

## ABSTRACT

Widayati, wiwik. 2011. The Effectsof theAddition of Broiler Chickens Feet Flour as the Subtitution of Fish Flour in the Ration on the Value of Arabian Chicken (*Gallus turcicus*) Egg Protein, Egg Fat and Egg Weight. Thesis. Departement of Biology, Faculty of Sciences and Technology, The State Islamic University of Maulana Malik Ibrahim Malang. Supervisor I: Kiptiyah, M.Si. Supervisor II: Amalia Fitri Andriani, M.Si.

Keywords: Arabian chickens, broiler chicken feet flour, egg protein, egg fat, and egg weight.

Arabian chicken (*Gallus turcicus*) is a type of chicken that produces eggs highly enough which is useful for human viability. Broiler chicken feet flour contain of some active substances there are methionin and linoleat which assured can increase the value of egg protein and egg wight and also can decrease the value of egg fat of arabian chicken (*Gallus turcicus*).

This research is an experimental research that uses 20 arabian females chickens aged 1 years. This study uses a completely randomized design (RAL) by 4 repetition and 5 treatments. If the calculation results differ significancely, it will be conducted further tests with BNT 0.05. The treatment used is by the addition of broiler chicken feet flour by concentration 4%, 6%, 8% and 10%.The content analysis of protein value and egg fat is conducted in the Muhammadiyah University Malang while the weighing of the egg is done in the hannery. The data of the research consist of value protein, egg fat, and egg weight.

The results of the research showed that the addition treatment of broiler chicken feet flour significantly affect on the increase of egg protein value and egg fat of Arabian chickens. Those significant effects are because of the protein value and fat value of the broiler chicken feet flour whice are added while same factor has no effect on increasing the egg weight. It is related to the mentioned genetic factor which playing a part in forming the egg weight. The egg weight of Arabian chickens are 39-43 g maximally. In this research the egg weights which resulted are about 40,64 until 43,26 g.