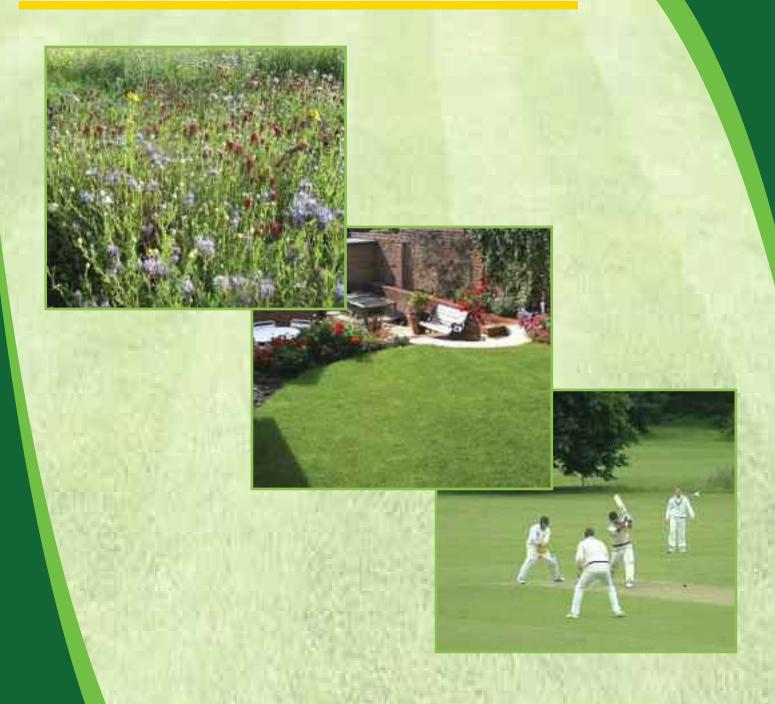
HORIZON SEEDS



Amenity Grass Seed and Wild Flower Meadow Guide

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Amenity Grass Seed and Wild Flower Meadow Guide

Page 2 Amenity Grass and Guide

Page 3 Amenity Grass

Page 4 Amenity Grass

Page 5 Complete Wildflower Meadow Guide

Page 6 Complete Wildflower Meadow Mixes

Page 7 Complete Wildflower Meadow Mixes

Page 8 Complete Wildflower Meadow Mixes

Page 9 Other Specialist Horizon Seed Mixtures

Page 10 Trees and Hedging

Introduction

Welcome to the new Horizon Seeds Amenity Grass Seed and Wild Flower Meadow Guide. The products in this brochure have been carefully selected and designed to meet the needs of our customers.

Horizon Seeds is a long established business, supplying an extensive range of arable, forage and amenity seed to farmers and growers, both conventional and organic throughout Great Britain.

As a specialist seed company our reputation is built on a foundation of quality and efficient service. We continue to supply seed of the highest quality through a network of very experienced seed specialists. These specialists with their product and local knowledge, plus our support, are in the best position to help you make the correct decisions about all of your seed requirements.

Currently we produce three different brochures, Agricultural Seed Guide, Gamecover & Environmental Guide and of course, this one. Should you require copies of these please contact us and we will be pleased to send copies to you by return.

If for any reason you are unsure or unable to find what you require our local specialists are always happy to discuss your needs or alternatively please call our office and we would be glad to assist.



Cant find what you are looking for?

Looking for a specific mixture?

Speak to your local agent or call the office and we will be only to pleased to assist you!



Horizon Amenity Mixtures

Sow from Mid March to Early October into a warm soil of at least 5°C. Ideally there should be plenty of moisture and the weather is neither too cold nor too hot. Germination is normally between seven and ten days.

It is important that you select an appropriate mixture, by using our guide you will be able to select the mixture most suited to you. It is best to be realistic about your requirements, choosing fine lawn mixture for a highly manicured lawn is an ideal but if pets and children are likely to use the area frequently it will lead to disappointment.

A good seed bed is the undoubtedly the key to establishing a successful lawn. Particular attention should be paid to clearing weeds and cultivating the surface to a fine tilth.

Seed bed preparation

Eliminate perennial weeds such as couch grass or bindweed well before beginning to prepare the seed bed. Use weed killer, or hand weed. Do not use a residual weed killer as it can remain in the soil and will prevent the grass from germinating.

Dig or rotovate the site to a depth of 20-25cm (8-10in). Dig in some well rotted manure or other organic matter (especially on a sandy soil) to hold moisture. Leave for at least a week for the surface to settle.

To get the level surface that is crucial for the best lawns, tread the area several times in different directions and then rake several times also in different directions.

Apply and rake in 70g per sq m (2oz per sq yd) of general-purpose fertiliser.

Sowing

Divide large areas into small sections, or small plots into square metres or square yards.

Divide the seed quantity in half and sow half the seed over the whole area by working in parallel rows lengthways. Repeat the process with the remaining seed, working in parallel rows widthways.

Lightly rake over the sown area to cover the majority of the seeds with soil. If the weather remains dry for two or three days water gently with a light sprinkler. If dry conditions persist repeat watering as necessary while the seeds are germinating and the young seedlings are becoming established.

Aftercare

When the seedling grasses are about 5-7.5cm (2-3in) high, lightly refirm the soil ideally with a garden roller or the rear roller of a cylinder or rotary mower. In the absence of these try carefully treading raised areas.

Two or three days later cut the grass down by about one-third of its length. Ideally use a cylinder-bladed mower. Before mowing remove the front roller on cylinder mowers to prevent flattening the grass. Ensure the blades are really sharp.

No further mowing is usually necessary for autumn-sown turf until the following spring, but for spring-sown turf, progressively reduce the height of the cut to that suitable for mature lawns, cutting every three to seven days as required.

Use the lawn as little as possible during the first season. If autumn-sown try to avoid using it earlier than June and if spring-sown, use it as little as possible up to late autumn.

