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畜牧—研究报告

膨化混合饲料对泌乳后期奶牛泌乳性能、干物质采食量和营养物质表观消化率的影响

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摘要:

【研究目的】本文旨在研究膨化混合料对泌乳后期奶牛泌乳性能、干物质采食量（DMI）和营养物质表观消化率的影响。【方法】试验采用荷斯坦泌乳后期奶牛80头，随机分成2组。对照组精料为常规饲料，试验组精料中的能量、蛋白饲料为膨化饲料。试验期56天。【结果】试验结果表明：膨化混合料可显著增加泌乳牛的日产奶量（P＜0.05），试验组全期产奶总量及标准乳产量分别为1117.40 kg/头和1128.30 kg/头，比对照组增加56.43 kg/头和50.29 kg/头；膨化混合料对乳脂率和固形物总产量影响显著（P＜0.05），试验组产脂量、固形物产量分别比对照组高1.85 kg和1.17 kg；膨化混合料可提高奶牛DMI和粗蛋白表观消化率（P＜0.05），试验组DMI比对照组增加1.57kg/d，有机物的表观消化率在两组间差异不显著。【结论】膨化混合料可提高产奶后期奶牛DMI，对泌乳性能和营养物表观消化率有显著促进作用。

关键词: 膨化混合料；奶牛；生产性能；干物质采食量；表观消化率

Effect of Expanded Mixed Feed on Milking Performance, DMI and Appearance Digestibility of Nutrition in Dairy Cow of Last Lactation Period

Abstract:

In the paper, effect of expanded mixed feed on milking performance, DMI and appearance digestibility of nutrition in dairy cow was studied. 80 China Holstein dairy cow of last lactation period were randomly allotted into 2 groups. This trial lasted for 56 days. The concentrate for control group was normal feed. Parts of energy feed and protein feed of concentrate for treatment group was expanded mixed feed. The results showed that expanded mixed feed could increase milk yield (P < 0.05). Total milk yield and FCM yield per cow of the treatment group were 1117.40 kg and 1128.30 kg respectively, which were 56.43kg and 50.29kg more than the control group. Expanded mixed feed effected milk fat percentage and total solids yield significantly (P < 0.05). Yield of fat and solids in treatment group were 1.85 kg and 1.17 kg more than that of control group. Milk protein was not effected by the dietary treatment. To dairy cow of last lactation period, Expanded-mixed feed can improve the dry matter take(DMI) and appearance digestibility of crud protein significantly (P＜0.05). DMI in treatment group was 1.57kg/d more than the control group, though the results of appearance digestibility of organic matter were not significant in statistics. Expanded mixed feed could increase DMI and improve the milking performance and the appearance digestibility of nutrition.

Keywords: expanded mixed feed dairy cow milking performance DMI appearance digestibility of nutrition

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专用膨化颗粒饲料的产业化生产

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