



EnviroSeeds



CATCH AND COVER CROPS



COUNTRYSIDE STEWARDSHIP



HABITAT CREATION



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CATCH AND COVER CROPS

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Introduction

With the landscape of UK agriculture continuing to change apace, we're delighted to celebrate our fifth year of supporting UK farmers with Countryside Stewardship, conservation and soil health. The EnviroSeeds range continues to grow and evolve its specialist products and guidance to ensure that all your environmental seed needs can truly be found altogether in one place.

Research and development remain at the heart of what we do. That means working with leading European seed breeders and conducting our own independent trials to select species and varieties. It also means continuous learning and improvement – we are always on the lookout for farmers and organisations that want to try something a bit different or get involved with trials. Contact us for more information.

Change and uncertainty seem to be the only constants in UK agriculture legislation in recent years and it's difficult to envisage anything different in 2021 and beyond. A new and evolving relationship with the European Union will mean significant policy changes, but with

the Environmental Land Management (ELM) scheme currently not due to launch until 2024, our EnviroSeeds range continues to focus very much on the here and now. Despite the removal of 'greening' requirements from the Basic Payment Scheme (BPS), cover cropping continues to grow as an integral part of sustainable farm rotations. Countryside Stewardship agreements will be offered through until 2023 and provide some welcome certainty in this ever-changing landscape.

We continue to work with a broad spectrum of organisations such as Flora Locale, Natural England, Buglife and the RHS to ensure we are providing the best possible benefits to the farmed environment through our products. As well as our standard ranges, we offer technical advice and bespoke mixtures, so don't hesitate to get in touch with your requirements if you can't find what you're looking for.

We hope you find this guide a useful and informative tool and look forward to working with you in the coming months.



BENEFITS

Cover crops can be used for a wide variety of purposes, so having a clear idea of what specific aims you want to achieve is paramount in getting the required results. A well composed mixture can have numerous benefits to the soil when integrated carefully in to the crop rotation.

Soil Structure

Cover crops benefit physical soil structure, breaking up compaction and encouraging water uptake. Species such as oil radish produce deep, penetrative roots, but there are many other species that can also be used effectively. Lateral root growth from species such as mustard, and fibrous root networks from species such as black oats and linseed all effectively relieve compaction in different layers of the soil. This root structure combined with the leaf canopy also prevent soil erosion.



Biofumigation

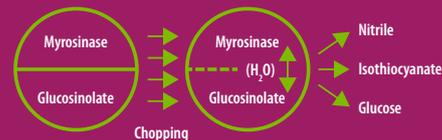
Biofumigation is the process of using plant chemicals to suppress soil-borne pathogens, nematodes, insects and weeds.

When a suitable variety of brown mustard (see Vittasso and Scala) is chopped and incorporated in to moist soil, chemical reactions produce Isothiocyanates (ICT), a natural biofumigant with similar insecticidal effects to Methyl Bromide or Metham Sodium. Scala, and particularly Vittasso, contain very high levels of Glucosinolates in the cell vacuoles. When the crop is finely chopped, the vacuoles burst allowing the enzyme Myrosinase to react with the Glucosinolates.

Unbroken Cell

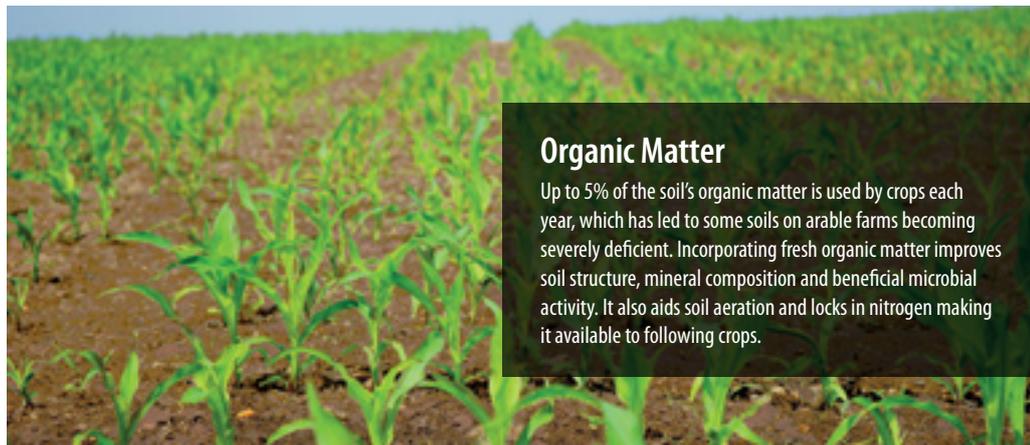


Broken Cell



The result is the production of the biofumigant Isothiocyanate (ICT).

For best effect, the crop should be finely chopped at the point of flower to maximise the Glucosinolate content and then incorporated in to moist soil conditions. Water is essential for the chemical reaction to take place.



Organic Matter

Up to 5% of the soil's organic matter is used by crops each year, which has led to some soils on arable farms becoming severely deficient. Incorporating fresh organic matter improves soil structure, mineral composition and beneficial microbial activity. It also aids soil aeration and locks in nitrogen making it available to following crops.



Nematode Control

Specific varieties of oil radish control certain plant-parasitic nematodes by up to 90%. The roots secrete pheromones which lure the larvae from their cryptobiotic state in the cysts. Then, once in the roots, the larvae are subsequently unable to develop to maturity and die.

Type 1 nematode resistant varieties have the ability to reduce nematode populations by up to 90%.

Type 2 nematode resistant varieties have the ability to reduce nematode populations by up to 85%.

For maximum nematode control, sowing rates should be increased to 25kg/ha to produce high biomass and close root proximity. When crop is 75% in bloom it should be mown to a height of 25-30cm for the plant to regrow. 50kg/ha of nitrogen is required on heavy soils.



Allelopathy

Allelopathy describes the chemical inhibition of one plant by another, due to the release of substances acting as germination or growth inhibitors. Black oats have a powerful allelopathic effect on broad leaved weeds, making them the ideal choice for weed suppression. It is essential to wait a minimum of two weeks after the destruction of a black oat crop before sowing a cash crop to minimise any negative effects from the allelopathic chemicals excreted during decomposition.

