Laboratorio Analisi Zootecniche sas –Gonzaga MN:

informazioni sui Parametri analizzati presso Dairyland (USA)

| СР | Proteina grezza |
|-------------------|--|
| AD-ICP | Acid Detergent Insoluble Crude Protein (ADICP) (Most feeds naturally contain 5 to 10% of |
| | nitrogen (CP) as ADIN, but ADIN greater than 15% of nitrogen is an indicator of heat damage. |
| | Formation of ADIN is also called non-enzymatic browning (because the hay or silage turns |
| | brown) or Maillard reaction. |
| | Proteina grezza (insolubile) legata all'ADF |
| ND-ICP w/Na2SO3 | Neutral Detergent Insoluble Crude Protein, with Na2SO3 with amylase |
| SP%CP | Protein Solubility (Generally an indicator of protein rapidly digested in the rumen) |
| Ammonia CP%CP | Ammonia-CP% (In silage fermentation Ammonia N as % of CP - High levels (>12-15% of CP) |
| Ammonia CP% DM | Ammonia-CP% |
| | ADE (Residue remaining after boiling a forage sample in acid detergent solution. ADE contains |
| ADI | cellulose lignin and silica but not hemicellulose) |
| aNDF | aNDF (Residue left after boiling sample in neutral detergent solution. If anylase and sodium |
| | sulfite are used during the extraction (this is recommended procedure), the fiber fraction should |
| | be called amylase-treated NDF (aNDF) to distinguish from original method. |
| aNDFom | aNDFom (NDF with with Na2SO3 + amylase and residue ashed with ash value subtracted). |
| Lignin | Lignin (ADL) (Undigestible plant component, giving the plant cell wall giving its strength and |
| | water impermeability. Technically, a chain of phenyl propane units). |
| NDFD30 | NDF Digestibility 30 h (In vitro NDF digestibility of forages are evaluated by incubating forage |
| | in buffers and live rumen fluid, at body temperature, under anaerobic (no air) conditions. |
| | NDFD = dNDF/NDF*100). |
| NDFD120 | NDF Digestibility 120 h |
| NDFD240 | NDF Digestibility 240 h |
| uNDF0m30-120-240 | Undigested NDF 30 h (Undigested NDF residue after a specified time of digestion: 24.20, 120, 240 h, $A = 1000$ ($= NDE$) |
| Staugh | 24, 30, 120, 240 h. At time $0n = 100%$ uNDF of NDF). |
| | Starch In Vitro Storch Digostibility (IVSD 7 b) |
| FF(Fat) | Fat (ethereal extract) |
| ash | Ash |
| | Lactic Acid |
| Acetic | Acetic Acid |
| Propionic | Propionic Acid |
| pH | pH |
| Adj_CP | Adjusted Crude Protein (Adjusted crude protein estimates the protein available for animal use and |
| | should be used for formulating rations when ADFCP is greater than 14% of the total crude |
| | protein). |
| NFC | NFC |
| RFV | Relative Feed Value (RFV) (An index for ranking cool season grass and legume forages based on |
| | Intake of digestible energy. KFV is calculated from ADF and NDF as follows: PEV = [(120/NDE) * (0.990, (0.770 * ADE))] / (1.20) |
| PEO | $RFV = [(120/NDF)^{+}(0.009^{-}(0.779^{+}ADF))]/(1.29).$ Relative Forage Quality (REQ) (An index for ranking all forages based on intake of TDN |
| МQ | calculated by estimating digestible portions of protein fatty acids fiber (NDF) and non fibrous |
| | carbohydrate. Formulas: $RFO = dIntake potential*dTDN/1.23$ |
| | Where: |
| | dTDN = TDN (defined below) with NDFD. |
| | dIntake potential for legumes |
| | =(120/NDF) + (NDFD-45) *0.374*1350/100 |
| | dIntake potential for grasses |
| | = -2.518 + 0.442 *CP - 0.0100 *CP2 - 0.0638 *TDN + 0.000922 *TDN2 + 0.180 *ADF - 0.0010(*ADF2 - 0.00520 *CD *ADF2) |
| DEO tabla 1. | U.UU190"ADF2 - U.UU529"CP"ADF). Table 1. The entropying and PEO ranges used in the Southeestern Forege Ouelity entropying the |
| Kry table 1: | 1 able 1. The categories and KFQ ranges used in the Southeastern Forage Quality categorization |
| | Premium $> 140^{\circ}$ Good 110-139 Fair 90-109 Utility < 90 |
| TDN Milk2013 | TDN Milk2013 for hav and havlage |
| Milk/Ton Milk2013 | Milk per TON Milk 2013 for hay and haylage |

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| TDN Milk2006 | TDN Milk2006 for cornsilage |
|------------------------------|---|
| Milk/Ton_Milk2006 | Milk per TON Milk 2006 for cornsilage |
| Starch_kd_MIR | Starch Digestion Rate (kd, %HR, Mertens) Rumen starch digestibility is estimated from a 7 hour incubation of a starch containing feed material, ground to 4 mm. This starch digestibility is then modeled in an equation developed by Dr. Dave Mertens to generate an estimated rate of rumen starch digestibility. This value should fall in the range of 15% to 30% / hour. |
| | |
| | |
| | |
| TDN_OARDC | The OARDC energy calculations are similar to those developed by the NRC (2001). Both calculations use a summative approach by assigning digestibility and energy values to CP, NDF, Fat, and Ash. Both the OARDC and NRC (2001) utilize the relationship between lignin and NDF to determine NDF digestibility. |
| TDN MILK2006 and MILK2013 | The MILK2006 and MILK2013 equations were developed by the University of Wisconsin for corn silage and alfalfa/grass, respectively. These use a summative approach similar to OARDC and NRC (2001) to calculate energy. In vitro NDFD is used in these calculations instead of lignin to estimate NDF digestion. Additionally, MILK2006 takes processing and moisture content into consideration for predicting starch digestibility in corn silage. |