# Practical experience of multi species leys for diary, beef and sheep

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## **Key Issues**

## Identified by the discussion group over the last 18 months

- What are other people doing differently from me
- Are these swards as productive as normal swards
- Is there a key component in the composition of the sward
- Crop establishment
- Utilisation rotation length & residual sward height
- Soil Organic Matter

## **Issue with Ryegrass**

#### **Good Points**

- Plenty of varietal choice
- Reliable under a range of conditions
- High quality as a result of breeding input

#### Downside

- Shallow rooting
- Poor Nitrogen scavenging
- Lack of drought tolerance
- Only has 3 living leaves
- Head very quickly and frequently

## **Measuring Productivity**

Plate meters do not provide reliable information Measure the output over the season

Ley	Yr. 1 T DM / Ha / Yr.	Yr. 2 T DM / Ha / Yr.	
Herbal Mix	13.2	10.5	
Grass/Clover	13.7	10.6	

## Farm Performance Over a Season

Platform Performance	1 *	2	3
Proportion of Diverse Swards	44.50%	14.00%	100.00%
Stocking rate (LU / Ha)	2.25	1.09	1.94
Av. Stocking Density (kg / Ha / Day)	59 <i>,</i> 554	24,080	58,231
Av. Grazing Rotation length (Days)	41	29	46
Milk Solids (Kg / Ha)	1,025	351	686
EC Milk from Grazing (L / Ha)	7,928	3,265	5,589
DM of Silage Removed (tonne / ha)	1.63	2.86	0.74

\* Conventional

## **Sward Composition**

How Much Grass ? + or – 60% Depends on site

Species Mix Ryegrass (Italian and or perennial) Cocksfoot, Timothy Tall Fescue Sheep Fescue Meadow Fescue Festuolium Early year bulk v long yield

Legumes mix them up 25-35% by weight More if large seeds such as vetch or sainfoin.

Herbs 15-20% Do not purchase on price alone

Understand what is less likely to establish

Digestibility and palatability counts



## **Composition of Sward**

#### Manor Farm Chedworth 2013 -14



#### Establishment

#### Spring or autumn

Spring under sowing seems to be most reliable

If autumn make sure it is early mid August.

Herb seeds are small so plant shallowly

Give the small seeds some protection.



## **Utilising Diverse Swards**

Ensure clovers / legumes do establish Do not over graze in the early years Vary the rotation with the season (18-120 days) Leave long residuals at least once in the season