Weed Control

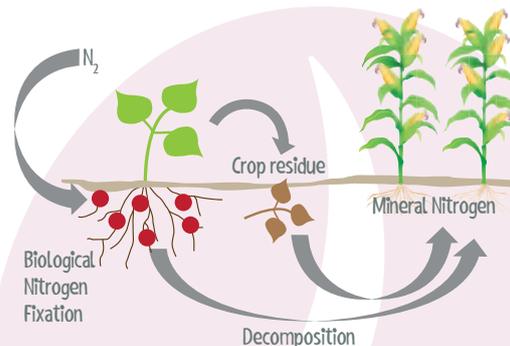
Cover crop species control weeds through light and nutrient deprivation. Faster growing brassica species and phacelia are most effective.

Nitrogen

Additional nitrogen can be made available for cash crops by fixing nitrogen from the atmosphere or preventing nitrogen leaching from the soil.

FIXATION

Legumes fix nitrogen from the atmosphere making it available to the following crops. Quick growing species such as crimson clover and berseem clover are best for short breaks between cash crops, whereas vetches are more effective for a longer growing period. Legumes become most effective at fixing nitrogen when the soil temperature is over 8°C.



LEACHING PREVENTION

Nitrogen and other nutrients are lost through leaching when soil is left bare for any period of time, particularly over the winter when rainfall is high. Scavenging this nitrogen from the soil and holding it for the following crop is often easier and more effective than attempting to fix additional nitrogen from the atmosphere. It can be done effectively with cereals and mustard.

KEY SPECIES

**Black Oat** *Avena strigosa***Variety:** LUXURIAL

LUXURIAL is the leading variety of black oats from European breeder Panam Semences. Developed specifically for the cover crop market, LUXURIAL combines late maturity, rapid establishment and high biomass production.

- More frost sensitive than other cereals
- Allelopathic variety
- Controls root lesion nematode (*Pratylenchus penetrans*)
- Resistant to root-knot nematode (*Meloidogyne hapla*)
- Develops fibrous roots to relieve soil compaction
- Resistant to rust, barley yellow dwarf virus and aphids

Sowing Period: Aug-Oct
Sowing Depth: 1-2cm

Sowing Rate: 50kg/ha
Winter Hardy: NO

**Forage Rye** *Secale cereale***Variety:** POWERGREEN

POWERGREEN is the perfect rye variety for cover crops – suitable for very late sowings, quick to establish and late maturing. Forage rye scavenges nitrogen from the soil making it accessible to the following crop.

- Late maturity and good lodging resistance
- High dry matter yield
- Rapid tillering and root development
- Strong weed suppression even at low sowing rates
- Reduces nutrient leaching and soil erosion
- Resistant to rust and aphids

Sowing Period: Aug-Oct
Sowing Depth: 1-2cm

Sowing Rate: 50kg/ha
Winter Hardy: YES

**Common Vetch** *Vicia sativa***Variety:** NACRE

NACRE is frost tolerant, which distinguishes it from other common vetch varieties. Most effective at fixing nitrogen when allowed a prolonged growing season in either spring or autumn.

- Large seed size ensures strong early vigour
- Fixes nitrogen available for the following crop
- Breaks down quickly once incorporated
- Produced in the UK and trusted on farm
- Excellent companion to both black oats and rye
- Frost susceptible varieties also available

Sowing Period: Mar-Oct
Sowing Depth: 1-2cm

Sowing Rate: 50kg/ha
Winter Hardy: YES



Red Vetch Vicia atropurpurea

Variety: BINGO

The use of BINGO red vetch is an exciting development in short term cover crops and companion cropping. BINGO establishes more quickly, produces more biomass and is more susceptible to frost than common vetch.

- Fast growing, nitrogen-fixing legume
- Suits early autumn sowing where winter kill is important
- Breaks down quickly once incorporated
- Ideal for use in mixtures with berseem clover
- Bred by leading breeder Jouffray-Drillaud
- See page 14 for more information on companion cropping

Sowing Period: Mar-Oct
Sowing Depth: 1-2cm

Sowing Rate: 50kg/ha
Winter Hardy: NO



White Mustard Sinapis alba

Variety: SUNSHINE

SUNSHINE is produced in the UK and has been trusted by farmers for a number of years. High vigour, late maturity and high biomass production make SUNSHINE every grower's first choice variety.

- Economical cover crop solution
- High vigour and late maturing
- Produces high dry matter
- Rapid establishment
- Excellent weed suppressor and soil conditioner
- Suitable as a standalone crop or for use in mixtures

Sowing Period: Apr-Sept
Sowing Depth: 0.5-1cm

Sowing Rate: 15kg/ha
Winter Hardy: NO



Brown Mustard Brassica juncea

Varieties: SCALA, VITASSO

Brown mustard provides a winter hardy cover crop to suppress weeds, pump water and improve soil structure. Both SCALA and VITASSO are developed by leading breeders to be used as cover crops in their own right or for biofumigation.

- Improves soil health and catches nitrogen
- Increases organic matter and suppresses volunteers
- Rapid autumn growth and winter hardy
- Exceptional root development in a short period of time
- Active against Pythium, Rhizoctonia and Verticillium
- See page 4 for more information on biofumigation

Sowing Period: Apr-Sept
Sowing Depth: 0.5-1cm

Sowing Rate: 5kg/ha
Winter Hardy: YES*

*Brown mustard usually withstands temperature down to -5°C. **EnviroSeeds**

KEY SPECIES



DAIKON

Oil Radish Raphanus sativus

Varieties: ROMESA, PINA, IMAGE, DAIKON

Oil radish produces large amounts of biomass and extended tap roots, making it ideal for soil conditioning. Nematode resistant varieties also have the ability to reduce beet cyst nematode, and tillage radish can be used for superior root development.

- Choose from ROMESA (classic), PINA (class 2), IMAGE (class 1) and DAIKON (tillage)
- For maximum effect in controlling nematodes sowing rate should be increased to 25kg/ha
- For more information on nematode control see page 5

Sowing Period: Apr-Sep
Sowing Depth: 1-2cm

Sowing Rate: 10-25kg/ha
Winter Hardy: NO

Buckwheat Fagopyrum tataricum

Varieties: LIFAGO

LIFAGO buckwheat grows more rapidly than alternative Fagopyrum esculentum buckwheat. Covering ground more quickly and creating a dense, yet frost tender canopy makes LIFAGO the only buckwheat variety we recommend for use as an oilseed rape companion crop.

