

# ***HORIZON SEEDS***



**Gamecover & Environmental Catalogue 2017**

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**Welcome to the 2017 Horizon Seeds Gamecover and Environmental Catalogue, which we hope you will find useful and informative.**

Through our network of agents, with the support of our team here in Suffolk, we supply gamecover and environmental seeds to estates and farms across the United Kingdom.

Whether you are a professional gamekeeper, providing a set number of shooting days, just looking for a little cover for your own pleasure or looking for the right mixture or product for an environmental project we have the right products for you.

Horizon Seeds prides itself in product choice, quality, product knowledge and a fast efficient service. Customers who choose Horizon come back to us year on year because of our trusted service and company values.

### Common Gamecover Problems and Solutions

PEST PROBLEM	SOLUTION
RAT OR BADGER DAMAGE	LATE MAIZE
RABBIT DAMAGE	LABRADOR MIX, SPRING TRITICALE
DEER DAMAGE	SORGHUM
SITE PROBLEM	SOLUTION
LOW Ph	LABRADOR MIX, SPANIEL MIX, SPRING TRITICALE
AUTUMN SOWING	SPANIEL MIX
PERMANENT SITE	CHICORY, REED CANARY GRASS
WOODLAND SITE	BUCKWHEAT
ESTABLISHMENT ISSUES	SOLUTION
TROUBLE ESTABLISHING KALE	INTERVAL KALE
I NEED TO USE HERBICIDES	COCKER MIX, GOLDEN RETRIEVER MIX, JACK RUSSELL MIX
I HAVE HAD A CROP FAILURE	SPANIEL MIX, KWIK FIX

**To help with your gamecover selection we have used some icons for quick identification of useful traits.**

**The Countryside Stewardship icon also has the relevant scheme number incorporated. (see page 21)**

**F** A product that provides feed

**C** A product that provides cover

**N** Suited to Northern areas and exposed sites



Provides a source of nectar



Suitable for Countryside Stewardship schemes

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# GAMECOVER MIXTURE GUIDE

Mixture	Page	Sowing Period	Cover Period	Sowing Rate per Acre	Crop Duration	Feed Use	Cover Use	Northern Suitability
All Seasons Maize	10	April - June	Sept - Feb	45000sds	1 Year	✓	✓	✗
Millet Blend (Millgame)	11	April - May	Sept - Dec	5kg	1 Year	✓	✓	✗
Traditional Gamecover	4	April - May	July - Feb	10kg	1 Year	✓	✓	✗
Setter	4	April - May	July - Feb	10kg	2 Years	✓	✓	✗
Overdrive Mix	7	April - May	Sept - Feb	2.5 – 3kg	1 Year	✓	✓	✓
Golden Retriever	5	May - Ely June	Sept - Feb	10kg	1 Year	✓	✓	✗
Sundown	5	April - May	Aug - Feb	13kg	1 Year	✓	✓	✗
Four Ten	5	April - June	Aug - Feb	14kg	1 Year	✓	✓	✗
Pro Driver	5	April - May	Sept - Feb	6.5kg	1 Year	✓	✓	✗
Partridge Mix	6	April - May	July - Feb	25kg	1 Year	✓	✓	✗
Northern Star	6	March - April	July - Feb	20kg	1 Year	✓	✓	✓
Northern Shot	8	April - June	Sept - Feb	20kg	2 Years	✓	✓	✓
Feed and Cover Mix	6	April - June	Sept - Feb	25kg	1 Year	✓	✓	✗
Labrador	6	March - April	July - Feb	20kg	2 Years	✓	✓	✓
Deer Law	7	Spr or Aut	Year Round	15kg	5 Years +	✓	✗	✓
Springer	7	March - April	August On	15kg	1 Year	✓	✓	✓
King Mix 2000	7	April - May	Sept - Feb	2.5kg	1 Year	✓	✓	✓
Kwik Fix	8	Aug- Sept	Sept - Dec	5kg	1 Year	✗	✓	✗
Spaniel	8	Aug - Sept	Sept - Feb	4.5kg	1 Year	✓	✓	✗
Late Cover Mix	8	Aug - Sept	Sept - Dec	6kg	1 Year	✗	✓	✗
Nesting Rearing Mix	9	April - May	Year Round	15kg	5 Years +	✓	✗	✓
Terrier Organic Mix	9	April - May	Sept - Feb	20kg	1 Year	✓	✓	✓
Decoy Mix	9	April - May	Aug - Feb	8kg	1 Year	✓	✓	✗
Cocker	4	April - May	Aug - Feb	6.5kg	1 Year	✓	✓	✓
Jack Russell	8	April - May	Aug - Feb	20kg	Year	✓	✓	✗

# GAMECOVER STRAIGHTS GUIDE

Mixture	Page	Sowing Period	Cover Period	Sowing Rate per Acre	Crop Duration	Feed Use	Cover Use	Northern Suitability
Maize	10	April - May	Sept - Feb	45000 sds	1 Year	✓	✓	✗
Sorghum	12	April - June	July - Feb	8 - 12kg	1 Year	✗	✓	✗
Sunflower	13	April - May	July - Nov	5kg	1 Year	✓	✓	✗
Millet	11	April - May	Sept - Dec	10kg	1 Year	✓	✓	✗
Kale	14	April - June	Sept - Mar	1 - 2kg	2 Years	✗	✓	✓
Kale x Rape	14	April - June	Sept - Mar	1 - 2kg	2 Years	✗	✓	✓
Quinoa	11	April - May	Sept - Dec	2kg	1 Year	✓	✓	✓
Artichokes	16	Mid Mar - May	Aug - Feb	500kg	5 Years +	✗	✓	✓
Buckwheat	16	April - May	July - Dec	20kg	1 Year	✓	✓	✓
Canary Grass	16	April - May	Sept - Feb	2 - 3kg	5 Years +	✗	✓	✓
Chicory	17	April - May	Sept - Feb	2kg	5 Years +	✗	✓	✗
Jonty	15	Aug - Sept	Sept - Dec	1 - 2.5kg	1 Year	✗	✓	✓
Camelina (Gold Of Pleasure)	15	April - May	Sept - Nov	5kg	1 Year	✓	✓	✗
Fodder Radish	15	April - Aug	Sept - Feb	2.5kg	1 Year	✓	✓	✗
Mustard	17	May - Aug	Aug - Dec	5 - 10kg	1 Year	✗	✓	✓
Brown Mustard	17	May - Aug	Aug - Dec	5 - 10kg	1 Year	✗	✓	✓
Spring Triticale	18	Mar - May	Sept - Feb	50 - 60kg	1 - 2 Years	✓	✓	✓
Texsel Greens	15	June - Aug	Sept - Jan	2kg	1 Year	✗	✓	✓
Yellow Blossom Sweet Clover	18	Mar - July	Aug - Feb	2.5kg	2 Years	✗	✓	✓
Forage Rape	15	March On	Aug - Feb	1 - 2kg	2 Years	✗	✓	✓
Phacelia	17	May - June	Aug - Nov	4 kg	1 Year	✗	✓	✓
Linseed	17	Mar - June	Aug - Dec	25 kg	1 Year	✓	✓	✗



# GAMECOVER MIXTURES

## Traditional Gamecover Mix

A well proven traditional mixture designed to provide a full season of feed and cover. The Species selected will attract both wild birds and insects to the crop. The attraction of insects will greatly benefit game birds. Traditional Gamecover Mix contains brassicas for cover as well as a number of seed shedding plants. This mixture should be sown into a seed bed of at least 10°C which has been constant for at least three days and looks likely to be maintained.

