Dairy Consultancy Services Autumn Newsletter - Maize Edition

www.dairyconsultancyservices.com

Maize Update

September 2011

This year has seen fantastic growth in our acreage of maize seed working closely with Thomas Bros Nash and with the support of our Maize seed suppliers Horizon Seeds and their parent company Grainseed.

Our clients maize crops are looking very well despite the variable summer weather we have seen and thoughts now turn towards harvest. ES Ballade, Dominator, Picker and Coastguard have all grown well with bumper crops expected. Good reports are coming back on our starter fertiliser Maxi Maize which has ensured crops got off to a good start.

The key to quality as ever will be to allow crops to mature fully to allow starch yields to be optimised and thus ensuring feed value is maximised. This could mean a wider than normal harvest window this autumn due to the extended period between the earliest and latest maize plantings in the spring.

To ensure maize silage has a fast and efficient fermentation reducing dry matter losses and preventing heating at feed out, we recommend treating with a well proven additive such as **Double Action Ecocorn**

Our clients have had great success with the new clear plastic "cling film" silage sheets along with secure covers, which have ensured there is little or no surface waste . (Contact us for prices.)



Ask us about our range of maize additives,silage sheets and secure covers to ensure you get the best possible value from your maize silage this autumn.



We will once again be hosting an open day on Monday 10th October at Thomas Bros maize trial site near cardiff where visitors can enjoy hot coffee and bacon rolls whilst reviewing new and current maize varieties.

Neil Groom of Grainseed will once again be on hand to offer advice on maize variety choice and agronomy. (Invites will be sent out shortly)



Tel 07795 373433 or email dairyconsultancy@aol.com

Maize Harvesting - Additive Selection

With the high cost of growing maize silage and the even higher cost of bought in feeds it makes sense to use a maize silage additive that will ensure a fast efficient fermentation leading to improved animal performance and also reduce aerobic spoilage.

Double Action Ecocorn combines the fermentation and animal performance benefits of MTD/1 inoculant with reduced aerobic spoilage from pottasium sorbate, a safe, non-corrosive food and feed approved acid salt preservative - all in one easy to use pack.

MTD/1 Inoculant - is the unique high performance strain of *Lactobacillus plantarum* proven over a wide range of crops and ensiling conditions to improve fermentation and animal performance. This is achieved by increasing the speed and efficiency of fermentation, reducing fermentation losses and improving palatability.

At Dairy Consultancy Services we believe that any product that we recommend or supply should be proven both on farm and with good published trial results.

With 15 independent dairy trials, MTD/1 is supported by more animal performance evidence than any other inoculant. Trials with maize and whole crop cereals have shown increases in milk yield of between 1.8 and 2.2 litres/cow/day respectively.

Potassium Sorbate - Trials by the Maize Growers Association and Kingshay have shown repeatedly that chemicals are more robust than inoculants for preventing aerobic spoilage.

In the 2002 MGA trial **Double Action Ecocorn** (MTD/1 + Potassium Sorbate) was the only product tested that reduced the daily loss in income \pounds due to heating and spoilage.



15 Independent dairy trials (see graph above)

Trials have shown significantly longer silage stability See table below showing days stable. This also prevents heating in the feed trough.

Crop	Untreated	DA Ecocorn
Wheat	2.4	8
Barley	2.1	5.3
Maize	1.3	1.3





Ask for your free copy of our maize harvesting guide to ensure you allow your maize crop to reach optimum dry matter %.

Harvesting at the correct maturity allows cobs to maximise starch yield and quality resulting in improved feed value and the opportunity to reduce bought in feed costs.



Maize Harvesting Tips

Clamping

- Chop to 1 cm for easier compaction, if targeting high BF % then consider chopping at 2 cm
- Apply **Double Action Ecocorn** to ensure fast efficient fermentation with reduced spoilage
- Ensure clamp is filled rapidly, ideally same day if not then sheet overnight.
- Fill evenly in thin layers
- Roll continuously especially on shoulders
- If sheeting overnight roll for around max 30 mins before sheeting.
- Use clear "clingfilm" sheet covered with 500 gauge black plastic and weighted with **secure cover** and gravel bags.



Feed Out

- Wait 3 weeks before opening to allow fermentation to stabilise and grains to soften.
- Use a block cutter or shear grab to keep the face tight. If using a bucket scrape down not up.
- Move face back quickly, at least 6 inches a day in winter and 12 inches in summer.
- Cut or roll sheet back as you go weighting the front edge with gravel bags. Never let it hang down over face as this will increase heating.
- Tidy up fallen silage to prevent it heating.

