

<< Appendix A - Calculated Values=!--webbot bot="Navigation" i-checksum="10427" endspan =>

A2. Adjusted Crude Protein >>

A1. Relative Feed Value Index

References:

Rohweder, Dwayne A. 1984. Estimating orange hay quality. In National Alfalfa Hay Quality Testing Workshop. pp 1-37 Chicago, IL. March 22-23.

Mertens, David. 1985. Effect of fiber on feed quality for dairy cows. In Proc. Minnesota Nutrition Conference. pp 204-224.

Linn, J.G. Neal P. Martin, W.T. Howard. and D.A. Rohweder. 1987. Relative feed value as a measure of forage quality. Minnesota Forage UPDATE. vol XII, No. 4. pp 2,4. Minnesota Forage and Grassland Council.

Rohweder, D.A., R.F. Barnes, and Neal Jorgensen. 1978. Proposed hay grading standards based on laboratory analysis for valuating quality. J. Anim. Sci. 47:747-759.

Scope:

Digestible Dry Matter (DDM), Dry Matter Intake (DMI), and Relative Feed Value Index (RFV) calculations are applicable to legume, legume-grass and cool season grass fresh forages, hays and silages.

Basic Principle:

Relative feed value index is an index which ranks cool season legumes, grasses and mixtures by potential digestible dry matter intake. It is an index used to allocate forages to the proper livestock class with a given level of expected performance. Relative feed value is calculated from digestible dry matter and dry matter intake. Digestible dry matter is an estimate of the total digestibility of the feed and is calculated from acid detergent fiber. Dry matter intake is an estimate of the amount of feed an animal will consume in percent of body weight and is calculated from percent neutral detergent fiber.

Calculation: Relative Feed Value (RFV)

$$\text{DDM} = \text{Digestible Dry Matter} = 88.9 - (.779 \times \% \text{ADF})$$

$$\text{DMI} = \text{Dry Matter Intake} = 120 / \% \text{NDF}$$

$$\text{RFV} = \text{DDM} \times \text{DMI} / .29$$

- % ADF = acid detergent fiber, dry matter basis
- % NDF = neutral detergent fiber, dry matter basis

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