

2024

Reducing Your Input Costs



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Welcome

Welcome to our 2024 catalogue in this our 48th trading year.

Most farmers are naturally very optimistic about the future of food production, which is a good attribute to have considering the many problems they must overcome to make a living.

The spring of 2023 certainly tested us all by arriving very late, particularly in the western areas of the UK. This affected the sowing time of all spring crops, which then had to endure an eight-week drought after sowing.

Not surprisingly, the resulting harvest of cereals were well down on harvest year 2022.

That said, many farmers have reported how well Western Seeds Cereal Blends have yielded in a stressful year compared with single crop species.

As the direct-to-farm government grants are gradually reducing, new specific English, Scottish and Welsh Agri

Grant Schemes are becoming available (see pages 4-5) to working farmers. Careful study of these new Agri Grant Schemes, with the view of incorporating some of them into your farm rotations, could well be profitable now and in the future.

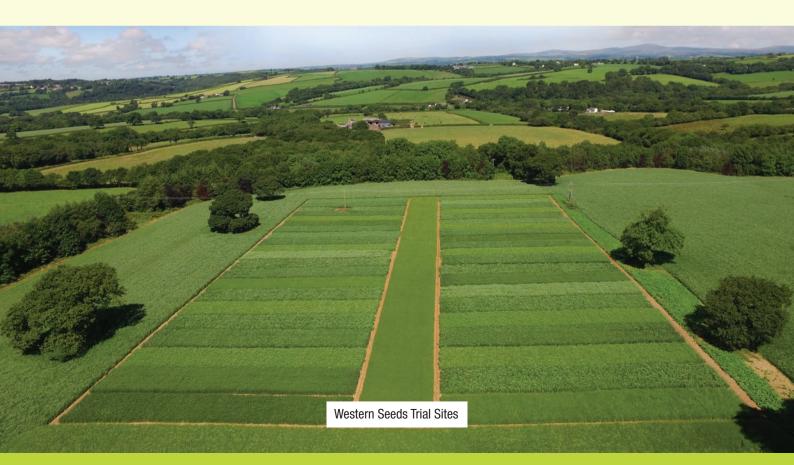
Grass and clover leys are the bedrock of farm rotations. It is, therefore, essential that you utilise the best herbage varieties available for your farm (see page 12).

On page 27 you will find an illustration of a basic Western Seeds farm rotation; useful for new and established farmers wanting to enhance their soil's fertility and overall farm sustainability.

As always, our team of seed and crop management specialists are happy to help you during the growing year.

Give us a call - we look forward to hearing from you!

John Faulconbridge Managing Director



Countryside Stewardship (CS) & Sustainable Farming Initiative (SFI)

- English Agri Grant Schemes

The Countryside Stewardship (CS) and Sustainable Farming Initiative (SFI) schemes pay farmers to adopt and maintain sustainable farming practices that can protect and enhance the natural environment alongside food production.

We stock certified seed suitable for the following CS and SFI options:

Optio n	Grant*1 (£/ha)	Use:	Page
CS GS4 – Herb-rich swards SFI SAM3 – Herbal Leys	£382 £382	HARMONY DP	6
CS AB9 – Winter Bird mix SFI AHL2 – Winter Bird food on arable & horticultural land	£732 £732	GALLANT or WINTER BIRD	33
CS AB7 – Spring cereal crop harvested as a wholecrop	£584	WESTERN CEREAL BLENDS	35-38
CS AB14 – Low input harvested cereal	£236	WESTERN CEREAL BLENDS	35-38
SFI SAM2 – Multispecies winter cover crops	£129	HUMBOLT PLUS or PREMIUM	32 48
CS SW6 – Winter cover crops	£129	HUMBOLT or HUMBOLT PLUS	32
CS SW7 – Reverting arable land to grassland with low fertiliser input	£326	PRIZE	19
SFI NUM2 – Legumes on improved grassland	£102	Any WS grass/clover reseed or SELECT	6-19 26

We can also provide certified seed for the following CS and SFI options:

Option	Grant*1 (£/ha)
CS AB1 – Nectar-flower mix SFI AHL1 – Nectar-flower mix	£614 £614
CS AB8 – Flower-rich margins and plots SFI IPM2 – Flower-rich grass margins, blocks or in-field strips	£673 £673
CS AB16 – Autumn sown bumblebird mix	£637
CS AB15 – 2 year legume fallow SFI NUM3 – Legume fallow	£593 £593
SFI IPM3 – Companion crop on arable & horticultural land	£55

*1 Grant values correct at time of publishing. For latest information visit: https://www.gov.uk/government/publications and search for Environmental Land Management Update

Growing For the Environment

- Welsh Agri Grant Scheme

Growing for the Environment (GfE) is a grant scheme available to all eligible farmers in Wales. The scheme supports the growing and utilisation of crops, which can result in improvements in the environmental performance of a farm business.

The scheme objectives are to support farmers to:

- reduce carbon and greenhouse gas emissions.
- adapt to climate change and build greater resilience into farm businesses.
- improve water quality and reduce flood risks.
- contribute towards a reversal in the decline of Wales' native biodiversity.

We can provide certified seed suitable for the following GfE options:

Spring Sown Crops:

Optio n	Grant*2 (£/ha)	Use:	Page
1. Mixed leys	£276.00	HARMONY GfE	7
2 Red clover or Lucerne ley	£229.00	MAGNUM or LUCERNE	8 22
3. Protein crops (no weed control)	£234.00	BEANS	49
4. Unsprayed root or forage crop	£118.00	RAPID, SPRINT or TEMPO LOMOND Swede KEEPER Kale	30-31
5. Unsprayed spring-sown cereals	£162.00	Western CEREAL BLENDS	35-38
6. Unsprayed spring cereals undersown with a mixed ley	£297.00	Western CEREAL BLENDS with HARMONY GFE	35-38 7
7. Unsprayed cereal and protein crop	£173.00	GfE Combicrop	40
8. Unsprayed cereal and protein crop undersown with a mixed ley	£302.00	GfE Combicrop With HARMONY GfE	40 7
9. Under sowing maize (spring/summer sown)	£85.00	PREMIUM	48

Autumn Sown Crops:

Option	Grant*2 (£/ha)	Use:	Page
1. Cover Crops	£124.00	HUMBOLT or HUMBOLT PLUS	32

^{*2} Grant values correct at time of publishing. For latest information visit: https://www.gov.wales/growing-environment-rules-booklet



HARMONY DP

Dual-Purpose Herbal Ley (GS4/SAM3)

This superior herbal ley contains 5 grasses, 3 legumes and 5 herbs. It has been designed to give you flexibility as it can be grazed, cut, or both.

You can expect it to last 5+ years.

The mixture qualifies for GS4 of the Countryside Stewardship Grant Scheme and SAM3 of the Sustainable Farming Initiative.

GS4 currently attracts a grant payment of £382 per hectare, SAM3 currently attracts a grant payment of £382 per hectare.

Available in half-hectare (13 Kilo) bags

HARMONY DP Contains:

	Kilos
ABERGAIN Tetraploid Late Perennial Ryegrass	2.50
COMER Timothy	2.50
LAURA Meadow Fescue	2.50
DONATA Cocksfoot	1.00
GARANT Red Clover	0.60
CONNI Smooth stalked meadow grass	0.80
ABERSWAN White Clover	2.00
AURORA Alsike Clover	0.40
PUNA II/ENDURE Chicory Blend	0.25
AGRIC TONIC Plantain	0.25
SHEEPS PARSLEY Herb	0.10
BURNET Herb	0.05
YARROW Herb	0.05
Total	13.00

HARMONY GFE

Herbal Ley (Option 1, GfE)

This herbal ley has been designed to produce a diverse sward of deep rooting grasses, legumes and herbs to meet the requirements of the WELSH GLASTIR "Growing for the Environment" Mixed Ley option.

This scheme currently attracts a payment of £276 per hectare (see page 5).

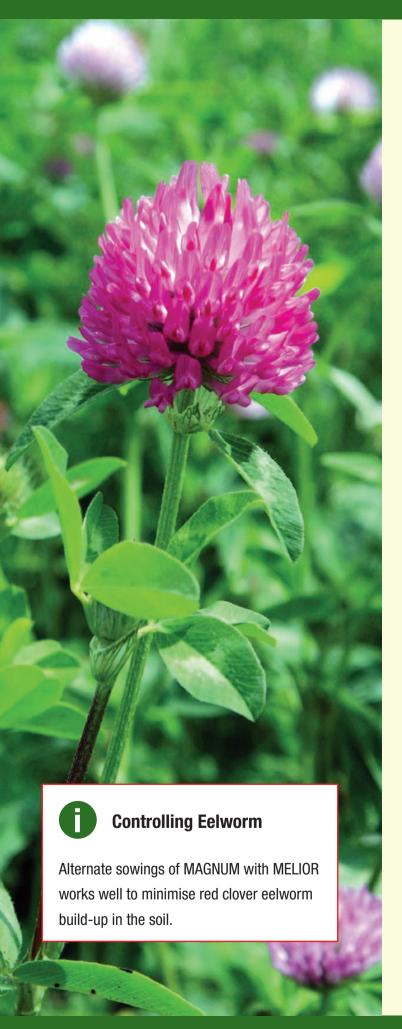
With good management this ley will easily last more than the 3 year minimum required by the scheme.