### Mixture contains -

- Mustard
- Kale
- White Millet
- Red Millet
- Buckwheat
- Gamecover Maize
- Forage Rape
- Sunflowers
- Phacelia

Sowing rate: 10kg per acre  
Sowing date: April - May  
Pack size: 1 acre pack  
Cover from: July - February



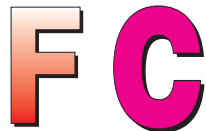
## Setter Gamecover Mix

An Ideal Mixture for full season cover. As well as providing quality cover, Setter provides a useful amount of feed from the seeds that shed from the millet blend, buckwheat, sunflowers and maize. Phacelia and Yellow Blossom Sweet Clover will attract a large amount of insect interest during the summer months.

### Mixture contains -

- Phacelia
- Mustard
- Yellow Blossom Sweet Clover
- Kale
- Millet Blend
- Buckwheat
- Gamecover Maize
- Sunflowers

Sowing rate: 10kg per acre  
Sowing date: April - May  
Pack size: 1 acre pack  
Cover from: July - February



Cocker

## Cocker

If you are looking for good weed control then this is the mixture for you. Excellent feed and cover for pheasants offering up to two full seasons of cover.

### Mixture contains -

- Caledonian Kale
- Mustard
- Fodder Radish
- Linseed

Sowing rate: 6.5kg per acre  
Sowing date: April - May  
Pack size: 1 acre pack  
Cover from: September - February



**Butisan S Tolerant**



Traditional



Setter

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C U T T I N G L E Y S

# GAMECOVER MIXTURES

## Golden Retriever

### Stomp Aqua Tolerant

This combination of Dwarf Sunflowers, Dwarf Sorghum and Millet Blend will give a full season of cover together with good feed potential from the shed seeds of Sunflower and Millet. Ideal driving cover for Pheasants or Partridge whilst at the same time supplying good winter holding potential. This mixture should not be sown into soil temperatures below 10°C.

#### Mixture contains -

- Dwarf Sorghum
- Dwarf Sunflowers
- Millet Blend

Sowing rate: 10kg per acre

Sowing date: April - June

Pack size: 1 acre pack

Cover from: July - February

# F C



## Pro Driver

Pro Driver is specifically designed for partridges. Pro Driver offers a thinner canopy for easier bird access and controlled drives. The mixture will show birds on even the most inclement of days. Camelina can help suppress many weed species. Pro Driver is also suitable as a Wild Bird Seed Mixture for Environmental Stewardship Schemes.

#### Mixture contains -

- Kale
- Linseed
- Camelina
- Quinoa
- Mustard

Sowing rate: 6.5kg per acre

Sowing date: April - May

Pack size: 1 acre pack

Cover from: September - February

# F C



## Sundown Mixture

### Stomp Aqua Tolerant

Very popular mixture of gamecover maize and sunflowers combining excellent standing power from the maize along with the seed from the sunflowers will give this mixture a great deal of interest for your gamebirds. The flowering sunflowers make this an aesthetically pleasing mixture as well as attracting insects to the mix. The sunflowers are Thiram treated and the maize is Mesurool treated.

#### Mixture contains -

- Gamecover Maize
- Sunflowers

Sowing rate: 13kg per acre

Sowing date: April - June

Pack size: 1 acre pack

Cover from: August - February

# F C



Golden Retriever



## Four Ten

### Stomp Aqua Tolerant

This mix provides feed and cover throughout the season. The dwarf sorghum will help provide added warmth lower down the maize canopy.

#### Mixture contains -

- Gamecover Maize
- Dwarf Sorghum

Sowing rate: 14kg per acre

Sowing date: April - June

Pack size: 1 acre pack

Cover from: August - February

# F C



Pro Driver

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MIXTURES

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# GAMECOVER MIXTURES



## Partridge Mix

Partridges prefer an open canopy mixture as they like to be able to see what is around them. This mixture has been used widely as a general mix and is well suited to northern conditions.

### Mixture contains -

- Spring Triticale
- Linseed
- Gold of Pleasure
- Kale
- Spring Barley

Sowing rate: 25kg per acre

Sowing date: April - May

Pack size: 1 acre pack

Cover from: July - February

**F C**

## Feed and Cover Mix

A diverse mix designed for a full season of good feed and cover for numerous bird species.

### Mixture contains -

- Spring triticale
- Spring barley
- Spring wheat
- Spring oats
- Dwarf sorghum
- White millet
- Linseed
- Japanese reed millet
- Red millet
- Gold of pleasure
- Quinoa

Sowing rate: 25kg per acre

Sowing date: April - June

Pack size: 1 acre pack

Cover from: September - February



**F C**

## Northern Star

Northern Star is ideal for use in colder, more exposed areas. The mixture will provide cover and feed as well as being a haven for wildlife throughout the season. The triticale in the mixture is beneficial where rabbit damage may be a problem. Sow in wide rows to enable birds to have free access.

### Mixture contains -

- Spring Triticale
- Spring Beans
- Forage Rape
- Kale
- Yellow Blossom Clover

Sowing rate: 20kg per acre

Sowing date: March - April

Pack size: 1 acre pack

Cover from: September - February

**F C N**



Partridge

## Labrador

Labrador is specifically designed for use in more exposed situations. Labrador will provide full season cover and some feed potential. Labrador can also be used as a brood rearing crop because of its ability to attract insects. Kales leaf canopy will ensure maximum cover until late February. This mixture may last up to two years. Triticale the main constituent may also make this suitable for areas where rabbit populations cause problems.

### Mixture contains -

- Spring Triticale
- Linseed
- Mustard
- Quinoa
- Kale

Sowing rate: 20kg per acre

Sowing date: March - April

Pack size: 1 acre pack

Cover from: September - February

**F C** 



Labrador



Northern Star

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# GAMECOVER MIXTURES

## Deer Lawn

A mixture blended to provide a blend of forage which will suit the needs of most deer species. The leguminous plants provides good levels of protein and minerals adding variation and interest to the diet. Deer Lawn can be sown into cleared areas of woodland where deer may graze undisturbed.

### Mixture contains -

- Meadow Fescue
- Timothy
- Intermediate PRG (Diploid)
- Late PRG (Diploid)
- Smooth Stalked Meadow Grass
- Black Medick
- Lucerne (pre inoculated)
- Sainfoin
- Common Bent Grass
- White Clover
- Red Clover
- Fenugreek
- Perennial Chicory
- Meadow Foxtail
- Plantain
- Red fescue

Sowing rate: 15kg per acre  
Sowing date: Spring or Autumn  
Pack size: 1 acre pack  
Cover from: Year round



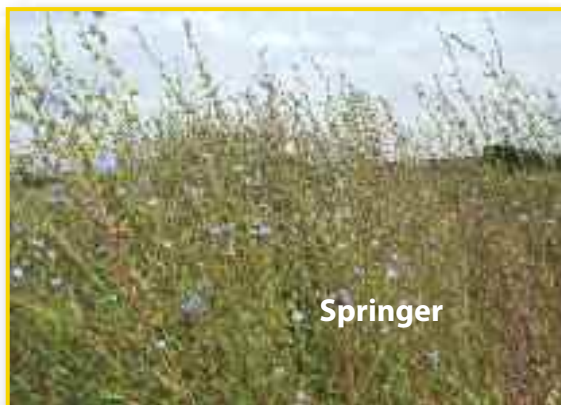
## Springer

Springer utilises the perennial nature of Chicory for its longer life. This excellent plant is tall, strong and will give excellent driving cover. During the first year the Spring Triticale will work as a "nurse" crop to allow the Chicory to establish, this will also give some useful autumn seed shed. The chicory is very drought tolerant due to deep rooting. An ideal mixture for 3 - 4 years cover without re sowing.