During September top-dress with sieved compost to fill in any irregularities. There is no need to feed spring-sown grass in the first autumn. But do feed autumn-sown lawns the spring following sowing. Birds can eat seeds and may disturb the seedbed by 'dust-bathing' Try using bird tape which produces a humming noise as the wind vibrates the tape. Alternatively increase sowing rate by 50 percent to compensate for seed losses.

Perennial weeds will undoubtedly germinate in the new lawn. Weed seedlings are usually killed when mowing begins, but perennial weeds are best weeded out by hand using a hand trowel or fork. Coarse grasses may appear in new lawns and these are best removed promptly, as they can't be killed by lawn weedkillers.

Selective lawn weedkillers should not be used on newly sown lawns for at least six months after germination.

Amenity Grass Mixtures



Horizon Popular

20% Conrad - Amenity Perennial Ryegrass

10% Berlioz - Amenity Perennial Ryegrass

50% Double - 4Turf Tetraploid Perennial Ryegrass

20% Herald - Strong Creeping Red Fescue

Suited to general landscaping, back lawns.

A mixture designed to produce a hard wearing, durable lawn. Ideally suited for play areas for children or general landscaping around buildings. The classic back garden mixture.

Sowing rate: 35gm/m²

Available in 20kg bags - sufficient to sow 570 m²



Horizon Scape

20% Conrad - Amenity Perennial Ryegrass

25% Wagner - Chewings Fescue

30% Pinafore - Slender Creeping Red Fescue

20% Herald - Strong Creeping Red Fescue

5% Highland - Browntop Bent

Suited to quality lawns, turf production, golf fairways, golf tees.

Horizon Scape is designed to produce an attractive turf which can be cut to 10mm. The inclusion of a fine leaved Amenity Perennial Ryegrass will give a certain amount of wear tolerance to the turf whilst not detracting from the overall fine appearance.

Sowing rate: 35gm/m²

Available in 20kg bags - sufficient to sow 570 m²

HORIZON SEEDS
AMENITY GRASS

Amenity Grass Mixtures



Horizon Hardwear

20% Berlioz - Amenity Perennial Ryegrass

40% Double - 4Turf Tetraploid Perennial Ryegrass

40% Maxima - Strong Creeping Red Fescue

Suited to hard wearing lawns, sports pitches, parks, landscape.

4 Turf Tetraploid Perennial Ryegrass Cultivar Double is adding to the Amenity Perennial Ryegrass which has been the natural wear and tear tolerant species ideal for hard wearing lawns and summer sports pitches. The inclusion of Strong Creeping Red Fescue gives this mixture a 'good bottom' which recovers well from cutting. Can be mown to approximately 15mm.

Sowing rate: 35gm/m²

Available in 20kg bags - sufficient to sow 570 m²



Horizon Green

80% Calliope - Chewings Fescue

20% Jorvik - Browntop Bent

Suited to fine and ornamental lawns, golf greens.

This mixture will withstand mowing down to 5mm but requires careful maintenance

Sowing rate: 50gm/m²

Available in 20kg bags - sufficient to sow 400 m²



60% Esquire - Perennial Ryegrass

35% Pinafore - Slender Creeping Red Fescue

5% Highland - Browntop Bent

Suited to areas requiring low maintenance.

The new mixture is ideal for use in a variety of landscape situations, including housing estates, road verges, parkland and play areas. Establishing rapidly to provide a dark, dense and attractive lawn with a reduced cutting requirement.

Sowing rate: 50gm/m²

Available in 20kg bags - sufficient to sow 400 m²



Horizon Fine

40% Calliope - Chewings Fescue

55% Maxima - Strong Creeping Red Fescue

5% Highland - Browntop Bent

Suited to quality lawns, landscape, banked areas.

Whilst producing an attractive fine lawn, this mix will require less maintenance than the Horizon Green mixture but can still be mown to 10mm.

Sowing rate: 50gm/m²

Available in 20kg bags - sufficient to sow 400 m²





Horizon Shade and Drought Tolerant

20% Pinafore - Slender Creeping Red Fescue 35% Herald - Strong Creeping Red Fescue

30% Wagner - Chewings Fescue

15% Dumas - Hard Fescue

Suited to shady situations, lighter faster draining soil types.

The species in this mix all exhibit natural drought tolerance and the ability to grow well in shaded areas. Once established this mix will give a pleasing green lawn all year round. A number of the species have a large underground root system which, once mature, will assist the grass seeking water deep in the soil.

Sowing rate: 35gm/m²

Available in 20kg bags - sufficient to sow 570 m²



Horizon Sport

20% Berlioz - Amenity Perennial Ryegrass

60% Double - 4Turf Tetraploid Perennial Ryegrass

20% Ponderosa - Amenity Perennial Ryegrass

Suited to winter and summer sports pitches, cricket, football etc and sports renovation.

The use of amenity perennial ryegrass in this mixture ensures the best wear tolerance available in grass. A sowing rate of 35gm per square meter is recommended but for extra wear tolerance increasing the seed rate will also increase the mixtures ability to recover. Will give an attractive sward.

Sowing rate: 35gm/m²

Available in 20kg bags - sufficient to sow 570 m²



Triumph Horse Paddock (Long Term – 6 Years Plus)

13KG/ACRE PACK

2.00kg Premium Intermediate Perennial Ryegrass

2.00kg Maitz Late Perennial Ryegrass
 2.00kg Pastour Late Perennial Ryegrass
 3.00kg Cancan Late Perennial Ryegrass

1.50kg Comer Timothy

2.00kg Heidrun Creeping Red Fescue

0.50kg Geronimo Smooth Stalked Meadow Grass

13.00kg/Acre

A high yielding horse grazing mixture

Triumph Horse Paddock is based on leafy varieties with high grazing yields and very good ground cover. This provides a durable 'bottom' and is essential for a good horse paddock. A quality Horse Paddock mixture with no 'fillers' as is often the case with competitors comparative mixtures.



Horizon Roadside D.O.T.