Available in half-hectare (12.5 kilo) bags

HARMONY GFE Contains:

	Kilos
ABERGAIN (Late) Tet Per Ryegrass	3.00
COMER Timothy	1.50
LAURA Meadow Fescue	2.00
LUCULLUS Cocksfoot	0.50
CONNI Smooth stalked meadow grass	0.50
ABERSWAN White Clover	2.00
ABERCLARET Red Clover	2.00
AURORA Alsike Clover	0.55
PUNA II/ENDURE Chicory Blend	0.20
AGRIC TONIC Plantain	0.20
SHEEPS PARSLEY Herb	0.05
Total	12.50





MAGNUM Red and White Clover Silage Ley

Unique to Western Seeds, MAGNUM is a mixture of red and white clover blended with the quality high D-value grasses – **AberZeus**, **AberSpey** and **AberGain**.

The inclusion of **AberClaret** and **AberSwan** clover gives improved longevity and yield.

MAGNUM will give you:

- At least four cuts of high-quality silage a year over five years with good crop management
- Silage that is high in protein and sugars
- A thick, dense sward helping to control weed establishment
- Residual nitrogen in the soil no need for expensive bought-in artificial nitrogen since MAGNUM supplies itself
- Improved soil structure with added humus

Available in 1 Acre (13.5 kilo) bags.

MAGNUM Contains:

	VIIOS
ABERZEUS Diploid Intermediate Perennial Ryegrass	4.00
ABERSPEY Tetraploid Intermediate Perennial Ryegrass	2.50
ABERGAIN Tetraploid Late Perennial Ryegrass	3.00
ABERCLARET Red Clover	3.00
ABERSWAN White Clover	1.00
Total	13 50

Why Stock Farmers are Turning to MAGNUM

The availability and price of nitrogen fertiliser are currently issues of concern for stock farmers in the U.K.

Very high prices will undoubtedly influence how boughtin nitrogen is utilised in the dairy and beef industry for herbage production.

Traditional herbage legumes (such as the latest red and white clover varieties) have been very much underutilised in the conventional farming sector due to the low cost of bought-in bag nitrogen.

TIME FOR A CHANGE?

MAGNUM uses the new, ever more persistent red and white clover varieties provided by the plant breeders, mixed with a selection of the best long-lasting high sugar perennial ryegrasses. MAGNUM gives the conventional farmer a new forage/nitrogen production system that reduces the need for bought-in, expensive bag nitrogen.

So how can you work with **MAGNUM** to your advantage?

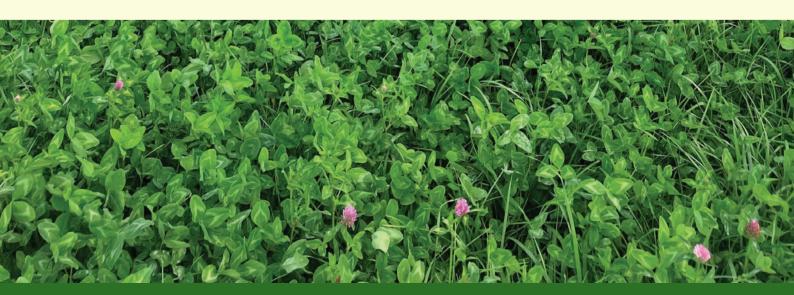
Establishment:

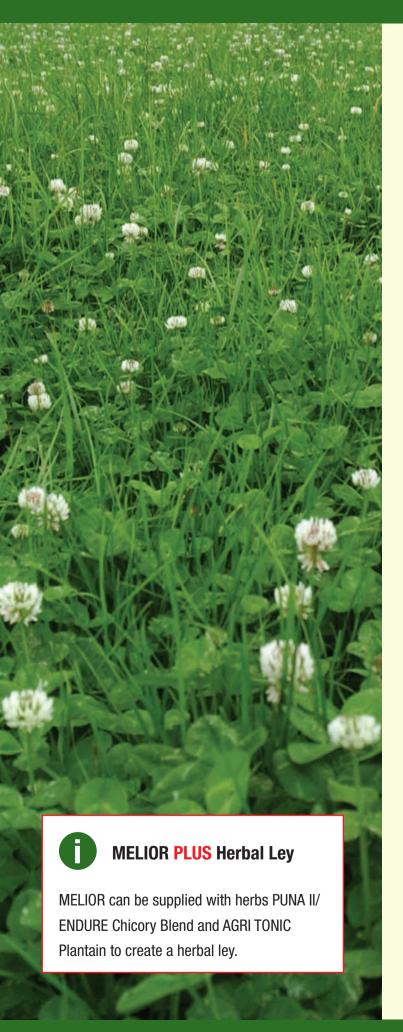
 Spring sowing is the optimum way to establish MAGNUM

- Broadcast rather than drill (surface sowing air machines)
- Preferably sow under a WS Arable Silage mixture.
 Harvest the WS Arable Silage in nine weeks (see page 20)
- No nitrogen is required in the seed bed if adequate soil residual nitrogen is available
- Light cuts (no nitrogen applications) in establishment year

Crop Management for the next 5+ years:

- Silage production only
- 4 to 5 cuts per annum (first cut at big-bud stage)
- Cut no lower than 8 cm
- No nitrogen applications required
- Applications of P and K to maintain adequate levels in the soil for production
- Utilise available animal manures (slurry etc.) as required by the crop
- Winter management: very light winter grazing





MELIOR White Clover Silage Ley

MELIOR is an outstanding herbage mixture **unique** to Western Seeds. It contains the quality high D-value grasses – **AberZeus, AberSpey**, **AberGreen** and **AberGain** with **AberSwan** white clover.

MELIOR will give you:

- At least four cuts of high-quality forage a year over five years with good crop management
- Can also be used as a grazing ley giving a thick sward with an early-bite for cows, cattle & sheep
- Residual nitrogen in the soil reduces the need for expensive bought-in artificial nitrogen as MELIOR makes its own
- Improved soil structure with added humus
- Available to harvest at the same time as MAGNUM

Available in 1 Acre (13 kilo) bags.

MELIOR Contains:

00
50
00
00
50

13.00



Total

Controlling Eelworm

Alternate sowings of MELIOR with MAGNUM works well to minimise red clover eelworm build-up in the soil.

BONUS Long-Term Dual-Purpose Ley

BONUS is one of our most popular mixtures because of its all-round versatility. With its high proportion of diploid perennial ryegrasses it is suitable for both grazing and for conservation.

Each year, only the very best perennial ryegrass herbage varieties are selected for our BONUS mixture. Grown for over 40 years it is a proven winner.

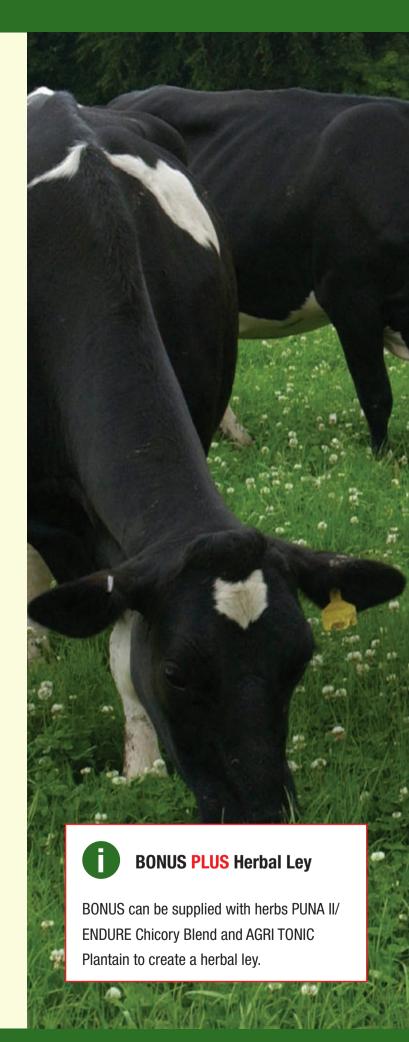
BONUS will give you:

- A very dense, thick sward
- Excellent palatability
- Excellent persistency
- Very high D-value forage
- Grazing & Conservation

Available in 1 Acre (13 kilo) bags.

BONUS Contains:

ABERZEUS Diploid Intermediate Perennial Ryegrass	3.50
ABERGAIN Tetraploid Late Perennial Ryegrass	2.00
ABERBANN Diploid Late Perennial Ryegrass	4.00
ABERLEE Diploid Late Perennial Ryegrass	2.00
COMER Timothy	0.50
ABERHERALD White Clover	0.50
ABERSWAN White Clover	0.50
Total	13 00



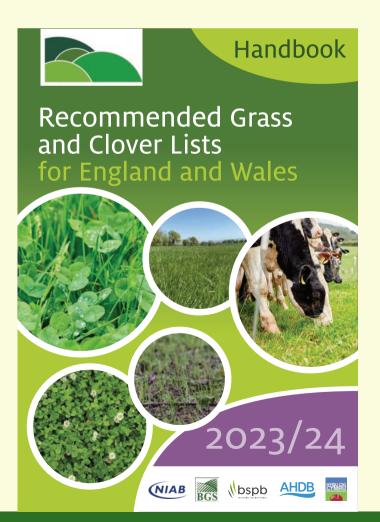
Kilos

Selecting The Best Grass Seed Mixture For Your Farm

When selecting a new ley, it can be tempting to make a decision based on the price of the seed mixture. This approach assumes that all grass seed mixtures are the same, but (as you will see later) they are not.