- Very quick growing annual
- Extremely tender to frost
- Excellent weed suppressant
- Important oilseed rape companion species
- Scavenges phosphates

Sowing Period: May-July
Sowing Depth: 2-3cm

Sowing Rate: 50kg/ha
Winter Hardy: NO

Berseem Clover Trifolium alexandrinum

Variety: TABOR

Berseem clover grows rapidly and fixes nitrogen quickly. TABOR is very susceptible to frost and unique in being a 'single-cut' variety. This means once killed by frost or cut, it does not regrow and therefore makes it ideal for short term cover crops and companion cropping.

- Fast growing, nitrogen-fixing annual
- Very quick growing, tender to frosts
- Suppresses weeds and easy to incorporate
- Ideal for use in mixtures with vetch
- See page 14 for more information on companion cropping

Sowing Period: Mar-Aug
Sowing Depth: 1cm

Sowing Rate: 15kg/ha
Winter Hardy: NO



PHACELIA

Phacelia tanacetifolia

- Very quick to establish
- Good weed suppressant
- Matures in 10-12 weeks
- Produces large, shallow root mass
- Excellent pollinator

Sowing Period: Apr-Oct **Sowing Rate:** 8kg/ha
Sowing Depth: 1-2cm **Winter Hardy:** NO



LUCERNE

Medicago sativa

- Long term perennial
- Excellent nitrogen fixer
- Long tap root
- Suits light, chalky soils
- High dry matter, high protein

Sowing Period: Apr-Oct **Sowing Rate:** 25kg/ha
Sowing Depth: 1-2cm **Winter Hardy:** YES



ETHIOPIAN MUSTARD

Brassica carinata

- Frost hardy brassica
- Easy to establish
- Excellent weed suppressant
- Produces very leafy canopy
- Tolerates poorer soils

Sowing Period: May-Aug **Sowing Rate:** 15kg/ha
Sowing Depth: 1-2cm **Winter Hardy:** YES



CRIMSON CLOVER

Trifolium incarnatum

- Nitrogen fixing annual
- Sow summer/post harvest
- Rapid growth in spring
- Suppresses weeds
- Tolerant of poor soils

Sowing Period: Aug-Sep **Sowing Rate:** 15kg/ha
Sowing Depth: 1cm **Winter Hardy:** YES



NEW

FENUGREEK

Trigonella foenum-graecum

- Exciting OSR companion crop development
- Quick-growing legume
- Susceptible to frost
- Fixes nitrogen
- Exudes flea beetle repelling odour

Sowing Period: Jul-Sep **Sowing Rate:** 10kg/ha
Sowing Depth: 1cm **Winter Hardy:** NO



LINSEED

Linum usitatissimum

- Easy and quick to establish
- Suits thinner soils
- Good companion to Legumes
- Fibrous root structure
- Scavenges nitrogen

Sowing Period: Apr-Aug **Sowing Rate:** 50kg/ha
Sowing Depth: 2-3cm **Winter Hardy:** NO

ENVIROSEEDS MIXTURES



EnviroSeeds GRABBER

Our most popular cover crop mixture comprising rye and winter vetch. NACRE vetch has a prolonged growing season and fixes nitrogen at lower temperatures than other legumes. Rye develops a strong root structure to scavenge nitrogen and suppresses weeds.

- Fixes and catches nitrogen
- Overwinters
- Low cost
- Good weed suppression

Contents:

80% POWERGREEN Rye
20% NACRE Vetch

Sowing Rate:

35-50kg/ha



EnviroSeeds AUTUMN DM

Suitable for early autumn sowing with high dry matter production. Phacelia puts on a large amount of growth in a short period of time. The three different rooting structures improve soil structure and scavenge nitrogen. The inclusion of rye ensures cover through the winter.

- Suitable for early sowing
- High dry matter
- Fixes and catches nitrogen
- Good for soil structure

Contents:

80% POWERGREEN Rye
15% JOSE Vetch
5% STALA Phacelia

Sowing Rate:

35kg/ha



EnviroSeeds ECOCOVER

Can be sown down to 25kg/ha for the most economical cover or catch crop solution. White mustard is quick to establish and fast growing. As it is tender to frost, it is also easy to incorporate in to the soil. Together with the prostrate growth of rye, this mixture is effective at suppressing weeds.

- Low cost
- Covers ground through winter
- Fast establishment
- Good weed suppression

Contents:

80% POWERGREEN Rye
20% SUNSHINE White Mustard

Sowing Rate:

25-50kg/ha



EnviroSeeds CATCHMORE

Great mixture for scavenging nitrogen from the soil. White mustard and phacelia establish and grow very quickly, making this mixture particularly good for growing over short catch crop periods. Suitable for use as an over winter cover crop as rye and brown mustard are frost resistant.

- Very quick growing
- Catches nitrogen very quickly
- Suitable for catch crop
- Covers ground through winter

Contents:

60% POWERGREEN Rye
25% SUNSHINE White Mustard
10% SCALA Brown Mustard
5% STALA Phacelia

Sowing Rate:

25kg/ha



EnviroSeeds SPRINTER

Specifically for early autumn sowing where high biomass is required but the cover is not required to overwinter. LUXURIAL is exceptionally quick to establish but late to mature, reducing risk of unwanted seed shed. JOSE vetch establishes and grows quickly in the autumn.

- Best sown in early autumn
- Short term, very quick growing
- Fixes and catches nitrogen
- Winter kill is likely

Contents:

70% LUXURIAL Black Oats
30% JOSE Vetch

Sowing Rate:

25-35kg/ha



ENVIROSEEDS MIXTURES

EnviroSeeds SOIL REVIVOR

Diverse mixture to improve soil structure and provide plenty of top growth. Fibrous roots of black oats combine with the deep, penetrative radish root and lateral root growth from brown mustard for maximum soil conditioning. Also produces high dry matter.

- Diverse mixture
- Good for soil structure
- High dry matter
- Catches nitrogen

Contents:

80% LUXURIAL Black Oats
15% ROMESA Oil Radish
5% SCALA Brown Mustard

Sowing Rate:

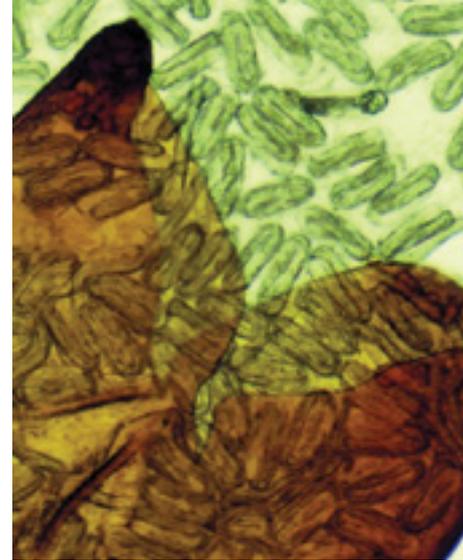
25kg/ha

ENVIROSEEDS MIXTURES



White Mustard

Brown Mustard



EnviroSeeds PAN BUSTER

A blend of three leading oil radish varieties, including Daikon, great for improving soil structure and suppressing weeds. Sowing at 10kg/ha encourages greater root growth to break up soil compaction. Higher sowing rates encourage greater top growth.