25% Double - 4Turf Tetraploid Perennial Ryegrass

20% Maxima - Strong Creeping Red Fescue

30% Triana - Hard Fescue

10% Evora - Smooth Stalked Meadow Grass

10% Highland - Browntop Bent

5% Galway - White Clover

Suited to roadside verges and poor quality soil types.

This mixture is ideally suited for road verges where the soil may not be of the best quality and where quick establishment, short growth, and some salt and exhaust fume tolerance are called for. 4Turf perennial ryegrass ensures fast establishment, improved drought tolerance and improved stability thanks to the deeper rooted growth habit.

Sowing rate: 20gm/m² Overseeding rate: 10gm/m² Available in 20kg bags - sufficient to sow 1000 m²

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HORIZON SEEDS
AMENITY GRASS



Complete Wildflower Meadow Mixtures

Why sow Wild Flora?

Since the 1940's the UK has seen vast reductions in native plant populations and meadows. Sowing of wild native grass and flower seed has an important role to play in starting to redress the balance. At the same time you will be providing much needed help for birds, butterflies and mammals. Our wild flower mixtures will provide you with an attractive pleasing meadow.

Native Wild Flora

Using seed of UK native origin is vitally important. These are seeds collected from specially selected UK wild habitat populations where plants have adapted to and flourished in particular conditions as a collection of ecotypes over many years.

Horizon Wildflower Meadow Mixtures

With the build up of stocks of native wild flowers and grass we have developed a range of Wildflower Meadow Mixtures suitable for most soil conditions detailed below. These are composed of 20% native wildflowers and 80% grasses which act as a "nurse crop" suppressing weeds and allowing the wild flowers to establish and flourish.

Wild flowers are listed as follows:

% Common Name (Latin Name) Flowering Height in cm COLOUR All the mixes listed are 20% wild flower 80% background grasses

Wild Flower Meadow Information for Successful Establishment

When considering a wildflower meadow thought should be given to choosing a suitable mixture containing species to suit soil type.

Mixture composition/Suitable Sites

In general wild flowers prefer poor, low fertility soils.

They also establish and thrive better on weed free sites.

Subsoils often provide weed free areas with a low nutrient status and are therefore ideal for wild flora planting.

Consider the soil, its type, texture, fertility and Ph. Look at the site aspect as regards to sun and shade requirements.

Try to avoid using sites infested with perennial weed.

Our Wild Flower Meadow Mixtures contain 20% native British wild flowers and 80% slow growing grasses (by weight).

Site preparation

On high fertility sites the removal of the top 50-75mm of soil helps by taking away excess nutrients and the weed seed bank.

If unable to remove the top soil then create a stale seedbed by repeated cultivation and spray off with a glyphosate based herbicide.

Repeat at least twice to reduce the dormant weed seeds lying underneath the topsoil whose germinations are triggered by disturbance

Continue cultivation until you have a weed free, medium to fine tilth.

Avoid applying fertiliser.

Drilling

Sowing can take place during most of the year however the months of March to May and August to early October are generally the most suitable.

80/20% Wildflower mixtures should be sown at 5 grams/sq. metre (20 kilos/acre). Cornfields Annual Mixture at 2 grams/sq. metre (8 kilos/acre).

Mix seed thoroughly as wild flower species differ widely in seed size, small seeded species inevitably drop to the bottom of packaging during carriage.

It is helpful to bulk up the seed with an inert carrier such as silver sand to obtain an even and well distributed sowing. It also serves as a useful marker to show where seed has been sown during the seeding operation.

Seeding can be done by hand broadcasting, seed fiddle, tractor mounted broadcasting spinner or tractor mounted grass seed drill.

After broadcasting Cambridge roll (ribbed roller) to firm and level and ensure seed to soil contact. Never cover or bury seed.

Management/Maintenance

Wildflower Meadow Mixtures are mainly composed of perennial species.

They will not flower in the first year but to see the real benefit in the following and future years a regular cutting programme will result in a much improved display of flora species.

The degree of cutting management should be in line with the fertility of the site.

Ongoing Management

Autumn Sown - First year maintenance

Cut March to 6-8 cm height.

Continually cut as necessary to keep to this height through to mid to late April. Final cut to 6cm Late September to October.

Autumn Sown - Continuing maintenance

Cut March to 6-8cm height.

Leave and allow Wild Flora to develop and flower.

Final Cut to 6 to 8 cm in Late September to October.

Spring Sown - First year maintenance

Cut to 6cm height approximately 6 - 7 weeks after sowing. When sward height exceeds 12 - 15 cm cut again. Final cut to 6cm Late September to October.

Spring Sown - continuing maintenance

As for Autumn sown continuing maintenance.

Maintenance Both Sowings

Remove cuttings in all cases to prevent die back of the sward.

Never spray overall with any type of weed killer.

Spot treat only persistent weeds with glyphosate.

Never cut excessively low as you may destroy broad leaved plants.

Once established and to reduce thatch build up it is advisable following the final cut to grass harrow.

100% wild flower mixtures are also available on request





Popular General Purpose Meadow

This mixture of 10 wild flower species will produce a colourful diverse sward across a range of soil types including neutral loamy soils.

Wild Flower Species

2.0% Common Knapweed (Centaurea nigra)	Jun-Sep	<mark>30-</mark> 80cm	Purple
2.4% Ladys Bedstraw (Galium verum)	Jun-Sep	50-80cm	Yellow
2.4% Meadow Buttercup (Ranunculus acris)	May-Sep	30-100cm	Yellow
2.4% Oxeye daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
2.4% Ribwort Plantain (Plantago lanceolata)	May-Sep	5-50cm	Brown
2.0% Red Campion (Silene dioica)	May-Nov	60-80cm	Red
2.4% Salad Burnet (Sanguisorba minor)	May-Aug	15-50cm	Yellow
2.0% Self Heal (Prunella vulgaris)	Jun-Sep	5-20cm	Purple
1.0% Wild Carrot (Daucus carota)	Jun-Sep	30-100cm	White
1.0% Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White

Background Grasses

8% Common Bent (Agrostis capillaris)

16% Chewings Fescue (Festuca rubra ssp commutata)

12% Crested Dogstail (Cynosurus cristatus)

20% Sheeps Fescue (Festuca ovina)

24% Slender Creeping Red Fescue (Festuca rubra ssp litoralis)



This mixture of 15 wild flower species will produce a colourful diverse sward across a range of soil types including neutral loamy soils.

