TDENNE Sons FIRST CROPS SEEDS GRASS SEED CATALOGUE



INTRODUCTION

Our new grass seed catalogue offers you the opportunity to view our entire range of mixtures as well as understand the concept behind their design.

The philosophy has been to select varieties offering good quality and strong performance and combine these with our experience, and that of our customers, to produce a range of simple yet effective mixtures to suit a wide range of situations.

Our principles in the design of these mixtures have been:

- Select varieties with proven performance
- Design mixtures with a specific goal in mind
- Blend varieties and species to give ease of future management
- Use in-field experiences to improve performance.
- · Listen to the requirements of our customers in order to refine mixture design.

We have arranged this brochure in an easy-to-follow layout, starting with the cutting mixtures and moving towards grazing and amenity. Added to this is the mixtures selection guide located on page 12-13 which gives a shortcut solution to finding the mixture for you.

In addition to the published mixtures we also offer an entirely bespoke mixing service. This allows us to vary an existing ley to suit individual customers' requirements, or start from scratch and design an entirely unique mixture to suit your needs, whether this be conventional or organic.

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(D)
(SL)
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The **Supercut Mixtures** are a range of high-quality high-yielding grass leys designed to maximise the potential for grass silage.

Where possible we have incorporated the festulolium species into the mixtures as the different varieties bring significant improvements in terms of yield, quality, and persistence. In addition, we have found these species to be particularly useful on stress-prone sites and in arable rotations as they have fewer herbicide resistance issues than Italian Ryegrasses.

Supercut

Designed as a 1-2 year ley which provides a high yield of good quality grass silage.

- Will respond to high fertiliser input
- High output
- Excellent regrowth after cutting
- Hybrid will improve 2nd year performance over Italian only mixtures.

Supercut (1-2 years)

34%	Italian Ryegrass	(D)
34%	Italian Ryegrass	(T)
32%	Hybrid Ryegrass	(T)

Recommended sowing rate 14-16 kg/acre

Supercut Plus

A 2-3 year ley designed as a high output cutting ley.

- Selection of hybrids and festuloliums to enhance persistence and yield
- Will respond to high fertiliser input
- High quality forage
- Excellent re-growth after cutting.

Supercut Plus (2-3 years)

17%	Italian Type Festulolium	
18%	Italian Type Festulolium	
18%	Italian Ryegrass	(D)
17%	Italian Ryegrass	(T)
30%	Hybrid Ryegrass	(T)
Reco	nmended sowing rate 14-16	kg/acre



Supercut Extra

A purely festulolium 2-3-year ley. Designed as a highly productive, high quality ley even on less favourable sites. This mixture will give consistent performance in variable conditions too.

- 100% festulolium good quality and high yield
- More persistent than Italian
 ryegrasses
- Less risk of herbicide resistant grass species in arable rotations
- Will cope on more stress/drought prone sites.

Supercut Extra (2-3 years)

25% Italian Type Festulolium25% Italian Type Festulolium50% Hybrid Type Festulolim

Recommended sowing rate 14-16 kg/acre

Supercut Long

Supercut Long is a 3-4 year cutting ley.

- Hybrids/ festuloliums selected for yield, quality and longevity
- High quality and yielding tetraploid perennial inclusion
- Good response to nitrogen
- Suitable for multiple cuts through the season
- Can be used as an overseeding mixture at a lower rate

Supercut Long (3-4 years)

40% Hybrid Ryegrass40% Hybrid Type Festulolim20% Intermed. Perennial Ryegrass (T)

Recommended sowing rate 14-16 kg/acre



Supercut Plus Protein

A 1-2 year cutting ley containing a high protein content from both quality grasses and red clover.

- High-yielding grasses that offer good silage quality
- Contains festulolium species to cope with more stress-prone sites
- Early/medium flowering red clover ensures that the grass species are not outcompeted in year 2.

Supercut Plus Protein (1-2 years)

25%	Italian Type Festulolium	
40%	Hybrid Ryegrass	
15%	Italian Ryegrass	(T)
20%	Red Clover	

Recommended sowing rate 14-16 kg/acre

Supercut Italian

A 2 year high-yielding ley, with rapid establishment for early use. Large first cut potential.