- Deep rooting
- Breaks up soil compaction
- Rapid water uptake from waterlogged soils
- Very quick growing

Contents:

40% ROMESA Oil Radish
30% PINA Oil Radish
30% DAIKON Tillage Radish

Sowing Rate:

10-15kg/ha

EnviroSeeds HYDROMAX

Cost effective solution for fast establishment and good ground cover to suppress weeds. Can be used effectively to improve soil structure and take moisture out of the soil over a short period of time. When incorporated in to the soil, brown mustard has a biofumigation effect.

- Deep, fibrous roots
- Good weed suppression
- Catches nitrogen
- Low cost

Contents:

70% SUNSHINE White Mustard
30% SCALA Brown Mustard

Sowing Rate:

12.5kg/ha

EnviroSeeds NEMASHIELD

Created specifically to target soil borne pathogens. NemaShield contains type 2 resistant varieties of both white mustard and oil radish to maximise control of beet cyst nematode (*Heterodera schachtii*). See page 4 for more information on nematode control.

- Powerful anti-nematode effect
- Breaks up soil compaction
- High biomass production
- Scavenges nitrogen

Contents:

50% IRIS White Mustard
50% PINA Oil Radish

Sowing Rate:

25kg/ha

Primary Characteristics
Secondary Characteristics

Specie	Latin Name	Type	Sowing Rate per ha	Sowing Depth	Sowing Period	Over Winter Use	Nitrogen Fix	Leaching Prevention	Organic Matter	Soil Structure	Biofumigant	Allelopathic	Nematode Control	Weed Control
MUSTARD														
Brown	Brassica juncea	Brassica	5kg	0.5-1cm	Apr-Oct	YES								
White	Sinapis alba	Brassica	15kg	0.5-1cm	Apr-Sept	NO								
White (type 2)	Sinapis alba	Brassica	15kg	0.5-1cm	Apr-Sept	NO								
Ethiopian Mustard	Brassica carinata	Brassica	15kg	2-3cm	May-Aug	YES								
VETCH														
Common	Vicia sativa	Legume	50kg	1-2cm	Mar-Oct	YES								
Red	Vicia villosa	Legume	50kg	1-2cm	Mar-Oct	NO								
OIL RADISH														
Classic	Raphanus sativus	Brassica	10-15kg	1-2cm	Apr-Sept	NO								
Type 2	Raphanus sativus	Brassica	10-25kg	1-2cm	Apr-Sept	NO								
Type 1	Raphanus sativus	Brassica	10-25kg	1-2cm	Apr-Sept	NO								
Tillage	Raphanus sativus	Brassica	10-15kg	1-2cm	Apr-Aug	NO								
OTHER SPECIES														
Berseem Clover	Trifolium alexandrinum	Legume	15kg	1cm	Mar-Aug	NO								
Black Oats	Avena strigosa	Cereal	50kg	1-2cm	Aug-Oct	NO								
Buckwheat	Fagopyrum esculentum	Polygonaceae	50kg	2-3cm	May-July	NO								
Crimson Clover	Trifolium incarnatum	Legume	15kg	1cm	Aug-Sept	YES								
Linseed	Linum ultimissimum	Linum	50kg	2-3cm	Apr-Aug	NO								
Lucerne	Medicago sativa	Legume	25kg	1-2cm	Apr-Aug	YES								
Niger	Guizotia abyssinica	Asteraceae	10kg	1-2cm	Apr-Aug	NO								
Phacelia	Phacelia tanacetifolia	Boraginaceae	8kg	0.5cm	Mar-Aug	NO								
Rye	Secale cereale	Cereal	50kg	1-2cm	Aug-Oct	YES								
Sunflower	Helianthus annuus	Asteraceae	25kg	2-3cm	Apr-Aug	NO								
ENVIROSEEDS MIXTURES														
Grabber		Mixture	35-50kg	1-2cm	Aug-Oct	YES								
Autumn DM		Mixture	35kg	1-2cm	Mar-Sept	YES								
EcoCover		Mixture	25-50kg	1-2cm	Aug-Sept	YES								
CatchMore		Mixture	25kg	1-2cm	Aug-Sept	YES								
Sprinter		Mixture	25-35kg	1-2cm	Aug-Oct	NO								
Soil Revivor		Mixture	25kg	1-2cm	Aug-Sept	NO								
Pan Buster		Mixture	10-15kg	1-2cm	Apr-Sept	NO								
HydroMax		Mixture	12.5kg	1-2cm	Apr-Sept	YES								
NemaShield		Mixture	25kg	1-2cm	Apr-Sept	NO								

Information provided in this catalogue is given in good faith, and should act as a guide only. Local conditions, weather and crop rotations will affect performance.

COMPANION CROPPING

Variety Selection

Companion cropping can be extremely effective in improving the establishment and yield of oilseed rape crops, by reducing weed pressure, fixing nitrogen and protecting against flea beetle. The EnviroSeeds range is based on rigorous variety selection to deliver reliable results – accept no imitations!

TABOR berseem clover (*Trifolium alexandrinum*) is the only proven 'single-cut' variety of berseem clover available in the UK. All other varieties are 'multi-cut' and will regrow rapidly and readily following frost.

LIFAGO buckwheat (*Fagopyrum tataricum*) is unique from other buckwheat varieties (*Fagopyrum esculentum*) – characterised by more vigorous autumn growth and superior leaf canopy to provide the most effective physical protection from flea beetle.

BINGO red vetch (*Vicia atropurpurea*) is significantly more frost tender than all common vetch (*Vicia sativa*) varieties and grows much more vigorously in a short period of time. Combines maximum nitrogen fixation with superior weed suppression.

Fenugreek's odour is a natural flea beetle deterrent. Substituting with other species is not effective.



