



## DEVELOPMENT OF BIO-ECONOMIC MODEL FOR THE EVALUATION OF THREE GENOTYPIC GROUPS OF PHILIPPINE NATIVE CHICKEN

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**ABSTRACT** – A bio-economic model was developed using Structural Thinking Experiential Learning Laboratory with Animation (STELLA) Research Version 4.0.1 to determine and compare the productivity and profitability of Paraoakan, Bolinao and Banaba genotypic groups of Philippine native chicken production model of a 5:1 hen to rooster mating ratio under natural incubation, with feeding and semi-confinement scheme.

Model simulations revealed that Bolinao genotypic group had the most number of chicks laid but Paraoakan and Banaba groups had more marketable chickens after 18 weeks of rearing the chicks. The total liveweight and gross income realized by Paraoakan and Banaba groups were similar but were greater than those realized by Bolinao group. The net income derived from Paraoakan group was greater than those from Banaba and Bolinao group suggesting the advantage of Paraoakan over the two other genotypic groups.

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