

# Armstrong Richardson



## Quality Seed Catalogue

Edition 3

# Introduction

Armstrong Richardson are one of the largest suppliers of grass and game cover seeds in the North of England.

We stock a wide range of agricultural, amenity and game cover mixtures available from our store for collection throughout the season.

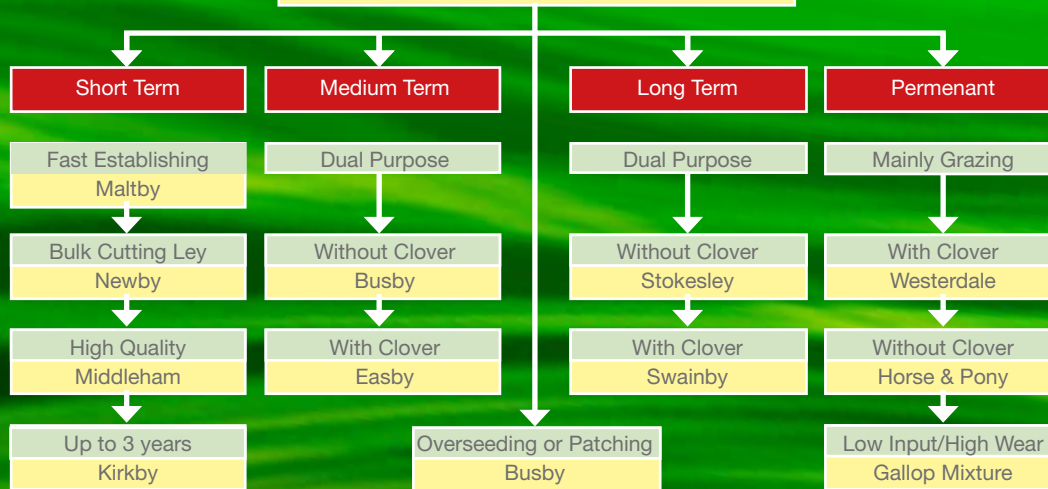
We mix, bag and distribute seed from our site in Stokesley throughout the whole of the UK.

We procure our seed from all the major seed houses such as British Seed Houses, Barenbrug, DLF Trifolium and we also buy direct from growers on the continent. All seed we supply is of HVS standard and meets the UK germination and purity standards.



# Mixture Selection

HOW LONG IS THE LEY INTENDED TO LAST?



## High Quality Grass Leys

### Maltby

5.0 kg	<b>Gemini</b>	Italian ryegrass (tet)	<i>14.0 kg per acre</i>
5.0 kg	<b>Meribel</b>	Italian ryegrass (dip)	
4.0 kg	<b>Lemnos</b>	Westerwold ryegrass	

**Designed for:** 1 year high yielding Italian ryegrass and Westerwold, for high yield silage cuts and after maize, first cut, very large bulk.

### Newby

3.5 kg	<b>Gemini</b>	Italian ryegrass (tet)	<i>14.0kg per acre</i>
3.5 kg	<b>Energyl</b>	Italian ryegrass (dip)	
3.5 kg	<b>Meribel</b>	Italian ryegrass (dip)	
3.5 kg	<b>Tetraflorum</b>	Italian ryegrass (tet)	

**Designed for:** 1 – 2 year high yielding Italian ryegrass blend, for high yield silage cuts in high input dairy production.

### Middleham

5.0 kg	<b>Gemini</b>	Italian ryegrass (tet)	<i>14.0 kg per acre</i>
5.0 kg	<b>Meribel</b>	Italian ryegrass (dip)	
4.0kg	<b>Delicial</b>	Hybrid ryegrass	

**Designed for:** 2 year high yielding, quality grass mixture. For short-term high input silage production. Contains hybrid ryegrass for extra quality and higher sugar silage.



## High Quality Grass Leys continued

### Kirkby

4.0 kg	<b>Acrobat</b>	Hybrid ryegrass	
4.0 kg	<b>Delicial</b>	Hybrid ryegrass	
3.0 kg	<b>Gemini</b>	Italian ryegrass (tet)	
3.0 kg	<b>Rusa</b>	Hybrid ryegrass	<i>14.0 kg per acre</i>

**Designed for:** 2 – 3 year silage ley, large concentration of hybrid ryegrass producing high quality silage, with exceptional yield.

### Busby

4.0 kg	<b>Acrobat</b>	Hybrid ryegrass	
4.0 kg	<b>Sterling</b>	Hybrid ryegrass	
3.0 kg	<b>Rusa</b>	Hybrid ryegrass	
3.0 kg	<b>Calibra</b>	Intermediate ryegrass (tet)	<i>14.0kg per acre</i>

**Designed for:** 3 – 4 year silage and grazing, contains hybrids for quality yield and intermediate ryegrass for grazing, high quality and production.