You will probably also be familiar with the saying "you get what you pay for" and this is certainly true of grass seed mixtures.

Grass mixtures can vary greatly in the quality of the grass varieties they contain, therefore studying their longevity, digestible dry matter yields (D-value and ME) is important if you want to have a productive, profitable ley.





How can you ensure you are buying a mixture that will achieve the highest monetary value for your business?

- Before purchasing a grass seed mixture take a good look at what grass and clover varieties it contains
- Check whether these varieties are on the U.K.
 Recommended Grass and Clover lists (www.ahdb.org. uk/knowledge-library/recommended-grass-and-clover-lists-rqcl)
- Look for the HVS (Higher Voluntary Standard) logo on the bag label

An analysis of many mixtures available to farmers in the U.K. shows them to contain herbage varieties not recommended on the RGCL, together with old, outclassed varieties sometimes masked with a minimum of new grasses. This cost-cutting exercise ensures a lower purchase price of seed but unfortunately, even with the application of the best grassland management, maximum dry matter yield potential will not be achieved.

Farmers who practice the best up-to-date grassland management whilst growing and utilising the very best grass mixtures will achieve the most profit from grass.

Check out the varieties we use in our mixtures: full analysis is in every catalogue we publish.

If you have any questions about grass varieties and mixtures please get in touch, we are always happy to help.

FORTIS *Long-Term Grazing Ley*

If you need a long-lasting, thick-leaved, dense-growing grazing sward, then FORTIS is for you. FORTIS has been proven and valued by stock farmers in the U.K. over many years.

It contains a high proportion of the latest outstanding high D-value, intermediate and late-heading diploid perennial rye grasses, selected specifically for their increased persistency and grazing palatability. These grasses make grazing management much easier for you, year after year.

The inclusion of **AberSwan** and **AberHerald** white clover provides up to 60+ kilos of nitrogen per acre to the grass – so saving you money on expensive fertiliser.

After a good spring graze with sheep/cattle, FORTIS can be cut for silage.

FORTIS will give you:

- A high-quality dense, thick sward
- Very high D-value forage with excellent palatability and persistency

Available in 1 Acre (13 kilo) bags.

FORTIS Contains:

	Kilos
ABERZEUS Diploid Intermediate Perennial Ryegrass	3.00
ABERBANN Diploid Late Perennial Ryegrass	4.50
ABERSEVERN Diploid Late Perennial Ryegrass	0.50
ABERLEE Diploid Late Perennial Ryegrass	4.00
ABERHERALD White Clover	0.50
ABERSWAN White Clover	0.50
Total	13.00





PRIMUS Long-Term Grazing Ley for Wet Conditions

Do you have a wet-lying, poorly drained field which is difficult to manage successfully? Most farms do!

The problem with such fields is that perennial ryegrasses tend not to persist in very wet soils over the winter.

Within a short space of time the natural grasses return and dominate – lowering the productivity of the field.

The solution is PRIMUS. This mixture is a timothy, meadow fescue and white clover ley which has proven over many years to thrive in poor fertility, wet conditions.

With good ley management, PRIMUS will give you:

- A ley that will persist on problem, wet fields
- Cuts of hay and silage
- High yields of quality grazing when fields are dry enough to hold stock

Available in 1 Acre (10 kilo) bags.

PRIMUS Contains:

	Killos
COMER Timothy	2.50
LAURA Meadow Fescue	5.00
ABERNICHE Festulolium	1.50
ABERHERALD White Clover	0.50
ABERSWAN White Clover	0.50
Total	10.00

SALVUS Rejuvenation Mixture

Whether your ley has been damaged through poaching by livestock or the grasses have not persisted due to drought, you can use SALVUS to save your sward.

Specifically formulated by us, SALVUS is a grass and clover mixture that will quickly restore damaged leys to their full production without the need to plough them up.

SALVUS will give you:

- Rapid establishment
- A thicker, sweeter sward
- Early spring growth

Available in 15 kilo bags.

Broadcast or Direct Drill at 5-10 kilos per acre, depending on the original grass condition.

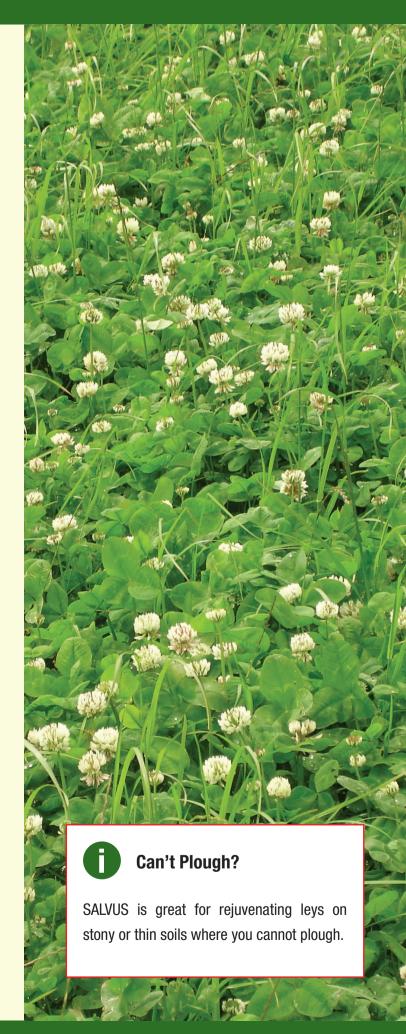
SALVUS Contains:

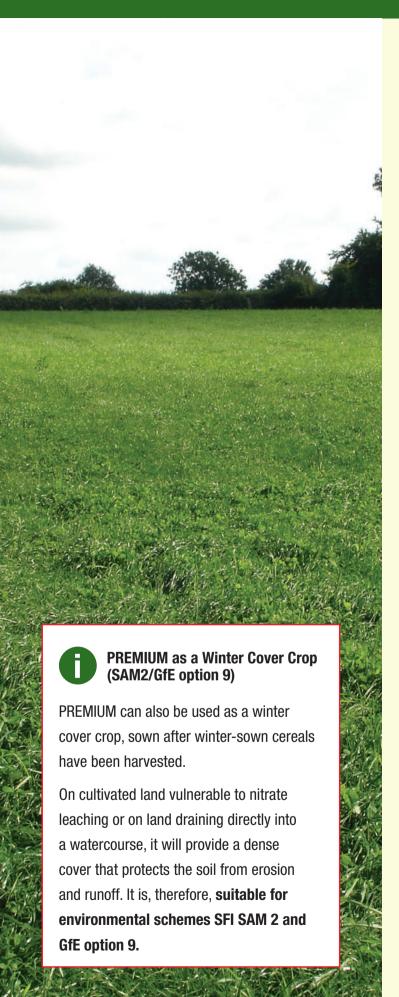
	KIIOS
ABERECHO Hybrid Tetraploid Ryegrass	4.00
ABERZEUS Diploid Intermediate Perennial Ryegrass	2.00
ABERCLYDE Tetraploid Intermediate Perennial Ryegrass	3.50
ABERAVON Diploid Late Perennial Ryegrass	4.00
ABERHERALD White Clover	0.75
ABERSWAN White Clover	0.75
Total	15.00



SALVUS PLUS Herbal ley

SALVUS can be supplied with herbs PUNA II/ENDURE Chicory Blend and AGRI TONIC Plantain to create a herbal ley.





PREMIUM Undersowing Mixture

PREMIUM has been specifically designed as a **cover crop** for undersowing spring-sown cereals as part of your cereal tillage crop rotations.

Used under a spring **WS Cereal Blends** (see page 35-38) or under a **Combicrop®** (see page 39-47) PREMIUM will improve the soil structure and capture any residual nitrogen and other plant nutrients, thus increasing soil fertility.

The carefully selected grasses used in PREMIUM will not grow through the cereal crop and so will not cause problems at harvest.

PREMIUM increases the productivity of your farm by providing you with worm-free grazing from autumn (after the cereal is harvested) until the following spring (when you plough for the next cereal crop/reseed).

PREMIUM will give you:

- Improved sustainability of spring cereal cropping
- 7 months of clean worm-free grazing (from September to March)
- Winter cover for wildlife
- Improved soil structure/texture
- Reduced soil erosion over winter
- Increased soil fertility

Available in 15 kilo bags.

Sow at 4 to 5 kilos per acre.

PREMIUM Contains:

	VIIOS
ABERWOLF Diploid Intermediate Perennial Ryegrass	10.50
ABERAVON Diploid Late Perennial Ryegrass	3.50
ABERDAI White Clover	1.00

Total 15.00

BANNER Dual-Purpose Herbal Ley for Dryer Conditions

BANNER is a 5+ year, dual-purpose white clover herbal ley specifically formulated to improve the yield and quality of herbage in farming areas where summer drought is a common occurrence.

The mixture contains herbs to increase summer yield palatability, as well as the festulolium grass **AberNiche** which has a superior water/nutrient searching root system.

BANNER will give you:

- Early high-quality spring growth for grazing
- A large cut of silage and grazing before lack of rainfall temporarily restricts herbage growth
- A thick, persistent sward which helps to control forage and arable weeds
- Highly palatable forage with increased summer yields
- Improved soil structure with its large root system

Available in 1 Acre (13 kilo) Bags.

