EARLY LAY PERFORMANCE OF HENS FED DIET WITH ENZYME COCKTAIL

MAE ANGELINE T. VALDEZ

An undergraduate thesis manuscript presented to the faculty of the Department of Animal Science, College of Agriculture in partial fulfillment of the requirements for the degree

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(ANIMAL SCIENCE)

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by

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BIOGRAPHICAL SKETCH

The author, Mae Angeline Tolentino Valdez was born on June 17, 1997 at Talavera, Nueva Ecija. She is the youngest of the two children of Mr. Benedicto S. Valdez and Mrs. Leonora T. Valdez.

She finished her elementary education at Bacal 1 Elementary School, Talavera, Nueva Ecija and completed her secondary education at Muñoz National High School, formerly Muñoz Provincial High School in Science City Muñoz, Nueva Ecija.

Her aspiration to continue her studies was fulfilled at Central Luzon State University. She pursued Bachelor of Science in Agriculture major in Animal Science with Poultry Production as her specialization. To further enhance her knowledge in research, she pursued thesis as her undergraduate requirement.

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MAE ANGELINE TOLENTINO VALDEZ

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ABSTRACT

A feeding trial using 176 layers (Lohmann, 20 weeks old) were used to assess the effect of an enzyme cocktail (EC) containing carbohydrases, phytase, lipase and protease, on production performance, egg quality and income over feed cost (IOFC) for 7 weeks. The following diets were tested: a positive control (PC) diet which is a standard layer diet and a negative control diet, with less AME (60 kcal/kg) and digestible amino acid (4%) than the PC. A further two dietary treatments were formulated by supplementing each control diet with an EC.

Results of the study disclosed no significant ($P>0.05$) effects of EC addition on PC and EC diets on egg production performance, egg classification and egg quality. Incremental net benefit analysis revealed economic advantage of EC inclusion in diet with reduced AME and digestible amino acids.

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