Wild Flower Species

0.8%	Birdsfoot Trefoil (Lotus corniculatus)	Jun-Aug	5-40cm	Yellow
		3		
1.6%	Common Knapweed (Centaurea nigra)	Jun-Sep	30-80cm	Purple
1.0%	Common Vetch (Vicia sativa ssp nigra)	May-Sep	15-120cm	Purple
0.8%	Field Scabious (Knautia arvensis)	Jul-Aug	50-80cm	Yellow
2.0%	Ladys Bedstraw (Galium verum)	Jun-Sep	50-80cm	Yellow
2.0%	Meadow Buttercup (Ranunculus acris)	May-Sep	30-100cm	Yellow
0.8%	Musk Mallow (Malva moschata)	Jul-Oct	20-80cm	Pink
2.0%	Oxeye daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
1.6%	Red Campion (Silene dioica)	May-Nov	50-80cm	Red
1.6%	Ribwort Plantain (Plantago lanceolata)	May-Sep	5-50cm	Brown
2.0%	Salad Burnet (Sanguisorba minor)	May-Aug	15-50cm	Yellow
1.6%	Self Heal (Prunella vulgaris)	Jun-Sep	30-90cm	Purple
0.8%	Wild Carrot (Daucus carota)	Jun-Sep	30-100cm	White
0.6%	Yellow Rattle (Rhinanthus minor)	May-Aug	15-40cm	Yellow
0.8%	Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White

Background Grasses

8% Common Bent (Agrostis capillaris)

16% Chewings Fescue (Festuca rubra ssp commutata)

12% Crested Dogstail (Cynosurus cristatus)

20% Sheeps Fescue (Festuca ovina)

24% Slender Creeping Red Fescue (Festuca rubra ssp litoralis)

Special General Purpose Meadow

This mixture of 20 wild flower species will produce a colourful diverse sward across a range of soil types including neutral loamy soils.

Wild Flower Species

0.8%	Birdsfoot Trefoil (Lotus corniculatus)	Jun-Aug	5-40cm	Yellow
0.6%	Betony (Stachys officinalis)	Jun-Sep	30-80cm	Purple
0.6%	Bladder Campion (Silene vulgaris)	May-Sep	80cm	White
1.4%	Common Knapweed (Centaurea nigra)	Jun-Sep	30-80cm	Purple
0.6%	Common Sorrel (Rumex acetosa)	May-Jul	30-100cm	Pink
0.8%	Common Vetch (Vicia sative ssp nigra)	Apr-Sep	20-45cm	Purple
0.4%	Cowslip (Primula veris)	Apr-Jun	10- <mark>30cm</mark>	Yellow
0.6%	Field Scabious (Knautia arvensis)	Jul-Sep	30-90cm	Lilac
1.8%	Lady's Bedstraw (Galium verum)	Jun-Sep	50-80cm	Yellow
2.0%	Meadow Buttercup (Ranunculus acris)	May-Sep	30- <mark>100cm</mark>	Yellow
0.6%	Musk Mallow (Malva Moschata)	Jul-Oct	20-80cm	Pink
1.8%	Oxeye daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
1.6%	Red Campion (Silene dioica)	May-Nov	50-80cm	Red
1.2%	Ribwort Plantain (Plantago lanceolata)	May-Sep	5-50cm	Brown
1.6%	Salad Burnet (Sanguisorba minor ssp min)	May-Aug	15-50cm	Yellow
1.6%	Self Heal (Prunella vulgaris)	Jun-Sep	5-20cm	Purple
0.4%	Tufted Vetch (Vicia cracca)	Jun-Aug	100-200cm	Purple
0.6%	Wild Carot (Daucus carota)	Jun-Sep	30-100cm	White
0.4%	Yellow Rattle (Rhinanthus minor)	May-Aug	20-50cm	Yellow
0.6%	Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White

Background Grasses

8% Common Bent (Agrostis capillaris)

16% Chewings Fescue (Festuca rubra ssp commutata)

12% Crested Dogstail (Cynosurus cristatus)

20% Sheeps Fescue (Festuca ovina)

24% Slender Creeping Red Fescue (Festuca rubra ssp litoralis)





Clay Soils Meadow

Comprising of species usually found and adapted to growing on soils with a high clay content.

Wild Flower Species

1.0%	Birdsfoot Trefoil (Lotus corniculatus)	Jun-Aug	5-40cm	Yellow
1.4%	Betony (Stachys officinalis)	Jun-Sep	30-80cm	Purple
1.8%	Common Knapweed (Centaurea nigra)	Jun-Sep	30-80cm	Purple
1.6%	Common Sorrel (Rumex acetosa)	May-Jul	30-100cm	Pink
0.4%	Cowslip (Primula veris)	Apr-Jun	10-30cm	Yellow
0.4%	Kidney Vetch (Anthyllis vulneraria)	May-Aug	15-30cm	Yellow
1.6%	Lady's Bedstraw (Galium verum)	Jun-Sep	50-80cm	Yellow
2.4%	Meadow Buttercup (Ranunculus acris)	May-Sep	30-100cm	Yellow
0.2%	Meadow Cranesbill (Geranium pratense)	Jun-Sep	30-60cm	Blue
1.2%	Oxeye Daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
0.6%	Pepper Saxifrage (Silaum silaus)	Jun-Aug	80cm	Yellow
0.6%	Ragged Robin (Lychnis flos-cuculi)	May-Jun	30-80cm	Red
0.8%	Red Campion (Silene dioica)	May-Nov	50-80cm	Red
1.6%	Ribwort Plantain (Plantago lanceolata)	May-Sep	5-50cm	Brown
1.8%	Self Heal (Prunella vulgaris)	Jun-Sep	5-20cm	Purple
0.4%	Tufted Vetch (Vicia cracca)	Jun-Aug	100-200cm	Purple
0.6%	Wild Carot (Daucus carota)	Jun-Sep	30-100cm	White
0.8%	Wild Red Clover (Trifolium pratense)	May-Sep	10-30cm	Red
0.8%	Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White

Background Grasses

8% Common Bent (Agrostis capillaris)

20% Creeping Red Fescue (Festuca rubra ssp rubra)

30% Crested Dogstail (Cynosurus cristatus)

2% Meadow Foxtail (Alopecurus pratensis)

20% Slender Creeping Red Fescue (Festuca rubra)



Calcareous Soils Meadow Mixture

A carefully selected range of species found overlying limestone or chalk. Usually free draining but prone to drought conditions and supporting low growing vegetation.