EnviroSeeds N-FIXER

This mixture contains only the most frost tender varieties of red vetch and berseem clover, making this unique to any other available in the market. In a normal winter, both will be killed without need for additional herbicide treatments.

- Rapid growth and nitrogen fixation in the autumn
- Frost tender varieties that will not regrow
- Suppresses weeds
- Effective short-term nitrogen fixing cover crop

Contents:
80% BINGO Red Vetch
20% TABOR Berseem Clover

Sowing Rate:
10kg/ha

EnviroSeeds FIX AND BLOCK

Designed to be sown within a winter oilseed rape crop to aid crop establishment. Carefully formulated to include frost tender varieties of clover that won't regrow, this mixture also aids crop nutrition by fixing nitrogen in as little as nine weeks. The inclusion of fenugreek deters flea beetle with its strong fragrance, disguising the oilseed rape plants.

- Suppresses common weed growth
- Fast growing annual legumes
- Prevents regrowth with frost tender clover varieties
- Deters flea beetle

Contents:
50% TABOR Berseem Clover
50% Fenugreek

Sowing Rate:
10kg/ha

**NEW**

EnviroSeeds FIX AND PROTECT

This mixture is designed to be planted within the winter oilseed rape crop either before or at planting. Berseem clover has deep taproots, improving soil structure to encourage deeper rooting of the oilseed rape crop whilst fixing nitrogen. Buckwheat has vigorous growth habits and provides a large canopy to disguise the oilseed crop from flea beetle.

- Nitrogen fixing properties
- Frost tender to ease competition over the winter period
- Quick, vigorous growth to enhance weed suppression
- Provides a source of nectar for beneficial insects

Contents:

60% LIFAGO Buckwheat
40% TABOR Berseem Clover

Sowing Rate:

10kg/ha

**NEW**

EnviroSeeds SHIELDER

The complete companion crop. A combination of frost tender, large canopied varieties with a strong potent scent; this mixture fully protects the oilseed rape crop from damaging pests and insects. The deep roots of clover help condition the soil, allowing rapid oilseed rape establishment, whilst fixing Nitrogen and enhancing weed suppression.

- Potent smell to disguise the oilseed rape crop
- Fixes nitrogen
- Strong rooting depth to aid establishment
- Creates dense protective canopy

Contents:

50% LIFAGO Buckwheat
25% TABOR Berseem Clover
25% Fenugreek

Sowing Rate:

12.5kg/ha

**NEW**

EnviroSeeds BEETLE BLASTER

A fast establishing, annual mixture to sow alongside a winter oilseed rape crop – commonly sown either with or before oilseed rape drilling. A high percentage of buckwheat ensures the oilseed rape crop is fully covered with a large canopy to disguise from flea beetle. Added fenugreek masks the smell of the oilseed rape crop to reduce levels of detrimental pests.

- Frost sensitive to guarantee no regrowth
- Nutrient scavenging and nitrogen fixing
- Rapid establishment and high vigour
- Source of nectar for beneficial insects

Contents:

70% LIFAGO Buckwheat
30% Fenugreek

Sowing Rate:

12.5kg/ha

COMPANION CROPPING

INTRODUCTION

Countryside Stewardship will continue to be offered until the Environmental Land Management (ELM) Scheme begins in 2024. The scheme is designed to incentivise farmers and land managers to enhance the environment with a more targeted approach. Our range has been updated to reflect 2021 changes to scheme requirements.

Stewardship Category	Pages
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Wild Bird Mixtures	20-21
Buffer Strips	22
Flower Rich Margins	23

The scheme is delivered by Natural England, the Forestry Commission and the Rural Payments Agency, and has three main elements:

Higher Tier

Replaced Higher Level Stewardship. For the most environmentally important sites and woodlands, requiring complex management and/or targeted measures for particular species.

Mid Tier

Replaced Entry Level Stewardship. Addresses a range of environmental issues such as improving the farmed environment for wild birds and pollinators.

Lower Tier

Replaced Capital Grants. Grants for improving water quality, hedges and woodland.

EnviroSeeds

Further information:

Information in this guide relates to Countryside Stewardship in England. For further information see:

www.gov.uk/countrysidestewardship

Different schemes apply for Wales and Scotland. For information regarding these schemes see:

www.gov.wales

www.gov.scot

Our range of mixtures is designed to keep Countryside Stewardship simple, with products tailored to the various schemes. See opposite to find the right mixture for your option.

Bespoke mixtures can also be supplied for specific Higher Tier agreements where required.

This guide should not be treated as a substitute for official rules available at www.gov.uk/countrysidestewardship



Mixtures	Page	AB1	AB2	AB3	AB7	AB8	AB9	AB15	AB16	GS1	GS3	GS4	GS8	GS14	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	WT1	WT2	
FALLOW MIXTURES																									
CSS2 Legume and Herb Rich	18									■		■	■	■	■	■	■	■			■	■	■	■	
CSS6/20 Two Year Sown Legume Fallow Mix	18							■					■	■	■	■	■	■						■	■
CSS6/21 Two Year Sown Legume Fallow Mix	18							■					■	■	■	■	■	■						■	■
POLLEN AND NECTAR																									
CSS4 Nectar Flower Mixture - Standard	19	■																							
CSS5 Nectar Flower Mixture - Enhanced	19	■																							
WILD BIRD MIXTURES																									
CSS10/FCB Finch and Corn Bunting (1 Year)	20						■																		
CSS10/TS Tree Sparrow (1 Year)	20						■																		
CSS10/GP Grey Partridge (2 Year)	20						■																		
CSS10/AS Autumn Sown Wild Bird (1 Year)	21						■																		
CSS7 Autumn Sown Bumblebird	21								■				■	■											
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This guide should not be treated as a substitute for official rules available at www.gov.uk/countryside-stewardship-grants

FALLOW MIXTURES



CSS2 Legume and Herb Rich

Economical mixture to boost availability of essential food sources for a range of nectar-feeding insects, including butterflies and bumblebees.