BANNER Contains:

	KIIUS
ABERECHO Hybrid Tetraploid Ryegrass	1.80
ABERCLYDE Tetraploid Intermediate Perennial Ryegrass	2.00
ABERNICHE Festulolium	1.00
ABERGAIN Tetraploid Late Perennial Ryegrass	2.00
ABERSPEY Tetraploid Intermediate Perennial Ryegrass	2.00
ABERAVON Diploid Late Perennial Ryegrass	3.00
ABERHERALD White Clover	0.50
ABERSWAN White Clover	0.50
PUNA II/ENDURE Chicory Blend	0.06
AGRI TONIC Plantain	0.11
BURNET Herb	0.02
YARROW Herb	0.01
Total	13.00





MERIT Short-Term Ley

If you need a short-term ley mixture that will give you early spring grass for your sheep, cattle or cows then MERIT is for you.

MERIT contains two high-quality tetraploid ryegrasses (**AberEcho** and **AberImage**) together with the Italian ryegrass **Star**, all of which are proven in farming situations.

Sown after your cereals have been harvested, Merit will give you:

- 2+ years forage
- Quick, early growth
- Herbage for autumn/early winter
- Early spring grass for sheep, cattle or cows, followed by conservation

Available in 1 Acre (15 kilo) bags.

MERIT Contains:

	141100
ABERECHO Hybrid Tetraploid Ryegrass	5.00
ABERIMAGE Tetraploid Ryegrass	4.00
MURIELLO Diploid Italian Ryegrass	4.00
ABERSWAN White Clover	1.00

Kilos

Total 14.00



Cutting for Silage?

You can sow MERIT in spring to produce large cuts of silage for over two years.

PRIZE - Paddock Mixture

Paddocks used for grazing horses or ponies need different grasses from those used for farm livestock.

PRIZE is a premium-quality grass mixture designed specifically for equines. It does not contain ryegrass which can be detrimental to your horses' health, particularly if they are prone to laminitis, cushings or EMS.

With good pasture management, PRIZE will give you:

- First class grazing for your horses over many years
- A quality hay or haylage crop, if required.

Available in 1 Acre (10 kilo) bags.

PRIZE Contains:

	Kilos
COMER Timothy	3.00
LAURA Meadow Fescue	4.00
CONNI Smooth Stalked Meadow Grass	1.50
CORIAL Strong Creeping Red Fescue	1.00
RIDU Hard Fescue	0.50
Total	10.00





CS SW7

PRIZE can also be used for Agri Grant Scheme CS SW7 (see page 5)



NO RYEGRASS

Agricultural ryegrass/clover grass mixtures are often sold as suitable for horse paddocks. **They are not**.

Agricultural ryegrass/clover mixtures are bred to produce high sugar forage that will give rapid weight gain and high milk production in livestock. When kept at a young stage by grazing, the ryegrass is also low in fibre.

These are the exact opposites of what is needed for healthy horses and ponies.

PRIZE does not contain ryegrass or clover. The grass varieties it contains provide the best grazing for equines.

Western Seeds (WS) Arable Silage

Western Seeds (WS) Arable Silage mixtures are unique in the U.K. They have been specifically designed to **ensure the successful reseeding of a new ley** such that you get the full potential from the grass mixture sown, so maximising profits over the length of the ley.

WS Arable Silage is NOT a wholecrop. This is a common misunderstanding.

Wholecrop is usually harvested in 15 to 16 weeks, when the grain is at cheesy stage. This is not good for re-seeding because the cereal cover is on the seedling grass for too long. The result is too much grass being lost due to lack of light and a thin weedy ley that doesn't perform well.

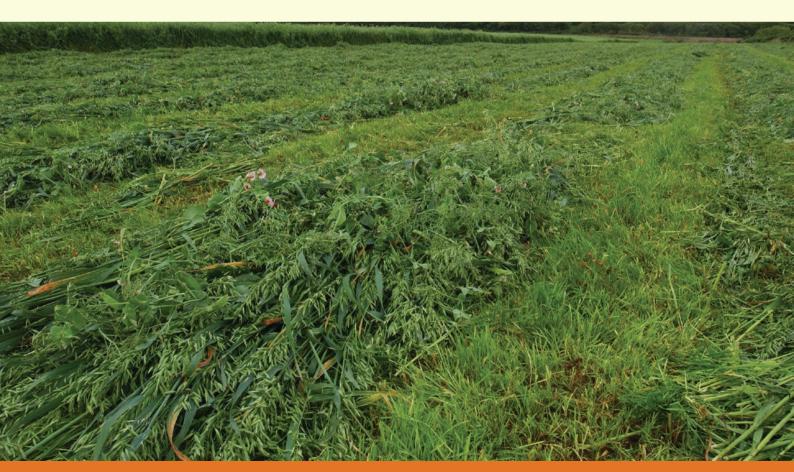
WS Arable Silage mixtures are harvested in just 9 to 10 weeks, allowing the new ley to establish well.

WS Arable Silage will yield 6+ x 600 Kilo (approx.) big bales per acre.



The benefits of WS Arable Silage mixtures:

- No rats in the big bales or clamps
 because there is no grain in the arable silage for them to eat
- Makes up for any loss of herbage production when sowing grass in spring
- Allows you to produce a weed-free, thick, dense new ley which is clean (worm-free) in just 9-10 weeks
- Better establishment of clover, especially red clover

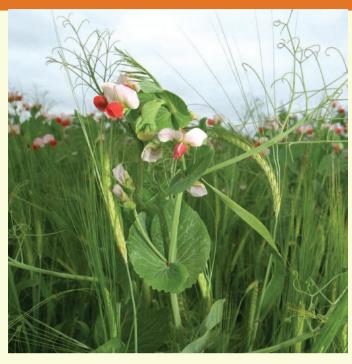


REWARD Arable Silage

- Spring Barley
- Spring Forage Pea

Sow at 50 kilos per acre.



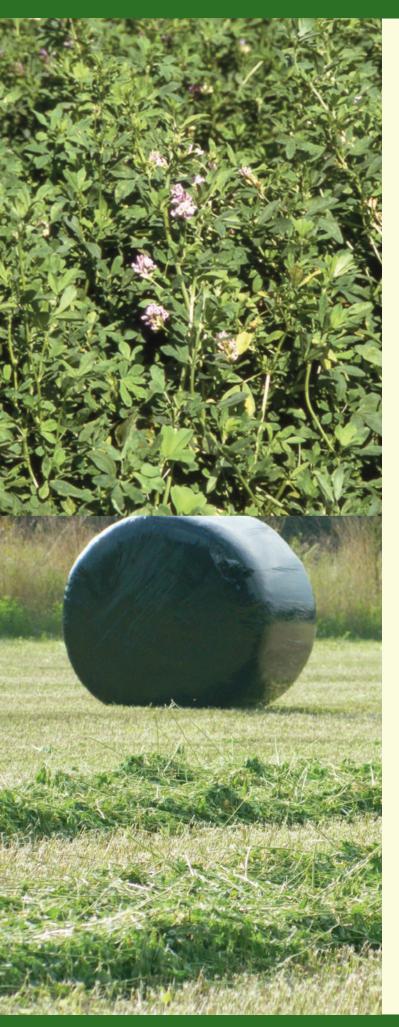


LIBERTY Arable Silage

- Spring Oats
- Spring Forage Pea

Sow at 50 kilos per acre.





LUCERNE High Protein Cutting Forage for Dry Areas

LUCERNE is a cutting forage that will thrive in deep, free-draining, dry soil conditions. As such, it is particularly valuable in those areas which can experience low rainfall in the growing season – such as dry coastal locations and rain shadow areas inland.

LUCERNE prefers a soil lime analysis of pH 7+. It is deep rooting and produces its own root symbiotic nitrogen. This means it requires only phosphate and potash from the bag, or NPK from your own farm manure.

Buying the correct variety of LUCERNE for growing in the U.K. is **vitally important** – we do not sell Southern European varieties as these will not thrive in our colder, wetter winters.

Given a suitable location and the correct growing conditions, LUCERNE from Western Seeds will:

- Give impressive quantities of cut fodder
- Produce a high-protein forage which works well with high-starch wholecrop in quality forage diets



TOP TIP

To control weeds in the crop sow Timothy and/or Meadow Fescue as a companion crop.

NEW - PROTECT Post-Maize/Cereal Cover Crop

Growing forage maize in the higher precipitation areas of the UK can be problematic, as harvest usually takes place in late September, October, or even November in some seasons.

Such late harvesting of the crop can result in long-lasting mechanical damage to the soil structure, which can lead to severe erosion of the unprotected soil and a reduction in future cropping.

Western Seeds was instrumental in introducing the first maize drill to the UK that allowed maize to be drilled and then covered with a degradable plastic film. This technique, which remains popular to this day, brought forward the harvest date and improved yield.

Western Seeds also introduced PREMIUM, which can be sown into a standing maize crop in early summer, protecting the soil and improving its structure.

If you were unable to sow PREMIUM into your standing maize crop, then PROTECT is for you.

PROTECT is a low-cost, 1-year, ley designed specifically to be sown after harvesting maize or cereals. It will establish quickly to cover the soil, protecting it from erosion and run-off over the winter months.

PROTECT can be used as an early bite for cows/sheep and for cuts of silage. It will act as a grass break in your cropping rotations.