## High Quality Grass Leys continued

### Easby

3.0 kg	<b>Calibra</b>	Intermediate ryegrass (tet)	
3.0 kg	<b>Sponsor</b>	Late ryegrass (dip)	
3.0 kg	<b>Delphin</b>	Late ryegrass (tet)	
2.0 kg	<b>Sterling</b>	Hybrid ryegrass	
2.0 kg	<b>Premium</b>	Intermediate ryegrass (dip)	
0.3 kg	<b>Barblanca</b>	Large clover	
0.4 kg	<b>Huia</b>	Medium clover	
0.3 kg	<b>Crusader</b>	Small clover	<i>14.0 kg per acre</i>

**Designed for:** 4 – 5 Year plus, dual purpose, cut & graze. Suitable for dairy, beef and sheep. Very good all round ley, with clover.



### Stokesley

3.0 kg	Calibra	Intermediate ryegrass (tet)	
3.0 kg	Premium	Intermediate ryegrass (dip)	
2.0 kg	Pastoral	Late ryegrass (tet)	
2.0 kg	Delphin	Late ryegrass (tet)	
2.0 kg	Sponsor	Late ryegrass (dip)	
2.0 kg	Foxtrot	Late ryegrass (dip)	<i>14.0 kg per acre</i>

**Designed for:** 5 – 6 Year intensive grazing ley, producing dense, highly palatable sward, and suitable for quality late spring silage. Without clover.



## High Quality Grass Leys continued

### Swainby

3.0 kg	<b>Premium</b>	Intermediate ryegrass (dip)	
3.0 kg	<b>Pastoral</b>	Late ryegrass (tet)	
4.0 kg	<b>Sponsor</b>	Late ryegrass (dip)	
3.0 kg	<b>Foxtrot</b>	Late ryegrass (dip)	
0.3 kg	<b>Crusader</b>	Small clover	
0.4 kg	<b>Huia</b>	Medium clover	
0.3 kg	<b>Barblanca</b>	Large clover	<i>14.0 kg per acre</i>

**Designed for:** 6 Year, long term mainly grazing ley will produce silage and plenty of grazing. Contains white clover for palatability and protein.



### Westerdale

4.0 kg	<b>Delphin</b>	Late ryegrass (tet)	
4.0 kg	<b>Sponsor</b>	Late ryegrass (dip)	
2.0 kg	<b>Pastoral</b>	Late ryegrass (tet)	
2.0 kg	<b>Foxtrot</b>	Late ryegrass (dip)	
1.0 kg	<b>Erecta</b>	Timothy	
0.3 kg	<b>Barblanca</b>	Large clover	
0.4 kg	<b>Huia</b>	Medium clover	
0.3 kg	<b>Crusader</b>	Small clover	<i>14.0 kg per acre</i>

**Designed for:** 6 Year plus, long term mainly grazing ley will produce late silage, hay and plenty of grazing. Contains white clover and Timothy for extra palatability and quality hay.



## Organic Seed

### Organic Protein

3.0 kg	<b>Solid ORGANIC</b>	Hybrid ryegrass (tet)	
1.0kg	<b>Drumlin</b>	Hybrid ryegrass (tet)	
3.0kg	<b>Magician ORGANIC</b>	Int prg (tet)	
2.5kg	<b>Danergo ORGANIC</b>	Italian ryegrass (tet)	
.50kg	<b>Barblanca</b>	White Clover	
1.5kg	<b>Merviot</b>	Red Clover	
1.5kg	<b>Lemmon</b>	Red Clover	<i>13.0 kg per acre</i>

An excellent, high protein cutting ley for 3-4 years with the option to graze.



### Organic Combi

2.0kg	<b>Copeland ORGANIC</b>	Int prg (dip)	
3.4kg	<b>Dunlunce</b>	Int per ryegrass (tet)	
2.10kg	<b>Drumbo ORGANIC</b>	Late prg (dip)	
2.0kg	<b>Tyrella ORGANIC</b>	Late prg (dip)	
3.0kg	<b>Ideal ORGANIC</b>	Late prg (tet)	
1.5kg	<b>Ensign</b>	White Clover Blend	<i>14.0 kg per acre</i>

Long-term top-class cutting mixture which will also produce quality grazing.



## Organic Seed continued

### Organic 2 Year Red

1.2kg	<b>Novial</b>	Hybrid ryegrass (tet)	
2.5kg	<b>Calibra ORGANIC</b>	Int prg (tet)	
2.3kg	<b>Danergo ORGANIC</b>	Italian ryegrass (tet)	
3.0kg	<b>Meroa ORGANIC</b>	Italian ryegrass (tet)	
3.0kg	<b>Merviot</b>	Red Clover	<i>12.0 kg per acre</i>

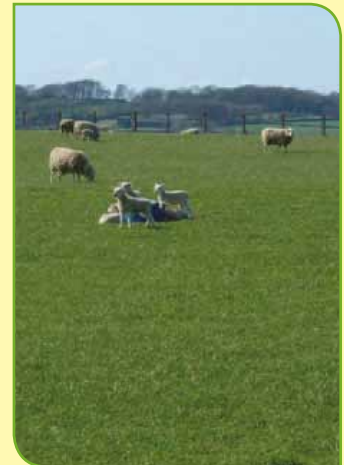
Designed for short-term cutting which provides home grown protein from the high red clover content.