■ Suitable for Countryside Stewardship Schemes: GS1 GS4 GS14 SW1 SW2 SW3 SW4 SW7 SW8 WT1 WT2

Sowing Rate: 20kg/ha

Contents:

27% Strong Creeping Red Fescue	1.5% Birdsfoot Trefoil
20% Timothy	0.5% Sheep's Parsley
15% Perennial Ryegrass (late)	0.5% Sheep's Burnet
13% Meadow Fescue	0.25% Ribwort Plantain
10% Red Clover	0.25% Yarrow
5% Sainfoin	
5% Smooth-stalked Meadow Grass	
2% Alsike Clover	



CSS6/20 Two Year Sown Legume Fallow Mix

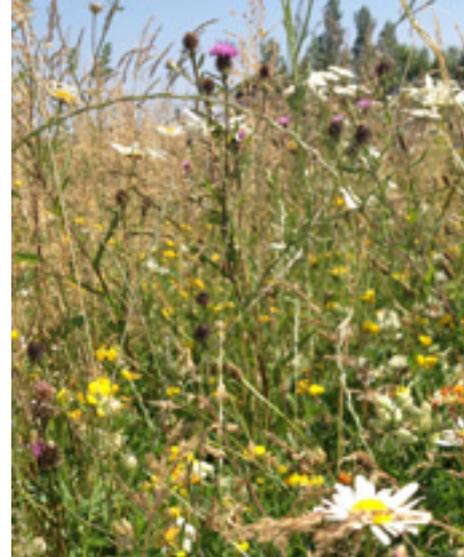
Suitable for schemes beginning in or before 2020 to provide food sources for a range of nectar-feeding insects, including butterflies, bees and farmland birds.

■ Suitable for Countryside Stewardship Schemes: AB15 GS8 SW1 SW2 SW3 SW4 WT1 WT2

Sowing Rate: 30kg/ha

Contents:

66% Perennial Ryegrass
15% Red Clover
10% Common Vetch
7% Birdsfoot Trefoil
2% Common Knapweed



CSS6/21 Two Year Legume Fallow Mix

Suitable for schemes beginning in 2021 and provides food sources for a range of nectar-feeding insects, including butterflies, bees and farmland birds.

■ Suitable for Countryside Stewardship Schemes: AB15 GS8 SW1 SW2 SW3 SW4 WT1 WT2

Sowing Rate: 15-20kg/ha

Contents:

50% Common Vetch
15% Lucerne
15% Red Clover
10% Alsike Clover
5% Birdsfoot Trefoil
5% Crimson Clover

Also available with ryegrass to enhance weed suppression.

POLLEN AND NECTAR



CSS4 Nectar Flower Mixture – Standard

A diverse mixture to provide essential food sources and habitats for a wide range of nectar-feeding insects, butterflies and bumblebees.

■ Suitable for Countryside Stewardship Schemes: AB1

Sowing Rate: 20-40kg/ha

Contents:

50% Common Vetch
30% Sainfoin
8% Red Clover
5% Alsike Clover
5% Birdsfoot Trefoil
1% Oxeye Daisy
1% Yarrow

CSS5 Nectar Flower Mixture – Enhanced

Premium mixture that exactly replicates guidance published by DEFRA to provide food sources and habitats for a range of nectar-feeding insects, butterflies and bumblebees.

■ Suitable for Countryside Stewardship Schemes: AB1

Sowing Rate: 15kg/ha

Contents:

40% Common Vetch	1% Musk Mallow
10% Alsike Clover	1% Oxeye Daisy
10% Birdsfoot Trefoil	1% Wild Carrot
10% Early Flowering Red Clover	0.5% Yarrow
10% Late Flowering Red Clover	
5% Black Medick	
5% Lucerne	
5% Sweet Clover	
1.5% Common Knapweed	

ALSO AVAILABLE



Wildflower Seeds

See page 24 onwards for our range of UK native wildflower mixtures.



Organic Mixtures

Wide range of organic mixtures available for Countryside Stewardship options OP1, OP2, OP4, OP5.



Bespoke Mixtures

For Higher Level Stewardship and Higher Tier Countryside Stewardship, EnviroSeeds can offer custom mixtures to suit your specification. Get in touch for further information.

WILD BIRD MIXTURES



CSS10/FCB Finch and Corn Bunting (1 Year)

Annual mixture that provides important food sources for farmland birds, especially in winter and early spring. Particularly attractive to finches and corn buntings.

■ Suitable for Countryside Stewardship Schemes: AB9

Sowing Rate: 50kg/ha

Contents:

50% Spring Triticale
30% Spring Barley
5% Sunflower
5% Quinoa
5% Red Millet
5% White Millet



CSS10/TS Tree Sparrow (1 Year)

Annual mixture that provides important food sources for farmland birds, especially in winter and early spring. Particularly attractive to tree sparrows.

■ Suitable for Countryside Stewardship Schemes: AB9

Sowing Rate: 50kg/ha

Contents:

50% Spring Triticale
30% Spring Barley
5% Fodder Radish
5% Linseed
5% Quinoa
5% White Millet



CSS10/GP Grey Partridge (2 Year)

Medium term mixture that provides important food sources for farmland birds, especially in winter and early spring. Particularly attractive to grey partridges.

■ Suitable for Countryside Stewardship Schemes: AB9

Sowing Rate: 50kg/ha

Contents:

50% Spring Triticale
30% Spring Barley
5% Fodder Radish
5% Kale
5% Linseed
5% White Millet

WILD BIRD MIXTURES

**CSS10/AS Autumn Sown Wild Bird (1 Year)**

Suitable for sowing in areas where spring planting has been unsuccessful or where an autumn sowing may be advantageous. Provides a vital food source for farmland birds.

■ Suitable for Countryside Stewardship Schemes: AB9

Sowing Rate: 50kg/ha

Contents:

40% Winter Triticale
20% Common Vetch
20% Winter Barley
10% Forage Rape
10% White Mustard

**CSS7 Autumn Sown Bumblebird**

An autumn sown mixture to provide essential food for many species of farmland birds whilst providing sources of pollen and nectar for bees and butterflies.

■ Suitable for Countryside Stewardship Schemes: GS8, GS14, AB16

Sowing Rate: 50kg/ha

Contents:

34% Triticale	1% Alsike Clover
34% Wheat	1% Birdsfoot Trefoil
8% Linseed	1% Lucerne
7% Common Vetch	1% Phacelia
5% Crimson Clover	1% Red Clover
3% Gold of Pleasure	
2% Fodder Radish	
2% Kale	

ALSO AVAILABLE**Game Cover**

Get in touch for details of our game cover range including maize, straights and mixtures.

**Forage Crops**

EnviroSeeds offer a comprehensive range of forage crops, including UK grown stubble turnips and kale.

**Supplementary Feeding**

Large range of wild bird seed to comply with Countryside Stewardship AB12, available as straights and in mixtures.

