Study on the level of knowledge and skills of the technicians at Fish Farms

Fish is considered as an important source for the animal protein, that can play an important role in this area, because of its high production and nutritious value. Egypt has huge and rich fisheries resources (natural resources and fish aquaculture). It can depend on fish as a source for animal protein that can decrease the gap between production and consumption of animal protein, specially, fish protein.Agricultural extension can play an important role for improving fish aquaculture through providing fish farmers, specially, fish farm technicians with knowledge and techniques.This study has concentrated on fish farm technician, because of their role in increasing fish production from fish farms.Hence, this study was carried out to determine the knowledge and skills levels of fish farm technicians in Kafr EL-Sheikh governorate.The objectives of this study are as follows:1-Identifying some personal and professional characteristics of fish farm technicians.2-Determining the knowledge degree of fish farm technicians Regarding the technical recommendations of fish production in Kafr EL-Sheikh governorate.Summary3-Determining the skill degree of fish farm technicians Regarding the technical recommendations of fish production in Kafr EL-Sheikh governorate.4-Determining the relationship between knowledge degree of fish farm technicians and the following independent variables: age— educational status— place of resident—experience in fish aquaculture— degree of emeritus of fish aquaculture work— farm size— feddan productivity— the degree of contact with fish resources institutions— Number of the training courses— benefits degree of training courses— attitude towards fish aquaculture— the services of agricultural extension— degree of non-formal participation— benefits degree of information sources related to fish aquaculture.5-Determining the relationship between skill level of fish farm technicians and the following independent variables: age— educational status— place of resident— experience in fish aquaculture— degree of emeritus of fish aquaculture work— farm size— feddan productivity— the degree of contact with fish resources institutions— Number of the training courses— benefits degree of training courses—attitude towards fish aquaculture— the services of agricultural extension— degree of non-formal participation— benefits degree of information sources related to fish aquaculture.6-Identifying the problems which face the technician in fish aquaculture and their suggestions to solve these problems.Summary -2-The study was conducted in Kafr EL-Sheikh governorate. The sample included 204 as a random sample of fish farm technicians. And the questionnaire by personal interview was used in data collection. Frequencies, percentages, means, simple correlation coefficient and Step-Wise analysis were utilized as statistical tools for analyzing data.The important results of this study can be summarized as follows:1-The personal and professional characteristics were:• About 51% of the respondents were between 35-45 years of age. and 43.6% didn’t obtain educational degree. The majority of respondents 94.6% reside in rural areas, 58.3% of respondents have a high experience in fish aquaculture, about 75% work full time in fish farms, 63.2% have low productivity per feddan, a majority of respondents didn’t have any connection with fish resources institutions, 94.1% didn’t obtain any training courses, 94.1% of respondents didn’t obtain any extension services, and 65.2% of respondents have a high attitude towards agricultural extension.2-The knowledge degree of respondents regarding the technical recommendations of fish aquaculture:Technical recommendations of fish aquaculture have been arrangedin descending accordind to the average degree of knowledge as follows: fish harvest 24.5

degree, fish farming and nutrition 23.6 degree, the stablishment of fish farm 22.1 degree, fish diseases 21.8 degree, and fries transportation and treatment 20.3 degree.Summary-3-3-The skill degree of respondents regarding the technical recommendations of fish aquaculture:Technical recommendations of fish aquaculture have been arrangedin descending accordind to the average degree of skill as follows: fish farming and nutrition 21.4 degree, fries transportation and treatment 19.5 degree, fish harvest 18.5 degree, the stablishment of fish farm 12.9 degree, and the service of pond bottom 11.1 degree.4-The relationship between the total knowledge degree of respondents regarding the technical recommendations of fish aquaculture as a dependant variable and the studied independent variables:The results revealed that: there is a negative and significant relationship between the total knowledge degree of respondents regarding the technical recommendations of fish aquaculture and the age. And a positive and significant relationship between the total knowledge degree of respondents regarding the technical recommendations of fish aquaculture and each of the following variables: educational status, experience in fish aquaculture, feddan productivity, the degree of contact with fish resources institutions, benefits degree of training courses, the services of agricultural extension, the degree of non-formal participation, the benefits degree of information sources related to fish and the attitude towads fish aquaculture significant level was (0.01).The results indicated that 48.1% from the variance of the total knowledge degree of respondents regarding the technical recommendations of fish aquaculture was explained by fourSummary -4:independent variables: the benefits degree of information sources related to fish, the attitude towads fish aquaculture, the degree of non-formal participation, and educational status.