



# MILK COMPOSITION OF GRAZING DAIRY COWS SUPPLEMENTED WITH LICURY OIL

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#### Introduction

Milk production in Brazil (IBGE, 2008)





#### Introduction

- Syagrus coronata (Martius) Beccari
- Licury oil;
- Utilization on animal nutrition:
- **1** Energy density of diets;
- **Milk production**;
- **†** Benefits to human health
- ↑ CLA (???)





## **Objective**

To determine the chemical composition of milk from grazing cows supplemented with different levels of licury oil (*Syagrus coronata* (Martius) Beccari) in the concentrate





Experimental Farm Federal University of Bahia (UFBA)

Brazil

Exp. lasted 84 days
17 days for adaptation and 4 days for
the collection/period
16 dairy cows Holstein x Gir

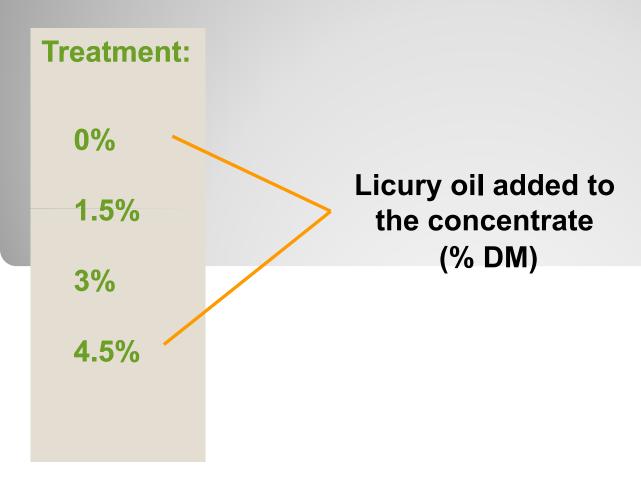






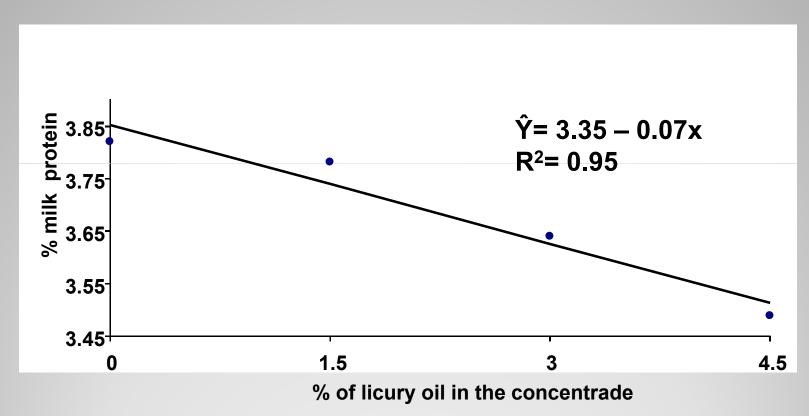
Table 1. Ingredients and chemical composition of diets (%DM)

Ingredient	Treatment			
	0.0	1.5	3.0	4.5
Ground corn	79.16	77.34	75.53	73.71
Soybean meal	17.84	18.16	18.47	18.79
Urea	3.00	3.00	3.00	3.00
Licury oil	0.00	1.50	3.00	4.50
Chemical composition				
Crude protein	23.00	23.00	23.00	23.00
Ether extract	3.43	4.87	6.30	7.70
TDN	78.29	79.66	81.04	82.41

- Four 4x4 Latin Square design;
- •The data were evaluated by a linear regression analyses;
- •Milk composition was analyzed for protein, fat, and total solids.



Milk Protein:

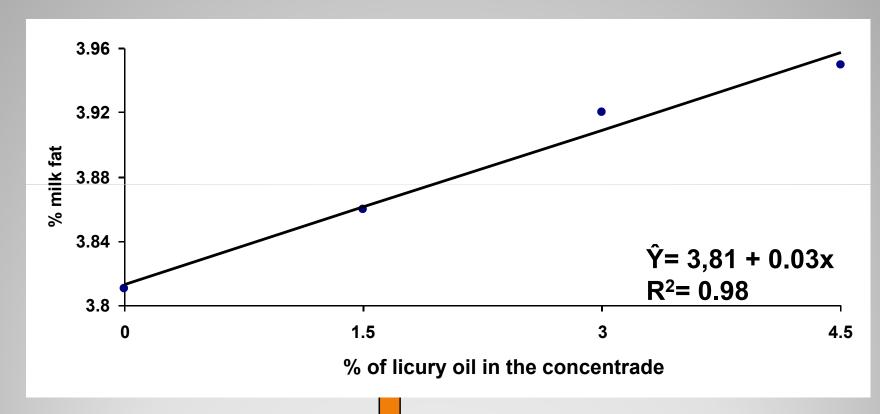


- SANTOS et al. (2001);
- EIFERT et al. (2006);
- FLOWERS et al. (2008);



#### Results

Milk fat



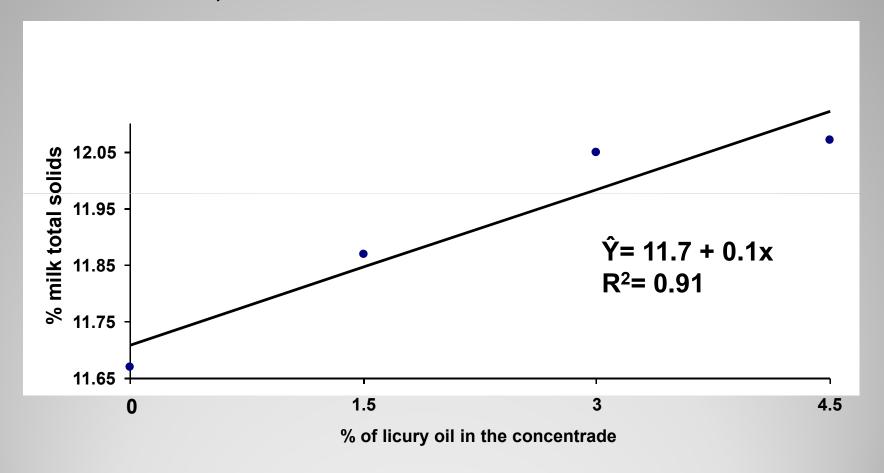
EIFERT et al. (2006);



• FLOWERS et al. (2008);

#### Results

Total Solids;



- DUARTE et al. (2005);
- LÓPEZ et al. (2007);

#### Conclusions

Licury oil addition to grazing dairy cows may be profitable for producers when milk price favors fat and total solids rather than milk protein.





# Thank you!

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