

Animal Enhancement Activity – ANM17 – Monitoring nutritional status of livestock using the NUTBAL PRO system



Enhancement Description

Use the NUTBAL PRO software to determine if the current diet is sufficient to meet livestock nutritional needs. This requires the collection and laboratory analysis of forage or fecal samples to determine the nutritional value of grazing forages.

Land Use Applicability

Pasture, Range

Benefits

NUTBAL PRO is decision support software that assimilates information regarding animal attributes, environmental conditions, forage conditions, feeding program, and metabolic modifiers. NUTBAL PRO reports provide information to:

- Balance animal nutritional needs with contributions from grazing forage,
- Select the most cost efficient feed alternative, amount to be fed, and cost per day,
- Evaluate feed stuff values with regards to the animal's nutrient deficiency or desired gain,
- Monitor the quality of grazing forages throughout the year, and
- Better understand animal nutritional needs as they change throughout the year.

Conditions Where Enhancement Applies

This enhancement applies to all pasture or range land use acres.

Criteria

1. Forages (using either fecal samples or forage tissue sample) must be analyzed by an accredited laboratory,
2. Information is entered into the NUTBAL PRO decision support software,
3. A report must be generated and management decisions documented and completed within 14 days from receiving forage analysis, and
4. A minimum of 6 forage analysis and NUTBAL PRO reports must be completed each year.

Adoption Requirements

This enhancement is considered adopted when a minimum of 6 NUTBAL PRO reports have been generated per year and the results have been used to make management decisions.

Documentation Requirements

For each forage sample collected for analysis:

1. A copy of the forage analysis report.



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2014 Ranking Period 1

2. A copy of the NUTBAL PRO reports generated from the decision support software.
3. Written documentation of the management decisions made as a result of the analysis.

References

CNRIT. 2011. Grazing Animal Nutrition Lab website. Texas AgriLife Research. Texas A&M University.
<http://cnrit.tamu.edu/ganlab/index.php>

Walker, J., D. Tolleson, S. Byrns and P. Bengé. 2010. Shining Light on Manure Improves Livestock and Land Management. Texas AgriLife Research Technical Bulletin: SANG-2010-0250. Texas AgriLife Research and the Society for Range Management.