### Organic Long Season

2.4 kg	<b>Moyola</b>	Early perennial ryegrass (dip)	
2.0kg	<b>Copeland ORGANIC</b>	Inter prg (dip)	
3.0kg	<b>Magician ORGANIC</b>	Inter prg (tet)	
2.0kg	<b>Drumbo ORGANIC</b>	Late prg (dip)	
2.10kg	<b>Tyrella ORGANIC</b>	Late prg (dip)	
1.0kg	<b>Motim</b>	Timothy	
1.5kg	<b>Ensign</b>	White Clover Blend	<i>14.0 kg per acre</i>

Multipurpose, long term ley, ideal for season long grazing and conservation.





# Horse Mixtures

## Horse Paddock

Horse Pasture is designed to produce a specialist horse sward that is nutritious, palatable, persistent and with the correct seasonal growth patterns to meet the needs of the grazing horse.

Traditional grass seed mixtures are meant for sheep and cattle and are less suitable for grazing horses. The bite of a horse differs very much from cows. Cows use their tongues for eating grass, but horses use their lips. Due to this, horses can graze a pasture much shorter than cattle, and can graze down below the growing point of the grass plant, damaging it. This causes slow and problematic re-growth of the sward and creates open and bare patches in the sward which fill up with problem weeds like ragwort and chickweed, and weed grasses like annual meadow grass, which is a low yielding un-palatable grass.

The lifespan of such a pasture will be shortened, Horse Pasture, resolves these problems and allows for healthy, sustainable paddocks.



2.5 kg	<b>Recolta</b>	Intermediate perennial ryegrass (dip)	
3.0kg	<b>Premium/Orantas</b>	Intermediate ryegrass (dip)	
2.5kg	<b>Sponsor</b>	Late perennial ryegrass (dip)	
0.5kg	<b>Brooklawn</b>	Smooth stalk meadow grass	
2.0kg	<b>Herald</b>	Creeping red fescue	
2.5kg	<b>Azimuth</b>	Dwarf perennial	
1.0 kg	<b>Erecta</b>	Timothy	<b>14.0kg per acre</b>

## Haylage Mixture 3 Years Plus

3.5kg	<b>Gemini</b>	Italian ryegrass (tet)	
3.5kg	<b>Meribel</b>	Italian ryegrass (dip)	
3.5kg	<b>Orion</b>	Intermediate ryegrass (tet)	
1.75kg	<b>Acrobat</b>	Hybrid ryegrass	
1.75kg	<b>Ligunda</b>	Hybrid ryegrass	<b>14kg per acre</b>

**Designed for:** A mixture to produce top quality haylage or hay from this carefully balanced selection of grasses. A tried and tested winning formula over many years.



## Horse Mixtures continued

### Gallop Mixture

50%	<b>Herald</b>	Creeping Red fescue	
25%	<b>Topgun</b>	Dwarf Perennial ryegrass	
25%	<b>Brooklawn</b>	Smooth Stalked meadow grass	<b>100%</b>

**Designed for:** A Mixture to produce dense turf for gallops, chicken house paddocks and over seeding race courses. Contains creeping red for stabilization, Smooth stalked for traction and Dwarf for wear and appearance. Sowing rate 50 - 100kg per acre, in 20kg packs.



## Yorkshire Green

Yorkshire green amenity grasses are custom mixtures, designed to a specific set of criteria. Specific criteria for specific purposes.

### Yorkshire Green

Such criteria include:

- **Low growth rate - to reduce cutting**
- **Ability for close mowing - for golf greens etc**
- **Colour and appearance**
- **Wear tolerance - hardwearing areas such as play lawns, football pitches etc**
- **Salt tolerance - for roadsides**
- **Low maintenance - for areas of poor access that require little cutting**

As well as our stocked mixtures, we are also able to supply mixtures to your own specification from our vast stock of straight varieties. We regularly put together mixtures for sports fields, property developments, road schemes, land reclamation and environmental sites.

### YG 1 Superior - Prize Lawn

55%	<b>Concerto</b>	Dwarf Perennial	<i>Sowing Rate: 30-50g/m<sup>2</sup></i>
20%	<b>Eurocrown</b>	Chewings Fescue	
20%	<b>Javelin</b>	Slender Creeping Red Fescue	
5%	<b>Highland</b>	Browntop Bent	

Top quality mixture for high wear areas, use on Tennis courts, Cricket outfields and quality lawns. High levels of dwarf ryegrass inclusion for greater wear abilities. Higher seed rate for most durability.



## Yorkshire Green continued

### YG 2 Recreation - Premier Sport

55%	<b>Verdi/Concerto</b>	Dwarf Perennial	<i>Sowing Rate: 30-50g/m<sup>2</sup></i>
20%	<b>Herald</b>	Strong Creeping Red Fescue	
20%	<b>Miracle</b>	Smooth Stalked Meadow Grass	
5%	<b>Highland</b>	Browntop Bent	

Mixture containing fescues and dwarf perennial ryegrass. Producing a rapidly growing, durable turf for use in recreation and lawns.

### YG 3 Utility Landscape

30%	<b>Esquire</b>	Dwarf Perennial	<i>Sowing Rate: 25-35g/m<sup>2</sup></i>
30%	<b>Azimuth</b>	Dwarf Perennial	
40%	<b>Herald</b>	Strong Creeping Red Fescue	

An economical ryegrass mixture for use in utility, sports, back lawns and landscaping. Using entirely amenity varieties this mix creates a quality economical turf.

