



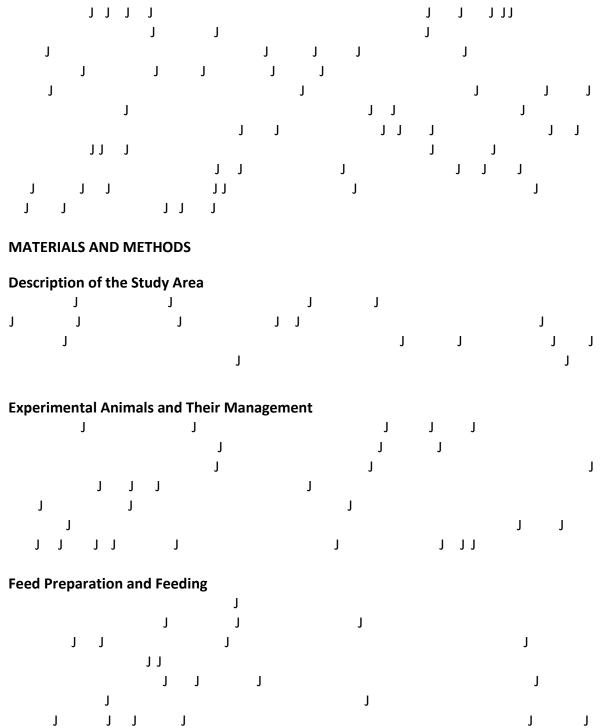
ABSTRACT

The objective of this experiment was to evaluate the effect of substitution of commercial concentrate mix with dried breweries grain on milk yield, milk composition, of crossbred dairy cows fed natural pasture hay as a basal diet, and cost-effectiveness of dried breweries grains as dairy cow feed. The experimental design was a 4 ×4 Single Latin Square Design using. The treatments were: T1: Natural pasture hay adlib +100% dried brewers' grain, T2: Natural pasture hay adlib + 66.33% dried brewer grain +33.33% wheat bran and soybean cake mixture, T3: Natural pasture hay adlib + 33.33% dried brewers' grain +66.66%, wheat bran and soya bean mixture T4: Natural pasture hay adlib + 100% wheat bran and soya bean mixture. The wheat bran and soya bean mixture were made manually by mixing soya bean cake (20%), wheat bran (78%), and common salt (2%). Milk yield and composition were similar (P > 0.05) between treatments. The daily milk yield was 9.4, 8.4, 8.5, and 9.1 liters per day for treatments 1, 2, 3, and 4, respectively. The milk fat was 4.63, 4.48, 4.46 and 4.41%, protein 3.28, 3.09, 3.06 and 3.2%, solid not-fat 8.69, 8.4, 8.9 and 8.78%, and lactose 4.79, 4.47, 4.42 and 4.74% for treatments 1, 2, 3, and 4, respectively. The result of the current study shows that breweries dried grain can replace wheat bran and soya bean cake mixture with a similar effect on milk yield and compositions, and this has been supported by biological and financial evidence. Therefore, it can be concluded that the dried grain could be used as a supplement to the lactating crossbred dairy cows where breweries' grain of the brewery is available under the conditions of the present study.

Keywords J J J J

INTRODUCTION

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Chemical Analysis of the Feed

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Experimental Design and Treatment

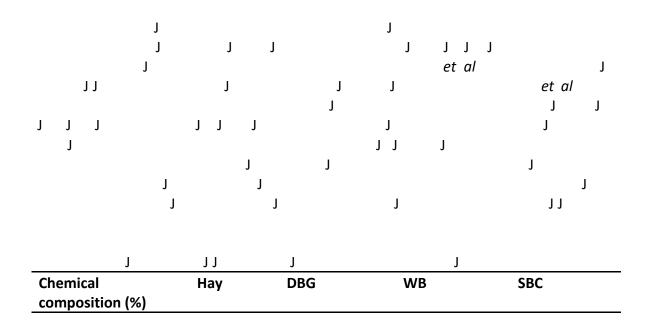
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Data Collection and Analysis

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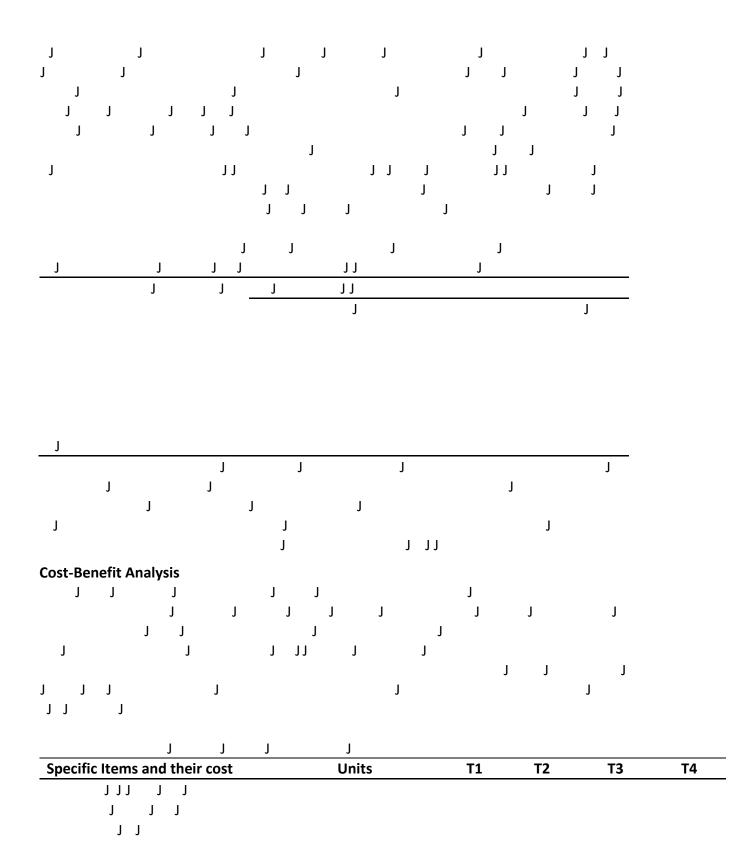
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Milk Yield and Composition

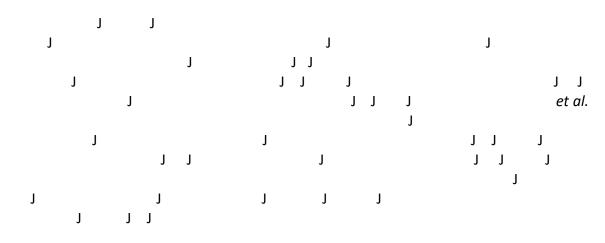
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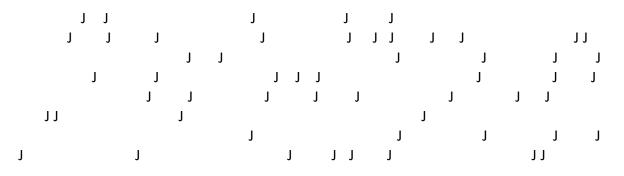


Benefit Cost Ratio (BCR) on variable costs

T1= Natural pasture hay adlib +100% dried brewery grains, T2= Natural pasture hay adlib + 66.33% dried brewery grains +33.33% wheat bran and soya bean cake mixture, T3= Natural pasture hay adlib + 33.33% dried brewery grains +66.66% wheat bran and soya bean mixture, T4= Natural pasture hay adlib + 100% wheat bran and soya bean mixture,



CONCLUSION AND RECOMMENDATION



REFERENCES

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