

## FEED TEST RESULTS FOR PASTURE PLUS

### At the Walcha Dairy Trial Site

by Greg Kaynes, Area Sales Manager (NNSW/ QLD)



The Walcha Dairy is an important part of the **Pasture Plus** story.

This IN examines in detail the outstanding results achieved when samples were taken and analysed by an accredited independent laboratory in New South Wales.

The Feed Test analysis on **Pasture Plus**-treated paddocks as opposed to non-treated paddocks was conducted on samples taken from the Walcha Dairy. The results support the observations that **Pasture Plus** has the demonstrable ability to increase Crude Protein in the range of 28% - 50%.


Instances of **Pasture Plus** improving crude protein level in the New England region range from between 28% to 50%.

The Walcha Dairy annually applies 300kg Urea, which in itself builds up Crude Protein in the plant.

**28%**   
Increase

But, what our tests have demonstrated is that **Pasture Plus** can improve pasture even further.

The following table summarises the laboratory results :

	Date of sample collection – 20 November 2014	
	Date of sample analysis – 25 November 2014	
	Type of sample – Pasture, fresh	
	NOTE : Metabolisable Energy calculated using this equation   ME=(0.203 x DOMD%) - 3.001	
	Untreated	Treated (Pasture Plus)
Dry Matter (%)	37	35.6
Moisture (%)	62.1	64.4
Crude Protein (% of dry matter)	16.8	21.6 +28%
Acid Detergent Fibre (% of dry matter)	33.6	32.5
Neutral Detergent Fibre (% of dry matter)	59.5	56.7
Digestibility (DMD) (% of dry matter)	66.5	72.1
Digestibility (DOMD) (Calculated) (% of dry matter)	63.2	67.9
Est. Metabolisable Energy (Calculated) (MJ/kg DM)	9.8	10.8

The following comments are given as a basis for interpreting the result of this analysis :

- For every 1kg additional crude protein you increase in the pasture, you increase live weight gain by 40% (ratio 1:1.4), *reference recent studies by the MTT Agri-food Research Finland and Swedish University of Agricultural Sciences into the advantages of adding protein to the silage diets of cattle.*
- Walcha Dairy (Rye Grass) showed 28% improvement in a high performance pasture which theoretically can produce 6,000kg of dry matter per annum.

The following conclusions and calculations are drawn based on this result :

- Dry Matter at 35.6%
- Dry Matter = 2,136kg dry matter per hectare
- Crude Protein before **Pasture Plus** 16.8% = 358.84kg Crude Protein per hectare
- Crude Protein after **Pasture Plus** 21.6% = 461.376kg Crude Protein per hectare
- **Pasture Plus** provides an additional 102.536kg/ha more Crude Protein per hectare
- This translates to 143.55kg additional weight gain per hectare
- At AUD\$2.1/kg – an additional income of \$301.45 per hectare

Crude Protein

**+102.5 kg/ha**

Additional

**+143.5 kg**  
weight gain/ha

@ AUD \$ 2.1/kg

**+\$301.45/ha**  
Extra Income

And, this data does not take into consideration the fact that **Pasture Plus** also produces an additional 30% more herbage mass – which is an obvious, value-adding outcome.

If you would like to discuss the benefits of **Pasture Plus** Greg Kaynes can be contacted at [gkaynes@rlf.com.au](mailto:gkaynes@rlf.com.au)



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