### YG 4 Front Formal Lawn

25%	<b>Eurocrown</b>	Chewing Fescue	<i>Sowing Rate: 30-50g/m<sup>2</sup></i>
20%	<b>Javelin</b>	Slender Creeping Red Fescue	
50%	<b>Herald</b>	Strong Creeping Red Fescue	
5%	<b>Highland</b>	Browntop Bent	

Mixture containing fescues and dwarf perennial ryegrass. Producing a rapidly growing, durable turf for use in recreation and lawns.





## Yorkshire Green *continued*

### YG 5 Back Lawn

20%	<b>Herald</b>	Creeping Red Fescue	
.5%	<b>Miracle</b>	Smooth Stalked Meadow Grass	
.5%	<b>Highland</b>	Browntop Bent	
50%	<b>Verdi/Concerto</b>	Dwarf Perennial	
10%	<b>Javelin</b>	Slender	
10%	<b>Eurocrown</b>	Chewings	<i>Sowing Rate 30-50g/m<sup>2</sup></i>

Ryegrass mixture for hardwearing lawns.



### YG 6 Shady Low Maintenance

15%	<b>Eurograss</b>	Chewing Fescue	
10%	<b>Javelin</b>	Slender Creeping Red Fescue	
25%	<b>Herald</b>	Strong Creeping Red Fescue	
15%	<b>Miracle</b>	Smooth Stalked Meadow Grass	
25%	<b>Bornito</b>	Hard Fescue	
5%	<b>Crested Dogstail</b>		
5%	<b>Highland</b>	Browntop Bent	<i>Sowing Rate: 25-35g/m<sup>2</sup></i>

Ideal for large, shaded or inaccessible mowing areas. Low growth rate makes it suitable for mixing with wild flowers. Used for parkland areas.



## Yorkshire Green continued

### YG 7 Banks & Landscape

20%	<b>Eurocrown</b>	Chewing Fescue	<i>Sowing Rate: 35-50g/m<sup>2</sup></i>
75%	<b>Herald</b>	Strong Creeping Red Fescue	
5%	<b>Highland</b>	Browntop Bent	

Low maintenance non-ryegrass ley containing creeping red fescue to aid soil stabilisation. Suitable for banked areas, landscaping and front lawns.

### YG 8 Greens

80%	<b>Eurocrown</b>	Chewing Fescue	<i>Sowing Rate: 35g/m<sup>2</sup></i>
20%	<b>Highland</b>	Browntop Bent	

For use on golf greens and ornamental areas. Very high quality, fine turf with very low cutting height of 5mm.

### YG 9 Road Verge

28%	<b>Gator</b>	Dwarf Perennial	<i>Sowing Rate: 25g/m<sup>2</sup></i>
20%	<b>Herald</b>	Strong Creeping Red Fescue	
30%	<b>Bornito</b>	Hard Fescue	
10%	<b>Miracle</b>	Smooth Stalked Meadow Grass	
10%	<b>Highland</b>	Browntop Bent	
2%	<b>Jura</b>	White Clover	

For use on road verges, embankments and areas requiring high salt tolerance. Conforms to the department of transport's official mixture for roadside use.



## Yorkshire Green continued

### Amenity Fertiliser

Spring/Summer	10 - 2 - 5 + 2mg0 + 1 FE	20kg
Pre Seed	6 - 9 - 6	20kg
Spring/Summer	11 - 5- 5	20kg
Growmore	7 - 7 - 7	20kg
Ferrous Sulphate 20%		25kg
Turfrise	8 - 4 - 4 + 2.5 Mgo + 7 FE + 6 CaO + 2,4-D & Mecoprop P	10kg
Spring/Summer	10 - 2 - 5 + 2mg0 + 1 FE	10kg
Pre Seed	6 - 9 - 6	10kg
Spring/Summer	11 - 5- 5	10kg
Growmore	7 - 7 - 7	10kg
3 Month	12 - 3 - 8 + 2.8 Mg0 + 1.4 FE + 6Ca0 + 10SO3	10kg



## Forage Maize Hybrids

KWS established over 150 years operate in more than 65 countries with an annual turnover in excess of 1/2 billion Euros. Worldwide KWS sell 5.5 million packs of maize and 15% of their annual turnover is ploughed back into research and development. This makes KWS varieties the cutting edge of maize technology.

Maize is tested on nine locations throughout the UK. This ensures only the very best make the grade.

Variety	Maturity Class	Yield
Kaspian	13	95%
Kromwell	9	105%
Severus	9	108%
MAS 09P (Non KWS)	10	102%
Kougar	10	107%
Podium (Grain Maize)	8	107%
Katy	7	105%
MAS 09A (Non KWS)	9/10	112%

112% includes Gaucho wireworm same as Baytan on wheat.



## Chicory

Chicory is a perennial herb, which has proven to be an excellent source of high quality feed for finishing stock. Experience with Commander Chicory has demonstrated that it has potential for high levels of animal production over spring and summer.

Chicory is a high protein forage, giving protein contents of between 10% and 32% depending on the plant's maturity, with the digestibility of the leaves between 90% and 95%, but if the plant is allowed to bolt, the flower stems are considerably less digestible. Chicory forage is also a good source of minerals, being rich in potassium, calcium, magnesium, sulphur, zinc, and sodium.

