EFFECT OF BETAINE IN MILK PRODUCTION OF LACTATING BUFFALOES

ARMIE ALIGA MARTINEZ

An undergraduate thesis presented to the Faculty of the Department of Animal Science,
College of Agriculture, Central Luzon State University in partial
fulfilment of the requirements for the Degree of
Bachelor of Science in Agriculture

BACHELOR OF SCIENCE IN AGRICULTURE
(ANIMAL SCIENCE)

JUNE 2017

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BIOGRAPHICAL SKETCH

On the 17th day of April 1996 the author, ARMIE ALIGA MARTINEZ, was born in Aliaga, Nueva Ecija. She is the eldest among the children of Mr. Artemio S. Martinez and Mrs. Michelle A. Martinez.

The author obtained her primary education from Sto. Rosario Elementary School in year 2009. She finished her secondary education in Central Luzon State University (CLSU) Laboratory High School-Bibiclat in year 2013.

She took Bachelor of Science in Agriculture, major in Animal Science with Dairy Production as her field of specialization at CLSU. During her days in CLSU, she became a member and elected historian of the Society of Animal Science. Fortunately, she was given an opportunity to do her undergraduate thesis that focused on the effect of betaine on milk yield of lactating buffaloes in the PCC-National Head Quarters and Gene Pool.

ACKNOWLEDGEMENT

The author would like to express her sincere and profound gratitude to all those who in one way or another greatly contributed to the success of her study.

First and foremost, to our Almighty God, for the unconditional love, blessings and for giving her the perseverance, creativeness and skillfulness.

The author would like to give her gratitude and appreciation, and also offers this piece of work to her parents, Mr. Artemio S. Martinez and Mrs. Michelle A. Martinez, for their sacrifices, love, care financial and moral support.

To her adviser, Dr. Ernesto P. Garillo for sharing his knowledge, undeniable support from technical to moral aspect, and for editing this piece of work; to her co-adviser; Dr. Daniel L. Aquino and Director of PCC-CLSU for accommodating her as his advisee and for giving her the opportunity to do her undergraduate thesis; Mr. Jamal James D. Manlapig, her critic, for his invaluable support and supervision during the conduct of the study and the actual production of this paper; Ms. Joice V. San Andres for her time and patience on checking this manuscript; Mr. John Closter F. Olivo for the statistical analysis.

To the Department Chairperson, Dr. Irene J. Domingo and to all the faculty members and staff of the Department of Animal Science for sharing their knowledge and skills; to the Dean of the College of Agriculture, Dr. Ernesto A. Martin for the approval of this manuscript,

To Dr. Cyril P. Baltazar and Mr. Reynald D. Amido of the PCC who gave advice and technical information during the conduct of the study.

To the responsible support staff, kuya Ricky, kuya Carlo, kuya Freddie and to all the workers of PCC, National Headquarters and Genepool for their hospitality, kindness, concern for her during her stay in the PCC.

To the Acting director of the Small Ruminant Center, Mr. Neal Del Rosario and staff, for allowing her to use their facility.

To the author's classmates who showed concern and support during the conduct of the study.

Acknowledgement is also extended to those individuals whose names were not mentioned but in one way or another helped in the fulfillment of this piece of work.

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ABSTRACT

A total of 8 Murrah buffalo on their first stage of lactation with apparently similar milk yield from the project record were used in the study to determine the effect of betaine on milk yield and milk components. The treatments were randomly assigned to the buffaloes with 4 replicates per treatment. The diets were basal diet without Betaine (BD), and BD with 30 g Betaine (BD + FA).

Results disclosed that the milk production of the dairy buffaloes fed BD + FA in the diet had numerically higher amount of production on the 3-month study period. Statistical analysis showed no significant differences between the average milk production throughout the duration of the study. The average milk nutrient components of the milk of dairy buffaloes such as fat, protein, solid non fat and total solid did not show statistical differences.

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[1]Undergraduate thesis manuscript presented in partial fulfillment of the requirements for graduation for the degree of Bachelor of Science in Agriculture major in Animal Science, Central Luzon State University, Science City of Muñoz, Nueva Ecija conducted at Philippine Carabao Center, National Gene Pool under the supervision of Dr. Ernesto P. Garillo and Dr. Daniel L. Aquino with Research Contribution No. CA-02-15-0006

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