EnviroSeeds

BUFFER STRIPS



CSS8 Buffer Strip with Cocksfoot

Managed as low intensity grassland and can be used to create new habitats. Cocksfoot is a clump forming grass creating areas for birds and small mammals to nest.

■ Suitable for Countryside Stewardship Schemes: AB3 SW1 SW2 SW3 SW4 SW7 SW8 WT1 WT2

Sowing Rate: 20kg/ha

Contents:

40% Strong Creeping Red Fescue
25% Timothy
20% Tall Fescue
10% Cocksfoot
5% Hard Fescue



CSS9 Buffer Strip without Cocksfoot

Managed as a low intensity grassland. Contains fine-leaved grasses allowing wildflowers to establish. Creates a habitat for insects and small mammals.

■ Suitable for Countryside Stewardship Schemes: AB3 SW1 SW2 SW3 SW4 SW7 SW8

Sowing Rate: 20kg/ha

Contents:

35% Strong Creeping Red Fescue
30% Timothy
20% Tall Fescue
10% Chewings Fescue
5% Hard Fescue



CSS11 Species Rich Wild Grass

Suitable for field margins and buffer strips on most soil types. Provides food source for insects and butterflies. Ideal companion for wildflower seeds.

■ Suitable for Countryside Stewardship Schemes: AB3

Sowing Rate: 20kg/ha

Contents:

25% Strong Creeping Red Fescue	4% Smaller Cat's Tail
15% Meadow Fescue	2% Yellow Oat Grass
15% Chewings Fescue	
10% Hard Fescue	
10% Tall Fescue	
8% Smooth-stalked Meadowgrass	
6% Sheep's Fescue	
5% Highland Bent	



CSS1 Flower Rich Margins & Plots

A low intensity grassland mixture inclusive of several wildflowers as advised by Natural England. Can either cut August/September or March/April.

■ Suitable for Countryside Stewardship Schemes: AB8 GS8 GS14 SW1 SW2 SW3 SW4 SW7 SW8 WT1 WT2

Sowing Rate: 15-20kg/ha

Contents:

40% Strong Creeping Red Fescue	0.5% Ribwort Plantain
20% Chewing's Fescue	0.5% Crimson Clover
20% Hard Fescue	0.25% Oxeye Daisy
5% Smooth-stalked Meadow Grass	0.25% Selfheal
5% Sainfoin	0.25% Wild Carrot
5% Vetch	0.25% Yarrow
2.5% Red Clover	
0.5% Birdsfoot Trefoil	

CSS3 Wildflower Meadow and Margin

Designed for introducing wildflowers, legumes and grasses into large areas. Provides a rich habitat for invertebrates, birds and small mammals.

■ Suitable for Countryside Stewardship Schemes: AB8 GS4 GS8 GS14 SW1 SW2 SW3 SW4 SW7 SW8 WT1 WT2

Sowing Rate: 15-20kg/ha

Contents:

20% Strong Creeping Red Fescue	2% Sainfoin
15% Timothy	1% Common Knapweed
10% Chewing's Fescue	1% Lady's Bedstraw
10% Hard Fescue	1% Meadow Foxtail
10% Red clover	1% Ox-eye Daisy
10% Slender Creeping Red Fescue	1% Ribwort Plantain
6% Smooth-stalked Meadow Grass	1% Self Heal
4% Sheep's Fescue	1% Tall Oatgrass
2% Alsike Clover	1% Wild carrot
2% Birdsfoot Trefoil	1% Yarrow

INTRODUCTION

Establishing wildflower areas can provide food and shelter for important species of pollinators and wild birds, which are becoming increasingly endangered.



Wildflower seed contained in the **EnviroSeeds** wildflower range is supplied in accordance with Flora Locale's strict code of practice.

This is designed to ensure wildflower seed is of UK native origin and is harvested and grown responsibly to aid conservation and help protect native UK wild plants.



Our mixtures are also formulated in conjunction with Buglife, the only organisation in Europe devoted to the conservation of 40,000 invertebrate species in

the UK. Supporting these species not only benefits important pollinators directly, but also the species providing food source for a wide variety of farmland birds.

Mixtures are available as either 100% wildflowers or as grass and wildflower meadow mixtures containing 20% wildflowers and 80% meadow grasses.

100% wildflower mixtures provide a bolder show of flowers and are generally suitable for smaller areas where impact is important. Sometimes, the area could be susceptible to weed infestation, and ground can be bare in the winter when the flowers have died off.

20% wildflower mixtures provide a more natural meadow appearance and are generally suitable for larger areas. The inclusion of meadow grasses can help suppress weeds and ensures the ground is covered through the winter.

Bespoke mixtures can be accommodated for particular specifications or projects.

Where you see this logo, you can be sure the mixture supports bees, butterflies and other pollinators as it contains a minimum of 80% of species recommended by the Royal Horticultural Society (RHS) as 'Plants for Pollinators'.



MEADOW CREATION

Prepare the Ground

Wildflower seed performs best in low nutrient soils, which haven't been heavily fertilised in the past. For best results, sow into bare soil after clearing all existing plants and weeds from the area.

Cultivate the ground to a depth of 10cm to relieve compaction and create a fine level tilth, free from obstructions (to allow for mowing at a later stage). Finish the seedbed by treading or lightly rolling the area, so that it is firm enough to stand on without leaving indentations.

Where weeds have been prevalent, allow a flush of weeds to germinate and remove these before sowing. In areas of high fertility, it may be necessary to remove the topsoil and sow into the subsoil. High nutrient soils encourage weeds and fast growing grasses which may outcompete wildflowers.

Wildflowers can be overseeded in to existing grassland, provided the sward comprises only fine leaved grasses and does not

include ryegrass, agricultural species or weeds. Cut the grass as short as possible and thoroughly scarify or rake the ground to remove any thatch, moss and other debris from the area.

Sowing

Wildflowers should be sown between March and November. Spring and autumn provide ideal conditions as moisture and warmth are in good supply. If overseeding into grass, it is best to sow during autumn when grass growth has slowed down. Distribute seed with a handheld or broadcast spreader, at the recommended sowing rate. Mix the wildflower seeds with an inert carrier (such as sharp sand), at a ratio of four parts sand to one part seed (by weight). This makes it easier to achieve an even distribution and also provides a visual marker. Regularly mix the seed when sowing, as seeds will naturally separate due to variations in size and weight. Once sown, ensure good seed-to-soil contact by lightly raking to a depth of 0.5cm or rolling the area. It is also possible to drill or hydroseed wildflower seed for larger or hard to reach areas.