Research by SAC has found that 'Chicory could be considered a useful alternative to drenching with anthelmintic as it improves lamb performance'. It is also a deep-rooted herb, with excellent tolerance of drought.



## Fodder Root & Crops

The value of Root and Fodder crops as a way of both varying animal feed and maximising home forage production cannot be over emphasised. This information allows comparison between the major forage species, in terms of sowing and harvest dates and yield expectations, to allow you to match the species to your requirements.

### Fodder & Root

This crop can give massive fresh yields of highly palatable, high energy feed which can be fed to most types of livestock. Choice of variety will depend on harvesting machinery and utilization.

### Fodder Beet

<b>Jamon</b>	High yielding, orange root, average dry matter.
<b>Blaze</b>	High yielding, red root, above average dry matter.
<b>Feldherr.</b>	Low dry matter roots. Ideal for dairy cows.
<b>Kyros.</b>	High yield variety. High energy feed.
<b>Robbos.</b>	Yellow root with high dry matter yield.
<b>Fortimo.</b>	High yield medium dry matter. Red roots, tend to be uniform size.
<b>Magnum.</b>	High dry matter good variety for combined silage.

### Kale

A well proven, highly adaptable, fodder crop which consistently provides very high yields of succulent green fodder. Choice of variety will depend on time of utilization.

<b>Proteor</b>	Is a medium height kale, which is exceptionally leafy and has a high yield potential. Due to its superior leaf to stem ratio, Proteor has high utilisation and good animal productivity. Exceptional for Game cover.
<b>Astera</b>	Is a medium height kale, marrowstem. Ideal for both cattle and sheep grazing. Winter hardy.
<b>Maris Kestrel</b>	Is a leafy hybrid variety with short stems which was bred for low stem fibre content and high digestibility, ideal for fattening lambs. Kestrel has a very flexible feeding pattern from August through to April.



## Fodder Root & Crops *continued*

### Swedes

Traditionally widely grown in the cool moist areas of the North and West as a hardy, high energy, persistent feed. Choice of variety will depend on time of utilization.

**Airlie** Ideal for early to intermediate use, produces high fresh yields of uniform globe shaped roots with good colour. Airlie has good general disease resistance.

**Kenmore** A bronze skinned, white fleshed variety with very high fresh yields. It is an early maturing variety with medium dry matter content and very good winter hardiness, giving Kenmore a wide window of use.

### Main Crop

A faster growing though less persistent alternative to Swedes, Main Crop Turnips offer higher yields and better winter hardiness than stubble turnips.

**Green Globe** A traditional white fleshed variety best used before Christmas. Green Globe will produce globe shaped roots with good anchorage and is suitable for grazing by all types of livestock.

**Green Top Scotch** Traditional variety that is more winter hardy than Green Globe and is suitable for use through to February. It is a slower maturing variety and needs 20 weeks to reach optimum yield.

### Stubble Turnips

**BARKANT** Is a high yielding, versatile, highly nutritious, traditional stubble turnip with early maturity (60-90 days). It is characterised by a much higher proportion of leaf compared to other turnips, and its tankard shaped bulb, two thirds of which grows above ground, enhances utilisation. Barkant can be used for summer forage, and can also be used to provide autumn/early winter feed.

**SAMSON** Can produce huge tankard shaped purple roots which are very palatable to both sheep and cattle. Samson in trails, have shown to be preferentially grazed which can lead to higher intake and live weight gains.

**VOLLEND A** Large palatable bulb, club root resistant excellent for grazing.



## Fodder Root & Crops continued

### Forage Rape

A widely used, easy to grow catch crop, providing excellent autumn/winter keep.

**Hobson** A very leafy, high yielding variety with good digestibility, Hobson has good resistance to mildew, which can often reduce, yield and affect palatability.

**Sparta** Clubroot resistant a hardier and taller variety. Fast establishing. Interval. Extended grazing period. Exceptional yield potential. Disease resistant. Quick to establish

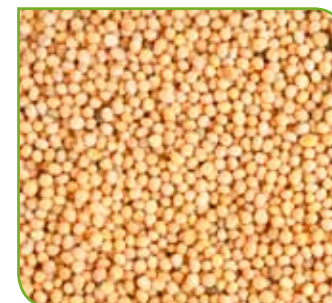
### Agglethorpe Mix

1.0 kg	<b>Barkant</b>	Stubble Turnip
0.5 Kg	<b>Hobson</b>	Forage Rape
.001Kg	<b>Proteor</b>	Kale

Fast growing, grazing after 12 weeks, will also last well into winter months.

### Mustard

Mustard is a fast establishing, drought tolerant cover crop which will help suppress weeds and can then be ploughed as green manure.



## Game Cover Crops

Shooting and leisure activities are an increasingly important part of the rural environment. Our game mixtures offer a simple, but highly effective range that meet the needs of most shoots.