### Mixture contains -

- Spring Triticale
- Perennial Chicory

Sowing rate: 15kg per acre  
Sowing date: March - April  
Pack size: 1 acre pack  
Cover from: August onwards



Springer

## Overdrive

A superb combination of winter hardy cover provided by the Kale and high quality feed provided by the Quinoa. This mixture is excellent for holding birds. The Goldeneye Kale is treated with Cruiser SB.

### Mixture contains -

- Quinoa
- Goldeneye Kale- Cruiser SB Flea
- Beetle Treated

Sowing rate: 2.5kg per acre  
Sowing date: April - May  
Pack size: 1 acre pack  
Cover from: September - February



Overdrive



King Mix

## King Mix 2000 - Club root resistant Kale

Similar to Overdrive but with the club root resistant variety of kale "Caledonian". The Caledonian Kale comes with the protection of Cruiser SB for flea beetle control. King Mix 2000 is very popular and provides excellent bird holding cover.

### Mixture contains -

- Sandoval Quinoa
- Caledonian Kale (Flea Beetle Treated)

Sowing rate: 2.5kg per acre  
Sowing date: April - May  
Pack size: 1 acre pack  
Cover from: September - February



**HORIZON SEEDS**

MIXTURES



# GAMECOVER MIXTURES



## Kwik Fix

Kwik Fix mixture is a blend of mustard and fodder radish. They are both quick to establish and will give good cover for areas of failed cover in a short space of time. However they are not winter hardy and will therefore not last beyond Christmas once the hard frosts take them.

### Mixture contains -

- Mustard
- Fodder Radish

Sowing rate: 5kg per acre  
Sowing date: August - September  
Pack size: 1 acre pack  
Cover from: September - December

C

## Spaniel

Spaniel is a very quick growing cover crop which makes it ideal for late sowing. It is a drought tolerant mixture which can be broadcast into cereal stubble. Also very useful for patching areas where drought or flea beetle damage has occurred. Fodder radish retains seed until late in the season and can give an extra source of interest for birds. Much more hardy than straight mustard.

### Mixture contains -

- Carbon (Mustard/ Kale Hybrid)
- Mustard
- Forage Rape
- Fodder Radish

Sowing rate: 4.5kg per acre  
Sowing date: August - September  
Pack size: 1 acre pack  
Cover from: September - February

F C

## Late Cover Mixture

Late Cover Mix will grow to a height of between 2 and 3 feet. It is easy to establish and is an ideal mixture to broadcast after harvesting cereals. Will rapidly establish to provide winter cover.

### Mixture contains -

- Mustard
- Forage Rape
- Stubble Turnips
- Fodder Radish

Sowing rate: 5kg per acre  
Sowing date: August - September  
Pack size: 1 acre pack  
Cover from: September - December

C

## Jack Russell

**Stomp Aqua Tolerant**

Excellent feed source for a one year cover crop with the added bonus of herbicide tolerance.

### Mixture contains -

- Spring Triticale
- Sorghum
- Millet Blend
- Sunflower

F C



Sowing rate: 20kg per acre  
Sowing date: April - May  
Pack size: 1 acre pack  
Cover from: August - February



## Northern Shot Mix

Ideal choice for colder exposed areas. Northern Shot will last up to two years providing cover and feed as well as a wildlife haven. Kale, yellow blossom clover and chicory provides cover and feed in the second year.

### Mixture contains -

- Spring triticale
- Spring barley
- Spring wheat
- Kale
- Hybrid brassica
- Perennial brassica
- Yellow blossom clover

Sowing rate: 20kg per acre  
Sowing date: April - June  
Pack size: 1 acre pack  
Cover from: September - February

F C



Kwik Fix



Jack Russell



Spaniel

**HORIZON SEEDS**

MIXTURES

# GAMECOVER MIXTURES

## Nesting Rearing Mix

A mixture of varieties which provides a perfect rearing or release pen mixture. This mixture establishes rapidly and forms a hardwearing sward which will withstand intensive stocking. The legumes included will fix nitrogen and attract insects.

### Mixture contains -

- Late perennial ryegrass
- Amenity perennial ryegrass
- Creeping Red Fescue
- Timothy
- Meadow Fescue
- Birdsfoot Trefoil
- White Clover



Sowing rate: 15kg per acre  
 Sowing date: April - May  
 Pack size: 1 acre pack  
 Cover from; August onwards

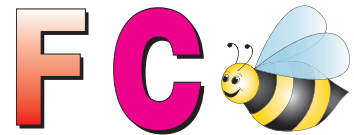


## Decoy Mix

Decoy mix is a mixture of six small seed producing species which will provide excellent cover and feed and will last throughout the season. It is easy to establish and offers an excellent alternative to traditional gamecover mixtures. Decoy can be used in ELS as a Wild Bird Seed Mix option.

### Mixture contains -

- Linseed
- Buckwheat
- Red Millet
- White Millet
- Fodder Radish
- Mustard



Sowing rate: 8kg per acre  
 Sowing date: April - May  
 Pack size: 1 acre pack  
 Cover from: September - February



## Terrier Organic Mix

Terrier contains organically sourced seed and provides a full season of cover and feed. There is a potential for this mixture to last for 2 years. Phacelia is a fantastic attraction for the important insect population that aids the holding of your gamebirds.

### Mixture contains -

- Spring Triticale *ORGANIC*
- Kale
- Phacelia
- Mustard



Sowing rate: 20kg per acre  
 Sowing date: April - May  
 Pack size: 1 acre pack  
 Cover from: September - February



**HORIZON SEEDS**

MIXTURES



# GAMECOVER MAIZE

**SOWING RATE:** 45,000 seeds per acre  
**SOWING DATE:** April - June  
**PACK SIZE:** 1 acre pack  
**COVER FROM:** August - February  
**SEED TREATMENT:** Thiram + MesuroI

## PROBLEMS TO AVOID WITH MAIZE

- Do not drill too early - Absolute minimum soil temperature 10°C
- No Compaction - The soil must be free of compaction
- Cold Wet Soils - Maize is a semi-tropical crop and will not grow well in cold wet soils. Preferring light, free draining soils.
- Fertiliser - Maize loves farmyard manure, incorporate this in the soil. For the best possible start we recommend the use of Maximaize



# FC

## All Season

### “The original Gamecover Maize Blend”

All Season maize blend is a unique blend of three maize varieties of varying maturity producing special benefits that cannot be achieved by growing a single variety.

Shooting cover requirements differ greatly and much depends on the specific job the crop is grown to do. Growing maize provides birds with the availability of grain to feed on throughout the season, plus cover due to the ability of the maize to stand to the end of the season. “All Season” is able in good or bad seasons to produce grain because of the range of maturities within the blend, which is described below.

Sowing maize should be left until the soil temperature has reached a minimum of 10° C for at least three consecutive days and is best left until the forecast is for that to be at least maintained or preferably increasing.

