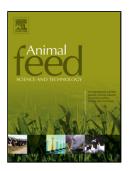
Accepted Manuscript

Title: Effect of feeder design and concentrate presentation form on performance, carcass characteristics, and behavior of fattening Holstein bulls fed high-concentrate diets



Authors: M. Verdú, A. Bach, M. Devant

PII: DOI: Reference:	S0377-8401(17)30146-3 http://dx.doi.org/doi:10.1016/j.anifeedsci.2017.07.003 ANIFEE 13818				
To appear in:	Animal	Feed	Science	and	Technology
Received date: Revised date: Accepted date:	3-2-2017 2-7-2017 3-7-2017				

Please cite this article as: Verdú, M., Bach, A., Devant, M., Effect of feeder design and concentrate presentation form on performance, carcass characteristics, and behavior of fattening Holstein bulls fed high-concentrate diets. Animal Feed Science and Technology http://dx.doi.org/10.1016/j.anifeedsci.2017.07.003

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.

ACCEPTED MANUSCRIPT

Feeder design and concentrate presentation form in beef cattle

Effect of feeder design and concentrate presentation form on performance, carcass characteristics, and behavior of fattening Holstein bulls fed high-concentrate diets

M. Verdú¹, A. Bach^{2,3}, M. Devant²

¹bonÀrea Agrupa, 25210 Guissona, Lleida, Spain

²Department of Ruminant Production, IRTA (Institut de Recerca i Tecnologia Agroalimentàries), and Research Group on Production Efficiency of Ruminants, Torre Marimon, 08140 Caldes de Montbui, Barcelona, Spain.

³ICREA (Institució Catalana de Recerca i Estudis Avançats), 08010 Barcelona, Barcelona, Spain.

Corresponding author: Maria Devant (e-mail: maria.devant@irta.cat).

Highlights

- Bulls fed pellets in collective feeders had greater performance.
- Pellet form sustained better growths in calves around 200 kg of BW.
- During the growing period, offering pellet form in collective feeders improved efficiency.
- During the finishing period, pellet form reduced consumption and improved efficiency.
- During the finishing period, feeding meal in a single feeder did not reduce intake.

Abstract

The study objective was to evaluate the effect of feeder design and concentrate presentation form on performance, carcass characteristics, and animal behavior in fattening Holstein bulls fed high-concentrate diets. A total of 294 bulls (175 ± 6.5 kg of BW and 139 ± 0.7 days of age) were randomly allotted to one of 16 pens (18-19 bulls per pen) distributed in 2 barns (8 pens per barn). Each pen was assigned to one of 4 treatments following a 2 x 2 factorial arrangement of treatments: feeder design (collective vs. single) and concentrate presentation

Download English Version:

https://daneshyari.com/en/article/5538670

Download Persian Version:

https://daneshyari.com/article/5538670

Daneshyari.com