Wild Flower Species

1.0%	Birdsfoot Trefoil (Lotus corniculatus)	Jun-Aug	5-40cm	Yellow
1.0%	Bulbous Buttercup (Ranunculus bulbosus)	May-Aug	15-35cm	Yellow
0.6%	Burnet-saxifrage (Pimpinella saxifraga)	Jul-Aug	100cm	White
1.0%	Common Knapweed (Centaurea nigra)	Jun-Sep	30-80cm	Purple
0.4%	Cowslip (Primula veris)	Apr-Jun	10-30cm	Yellow
0.4%	Dropwort (Filipendula vulgaris)	May-Aug	20-40cm	White
1.4%	Field Scabious (Knautia arvensis)	Jul-Sep	30-90cm	Lilac
1.0%	Greater Knapweed (Centaurea scabiosa)	Jul-Aug	50-90cm	Purple

Hoary Plantain (Plantago media)	May-Jul	15-45cm	Pink
Kidney Vetch (Anthyllis vulneraria)	May-Aug	15-30cm	Yellow
Ladys Bedstraw (Galium verum)	Jun-Sep	50-80cm	Yellow
Meadow Buttercup (Ranunculus acris)	May-Sep	30-100cm	Yellow
Oxeye daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
Rough Hawkbit (Leontodon hispidus)	Jun-Sep	0-60cm	Yellow
Salad Burnet (Sanguisorba minor ssp min)	May-Aug	15-50cm	Yellow
Self Heal (Prunella vulgaris)	Jun-Sep	30-90cm	Purple
Small Scabious (Scabiosa columbaria)	Jun-Aug	20-45cm	Lilac
Wild Basil (Clinopodium vulgare)	Jul-Sep	30-80cm	Pink
Wild Carrot (Daucus carota)	Jun-Sep	30-100cm	White
Wild Marjoram (Origanum vulgare)	Jul-Sep	30-60cm	Purple
Wild Mignonette (Reseda lutea)	Jun-Aug	20- <mark>50</mark> cm	Yellow
Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White
	Hoary Plantain (Plantago media) Kidney Vetch (Anthyllis vulneraria) Ladys Bedstraw (Galium verum) Meadow Buttercup (Ranunculus acris) Oxeye daisy (Leucanthemum vulgare) Rough Hawkbit (Leontodon hispidus) Salad Burnet (Sanguisorba minor ssp min) Self Heal (Prunella vulgaris) Small Scabious (Scabiosa columbaria) Wild Basil (Clinopodium vulgare) Wild Carrot (Daucus carota) Wild Marjoram (Origanum vulgare) Wild Mignonette (Reseda lutea) Yarrow (Achillea millefolium)	Kidney Vetch (Anthyllis vulneraria) May-Aug Ladys Bedstraw (Galium verum) Jun-Sep Meadow Buttercup (Ranunculus acris) May-Sep Oxeye daisy (Leucanthemum vulgare) May-Oct Rough Hawkbit (Leontodon hispidus) Jun-Sep Salad Burnet (Sanguisorba minor ssp min) May-Aug Self Heal (Prunella vulgaris) Jun-Sep Small Scabious (Scabiosa columbaria) Jun-Aug Wild Basil (Clinopodium vulgare) Jul-Sep Wild Carrot (Daucus carota) Jun-Sep Wild Marjoram (Origanum vulgare) Jul-Sep Wild Mignonette (Reseda lutea) Jun-Aug	Kidney Vetch (Anthyllis vulneraria) May-Aug 15-30cm Ladys Bedstraw (Galium verum) Jun-Sep 50-80cm Meadow Buttercup (Ranunculus acris) May-Sep 30-100cm Oxeye daisy (Leucanthemum vulgare) May-Oct 20-100cm Rough Hawkbit (Leontodon hispidus) Jun-Sep 0-60cm Salad Burnet (Sanguisorba minor ssp min) May-Aug 15-50cm Self Heal (Prunella vulgaris) Jun-Sep 30-90cm Small Scabious (Scabiosa columbaria) Jun-Aug 20-45cm Wild Basil (Clinopodium vulgare) Jul-Sep 30-80cm Wild Carrot (Daucus carota) Jun-Sep 30-100cm Wild Marjoram (Origanum vulgare) Jul-Sep 30-60cm Wild Mignonette (Reseda lutea) Jun-Aug 20-50cm

Background Grasses

4% Browntop Bent (Agrostis capillaris)

10% Chewings Fescue (Festuca rubra ssp commutata)

10% Crested Dogstail (Cynosurus cristatus)

4% Golden Oatgrass (Trisetum flavescens)

1% Quaking Grass (Brizia media)

30% Sheeps Fescue (Festuca ovina)

15% Slender Creeping Red Fescue (Festuca rubra)

3% Smaller Catstail (Phleum pratense ssp bertolonii)

3% Upright Brome (Brome erectus)

Damp/Wet Soils Meadow Mixture

A selection of species typically found coping and flourishing in damp, wet moisture retentive soils typical of many free draining loam and alluvial lowland meadows.