### Early Variety

In a good or bad season grain is produced of a satisfactory maturity to provide feed. The plants brackle over to make cobs available to the birds.

### Medium Variety

In a good season this will give good grain yields later than the earlier variety, spreading the feeding season and holding the birds.

### Late Variety

Produces very large strong plants for all season cover with good resistance to lodging because of its very high fusarium disease resistance.

# C

## Late Season Maize

Sometimes referred to as “Cobless Maize”. Growing a late maturing single variety of maize is sometimes an option for gamecover as it stands longer and remains green for longer into the late autumn and winter months.

Sowing maize should be left until the soil temperature has reached a minimum of 10° C for at least three consecutive days and is best left until the forecast is for that to be at least maintained or preferably increasing.

Opticoat ZM seed treatment available on request

## HORIZON SEEDS

C U T T I N G L E Y S

# GAMECOVER MILLET

**SOWING RATE:** 5kg/acre  
**SOWING DATE:** April - May  
**PACK SIZE:** 10kg  
**COVER:** September - February

## White Millet

Widely grown in the UK White Millet is an excellent source of nutritious seed that keeps gamebirds interested in the cover. Whilst not as early in seed maturity as red millet it is often used in mixtures but also sown in blocks. Often used as a flushing point.

## Red Millet

Red Millet is an earlier maturing millet than the widely used White Millet it is an excellent source of nutritious seed that keeps gamebirds interested in the cover. Due to the earlier maturity it is frequently used in a mix with White Millet to give a spread of shed seed. Often used as a flushing point.



## Japanese Reed Millet

Japanese Reed Millet is a stronger plant than other members of the millet family and is more winter hardy. When mixed with White Millet it provides an excellent cover and feed crop. (See Horizon Millet Blend.)



## Red and White Millet Blend (Millgame)

A mixture of white millet and the earlier shedding red millet. This combination of both red and white millet extends both the feeding and holding period. Red and White Millet Blend is often sown within gamecover maize or in blocks for feeding and flushing. Nutritious seeds which are freely shed keeps birds interested in your cover. This blend will give a long spread of seed maturity and shedding.

## Total Millet Blend

A mixture of white millet, red millet and winter hardy Japanese reed millet. This mixture provides a longer season of cover and feed. Total Millet Blend is often used as a windproof belt or flushing point around maize.



***HORIZON SEEDS***

M I L L E T



# GAMECOVER SORGHUM

**SOWING RATE:** 8kg Dwarf & Intermediate

12kg per acre Giant

**SOWING DATE:** April - Early June

**PACK SIZE:** 1 acre pack

**COVER FROM:** July - February

Sorghum is a tropical crop where it is grown for grain. You will need to be careful not to sow too early with any sorghum as it is very heat sensitive, requiring a minimum soil temperature of 14°C. The warmer the better for sorghum, remember that maize is a semi-tropical crop and requires less heat than sorghum. Heavy yielding bird feeder which lasts well into late January/ February and can be used in some stewardship and wild bird mixtures.

## Giant Sorghum

Provides a tall dense cover some 5 - 7 feet tall with average resistance to lodging. Best used as a flushing point or drilled as a windbreak to protect other cover crops. Offers no feed value to game birds. Sow in the spring after the risk of frost has passed. Do not drill early as it requires soil temperatures to be in the region of 14°C (Higher than maize!) Sowing depth 1 - 2 inches. Row width 70cm.

## Intermediate Sorghum

Very similar to the other sorghums i.e. Giant and Dwarf but as the name suggests grows to a height of around 4 - 5 feet. This gives it a better wind break possibility than the dwarf varieties whilst at the same time not being seen as an impenetrable barrier. Do not drill early as it requires soil temperatures to be in the region of 14°C. Drilling depth 1 - 2 inches with row widths at 70cm.



## Dwarf Sorghum

Sometimes referred to as "Milo" or "Grain" sorghum in other parts of the world. Dwarf Sorghum is shorter and stiffer stemmed than Giant Sorghum. Reaching a height of 3 - 3.5 feet with large leaves producing a leafier cover at ground level. Very good standing power provides a good warm holding area for birds. Remember not to drill too early as sorghum is a tropical crop and requires higher soil temperatures than maize at around 14°C.



***HORIZON SEEDS***

S O R G H U M

# GAMECOVER SUNFLOWER

**SOWING RATE:** 5kg per acre  
**SOWING DATE:** April - May  
**PACK SIZE:** 1 acre pack  
**COVER FROM:** July - November

Sunflowers make a fantastic sight when drilled in blocks but are also often grown as part of a mixture. Whilst providing an abundant source of seed in Autumn, sunflowers attract huge numbers of insects to the cover from the time they start to flower. Helps to attract finches and other wildlife to the cover crop. Sow after mid April when soil temperatures have reached a minimum of 10°C. Best results with sunflowers are seen in years which have a good sunny summer.

From late Autumn and on into the winter months once the seed has been shed, the senesced stems will remain standing, in normal weather conditions, to help give height to the cover. Flowering period is normally around two to three weeks in length in late July or early August with seed being ready for shedding from early October.



## Standard Gamecover Sunflowers

Will normally grow to a height of between 4.5 - 6 feet. If sown in blocks you can increase the size of the heads by reducing the seed rate, this also increases the stem thickness and therefore standing power. Remember minimum soil temperature required is 10°C.

## Dwarf Sunflowers

Dwarf sunflowers will grow to around 3 - 4 feet in height. Mostly sown in mixtures where they add excellent feed quality and quantity. They also bring in lots of insect activity during the flowering period approximately the end of July and into August for two to three weeks.



**HORIZON SEEDS**

S U N F L O W E R



# GAMECOVER BRASSICAS

FOLLOWING THE BAN ON THE USE OF NEONICOTINOIDS KALE IS EXEMPT FROM THIS BAN AS IT DOES NOT FLOWER IN THE YEAR OF USE. THERE WILL BE KALE AVAILABLE WITH CRUISER SB FOR 2017

**SOWING RATE:** 1 - 2kg per acre  
**SOWING DATE:** April - June  
**PACK SIZE:** 1 kg pack  
**COVER FROM:** September - February

## Kale

Kale provides good cover throughout the season and is a reliable crop for showing pheasants. Kale is able to grow in most situations but the variety chosen should have good winter hardiness. If left kale will often produce good re-growth in the second year.

## Grüner Angeliter

Grüner Angeliter is a long stemmed variety but still gives good standing power. Creates a good canopy with plenty of room under this for birds to run. A marrow stem type kale which is very suitable for forage as well as gamecover. Good winter hardiness and is likely to be very popular.

## Goldeneye Kale

Goldeneye a giant type kale variety with a balanced leaf to stem ratio providing a good canopy combined with good winter hardiness. Club root tollerent.



## Caledonian

Caledonian can provide excellent full season cover from September to February and has proved to be very winter hardy. The Club Root resistance of Caledonian enables it to be grown on the same areas as previous years.

## Interval

Interval (Rape/Kale Hybrid) a fantastic fast growing rape with kale parentage. Excellent establishment and early vigour. Ideal replacement for kale when sown in June or July. Interval gives an excellent winter hardy full season of cover.



***HORIZON SEEDS***

B R A S S I C A S

# GAMECOVER BRASSICAS

## Jonty

Jonty is a brassica that grows 2-3 feet tall producing a canopy with an open bottom. When sown in the autumn Jonty is able to provide cover within six weeks of sowing with cover lasting until Christmas. Not as winter hardy as kale but useful for late sowing. 1 - 2.5kg per acre.



