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KEY WORDS : DRIED GROUND GOLDEN APPLE SNAIL/FISH MEAL/BROILER.

APICHART CHONPRACHR : UTILIZATION OF GOLDEN APPLE SNAIL (*Pomacea canaliculata Lamarck*) DRY MEAT AS A SUBSTITUTE FOR FISH MEAL IN THE BROILER'S FEED. THESIS ADVISORS : VIROJ KITIKOON, D.V.M., Ph.D., WARANYA WONGWIT, Ph.D., SUNCHAI SUTIPHANVIHARN, M.Sc., SOMSAK PARAJUM, M.Sc., NUKUN SANGPHAN, M.Sc., 66 p. ISBN 974-664-708-3

The objective of the study was to use dried ground golden apple snail (MDGGAS) as a replacement for fishmeal for broilers. The study was conducted with 225 broilers which were 28-45 days old at the beginning of the 17 day study period. Broilers were fed in housing located at The Animal Husbandry Faculty, Phayao College of Agriculture and Technology. A completely randomized design was used during the study. Five groups of fifteen broilers were fed one of the five formulas of feed. The experiment was conducted three times. The five formulas were composed of MDGGAS at levels of 0, 25, 50, 75 and 100 per cent.

The results indicated that group 1 and 3 had higher feed intake per/body per/day, than any other group. According to the average daily gain and feed conversion ratio, the broilers of group 1 were the most effective and group 2 was the second most effective group. The cost of increasing the weight of one broiler by 1 Kilogram was the lowest in group 2 followed by group 1. When comparing margins between the groups group 1 had the best margin and group 2 the next best margin. It is quite possible to use MDGGAS as a source of protein in broiler feed, but MDGGAS should not be substituted at a level over 25 percent because group 2 had similar results in terms of growth performance and margin with group 1.