- Can be sown spring or autumn
- Red clover can be added for extra protein.

Supercut Plus Italian (1-2 years)

50%	Italian Ryegrass
50%	Italian Ryegrass

Recommended sowing rate 14-16 kg/acre

Westerwold Ryegrass

A short term grass used to produce large amounts of forage. Very vigorous and fast to establish.

Westerwold Ryegrass (1-2 years)

100% Westerwold Ryegrass

Recommended sowing rate 14-16 kg/acre

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Haylage

A medium-term mixture to produce good yields of quality grass, specifically designed for the professional haylage producer.

- Good response to Nitrogen
- Suitable for multiple cuts through the season
- Can be used as an overseeding mixture at 9kg/acre.

Haylage Extra

Haylage Extra is designed as a top quality 3-4 year haylage ley to maximise top-end quality for equine use.

- Use of 4 tetraploids ensures an even wilt which is key to producing top quality haylage
- Will produce high yields and quality from varieties used
- Specifically designed for professional haylage makers.

Haylage (2-3 years)

25%	Hybrid Ryegrass (T)	
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- 38% Intermed. Perennial Ryegrass (D)
- 37% Late Perennial Ryegrass (D)

Recommended sowing rate 14 kg/acre

Haylage Extra (3-4 years)

25%	Intermed. Perennial Ryegrass	(T)
25%	Intermed. Perennial Ryegrass	(T)
25%	Late Perennial Ryegrass	(T)
25%	Late Perennial Ryegrass	(T)

Recommended sowing rate 14-16 kg/acre

Haymaker

A traditional general purpose ley producing good quality hay that is not too fine or too coarse. Produces good yields and will "make" easily due to the types of grasses included. It is also suited to over winter grazing.

Haymaker (3-5 years)

15%	Early Perennial Ryegrass	(D)
15%	Timothy	
35%	Intermed. Perennial Ryegrass	(D)
35%	Late Perennial Ryegrass	(D)
Doc	ommonded cowing rate 1 4 kg/ac	ro

Recommended sowing rate 14 kg/acre

Haymaker Pro

Haymaker Pro is designed to produce top quality soft hay which is targeted at the equine and small pet market.

- It will also thrive on more stressprone sites with the inclusion of meadow fescue
- Can also be used for over winter grazing.

Haymaker Pro (3-5 years)

30%	Meadow Fescue	
20%	Timothy	
25%	Intermed. Perennial Ryegrass	(D)
25%	Late Perennial Ryegrass	(D)
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Recommended sowing rate 14 kg/acre

GRAZING & DUAL PURPOSE MIXTURES

In addition to our **Grazer** ley mixture we have a selection of **Dual Purpose Mixtures** to fit a range of scenarios. We have focused on combining cutting yields and quality, with grazing quality.

Grazer

Specifically designed for grazing-based systems usually for a 5 year period.

- Can support grazing-based dairy systems
- Contains specific varieties that offer high levels of highly digestible grass
- Good conversion levels for milk and meat production
- Suitable for cattle and sheep.

Cut & Graze

Cut & Graze is designed as a mediumterm (3-5 year) dual purpose cutting and grazing ley.

- Produces good-yielding silage
- Can take multiple cuts
- Contains good grazing quality perennials and hybrids
- Suited for grazing sheep and cattle
- A 'no clover' option is also available.

Grazer (5+ years)

- 10% Early Perennial Ryegrass (D)
- 15% Late Perennial Ryegrass (T)
- 15% Late Perennial Ryegrass (D)
- 20% Intermed. Perennial Ryegrass (D)
- 15% Intermed. Perennial Ryegrass (D)
- 20% Late Perennial Ryegrass (T)
- 5% White Clover Blend

Recommended sowing rate 14 kg/acre

Cut & Graze (3-5 years)

- 30% Intermed. Perennial Ryegrass (T)
- 30% Intermed. Perennial Ryegrass (T)
- 21% Late Perennial Ryegrass (D)
- 15% Hybrid Ryegrass (T)
- 4% White Clover Blend

Recommended sowing rate 13.5 kg/acre

GRAZING & DUAL PURPOSE MIXTURES

Fleximix

Fleximix is similar to the Cut and Graze ley (3-5 year), however, it is designed more for cutting with the addition of the festulolium and late tetraploid perennial. This will improve both the quality and yield of the cuts taken, whilst maintaining good aftermath grazing.