Wild Flower Species

0.6%	Betony (Stachys officinalis)	Jun-Sep	30-80cm	Purple
2.0%	Common Knapweed (Centaurea nigra)	Jun-Sep	30-80cm	Purple
0.8%	Common Sorrel (Rumex acetosa)	May-Jul	30-100cm	Pink
0.8%	Devils-bit Scabious (Succisa pratensis)	Jul-Sep	20-80cm	Lilac
0.8%	Great Burnet (Sanguisorba officinalis)	Jun-Sep	40-90 <mark>cm</mark>	Crimson
0.8%	Greater Birdsfoot Trefoil (Lotus pedunculat	tus) Aug-Sep	5-15cm	Yellow
1.6%	Lady's Bedstraw (Galium verum)	Jun-Sep	50-80 <mark>cm</mark>	Yellow
1.6%	Meadow Buttercup (Ranunculus acris)	May-Sep	30-100cm	Yellow
0.2%	Meadow Cranesbill (Geranium pratense) Jun-Sep	30-60cm	Blue
1.6%	Oxeye daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
0.4%	Ragged Robin (Lychnis flos-cuculi)	May-Jun	30-80cm	Red
1.2%	Red Campion (Silene dioica)	May-Nov	50-80cm	Red
1.6%	Ribwort Plantain (Plantago lanceolata)	May-Sep	5-50cm	Brown
2.4%	Self Heal (Prunella vulgaris)	Jun-Sep	5-20cm	Purple
0.6%	St. Johns Wort (Hypericum tetrapterum)	Jul-Sep	30-60cm	Yellow
0.8%	Tufted Vetch (Vicia cracca)	Jun-Aug	30-90cm	Purple
0.6%	Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White
1.6%	Yellow Rattle (Rhinanthus minor)	May-Aug	15-40cm	Yellow

Background Grasses

7% Common Bent (Agrostis capillaris)

15% Chewings Fescue (Festuca rubra ssp commutata)

12% Crested Dogstail (Cynosurus cristatus)

7% Golden Oatgrass (Trisetum flavescens)

4% Meadow Foxtail (Alopecurus pratensis)

15% Sheeps Fescue (Festuca ovina)

20% Slender Creeping Red Fescue (Festuca rubra ssp litoralis)





Dry/Sandy Soils Meadow Mixture

A typical mixture for free draining light sandy soils containing species that are deep rooting and selected to combat and tolerate the lack of moisture.

Wild Flower Species

1.0%	Birdsfoot Trefoil (Lotus corniculatus)	Jun-Aug	5-40cm	Yellow
1.0%	Black Medick (Medicago lupulina)	May-Sep	15-50cm	Yellow
1.6%	Bladder Campion (Silene vulgaris)	May-Sep	80cm	White
1.0%	Bulbous Buttercup (Ranunculus bulbosus)	May-Aug	15-35cm	Yellow
1.6%	Common Knapweed (Centaurea nigra)	Jun-Sep	30-80cm	Purple
0.6%	Common Sorrel (Rumex acetosa)	May-Jul	30-100cm	Pink
0.4%	Cowslip (Primula veris)	Apr-Jun	10-30cm	Yellow
0.8%	Field Scabious (Knautia arvensis)	Jul-Sep	30-90cm	Lilac
0.6%	Hoary Plantain (Plantago media)	May-Jul	15-45cm	Pink
2.0%	Lady's Bedstraw (Galium verum)	Jun-Sep	50-80cm	Yellow
1.2%	Musk Mallow (Malva Moschata)	Jul-Oct	20-80cm	Pink
1.6%	Oxeye daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
0.6%	Ribwort Plantain (Plantago lanceolata)	May-Sep	5-50cm	Brown
0.8%	Salad Burnet (Sanguisorba minor ssp min)	May-Aug	15-50cm	Yellow
1.0%	Self Heal (Prunella vulgaris)	Jun-Sep	5-20cm	Purple
1.6%	Vipers Bugloss (Echium vulgare)	Jun-Sep	30-90cm	Blue
1.0%	Wild Carot (Daucus carota)	Jun-Sep	30-100cm	White
0.6%	Wild Mignonette (Reseda lutea)	Jun-Aug	20-50cm	Yellow
1.0%	Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White

Background Grasses

	_			
8%	Common	Rent	(Aarostis	capillaris)

8% Chewings Fescue (Festuca rubra ssp commutata)

16% Crested Dogstail (Cynosurus cristatus)

20% Sheeps Fescue (Festuca ovina)

16% Slender Creeping Red Fescue (Festuca rubra)

4% Smaller Catstail (Phleum pratense ssp bertolonii)

8% Smooth Stalked Meadowgrass (Poa pratensis)



Hedgerow/Light Shade Mixture

A Mixture tolerant of semi-shade and suitable for field boundary margins and clearings, bridle paths etc.

Wild Flower Species

1.6% Agrimony (Agrimonia eupatoria)	Jul-Sep	30-60cm	Yellow
2.0% Common Knapweed (Centaurea nigra)	Jun-Sep	30-80cm	Purple
1.0% St Johns Wort (Hypericum perforatum)	Jun-Sep	30-90cm	Yellow

1.0%	Foxglove (Digitalis purpurea)	Jun-Sep	50-150cm	Purple
0.8%	Garlic Mustard (Alliaria petiolata)	May-Aug	90-125cm	White
1.6%	Hedge Bedstraw (Galium mollugo)	Jun-Sep	100cm	White
1.2%	Hedge Woundwort (Stachys sylvatica)	Jul-Aug	30-100cm	Red
0.6%	Nettle Leaved Bellflower (Campanula trachelium)	Jul-Sep	80cm	Blue
0.6%	Oxeye Daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
2.0%	Red Campion (Silene dioica)	May-Nov	50-80cm	Red
0.4%	Ragged Robin (Lychnis flos-cuculi)	May-Jun	30-80cm	Red
2.0%	Self Heal (Prunella vulgaris)	Jun-Sep	5-20cm	Purple
0.4%	Tufted Vetch (Vicia cracca)	Jun-Aug	100-200cm	Purple
0.6%	Upright Hedge Parsley (Torilis joponica)	Jul-Aug	80-100cm	White
0.4%	Wild Basil (Clinopodium vulgare)	Jul-Sep	30-80cm	Pink
1.0%	White Campion (Silene latifolia)	May-Sep	30-1 <mark>00cm</mark>	White
0.4%	Wild Angelica (Angelica sylvestris)	Jul-Aug	30-150cm	White
1.6%	Wood Avens (Geum urbanum)	May-Jun	40-60cm	Yellow
0.8%	Yarrow (Achillea millefolium)	Jun-Oct	20-45cm	White

