

Accepted Manuscript

Title: Glycerine levels in the diets of crossbred bulls finished in feedlot: Apparent digestibility, feed intake and animal performance

Author: C.E. Eiras L.P. Barbosa J.A. Marques F.L. Araújo
B.S. Lima F.Zawadzki D. Perotto I.N. Prado



PII: S0377-8401(14)00228-4
DOI: <http://dx.doi.org/doi:10.1016/j.anifeedsci.2014.07.004>
Reference: ANIFEE 13117

To appear in: *Animal Feed Science and Technology*

Received date: 16-6-2014
Revised date: 9-7-2014
Accepted date: 10-7-2014

Please cite this article as: Eiras, C.E., Barbosa, L.P., Marques, J.A., Araújo, F.L., Lima, B.S., Perotto, D., Prado, I.N., Glycerine levels in the diets of crossbred bulls finished in feedlot: apparent digestibility, feed intake and animal performance, *Animal Feed Science and Technology* (2014), <http://dx.doi.org/10.1016/j.anifeedsci.2014.07.004>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

1 **Glycerine levels in the diets of crossbred bulls finished in feedlot: apparent digestibility,**
2 **feed intake and animal performance**

3

4 C. E. Eiras^a, L. P. Barbosa^b, J. A. Marques^{b†}, F. L. Araújo^b, B. S. Lima^a, F. Zawadzki^a, D.
5 Perotto^c, I. N. Prado^{a*}

6 ^a*Department of Animal Science – State University of Maringá. *CNPq fellowship.*

7 ^b*Federal University Recôncavo of Bahia. †In memoriam.*

8 ^c*Department of Animal Science – Agronomic Institute of Paraná.*

9 **Corresponding author: inprado@uem.br*

10

11 **Abstract**

12 This work was carried out to study different levels of glycerine as a partial replacement of
13 corn on apparent digestibility, feed intake and efficiency and animal performance in young
14 Purunã bulls finished in a feedlot. This study used 40 Purunã bulls of 209 ± 33.3 kg live
15 weight and 8 ± 0.9 months old at the start of the experiment. The bulls were kept in a feedlot
16 for 240 days. The diets were as follows: no glycerine and glycerine added at 60, 120 and 178
17 g/kg DM. The apparent digestibility of nutrients increased with increasing glycerine in the
18 diet, with the exception of ether extract and neutral detergent fibre. Feed efficiency was
19 improved by increasing glycerine level in the diet. The feed intake and animal performance
20 were similar among the four diets.

21 *Key words:* Animal performance; Cattle; Feed efficiency; Energy, Glycerine

22

23 **1. Introduction**

24 High global demand for energy has led to the increasing production and trade of biofuels,
25 especially liquid fuels for transportation to replace fossil energy sources, improve energy

Download English Version:

<https://daneshyari.com/en/article/8491628>

Download Persian Version:

<https://daneshyari.com/article/8491628>

[Daneshyari.com](https://daneshyari.com)