## Fodder Radish

Another gamecover crop mostly used in mixtures for its seed shedding. Fodder Radish is a useful crop where brassica clubroot is present. It can be sown from July and into August and is therefore a good "patching" option if there have been any failed areas in your cover. Also makes very good green manure. You will come across fodder radish in many of the mixtures we sell. Good in all areas of the UK, with some frost tolerance. 2.5kg per acre.

## Carbon (Ethiopian Mustard x Kale Hybrid)

Sometimes not every crop you sow is a complete success. Flea Beetles, drought, cold wet seed beds, rooks and rabbits can make cover crop establishment extremely difficult. If your crop needs a boost or simply if you were unable to sow in the spring, then CARBON is the crop to sow in July or early August, providing cover from a short growth period. Ideal for use as a recover crop, produces very large Kale like leaves. Excellent warm cover and driving potential. Winter hardy outstanding winter colour with red/purple stems and leaf edging.

## Texsel Greens

A summer sown crop which offers better winter hardiness than mustard. Texsel Greens are often used in patching earlier spring sown crops that have not matured. Can be sown to "patch" but is also often found in late cover mixtures. 2kg per acre.



## Forage Rape Hobson

Quick establishing, Powdery mildew resistant variety with good winter hardiness. Hobson has a strong leaf canopy. A good variety for pre Christmas game cover. 4kg per acre.

## Forage Rape Hungry Gap

A more hardy tougher variety that will overwinter well lasting well into February so is well suited to late cover providing a very longstanding cover canopy. 4kg per acre.

## Camelina

A fast maturing free-branching plant which offers a good amount of seed. The open nature of the plant makes this particularly suitable for partridge. It is often used as part of a mixture and is a constituent of the Partridge Mixes. 5kg per acre.

***HORIZON SEEDS***

B R A S S I C A S



# GAMECOVER STRAIGHTS

## Artichokes

PERENNIAL GAMECOVER - SPRING SOWN TUBERS

The crop will grow in most soil types and is not geographically limited. Individual plants may grow to over six feet tall and will remain green until mid autumn. From that time there will be a gradual die back, but should maintain cover until the end of the shooting season. Careful management is required in spring each year where new tubers will have formed between rows, if these are left unchecked the crop will cease to be of use as birds will not be able to move freely through the crop. Amongst the disadvantages of the crop is that once you have artichokes on a piece of land you will have a problem removing them totally. New tubers are being formed all the time during the growing season. Another drawback is that the tubers must be sown within a very short time of being harvested as once the tubers start to dry off they are of no use. Tubers should be harvested, bagged and re-sown within 48 hours for best results. Excellent results are gained from treating the tubers as potatoes for sowing purposes.

## Buckwheat

Buckwheat is a quick growing and versatile crop which produces lots of nectar rich flowers. These are brilliant at attracting insects to the cover. There is a good amount of seed shed in early autumn which again gives feed interest to the birds. Most often found in mixtures but can be sown in patches. Available in 5kg packs.



## Canary Grass (Phalaris Aquatica)

Canary grass is a long lasting (5-6 years) cover crop which, when matured, will grow into bushy clumps and reach up to 6 feet tall. Also known as holdfast, it is a non UK native variety. Grows well in the UK. Pack size is 2.5kg per acre.

## Reed Canary Grass (Phalaris Arundinacea)

Reed Canary Grass is a UK native variety and therefore may prove more winter hardy and suited to a wider range of soil types than Canary Grass.

**SPRING MANAGEMENT WILL BE REQUIRED EACH YEAR TO THIN OUT BETWEEN THE ROWS TO ALLOW GOOD ACCESS FOR YOUR BIRDS.**



***HORIZON SEEDS***

S T R A I G H T S

# GAMECOVER STRAIGHTS

## Chicory

As a perennial crop chicory will give better cover in the second and subsequent years. During the first year it will be similar in size to a large dandelion but by the summer of the second year it is a tall and bushy plant. Chicory offers good drought resistance but does not like wet ground. We are offering chicory as a straight in 2kg packs or in the mixture Springer.



## Linseed

Linseed is often used in gamecover for its excellent seed shedding. It is most often used as part of a mixture but can be sown as a straight stand. It is another plant with no overall canopy which makes it very suitable for partridge. It is featured in our Partridge mixtures.



## Phacelia

Phacelia is an extremely fast growing catch crop with brilliant bluey purple flowers. This attracts a huge quantity of insects to the cover. A good provider of both Pollen & Nectar. Phacelia competes well with weeds and is often used as a green manure crop. Phacelia does readily re-seed itself.



## Mustard

Mustard is a very versatile crop which can be sown as part of a mixture or as a patching crop due to its fast growth. It is often sown or broadcast into cereal stubbles. It can be sown over a wide period of time from spring right through to mid September. Often used as a green manure. Mustard is not winter hardy but does offer excellent early season cover.

## Brown Mustard

Brown mustard is a more winter hardy plant that grows quickly as with other mustard. It can be sown or broadcast into cereal stubble. Although more expensive than standard mustard it will maintain cover through to February as in the picture below.



**HORIZON SEEDS**

C U T T I N G   L E Y S



# GAMECOVER STRAIGHTS

## Spring Triticale

True spring varieties of Triticale do not need a period of vernalisation to allow them to produce an abundance of seed. The standing power of Triticale is excellent taken together with the fact that rabbits do not like it. Triticale is a useful addition to the gamecover portfolio. Can be sown as a straight but most often found in mixtures. Will provide cover late into the season particularly used in partridge mixtures.



## Yellow Blossom Sweet Clover

Often known as Sweet Clover this is a useful hardy biennial crop. It is often grown as part of a mixture where it can offer a free atmospheric nitrogen fix. A good nectar producing plant that thrives on neutral and calcareous soils. 2nd year growth can reach up to 2 metres in height.



## Quinoa

Quinoa is an excellent provider of high protein seed which is shed throughout the season. Although Quinoa can be sown on its own it is more frequently grown in a mix. Frequently grown with Kale as in Kingmix and Overdrive.



**Although our Gamecover catalogue is comprehensive it is not exhaustive and we know you may have special requirements that are not offered.**

**If this is the case please feel free to contact the office or your local agent for more information and we will do our best to help you.**



***HORIZON SEEDS***

S T R A I G H T S

# COUNTRYSIDE STEWARDSHIP SCHEMES

## CAP Reform Options

There are now two new schemes under CAP:

- Basic Payment Scheme (BPS)
- Rural Development Programme (RDP)

Both are aimed at improving the number of species in our countryside, particularly focusing on insects and bird life, as well as improving soils and waterways. Biodiversity is the key driver.

The BPS incorporates the compulsory 'Greening Rule' which gives options for Permanent Grassland, Crop Diversification and Ecological Focus Areas (EFA). The RDP includes the new environmental scheme known as the 'Countryside Stewardship Scheme' (CSS). It is split into 3 groups which began in January 2016.

- Higher Tier (Replaces HLS)
- Mid Tier (Replaces ELS)
- Lower Tier (Capital Grants)

Most ELS or HLS schemes previously undertaken will continue.

## Countryside Stewardship

Countryside Stewardship (CS) will replace Environmental Stewardship, The English Woodland Grant and Capital Grants from the catchment sensitive farming programme.