Background Grasses

4% Common Bent (Agrostis capillaris)

16% Chewings Fescue (Festuca rubra ssp commutata)

12% Crested Dogstail (Cynosurus cristatus)

16% Sheeps Fescue (Festuca ovina)

16% Slender Creeping Red Fescue (Festuca rubra)

4% Tufted Hairgrass (Deschampsia caespitosa)

12% Wood Meadowgrass (Poa nemoralis)

Wetland/Water Edge Meadow Mixture

A diverse selection suited to saturated soils, pond and stream edge and areas prone to periodic waterlogging.

Wild Flower Species

0.2%	Common Fleabane (Pulicaria dysenterica)	Jul-Sep	30-80cm	Yellow
0.8%	Devils-bit Scabious (Succisa pratensis)	Jul - Sep	20-80cm	Lilac
0.8%	Gypseywort (Lycopus europaeus)	Jun - Sep	100cm	White
1.4%	Greater Birds-foot Trefoil (Lotus pendunculatus)	Aug-Sep	5-15cm	Yellow
0.2%	Hemp Agrimony (Eupatroium cannabinum)	Jul-Sep	100cm	White
1.6%	Meadow Buttercup (Ranunculus acris)	May-Sep	30-100cm	Yellow
2.8%	Meadowsweet (Filipendula ulmaria)	Jun-Aug	150cm	White
0.8%	Oxeye Daisy (Leucanthemum vulgare)	May-Oct	20-100cm	White
0.4%	Purple Loosestrife (Lythrum salicaria)	Jul-Sep	50-100cm	Purple
1.0%	Ragged Robin (Lychnis flos-cuculi)	May-Jun	30-80cm	Red
1.2%	Red Campion (Silene dioica)	May-Nov	50-80cm	Red
1.0%	Ribwort Plantain (Plantago lanceolata)	May-Sep	5-50cm	Brown
1.6%	Self Heal (Prunella vulgaris)	Jun-Sep	5-20cm	Purple
0.4%	Sneezewort (Achillea ptarmica)	Jul-Sep	20-150cm	White
0.4%	St. Johns Wort (Hypericum tetrapterum)	Jul-Sep	30-60cm	Yellow
0.8%	Tufted Vetch (Vicia cracca)	Jun-Aug	100-200cm	Purple
0.4%	Water Avens (Geum rivale)	Apr-Jul	60cm	Pink
1.2%	Wild Angelica (Angelica sylvestris)	Jul-Sep	150cm	White
3.0%	Yellow Iris (Iris pseudacorus)	May-Aug	15-40cm	Yellow

Background Grasses

10% Common Bent (Agrostis capillaris)

0.4% Common Sedge (Carex nigra)

18% Crested Dogstail (Cynosurus cristatus)

8% Meadow Foxtail (Alopecurus pratensis)

0.4% Pendulous Sedge (Carex pendula)

8% Rough Meadow-Grass (Poa trivialis)

8% Sheeps Fescue (Festuca ovina)

27.2% Slender Creeping Red Fescue (Festuca rubra)

HORIZON SEEDS

Other Specialist Horizon Seed Mixtures

Cornfield Annuals (100% flower seed)

Suited to most soil types including fertile sites. A mixture containing popular bright, colourful traditional cornfield annuals. This mixture can be used alone or with a perennial mixture to obtain flowering in the first summer.

10%	Corn Chamomile (Anthemis arvensis)	Jun-Jul	15-50cm	White
45%	Corn Cockle (Agrostemma githago)	Jun-Aug	60-120cm	Purple
20%	Cornflower (Gentaurea cyanus)	Jun-Aug	30-60cm	Blue
15%	Corn Marigold (Chrysanthemum segetum)	Jun-Oct	15-45cm	Yellow
10%	Corn Poppy (Papaver rhoeas)	Jun-Sep	30-60cm	Red

These are unlike perennial wild flowers in that they establish quickly and grow well on fertile soils and produce a bright colourful display in one growing season from an autumn or spring sowing. It is possible to get some re-establishment from self-sown seeds if, after flowering, the ground is re-cultivated. A regular re-seeding programme is required to build up a seed bank within the soil so that disturbance alone will regenerate the annuals.





Pollen and Nectar Mixture (with grass)

A specific blend of grasses and wild flowers designed to provide a long period of pollen and nectar to beneficial insects and birds.

10%	Meadow Fescue
10%	Tall Oat Grass

10% Cocksfoot

10% Timothy

10% Tall Fescue

1% Black Knapweed (N)

5% Red Clover6% Alsike

8% Birdsfoot Trefoil6% Winter Vetch

10% Salnfoin

0.25% Musk Mallow (N)

5% Creeping Red Fescue

5% Hard Fescue 3.75% Yellow Trefoil

Sowing Rate: 20kg/ha

Pack Size: 10kg

Butterfly & Bumblebee Mix (with Grass)

Designed specifically to attract butterflies and bees over a long spring and summer flowering period.

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 (N)

6% Lucerne (Inoculated)

1% Phacelia

3% Tufted Hair Grass

3% Birdsfoot Trefoil

2% Agrimony

2% Vetch

2% Ribwort Plantain

1.75% Devils Bit Scabious (N)

2% Sheeps Sorrell

1.75% Red Clover

1% Field Pansy (N)

0.25% Betony (N)

0.25% Black Knapweed (N)

1% Alslike Clover

5% Rough Stalked Meadow Grass

Sowing Rate: 16kg/ha

Pack Size: 1kg



Trees and Hedging

Horizon Seeds are able to offer a range of trees and hedging plants from our quality supplier in Yorkshire. We can supply most species as single trees or in volume. Trees, shrubs and hedging are available as bare rooted field grown plants or as container grown. Simply talk it through with your local Horizon Seeds Specialist.