- High quality silage
- Can take multiple cuts
- Contains good grazing quality perennials and hybrids
- Suitable for sheep and cattle
- Can cope with more stress-prone sites
- A 'no clover' option is also available.

Fleximix (3-5 years)

30%	Hybrid Ryegrass	(T)
20%	Hybrid Type Festulolium	
10%	Intermed. Perennial Ryegrass	(D)
10%	Intermed. Perennial Ryegrass	(T)
10%	Late Perennial Ryegrass	(D)
10%	Late Perennial Ryegrass	(T)
5%	Hybrid Ryegrass	(T)
5%	White Clover Blend	

Recommended sowing rate 14 kg/acre

Permanent Pasture

Designed as a long-term, permanent ley with a bias more toward grazing, yet offering a modest silage/ haylage (coarse) or even hay cut.

- Hard wearing and long term
- Can be grazed all year
- Can be grazed "down tight" by sheep
- Varieties offer good grazing quality for cattle and sheep
- A 'no clover' option is also available.

Permanent Pasture (5+ years)

- 16% Intermed. Perennial Ryegrass (T)
- 16% Intermed. Perennial Ryegrass (D)
- 16% Intermed. Perennial Ryegrass (D)
- 14% Late Perennial Ryegrass (T)
- 11% Late. Perennial Ryegrass (D)
- 10% Late. Perennial Ryegrass (D)
- 10% Timothy
- 7% White Clover Blend

Recommended sowing rate 14 kg/acre

SPECIALISED MIXTURES

We offer two grades of pony paddock mixture, the standard **Horse & Pony** and the **Horse & Pony Plus**.

The addition of the smooth stalk meadow grass is for use on more stress-prone sites to ensure that there is grazing all year round. Both mixes are designed specifically for horse and pony grazing and do not contain any high-sugar grasses which can increase the risk of laminitis. If left, a modest hay cut could also be taken.

Horse & Pony

Horse & Pony (5+ years)

- 31% Intermed. Perennial Ryegrass (D)23% Intermed. Perennial Ryegrass (D)
- 23% Late Perennial Ryegrass (D)
- 15% Creeping Red Fescue
- 8% Timothy

Recommended sowing rate 13 kg/acre

Horse & Pony Plus

Horse & Pony Plus (5+ years)

- 18% Intermed. Perennial Ryegrass (D)
- 18% Intermed. Perennial Ryegrass (D)
- 32% Late Perennial Ryegrass (D)
- 10% Timothy
- 15% Creeping Red Fescue
- 7% Smooth Stalked Meadow Grass

Recommended sowing rate 14 kg/acre

Horse & Pony Rye Free

A persistent diverse mixture with the added benefit of lower sugar and protein content. The mix will take longer to establish but is a good alternative to Ryegrass based mixtures.

Horse & Pony Rye Free (5+ years)

35%	Meadow Fescue
30%	Strong Creeping Red Fescue
15%	Timothy
7%	Smooth Stalk Meadow Grass
7%	Tall Fescue
6%	Cocksfoot
Rec	ommended sowing rate 13 kg/acre

SPECIALISED MIXTURES

Equine Gallops Mix

Gallops mixture is an ideal mix for an area which is used for exercising or working your horse. This mix produces a dense, springy sward which enables frequent use of the area with minimal damage.

Equine Gallops Mix (5+ years)

65% Amenity Perennial Ryegrass20% Creeping Red Fescue15% Smooth Stalked Meadow Grass

Recommended sowing rate 20 kg/acre

Traditional Meadow (Ryegrass free)

Traditional meadow, is a mixture of more traditional, less aggressive grass species. This mixture has a range of uses from environmental to extensive grazing.