### AR Quality Game Mixture

- A traditional mixture of species specially selected for their feed and cover qualities
- Designed for a full season of cover from September to February
- Will provide effective holding, feed and cover for all game birds
- Due to the variance in seed size, broadcast to achieve optimum establishment

2kg **Sunflowers**  
.5kg **Texel Greens**  
2kg **Red Millet**  
.5kg **Quinoa**  
.25kg **Phacelia**  
.25kg **Mustard**  
2kg **Linseed**  
.7kg **Forage Rape**  
1.5kg **Buckwheat**  
.25kg **Kale**



### AR Game Maize

- Later maturity
- Strong stems that give excellent resistance to lodging
- Highly disease resistant
- Unfolded leaves to provide a good canopy
- Stay green characteristics with excellent early vigour
- Consistent in all conditions
- The seed is treated with Mesuroil & Thiamam and packed in acre packs

### AR Kale & Quinoa

- Quinoa produces seed heads at the top of the stem, which shed steadily throughout the game season
- Quinoa seed is a highly palatable source of high protein feed
- Kale gives a winter hardy canopy, much loved by pheasants
- The kale is treated with Cruiser which provides protection from flea beetle attack

50% **Quinoa blend**  
50% **Treated Kale**  
100%

Pack size: 1 acre (3kg)





## Game Cover Crops continued

### AR Last Chance

- Very rapid establishment and quick growth for late sowing or repairing cover
- Will grow up to 1m to provide winter cover
- Easy to establish, broadcast onto affected areas or cereal stubbles

30% **Forage Rape**  
50% **Mustard**  
20% **Stubble Turnip**  
100%  
Pack size: 1 acre (5kg)

### AR Attraction

- A mixture of species that will hold and feed birds throughout the season
- Provides an attractive addition, with prolific flowering species, that shed throughout the season
- If you want to keep birds together for that special drive, then sow an area of AR Attraction

3.5kg **Gold of Pleasure**  
82% **Linseed**  
11% **Forage Rape**  
3.5% **Borage**  
100%  
Pack size: 1 acre (14kg)



**In addition we would be delighted to supply mixtures to your specifications**



**Wild flowers available upon request**



# Stewardship

Countryside stewardship is a scheme to improve, sustain and create diversity of wild life. The objectives are to improve and extend wildlife habitats, conserve important and historic sites, restore neglected land and create habitats and landscapes.

With these objectives in mind we have created a few mixtures that we are commonly asked for:

## WM1 Wild Bird 2 Year Mixture

14kg	<b>Triticale</b>	<i>20Kg/Acre</i>
2.0kg	<b>Kale Natural</b>	
4kg	<b>Quinoa</b>	



## WM2 One Year Bird Feed Mixture

1kg	<b>Kale Natural</b>	<i>10kg/Acre</i>
3kg	<b>Linseed Chinook</b>	
2.5kg	<b>Millet</b>	
.5kg	<b>Mustard</b>	
.5kg	<b>Fodder Raddish</b>	
2.5kg	<b>Sunflowers VNS</b>	



## Stewardship continued

### Field Margin Mixture

This mixture is used for field boundaries, margins and rough areas. Contains non-competitive grasses and deep rooted cultivars such as Timothy and Cocksfoot. Should last for five to ten years. Needs topping in the first year then once every three years thereafter. Will create very dense and tussocky sward good for beetles and invertebrates.

2-4-6m	<b>GRASS MARGIN</b>
2kg	<b>Meadow Fescue</b>
2.5kg	<b>Creeping Red Fescue</b>
1.0kg	<b>Cocksfoot</b>
2.0kg	<b>Smooth Stalked Meadowgrass</b>
.50kg	<b>Highland Browntop Bent</b>
2.0kg	<b>Timothy</b>

*10kg/Acre*



### Grass & Pollen

1kg	<b>Meadow Fescue</b>
.5kg	<b>Smooth Stalked Meadowgrass</b>
1kg	<b>Chewings fescue</b>
.5kg	<b>Crested Dogstail</b>
1kg	<b>Sheeps/Hard Fescue</b>
.15Kg	<b>Red Clover Late</b>
.3kg	<b>Birdsfoot Trefoil</b>
.4kg	<b>Sainfoin</b>
.15kg	<b>Vetch</b>

*5Kg/Acre*



### Pollen Only Grass Free

1kg	<b>Sainfoin</b>
.75kg	<b>Alsike</b>
.75kg	<b>Birdsfoot Trefoil</b>
2.5Kg	<b>Red Clover</b>

*5Kg/Acre*

## Stewardship continued

### Bee Pollen Special

2kg  
1.1kg  
.5kg  
.4kg  
1kg

**Sainfoin**  
**Alsike**  
**Birdsfoot Trefoil**  
**Phacelia**  
**Red Clover**

*5kg/Acre*





## Game Cover

To improve a return on a shoot, specialist game cover is one of the most cost effective methods. Bird habitats can vary from entirely feed to totally cover, from single year crops to semi permanent grass based covers.

Among the straights we have to offer are:

### CHICORY

3-4 year crop with excellent ground cover, great for rearing mixtures. Seeds in the second year, growing tall stalks with blue flowers.

### TRITCALE

Good source of feed in mixture, also pretty rabbit hardy. Provides early season feed but won't last till Christmas.

### BORAGE

Attracts bees, produces seed that sheds through the season. Not frost hardy.

### FODDER RADISH

Very fast growing catch crop, useful green manure. Much underrated crop, provides cover in eight weeks. Not winter hardy.