Secure Covers

Secure Covers are made from high quality, finely knitted, UV stable polyethylene mesh.

The Secure Cover is placed over the normal silage sheet and weighted with gravel bags only at the edges and joins.

Once fitted, Secure Covers' unique construction disperses wind gusts making sure that the silage sheet remains in place on the silage pit.

Secure Covers effectively reduce surface waste by keeping the silage sheet in close contact with silarge surface (contact us for prices).

What is Silostop® Clear 2-step film? The Silostop® effect stop® Clear 2-step Oxygen Barrier film is a thir "Silostop® is easy to use, labour savin and creates a very <10% lo (45 micron) impermeable film which prevents the entry of oxygen into the silage. It is lightweight, strong, easy to fop 1m of silage 20% loss with use and cost effective. Use of Silostop® results in minima effective seal lage loss, improved animal intake and animal health an Macalpin Since using Silostop⁸ there has been no top ayer spoilage, and an improvement in the Oxygen Transmission Rate (OTR) comparison 50% loss with no ality of our silag covering Mr Rowland, Dairy Farmer Anglesey Regular silage 125 2000 400 cover Using Silostop^a 45 30 3 on brewers grains as eliminated waste Clear 2-step e no longer have to ove spoiled grains. The table shows that standard independent lab tests prove that Silostop[®] is at least 100 times more of a barrier to oxygen than conventional 125 micron silage covers. "This was the best sealed section of a large bunker I have wer seen in my life! Mick Hulse Silostop® Clear film must be protected from sunlight with a Dr Keith Bolser Professor Emeri second layer. This second layer can be either a regular silage cover, or heavyweight woven nets such as the Silostop® Anti-UV net ements and improved feed intake USA For ultimate forage quality, we recommend combining Silostop⁶ Clear 2-step Oxygen Barrier film with Silostop[®] gravelbags. Ask about other Silostop® products to protect your forage from birds and help eliminate tyres

Silage sheets

We can supply a complete range of silage sheets from black plastic and clear "cling film" sheets to secure covers and gravel bags for cost effectively sealing and protecting your silage clamp.

Contact us for our range of sizes and latest pricing info on 07795 373433

Feed Update

Feeding Maize Silage

Maize silage provides an excellent forage source for dairy cows supplying high levels of both energy and starch. However ensuring maize is effectively included in your ration needs care to ensure that the cows energy, protein and mineral requirements are correctly balanced.

The recommended level of maize silage inclusion will depend on your milk contract requirements and the quality and quantity of grass silage being fed.

The aim should be to balance energy, protein starch and fibre levels to ensure yield and milk quality is optimised. If aiming for high BF% limit maize silage inclusion to no more than 50% and ensure plenty of long fibre is included. Supplement with a high digestible fibre compound, blend or straights and balance protein requirements particularly rumen degradable protein.

If higher milk protein % is a priority, for example on cheese contracts then higher levels of maize silage inclusion may be required > 50%. It is advisable to feed a high digestible fibre cake in parlour and supplement any additional starch required in the TMR using rolled wheat or crimped maize.

If grass or maize silage is low in dry matter and acidic then it is advisable to include additional long fibre as straw or haylage to promote cudding and the cows natural buffering. In more extreme cases it may be necessary to include rumen buffers such as acid buff or yeast.

Care should also be taken to ensure correct mineral supplementation as maize silage is very low in all essential minerals. **Dairy Consultancy Services** can provide a forage mineral analysis and complete diet check and then supply a custom mineral to balance your ration.

We can also supply a full range of custom made fixed formulation, open declaration compounds and blends, along with a range of straights, moist feeds and feed supplements, which we group source at best cost.

Feeding Maize Silage ✓ Identify your milk contract quality requirements ✓ If high BF % required limit maize to < 50% of diet ✓ Limit feeding of starch sources such as wheat ✓ Feed high fibre feeds such as sugar beet pulp, soya hulls, wheatfeed, (ideally as a blend) ✓ Use a parlour cake high in digestible fibre ✓ Ensure adequate long fibre is fed ie 0.5kg straw. ✓ If high milk protein % required feed > 50% maize ✓ Use feeds high in rumen protein such as rape-seed ext, high protein molasses or Optigen. ✓ Consider the use of rumen buffers or yeast.



Dairy Consultancy Services Independent Nutrition Consultancy

Group Sourced Feed Options Fixed Formula Compounds & Blends Moist Feeds Straights Molasses Custom Minerals & mineral Buckets Calf Milk - Bonanaza Shine Once A Day

Call us to arrange a free herd performance and ration check using Interherd and advanced ration software to help you identify areas for improvement.

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