clover

Getting started with clover

There is growing interest in white clover on grassland farms.

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arms that have established grass-clover swards (over 12 months old) and that have adequate clover content (over 20%) are in a position to reduce chemical N on individual paddocks from May onwards. Establishing a grass-clover sward across an entire farm can take a number of years using conventional reseeding, however.

Introducing clover into existing grass swards (over-sowing) is a simpler, more cost-effective option in the early part of the year, and should be done from early April to late May.

Success depends on weather conditions around sowing and post-sowing grazing management.

Choose paddocks that have a high perennial ryegrass content, low weed content and adequate soil fertility for oversowing this year. Paddocks that

Management of grassclover swards after over-sowing

Poor establishment occurs where grass gets too strong after over-sowing. This is the single biggest reason for failure that lies within the farmer's control.

The most important recommendation is for tight grazing for the first three grazings post-sowing – keep pre-grazing herbage mass over 1,200kg DM and grazing swards to \leq 4cm. This allows light to penetrate to the base of the sward, which is essential for clover establishment.

Once clover is present in the swards, it is vital to use clover-safe herbicides. When over-sowing clover into existing grass swards, it may be better to control more established weeds before over-sowing white clover into the sward.

Over-sowing is just the first part of your strategy to grow more clover and use less N fertiliser. We'll revisit clover agronomy in the March-April edition. have a low perennial ryegrass content and/or high weed content are not suitable for over-sowing. A full reseed will be more suitable (full reseeds will be discussed in the next edition).

Key steps involved when over-sowing white clover

•White clover seed can be broadcast onto the sward or stitched in using a suitable machine.

•If broadcasting with a fertiliser spreader, mix clover seed with 0:7:30 fertiliser and only add the clover to the spreader when you are in the field. This will help avoid clover settling at the base of the spreader.

•Do a maximum of 2ha at a time (to avoid seed settling), and spread in two directions across the field.

•Best practice is to over-sow directly after grazing (\leq 4cm post-grazing sward height or after cutting the paddock for surplus bales – ideally only over-sow three to four paddocks at a time.

•Control weeds before you consider

over-sowing clover – remember, some herbicides have a residue of up to four months – always check the residual time on the label of the product or seek advice on a suitable weed control product.

•Use a slightly higher seeding rate (5kg/ha) for over-sowing compared to a full reseed, to overcome the issues with slugs and possibly a lower germination rate.

•Sow with a fertiliser that contains phosphorus, as this will favour establishment, particularly if soil fertility is low. One bag of 0:7:30 or 0:10:20 per acre. If possible, reduce N fertiliser post over-sowing.

•Roll paddocks post-sowing. Soil to seed contact is one of the most crucial factors effecting germination. Apply watery slurry (if available) – ideally at around 2,000 gallons/ac.

•Ideally, over-sow on well managed grassland – not suitable on old 'butty' swards with a low content of perennial ryegrass – if this is the case, a full reseed is a better option.

