



## IGER Grassland Development Centre

### Monitoring of Grass Quality for Ensiling



Reporting on samples collected on **21st May 2007**

Producing a high quality, well fermented, stable silage will only be possible if the grass at cutting time is of suitable quality.

#### ***Targets***

High sugars (above 3%@20%DM) to provide an energy source to drive fermentation

- *low nitrate N% (below 0.1)* to prevent the production of ammonia nitrogen that will increase buffering capacity and restrict fermentation
- *D value* – the digestibility of grass is directly related to its energy level – target above 67D for growing/fattening animals and dairy cows.

This weekly GDC update will allow you to gauge how swards are progressing across Wales - to help you make the best quality silage. The majority of samples are currently from lowland dairy farms – as the weeks progress the samples will increasingly come from beef/sheep farms and from higher altitudes

#### **GDC GRASS TEST RESULTS (May 21st 2007)**

<b>Crop type/ Test</b>	Young PRG /Red Clover Leys	Young PRG Ley	Young IRG / PRG Ley	Average
<b>Dry Matter</b>	18.6	23.7	17.5	19.6
<b>D value</b>	69.5	71	68	69.5
<b>Crude protein %</b>	18.7	19.9	17.7	18.7
<b>Nitrate N %</b>	0.02	0.01	0.04	0.02
<b>Soluble sugar %@20% DM</b>	3.4	3.7	3.6	3.5

#### ***Quality Issues***

Weather this week has been characterised by dry warm sunny spells, light winds and increasing temperatures through the week although cooler today (Friday). The outlook for next week is cloudy, wet, windy with rather cool conditions dominating.

The farms that are now contributing to our reports are mostly beef/sheep farms – but also dairy producers who overwintered sheep into late winter.

Their leys will be characterised by later heading varieties which this year have been heading about two weeks earlier than average. So if you're aiming for a crop with around 67D or 50% ear emergence, cutting will possibly earlier this year.

### ***Sulphur levels***

There was one result for sulphur this week.

<b>Sulphur % DM</b>	<b>Nitrogen % DM</b>	<b>N : S ratio</b>
0.23	2.66	11.6

Sulphur levels of less than 0.25% OR a nitrogen : sulphur ratio greater than 13 indicates sulphur deficiency.

The above result indicates a sulphur deficiency that would impact on 2<sup>nd</sup> cut yields. This deficiency has occurred even on ground that has had significant slurry applications over winter.

### ***Additive use***

It is recommended that where silages are high quality targeted for growing/fattening stock or milking cows that an additive should be used to maximise protein quality. Additives would be advisable on all silages where conditions may restrict rapid fermentation; low sugars, high nitrates, wet crops and poor harvesting conditions.

A good inoculant (one with a million + bugs/gram dry matter) will help to achieve a good fermentation in wet conditions – there should be no need to resort to an acid unless there are high nitrates or significant soil contamination.

### **Weather forecast**

For the latest 5 day forecast follow this link

[http://www.metoffice.gov.uk/weather/uk/wl/wl\\_forecast\\_wind.html](http://www.metoffice.gov.uk/weather/uk/wl/wl_forecast_wind.html)

### **For more information contact:**

IGER Grassland Development Centre on 01970 823058

<http://www.iger.bbsrc.ac.uk/Practice/GTT/Events.htm>

or email one of the GDC team:

[huw.powell@bbsrc.ac.uk](mailto:huw.powell@bbsrc.ac.uk),

[chris.duller@bbsrc.ac.uk](mailto:chris.duller@bbsrc.ac.uk),

[charlie.morgan@bbsrc.ac.uk](mailto:charlie.morgan@bbsrc.ac.uk), or

[heather.mccalman@bbsrc.ac.uk](mailto:heather.mccalman@bbsrc.ac.uk))

The Grassland Development Centre, based in IGER is managed by the Welsh Assembly Government as part of Farming Connect.