MAINTENANCE

FIRST YEAR

Annual mixtures such as Cornfield Annuals will flower in year one, and need resowing each year.

For mixtures containing mostly perennial species, remove any weeds that grow before they run to seed, either by topping, mowing or by hand for smaller areas. Weed growth is common due to the action of disturbing the ground (rather than being caused by contaminated seed mixtures).

In the autumn, cut the area down to around 10cm using a scythe, strimmer or mower, leaving the cuttings for up to a week before removing. This will allow them to dry and shed seeds back into the soil.

SECOND YEAR

100% wildflower mixtures generally require one cut in the autumn once the flowers have died back as above. Grass and wildflower mixtures can benefit from an additional cut in the spring to avoid grass dominance and allow the wildflowers to flourish.

As an ongoing process, observe and remove any weeds which invade the area. Over time, some species within the mixture may become more dominant due to environmental factors and natural selection. To encourage diversity, simply reduce the number of dominant plants or consider overseeding.

WILDFLOWER MIXTURES



ES Restore and Enrich Wildflower Seeds

Specially formulated mixture for overseeding into existing grassland, containing easier to establish and more competitive wildflower species.

- Contains 22 wildflower species including a small number of annuals to provide first year colour.
- This mixture is only available as 100% wildflowers, designed to enrich existing grassland areas. Cut grass short, open up soil and ensure no ryegrass is present.

Sowing Rate: 100%: 3g/sqm



ES Dual Purpose Wildflower Seeds

Wildflower seed mixture to create a permanent meadow. Contains bold annual species for impact after sowing, as well as perennials to provide longevity.

- Contains 28 wildflower species made up of 70% perennial and 30% annual species.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



ES Bees and Butterflies Wildflower Seeds

Containing species specially chosen to be particularly attractive to bees, butterflies and other insects. Creates a beautiful meadow and wildlife habitat.

- Contains 24 wildflower species selected from the RHS Perfect for Pollinators list.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



ES General Purpose Wildflower Seeds

Easy to establish mixture containing species frequently found in a wide range of soil types and habitats. Creates a diverse, permanent meadow.

- Contains 23 wildflower species including Red Campion, Night-Flowering Catchfly and Yarrow.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



ES Chalk and Limestone Soils Wildflower Seeds

Species contained in this mixture are typically found in natural chalk and limestone meadows. Best sown in to low fertility soils with high limestone content.

- Contains 23 wildflower species including Salad Burnet, Wild Marjoram, Self-heal and Toadflax.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



WILDFLOWER MIXTURES

ES Dry, Sandy and Loam Soils Wildflower Seeds

Species in this mixture are deep rooting and tolerant of drought making it suitable to be sown on well drained soils which tend to be dry in summer.

- Contains 24 wildflower species including Black Medick, White Campion, Wild Carrot and Forget-me-not.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm

Full specifications of wildflower mixtures are available on request.

WILDFLOWER MIXTURES



ES Loam and Alluvial Soils Wildflower Seeds

Species in this mixture are frequently found on moisture retentive loamy soils, typical of many lowland meadows with free drainage.

- Contains 23 wildflower species including Lady's Bedstraw, Ox-eye Daisy and Greater Knapweed.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



ES Heavy Clay Soils Wildflower Seeds

Species in this mixture are frequently found on heavier soils, low lying meadows and areas subject to occasional water logging.

- Contains 24 wildflower species including Common Agrimony, Betony, Corn Chamomile, and Meadowsweet.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



ES Wetland and Pond Edge Wildflower Seeds

Species in this mixture are frequently found in grassland alongside streams, ponds and rivers and will also thrive in wet, low lying land.

- Contains 22 wildflower species including Water Avens, Yellow-flag Iris, Ragged Robin and Common Sedge.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm

WILDFLOWER MIXTURES



ES Hedgerow and Light Shade Wildflower Seeds

Species in this mixture are frequently found in hedgerows, woodland edges and open woods. Can also be sown in partial shade.

- Contains 22 wildflower species including Cowslip, Foxglove, Dark Mullein and Common St John's-Wort.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm

ES Woodland and Heavy Shade Wildflower Seeds

Species in this mixture are frequently found in wooded areas, alongside woodland edges and in clearings. Shade may be heavy or prolonged.

- Contains 24 wildflower species including Nettle-Leaved Bellflower, Bluebell, Meadowsweet and Tufted Vetch.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm

ES Cornfield Annuals Wildflower Seeds

Species contained in this mixture provide dramatic bold colour for one season. Suitable for areas where 'instant' colour is required.

- Contains 5 wildflower species - Corn Chamomile, Corn Cockle, Cornflower, Corn Marigold and Common Poppy.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm

Full specifications of wildflower mixtures are available on request.

WILDFLOWER MIXTURES



ES Coastal Areas Wildflower Seeds

Species in this mixture are frequently found in coastal areas that contain sandy loams, stony loams or calcareous loams. Can tolerate some salinity.

- Contains 19 wildflower species including Haresfoot Clover and Evening Primrose.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



ES Acidic Soils Wildflower Seeds

Species in this mixture are frequently found on poor quality, acidic soils which tend to be dominated by a mineral or an organic content.

- Contains 21 wildflower species including Betony, Greater Bird's-foot Tref oil, Ragged Robin and Devil's-bit Scabious.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm



ES Wild Bird Wildflower Seeds

This mixture contains species to attract butterflies, bees and insects during the summer, and produce seeds and grains for wild birds during the winter.

- Contains 15 wildflower species and 5 non-native species including Wild Carrot, Goat's-beard, and Teasel.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm
Sowing Rate: 80/20: 5g/sqm

ALSO AVAILABLE



WILDFLOWER MIXTURES

Wildflower Bulbs

Wide range of UK native wildflower bulbs such as bluebells, snowdrops and daffodils.

Wildflowers Plants

Available as 40cc plugs and 9cm pots, either as individual species or in collections.

Annual Flower Mixtures

Spring sown, bold flowers for immediate impact in year of sowing.



ES Low Growing Wildflower Seeds

Species in this mixture are lower growing, ideal for areas where it is important not to restrict visibility, for example along road verges.

- Contains 20 wildflower species including Forget-me-not, Yellow Rattle, Cowslip and Bladder Campion.
- Available as 100% wildflowers or as a mixture containing 80% meadow grasses and 20% wildflowers.

Sowing Rate: 100%: 3g/sqm

Sowing Rate: 80/20: 5g/sqm



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