The new scheme is delivered by Natural England, The Forestry Commission and the Rural Payments Agency and has three main elements; Higher Tier, Mid Tier and Lower Tier.

### Higher Tier

For the most environmentally important sites and woodland.

### Mid Tier

Option to address a wide range of environmental issues including water pollution and improving the farmed environment for birds and pollinators.

Within the two tiers applicants may choose a specific group of management options that will bring benefits to wild pollinators, farmland birds and other farm wildlife.

### Options as follows

- Pollen and nectar resources for pollinators and chick food for birds
- Nesting sites for birds and pollinators
- Winter food for seed eating birds

Farmers applying for this package score more highly in CS applications

## Basic Payment Scheme

The Basic Payment Scheme (BPS) replaced single payment Scheme on 01/01/2015 and under the BPS farmers and landowners are required to meet the "Greening Rules" in order to receive a greening Payment.

### EFA's MADE UP FROM THE FOLLOWING:

#### Catch Crops and Cover Crops

Catch crops must be established by 31st August and kept until at least 1st October.

Cover crops must be established by 1st October and kept until at least 15th January.

Either option must have a mix of at least two different allowable crops, 1 cereal and one non-cereal, must establish quickly, achieve good ground cover and have different root depths.

Allowable crops are: Rye, Oats, Barley, Phacelia, Mustard, Vetch, Lucerne and Oil Radish. Grass can also be used but it must be undersown in the previous crop and established. Minimum area= 0.01ha (100m<sup>2</sup>).

**WEIGHTING** – 1 metre in length will count as 0.3m<sup>2</sup>

#### Nitrogen Fixing Crops

An eligible list of leguminous crops has been published, see below. Legumes with grass cannot be counted. Nitrogen fixing crops must be in the ground between the 1st May and 30th June. Minimum plot size 0.01ha.

**WEIGHTING** – 1 metre in length will count as 0.7m<sup>2</sup>

Use: Peas, Beans, Vetch, Lucerne, Sanfoin, Birdsfoot Trefoil, Black Medick, Red, White, Crimson, Alsike and Yellow Blossom Clovers.

#### Fallow Land

Fallow period is from 1st January to 30th June.

A minimum width of 2m and minimum area of 0.01ha. Wild Bird Mixtures & Nectar Rich mixtures are encouraged. Temporary grass & Buffer Strips can be managed as "Fallow". Grass can be sown during the fallow period as long as there is no "production" grazing or cutting during the fallow period. Fallow land can be mown but the cuttings must be left on the land. Grass can be utilised after the Fallow Period.

**WEIGHTING** – 1 metre in length will count as 1.0m<sup>2</sup>

#### Buffer Strips

Must be next to or run parallel with a watercourse. Minimum width of 1 metre. The same buffer strips can be used to meet both greening and cross compliance rules.

**WEIGHTING** – 1 metre in length will count as 9m<sup>2</sup>

#### Hedges

Hedges need to be next to arable land. Minimum length 20 metres, with no minimum height or width. Newly planted hedges are eligible.

**WEIGHTING** – 1 metre in length will count as 10m<sup>2</sup>

# HORIZON SEEDS

C S S C H E M E S



# COUNTRYSIDE STEWARDSHIP SCHEMES



AB1 DENOTES A SUITABLE MIX FOR THE COUNTRYSIDE STEWARDSHIP SCHEME AND RELEVANT CSS CODE

ARABLE	CSS CODE
NECTAR FLOWER MIX	AB1
BASIC OVERWINTER STUBBLE	AB2
BEETLE BANKS	AB3
WHOLECROP CEREALS	AB7
FLOWER RICH MARGINS & PLOTS	AB8
WINTER BIRD FOOD	AB9
BRASSICA FODDER CROP	AB13
TWO YEAR SOWN LEGUME FALLOW	AB15
AUTUMN SOWN BUMBLEBIRD MIX	AB16

GRASSLAND	CSS CODE
TAKE FIELD CORNERS OUT OF FIELD MANAGEMENT	GS1
RYEGRASS SEED SET AS WINTER FOOD FOR BIRDS	GS3
LEGUME AND HERB RICH SWARDS	GS4
CREATION OF SPECIES RICH GRASSLAND	GS8
CREATION OF GRASSLAND FOR	GS14

ORGANIC	CSS CODE
CSS OPTION TITLE	CSS CODE
OVERWINTERED STUBBLE	OP1
WILD BIRDSEED MIXTURE	OP2
MULTI SPECIES LEY	OP4
UNDERSOWN CEREAL	OP5

SOIL & WATER	CSS CODE
CSS OPTION TITLE	CSS CODE
4-6m BUFFER STRIP ON CULTIVATED LAND	SW1
4-6m BUFFER STRIP ON INTENSIVE GRASS	SW2
IN FIELD GRASS STRIPS	SW3
12-24m WATERCOURSE BUFFER STRIP ON CULTIVATED LAND	SW4
ENHANCED MANAGEMENT OF MAIZE CROPS	SW5
WINTER COVER CROPS	SW6
ARABLE REVERSION TO GRASSLAND WITH LOW FERTILISER INPUT	SW7
MANAGEMENT OF INTENSIVE GRASSLAND ADJACENT TO A WATERCOURSE	SW8

WETLANDS	CSS CODE
CSS OPTION TITLE	CSS CODE
BUFFERING IN FIELD PONDS AND DITCHES IN IMPROVED GRASSLAND	WT1
BUFFERING IN FIELD PONDS AND DITCHES IN ARABLE LAND	WT2

**HORIZON SEEDS**

MIXTURES

# BUFFER STRIP MIXTURES

## BGM1 (With Cocksfoot)

- 20% Hard Fescue
- 20% Creeping Red Fescue
- 20% Cocksfoot
- 20% Timothy
- 20% Tall Fescue

**Sowing rate** 20kg/ha

**Pack size** 20kg



## BGM2 (Without Cocksfoot)

- 20% Hard Fescue
- 20% Creeping Red Fescue
- 20% Chewings Fescue
- 20% Timothy
- 20% Tall Fescue

**Sowing rate** 20kg/ha

**Pack size** 20kg

## BGM 3 (with Clover and Cocksfoot)

- 20% Hard Fescue
- 20% Creeping Red Fescue
- 15% Cocksfoot
- 20% Timothy
- 15% Tall Fescue
- 5% Birdsfoot Trefoil
- 5% Small White Clover

**Sowing rate** 20kg/ha

**Pack size** 20kg



## BGM4 (With Wildflowers)

- 15% Hard Fescue
- 15% Slender Red Fescue
- 10% Smooth Stalked Meadow Grass
- 15% Creeping Red Fescue
- 25% Chewings Fescue
- 5% Browntop Bent Grass
- 5% Crested Dogstail
- 0.5% Wild Carrot (Native)
- 0.5% Black Knapweed (Native)
- 1% Red Clover
- 1% Birdsfoot Trefoil
- 0.5% Ox Eye Daisy (Native)
- 0.25% Yarrow
- 5% Sainfoin
- 1% Black Medick
- 0.25% Selfheal (Native)

**Sowing rate** 20kg/ha

**Pack size** 20kg



## Legume & Herb Rich Mixture

- 25% Late Perennial Ryegrass
- 20% Meadow Fescue
- 15% Timothy
- 10% SSMG
- 10% Creeping Red Fescue
- 10% Red Clover
- 5.6% Sainfoin
- 1% Lucerne (inoculated)
- 1% Birdsfoot Trefoil
- 1% Sheeps Burnet
- 0.5% Ribwort Plantain
- 0.35% Black Knapweed (N)
- 0.3% Sheeps Sorrel
- 0.25% Yarrow

**Sowing rate** 16kg/ha

**Pack size** 20kg



**HORIZON SEEDS**

MIXTURES



# WILD BIRD MIXTURES

Other mixtures are available for exposed northern situations and organic environments. Please enquire.

