

Project Title: Development of Information Management System for Commercial Broiler and Layer Farm data.

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This national consultative workshop on Development of Commercial Farm Data Recording Sheets was arranged at the eve of World Egg day (11-10-2013). This was conducted to introduce the concept of data recording and to discuss the paper base data sheets prepared in this connection to improve profitability and technical efficiency of farms. The 1st Consultative Workshop on Development of Commercial Farm Data Recording Sheets was held in University of Agriculture Faisalabad on 11th October 2013 and the workshop was successful in attracting a group of dedicated farmers, stake holders, researchers and students. During this period broiler and layer farmers were visited to have discussions regarding the proposed software system and their requirement and willingness to participate in the project. Broiler farmers were willing to participate with some hesitation with reference to sharing of data. Moreover their main concern was over production. The farmers were interested in to have a system which may inform them about the status of broiler breeder being raised and the number of day old broiler chicks produced. The status of broiler chicks being raised at the farms and market demand should be compared to assess the demand and supply situation so that over production of broilers can be controlled. During the second year of the project, the datasheets for layer flock management were developed finalized and finally printed "Layer Flock Control System". The database was developed keeping in view the feedback from the broiler farmers. Layer flock management system data entry manual was prepared, printed and distributed to layer farmers. The project team sent few data books regarding broiler and layer farmers to some companies who were also dealing with breeder flocks such as Charoen Pokphand Pakistan (Pvt.) Limited, Islamabad Poultries and Ghazi Brothers etc. the feedback obtained from these companies encouraged the project team to include breeder flock control system in this project, however due to lack of time and budget it was decided not to print breeder flock control system manual. The central database contains the tables to record data regarding all three types of birds namely broiler, layer and breeder. Furthermore the project team decided to offer five different systems to the farmers under the main umbrella of Poultry Information Management System. Poultry Information Management System has been developed in modular approach i.e. the farmer can add the functionalities by adding new modules. This development process was further divided to three steps in order to deliver something to the farmers' and keep the development process simple. The steps of this system were as under:

- Step 1.** Development of Broiler then Layer and then Breeder Flock Information Management System.
- Step 2.** Development of Expert system module for Broiler then Layer and then Breeder Flock Information Management System
- Step 3.** Development of prediction system based for Broiler then Layer and then Breeder Flock Information Management System.

In order for timely completion of the Poultry Information Management System development of all three systems in step 1 was started and Broiler Flock Information Management System was complete and debugging process was continued while the input forms for layer and breeder flock information systems are developed and coding work continued. During the third year of the project the farmers involved in the project were not only trained in two hands' on training workshops to train the farmers regarding the developed software (Broiler Flock Control System and Layer Flock Control System) and the DVD's were distributed among the farmers for evaluation. The project was extended for six month. Later on the project was shifted to UAF Sub-Campus Toba Tek Singh after the transfer of the P.I., the last Hands' on training workshop was arranged at UAF Sub-Campus Toba Tek Singh where Poultry Management System with various modules was distributed.

Various modules offered in Poultry management system were developed in following modules keeping in view farmer types:

1. Broiler Flock Control System
2. Layer Flock Control System
3. Breeder Flock Control System
4. Broiler & Layer Flock Control System
5. Broiler & Breeder Flock Control System
6. Layer & Breeder Flock Control System
7. Broiler, Layer & Breeder Flock Control System

