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IDENTIFICATION OF SUITABLE METHODS FOR
HATCHING IN PLACE OF SOPHISTICATED INCUBATOR

BY

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A RESEARCH REPORT
SUBMITTED IN PARTIAL FULFILLMENT OF THE
REQUIREMENTS FOR THE ADVANCED COURSE

IN

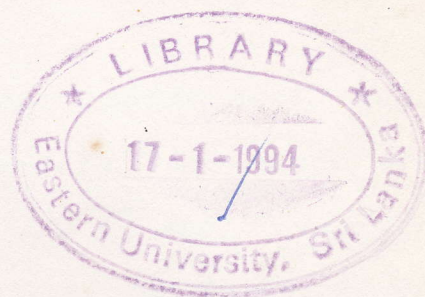
ANIMAL SCIENCE

FOR

DEDICATED TO MY PARENTS

THE DEGREE OF THE BACHELOR OF SCIENCE IN AGRICULTURE

FACULTY OF AGRICULTURE
EASTERN UNIVERSITY, SRI LANKA
CHENKALADY

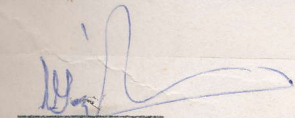


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ABSTRACT

The study attempted to find out the feasibility of using low cost techniques employed in incubation of eggs by using different methods, as compared with sophisticated incubator, at the Eastern University, Animal Science Laboratory during the period of May in 1993.

Locally available, low cost materials (paddy husk, paddy straw, coir dust, and open air) were used in this study with varying sets of egg numbers 9, 1st circle; 15, 1st and 2nd circles; 21, 1st 2nd and 3rd circles. The ideal conditions for hatching were provided by maintaining temperature $37.7^{\circ}\text{C} \pm 0.7^{\circ}\text{C}$, relative humidity $65 \pm 5\%$, turning 3 times/day, and normal air ventilation.

The study revealed that there was no significant difference ($P > 0.05$) in hatchability with varying number, and there was significant difference ($P < 0.05$) in hatchability in varying media. The Mean hatchability in paddy husk, paddy straw, coir dust, open air and incubator were 68.7 percent, 89.2 percent, 69.9 percent, 83.1 percent, 84.3 percent respectively. Among these, open air and straw could be utilized by the peasant farmers to meet the requirement of day old chicks with low cost.

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