Sow at 35 kilos per Hectare (14 kilos per acre)

PROTECT contains:

40% Diploid Italian Ryegrass 60% Tetraploid Hybrid Ryegrass





Grant Aided

PROTECT meets the grant criteria for the Welsh "Growing for the Environment" Autumn sown cover crops option and the English Countryside Stewardship SW6 option.



Want Clover in Your Cover Crop?

If clover is required in your mixture, then use MERIT (see page 18)

Maize Growing In Wales

There are many parts of the U.K. which are designated as less favourable areas for growing Maize. South West Wales is one of them.

If the maize grower is intending to feed forage maize with other forages (such as the high-protein/high-sugar silage from MAGNUM, see page 8), it is important that a very early variety of *high starch maize* variety is selected to grow on farm.

The combination of a *high starch maize* and a quality grass silage when fed to cows and beef cattle enables the maximum utilisation of the total feed in the rumen.

Stock total dry-matter intake usually increases with this combination of forages, which can translate into increases of milk and meat and the possibility of reduced purchase of production concentrates.





The aim is a healthy well-fed herd of cattle, with improved animal margins over feed costs, leading to overall increased profitability.

Which Forage Maize Varieties are Profitable to Grow in the Less Favourable Areas of the U.K?

Select a variety of maize based on the farm's particular requirements.

Characteristics such as:

- Early harvest with high dry-matter percentage
- High percentage starch content of whole plant at harvest
- Whole starch yield at harvest (tonnes/hectare)
- Cell wall digestibility percentage of harvested maize crop are all important.

Western Seeds Have Long Experience Of Marketing Maize Seed In The South West.

Over the years we have conducted numerous maize trials.

We were the **first to introduce into the U.K.** the process of growing maize under plastic film.

We wanted to have a maize growing system in place which would improve the starch percentage of the *very late ripening maize varieties* which were the best available at that time. This proved extremely effective.

With new improved maize/plastic drills becoming available, maize is still being drilled and covered with a plastic film.

However, after monitoring many maize crops over recent years, we are questioning the financial viability of continuing to grow maize under plastic.

We now have available to sow in the south-west **very early ripening maize varieties**. These varieties yield very high levels of digestible dry matter yields and excellent levels of starch of whole plant and overall yield of starch at harvest without the use of plastic film.

We can, therefore, no longer encourage the use of plastic film to grow quality forage maize on farm.

Three Quality Maize Varieties Suitable for Growing in the South West

We have selected for you two maize varieties which are at the top of the 2024 Forage Maize Descriptive List for less favourable sites and one that is expected to be first choice in the 2025 list.

DUKE - Limagrain

CITO - KWS

AUGUSTUS - KWS

All varieties are sold as treated seed.

DUKE, CITO KWS and AUGUSTUS KWS in normal climatic growing conditions will give you the very best chance of achieving the quality maize feed required.

	FAO	Dry matter yield (t/ha)	ME of fresh plant at harvest (MJ/kg dry matter)	ME yield of fresh plant at harvest ('000s MJ/ha)	Starch content of whole plant at harvest (%)	Starch yield of whole plant at harvest (t/ha)	Cell wall digestibility (%)
DUKE*1	140	18.0	11.8	212	36.5	6.6	58.4
CITO KWS	150	16.7	12.1	202	39.9	6.6	60.0
AUGUSTUS KWS	160	16.8	11.9	200	38.0	6.4	59.2

^{*1} New estimated position on BSPB/NIAB 2025

Herbs & Clover

QUATRO General Purpose Herb Mixture

This mixture contains a balanced mix of four herbs selected for their deep roots and palatability to all livestock.

Available in 1 kilo packs.

Contains:	Kilos
AGRI TONIC Herb	0.55
PUNA II Chicory	0.30
BURNETT Herb	0.10
YARROW Herb	0.05
Total	1.00

PUNA II Chicory

PUNA II Chicory is a broad-leaved, perennial forage crop that gives high yields of very palatable feed for grazing livestock.

It has a high mineral content – including zinc, potassium and copper – making it a nutritious feed.

PUNA II is drought tolerant and re-grows rapidly after grazing.

Available in 1 kilo packs.

AGRI TONIC Plantain

AGRI TONIC is a forage plantain that is particularly useful in dry summer months. High in essential minerals, it provides easily digestible forage for stock.

Available in 1 kilo packs.

SELECT Rejuvenation Clover Blend

SELECT clover blend contains a mixture of large and medium clover varieties suitable for rejuvenating the clover content in established leys.

SELECT will:

- Produce free nitrogen to improve grass growth
- Provide palatable forage for stock, increasing their grass/clover intake and so producing more milk, beef and lamb from your ley

Sow at 1-2 kilos per Acre. Available in 10 kilo packs.

Contains:	Kilos
ABERHERALD White Clover	3.00
ABERSWAN White Clover	4.00
ABERDAI White Clover	3.00
Total	10.00



Building Up Your Soil's Fertility

Profitable and sustainable farming is based on our ability to maintain soil fertility.

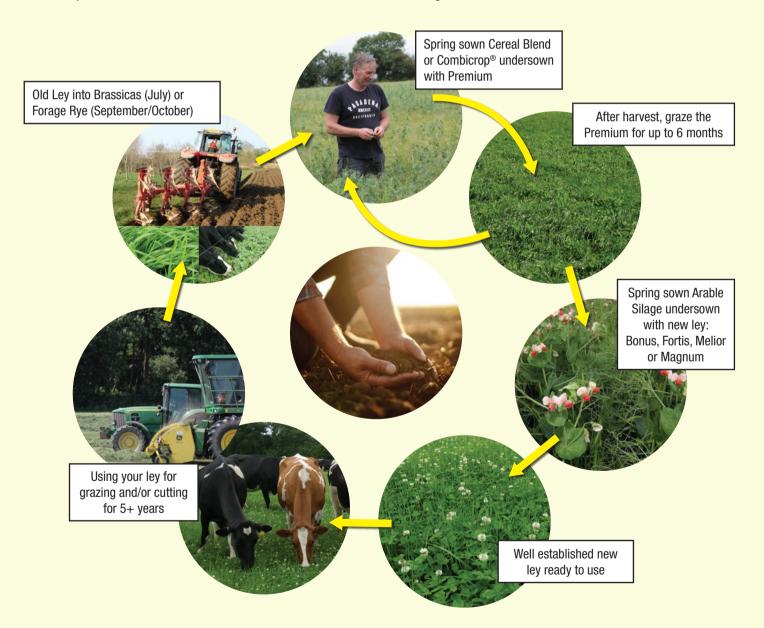
Grass leys are the main fertility building crops, with cereals the main fertility depleting crops.

Good, effective crop rotations are the key to maintain soil fertility and the health of your bank balance.

All farms are different in their potential to produce saleable products off farm.

At Western Seeds we have the proven knowledge and quality seed to help you establish a sustainable farm rotation that works for you:

- Combicrops®, Cereal Blends and Arable Silage mixtures
- Full range of herbage leys
- Soil protection/fertility building mixtures and stock forage mixtures



Example of a Western Seeds rotation

Give us a call, we are happy to help you design a rotation that will work for you.

Forage Cover Crops

The utilisation of a good quality short term forage crop in a farm rotation has many financial, soil and forage benefits.

The comprehensive list of forage mixtures below, tried and tested over many years, will give farmers the option to select the best mixture most suitable for their farming situation.

Species	Features & Benefits	Sowing Rate
RAPID – rape/kale/stubble turnip mixture	Fast to establish	Direct Drill: 3 Kgs/Acre
	Very palatable to stock	Broadcast: 4 Kgs/Acre
SPRINT – forage rape mixture	Better disease resistance	Direct Drill: 3 Kgs/Acre
	Increased intake	Broadcast: 4 Kgs/Acre
TEMPO – stubble turnip mixture	High yielding	Direct Drill: 2 Kgs/Acre
	More palatable than single variety	Broadcast: 3 Kgs/Acre
LOMOND – swede	Winter hardy	Grade H:
	High yields, high energy	Precision Drill 250-350 grams/Acre
	Powdery mildew/clubroot tolerance	Natural:
	Suitable for human consumption	Direct Drill 1 Kg/Acre
		Broadcast 2 Kgs/Acre
Keeper Kale	High yields	Direct Drill: 1 - 2 Kgs/Acre
	Winter hardy	Broadcast: 3 Kgs/Acre
HUMBOLT – grazing rye	Early-bite	75 Kgs/Acre
	Winter hardy	
RAPID PLUS – rape/kale/stubble turnip/	All the benefits of RAPID	10 kgs/Acre
vetch mixture	Increases soil nitrogen	
SPRINT PLUS- forage rape/vetch mixture	All the benefits of SPRINT	10 Kgs/Acre
	Increases soil nitrogen	
TEMPO PLUS – stubble turnip/vetch	All the Benefits of TEMPO	10 Kgs/Acre
mixture	Increases soil nitrogen	
HUMBOLT PLUS – grazing rye/vetch	All the benefits of HUMBOLT	75 Kgs/Acre
mixture	Increases soil nitrogen	



FORAGE PLUS Mixtures

Mixing a suitable vetch with a forage mixture:

- Increases the overall forage quality and yield
- Increases the residual soil nitrogen for future cropping
- Improves the soil structure

Brassica Plus Mixtures

Our Brassica Plus mixtures combine all the benefits of our forage brassica mixtures with the additional benefits of added vetch which:

- Improves the palatability of the feed
- Increases soil nitrogen availability for future cropping in the spring
- Gives the possibility of grazing the vetch in spring, before ploughing



SPRINT PLUS

Forage Rape & Vetch Mixture:

10% INTERVAL Forage Rape70% HOBSON Forage rape

20% EBENA Vetch

Direct drill or Broadcast at 10 kilos per acre

TEMPO PLUS

Stubble Turnip & Vetch Mixture:

30% VOLLENDA Stubble Turnips25% SAMPSON Stubble Turnips25% RONDO Stubble Turnip

20% EBENA Vetch

Direct drill or Broadcast at 10 kilos per acre

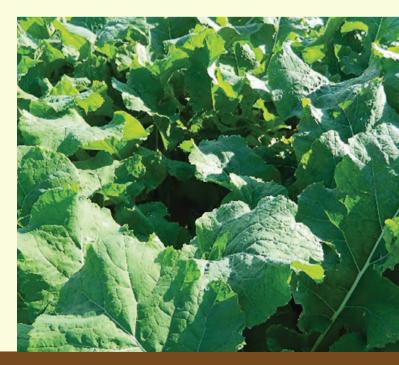
RAPID PLUS

Rape/Stubble Turnip & Vetch mixture:

23.7% VOLLENDA Stubble Turnips
8.0% SAMPSON Stubble Turnip
8.0% RONDO Stubble Turnip
40.0% HOBSON Forage Rape
0.3% KEEPER Kale

20.0% EBENA Vetch

Direct drill or Broadcast at 10 kilos per acre



Brassica Mixtures





TEMPO Stubble Turnip mixture

TEMPO is a mixture of two first-class varieties of stubble turnips. This combination reduces leaf disease and increases stock intake. It has very fast establishment and excellent high yields making it ideal for sheep, beef and dairy cattle.

RAPID Rape/Kale/Stubble Turnip mixture

RAPID is a first-class blend of forage rape and leafy stubble turnip. It is fast to establish and produces a very palatable high-protein crop for all stock.

- Direct drill at 3 kilos per acre
- Broadcast at 4 kilos per acre

RAPID Contains:

29.7% VOLLENDA Stubble Turnips

10.0% SAMPSON Stubble Turnips

10.0% RONDO Stubble Turnip

50.0% HOBSON Forage Rape

0.3% KEEPER Kale

SPRINT Forage Rape mixture

SPRINT is a top quality mixture containing two highyielding forage rape varieties. This mixture helps to reduce leaf disease. Crops with less disease have higher yields and are more palatable to stock. SPRINT produces a very thick crop for feeding to all stock.

- Direct drill at 3 kilos per acre
- Broadcast at 4 kilos per acre

SPRINT Contains:

10% INTERVAL Forage Rape

90% HOBSON Forage rape

- Direct drill at 2 kilos per acre
- Broadcast at 3 kilos per acre

TEMPO Contains:

33% VOLLENDA Stubble Turnips

33% SAMPSON Stubble Turnips

34% RONDO Stubble Turnip

LOMOND Swede

Swedes can be grown on a wide range of soils, including sandy loams, silts, peat or clay loams.

LOMOND swede is particularly good for finishing lambs. It is a high energy, cost effective feed that produces dry matter yields of 2.8-4.0 tonnes per acre, with 82% digestibility.

Bred in Scotland for U.K. conditions, it shows good tolerance to both powdery mildew and clubroot and suffers less from rots and splits in its roots.

LOMOND swede is also suitable for human consumption.

Available as Grade H seed for precision drilling at 250-350 grams per acre

Also available as Natural seed for direct drilling at 1 kilo per acre or broadcasting at 2 kilos per acre

KEEPER Kale

Kale grows best on a medium loam soil with a pH of around 6.5.

KEEPER Kale is a medium/short leafy variety. It is fast-growing crop and gives higher yields than rape/kale hybrids. It is very winter hardy and exhibits good lodging resistance. It also has low SMCO levels (an antinutritional chemical).

These attributes, together with its flexible utilisation period and excellent crude protein content, make KEEPER kale ideal for finishing lambs and providing high quality winter keep.

Direct drill at 1-2 kilos per acre or Broadcast at 3 kilos per acre.





Can't See What You Want?

For details of other Forage Cover Crops and Green Manures we sell please call us:

+44 (0)1834 861 904

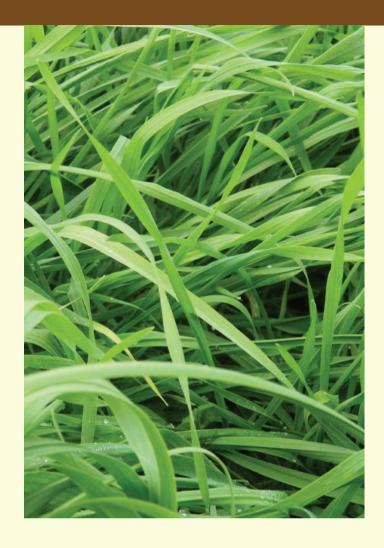
HUMBOLT Grazing Rye Economical & Reliable

HUMBOLT Grazing Rye has a large, fibrous rooting system which improves the soil structure and helps reduce erosion over winter.

Rye is a potent allelopathic crop, producing benzoxazinoids and phenolic compounds which minimise weed growth over autumn - winter - spring.

HUMBOLT Grazing Rye has the following benefits:

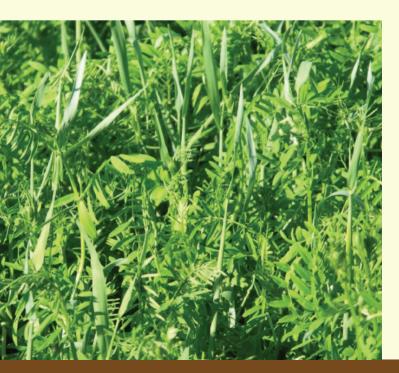
- Helps build humus & improves soil structure
- Helps minimise soil nutrient loss over the winter months – reducing possible water pollution of streams & rivers
- Provides an early bite of high-quality forage (grazed or zero-grazed), which is especially important if forage (winter feed or early grazing area) is in short supply



Considerably reduces spring germinating weeds, when the crop stubble is incorporated into the soil by ploughing in spring

Available as conventional seed only

Sow September - October at a rate of 75 kilos per acre, preferably in a free-draining, dry, sheltered field.



HUMBOLT PLUS – Grazing Rye with Vetch

Our HUMBOLT PLUS mixture contains VETCH. It will give you all the benefits of HUMBOLT forage rye and will also enhance soil nitrogen in spring for future cropping.

HUMBOLT PLUS can be used for environmental grant options SFI SAM2 and CS SW6 (see page 4).

Sow September – October at the rate of 75 kilos per acre, preferably in a free-draining, dry, sheltered field

Environmental Seed Mixtures

Seed specifications for grant aided environmental mixtures can change rapidly from year to year.

Illustrated are two of our most popular environmental mixtures.

We have seed available in store to produce any environmental mixture you require. Please email or phone us with the specification of the mixture you require and we will price it up for you.

WINTER BIRD Annual Mixture (SFI AHL2)

This annual seed mixture contains a blend of varieties selected to provide an abundant and available supply of small seeds for farmland birds during the autumn and winter months.

Sow in a sunny, fertile area to provide an important food resource for farmland birds.

Available in 20 kilo (1/2 Hectare) bags

30% Spring Oats 4% Mustard

30% Spring Barley 3% Fodder Radish

30% Spring Wheat

3% Linseed

GALLANT Decorative Cover Crop Mixture (CS AB9, SFI AHL2)

This mixture contains species selected to provide seed and cover for birds and also provides an important food resource for insects. It flowers over a long period of time to provide nectar for insects and will deliver food for birds from May to December/January.

When in full flower it is visually very pleasing. It can, therefore, be sown in prominent areas on the farm to provide a highly decorative, environmentally beneficial feature.

Unlike other winter bird food mixtures, it does not contain cereal.

Available in 12.5 kilo (0.5 Hectare) bags

25% Buckwheat 15% Phacelia 30% Sunflower 5% Forage Rape 15% Mustard 5% Red Millet

5% White Millet





Amenity Grass Seed

Specialist Mixtures to Achieve Perfection

Grass is not just grass! How your amenity grass area is used will determine what mixture is required to achieve the best results. For example, a mixture that is suitable for a bowling green would be entirely unsuitable for a shaded lawn!

Our seed professionals have wide experience, gained over more than 40 years, of selecting the right grass varieties for different uses and can advise you on the best and most cost-efficient solution for your amenity grass needs.

General Purpose Lawn Mixture

This is our most popular lawn mixture and will give you a superb first-class lawn with the added advantage of being hard-wearing and so suitable for children to play on.

Sow at 50g per m²

Shaded Lawn Mixture

Growing a good lawn in shady or low-light conditions is not easy. Our Shaded Lawn Mixture is designed for exactly this situation. Use it to establish a lawn under trees and in shady areas, near walls or houses.

Sow at 50g per m²

Ornamental Lawn Mixture

If you want a fine lawn with a "bowling green" finish that will show off your home to its best advantage, then our Ornamental Lawn Mixture is for you. Using the highest quality fine grasses, this mixture will produce a superb classic "striped" lawn.

