



LITCHFIELD ANALYTICAL SERVICES

P.O. Box 457

535 Marshall Street

Litchfield, MI 49252

Phone: (517)-542-2915 Fax: (517)-542-2014

email: litchlab@qcnet.net web page: www.litchlab.com

Feeds Forages Mycotoxins Soils Plant Tissues Manure Fertilizers Lime Water

RFV versus RFQ

RFV stands for Relative Feed Value and is calculated as follows:

$$\text{RFV} = (\text{NDF Dry Matter Intake} * \text{Digestible Dry Matter}) / 1.23$$

RFQ stands for Relative Feed Value and is calculated as follows:

$$\text{RFQ} = (\text{NDFd Dry Matter Intake} * \text{Summative TDN}) / 1.23$$

How Does RFV compare to RFQ? (Undersander, University of Wisconsin)

<u>RFV</u>	=	<u>RFQ</u>
90	=	68
134	=	134
188	=	207

Advantages of RFQ:

- NDFd is a better indicator of Dry Matter Intake.
- Other nutrient fractions are considered in calculating Summative TDN.
- RFQ can be translated into estimated energy intake as follows:

$$\text{RFQ} * 0.0123 = \text{Estimated TDN Intake (\% of Body Weight)}$$

Disadvantages of RFQ:

- Higher costs for more extensive laboratory analysis.
- Slower turn-around of sample results from the laboratory.
- Re-education process to acquaint customers with a new concept.