energy silage for the medium term. The quality longer term red clover AberClaret in the formulation provides a persistent mixture with sustainable soil health and biodiversity benefits.

Kg/acre	Variety	Type
4.00	AberNiche	Italian Festulolium Tetraploid
3.00	AberSpey	Festulolium Intermediate Tetraploid
2.00	AberEcho	Hybrid Ryegrass Tetraploid
3.00	AberClaret	Red Clover
1.00	Aran	White Clover Large Leaf

CS Capture Long Term Multi-Cut

This all perennial ryegrass mixture will grow in synchronisation with the long lasting AberClaret red clover. This will produce higher protein regular cuts at 4 -5 weeks from late April onwards. Large leaf white clover is also included for added persistency, if the ley is to remain after 5 years.

Kg/acre	Variety	Type
2.50	AberZeus	Perennial Ryegrass Intermediate Diploid
2.00	AberSpey	Perennial Ryegrass Intermediate Tetraploid
2.00	AberSevern	Perennial Ryegrass Late Diploid
2.50	AberGain	Perennial Ryegrass Late Tetraploid
3.00	AberClaret	Red Clover
1.00	Aran	White Clover Large Leaf

Grazing

CS Capture Long Term Grazing

Containing a higher proportion of Aber HSG Diploid varieties, this mixture produces a dense sward suitable for all grazing stock with outstanding grazing yield and grazing D-value. Clover is proven to drive animal intakes. The inclusion of higher levels of white clover and some red clover helps boost the protein content and increase natural nitrogen fixation in the sward, lowering environmental impact.

Kg/acre	Variety	Type
2.00	AberZeus	Perennial Ryegrass Intermediate Diploid
2.00	AberSpey	Festulolium Intermediate Tetraploid
2.10	AberGreen	Perennial Ryegrass Intermediate Diploid
2.00	AberSevern	Perennial Ryegrass Late Diploid
1.70	AberThames	Perennial Ryegrass Late Diploid
2.00	AberBann	Perennial Ryegrass Late Diploid
1.50	AberPasture	White Clover Blend with DoubleRoot
1.00	AberClaret	Red Clover
0.70	Leo	Birdsfoot Trefoil

Dual Purpose

CS Capture Dual Purpose

This mixture is specifically formulated to suit cutting and grazing situations, providing increased legume content to reduce reliance on artificial nitrogen.

Kg/acre	Variety	Type
3.50	AberGreen	Perennial Ryegrass Intermediate Diploid
2.50	AberSpey	Perennial Ryegrass Intermediate Tetraploid
3.50	AberSevern	Perennial Ryegrass Late Diploid
3.00	AberGain	Perennial Ryegrass Late Diploid
1.00	AberPasture	White Clover Blend with DoubleRoot
1.00	AberClaret	Red Clover
0.50	Leo	Birdsfoot Trefoil



Extreme weather caused by climate change is making life difficult for British farmers, who are also impacted by fertiliser costs. Increasingly, we are seeing farmers turning to nitrogen fixing clovers as alternative fertilisers to improve self-sufficiency in the face of these challenges.



Environmental
Schemes

Performance plus sustainability

The Climate Smart Restore range gives you expertly selected, environmentally beneficial forage mixtures that offer nature recovery advantages. Formulated to comply with government schemes, from clever clover to healthy hedgerows, multi-species to meadows, all will deliver forage performance with environmental benefits.

Germinal supplies a wide range of mixtures designed for the Government managed environmental schemes in England and Wales. All mixture details for the various schemes can be found on our website – scan the QR code to find out more.



Find out more
about our Climate Smart
ranges - click [here](#)



Contains

 Aber HSG

The sustainable agriculture system of the future starts with seeds.

The Germinal Climate Smart mixture ranges have been developed to support sustainable production. They include world-leading hybrid clovers, multi-species ecosystem heroes, biodiversity boosters and soil improvers.

All of these are available with our award-winning net zero hero, Aber High Sugar Grass, the ultimate forage powerhouse scientifically proven to reduce emissions.



Sowing future seeds.

Germinal
Camp Road
Witham St. Hughes
Lincoln LN6 9QJ
T: +44 (0) 1522 868714
lincoln@germinal.com

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