EFFECT OF ADDITION *Averrhoa bilimbi* JUICE AS AN ACIDIFIER UTILIZATION IN FEED OF LAYING HENS PERFORMANCES

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ABSTRACT

This research was conducted at the Laboratory of Animal Nutrition and Food Brawijaya University, Faculty of Animal Husbandry for the analysis of the feed content. Field research was conducted in the Wringin anom village, Poncokusumo, Malang in July 23 until August 20, 2013. The purpose of this study was to determine the effect of *Averrhoa bilimbi* juice with different concentrations on production performances in terms of feed intake, Hen Day Production, feed conversion and Income Over Feed Cost. The research materials were 120 Lohmann Brown laying hens with age of 52 weeks. The method used in this study was experiment in a Completely Randomized Design with 4 treatments 6 replications. The treatments included feed without addition of *Averrhoa bilimbi* juice (P0), addition of *Averrhoa bilimbi* juice of 1.5 % (P1); 3 % (P2); 4.5 % (P3). Variables observed were feed intake, Hen Day Production, feed conversion and Income Over Feed Cost. Data obtained from the four tests are processed with the help of Microsoft Excel. After an average of data obtained, followed by statistical analysis using analysis of variance (ANOVA). If obtained different results or significant, then followed by Duncan's Multiple Range Test
(DMRT). The result showed that the additional of *Averrhoa bilimbi* juice no significantly effect (P>0.05) feed conversion but significantly (P<0.05) influenced feed intake, Hen Day Production, and Income Over Feed Cost of laying hens. It is suggested to keep *Averrhoa bilimbi* juice in the refrigerator to make it easier and efficient in time without affecting the quality of juice.

Keywords: *Averrhoa bilimbi* juice, Lohmann brown, Layer, Production performance, Acidifier