Sow at 50g per m²

Meadow Mixture

There is a rising interest in the creation of environmentally friendly gardens which attract wildlife. Our Meadow Mixture contains the very best STRI recommended smooth-stalked meadow grasses mixed with 20% UK-native wildflowers. It creates an area of natural meadow that not only looks beautiful but provides a haven for wild birds, butterflies and bees.



Western Seeds (WS) Cereal Blends

More Crop in Your Pocket

We have been indoctrinated into growing the maximum cereal yield possible - regardless of the cost of the variable inputs we use and the damage done to the environment.

The current prohibitive costs of nitrogen, herbicides, fungicides and insecticides utilised in growing conventional cereal crops gives farmers a dilemma: either reduce their use of these expensive inputs and suffer reduced grain tonnage or continue to use them despite the cost. Both these scenarios mean that profitability will become difficult to achieve.

For over 40 years Western Seeds have invested in research and development of cereal blends and are now convinced more than ever that spring cereal blends are the most financially viable way to grow all cereals in the U.K. - especially in the wetter west.

Our professionally produced cereal blends have been shown to reduce/eliminate all cereal foliar diseases.

Feedback from growers of WS Cereal Blends U.K. wide confirm its overall profitability.

The varieties chosen for our unique WS Cereal Blends mean that most farmers who are growing them use seed-bed NPK and a pre-emergence herbicide spray only, then close the gate until harvest time. By reducing the amount of nitrogen, herbicides, fungicides, insecticides, straw stiffeners used, their profits are raised.

If you haven't yet considered a WS Cereal Blend, give it a try for spring 2024.





OVATION Wheat Blend

Many modern spring wheat varieties rely on applications of fungicides to keep them disease-free. This is not the case with OVATION.

OVATION is a mixture of spring wheat varieties specifically selected by us to ripen at the same time and also to have good disease resistance to cereal fungal diseases.

In most situations a pre-emergence herbicide is all that is needed to control weeds. By significantly reducing other input costs **OVATION leaves more of the crop in your pocket!**

OVATION Wheat Blend:

- Gives good yields without the use of expensive fungicides, insecticides, straw stiffeners or trace element foliar sprays
- Produces quality grain and straw

OVATION can be combined dry, crimped or wholecropped.

Sow at 100-125 kilos per acre.

Delivered in 600 kilo, 300 kilo and 25 kilo bags – mixed and ready for you to drill.



Profitable to Grow

Grow **OVATION** Wheat Blend using minimal inputs for:

- Combining dry
- Crimping
- Wholecrop

ADVANCE Barley Blend

Do you want to bring your spring barley costs down?

Do you also want a good crop of grain? If the answer to these two questions is "Yes", then look no further than ADVANCE.

ADVANCE is a precise mixture of spring barley varieties selected specifically by us for their uniform ripening, diverse disease resistance, improved yields, grain sample, straw quality and quantity. We regularly update ADVANCE as new varieties become available from the plant breeders, rigorously testing it at our trial sites before it is marketed.

The varieties used in ADVANCE enable farmers to grow a field of spring barley without the need of expensive fungicides, insecticides or straw stiffeners. In most situations only a pre-emergence herbicide is needed to control weeds.

ADVANCE can be combined dry, crimped or wholecropped for animal feed. It is not suitable for malting as single varieties are required by the maltster, but we can supply a quality malting variety if required.

Sow at 75 – 100 kilos per acre

Delivered in 600 kilo, 300 kilo and 25 kilo bags – mixed and ready for you to drill.





CONCERT Oat Blend

Many oat varieties available for growing in the wetter regions of the U.K. are susceptible to foliar fungal disease. This often attacks the crop late – usually after heading – causing farmers a problem.

CONCERT is different. It has been developed by us to lessen (and in many cases eliminate) foliar disease in the crop.

The precise mixture of specially selected spring oat varieties in CONCERT will give you **high yields**, **good grain samples and lower growing costs**.

CONCERT is suitable for combining dry, crimped or wholecropped for animal feed and has the added benefit of improved straw-feeding quality.

Sow at 75 kilos per acre

Delivered in 600 kilo, 300 kilo and 25 kilo bags – mixed and ready for you to drill.



Loved By Millers

CONCERT is particulally liked by millers because of its high-quality grain sample.

Combicrop®

The Complete Product for Successful Modern-Day Farming

The practice of growing a cereal and legume together to provide food for man and beast has a long history stretching back over many generations.

More than two decades ago, and working on former established principles, the R&D team at Western Seeds first formulated, developed and then extensively trialled the mixtures making up our **unique**, **registered brand Combicrop**®.

Not to be confused with imitations promoted under similar names, Combicrop[®] is the complete product for modern-day farming and is suitable for combining dry, crimping and whole cropping.

Following their introduction our Combicrop® mixtures instantly dominated agricultural sales, as farmers quickly recognised their many benefits.

Good news travels fast.

The Benefits of Growing a Spring Combicrop®

- Large reduction in bought-in nitrogen Combicrop® produces its own.
- Growing a cereal and a pulse together eliminates leaf fungal diseases dispensing with the need for expensive fungicides and insecticides.
- Very useful **residual nitrogen** is available in the soil after the harvested crop. This nitrogen can be held and stabilised in soil with the use of Premium (see page 48) ready for the next Combicrop® or reseed with a grass ley.
- Harvested Combicrops® produce higher yields and increase protein values by between 30% to 50% compared with single variety crops.
- Many growers report a large improvement in soil structure after growing Combicrop® which helps farmers
 meet government grant payments

Growing Combicrop® means **more profit** from the crop you grow, as you reduce your spend with the purveyors of cereal crop inputs!

GfE Combicrop®

Under Option 7 and Option 8 of the Welsh "Growing for the Environment" agri scheme, grants are available for growing unsprayed cereal and protein crops.

To qualify for these grants, the mixture sown must contain 50% Cereal and 50% protein seed by weight.

Our **GfE Combicrop**® has been specifically formulated to meet the criteria for these two options.

Harvested as a silage wholecrop, when the cereal is at the grain cheesy stage, **GfE Combicrop**®:

- Reduces overall crop leaf disease
- Produces a high-protein wholecrop
- Leaves a large amount of leguminous (pea) nitrogen residue in the soil, which is excellent for the following crop to use

Available as barley/peas, wheat/peas, oats/peas or as a barley/oat/wheat/pea mixture.

Sow at 100 kilo per acre

Available in 600 kilo, 300 kilo and 25 kilo bags - mixed and ready for you to drill



Combicrop® & Free Residual Nitrogen

The combinable peas, which form part of our cereal/pea Combicrop® mixtures, not only increase the protein content of the crop but also play a valuable role in providing nitrogen to feed the cereal as it grows, improve the soil structure **and** provide free residual nitrogen for the following crop.

European trials estimate that the total accumulation of pea fixed leguminous nitrogen is around 250 kilos per hectare (200 units acre).

These trials estimated that the rate of nitrogen fixation by the peas gradually increased during the pre-flowering growth stages, reaching a maximum of 10 kilos nitrogen per hectare (8 units nitrogen per acre) per day just nine to ten weeks after seedling emergence.



Using Combicrop®

Combicrop® is an early, safe harvest that is easy to grow. If you can grow cereals, you can grow Combicrop®.

It is also an extremely versatile crop and can be combined dry, crimped or wholecropped to produce very palatable, high-protein, high-starch feed for your stock.

Combicrop® Combined Dry

When combined dry, Combicrop[®] gives a protein percentage approximately 50% higher than straight cereals. When the grain (cereal and pea) is rolled or ground it produces a ready-made concentrate of **13% to 16% protein**.

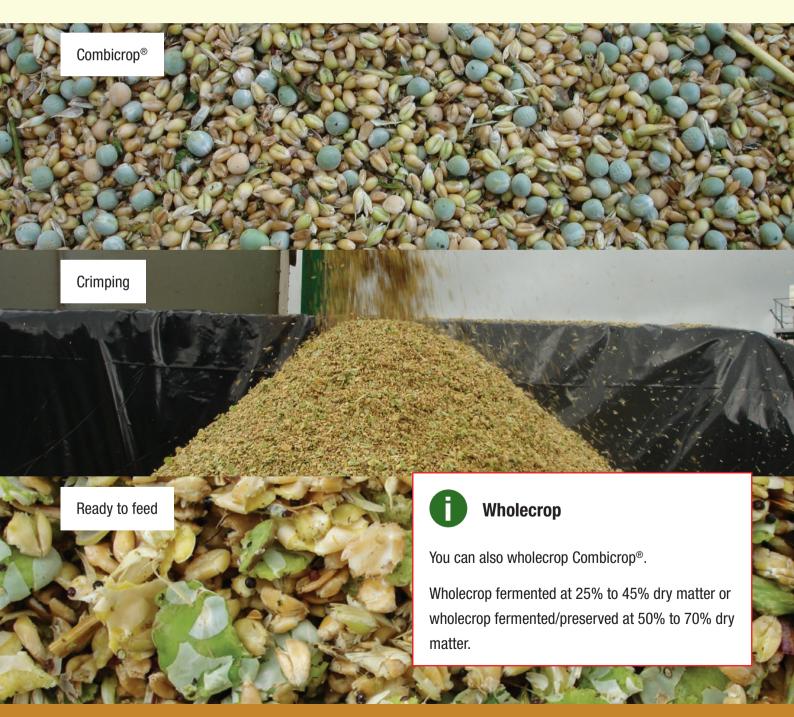
The cereal straw and pea haulm also have a high feed value, enhanced by low foliar disease on the crop.