- Predominantly a grazing ley, can be used for a hay cut
- Well suited for extensive grazing, particularly of native cattle breeds
- Will tolerate adverse conditions; low pH, drought, wet etc
- Low fertiliser requirement.

Traditional Meadow (5+ years)

40% Meadow Fescue
25% Timothy
10% Rough Stalk Meadow Grass
10% Smooth Stalk Meadow Grass
10% Creeping Red Fescue
5% Crested Dogstail

Recommended sowing rate 14 kg/acre

MIXTUR



E GUIDE



OVERSEEDING GRASSLAND

Overseeding has been used as a way of rejuvenating grassland for many years. When managed properly, overseeding can be an effective way of improving production. However, if done 'on the cheap' while not dealing with the fundamental reasons for reduced production, the benefits can be minimal and short lived.

Grassland will lose productivity for some or all of the following reasons:

- Established grass varieties have reached the end of their productive life
 - productive life drainage and compaction fweed grasses • Poor P & K indices and pH scores
- Increased dominance of weed grasses and broadleaved weeds
- Inappropriate management of grass e.g. under/over stocking.

Poor soil structure due to bad

To make sure you maximise the potential of overseeding, use the following tips:

- Cut or graze the grass as tightly as possible
- Spray out in advance broadleaved weeds
- Ensure P & K indices are at least 2 and consider a Phosphate starter fertiliser
- Make sure pH is 6.5 7.0 and soil structure is in good condition
- Remove any thatch, moss etc. using grassland rakes or harrows (remove excessive material if necessary)

- If broadcasting seed, ensure the rake/ harrow produces sufficient surface tilth to bury the seed
- If using a specialist overseeding drill or a disc seed drill, avoid excessively wet conditions. Leaving the seed in an 'open slot' is not a good start
- Always roll the seed in, preferably using Cambridge rolls, to ensure good seed-to-soil contact.

OVERSEEDING GRASSLAND

Which grass varieties should I use?

For specialist cutting leys, Hybrid ryegrasses are preferable. They are vigorous to establish and are more persistent than Italian Ryegrass. For dual purpose leys, Hybrids or tetraploid perennial ryegrasses are more reliable.

Golden Rules

- 1. Don't leave grassland to reach very low levels before overseeding. Remember, maximising average annual production is key.
- 2. Have a planned approach to overseeding, monitoring leys to ensure high yields of good quality forage are produced.
- 3. Choose the right variety to sow for your situation.



OVERSEEDING MIXTURES

Dual Purpose Overseeding

Dual purpose overseeding mixtures are designed to improve a medium to longterm cutting and grazing ley. As shown a clover mixture is also available.

Dual Purpose

35%	Hybrid Ryegrass	(T)
30%	Intermed. Perennial Ryegrass	(T)
35%	Late Perennial Ryegrass	(T)
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Recommended sowing rate 10 kg/acre

Dual Purpose with Clover

30%	Hybrid Ryegrass	(T)
30%	Intermed. Perennial Ryegrass	(D)
30%	Late Perennial Ryegrass	(D)
10%	White Clover Blend	

Recommended sowing rate 10 kg/acre

Grazer Overseeding

Grazer overseeding mixtures are designed for improving quality of medium to long-term grazing leys. Using tetraploid perennials which are favourable for grazing.

Grazer

40%	Intermed. Perennial Ryegrass	(T)
30%	Late Perennial Ryegrass	(T)

- 30% Late Perennial Ryegrass (T)
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Recommended sowing rate 10 kg/acre

Grazer with Clover

40%	Intermed. Perennial Ryegrass	(T)
25%	Late Perennial Ryegrass	(T)
25%	Late Perennial Ryegrass	(T)
10%	White Clover Blend	

Recommended sowing rate 10 kg/acre

WILD FLOWER & ENVIRONMENTAL MIXTURES

Alongside our Productive Grass mixtures, we are also suppliers of **Wildflower and Environmental Stewardship Mixtures**. To get the full details of these please ask one of our representatives for the full range from our **Specialist Seeds Brochure**.