### FORAGE RAPE

Fast growing late game cover, fully established 7-9 weeks. Not very winter hardy, breaks down once it gets colder. Grows on all soil types, up to 1 metre in height.

### MUSTARD

Versatile, easily established, relatively pest resistant. Strong acquired taste keeps rabbits and pigeons from attacking this crop. Drilled or broadcast, in any conditions.

### KALE

The classic game cover crop, with better varieties and seed treatments available every year. Kale is a very universal cover crop. Cruiser Systemic seed treatment is available to protect against flea beetle.



## Game Cover continued

### **KALE/RAPE HYBRID**

Rapid establishment. Large yielding leafy crop. Can be utilised in 10-12 weeks, but not as winter hardy as kale.

### **PHACELIA**

The most buzzing cover crop produces purple flower and pollen to attract insects. Phacelia is an annual but due to high seed drop it leaves sufficient seed to re grow year on year. Best sown as a mixture, can aid flea beetle control in kales.

### **BUCKWHEAT**

One for the fastest growing cover crops, produces seed in 10 weeks, competes well with weeds. Use in mixtures so it doesn't make game cover wet and heavy.

### **REED CANARY GRASS**

Hardy perennial, excellent dense sward, warm cover will last for years. But slow to establish in the first year.

### **LINSEED**

Produces excellent high quality feed, good cover for partridge

### **SORGHUM**

Now well established in the UK, we have learned a lot about this interesting crop. Slow establishing, catching up in the summer, producing cover and feed. With jumbo, regular and dwarf varieties available, sorghum is a very useful crop for cover & feed.

### **MILLET**

An Ancient crop used for food, now the keeper's friend, as it's so versatile. Millet produces effective cover, high oil, and high energy feed. Early Red and late White varieties available, but better blended together.

### **QUINOA**

Feed and seed crop, producing up to 1 tonne per acre of seed. Loved by pheasants, partridges and farmland birds. Best sown in a mixture or in strips with cover crops such as



## Game Cover continued

### SUNFLOWER

Very versatile, highly vigorous and will grow in most conditions and soil types. Produces excellent feed and lots of colour. Works best in a mixture because they don't provide a lot of ground cover.

### SWEET CLOVER

Nectar producing biennial clover. Thrives on neutral and chalk soils, also fixes free nitrogen and requires only a shallow seedbed. Has uses in most game cover mixtures. Best sown with kale, grasses and millet.

### LUCERNE

Fixes lots of nitrogen for its companion crops, not very competitive with weeds. Little slow to establish but once established would provide cover for up to 5 years.

### SAINFOIN

Leguminous crops ideal in a mixture, and good for grazing with livestock. Lasts 3-4 years once established. Produces pink flowers that attract insects.

### BIRDS FOOT TREFOIL

Is an herbaceous perennial legume, produces a cluster of yellow flowers. Birds foot trefoil can control erosion, and withstand semi shade sites. Upland game birds, ducks, rabbits, deer and other animals eat its foliage and seeds.

### GAME MAIZE

The mainstay of early-drilled game covers. Season long cover and feed.

### GOLD OF PLEASURE

Annual or over wintering herb, with woody-branched stems. Can be sown as a straight, it has highly nutritious seed that lasts through into January. Grows to about 75cm in height. Not a very good windbreak.

### TEXEL GREENS

This plant is a member of the rape family and looks similar initially, but when left to nature they make a good game cover crop. They are very quick to produce seed and can mature to full plant by the end of October even when planted in July. No other brassica crop grows as fast, and no other crop provides a micro climate of insect life for game birds in such a short time period.



## Sowing and Production Guide

Species	Sowing rate per hectare	Sowing Date	Usage Date
<b>Agricultural Crops</b>			
Fodder Beet	100,000 seeds/h	March-April	Oct/Nov
Kale	1.85kg/h precision drill	April-July	Nov/March
	2.5 kg/h drilled		
	7.5 kg/h broadcast		
Swedes	0.7 kg/h precision drill	April/June	Nov/March
	2.5 kg/h drilled		
	7.5 kg/h broadcast		
Turnips	3-4 kg/h drilled	May/July	Sept/Jan
	5.0 kg/h broadcast		
Stubble	5.0 kg/h drilled	April/June	Summer use
Turnips	8.0 kg/h broadcast	June/Sept	Oct/Feb
Forage Rape	6.0 kg/h drilled	May/Sept	Sept/Feb
	10.0 kg/h broadcast		
Agglethorpe	3.5 kg/h	June/Sept	Oct/Feb





