

# **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)**

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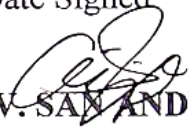
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## **BIOGRAPHICAL SKETCH**

On the 17<sup>th</sup> 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.

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**ARMIE ALIGA MARTINEZ**

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# **EFFECT OF BETAINES IN MILK PRODUCTION OF LACTATING BUFFALOES<sup>1</sup>**

**by**

**ARMIE ALIGA MARTINEZ**

## **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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