Combicrop® Crimped

Crimping Combicrop® eliminates the need to roll your own dry grain over the winter. The crop will also be cut earlier for crimp, so enhancing the feeding value of the cereal and giving you a high-value cereal/pea haulm straw to feed to your stock.

Note: The higher protein percentage in the Combicrop® crimp will mean that an additive, different from a straight cereal crimp additive, will be needed for preservation.







The Sustainable Way To Grow Your Own Protein & Starch

Use Combicrops® to easily and profitably grow your own high-protein, high-starch feed.

CHAMPION Combicrop®

CHAMPION Combicrop® is a unique blend of spring wheats and combining peas. This blend lowers the disease susceptibility of the crop.

It will give a total crop yield equal to, and in many cases higher, than straight wheat and **can be grown without** the use of expensive fungicides or insecticides.

A pre-emergence herbicide can be used for weed control – but always confirm with your regular pesticide adviser.

On highly fertile soils **no NPK will be needed** – the peas will easily produce enough free nitrogen for the crop and **leave a substantial residue for the following crop**.

- Combine dry to produce a feed concentrate meal that is high in starch with 13% to 16% protein (50% to 60% more than straight wheat)
- Combined crimped to produce a high quality starch and protein concentrate for dairy cows, followers and fattening / finishing beef cattle
- Wholecrop fermented harvested at 25% to 45% dry matter to feed on its own or with grass silage as a forage for stock
- Wholecrop fermented/preserved harvested at 50% to 70% dry matter for feeding with other conserved forage

CHAMPION Combicrop® is also a soil conditioner and will leave the soil structure very much improved after harvest.

Sow at 100 - 125 kilos per acre.

Delivered in 600 kilo, 300 kilo and 25 kilo bags – mixed and ready for you to drill.

WINNER Combicrop®

WINNER Combicrop® is a unique blend of spring barleys and combining peas. This blend lowers the disease susceptibility of the crop.

It will give a total crop yield equal to, and in many cases higher, than straight barley and can be grown without the use of expensive fungicides or insecticides.

A pre-emergence herbicide can be used for weed control – but always confirm with your regular pesticide advisor.

On highly fertile soils **no NPK will be needed** – the peas will easily produce enough free nitrogen for the crop and **leave a substantial residue for the following crop.**

- Combine dry to produce a feed concentrate meal that is high in starch with 13% to 16% protein (50% to 60% more than straight barley)
- Combined crimped to produce a high quality starch and protein concentrate for dairy cows, followers and fattening / finishing beef cattle
- Wholecrop fermented harvested at 25% to 45% dry matter to feed on its own or with grass silage as a forage for stock
- Wholecrop fermented/preserved harvested at 50% to 70% dry matter for feeding with other conserved forage

WINNER Combicrop® is an outstanding blend that also acts as a soil conditioner that leaves the soil structure very much improved after harvest.

Sow at 100 kilos per acre.

Delivered in 600 kilo, 300 kilo and 25 kilo bags – mixed and ready for you to drill.





Reduce the Need for Expensive Artificial Nitrogen

The nitrogen produced by the peas in Combicrop® feeds the cereal as it grows, reducing the need to apply expensive artificial nitrogen to the crop. The peas also produce free residual nitrogen for the following crop to use.





Important

Do not use a pre-emergence herbicide with **VICTOR** Combicrop[®].

VICTOR Combicrop®

VICTOR Combicrop® is a precise blend of spring oats and a combining pea. It is a low input crop to grow but still achieves first-class feed for young stock, cattle and sheep.

VICTOR Combicrop® is best sown as your last combining crop in your tillage rotation as it will **yield better** than our other Combicrops® in **lower fertility situations**.

It will give a total crop yield equal to, and in many cases higher, than straight oats and can be **grown without** the use of expensive herbicides, fungicides or insecticides.

Growing VICTOR Combicrop® gives you a win-win situation as it not only provides the protein needed to feed your livestock but it also acts as a soil conditioner, leaving the soil structure very much improved after harvest.

On fertile soils **no NPK will be needed** – the peas will easily produce enough free nitrogen for the crop and leave a **substantial residue for the following crop**.

- Combine dry to produce a feed concentrate meal that is high in starch with 13% to 16% protein (50% to 60% more than straight oats)
- Wholecrop fermented harvested at 25% to 45% dry matter to feed on its own or with grass silage as a forage for stock

Sow at 75 kilos per acre.

Delivered in 600 kilo, 300 kilo and 25 kilo bags – mixed and ready for you to drill.

SOVEREIGN Combicrop®

SOVEREIGN Combicrop® is a precise blend of spring oats, spring barley and a combining pea and will give a total crop yield equal to, and in many cases higher, than straight cereals.

It can be grown without the use of expensive herbicides, fungicides or insecticides.

It will produce a thick crop that, with the correct pre-crop management, will smother all weeds (unless the field is very infected).

On your average to fertile fields **NPK** is not needed as the peas in SOVEREIGN Combicrop® will easily produce enough free nitrogen for the crop, with a substantial residue being left for the next crop to use.

SOVEREIGN Combicrop® can be:

- Combined dry to produce a feed concentrate meal that is high in starch with 13% to 16% protein (50% to 60% more than straight oats or barley)
- Wholecrop fermented harvested at 25% to 45% dry matter to feed on its own or with grass silage as a forage for stock

SOVERIGN Combicrop® acts as a soil conditioner that leaves the soil structure much improved after harvest.

Sales of SOVEREIGN Combicrop® are increasing year on year and it is rapidly becoming the favoured choice amongst successful farmers across the country.

Sow at 100 kilos per acre.

Delivered in 600 kilo, 300 kilo and 25 kilo bags – mixed and ready for you to drill.





Important

Do not use a pre-emergence herbicide with **SOVEREIGN** Combicrop®.

Maximising The Productivity Of Your Spring Cereal Fields

PREMIUM is a short-term under-sowing grass and clover mixture designed to provide clean grazing from after cereal harvest until the following spring when either the next cereal crop is sown or a new ley is established under an arable silage.

PREMIUM is a Winter Cover Crop and can be used for Agri Grant Schemes SFI SAM2 and GfE option 9, which attract substantial short-term payments.

PREMIUM under-sown at 4 to 5 kilos an acre will not interfere with your whole crop or combining process in late summer/autumn.

PREMIUM has proven over many years to:

- Reduce soil erosion over winter
- Produce a grass base for slurry applications over the winter
- Provide a winter cover crop for wildlife
- Improve soil structure, to benefit the following spring-sown crop

Available in 15 kilo bags.

Sow at 4 to 5 kilos per acre.

PREMIUM Contains:

	KIIOS
ABERWOLF Diploid Intermediate Perennial Ryegrass ABERAVON Diploid Late Perennial Ryegrass	10.50 3.50
Total	15.00



Cereal/Bean Combicrops®

FORWARD Combicrop®

FORWARD is a precise blend of spring wheats and a spring bean formulated to work well together.

FORWARD needs a good fertile soil to yield well and so works best when it is used as the first cereal in your farm rotation.

FORWARD will yield a high-quality protein production ration when whole cropped or combined dry.

Sow at 100 to 120 Kgs/Acre



BOOSTER Combicrop®

BOOSTER is precise blend of spring oat varieties together with an early ripening bean.

BOOSTER will yield better in less fertile growing conditions than Combicrop® FORWARD, so can be used as the second cereal onwards in your farm rotations.

BOOSTER will yield a high-quality protein production ration when both whole cropped or combined dry.

Sow at 100 Kgs/Acre



GfE Agri Grants

Both these mixtures meet the criteria for GfE Options 7 and 8 (see page 5).



Beans

We can also provide straight beans, if required. Please call us for details.

Our Distribution Centre

We hold large stocks of both Organic and Conventional seed at our main distribution centre.

Seed can be pre-ordered – we will hold it for you until you are ready to collect it or have it delivered to you.

Next day delivery is available - please phone your order by 2pm.



Ordering & Payment Information

Ordering

To order, or for expert advice from one of our seed professionals, please contact our customer support team:

Tel: +44 (0)1834 861 904

Email: info@westernseeds.com

Next day delivery is available – please ensure your order is placed before 2pm.

We do not currently offer weekend delivery.

If you would like to call in and collect your seed, our distribution warehouse is open 09:00 to 17:00, Monday to Friday.

Western Seeds Ltd Distribution Centre Spring Gardens Whitland Carmarthenshire SA34 OHN



Methods of Payment







Payment can be made by bank transfer, cheque, debit or credit card.

Cheques should be made payable to Western Seeds Ltd and posted to our head office:

Clover Park Farm, Narberth, Pembrokeshire, SA67 8EY

Our bank details are:

Account No. 70836923 Sort Code: 20-37-82

IBAN: GB11 BARC 2037 8270 836923

SWIFT Bic: BARC GB22

(We require all international transfers to us to be made with the **OUR** instruction.)

Important Notes

- All seed mixtures correct at time of going to press, errors and omissions excepted
- As the season progresses some varieties occasionally become unavailable. If this happens a similar variety will be used in its place.

We recommend you confirm variety composition at time of ordering.



Western Seeds, Clover Park Farm, Narberth, SA67 8EY +44 (0)1834 861 904, info@westernseeds.com, www.westernseeds.com

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