## Sowing and Production Guide continued

Species	Sowing rate per hectare	Sowing Date	Usage Date
<b>Game Crops</b>			
Game Mix	25.0 kg/h	April/June	Sept/March
Game Maize	100,000 seeds/h	April/June	Sept/Feb
Kale/Quinoa	7.5 kg/h	April/May	Sept/Dec
Catch Crop	12.5 kg/h	May/Sept	Sept/March
Attraction	35 kg/h	April/June	Aug/Jan
Mustard	15kg/h	May/Aug	Aug/Sept
Sunflower	15-20 kg/h	April/May	July/Nov
Gold of Pleasure	12.5 kg/h	April/May	Sept/Nov
Millet	15 kg/h	April/May	Sept/Dec
Buckwheat	50 kg/h	April/May	June/Sept
Phacelia	12.5 kg/h	April/June	Sept/Nov
Chicory	2.5kg/h	April/Aug	Year 2
Borage	20.0 kg/h	March/June	July/Nov
Field/Beans	180 kg/h	Nov/March	May/Dec
Canary Grass Holdfast	6.25kg/h	April/May	Sept/Feb
Reed Canary Grass	6.25 kg/h	April/May	Sept/Feb
Reed Millet	15 kg/h	April/May	Sept/Dec
Linseed	75 kg/h	April/May	Sept/Dec
Sweet clover	12.5 kg/h	April/Aug	2 years
Giant Sorghum	30 kg/h	April/May	Sept/March
Dwarf Sorghum	20kg/h	April/May	Sept/March



## Other Product Profile

### Compound & Blended Feeds

We offer a comprehensive range of branded feeds for dairy, beef, calves, ewes, lambs and pigs from local and national compounders.

We have our own blending facility making blends for both cattle and sheep, for own- collect or delivered.

All our feeds are available in bags or bulk, blown or tipped.



### Straight Feeds

We are suppliers of bulk straights such as Sugarbeet Pellets and Shreds, Hipro-Soya, Rape Meal, Maize Distillers, Wheatfeed, Soya Hulls, Malt Residuals and Citrus. **We are also suppliers of Distillers from the Ensus Ethanol Plant at Teesside.**

### Moist Feeds

Bulk Brewers Grains and other moist blends. Whole Sugar Beet and Fodder Beet bought and sold.

Stock Feed Potatoes, Carrots and Parsnips



### Feed Suppliments

Bulk liquid feeds and molasses blends from 5 tonnes to 26 tonne loads. Tanks available on interest free credit.

Mini bulk liquids in 1000 litre lots. Full range of mineral licks, feed buckets. Full range of bagged Minerals.

Caustic Soda, Sodium Bicarbonate, Rock Salt, Feed Grade Urea



### Grain Trading

We trade Wheat, Barley, Oats, Oilseed Rape, Peas and Beans.

Farm to Farm and to feed mills.

## Product Profile

### Fertilizers

British and Imported Nitrogen. Granular Urea, Koch Advanced Nitrogen and Ammonium Sulphate NPK, compounds and blends with or without Sulphur. Potash, Phosphorus and DAP.

### Cereal and OSR Seed

We supply a wide selection of Cereal Seeds, Oilseed Rape, Pea and Bean seeds as recommended by NIAB.

### Forage Additives

We supply the full tried and tested Ecosyl range of forage additives. We also sell Propcorn for the treatment of moist cereals.

### Traceability

We deal with reputable suppliers with full audit trails as required by the food chain. The following are our accreditations:

UFAS 460  
ISCC  
FIAS 44294  
ACCS 40694



**Mixtures/varieties may change without prior notice on all mixtures - but will be printed on the official DEFRA label**

# Armstrong Richardson

## Armstrong Richardson Head Office

Mount Pleasant Way, Stokesley Business Park, Stokesley, North Yorkshire. TS9 5NZ • **Tel: 01642 718280** • Fax: 01642 710993

Nigel Jones	Joint Managing Director	07711 736 155	NEMJ@ArmstrongRichardson.co.uk
Russell Sawer	Seed Manager	07968 967 362	JRS@ArmstrongRichardson.co.uk
Bede Wilkinson	Feed & Straights Manager	07831 388 116	BAW@ArmstrongRichardson.co.uk
Stuart Robinson	Grain Manager	0775 000 500	SAR@ArmstrongRichardson.co.uk
Martin Harland	Sales & Fertiliser Manager	07711 428 281	MJH@ArmstrongRichardson.co.uk
Matthew Wood	Amenity Seed Manager	07585 967 779	MW@ArmstrongRichardson.co.uk
Peter Pybus	Grass Seed Specialist	07715 002 729	
Colin Johnson	Grass Seed Specialist	07776 130 455	ColinBeany@AOL.com
Tony Briggs	Sales	07900 435 799	

**MILLBRY HILL - Retail Stores** – Full range of all horse and pet feeds, Tack, Stable Equipment, Country Clothing including Riding and Shooting and Small Holder Range.

**Stokesley** – The Mill, Levenside, Stokesley, TS9 5BH – (01642) 713 171

**Richmond** – Broken Brea Farm, Easby, Brompton-on-Swale, Richmond, North Yorkshire, DL10 7EY – (01748) 826 195

**Whitby** – Guisborough Road, Selly Hill, Whitby, North Yorkshire, YO21 1SF – (01947) 820 525

**Whitehaven** – 3 Preston Street, Whitehaven, Cumbria. CA28 7HU - (01946) 690114

**AR Entertainments** – Corporate, Adult and Children's Entertainment – View our web page or call for your Free brochure. [www.arentertainments.co.uk](http://www.arentertainments.co.uk) - (01642) 712 990

**C&C Horse Transport** – [www.CandChorsetransport.com](http://www.CandChorsetransport.com) - Tele: (01642) 718294. Fax No. (01642) 710993

