



**Fayoum University
Faculty of Agriculture**

Knowledge and Performance of Poultry producers for Farm Management Skills in Fayoum Governorate

By

Ahmed Hussein Eid Abdelwanis

A Thesis Submitted in Partial Fulfilment
Of Requirements for the
Master Degree
In Agricultural Sciences
(Agricultural Extension)
Faculty of Agriculture
Fayoum University
2024

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ABSTRACT

The study primarily aimed to identify the knowledge and performance of poultry producers in the field of agricultural management skills. This was achieved through the following specific objectives: determination characteristics of the respondents, identifying agricultural information sources relied upon by the respondents in obtaining their farm management information, determining both of respondents' knowledge and performance level determining influence degree of independent variables on the knowledge performance level of respondents in the field of agricultural management skills, identifying differences in the knowledge and performance of respondents among different sizes of poultry farms, and recognizing problems faced respondents in poultry production from their point to view and their suggestions solutions.

Study was conducted in Fayoum Governorate, Fayoum and Senours as they are the largest districts in the governorate in relation to number of foreign broiler farms. A stratified random sample of these farms was taken, which representing 111 farms.

Results showed that 76.6% of the respondents had a high level of overall knowledge of agricultural management skills related to poultry breeding and production, while 18% had an average level of knowledge, and 5.4% had a low level of knowledge. Additionally, the results indicated that 48.6% of the respondents had an average overall performance level in agricultural management skills related to poultry breeding and production, compared with 28.8% had a high-performance level, and 22.5% had a low performance level.

Findings also indicated that the technical skills were the most known agricultural management skills related to poultry breeding and production among the respondents, followed by information management skills, with a knowledge percentage of 97.9% and 93.7% respectively. Meanwhile, risk management skills, marketing management skills, and input procurement skills were the least known among the respondents, with percentages of 81.8% and 78.7% for each skill respectively.

Results indicated that the technical skills were the most performed agricultural management skills related to poultry breeding and production among the respondents, followed by information management skills, with relative weights of 83.8% and 73.4% respectively. Meanwhile, risk management skills, marketing management skills, and input procurement skills were the least performed by the respondents, with relative weights of 54.3% and 42.6% respectively.

It also became evident that the most influential factors on the overall knowledge level of agricultural management skills were: educational level, Cosmo politeness, poultry farm size, and average income per production cycle, with the combined contribution of these four variables explaining 61.4% of variance in the dependent variable. Statistical analysis results further indicated that the most influential factors on the overall performance level of agricultural management skills were: average income per production cycle, educational level, years of experience in poultry farming, Cosmo politeness, and utilization of advisory activities, with the combined contribution of these five variables explaining 62.3% of the variance in the dependent variable.

Regarding the challenges facing the respondents in poultry farming, the results clarified that the most significant problems encountered by the respondents were: high cost of establishing poultry farms (94.4%), sharp increases in feed prices (93.7%), the spread of diseases and pests (73.9%), government importation of duty-exempt poultry and their introduction to the market at reduced prices (82%), and the lack of provision of any information related to poultry farming by agricultural advisors (66.7%).