## WBS 1

### 1 Year Spring Sown

*Attracts Tree Sparrows*

60% Spring Triticale  
30% Spring Barley  
5% White Millet  
2% Red Millet  
2% White Mustard  
1% Fodder Radish  
**Sowing Rate** 40kg/ha  
**Pack size** 20kg



## WBS 4

### 1 Year Spring Sown

*Attracts Finches & Buntings*

30.25% Spring Barley  
25% Spring Triticale  
15% Spring Wheat  
8.25% Dwarf Sorghum  
7% White Millet  
5% Linseed  
4% Japanese Reed Millet  
2.75% Red Millet  
2.75% Gold of Pleasure  
**Sowing Rate** 40kg/ha  
**Pack size** 20kg



## WBS 2

### 1 - 2 Year Spring Sown

*Attracts Grey Partridge*

55% Spring Triticale  
25% Spring Barley  
7% Kale  
4% Fodder Radish  
4% White Millet  
3% Quinoa  
2% Red Millet  
**Sowing Rate** 40kg/ha  
**Pack Size** 20kg



## WBA 1

### 1 Year Autumn Sown

40% Winter Triticale  
30% Winter Barley  
20% Winter Vetch  
10% Forage Rape  
**Sowing Rate** 40kg/ha  
**Pack Size** 20kg

## WBA 2 Autumn Sown Bumblebird Mixture 2 Year Autumn Sown

28% Winter Triticale  
25% Winter Barley  
10% Fodder Radish  
10% Birdsfoot Trefoil  
8% Winter Vetch  
5% Crimson Clover  
5% Gold of Pleasure  
5% Kale  
2.5% Red Clover  
0.5% Black Knapweed  
0.5% Wild Carrot  
0.5% Oxeye Daisy  
**Sowing Rate** 40kg/ha  
**Pack Size** 20kg



## WBS 3

### 1 Year Spring Sown

*Attracts Finches & Buntings*

20% Spring Barley  
8% White Millet  
6% Linseed  
3% Japanese Reed Millet  
3% Red Millet  
**Sowing Rate** 40kg/ha  
**Pack size** 20kg



# HORIZON SEEDS

MIXTURES

# POLLEN AND NECTAR MIXTURES

## Pollen and Nectar (with grass)

10% Meadow Fescue  
10% Tall Oat Grass  
10% Cocksfoot  
10% Timothy  
10% Tall Fescue  
1% Black Knapweed  
5% Red Clover  
6% Alsike  
8% Birdsfoot Trefoil  
6% Winter Vetch  
10% Sainfoin  
0.25% Musk Mallow  
5% Creeping Red Fescue  
5% Hard Fescue  
3.75% Yellow Trefoil

**20kg/ha**

**Pack Size: 10kg**



## Butterfly & Bumblebee Mix (with Grass)

15% Creeping Red Fescue  
10% Sheeps Fescue  
10% Common Bent Grass  
15% Hard Fescue  
9% Smooth Stalked Meadow Grass  
5% Yorkshire Fog  
4% Kidney Vetch  
6% Lucerne (Inoculated)  
1% Phacelia  
3% Tufted Hair Grass  
3% Birdsfoot Trefoil  
2% Agrimony  
2% Vetch  
2% Ribwort Plantain  
1.75% Devils Bit Scabious  
2% Sheeps Sorrell  
1.75% Red Clover  
1% Field Pansy  
0.25% Betony  
0.25% Black Knapweed  
1% Alsike Clover  
5% Rough Stalked Meadow Grass

**16kg/ha**

**Pack Size: 1kg**



## Nectar Rich Bronze

50% Sainfoin  
18% Winter Vetch  
10.5 Alsike  
8.5% Red Clover  
10% Birds Foot Trefoil  
3% Lucerne (inoculated)

**10-15kg/ha**

**Pack size: 10kg**



## Nectar Rich Gold

40% Sainfoin  
17% winter Vetch  
10% Red Clover  
11% Alsike Clover  
10% Birdsfoot Trefoil  
10% Lucerne (inoculated)  
1.5% Black Knapweed  
0.5% Musk Mallow

**10-15kg/ha**

**Pack size: 10kg**



## WF1

42% Sainfoin  
11% Red Clover  
10% Birdsfoot Trefoil  
6% Yarrow  
6% Winter Vetch  
3% Black Knapweed (N)  
5% Lucerne (inoculated)  
4% Alsike Clover  
3% Black Medick  
2% Ox-eye Daisy (N)  
2% Meadow Buttercup (N)  
2% Red/White Campion (N)  
1% Cow Parsley (N)  
1% Selfheal  
1% Wild Carrot  
1% Lady's Bedstraw

**5-10kg/ha**

**Pack size: 1kg**



***HORIZON SEEDS***

MIXTURES



# COVER CROP MIXTURES

A cover crop is grown for the protection and enrichment of the soil. Primarily it can manage soil erosion, fertility, soil quality, moisture retention, weeds, pests and diseases. Cover crops are varied to meet the needs of individual requirements. It is possible to select a short term duration right up to a long term crop lasting months or even years. Cover crops can provide benefits in rotations over a bare fallow. With careful selection cover crops can also provide supplementary feeding options for livestock and wildlife.

It is important to select an appropriate cover crop to suit the needs of the farm, mixes can differ greatly providing a wide spectrum of uses. Cover crops also needed to be selected with a view to fitting farm practice, capabilities, expertise and available equipment. Cover Crops can be used in Ecological Focus Areas (EFA) of the Basic Farming Scheme and as an option in agri-environment schemes, providing, of course, they comply with the special regulations.

## Top Green

80% Rye

20% Vetch

**50-60kg/ha**

Cost effective mix for all round ground cover & nitrogen fixing

## Sow Green

80% Oats

20% Vetch

**50kg/ha**

Most Suitable for areas where Take All may be an issue.



## Cover Green

60% Rye

30% Vetch

10% Mustard

**40-50kg/ha**

Rapid establishing mix for giving all round ground cover and nitrogen fixing.

## Super Green

80% Oats

15% Vetch

5% Phacelia

**50kg/ha**

Weed suppression, nitrogen fixing and excellent biomass.



## Soil Plus

70% Rye

20% Vetch

10% Oilseed Radish

**40-50kg/ha**

Deep rooting with nitrogen fixation for real soil improvement.



