



A New Method of Increasing Milk Production From Cows



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Introduction

Domesticated cows are of many varieties. There are those variety that is hybrid; these varieties produces much more milk than the local breed (varieties) of cows. This study was aimed at investigating a new method of increasing milk production I local variety of cows. This is because these cows produce few milk almost less than a litre per one cow during the morning and less than one litre per one cow during the evening..

So the study was conducted to investigate how the milk production can be increased in the local breed of cows by using local/natural fruits from the tree called MWICHA in Sukuma Language. The study was conducted by using experimental methods and the data analysis and interpretation was done by using pie charts and bar graphs.

Method

These are the expectations that might occur during the experimentation. There are two of them.

- Does the Mwicha fruit juice increase milk production in local breeds of cow?
- To what extent these fruits are effective?

This part of this report covers the materials used in experiment and the method of this investigation.

Materials

The materials that were involved in this experimentation were;

- Mwicha fruits
- Mortar and pestle
- Filter
- Bucket
- Water

The research was conducted by using experimentation method. The type of experiment used in this investigation was controlled experiment. A controlled experiment is the type of experiment where comparison is made among experimental group and the control group. These two groups are the same except for one variable; independent variable. Because this experiment was conducted in natural environment of cows, it is called Field Experiment. This this experimentation, there were two types of variables; (a) milk production (dependent variable – the factor that was observed to see if it changes/affected by independent variable) and (b) mwicha fruit juice (independent variable – the factor that was changed/manipulated to see if it cause/affects dependent variable (milk production)).

The study involved two groups of cows;

Results

(a)Summary of results

Cows in the control groups (those which were not provided with mwicha fruit juice) when milked they gave about half a litre of milk each during the morning and during the evening for all five consecutive days. Cows in the experimental groups (those which were supplied with mwicha fruit juice); when milked; gave the following results;

The results showed that Mwicha fruit juice has direct effect in the increase of milk production in local breed of cows. This is because those cows which were provided with mwicha fruit juice produced large amount of milk compared to those which were not supplied with mwicha fruit juice.

The difference in the amount of milk to those which were given mwicha fruit juice during the morning and evening is due to the fact that, during the evening the cows were taken to grazing without their young cows; so when milked during the evening there were large amount of milk compared to morning because they sleep with their young ones which suck during the night.

This is to say that, if the cows will be given Mwicha fruits juice at least twice per week, they will continuously increasing milk production.

For the evening session, the following data in table below were collected.

Day	Evening session
1	1.4 liters @ cow
2	1.6 liters @ cow
3	1.8 liters @ cow
4	1.9 liters @ cow
5	2.1 liters @ cow

Table 2. Amount of milk produced for each cow in the evening session.

Day	Morning session
1	At least 1.2 liters @
2	At least 1.4 liters @
3	At least 1.4 liters @
4	At least 1.5 liters @
5	At least 1.5 liters @

Table 1. Amount of milk produced by each cow during the morning session.



Figure 1. Mwicha fruits



Mwicha Tree



Kenyata T. Kenyata Milking the Cow, from Experimental Group

Conclusion

Mwicha fruit juice increases milk production in cows. The variation from one cow to the other can be further studied. The mwicha fruit juice does not work for 100% because of the variations of milk produced from one cow and the other. So many more studies can be done on the effectiveness of these fruits in increasing milk production. The fruits may be used by livestock keepers of local breed of cows in increasing milk production because it works somehow even though it is not 100%.

References

www.thoughtco.com

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