English Meadow Mix

English Meadow Mix Flora

- 5% Birds Foot Trefoil
- 8% Black Knapweed
- 5% Black Meddick
- 5% Common Vetch
- 7% Meadow Buttercup
- 4% Musk Mallow
- 12% Ox-Eye Daisy
- 12% Ribwort Plantain
- 8% Red Campion
- 13% Self Heal
- 15% White Campion
- 6% Yarrow

English Meadow Mix Grass

- 27% Meadow Fescue
- 25% Smooth Stalked Meadow Grass
- 21% Crested Dogstail
- 10% Sheeps Fescue
- 10% Red Fescue
- 7% Browntop Bentgrass

Recommended sowing rate 6 g/m²

English Meadow Mix with Annuals

Meadow Mix with Annuals Flora

- 3% Birds Foot Trefoil
- 8% Black Knapweed
- 4% Black Meddick
- 5% Common Vetch
- 7% Corn Cockle
- 7% Corn Marigold
- 3% Corn Poppy
- 5% Meadow Buttercup
- 4% Musk Mallow
- 12% Ox-Eye Daisy
- 10% Ribwort Plantain
- 5% Red Campion
- 13% Self Heal
- 10% White Campion
- 4% Yarrow

Meadow Mix with Annuals Grass

- 27% Meadow Fescue
- 25% Smooth Stalked Meadow Grass
- 21% Crested Dogstail
- 10% Sheeps Fescue
- 10% Red Fescue
- 7% Browntop Bentgrass

Recommended sowing rate 6 g/m²

AMENITY GRASS MIXTURES

We supply a wide range of **Amenity Mixtures**, most from our range below but many of which are bespoke. These cover a wide range of uses including lawns, sports and recreation areas, road verges, renovation and reinstatement for construction and civil engineering projects.

Standard Lawn

An economy lawn mixture that is quick to establish, is easily managed and will withstand medium to heavy wear with good recovery.

Standard Lawn

25% Amenity Perennial Ryegrass25% Amenity Perennial Ryegrass50% Creeping Red Fescue

Recommended sowing rate 35-50 g/m²

Hardwearing Lawn

A quality lawn with an improved appearance and high wear resistance. This mixture will tolerate more shade, and has a low maintenance requirement similar to our standard lawn.

Hardwearing Lawn

- 30% Amenity Perennial Ryegrass
- 20% Amenity Perennial Ryegrass
- 30% Strong Creeping Red Fescue
- 10% Chewings Fescue
- 10% Slender Creeping Red Fescue

Recommended sowing rate 35-50 g/m²



AMENITY GRASS MIXTURES

Superior Lawn

An enhanced version of the Hardwearing Lawn offering superior quality, but still with good wear and low maintenance.

Superior Lawn

20% Amenity Perennial Ryegrass

- 20% Amenity Perennial Ryegrass
- 15% Chewings Fescue
- 40% Creeping Red Fescue
- 5% Highland Bent

Recommended sowing rate 35-50 g/m²

Finest Lawn

A fine quality lawn mix suited to front/ formal lawns. Creates a dense sward from fine cultivars.

Finest Lawn

80% Chewings Fescue 20% Highland Bent

Recommended sowing rate 35-50 g/m²

Shady Lawn

A mixture that is designed to thrive in shaded areas under trees or areas shaded by buildings. This will also be a low maintenance mixture.

Shady Lawn

- 15% Smooth Stalk Meadow Grass
- 25% Chewings Fescue
- 20% Slender Creeping Red Fescue
- 35% Strong Creeping Red Fescue
- 5% Highland Bent

Recommended sowing rate 35-50 g/m²

Rye Free Lawn

The Rye Free Lawn Mixture is free from any ryegrasses and produces a very fine textured lawn that is low maintenance, with a lower wear capacity.

