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# **Status and Prospects of Implementing New Methods in Agriculture Extension in Palestine**

## **Abstract**

This study has covered the northern governorates of the West Bank. It took into consideration both agricultural extension agents and farmers, mainly in Jenin and Tulkarm governorates. A sample of both extension agents and farmers working in governmental and nongovernmental sectors has been taken. Different villages such as; Qabatiah, Birqeen, Maithaloon, Ateel and Baka Al Sharqia were covered in the survey.

The study discussed the possibility of implementing and using of the modern methods in the agricultural extension in Palestine, including the use a computers and internet by both the farmers and extension agents and how both sides make use of this new technology in their mutual relations.

The descriptive analysis method was used in conducting the study. Two well prepared questionnaire were used, one for the farmers including four different fields (Extension methods, agents provide extension to farmers, level of farmers' knowledge with new agriculture extension means and the impact of the extension means on farmers' behavior) and the other for the agriculture extension agents including three major fields (extension methods followed by the agents, means of obtaining agriculture information, and measures adapted by the agents). The reliability coefficients of both farmers and agent's questionnaires were 0.915 and 0.7021, respectively.

The study showed that a high percent of the farmers (88%) had more than 5 years experience, however, 99% of the agents were highly educated. Regarding the level of farmers' education, the study showed that about 1/3 of the sample were of secondary education or more. Sixty percent of the farmers in the sample owned more than 10 dumdums.

Regarding the extension means, the study showed that 93.3% of the extension agents from the sample preferred field visits as an extension mean. However, the study did not exhibited a significant correlation between the independent variable ( age, experience, education level, sex, and the place of work for the extension agents) and the dependent variables (extension means, methods of obtaining agricultural extension information and methods of updating agriculture extension means).

The study showed a reduction in the percentage of the extension agents who used the computer as a mean to contact the farmers (33.2%), and a low percent of agents (40.8%) using computer software in agriculture extension. It also showed that, the farmers had a low level of know how in the special extension software. The study showed that 76.4% of the farmers preferred the extension's visits as a mean of extension, with similar percent the farmers indicated that they depends on advises given to them from other farmers. In addition the study showed a significant impact of agriculture extension on farmers' behavior.

The study did not show a significant correlation between the independent farmers' variables (age, education level, experience and the area of owned land) with the dependent variable (extension means used, agents provide extension, level of the know how of the farmers with the new extension's means and the impact of extension on farmers' behavior.)

Finally, the research urged the governmental and non governmental departments and associations to take further steps to promote and implement the usage of the modern means in agriculture extension (among both farmers and extension agents)



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جدول ١,٢ المساحة المزروعة باصناف المحاصيل المختلفة في الأراضي الفلسطينية حسب المحافظة، ٢٠٠٦/٢٠٠٥ المساحة بالدينم (المصدر الجهاز المركزي للإحصاء الفلسطيني ٢٠٠٥)

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(One Way ANOVA)

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(Kruskal-Wallis Test) -

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	Chi-Square	
0.275	2.581	
0.74	0.602	
0.493	1.413	
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(Kruskal-Wallis Test) -

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	Chi-Square	
0.691	0.74	
0.446	1.616	
0.883	0.249	
0.356	2.068	

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	Chi-Square	
0.082	4.995	
0.572	1.116	
0.636	0.905	
0.4469	1.516	

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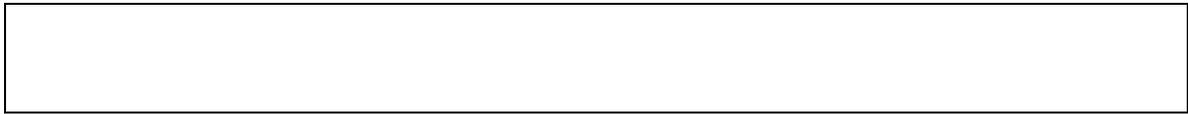
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