DEVELOPING A COMPUTERISED DAIRY HERD MANAGEMENT SYSTEM

MUHAMMED BASHEER
I.D.No.MVM 99007(AEC)

Thesis submitted in partial fulfillment of the requirements for the degree of

MASTER OF VETERINARY SCIENCE

in

ANIMAL HUSBANDRY ECONOMICS

to the

Tamil Nadu Veterinary and Animal Sciences University
Chennai – 600 051

DEPARTMENT OF ANIMAL HUSBANDRY ECONOMICS
MADRAS VETERINARY COLLEGE
TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY
CHENNAI – 600 007

2001

CERTIFICATE

This is to certify that the thesis entitled **"Developing a Computerised Dairy Herd Management System"** submitted in partial fulfillment of the requirements for the degree of **Master of Veterinary Science** in **Animal Husbandry Economics** to the **Tamil Nadu Veterinary and Animal Sciences University, Chennai** is a record of bonafide research work carried out by **Mr. Muhammed Basheer** under my supervision and guidance and that no part of this thesis has been submitted for the award of any other degree, diploma, fellowship or other similar titles or prizes and that the work has not been published in part or in full in any scientific or popular journal or magazine.

Place: Chennai – 600 007
Date: 20-08-2001

(M. THIRUNAVUKKARASU)
CHAIRMAN

Approved by

CHAIRMAN: **(M.THIRUNAVUKKARASU)**

MEMBERS : 1. **(K.N. SELVAKUMAR)**

2. **(S. N. SIVASELVAM)**

EXTERNAL EXAMINER:

ABSTRACT

Title	:	**DEVELOPING A COMPUTERISED DAIRY HERD MANAGEMENT SYSTEM**
Name of the student	:	**MUHAMMED BASHEER**
Degree for which thesis is submitted	:	M.V.Sc. (Animal Husbandry Economics)
Name and address of the chairman	:	**Dr. M. THIRUNAVUKKARASU** Professor and Head Department of Animal Husbandry Statistics and Computer Applications Madras Veterinary College Chennai - 600 007
Year and University	:	2001, Tamil Nadu Veterinary and Animal Sciences University, Chennai - 600 051

The study was conducted at Livestock Research Station, Kattupakkam to analyse the existing system of dairy herd management, problems encountered in the existing system and to develop a computerised herd management system, usable in Indian farms.

A computerised dairy herd management system was developed using the data collected from the farm. The enterprise edition of Visual Basic 6.0 was used as front end, while MS Access - 97 was used as back end for the package developed.

Manual record keeping has been followed in the farm for analysing the performance and managing short term and long term activities. Most of the records were repetitive and narrative in nature. The voluminous nature of data and lack of integrating records led to poor decision-making in many areas of dairy farming.

The dairy herd management system developed under this study is structured under a main menu with various sub menus such as Status, Health, Production, Reproduction, Feeding, Reminder and Report. The status sub menu is segmented into Cow, Heifer, Calf, Bull and Exit options. The Health sub menu has Illness, Tests, Treatment, Prevention and Exit options. The Production sub menu is divided into milk, weight and weaning for recording milk yield, weight measurement, calculating average gain in daily body weight from birth and weaning details, while the reproduction sub menu is divided into oestrous, service and calving.

Reminder menu is designed to alert the farmer regarding various activities due for a particular week. This sub menu is also used to obtain the checklists of animals due for vaccination, treatment, deworming, service, calving, and dry off. Report sub menu is designed for obtaining the current status of animals and breeding status of individual animals. All the recorded information under different tables are displayed by selecting the reports option for viewing the records of pregnant animals, non pregnant animals, heifers and cows.

Key words: Dairy Herd, Management, Menus