Hedging is normally planted at around 6 plants per metre, double rowed in a zigzag

pattern to give best density.

A full range of protection is also available, Spiral Guards, Canes, Stakes,

Mesh Guards etc. which can be delivered with your order.

Broad Leaved Trees

Ash - Fraxinus excelsion Aspen - Populus tremula

Common Alder - Alnus glutinosa

Grey Alder - Alnus incana

Italian Alder - Alnus cordata

Beech - Fagus sylvatica

Silver Birch - Betula pendula

Downy Birch - Betula pubescens Bird Cherry - Prunus avium

Wild Cherry - Prunus avium

Horse Chestnut - Aesculus hippocastanum

Sweet Chestnut - Castanea sativa

Hornbeam - Carpinus betulus

Lime Broad Leaved - Tilia platyphyllos

Lime Small Leaved - Tilia cordata

Field Maple - Acer campestre

Common Oak - Quercus robur

Holm Oak - Quercus ilex

Red Oak - Quercus rubra

Sessile Oak - Quercus petraea

White Poplar - Populas alba

Grey Poplar - Populas canescens

Black Poplar - Populas nigra

Lombardy Poplar - Populus nigra italica

Hybrid Poplar - Populas robusta

Rowan - Sorbus aucuparia

Bay willow - Salix pentandra

Common Walnut - Juglans regia

Crack Willow - Salix fragilis

Goat Willow - Salix caprea

Golden Willow - Salix vitelline

Grey Willow - Salix cinerea

White Willow - Salix alba

Violet Willow - Salix daphnoides

Whitebeam - Sorbus aria

Swedish Whitebeam - Sorbus intermedia

Conifers

Lawsons Cypress - Chamaecyparis lawsoniana

Douglas Fir - Pseudotsuga menziesii

Grand Fir - Abies grandis

Caucasian Fir - Abies nordmanniana

Noble Fir - Abies procera

Western Hemlock - Tsuga heterophylla

European Larch - Larix decidua

Hybrid Larch - Larix eurolepis

Japanese Larch - Larix leptolepis

Norway Spruce - Picea abies

Serbian Spruce - Picea omorika

Sitka Spruce - Picea sitchensis

Corsican Pine - Pinus nigra maritima

Lodgepole Pine - Pinus contorta

Scots Pine - Pinus sylvestris

Western Red Cedar - Thuja plicata

Yew - Taxus baccata













Hedging/Shrubs

Beech (Copper) - Fagus purpurea

Blackthorn - Prunus Spinosa

Box - Buxus sempervirens

Bramble - Rubus fruiticosa

Honeysuckle (Climbing) - Lonicera periclymenum

Honeysuckle (Evergreen) - Lonicera nitida

Laurel (Common) - Prunus laurocerasus

Maple (Field) - Acer campestre

Pear (Wild) - Pyrus communis

Plum (Wild) - Prunus myroblana

Privet - Liqustrum ovalifolium

Privet (Wild) - Ligustrum vulgare

Quickthorn - Crataegus monogyna

Rose (Burnet) - Rosa spinosissima

Rose (Dog) - Rosa canina

Rose (Field) - Rosa arvensis

Rose (Rhamanas) - Rosa rugosa

Snowberry - Symphoricarpus albus

Spindle Tree - Euonymus europaeus Sweet Briar - Rosa rubiginosa

Wayfaring Tree - Viburnum lantana

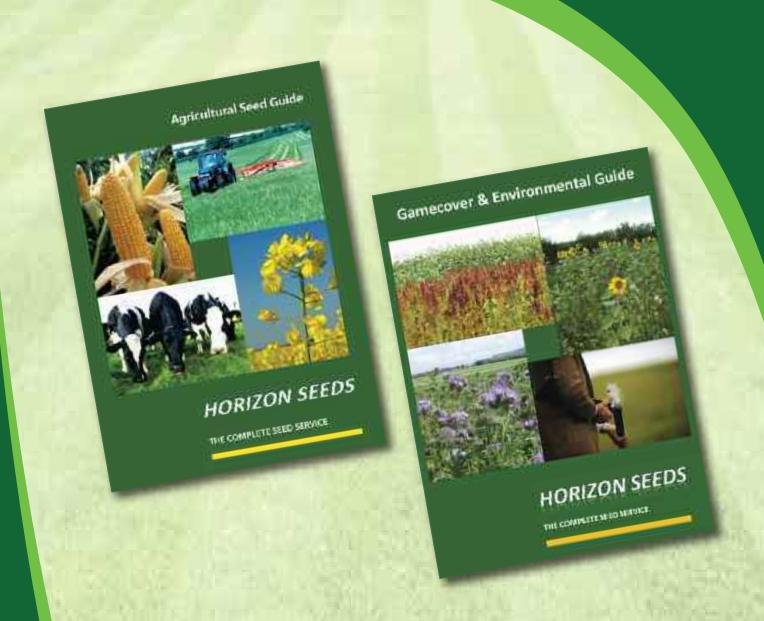
Traditional Hedgerow Mixture

We are often asked to put together a selection of native plants to create a traditional mixed native hedgerow and the following is what we suggest although you can always substitute or add another species of your choice. Quickthorn usually forms the basis of a typical field hedge with other shrubs adding colour and interest. Planting is recommended @ 6 plants per metre in a double staggered row although this can be changed to suit individual conditions.

Species mix: Quickthorn 70%, Blackthorn 10%, Field Maple 5%, Guelder Rose 5%, Dog Rose 3%, Hazel 3%, Holly 2%, Honeysuckle 2%



TREES & HEDGING



Would you like to see our other catalogues? Please call us or ask your local agent for a copy

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