Rye Free Lawn

60%	Creeping Red Fescue
30%	Chewings Fescue
5%	Smooth Stalk Meadow Grass
5%	Highland Bent

Recommended sowing rate 35-50 g/m²

AMENITY GRASS MIXTURES

Utility Hardwearing Mix

A coarser grade, hard-wearing amenity mix that has a wide range of uses from orchards through to car parks and trackways. This mixture is also popular for very large gardens where a slow growing, low maintenance mixture is required. A top tip is to sow this at high rates where more wear is likely.

Utility Hardwearing Mix

50%	Kent Indigenous Ryegrass
25%	Creeping Red Fescue
12.5%	Amenity Perennial Ryegrass
12.5%	Amenity Perennial Ryegrass

Recommended sowing rate 35-50 g/m²

Solar Park Mix

This is a mixture that has been designed to create low maintenance permanent grassland. It has been designed using species that are long lasting and slow growing after seeding.

Solar Park Mix

	15%	Meadow Fescue
	15%	Kent Indigenous Ryegrass
	20%	Smooth Stalk Meadowgrass
	20%	Timothy
	15%	Strong Creeping Red Fescue
	10%	Hard Fescue
	5%	Small Leaved White Clover
l	Rec	ommended sowing rate 20 kg/acre

ORGANIC MIXTURES

The organic sector is becoming an increasingly important part of British agriculture. This sector offers particular challenges in terms of mixture design and variety supply.

Having over ten years' experience in this field we are well equipped to meet these demands.

Using our extensive stock, and on-site mixing facilities, we are able to produce a wide range of organic mixtures.

This can be an organic version of any of the agricultural mixtures contained in this catalogue, or they can be bespoke mixes designed to meet your specific requirements.

Please do not hesitate to get in touch with us to discuss your individual requirements regarding organic mixtures.

FIELD MARGINS AND FIELD CORNERS

Field Margins, Field Corners, Pollen & Nectar Mixtures

This is a part of the grass market that is extremely diverse, below are listed some of the most commonly used mixtures, which we are happy as always to tailor to your exact needs.

Margin Mix 1

30% Creeping Red Fescue

- 20% Hard Fescue
- 20% Tall Fescue
- 15% Cocksfoot
- 15% Timothy

Recommended sowing rate 20 kg/acre

Margin Mix 1 + Clover

- 25% Creeping Red Fescue
- 20% Hard Fescue
- 20% Tall Fescue
- 15% Cocksfoot
- 15% Timothy
- 5% Red Clover

Recommended sowing rate 20 kg/acre

Margin Mix 2

25% Creeping Red Fescue

- 20% Hard Fescue
- 20% Tall Fescue
- 20% Chewings Fescue
- 15% Timothy

Recommended sowing rate 20 kg/acre

Margin Mix 2 + Clover

- 25% Creeping Red Fescue
- 20% Hard Fescue
- 20% Chewings Fescue
- 15% Tall Fescue
- 15% Timothy
- 5% Red Clover

Recommended sowing rate 20 kg/acre

POLLEN & NECTAR MIXTURES

Margin with Flora

- 25% Chewings Fescue
- 20% Hard Fescue
- 15% Slender Red Fescue
- 15% Creeping Red Fescue
- 5% Sainfoin
- 4% Smooth Stalked Meadow Grass
- 4% Crested Dogstail
- 3.5% Vetch
- 2.5% Red Clover
- 2% Browntop Bent
- 1% Birdsfoot Trefoil
- 1% Black Medick
- 0.5% Ox Eye Daisy
- 0.5% Wild Carrot
- 0.5% Yarrow
- 0.25% Black Knapweed
- 0.25% Ribwort Plantain

Recommended sowing rate 20 kg/acre

Pollen & Nectar Mix 1

50%	Sainfoin
18%	Vetch
10.5%	Alsike Clover
10%	Birdsfoot Trefoil
8.5%	Red Clover
3%	Lucerne

Recommended sowing rate 20 kg/acre

Pollen & Nectar Mix 2

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

Recommended sowing rate 20 kg/acre



T DENNE & sons



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