**Special mixture options, including those with Black Oats, as well as straights are available. Please inquire for more information.**

***HORIZON SEEDS***

MIXTURES

# COVER CROPS

**Spring Rye** (EFA) - weed suppressant , nitrogen lift & hold

**Spring Oats** (EFA) - weed suppressant, allelopathic, nitrogen lift & hold

**Black Oats** (EFA) - weed suppressant, allelopathic, nematode control, mycorrhizal, erosion control, quick cover

**Buckwheat** (Non EFA) - quick soil cover, weed suppressor, nectar for pollinators and beneficial insects, topsoil loosener, rejuvenator for low-fertility soils



**Buckwheat**

**Phacelia** (EFA) - Excellent disease break crop, insect attractant, hover flies eat aphids, breaks down quickly for C,P,K and Mg

**Vetch** (EFA) - excellent nitrogen fixer especially if drilled early, very compatible with rye and oats

**Stubble Turnip** (Non EFA) - nitrogen lift & hold, soil conditioner, but would need ploughing in prior to drilling



**Oil Radish**

**Linseed** (Non EFA) - Attract Beneficials & Pollinators, deep rooted, organic matter, mycorrhizal

**White Mustard** (EFA) - weed suppressant, high glucosinilates giving biocidal effects against weeds and pests. Reduces BCN's

**Brown Mustard** (EFA) - weed suppressant, high glucosinilates giving biocidal effects against weeds and pests. Reduces BCN's. Fast establishing

**Mustard Ethiopian** (EFA) - weed suppressant, high glucosinilates giving biocidal effects against weeds and pests. Reduces BCN's



**Oil Radish**

**Red Clover** (Non EFA) - great nitrogen fixer but needs to be drilled early

**Crimson Clover** (Non EFA) rapid growing annual, deep tap root with some nitrogen fixing. Not frost hardy for good degradability

**Berseem Clover** (Non EFA) - Allelopathic Effect, Attract Beneficials & Pollinators, Weed Suppressor, Green Manure, Nitrogen Production



**Crimson Clover**

**Oil /Fodder Radish** (EFA) - soil conditioner, weed suppressant and reduces BCN's



# HEDGEROWS

## Hedgerows

Hedges need to be next to Arable Land. Minimum length 20m with no minimum height or width. Newly planted hedges are eligible. Hedges are normally planted during their dormancy period roughly between November and February dependant on weather.

**Weighting** – 1m Length will count as 10m<sub>2</sub>

**Use:** Select the species you require (if you cannot see what you want please ask).

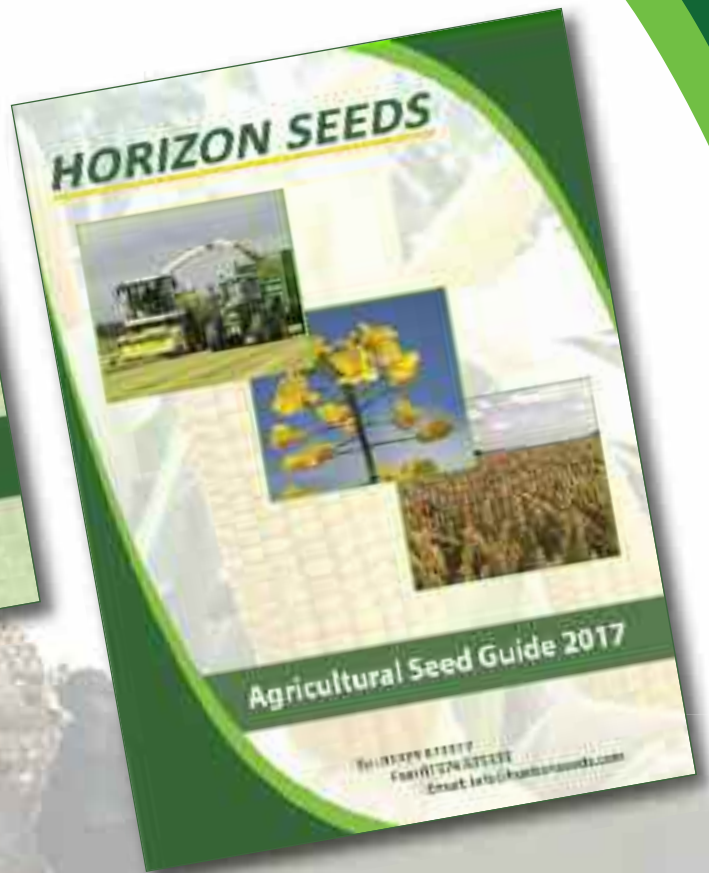
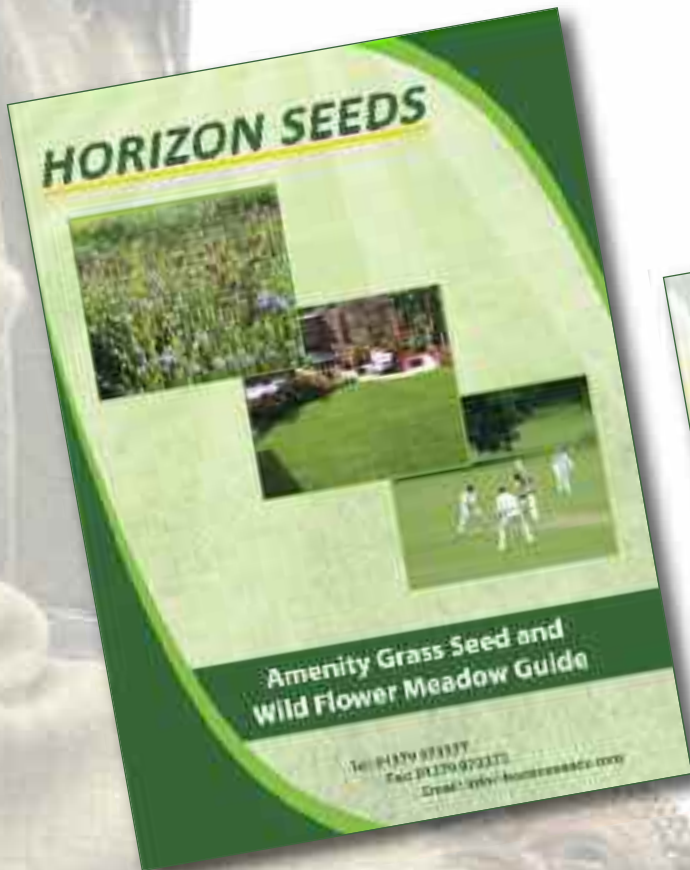
FIELD MAPLE	(Acer Campestre)
RED BARKED DOGWOOD	(Comus Alba)
CLIMBING HONEYSUCKLE	(Lonicera Periclymenum)
COMMON BUCKTHORN	(Rhamnus Cathartica)
QUICKTHORN	(Crataegus Monogyna)
SPINDLE TREE	(Euonyumus Europaeus)
ALDER BUCKTHORN	(Rhamnus Frangula)
RHAMANUS ROSE	(Rosa Rugosa)
WAYFARING TREE	(Viburnum Lautana)
GORSE	(Ulex Europaeus)
BOX	(Buxus Sempervirens)
DOGWOOD	(Comus Sanguinea)
HAZEL	(Corylus Avellana)
CRAB APPLE	(Malus Sylvestris)
SNOWBERRY	(Symphoricarpus Albus)
HOLLY	(Ilex Aquifolium)
BLACKTHORN	(Prunus Spinosa)
ELDERBERRY	(Sambucus Nigra)
GUELDER ROSE	(Viburnum Opulus)

At Horizon Seeds we work with a tree nursery in North Yorkshire to supply top quality two year grown bare root stock, lifted and delivered during the dormancy period normally November-February. Spiral Guards, Canes, Ties etc. are all available. A minority of species are container grown or occasionally less than two years old. A full range of Broad Leaved Species as well as conifers are available. **Please ask for your competitive quote.**



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